JAMES M. SEALS, JR. PARK - ATHLETIC RESTROOM / CONCESSION AND FIELD IMPROVEMENTS

PR-041-20

504 TEXAS STREET, MOBILE, ALABAMA 36603

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PROJECT TEAM

PROPERTY OWNER
CITY OF MOBILE
PARKS
4901 ZEIGLER BLVD
MOBILE, AL 36608
CONTACT: SHANNON MCINTYRE
(251) 208-7635 OFFICE
(251) 508-7752 CELL

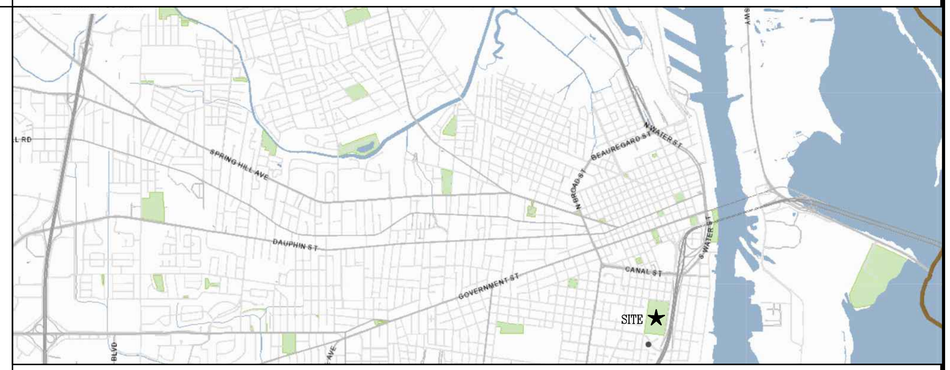
ARCHITECT
MAURIN ARCHITECTURE, P.C.
601 ST. ANTHONY STREET
MOBILE, AL 36603
CONTACT: KARRIE MAURIN, RA
(251) 690-7460 OFFICE
(850) 221-0670 CELL

CIVIL
DRIVEN ENGINEERING, INC.
8005 MORRIS HILL ROAD
SEMMES, AL 36575
CONTACT: NATHAN WILLIAMS
(251) 649-4011 OFFICE
(251) 895-4200 CELL

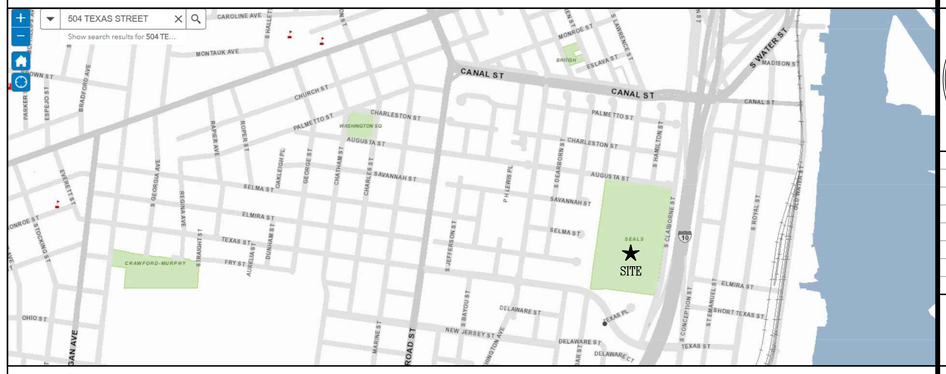
STRUCTURAL
BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
CONTACT: RUSSELL BARTON, PE
(251) 219-4942 OFFICE
(251) 689-3398 CELL

MECHANICAL, ELECTRICAL & PLUMBING
H.M. YONGE & ASSOCIATES, INC.
253 ST. ANTHONY STREET
MOBILE, AL 36603
MECH CONTACT: MATT YONGE, PE
(251) 690-7446 OFFICE
(850) 377-6107 CELL
ELEC CONTACT: ARUN T. VARGHESE, PE
(251) 434-2661 EXT.112 OFFICE
(850) 607-0094 CELL

LOCATION MAP



VICINITY MAP



MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
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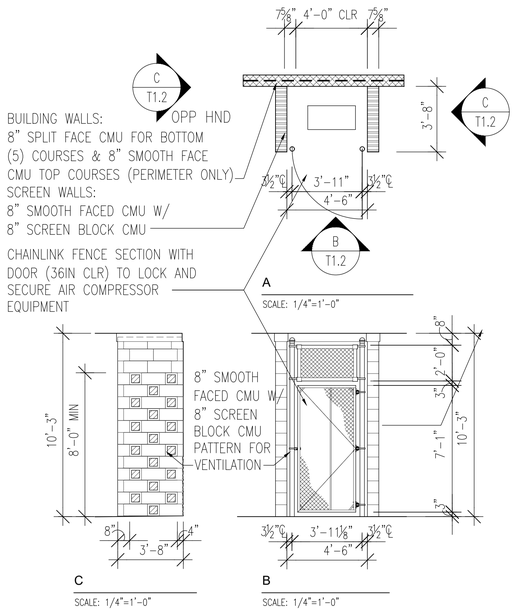
STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

T1.1

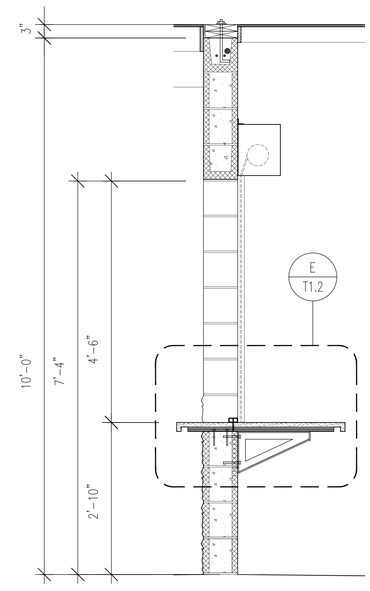
TITLE SHEET



A DOOR DTL - CHAIN LINK

SCALE: 1/4"=1'-0"

VANDALISM PROTECTION

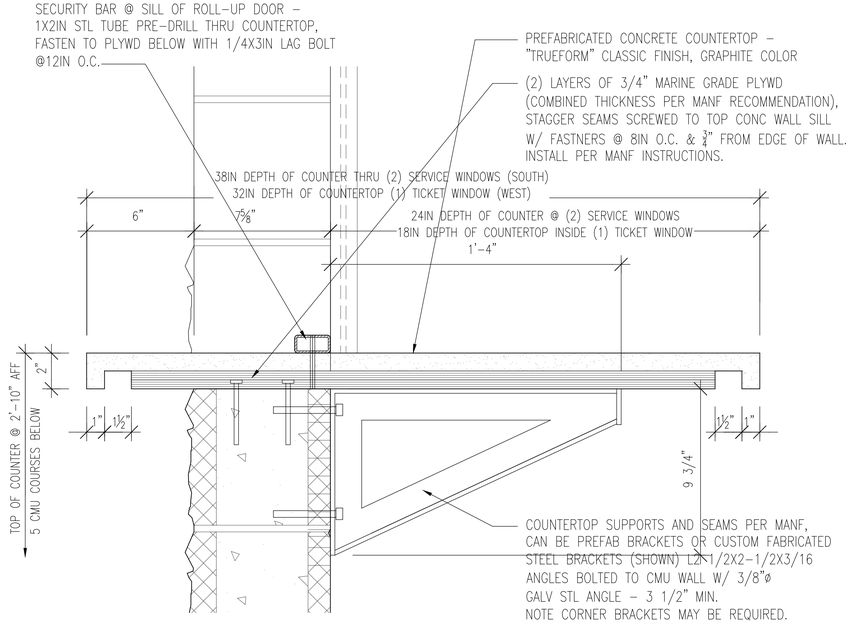


D WALL SECTION - CONCESSION SERVICE WINDOW

SCALE: 1/4"=1'-0"

1. THE CONTRACT DOCUMENTS CONSIST OF THIS SET OF DRAWINGS, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT, INTERIOR DESIGN DOCUMENTS, GEOTECHNICAL REPORT AND ANY OTHER INFORMATION WRITTEN AND MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR.
2. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED; WORK OF ANY INDIVIDUAL TRADE IS NOT CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS OR LOCATIONS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED.
4. IF DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING.
5. CONSTRUCTION TECHNIQUES, PROCEDURES, SEQUENCING AND SCHEDULING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL PENETRATIONS IN RATED CONSTRUCTION ARE TO BE SEALED WITH APPROPRIATE MATERIALS AS INDICATED BY THESE DOCUMENTS OR OTHERWISE REQUIRED BY INSPECTORS OR APPLICABLE CODES AND ORDINANCES.
7. DO NOT SCALE DRAWINGS; USE DIMENSIONS ONLY. ALL DIMENSIONS MUST BE VERIFIED ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
8. IT IS THE INTENT OF THE DOCUMENTS TO PROVIDE A COMPLETELY WATERPROOF BUILDING ENVELOPE. REPORT TO ARCHITECT ANY CONDITION THAT WOULD PREVENT THIS IMMEDIATELY.
9. COORDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, REGISTERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECTURAL DRAWINGS.
10. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER OUTLETS.
11. ALL BLOCKING IN CONTACT W/ CONCRETE OR CMU TO BE FIRE RETARDANT PRESSURE TREATED. ALTERNATE BLOCKING USE MINIMUM OF 16 GAUGE X 8" MATERIAL SHALL BE USED WITH METAL FASTENERS.
12. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.
13. ALL ABBREVIATIONS, MATERIALS AND SYMBOLS IN LEGENDS MAY OR MAY NOT BE USED.
14. FOLLOW MANUFACTURER'S INSTRUCTION SPECIFICATIONS, DETAILS AND INSTRUCTIONS FOR ALL CONSTRUCTION MATERIALS AND SYSTEMS.
15. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS, DETAILS & SPECIFICATIONS FOR ALL CONSTRUCTION MATERIALS & SYSTEMS.
16. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, IDENTIFYING & COORDINATING EXISTING UTILITIES PRIOR TO ANY WORK.
17. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE & BECOMING FAMILIAR WITH THE WORK SCOPE. ANY QUESTIONS OR CONFLICTS ARE TO BE ADDRESSED TO THE ARCHITECT PRIOR TO THE START OF ANY WORK. ALL WORK METHODOLOGY & SEQUENCING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. THESE CONSTRUCTION DOCUMENTS COMPLY WITH THE 2012 IBC AS REQUIRED.

1 GENERAL PROJECT NOTES



E DETAIL PRE-FAB COUNTER

SCALE: 3"=1'-0"

TYPICAL SERVICE WINDOW WITH VANDAL PROTECTION

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T1.2

PROJECT NOTES & MISC. DETAILS

BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

Revised May 2015

1. GENERAL INFORMATION JAMES M. SEALS, JR. PARK –
Name of Project ATHLETIC RESTROOM/ CONCESSION AND FILED IMPROVEMENTS
Address 504 TEXAS STREET, MOBILE, AL 36603
Proposed Use NEW RESTROOM BUILDING
Owner CITY OF MOBILE
Address 205 GOVERNMENT STREET
Phone 251-208-0000 Fax -- E-Mail --
Authorized Agent KARRIE MAURIN, RA, CSI-CDT
Address 601 ST. ANTHONY STREET
Phone 251-690-7460 Fax -- E-Mail KARRIE@MAURINARCH.COM
Contractor TO BE DETERMINED
Address
Phone Fax State License No

2. LEAD DESIGN PROFESSIONAL KARRIE MAURIN, RA

Designer	Name	License #	Phone
Architectural	KARRIE MAURIN, RA	7584	850-485-4803
Civil	AVALISHA L.S. FISHER	22182	251-649-4011
Electrical	ARUN VARGHESE	34807	850-434-2661
Fire Alarm	ARUN VARGHESE	34807	850-434-2661
Plumbing	HOWARD YONGE	14948	850-434-2661
Mechanical	HOWARD YONGE	14948	850-434-2661
Sprinkler-Standpipe			
Structural	RUSSELL BARTON, PE 17427		251-219-4942

Letter of Supervision Provided Yes X No

2.1 Special Inspections - IBC Section 1704

Building Permit Requirements: The permit applicant shall submit a statement of Special Inspections prepared by the Registered Design Professional in charge and in accordance with IBC Section 107.1. As a condition for permit issuance, this statement shall include a list of materials and work requiring special inspections by this Section, 1704.3, the inspections to be performed, list of individuals, approved agencies and firms intended to be retained for conducting such inspections.

If no, explain ____ Yes ____ No

2.2 STATEMENT OF SPECIAL INSPECTIONS

PROJECT NAME:
PROJECT ADDRESS:
PERMIT NUMBER:
PERMIT APPLICANT: PERMIT APPLICANT
ADDRESS:
OWNER:
OWNER ADDRESS:

REGISTERED DESIGN PROFESSIONALS:

ARCHITECT:
GEOTECHNICAL ENGINEER:
STRUCTURAL ENGINEER:
MECHANICAL ENGINEER:
ELECTRICAL ENGINEER:

A Statement of Special Inspections shall be submitted as a condition for the issuance of a permit in accordance with the International Building Code, Chapter 17. The Statement of Special Inspections shall include a Schedule of Special Inspections for the above-referenced project, as well as identify the individuals, agencies, or firms intended to be retained for conducting the Special Inspections.

The Special Inspector (s) shall keep records of all inspections and shall furnish interim inspection reports to the building official and to the registered design professional in responsible charge and at a frequency agreed upon by the permit applicant and building official prior to the start of work. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and the registered design professional in charge prior to the completion of that phase of the work. A Final Report of Final Inspections documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted by each agent at the completion of that phase of work.

The minimum frequency of interim report submittals shall be not less than:
Monthly Bi-Monthly Upon completion Per Attached Schedule

The Special Inspection Program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety, means and methods of construction are solely the responsibility of the Contractor.

Owner's Signature Date

Building Official Signature Date

2.3 SCHEDULE OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SCHEDULE

CODE SECTION	SPECIAL INSPECTION	REQUIRED YES	REQUIRED NO	FREQUENCY OF INSPECTION CONTINUOUS	FREQUENCY OF INSPECTION PERIODIC
1705.2	STEEL CONSTRUCTION				
1705.3	CONCRETE CONSTRUCTION				
1705.4	MASONRY CONSTRUCTION				
1705.5	WOOD CONSTRUCTION				
1705.6	SOILS				
1705.7	DRIVEN DEEP FOUNDATIONS				
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS				
1705.9	HELICAL PILE FOUNDATIONS				
1705.10	WIND RESISTANCE				
1705.11	SEISMIC RESISTANCE				
1705.12	DESIGN & QUALIFICATION FOR SEISMIC RESISTANCE				
1705.13	SPRAYED FIRE-RESISTANT MATERIAL				
1705.14	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS				
1705.15	EXTERIOR INSULATION & FINISH SYSTEMS				
1705.16	FIRE RESISTANT PENETRATIONS &JOINTS				
1705.17	SMOKE CONTROL				

3. GENERAL CODE DATA

3.1Building and Fire Codes used in design (Check all that apply)

X 2012 International Building Code
X 2014 National Electrical Code
X 2012 International Mechanical Code
2012 International Residential Code
2012 International Residential Code
X ASHRAE 90.1
X 2012 International Plumbing Code
2012 International Property Maintenance Code
2012 International Fire Code
2012 International Existing Building Code
2015 International Energy Conservation (Latest Edition Code Adopted by State of Alabama)

3.2 Construction Description

X New Construction ___ Renovation (Existing Bldg.) ___ Tenant Build-out
___ Alteration ___ Addition ___ Change of Occupancy

Scope of Work - Building: CONSTRUCT NEW RESTROOM FACILITY TO INCLUDE RESTROOMS AND CONCESSION ROOM WITH SERVICE WINDOWS AND ELECTRICAL CLOSET AND PLUMBING CHASE. FACILITY SHALL BE DESIGNED TO MEET ADA/ ABA REQUIREMENTS.

Scope of Work - Electrical: NEW LIGHTING AND POWER SUPPLY & DISTRIBUTION THROUGH-OUT NEW SECURITY CAMERA SYSTEM PER CITY SPECS.

Scope of Work - Mechanical: NEW EXHAUST MECHANICAL COMPLETE IN EACH RESTROOM SPACE. NEW A/C IN CONCESSION AND ELECTRICAL ROOM ONLY. INSULATION IN CEILING AND WALLS OF THOSE ROOMS AS WELL AS THE PERIMETER OF THE BUILDING.

3. GENERAL CODE DATA (CONT'D)

Scope of Work - Plumbing: NEW PLUMBING SUPPLY AND SEWER COMPLETE

Scope of Work - Energy Conservation: N/A

Scope of Work - Fire: NEW FIRE HYDRANT INSTALLED ADJACENT TO THE NEW BUILDING

3.3 Existing Buildings

The building will remain in operation during construction ___Yes X No

If yes, add provisions for rigid safety barriers and dust barriers to protect the public during construction in accordance with the applicable provisions of IBC Chapter 33. Yellow safety tape not acceptable.

3.4 Renovations

Is the work in this building or space a change of occupancy? ___Yes X No

3.5 Historic buildings

This building is a Historic Building ___Yes X No

3.6 Compliance Alternatives- (IBC Section 3412) X

Provide building evaluations when existing building does not meet current codes and renovations will not meet all requirements of current building code. Provide evaluation of existing building and a second evaluation reflecting those design features chosen by the Architect/Engineer to give the building a positive score for fire safety, means of egress, and general safety. Call Chief Building Inspector if you are not sure whether evaluation is required or not. Include Summary sheet (Tables in 3412) on drawings including applicable calculations.

4. BUILDING DATA

Construction Type ___ IA ___ IB ___ IIA X IIB ___ IIIA ___ IIIB ___ IV ___ VA ___ VB
Mixed construction X No ___ Yes ___ Types ____
Sprinklers X No ___ Yes ___ Partial
System Type ___ 13 ___ 13R ___ 13D
Standpipes X No ___ Yes ___ Wet ___ Dry Class ___ Combined
Building Height 14 Feet 1 Number of Stories ___ Unlimited (IBC 507)
Mezzanine: X No ___ Yes
High Rise X No ___ Yes
Atrium X No ___ Yes
Basement X No ___ Yes

5. OCCUPANCY CLASSIFICATION

___ Assembly 303 ___ A-1 ___ A-2 ___ A-3 ___ A-4 ___ A-5
X Business 304
___ Education 305
___ Factory Industrial 306 ___ F-1 ___ F-2
___ High-Hazard 307 ___ H-1 ___ H-2 ___ H-3 ___ H-4 ___ H-5
___ Institutional 308 ___ I-1 ___ I-2 ___ I-3 ___ I-4 ___ Condition
___ Mercantile 309
___ Residential 310 ___ R-1 ___ R-2 ___ R-3 ___ R-4
___ Storage 311 ___ S-1 ___ S-2 ___ High-piled
___ Utility and Miscellaneous 312
___ Parking Garage 406.2 ___ Open 406.3 ___ Enclosed 406.4 ___ Repair 406.6

5.1 Occupant Load

INTERIOR TOTAL AREA = 1,080 S.F.(100)= 10.8 = 11 PPL ASSUMED

Occupant Load/Occupancy Type = BUSINESS Total 11 PPL
Note: Include occupant load calculations for the following types of projects: assembly, educational, institutional, large complex projects, mixed occupancies, multi-story projects.

5.2 Special Occupancy: 406 and 509 N/A
___ Parking Garage 406.2 ___ Open 406.3 ___ Enclosed 406.4 ___ Repair 406.6
___ S-2 Enclosed Parking Garage w/ S-2 open parking above 510.3
___ Parking Beneath R 510.4 R-1 ___R-2 Construction Type ___IIA ___III A
___ Open parking beneath A, I, B, M and R 510.7
___ S-2 enclosed parking with A, B, M or R

5.3 Mixed Occupancy X No ___ Yes Separation ____ Hr
Exception

Identify whether you are using the provisions of Non-Separated Uses or Separated Uses by placing an "X" below by your design choice.

___ Non-Separated Mixed Occupancy (508.3)

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

___ Separated Mixed Occupancy (508.4)

Each portion of the building shall be individually classified as to use and shall be completely separated from adjacent areas by fire barrier walls or horizontal assemblies or both having a fire-resistance rating determined in accordance with **Table 508.4** for the uses being separated. For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

___ Incidental Use Areas (Table 508.2.5)

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

6. ALLOWABLE BUILDING AREAS AND HEIGHTS (TABLE 503)

6.1Allowable Area

Allowable area 23,000 Sq. Ft Actual area 1,080 Sq. Ft
Attach area increase calculations per Section 506, if applicable. For unlimited areas, provide applicable paragraph number in Section 507 _____.

6.2 Allowable Height

Allowable height 55' Ft Actual building height 14'-0" Ft
Allowable no. of stories 2 Actual no. of stories 1

7. FIRE PROTECTION REQUIREMENTS

7.1 Building Element

Building Element	Req'd Rating	UL No.*
Structural frame, columns, girders, trusses	0	--
Bearing Walls Exterior	0	--
Bearing Walls Interior	0	--
Non-bearing walls and partitions Exterior	0	--
Non-bearing walls and partitions Interior	0	--
Floor Construction: supporting beams and joists	0	--
Roof construction (Including supporting beams and joists)	0	--

Sprinkler Systems ___Yes X No ___ Partial
Sprinkler Type 13 ___13R ___13D
Standpipes ___Yes X No ___Wet ___Dry Class
Fire/Smoke Alarm ___Yes X No

7.2 Fire Rated Elements

Fire Element	Required	UL* Hourly Rating	Number
Interior Walls Bearing	0	--	--
Non-bearing	0	--	--
Ceiling-Floors	0	--	--
Beams	0	--	--
Columns	0	--	--
Ceiling-Roofs	0	--	--
Shafts-Exit	0	--	--
Shafts-Other	0	--	--
Corridor Separation	0	--	--
Occupancy Separation	0	--	--
Party/Fire Wall Separation:	N/A	--	--
Smoke Barrier Separation:	N/A	--	--
Tenant Separations:	N/A	--	--

*** Or other approved agencies**

FOOTNOTES N/A

1. All fire rated walls shall be identified on plans by hatching, shading, etc.; show legend.
2. Identify code section when using any special exceptions, etc.
   Reproduce full UL. or other approved agencies details or reproductions of rated assemblies/penetrations on the drawings.

7.3 Draftstopping

Draftstopping in floor (718.3) ___ Yes X No
Draftstopping in attic (718.4) ___ Yes X No

7.4 Distance to Property Line from Exterior Wall (Table 602)
(Site Plan/Reference Plan required)

Fire Separation Distance >30 Ft Fire Resistance Rating 0 Hrs

7.5 Life Safety Systems

Emergency Lighting:	___No	X Yes
Exit Signs:	___No	X Yes
Fire Alarm:	X No	___Yes
Smoke Detection Systems:	___No	X Yes

8. EXIT REQUIREMENTS

8.1 Exit Access

No. of exits required 1
No. of exits furnished 5

8.2 Means of egress width (1005)

Units of Exit required 4.4 inches
Units of Exit furnished 34 inches

Stair width units required ____ inches
Stair width units provided ____ inches

8.3 Diagonal Rule (1015.1)

Meets 1015.2.1 X Yes ___ No

8.4 Travel Distance (Table 1016.1)

Allowable Travel Distance 75 Ft
Actual Travel Distance (Maximum) 22 Ft

8.5 Spaces with one means of egress (1015)

For buildings with one means of egress, I have checked the occupant load and the common path of travel against the requirements of IBC 1015. X Yes ___ No.

9. LIFE SAFETY PLAN

Provided ___ Yes ___ No (If yes, Drawing No.)

10. ACCESSIBILITY (Chapter 11)

Design conforms to IBC Chapter 11 ICC A117.1-2009 . X Yes ___ No
If no, explain condition that will not allow building to be accessible.

10.1 ACCESSIBLE PARKING

Total Parking Spaces EXISTING
Total Accessible Parking Spaces
Total Accessible Van Parking

11. DESIGN LOADS

Ultimate Design Wind Speed Maps in accordance with 11609 Or ASCE 7-10

____ Risk Cat. I - 145 mph X Risk Cat. II - 159 mph ____ Risk Cat III & IV - 169 mph

Classification of Building Category/Use Group II (I, II, III, IV)

Live Load Roof 20 PSF
Attic -- PSF
Mezzanine -- PSF
Floor -- PSF

Wind Borne Debris Region (1609.1.2) NA

This building will use impact resistant glass per 1609.1.2. ___ Yes ___ No

This building will use wood structural panels per exception 1609.1.2. ___ Yes ___ No

This building will use shutters. ___ Yes ___ No

Load-Bearing Values of Soils (1610) NA

Allowable soil bearing ____ pounds / sq. ft.
Soil Report ___ Yes ___ No.

Earthquake Design (1613) NA

Seismic Design Load Controls ____ Yes X No
If seismic design controls, furnish data required in 1603.1.5.

NA **12. SPECIAL DETAILED REQUIREMENTS** N/A

I have reviewed the special detail requirements in Chapter 4 as indicated below and incorporated the provisions into my design.

REQUIREMENT		APPLICABLE (Yes or N/A)
402	Covered Mall building	N/A
403	High rise buildings	N/A
404	Atriums	N/A
405	Under Ground buildings	N/A
406	Motor-vehicle Related Occupancies	N/A
407	Group I-2	N/A
408	Group I-3	N/A
409	Motion Picture Projection Rooms	N/A
410	Stages & Platforms	N/A
411	Special Amusement Buildings	N/A
412	Aircraft Related Occupancies	N/A
413	Combustible Storage	N/A
414	Hazardous Materials	N/A
415	Groups H-1, H-2, H-3, H-4, & H-5	N/A
416	Application of flammable finishes	N/A
417	Drying Rooms	N/A
418	Organic Coatings	N/A

13. FLOOD REQUIREMENTS (IBC 1612)
All projects located in a Special Flood Hazard Area shall comply with the City of Mobile Storm Water Management and Flood Control Ordinance.

13.1 Special Flood Hazard Area ___ Yes X No
13.2 Flood Zone
Base Flood Elevation (BFE) N/A
Minimum Finish Floor Elevation (MFFE) N/A
13.3 Flood proofing Requirements ___ Yes X No
13.4 Flood Proofing Certificate provided ___ Yes X No
13.5 Flood Proofing Plan included ___ Yes X No
13.6 Flood Openings Requirements ___ Yes X No
Total net area of flood openings
No. of flood openings
13.7 Comments

QUALITY ASSURANCE FOR WIND REQUIREMENTS (IBC 1705.10)

I have reviewed the requirements of IBC Section 1705 and my design incorporates the requirements of this Section of the Code and is reflected on the drawings and in the specifications.
X Yes ___ No

I have notified the Contractor of his responsibility under Section 1704. ___ Yes X No

*Contractor's Signature:
At time of permitting

15. SAFETY GLAZING FOR HAZARDOUS LOCATION

I have identified on drawings where tempered glass is required in hazardous locations. (2406.3)
___Yes X No

16. PREFABRICATED METAL BUILDINGS N/A

Requirements for metal building erection drawings included on drawings ____

17. PRE-ENGINEERED TRUSSES N/A

Live Loads shown ____
Wind Loads shown
Certification from manufacturer (Sealed) ____

18. FIRE DEPARTMENT REQUIREMENTS

18.1 Required water supply 1,500 gpm @ psi (per Architect/Engineer)
(The Insurance Service Office (ISO) method; the Iowa State University (ISU) Method; the Illinois Institute of Technology (IIT) Research Institute Method), or the 2012 International Fire Code (Table B105.1).

18.2 Hydraulic calculations for fire hydrant systems shall be submitted to the Fire Department for review and approval prior to construction.
___Yes X No

18.3 ***Timing of Installation***. Fire apparatus access roads and a water supply for fire protection shall be installed and made serviceable prior to and during the time of construction.
___Yes X No

18.4 Knox Key Box is required for all commercial occupancies with fire alarm and fire protection systems and all commercial occupancies requiring a certificate of occupancy inspection.
___Yes X No

19. ENERGY CODE REQUIREMENTS

19.1 Energy Requirements:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus annual energy cost for the proposed design.

19.2 Climate Zone: 2 - Mobile, Alabama

19.3 Method of Compliance:

Prescriptive (International Energy Conservation Code - (Latest edition adopted by State)) ___
Building Envelope Requirements
Building Mechanical Systems
Service Water Heating
Electrical Power & Lighting System
Prescriptive (ASHRAE 90.1)
UA Trade-Off (need signed COMcheck calculations or other approved software) ____
Performance (International Energy Conservation Code) ____
Performance (ASHRAE 90.1) ____

20. ELECTRICAL CODE REQUIREMENTS

20.1 Electrical Work X Yes ___ No
(If no, submit a Letter of Supervision indication electrical is not included in scope of work.)
20.2 Riser Diagram included X Yes ___ No
20.3 Panel Schedules X Yes ___ No
20.4 Light Fixture Schedule X Yes ___ No
20.5 Service Location X Yes ___ No
20.6 Panel Location X Yes ___ No

21. MECHANICAL CODE REQUIREMENTS
21.1 Provide complete floor plan of mechanical layout (ductwork, a/c units, air-handlers, etc.)
X Yes ___ No
21.2 Manufacturer's specifications. X Yes ___ No
21.3 HVAC equipment schedules. ___ Yes X No
21.4 HVAC clearances. ___ Yes X No
21.5 EER ratings for cooling capacity. X Yes ___ No
21.6 Permanent roof access location, (if required) ___Yes X No
21.7 Outside air ventilation calculations, (ASHRAE 62-2012)
X Yes ___ No
21.8 Verify rated walls/ceilings with in building. ___Yes X No
21.9 Printout of heating and cooling load calculations, (manual J)
___ Yes X No
21.10 Dryer vent length and location, (if applicable) ___ Yes X No

22. RESTAURANTS/BUILDINGS USING COOKING EQUIPMENT
22.1 Kitchen equipment schedule. ___ Yes X No
22.2 Ventilation calculations shown on drawings. ___ Yes X No
22.3 Cooking and ventilation equipment specifications. ___ Yes X No
22.4 Exhaust outlet discharge clearances. ___ Yes X No
22.5 Hood clearances from combustibles. ___ Yes X No
22.6 Exhaust duct materials and construction type. ___ Yes X No
22.7 Exhaust duct layout diagram shown. ___ Yes X No

23. PLUMBING REQUIREMENTS

23.1 Plumbing Work X Yes ___ No
(If no, submit a Letter of Supervision indication plumbing is not included in scope of work.)
23.2 Riser Diagram included X Yes ___ No
23.3 Fixture Schedule included X Yes ___ No
23.4 Public Sewer X Yes ___ No
23.5 Total Number of Required Fixtures:

IPC TABLE 403.1
TOTAL NUMBER OF REQUIRED FIXTURES N/A

IPC TABLE 403.1
TOTAL NUMBER OF REQUIRED FIXTURES

	OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS MEN	WATER CLOSETS WOMEN	WATER CLOSETS FAMILY	LAVATORIES MEN	LAVATORIES WOMEN	LAVATORIES FAMILY	DRINKING FOUNTAINS	SERVICE SINK	MISC.	MISC.
PROVIDED	B	--	1 (+2 URINALS)	3	1	--	--	1	2 NEW	--	--	--
TOTAL												

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JAMES M. SEALS, JR. PARK -
ATHLETIC RESTROOM/ CONCESSION
AND FIELD IMPROVEMENTS
PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

BCS1

BUILDING CODE SUMMARY

KEYNOTES (THIS SHEET)

1. EXISTING PINE TREE TO BE REMOVED COMPLETE AND HOLE PREPARED FOR NEW BUILDING FOUNDATION AND/OR APRON.
2. EXISTING BLEACHERS TO BE REPLACED WITH NEW BLEACHERS, LOCATE AS SHOWN. SEE SPECIFICATION 13930
3. EXISTING DUGOUT BENCH TOPS TO BE REPLACED. POSTS TO REMAIN WHERE EXISTING SLAB IS TO REMAIN.
4. EXISTING DUGOUT BENCH TOP & POSTS TO BE REPLACED. WHERE EXISTING SLAB IS TO BE REPLACED, EXISTING BENCH POSTS ALSO TO BE REPLACED.
5. EXISTING DUGOUT CHAINLINK FENCE AND LID TO BE REPLACED.
6. REMOVE EXISTING DRINKING FOUNTAIN. CAP & SAFE OFF PLUMBING SUPPLY LINES.
7. REMOVE EXISTING POWER OUTLET & MOUNTING POST. CAP & SAFE OFF POWER SUPPLY.
8. REMOVE EXISTING CONCRETE DRIVEWAY AS SHOWN. SEE CIVIL DRAWINGS AND SPECIFICATIONS.
9. OMIT
10. REMOVE EXISTING CONCRETE SLAB THIS AREA COMPLETE.
11. REGRADE EXISTING BASEBALL & SOFTBALL INFIELDS PER CIVIL DESIGN.

GENERAL NOTES (THIS SHEET)

NOTE 1
CONTRACTOR TO COORDINATE SCOPE SHOWN ON ARCHITECTURAL SITE PLAN(S) WITH SCOPE SHOWN ON ALL OTHER ENGINEERED PLANS

1 ARCHITECTURAL SITE PLAN - DEMOLITION

SCALE: 1/32"=1'-0"

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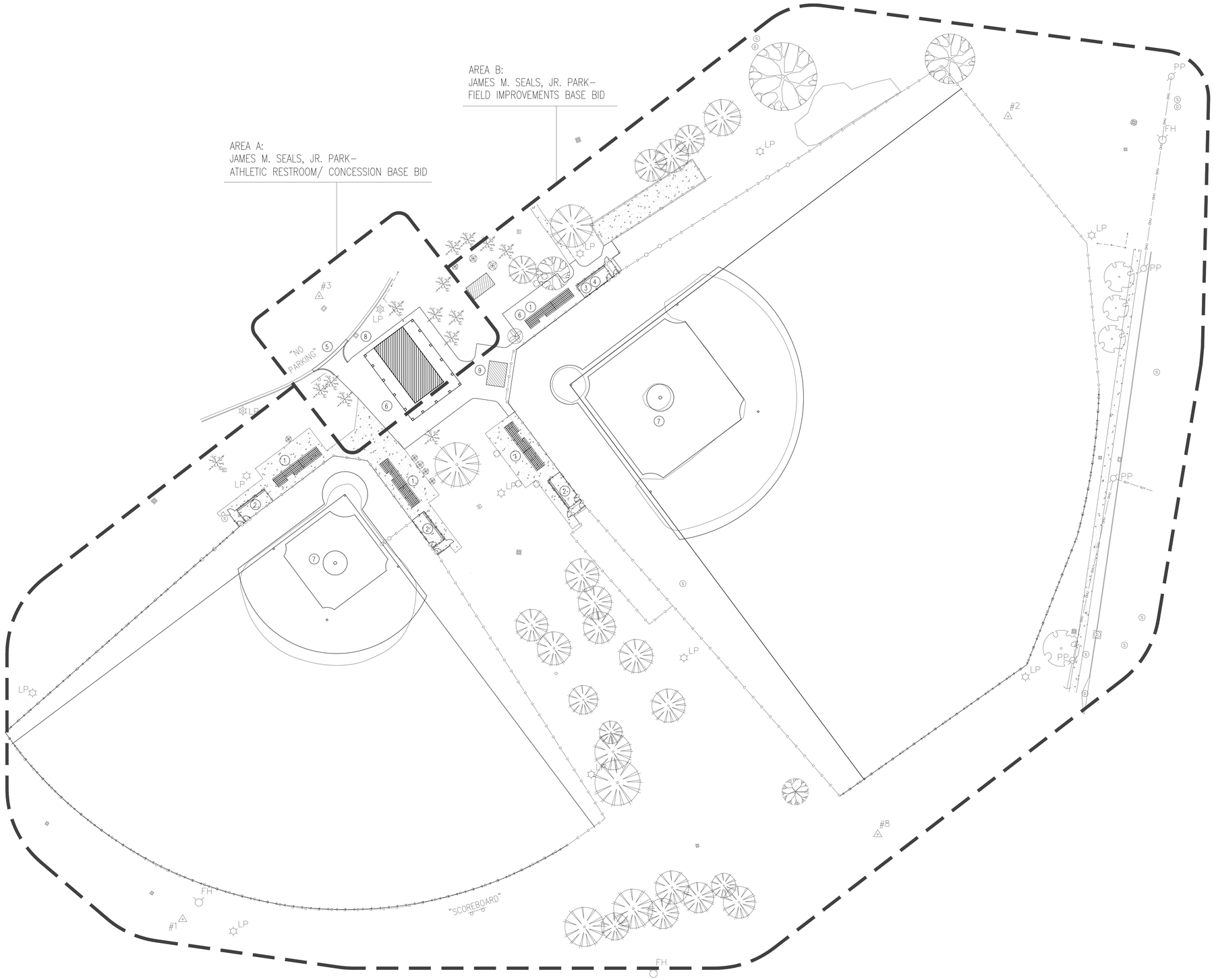
ASD1.1

ARCHITECTURAL SITE PLAN - DEMOLITION



KEYNOTES (THIS SHEET)

1. INSTALL NEW BLEACHERS WITH MIN 48 IN CLEAR PER MANF INSTRUCTIONS SEE SPECIFICATION 13930
2. INSTALL NEW DUGOUT BENCH TOPS FASTENED TO EXISTING POSTS. SEE DTL X/XX
3. INSTALL NEW DUGOUT BENCH TOP & POSTS THIS DUGOUT ONLY. SEE DTL X/XX
4. INSTALL NEW DUGOUT CHAINLINK FENCE AND LID TO MATCH THOSE EXISTING
5. INSTALL NEW 6" CONCRETE MAINTENANCE DRIVEWAY PER CIVIL DESIGN. THIS RAMP TO SUPPORT MAINTENANCE VEHICLE TRAFFIC AND TO BE COMPLIANT WITH ADA ACCESSIBLY – MAX SLOPE AND CROSS SLOPE
6. INSTALL NEW 4IN OR 6IN CONCRETE SLAB THIS AREA. SEE CIVIL DTLS AND SPECIFICATIONS
7. REGRADE BASEBALL & SOFTBALL INFIELDS PER CIVIL DESIGN
8. INSTALL NEW FIRE HYDRANT PER CIVIL DESIGN
9. INSTALL NEW TRENCH DRAIN PER CIVIL DESIGN

GENERAL NOTES (THIS SHEET)

NOTE 1
CONTRACTOR TO COORDINATE SCOPE SHOWN ON ARCHITECTURAL SITE PLAN(S) WITH SCOPE SHOWN ON ALL OTHER ENGINEERED PLANS

1 ARCHITECTURAL SITE PLAN - NEW WORK

SCALE: 1/32"=1'-0"

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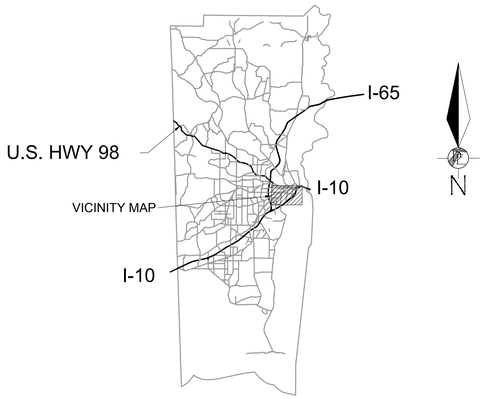
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

AS1.1

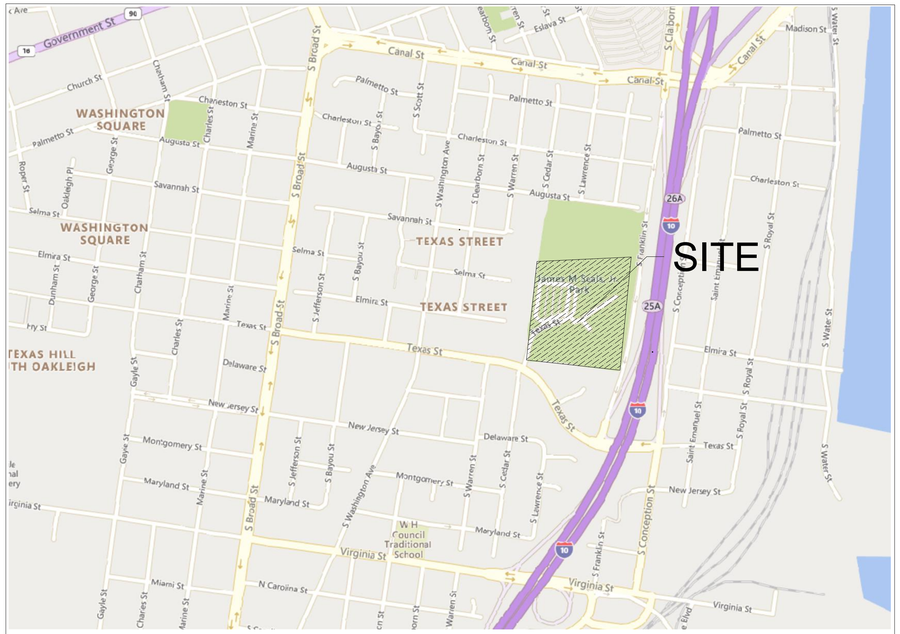
ARCHITECTURAL SITE PLAN - NEW WORK

JAMES M. SEALS PARK
IMPROVEMENTS PHASE 2
CIVIL CONSTRUCTION PLANS
CITY OF MOBILE PROJECT NUMBER: PR-041-20



MOBILE COUNTY, AL
N.T.S.

SHEET INDEX	
Sheet Number	Sheet Title
C1.0	COVER SHEET
C2.0	PROJECT NOTES
C3.0	EX. COND. AND DEMO
C4.0	SITE PLAN
C5.0	GRADING & DRAINAGE
C6.0	EROSION CONTROL PLAN
C7.0	CONSTRUCTION DETAILS 1
C8.0	EROSION CONTROL DETAILS



VICINITY MAP
N.T.S.

811 Know what's below. Call before you dig.

Dig Safely. Alabama 1 Call

UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALTCALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.

UTILITY OWNERS		
	WATER MAWSS Alan Tyree 4725 Moffett Rd Mobile, AL 36618 Business: (251)694-3155 Fax: (251)694-9412 atyree@mawss.com rlomax@mawss.com edobbs@mawss.com	

SURVEYORS NOTES

1. THE PROPERTY DESCRIBED HEREON IS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NO. 01097C0566 L, DATED 06/05/20, AND IS SHOWN TO BE IN FLOOD ZONE "X-UNSHADED".
2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE UTILIZING CITY OF MOBILE BENCH MARK No. 448 ELEVATION 9.83 (NGVD29) AND CONVERTED TO ELEVATION 9.70 (NAVD88).
3. HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS.
4. UNDERGROUND UTILITIES SHOWN HEREON WERE ESTABLISHED BY FIELD MEASUREMENTS OR AS SHOWN ON AS-BUILT DRAWINGS PROVIDED BY UTILITY COMPANIES.

SUBMITTED BY: _____ DATE: 10/28/2022

AVALISHA L. FISHER, P.E., ALABAMA REG. NO. 22182

NOTE: THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2018 EDITION.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED PROFESSIONAL ENGINEER AVALISHA L. FISHER
10/28/2022

11.02.2022

Driven Engineering, Inc.
8005 Morris Hill Road
Semmes, AL 36575
(251) 649-4011 office
(251) 645-0971 fax
www.drivenengineering.com

DRIVEN ENGINEERING PROJECT NO. 21078

C1.0

COVER SHEET

PROJECT NOTES

1.STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.

2.THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.

3.THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS PROVIDED FOR THIS PROJECT. CONTRACTOR IS DIRECTED TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY CONFLICT IS FOUND IN THESE PLANS AND/OR BETWEEN THESE PLANS OF OTHER DISCIPLINES FOR THIS PROJECT.

4.WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.

5.ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED.

6.ALL CONCRETE USED ON THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.

7.UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALICALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES INSIDE OR OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.

8.THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.

9.SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.

10.THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.

11.ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8".

12.ALL SUITABLE EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.

13.ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.

14.ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.

15.ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.

16.CONTRACTOR IS PROHIBITED FROM DISTURBING SITE AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS, PILES OF DIRT, AND OTHER BARE AREAS ARE TO BE COVERED AS DIRECTED BY THE ENGINEER. ANY AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED AND COVERED WITH A FIRM STAND OF GRASS BEFORE FINAL PAYMENT AND FINAL ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST TO THE PROJECT OWNER. IF GRASS WILL NOT GROW ON THE SUBJECT AREA DUE TO POOR WEATHER CONDITIONS, THE CONTRACTOR AGREES TO PLACE SOD ON THE AREA TO PREVENT EXCESS BARE AREAS FROM CONTRIBUTING SEDIMENT EROSION TO THE AREAS OF THE SITE THAT ARE UNDER CONSTRUCTION.

17.CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2018 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.

18.CONTRACTOR IS REQUIRED TO PROTECT THE PUBLIC ON ROADWAYS APPROACHING THE PROJECT AND WITHIN THE PROJECT LIMITS BY PROVIDING AND IMPLEMENTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES , CURRENT EDITION. CONTRACTOR MAY BE REQUIRED TO ASSIST MOTORIST WITH FLAGGING PER MUTCD REQUIREMENTS IF WORKING CLOSE TO BUT NOT IN THE ROADWAY ADJACENT TO THE SITE.

19.NO "BIRDBATHS" WILL BE ALLOWED TO REMAIN ON THE SITE. CONTRACTOR IS REQUIRED TO MAKE REPAIRS THAT WILL SATISFACTORILY ELIMINATE BIRDBATHS AND NOT LEAVE THE SITE APPEARING "REPAIRED".

20.CONTRACTOR IS PROHIBITED FROM DISTURBING SITE AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS, PILES OF DIRT, AND OTHER BARE AREAS ARE TO BE COVERED AS DIRECTED BY THE ENGINEER. ANY AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED AND COVERED WITH A FIRM STAND OF GRASS BEFORE FINAL PAYMENT AND FINAL ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST TO THE DEVELOPER. IF GRASS WILL NOT GROW ON THE SUBJECT AREA DUE TO POOR WEATHER CONDITIONS, THE CONTRACTOR AGREES TO PLACE SOD ON THE AREA TO PREVENT EXCESS BARE AREAS FROM CONTRIBUTING SEDIMENT EROSION TO THE AREAS OF THE SITE THAT ARE UNDER CONSTRUCTION.

21.THE TREES NOT INDICATED TO BE REMOVED ARE TO BE PRESERVED. THE CONTRACTOR IS DIRECTED TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR THESE TREES. NO VEHICLES OR HEAVY EQUIPMENT SHALL BE PARKED OR STORED UNDER THE CANOPY OF THESE TREES. WHEN SUBGRADE IS EXCAVATED IN THE ROOT ZONE OF THESE TREES, ROOTS ARE TO BE SAWED NOT RIPPED WITH HEAVY EQUIPMENT SUCH AS BACKHOE BUCKETS. NO METHOD OF ROOT REMOVAL WILL BE DONE BY ANY METHOD THAT WOULD RESULT IN ANY DISPLACEMENT OF ROOTS THAT ARE TO REMAIN.

22.EQUAL SUBSTITUTE CASTINGS MAY BE USED IF APPROVED BY THE ENGINEER.

23.THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE TESTING LABORATORY OF HIS WORKING SCHEDULE IN ORDER THAT THE PROPER SAMPLE MAY BE OBTAINED AND TEST MADE.

24.COVER/GRATE SPACED EVENLY AROUND THE EDGE OF THE COVER/GRATE. THE COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE ITEM ASSOCIATED WITH THE COVER/GRATE.

25.SIDEWALK CONSTRUCTION SHOWN ON THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 1991 TITLE II, TITLE III, AND ANY STATE, COUNTY, LOCAL, OR OTHER APPLICABLE LAWS. BE COMPLETED AT THE CIVIL ENGINEER'S REGULAR BILLING RATES, AND THE COST OF THIS ADDITIONAL EFFORT WILL BE THE CONTRACTORS RESPONSIBILITY.

26.LEGAL DESCRIPTION:
STATE OF ALABAMA
COUNTY OF MOBILE
COMG SE COR OF LAWRENCE & S ELMA STS THEN E-LY ALG S S OF SELMA 261 FT S TO W R/W HAMILTON ST TH S ALG W R/W 310 FT S TO N R/W ELMIRA TO W ALG N R/W 263 FT S TO E R/W LAWRENCE ST TH N ALG E E R/W 310 FT S TO PT OF BEG EXEMPT-OWNED BY CITY OF MOBILE #SEC 38 T4S R1W #MP29 10 38 0 001

LEGEND

(R)	RECORD BEARING OR DISTANCE
(A)	ACTUAL BEARING OR DISTANCE
CRF	CAPPED REBAR FOUND (BUSBY)
CMF	4"x4" CONCRETE MONUMENT FOUND
CTF	CRIMP TOP PIPE FOUND
RBF	5/8" REBAR FOUND
CRS	CAPPED REBAR SET
LP	LIGHT POLE
	GUY POLE W/ANCHOR
	ELECTRIC SERVICE POLE
EV	ELECTRIC VAULT
FH	FIRE HYDRANT
S	SANITARY SEWER MANHOLE
"STOP"	SIGN
	STORM DRAIN PIPE
	WOOD PRIVACY FENCE
	CHAIN LINK FENCE
	WROUGHT FENCE
	LIVE OAK TREE
	OAK TREE
	PINE TREE
	MAGNOLIA TREE
	POPLAR TREE
	MAPLE TREE
	SYCAMORE TREE
	SWEETGUM TREE
	BAY TREE
	CAMPHOR TREE
	POPCORN TREE
	UNKNOWN TREE
XX.XX	REQ'D SPOT ELEVATION
XX.XX	EXISTING SPOT ELEVATION
XX	LAYOUT POINT

101	PROPOSED INTERMEDIATE CONTOUR
100	PROPOSED INDEX CONTOUR
11	EXISTING INTERMEDIATE CONTOUR
10	EXISTING INDEX CONTOUR
	FORESHORTENED LINE
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	MATCH LINE
	RIGHT-OF-WAY TBA
	EASEMENT TBA
	PROPOSED PROPERTY LINE
X X X X	FENCE RESET LOCATION
	PROPOSED EDGE OF PAVEMENT
	ADJOINER'S PROPERTY LINES
	EXISTING EDGE OF PAVEMENT
OHP	EXIST OVERHEAD UTILITY LINE(S)
UT	EXIST UNDERGROUND TELEPHONE LINE
GAS	EXIST. UNDERGROUND GAS LINE OR PIPELINE
UP	EXISTING UNDERGROUND POWER LINE
SS	EXIST SANITARY SEWER LINE
W	EXISTING WATER LINE
	LIMITS OF CONSTRUCTION
	REQ'D SILT FENCE
	EXISTING GUARD RAIL LEFT
	EXISTING GUARD RAIL RIGHT
SS	EXIST SANITARY SEWER STEEL ENCASEMENT LINE

PATTERNS

	EXIST. CONCRETE
	EXIST. ASPHALT
	PROPOSED GRAVEL
	PROPOSED CONCRETE
	ITEMS TO BE DEMO'D

ABBREVIATIONS

(A)	ACTUAL
(R)	RECORD
(D)	DEED CALL
(M)	FIELD MEASUREMENT
(P)	PLAT (UNRECORDED)
B.O.B.	BASIS OF BEARINGS
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
R/W	RIGHT-OF-WAY
TBA	TO BE ACQUIRED
FFE	FINISHED FLOOR ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE
CSFPE	CORRUGATED SMOOTH FLOW POLYETHYLENE PIPE
LS	LUMP SUM
SY	SQUARE YARD
LF	LINEAR FOOT
EA	EACH
CY	CUBIC YARD
STA	STATION
GAL	GALLON
AC	ACRE
SF	SQUARE FOOT
LB	POUND
REQD	REQUIRED
EOP	EDGE OF PAVEMENT OR END OR PROJECT
EX/EXIST	EXISTING
MIN	MINIMUM
BOP	BEGINNING OF PROJECT
TYP	TYPICAL
ELEV	ELEVATION
RET	RETAIN(ED)
FO	FIBER OPTIC

CITY OF MOBILE NOTES

1. CONTRACTOR MUST PROVIDE A RIGHT-OF-WAY CONSTRUCTION BOND.

2. CONTRACTOR MUST OBTAIN A RIGHT-OF-WAY PERMIT PRIOR TO PERFORMING WORK IN THE RIGHT OF WAY.

3. CONTRACTOR MUST PAY FOR AND PROVIDE ANY STORM SEWER VIDEO THAT MAY BE REQUIRED BY THE CITY.

4. ALL PAINT STRIPING SPECIFIED ON THE PLANS MUST BE THERMOPLASTIC.

5. THE MINIMUM IN-PLACE DENSITY REQUIREMENT FOR ITEM 429-A SHALL BE 92.0 WHEN PLACED OVER A GRANULAR SOIL BASE COURSE, PER ALDOT SPECIFICATION SECTION 306.03(g).

A. PERMITTEES ARE REQUIRED TO INSTALL AN IDENTIFICATION TAG ON ALL ASPHALT ROADWAY SURFACE OVERLAYS OR PATCHES REQUIRED BY THE CONSTRUCTION STANDARDS AND ON ALL TEMPORARY ASPHALT OVERLAYS OR PATCHES OF ANY CONCRETE ROADWAY SURFACE OR CONCRETE SIDEWALK SURFACE.

B. IDENTIFICATION TAGS ARE NOT INTENDED TO IDENTIFY UNDERGROUND UTILITY INFRASTRUCTURE. THEY ARE INTENDED TO IDENTIFY THE PERMITTEE WHO IS RESPONSIBLE FOR AN ASPHALT OVERLAY OR PATCH AND FOR MAINTAINING THE ASPHALT OVERLAY OR PATCH AS REQUIRED BY THIS CHAPTER AND THE CONSTRUCTION STANDARDS.

C. IDENTIFICATION TAGS MUST BE USED ON ANY TEMPORARY OR PERMANENT ASPHALT OVERLAY OR PATCH. IDENTIFICATION TAG REQUIREMENTS WILL BE ESTABLISHED BY THE CITY ENGINEER, BUT PERMITTEES ARE RESPONSIBLE FOR INSTALLING IDENTIFICATION TAGS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

1. IDENTIFICATION TAGS MUST BE INSTALLED DURING THE FINAL LAYER OF PAVING. THE TAGS MUST BE PRESSED INTO THE ASPHALT BEFORE COMPACTION OF THE FINAL LAYER COMMENCES. ALL IDENTIFICATION TAGS MUST BE EMBEDDED AT ZERO GRADE TOLERANCE.
2. THE USE OF NAILS, SCREWS, STAPLES, OR OTHER METAL FASTENERS TO SECURE TAGS IS PROHIBITED.
3. IDENTIFICATION TAGS SHOULD NOT BE PLACED WITHIN TWELVE (12) INCHES OF ANY CASTING UNLESS SPACE DOES NOT ALLOW OTHERWISE. TAGS SHOULD BE PLACED AWAY FROM DIRECT WHEEL TRAFFIC WHEN POSSIBLE.
4. THE PERMITTEE IS RESPONSIBLE FOR REPLACING DAMAGED, FADED, OR MISSING IDENTIFICATION TAGS DURING THE LIFE OF ANY TEMPORARY OVERLAY OR PATCH AND FOR A PERIOD OF THREE (3) YEARS AFTER A PERMANENT OVERLAY OR PATCH HAS BEEN LAID.
5. IDENTIFICATION TAGS MUST BE PLACED IN ACCORDANCE WITH THE GUIDELINES IN TABLE 1. ALL LATERALS EXTENDING FROM THE MAIN PATCH MUCH HAVE THEIR OWN TAG PLACED IN THE CENTER OF THE LATERAL.

TABLE 1

PATCH LENGTH	TAG PLACEMENT
LESS THAN 50 FEET	1 TAG PLACED IN THE CENTER OF THE OVERLAY OR PATCH.
50 FEET TO 100 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE AND NOT IN THE WHEEL PATH, OR AS OTHERWISE DIRECTED BY THE ENGINEER.
100 FEET TO 400 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE ANIDED NOT IN THE WHEEL PATH, AND 1 TAG PLACED IN THE CENTER OF THE OVERLAY OR PATCH, OR AS OTHERWISE DIRECTED BY THE ENGINEER. AN ADDITIONAL TAG MUST BE PLACED IN THE CENTER OF THE OVERLAY OR PATCH AT EVERY INTERSECTING STREET.
GREATER THAN 400 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE AND NOT IN THE WHEEL PATH, AND AT 200 LINEAR FOOT INTERVALS WITH EACH TAG LOCATED A MINIMUM OF 12 INCHES FROM THE EDGE AND NOT IN THE WHEEL PATH, OR AS OTHERWISE DIRECTED BY THE ENGINEER. AN ADDITIONAL TAG MUST BE PLACED IN THE CENTER OF THE OVERLAY OR PATCH AT EVERY INTERSECTING STREET.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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(251) 645-0971 fax
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DRIVEN ENGINEERING PROJECT NO. 21078

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

JAMES M. SEALS, JR. PARK - ATHLETIC RESTROOM/CONCESSION AND FIELD IMPROVEMENTS
PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER JAMES A. FISHER L.S.
10/28/2022

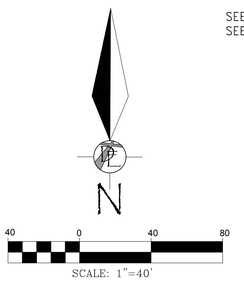
11.02.2022

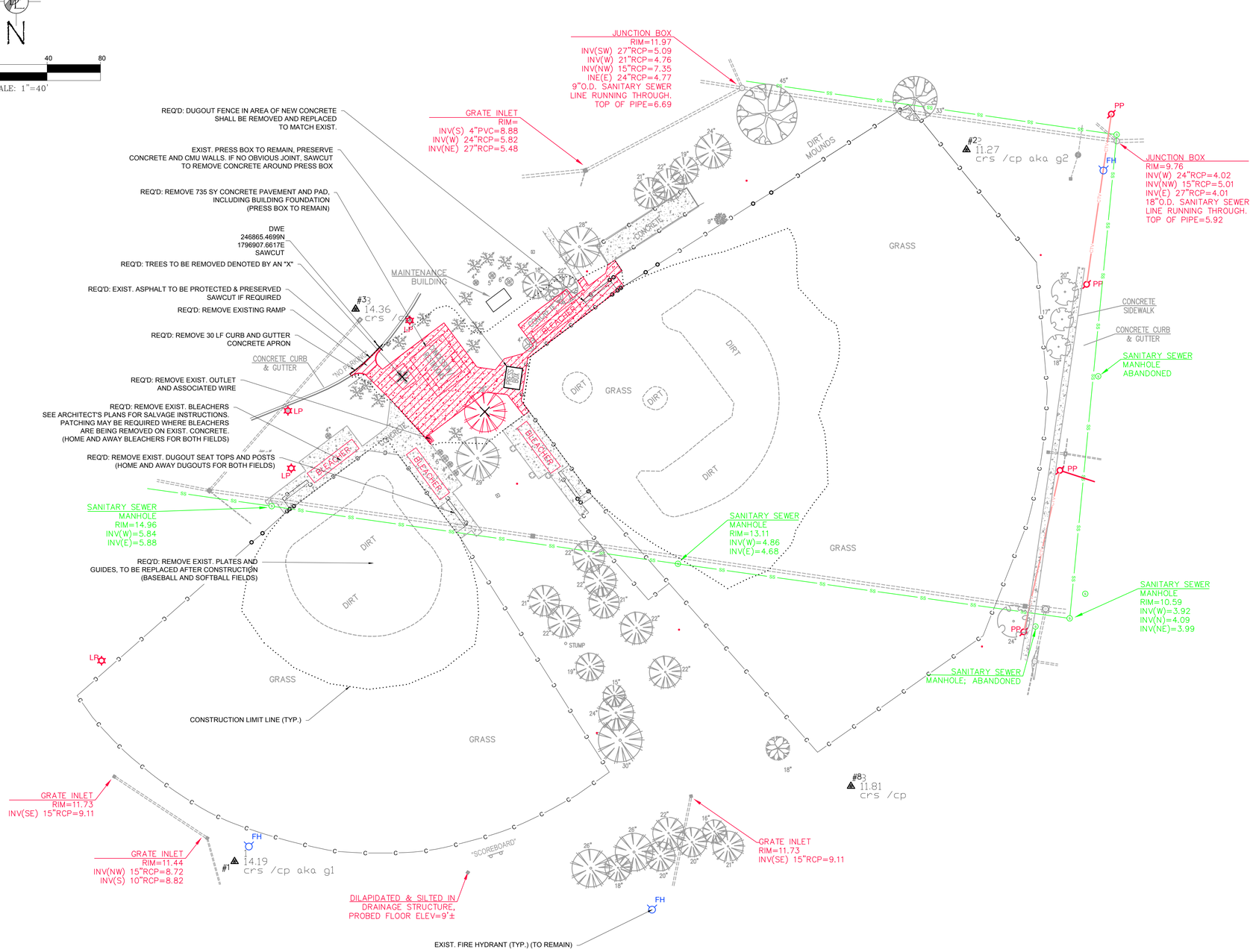
C2.0

PROJECT NOTES

SEE LEGEND ON SHEET C2.0 – PROJECT NOTES
SEE LAYOUT POINTS AND COORDINATES ON SHEET C4.0

NOTE: EROSION AND SEDIMENT CONTROL SHOWN ON C6.0 NEED TO BE IN PLACE PRIOR TO DEMOLITION WORK.





811 Know what's below. Call before you dig.

Dig Safely. Alabama 1 Call

UNDERGROUND UTILITY NOTE

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ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER ANTHONY K. FIKE L.S.
10/28/2022

11.02.2022

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C3.0

EX. COND. AND DEMO

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL.
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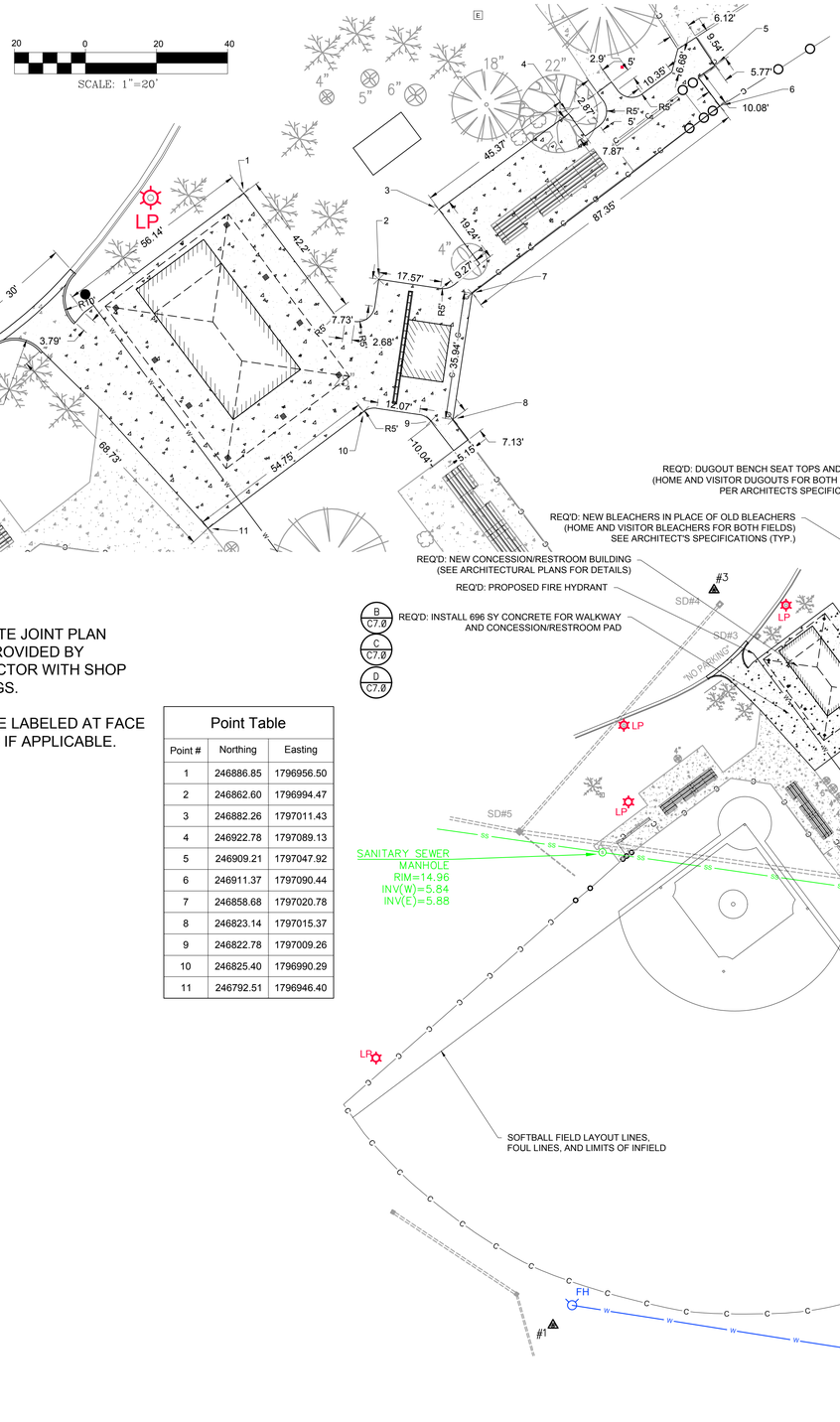
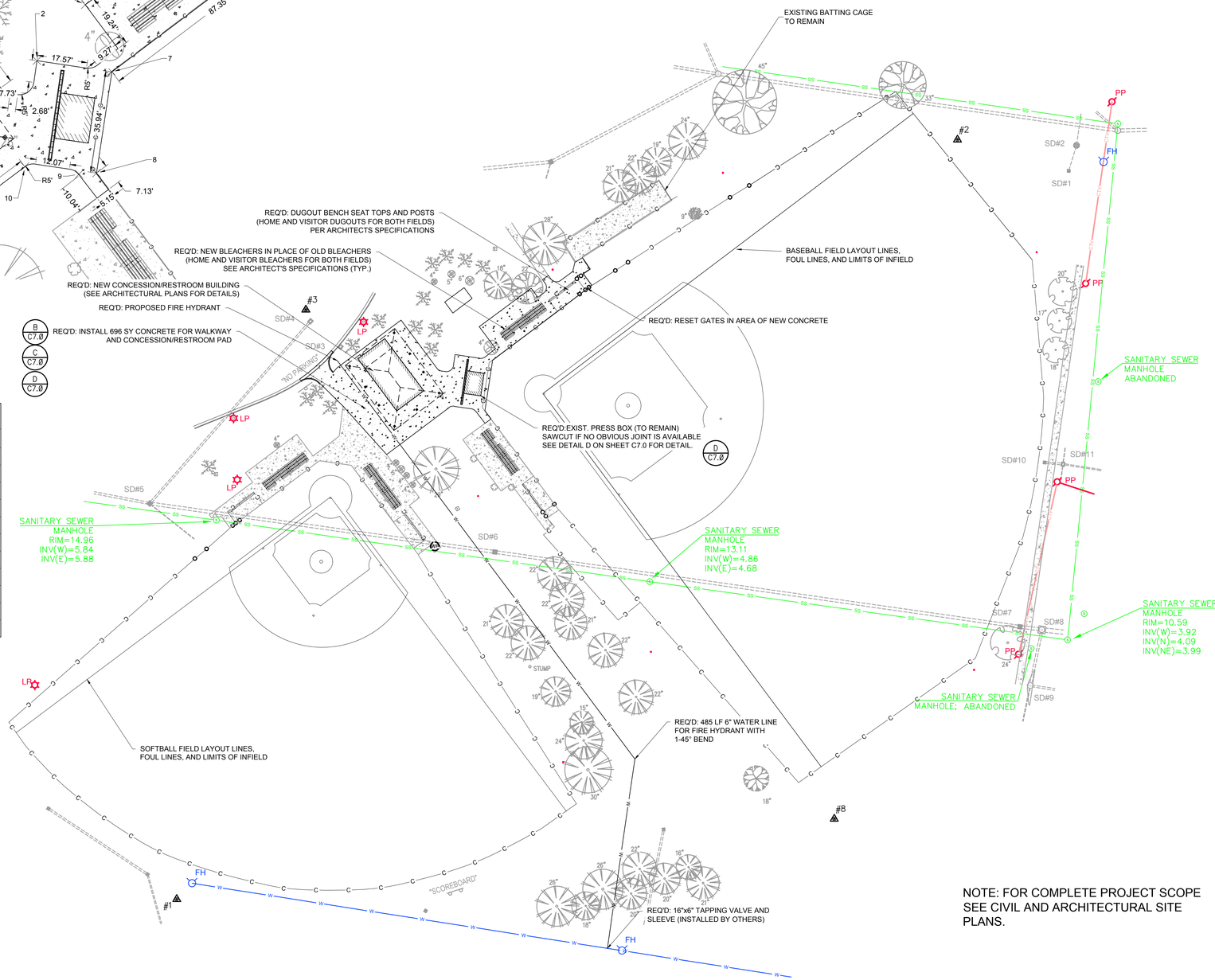


CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	246,480.16	1,796,799.06	14.19	RED CAPPED REBAR (WATTIER)
2	247,013.56	1,797,347.22	11.27	RED CAPPED REBAR (WATTIER)
3	246,894.12	1,796,889.69	14.36	RED CAPPED REBAR (WATTIER)
8	246,536.57	1,797,260.69	11.81	RED CAPPED REBAR (WATTIER)

SEE LEGEND ON SHEET C2.0 – PROJECT NOTES



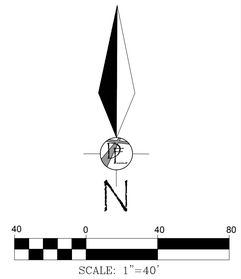
NOTES

CONCRETE JOINT PLAN TO BE PROVIDED BY CONTRACTOR WITH SHOP DRAWINGS.

RADII ARE LABELED AT FACE OF CURB IF APPLICABLE.

Point Table		
Point #	Northing	Easting
1	246886.85	1796956.50
2	246862.60	1796994.47
3	246882.26	1797011.43
4	246922.78	1797089.13
5	246909.21	1797047.92
6	246911.37	1797090.44
7	246858.68	1797020.78
8	246823.14	1797015.37
9	246822.78	1797009.26
10	246825.40	1796990.29
11	246792.51	1796946.40

NOTE: FOR COMPLETE PROJECT SCOPE SEE CIVIL AND ARCHITECTURAL SITE PLANS.



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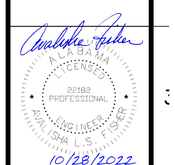

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C4.0

SITE PLAN

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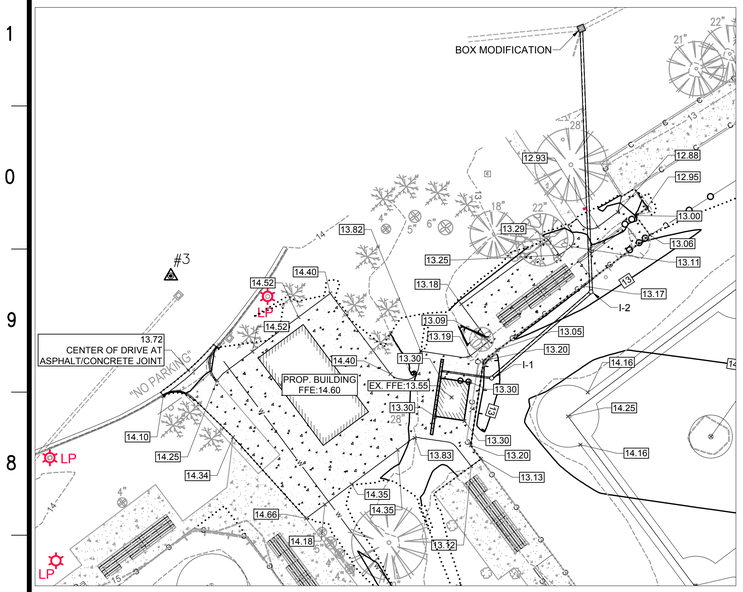
SEE LEGEND ON SHEET C2.0 – PROJECT NOTES

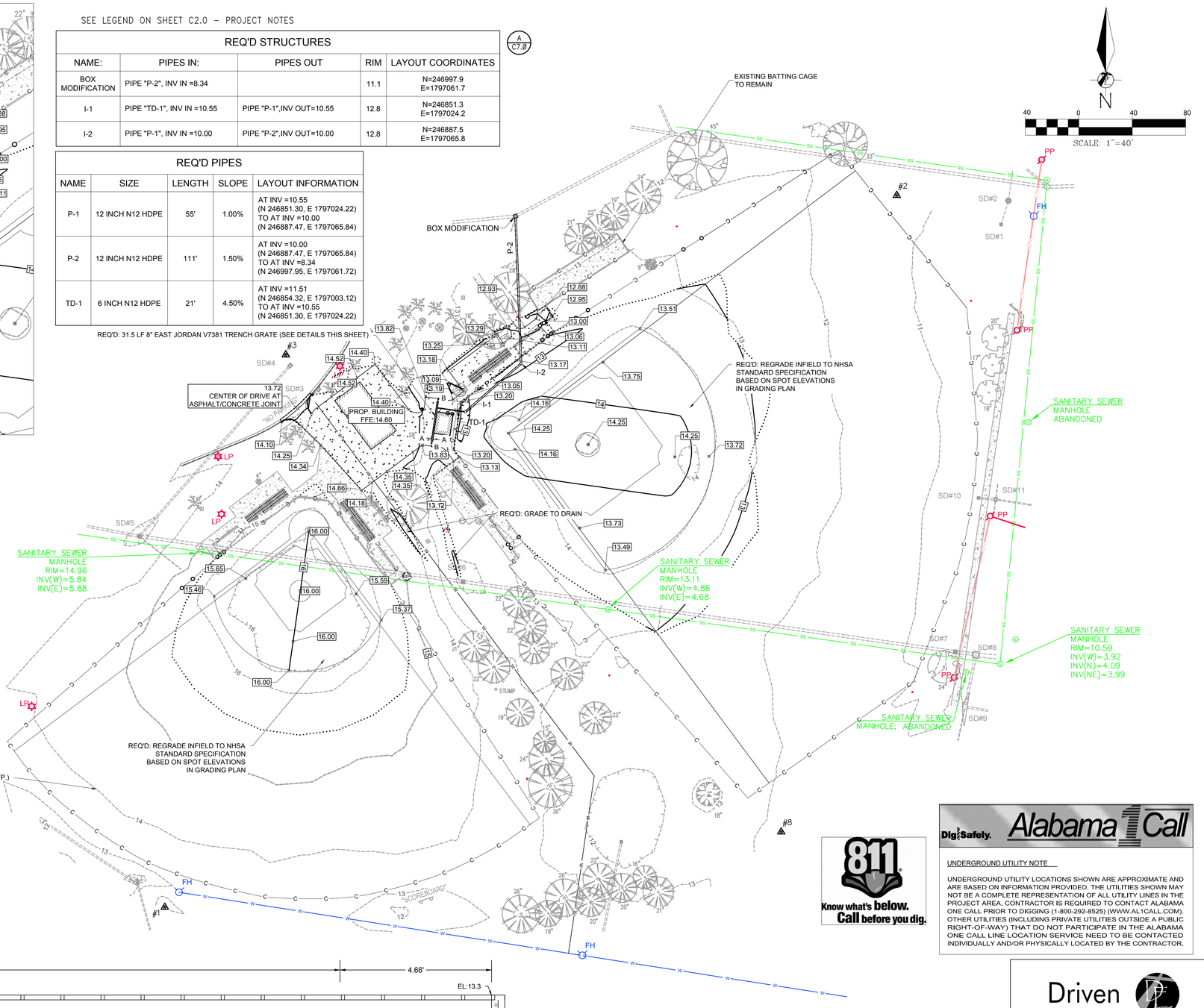
REQ'D STRUCTURES				
NAME:	PIPES IN:	PIPES OUT	RIM	LAYOUT COORDINATES
BOX MODIFICATION	PIPE "P-2", INV IN =8.34		11.1	N=246997.9 E=1797061.7
I-1	PIPE "TD-1", INV IN =10.55	PIPE "P-1",INV OUT=10.55	12.8	N=246851.3 E=1797024.2
I-2	PIPE "P-1", INV IN =10.00	PIPE "P-2",INV OUT=10.00	12.8	N=246887.5 E=1797065.8

REQ'D PIPES				
NAME	SIZE	LENGTH	SLOPE	LAYOUT INFORMATION
P-1	12 INCH N12 HDPE	55'	1.00%	AT INV =10.55 (N 246851.30, E 1797024.22) TO AT INV =10.00 (N 246887.47, E 1797065.84)
P-2	12 INCH N12 HDPE	111'	1.50%	AT INV =10.00 (N 246887.47, E 1797065.84) TO AT INV =8.34 (N 246997.95, E 1797061.72)
TD-1	6 INCH N12 HDPE	21'	4.50%	AT INV =11.51 (N 246854.32, E 1797003.12) TO AT INV =10.55 (N 246851.30, E 1797024.22)

REQ'D: 31.5 LF 8" EAST JORDAN V7381 TRENCH GRATE (SEE DETAILS THIS SHEET)



30 0 30 60
SCALE: 1"=30'

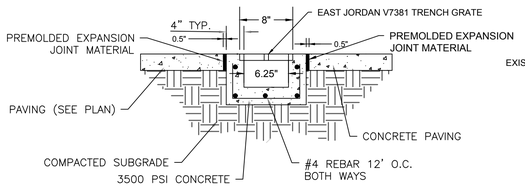


40 0 40 80
SCALE: 1"=40'

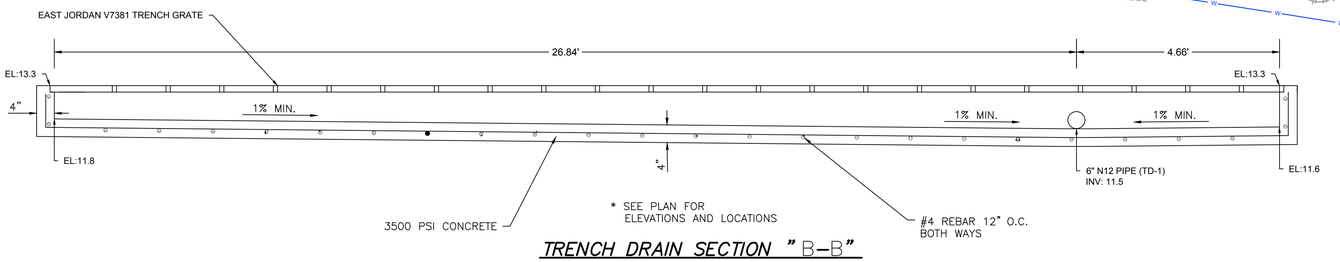
N

NOTES

ALL CURB ELEVATIONS ARE TOP OF CURB.



TRENCH DRAIN SECTION "A–A"
N. T. S.



TRENCH DRAIN SECTION " B–B"
N. T. S.

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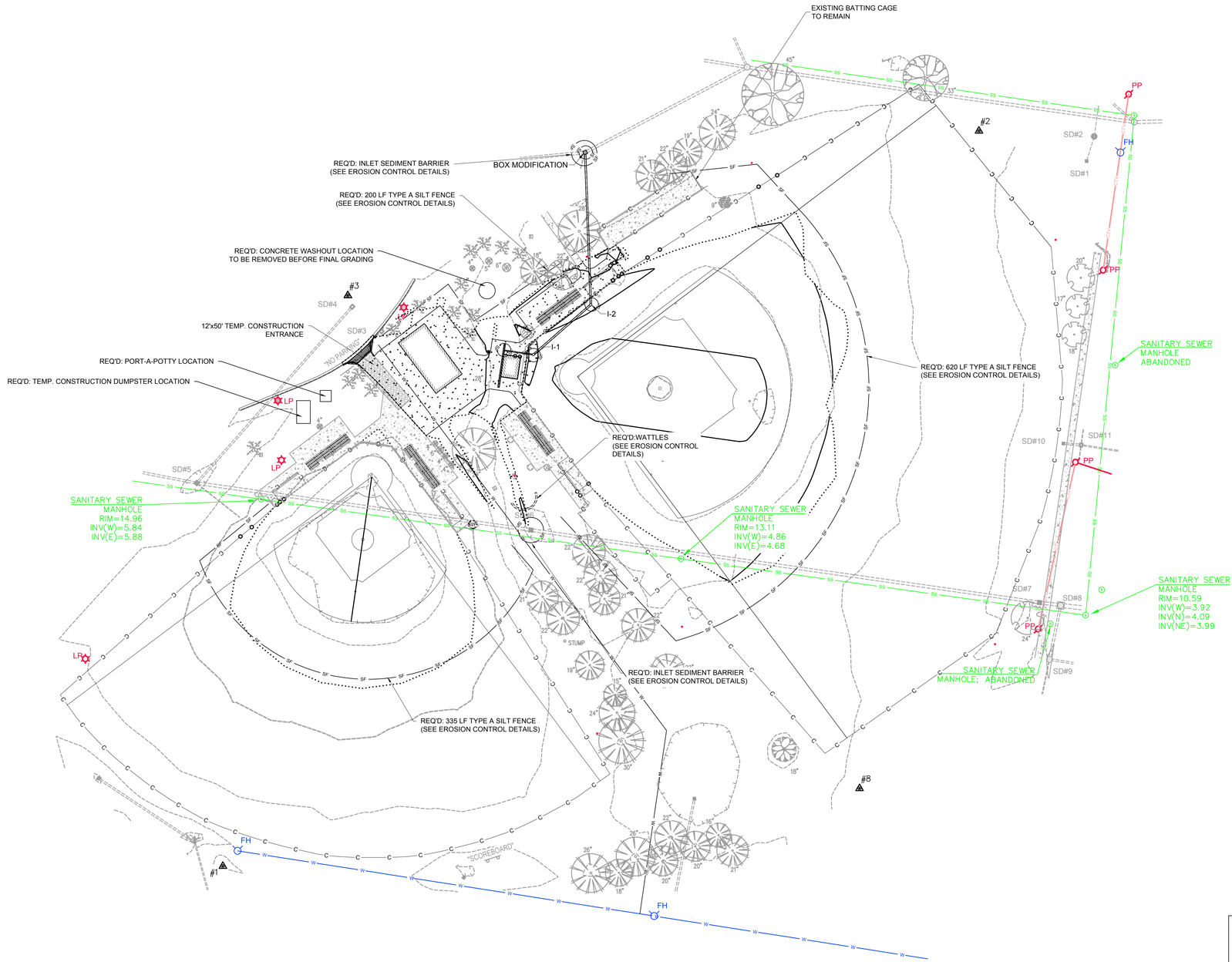
ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER JAMES M. SEALS
10/28/2022

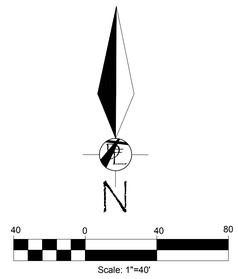
11.02.2022

C5.0

GRADING & DRAINAGE

SEE LEGEND ON SHEET C2.0 – PROJECT NOTES





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C6.0

EROSION CONTROL PLAN

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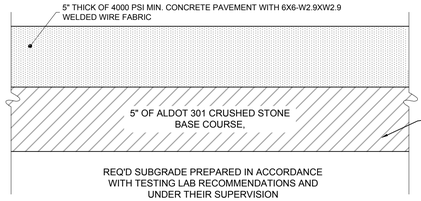
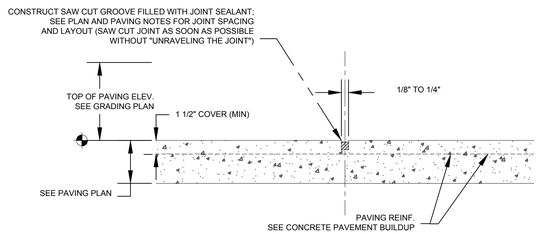


C / C4.0 CONCRETE PAVEMENT BUILDUP
NOT TO SCALE



SAWCUT EXPANSION JOINT
SCALE: N.T.S.

CONCRETE PAVEMENT NOTES

The concrete pavement joints shall be installed with a maximum distance between joint of 10'-0". There shall be only two types of joints required. They are as follows:

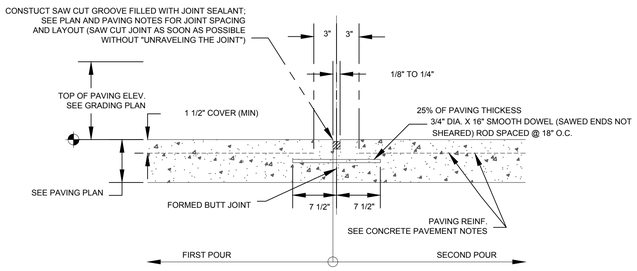
a) Saw Cut Joints. SEE DETAIL. These joints shall be installed at locations indicated on the Paving Plan. The purpose of this type of joint is to control cracking by providing a "weak" point that a crack will follow.

b) Construction/Expansion Joints. SEE DETAIL. These joints shall be installed at all locations on the Paving Plan to be an "Expansion Joint". Our desire is to eliminate any redwood or expandable material at the Expansion Joint in order to minimize the width of the joint in an effort to prevent water intrusion thru the joint as the joint filler deteriorates over time. This type of joint can be used as an "Expansion Joint" where indicated on the drawings OR as a "Construction Joint" where the pour is stopped.

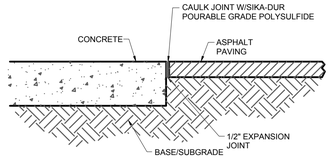
c) All drive approaches (between the property line and the existing roadway pavement) shall be constructed in accordance with City of Mobile requirements.

d) Concrete shall consists of a mix with minimum 28-day compressive strength of 4,000 psi or minimum 28-day flexural strength of 700 psi.

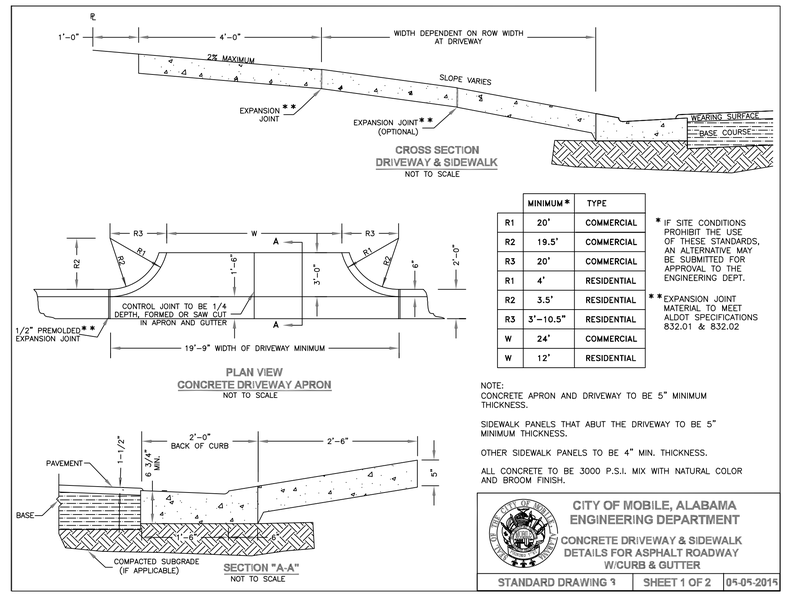
e) The timing of grooving or saw cutting is critical to the prevention of shrinkage cracks in the pavement. Begin saw cutting within 4 to 6 hours after concrete placement or as soon as the concrete allows when using an early-entry saw. The depth of the contraction joint should be at least 1/4 of the slab thickness. Aggregate interlock joints will be sufficient reinforcement of the contraction joints.



CONSTRUCTION EXPANSION JOINT
SCALE: N.T.S.



TYP. CONCRETE TO
B / C4.0 ASPHALT CONNECTION
NOT TO SCALE



	MINIMUM *	TYPE
R1	20'	COMMERCIAL
R2	19.5'	COMMERCIAL
R3	20'	COMMERCIAL
R1	4'	RESIDENTIAL
R2	3.5'	RESIDENTIAL
R3	3'-10.5"	RESIDENTIAL
W	24'	COMMERCIAL
W	12'	RESIDENTIAL

* IF SITE CONDITIONS PROHIBIT THE USE OF THESE STANDARDS, AN ALTERNATIVE MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEERING DEPT.

** EXPANSION JOINT MATERIAL TO MEET ALDOT SPECIFICATIONS 832.01 & 832.02

NOTE:
CONCRETE APRON AND DRIVEWAY TO BE 5" MINIMUM THICKNESS.

SIDEWALK PANELS THAT ABUT THE DRIVEWAY TO BE 5" MINIMUM THICKNESS.

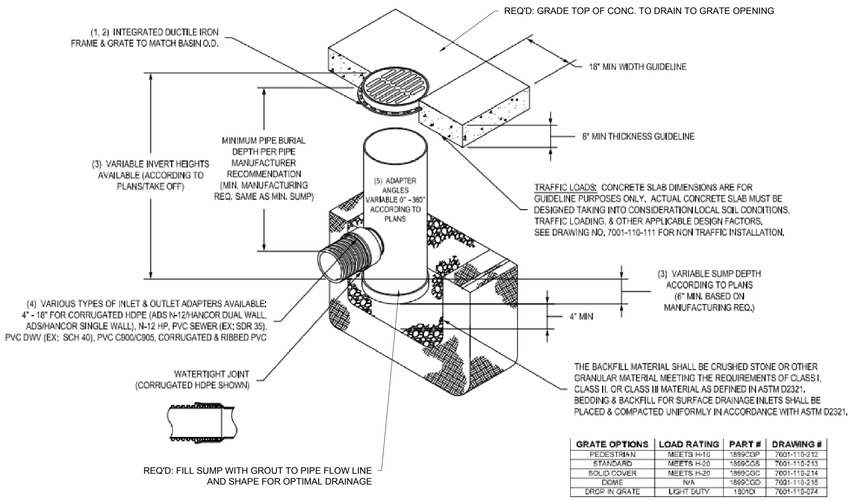
OTHER SIDEWALK PANELS TO BE 4" MIN. THICKNESS.

ALL CONCRETE TO BE 3000 P.S.I. MIX WITH NATURAL COLOR AND BROOM FINISH.

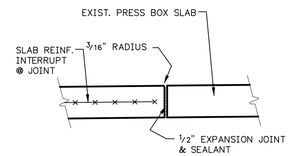
CITY OF MOBILE, ALABAMA
ENGINEERING DEPARTMENT
CONCRETE DRIVEWAY & SIDEWALK DETAILS FOR ASPHALT ROADWAY W/CURB & GUTTER

STANDARD DRAWING 1	SHEET 1 OF 2	05-05-2015

A / C5.0 18" NYLOPLAST INLET DETAIL
NOT TO SCALE



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CRP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1804DI	7001-110-074



PRESS BOX & EX. CONCRETE EXPANSION JOINT / D / C4.0
SCALE: N.T.S.

NOTE: THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2018 EDITION.

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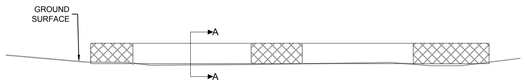
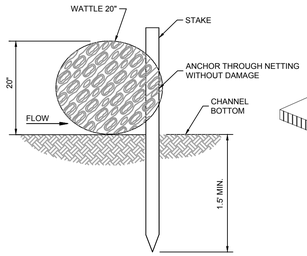
DRIVEN ENGINEERING PROJECT NO. 21078

C7.0
CONSTRUCTION DETAILS 1



WATTLE ELEVATION DETAIL FLAT SECTION

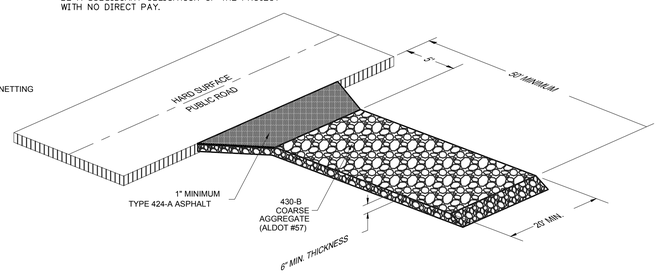
NOT TO SCALE



WATTLE SECTION A-A

NOT TO SCALE

NOTE: CONSTRUCTION & MAINTENANCE OF TEMPORARY GRAVEL CONSTRUCTION ENTRANCE WILL BE A SUBSIDIARY OBLIGATION OF THE PROJECT WITH NO DIRECT PAY.



GENERAL NOTES

1.) EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.

2.) TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.

3.) SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.

4.) SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.

5.) AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.

6.) STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT ENTRY WITH SEDIMENT BARRIERS LIKE "SILT SAVER" (R) UNTIL THE SITE IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS IS OBTAINED.

7.) CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 13 DAYS OR LONGER.

8.) THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.

9.) GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.

10.) THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.

11.) SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
A.) ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.
B.) EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
C.) EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
D.) AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
E.) SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.

12.) UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOI) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOI PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.

13.) THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.

SOD INSTALLATION NOTES

1.) SOD SHALL BE STORED IN THE SHADE DURING INSTALLATION.

2.) THE TOPSOIL SHALL BE RAKED TO REMOVE ANY CRUST LIKE SOIL BEFORE LAYING SOD. WHEN TEMPERATURES ARE HIGH, LIGHTLY IRRIGATE THE SOIL, IMMEDIATELY BEFORE LAYING THE SOD.

3.) SOD SHALL NOT BE PLACED ON GRAVEL, FROZEN SOILS, OR SOILS THAT HAVE BEEN RECENTLY STERILIZED OR TREATED WITH HERBICIDES.

4.) LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. THE ROWS SHOULD BE IN A BRICK-LIKE PATTERN (SEE FIGURE SOD - 2 OF THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS). THE LONGEST DIMENSION OF THE SOD SHALL BE PERPENDICULAR TO ANY SLOPE.

5.) USE A KNIFE OR SHARP SPADE TO TRIM AND FIT IRREGULARLY SHAPED AREAS.

6.) ON SLOPES 3:1 OR GREATER, IN GRASS SWALES OR WHEREVER EROSION MAY BE A PROBLEM, SECURE SOD WITH PEGS OR STAPLES.

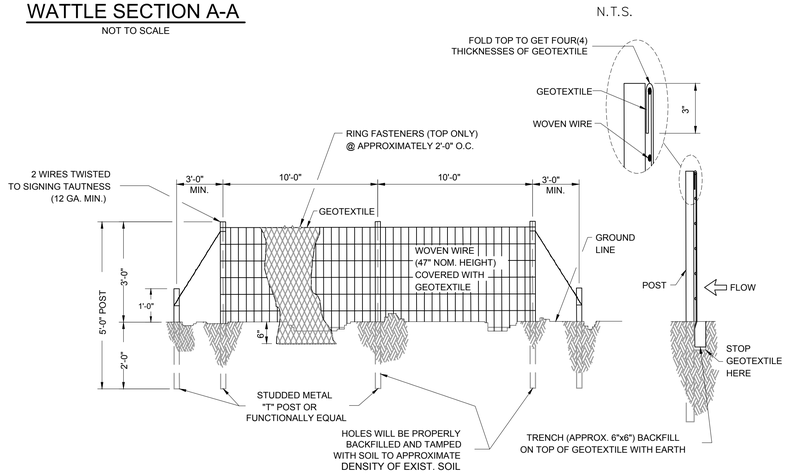
7.) USE A WEIGHTED ROLLER ON THE SOD TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.

8.) ONCE THE SOD HAS BEEN ROLLED, IRRIGATE UNTIL THE SOIL IS MOIST 6" BELOW THE BOTTOM OF THE SOD.

9.) ALL SODDED AREAS SHALL BE KEPT MOIST TO A MINIMUM DEPTH OF 4" UNTIL THE GRASS TAKES ROOT.

10.) MOWING SHALL NOT BE PERMITTED UNTIL SOD IS FIRMLY ROOTED.

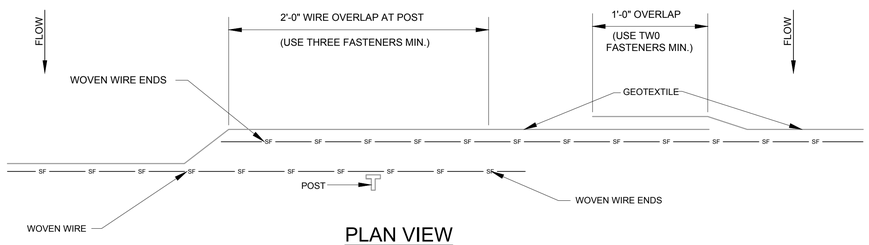
N.T.S.



SILT FENCE TYPE A DETAIL (TYPICAL)

NOT TO SCALE

SECTION



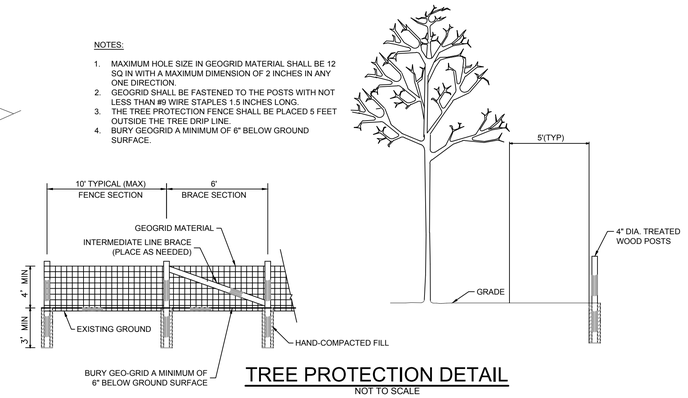
PLAN VIEW
REQUIRED LAPPING OF SILT FENCE

NOT TO SCALE

NOTE: THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2018 EDITION.

NOTES:

1. MAXIMUM HOLE SIZE IN GEOGRID MATERIAL SHALL BE 12 SQ IN WITH A MAXIMUM DIMENSION OF 2 INCHES IN ANY ONE DIRECTION.
2. GEOGRID SHALL BE FASTENED TO THE POSTS WITH NOT LESS THAN #9 WIRE STAPLES 1.5 INCHES LONG.
3. THE TREE PROTECTION FENCE SHALL BE PLACED 5 FEET OUTSIDE THE TREE DRIP LINE.
4. BURY GEOGRID A MINIMUM OF 6" BELOW GROUND SURFACE.



TREE PROTECTION DETAIL

NOT TO SCALE

TYPICAL CONSTRUCTION SEQUENCE FOR SILT-SAVER FRAME & FILTER

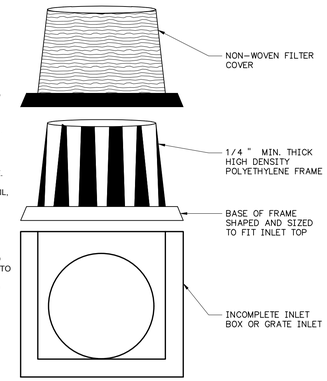
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



INLET SEDIMENT BARRIER DETAIL

NOT TO SCALE

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PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER
10/28/2022

11.02.2022

C8.0

EROSION CONTROL DETAILS

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8005 Morris Hill Road
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www.drivenengineering.com

DRIVEN ENGINEERING PROJECT NO. 21078

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

GENERAL NOTES:

DISCLAIMER

1. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
2. AT CONSTRUCTION ISSUE, THESE DRAWING REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK.

BUILDING DESIGN CRITERIA:

A. CODES

2018 INTERNATIONAL BUILDING CODE
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 531)
ASCE 7-16

B. DESIGN LOADS

ROOF DEAD LOAD	18 PSF
ROOF LIVE LOAD	20 PSF – REDUCIBLE

C. WIND LOADS PER ASCE 7-16 & 2018 IBC
RISK CATEGORY II
ULTIMATE DESIGN WIND SPEED, V_{ult} = 159 MPH ♦
NOMINAL DESIGN WIND SPEED, V_{asd} = 123 MPH ✳
EXPOSURE CATEGORY = B
MEAN ROOF HEIGHT, h = ±17 FEET
ADJUSTMENT FACTOR FOR HEIGHT AND EXPOSURE, λ = 1.00
TOPOGRAPHIC FACTOR, K_{zt} = 1.00
a = ±4 FEET
ROOF SLOPE, θ = 5½ = 26.6°

COMPONENTS AND CLADDING DESIGN PRESSURES ✳✳
REFERENCE: FIGURE 30.5-1 & SECTION 30.5.2 OF ASCE 7-16

ZONE		TRIB. AREA	COMPONENT PRESSURE POSITIVE (+)	COMPONENT PRESSURE NEGATIVE (−)
ROOF	1	10	+21.2	−33.7
		20	+19.4	−32.8
		50	+16.9	−31.6
		100	+14.9	−30.4
	2	10	+21.2	−58.7
		20	+19.4	−54.0
		50	+16.9	−47.8
		100	+14.9	−43.1
	3	10	+21.2	−86.7
		20	+19.4	−81.1
		50	+16.9	−73.6
		100	+14.9	−68.0
WALL	4	10	+36.8	−40.0
		20	+35.1	−38.3
		50	+33.0	−36.0
		100	+31.3	−34.5
	5	10	+36.8	−49.3
		20	+35.1	−46.0
		50	+33.0	−41.7
		100	+31.3	−38.3

REFERENCE FIGURES BELOW:

DESIGN ALL WINDOWS AND DOORS AS IMPACT RESISTANCE FOR PRESSURE ABOVE

DESIGN WIND LOAD NOTES:

♦	PER CITY OF MOBILE, RISK CAT. II BUILDINGS ARE REQUIRED TO BE DESIGNED FOR AN ULTIMATE WIND SPEED (V_{ult}) OF 159 MPH.
✳	REFERENCE SECTION 1609.3.1 AND/ OR TABLE 1609.3.1 OF THE 2018 INTERNATIONAL BUILDING CODE FOR CONVERSION OF V_{ult} TO V_{asd}.
✳✳	SHOWN IN THIS TABLE ARE NET DESIGN WIND PRESSURES, p_{net}, DETERMINED PER SECTION 30.5.2 OF ASCE 7-16. THESE PRESSURES ARE BASED ON ASD WIND SPEED, V_{asd}, PER FIGURE 26.5-1A AND SHALL BE APPLIED NORMAL TO EACH BUILDING SURFACE AS SHOWN IN FIGURE 30.5-1.
✳✳✳	MINIMUM NET DESIGN WIND PRESSURE PER ASCE 7-16 SECTION 30.2.2.

FOUNDATIONS:

1. NO SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE SOIL SUPPORT FOR THE FOUNDATION DESIGN, AND SHALL REPORT UNEXPECTED CONDITIONS TO THE DESIGNER.
2. ALL FOOTINGS, OR PORTIONS THEREOF, BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS.
3. FOOTINGS TO BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
4. ALLOWABLE SOIL BEARING = 1500 psf
5. COMPACT ALL SOILS BELOW SLAB AND FOOTINGS 95% STANDARD PROCTOR DENSITY.
6. ALL SOIL FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

CONCRETE WORK:

1. CONCRETE (NORMAL WEIGHT) COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI UNLESS NOTED.
2. ALL REINFORCING SHALL MEET ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC (WWF) SHALL MEET ASTM A185.
3. CONCRETE COVERAGE OF REINFORCEMENT SHALL BE:
   - FOOTINGS 3" BOTTOM AND SIDES
   - WALLS 1½"
   - SLABS ¾"
   - PEDESTALS 1½" CLEAR OF TIES
4. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PLACEMENT".
5. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR II.
6. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
7. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED PER CRSI AND ACI STANDARDS, INCLUDING CONCRETE COVER AND BAR SUPPORTS. LAP BARS AT ALL SPLICES, INCLUDING CORNER BARS AND DOWELS, IN ACCORDANCE WITH SPLICE SCHEDULE OR IN LIEU THEREOF 40 BAR DIAMETERS. LAP WWF 6" OR ONE FULL MESH, WHICHEVER IS GREATER.

MASONRY:

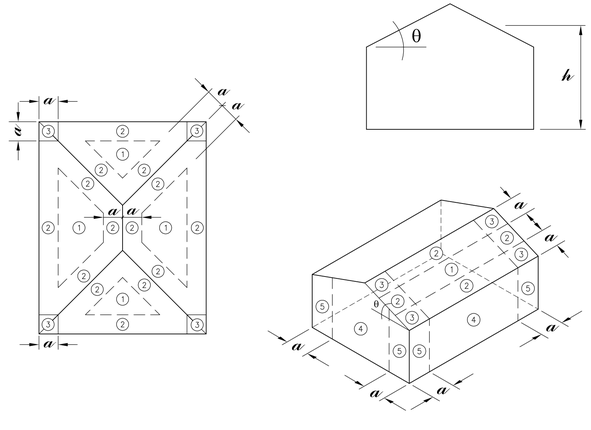
1. HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C- 90 LIGHTWEIGHT, TYPE N-1 WITH A MINIMUM COMPRESSIVE STRENGTH f'm = 1500 PSI.
2. ALL MORTAR FOR USE IN MASONRY SHALL CONFORM TO ASTM C 270, TYPE M OR S. GROUT USED IN MASONRY SHALL BE MINIMUM 2500 PSI AND CONFORM TO ASTM C 476. MINIMUM 8 SACK MIX.
3. REINFORCING BARS TO BE GRADE 60 AND MEET ASTM A 615.
4. GROUT FILL ALL CELLS BELOW GRADE.
5. LAY ALL MASONRY IN A RUNNING BOND PATTERN.
6. PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT AT 16" o.c. FOR TYPICAL HORIZONTAL REINFORCING.
7. PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT AT 8" o.c. FOR TYPICAL HORIZONTAL REINFORCING AT PARAPET WALLS.
8. PROVIDE A MINIMUM OF 1" GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

WOOD ROOF TRUSSES PRODUCTS:

1. WOOD TRUSSES AS INDICATED ON THE PLANS SHALL DESIGNED TO MEET THE SPANS AND DESIGN INDICATED ON THESE DRAWINGS. STORAGE ERECTION AND BRACING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED DRAWINGS AND INSTALLATION RECOMMENDATIONS. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS AS NECESSARY FOR A COMPLETE INSTALLATION OF THE JOISTS.
2. ALL HIGH PERFORMANCE SPECIALTY MEMBERS AS INDICATED ON THE PLANS SHALL BE FROM THE TRUSS MANUFACTURER. "LVL" MEMBERS SHALL BE LAMINATED VENEER LUMBER MEMBERS; "PSL" MEMBERS SHALL BE PARALLEL STRAND LUMBER MEMBERS; "LSL" MEMBERS SHALL BE TIMBERSTRAND LAMINATED AND PRESSED MEMBERS. ALL MEMBERS SHALL BE ONE CONTINUOUS PIECE OF SIZE INDICATED ON THE DRAWINGS. ALL ADHESIVES USED TO MANUFACTURE SPECIALTY PRODUCTS SHALL BE WATERPROOF.
3. SHOP DRAWINGS SHALL BE PREPARED FOR THE FLOOR AND TRUSS ROOF SYSTEM. SHOP DRAWINGS SHALL INCLUDE FRAMING LAYOUT, INSTALLATION DETAILS, AND RELATED REQUIREMENTS.
4. SHOP DRAWINGS
   A. INCLUDE THE FOLLOWING ON SUBMITTED SHOP DRAWINGS
      a. STAMP AND SIGNATURE OF ENGINEER RESPONSIBLE FOR PREPARATION OF ALL TRUSS DESIGN AND LAYOUT DRAWINGS CERTIFYING THAT THE DESIGN AND LAYOUT ARE IN ACCORDANCE WITH THE STRUCTURAL PARAMETERS AND DRAWINGS.
      b. ALLOWABLE LOADS IN LBS/EFFECTIVE NAIL OR LBS/SQ. IN FOR LUMBER AND PLATES USED AS ALLOWED BY ICBO AND CURRENT ICBO REPORT NUMBER AND BY SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL.
      c. TOP AND BOTTOM CHORD DESIGN LOADS IN PLF.
      d. LUMBER SPECIES AND GRADES USED.
   B. ALL TRUSS SHOP DRAWINGS MUST BE REVIEWED AND WRITTEN APPROVAL PROVIDED BY GENERAL CONTRACTOR PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO STRUCTURAL ENGINEER.
5. ALTERNATE PRODUCTS BY OTHER MANUFACTURERS WITH COMPARABLE DESIGN PROPERTIES MAY BE SUBMITTED FOR REVIEW BY THE ENGINEER. ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER/ ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS.

DESIGN REQUIREMENTS:

DL = 10 PSF TOP CHORD
LL = 16 PSF TOP CHORD
WL = 20 PSF NET TOP CHORD UPLIFT
DL = 8 PSF BOTTOM CHORD
LL = 5 PSF BOTTOM CHORD



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STRUCTURAL & CIVIL ENGINEERS
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942
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PROJECT # 22030

LUMBER:

1. UNLESS NOTED OTHERWISE, ALL LUMBER SHALL BE #2 KD SOUTHERN YELLOW PINE OR #2 SPRUCE-PINE-FIR WITH A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
2. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED. ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT SHALL BE PRESSURE TREATED.
3. EXTERIOR LOAD-BEARING STUD FRAMING SHALL BE NO. 2 SYP OR SPF: Fb=1000 PSI, E=1400 KSI.
4. INTERIOR LOAD-BEARING STUD FRAMING SHALL BE NO. 2 SYP OR SPF, SIZE SHOWN ON PLANS: Fb=1000 PSI, E=1400 KSI.
5. ROOF DECK SHALL BE MINIMUM ⅝" EXTERIOR GRADE PLYWOOD ATTACHED WITH 8d RING SHANK NAILS AS SHOWN ON ATTACHMENT DETAILS.
6. INSTALL SIMPSON PSC CLIPS OR USP MODEL PC SHEATHING CLIPS AT ALL UNSUPPORTED EDGES OF ROOF DECK (ONE PER SPAN).
7. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL SHEATHING TO BE ½" PLYWOOD ATTACHED DIRECTLY TO WALL FRAMING MEMBERS. BLOCK ALL PANEL EDGES AND NAIL WITH 8d COMMON NAILS @ 4"o.c. AT ALL PANEL EDGES, BLOCKING, AND TOP & BOTTOM PLATES WITH FIELD NAILING @ 12"o.c.
8. ALL PLYWOOD PANELS SHALL BE INSTALLED IN ACCORDANCE WITH APA RECOMMENDATIONS AND RELATED SPECIFICATIONS. ORIENTED STRAND BOARD "OSB" MAY BE SUBSTITUTED FOR PLYWOOD WHERE APPROVED BY THE ARCHITECT/ENGINEER AND PROVIDED THE PANEL CONFORM TO THE APPROPRIATE APA RAINS FOR THE INTENDED APPLICATION.
9. PROVIDE A MINIMUM OF 2 STUDS NAILED TOGETHER BENEATH ALL HEADERS UNLESS NOTED OTHERWISE. USE AT LEAST 2-2x10 HEADER FOR ALL OPENINGS UP TO 4'-0" WIDE IN BEARING WALLS. USE AT LEAST 3-2x10 HEADER FOR ALL OPENINGS UP TO 8'-0" WIDE IN BEARING WALLS.
10. ALL MULTIPLE PIECE WOOD BEAMS SHALL BE CONNECTED TOGETHER WITH MINIMUM TWO ROWS OF 16d NAILS @ 12"o.c. (U.N.O.).
11. AS A MINIMUM, ANCHOR AND NAIL FRAMING SHALL COMPLY WITH "TABLE R602.3.(1) – FASTENING SCHEDULE" OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.
12. ALL BOLTS, NAILS, JOIST HANGERS, CLIPS, STRAPS, ETC THAT ARE IN CONTACT WITH PRESSURE TREATED MATERIAL SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
13. ALL CONNECTORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER RECOMMENDATIONS. SIZE, QUANTITY, AND LOCATION OF NAILS AND FASTENERS SHALL CONFORM TO THE MANUFACTURERS PUBLISHED LITERATURE.
14. LVL BEAM SHALL BE 2950 Fb-2.0E AS MANUFACTURED.
15. TREATED GLULAMS TO BE MINIMUM 2400 PSI Fb & 1.8E MINIMUM
16. ALL EXTERIOR LVL'S TO BE WRAPPED & PROTECTED FROM THE WEATHER OR USE TREATED GLULAMS.
17. ROOF SHINGLES TO BE HIGH WIND CLASS "H" WITH A MINIMUM OF 6 FASTENERS EACH.

STRUCTURAL DRAWING INDEX:

S0.0 – STRUCTURAL NOTES
S1.0 – FOUNDATION/CEILING PLAN
S2.0 – ROOF FRAMING PLAN
S3.0 – SECTIONS AND DETAILS
S4.0 – SECTIONS AND DETAILS
S5.0 – SECTIONS AND DETAILS

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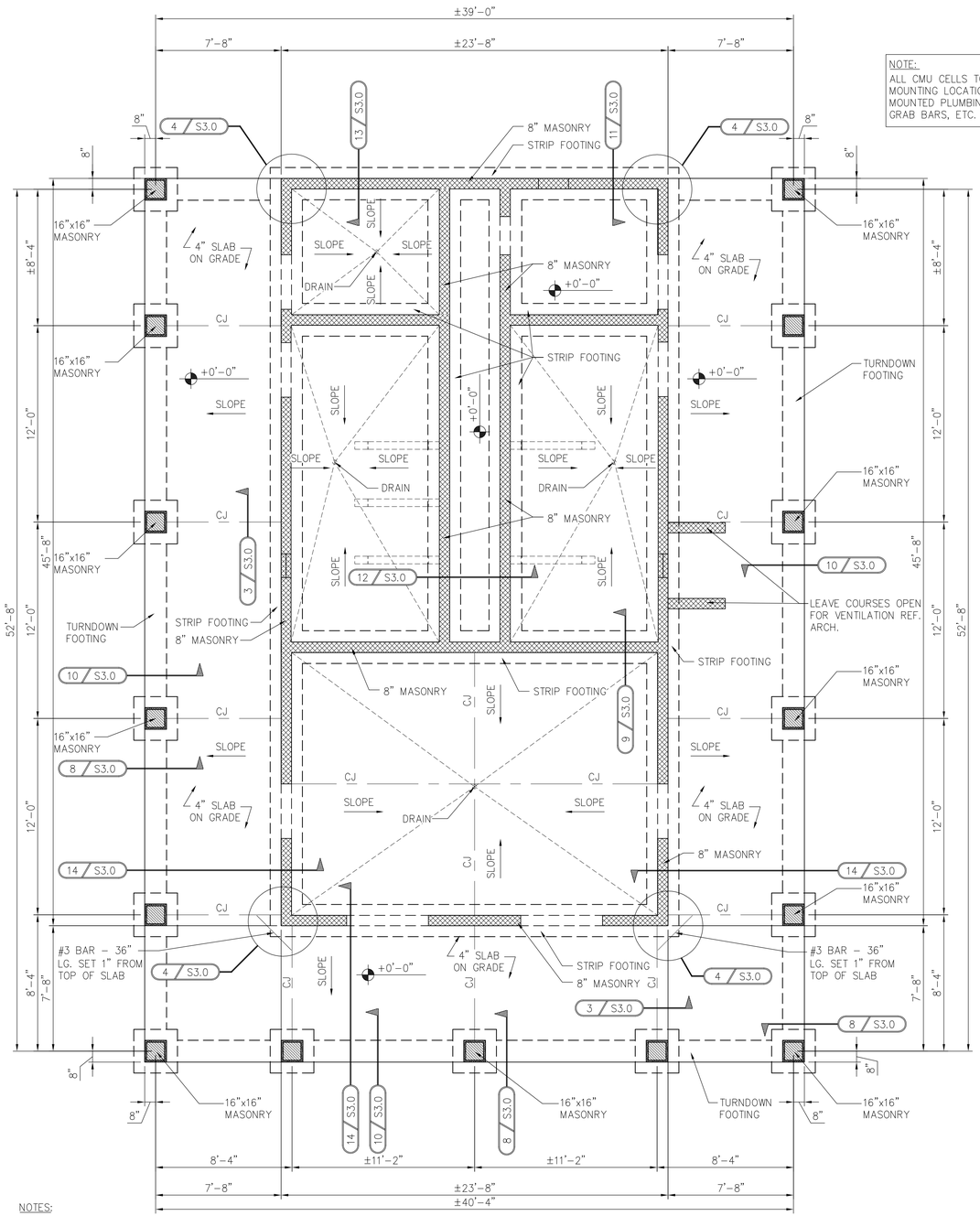
504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED 11-2-22 NO. 24034 PROFESSIONAL ENGINEER JASON S. BARTON

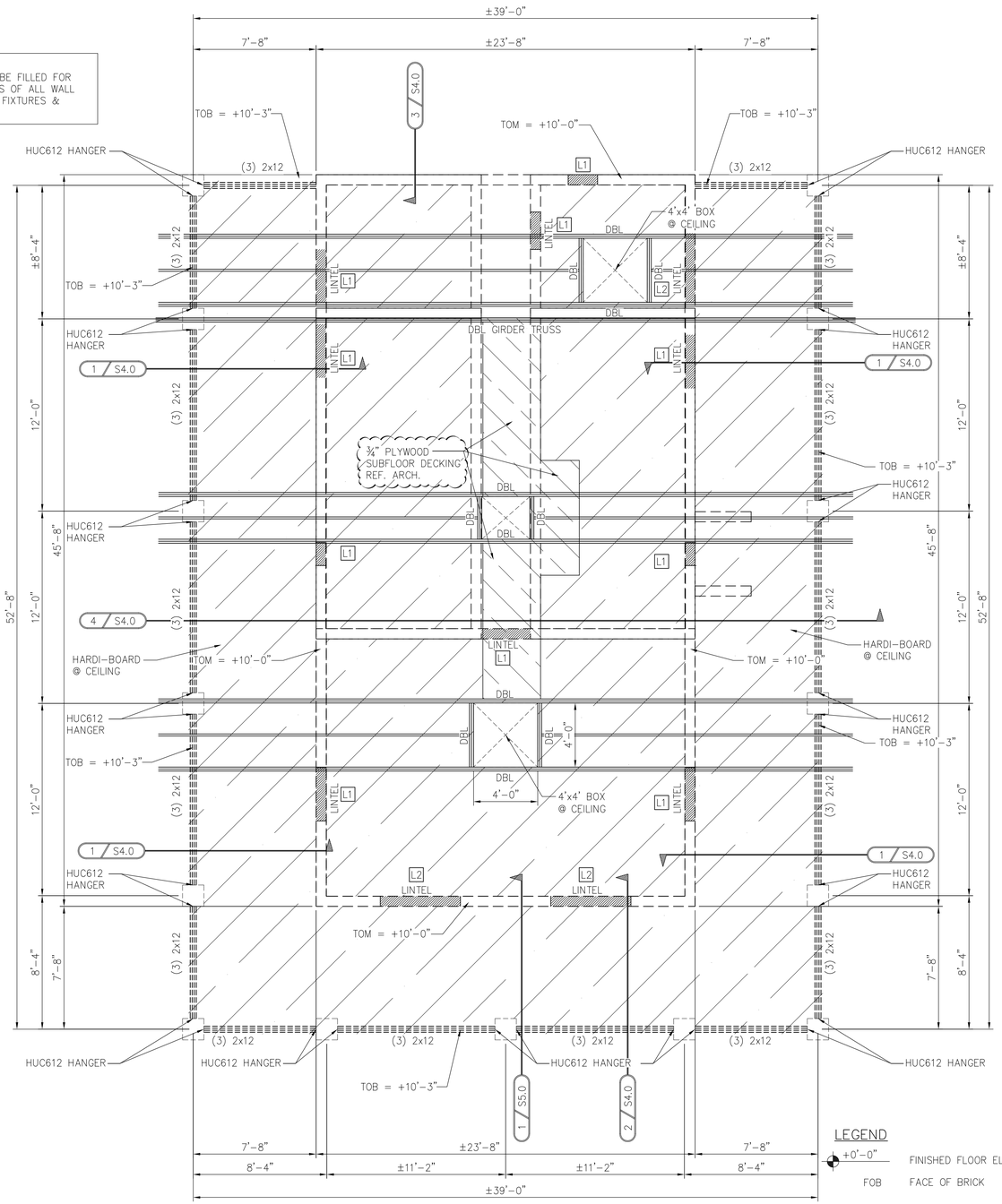
11.02.2022

S0.0

TITLE SHEET



NOTE:
ALL CMU CELLS TO BE FILLED FOR MOUNTING LOCATIONS OF ALL WALL MOUNTED PLUMBING FIXTURES & GRAB BARS, ETC.



NOTES:
1. VERIFY ALL DIMENSIONS & FLOOR ELEVATIONS WITH ARCHITECTURAL PRIOR TO STARTING CONSTRUCTION.
2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF STUDS OR FACE OF SLAB U.N.O.

SLAB-ON-GRADE CONSTRUCTION

4" CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF FLAT SHEETS PLACED ON BRICKS/CHAIRS. PLACE OVER VAPOR BARRIER AND COMPACTED STRUCTURAL FILL MATERIAL. FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

FOUNDATION PLAN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O.

NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

CEILING FRAMING PLAN

SCALE: 1/4"=1'-0"
TOP OF WALL = +10'-0" U.N.O. = TRUSSES BEARING

LEGEND

+0'-0"	FINISHED FLOOR ELEVATION
FOB	FACE OF BRICK
	HARDI-BOARD @ CEILING
TOM	TOP OF MASONRY
TOB	TOP OF BEAM
L1	LINTEL SCHEDULE

SCALE: 1/4" = 1'-0"
4' 2' 0 2' 4' 8'

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PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

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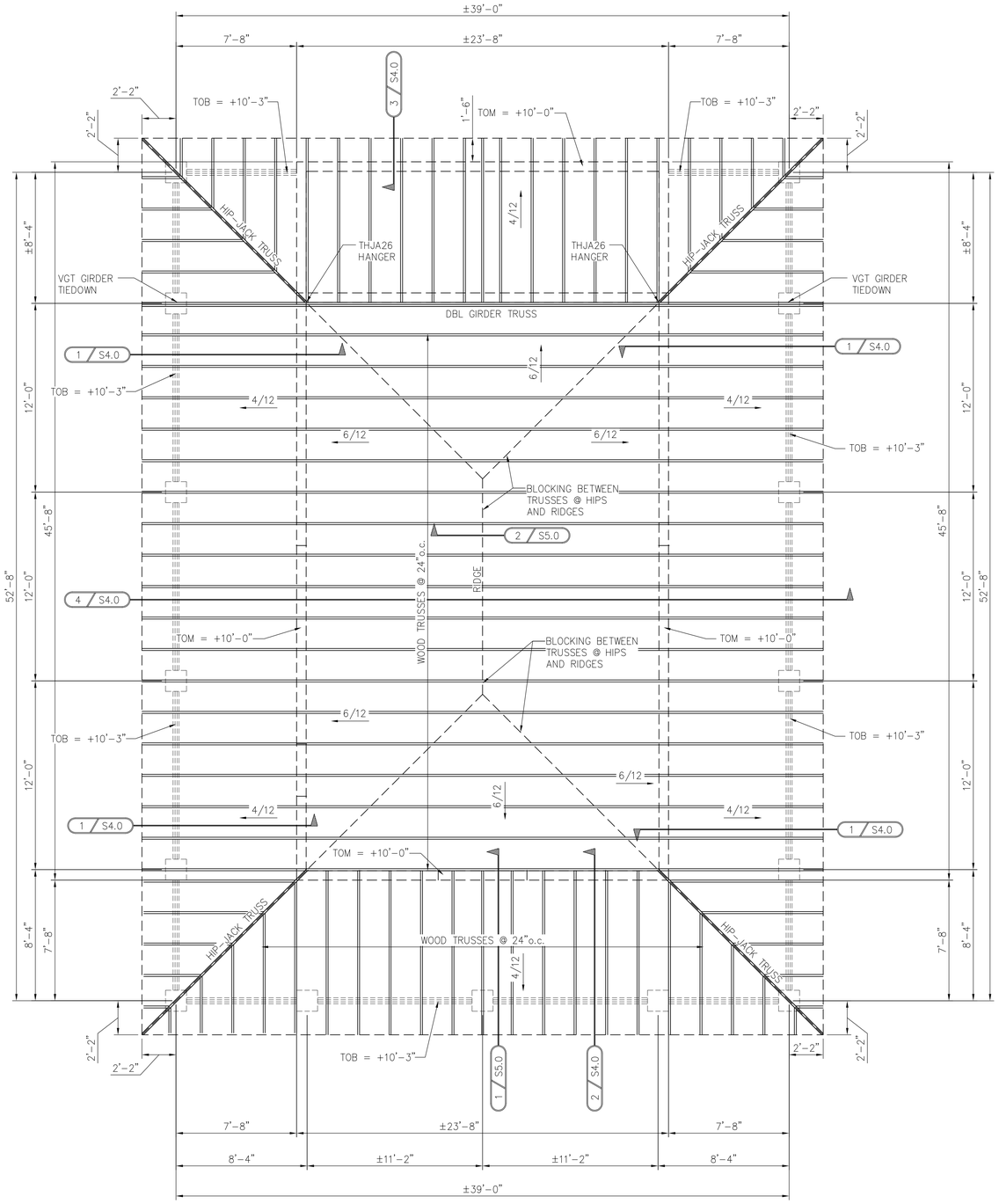
FOUNDATION/CEILING FRAMING PLAN



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"
TOP OF WALL = +10'-0" U.N.O. = TRUSSES BEARING

NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

TYPICAL ROOF DECK:

¾" EXT. GRADE PLYWOOD. ATTACH W/ 8d RING SHANK NAILS AS SHOWN ON ROOF FRAMING DETAIL.

LEGEND

TOM	TOP OF MASONRY
TOB	TOP OF BEAM

SCALE: 1/4" = 1'-0"

4' 2' 0 2' 4' 8'

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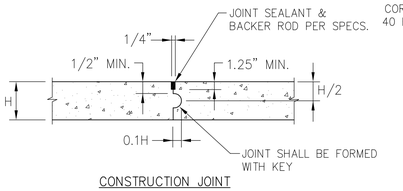
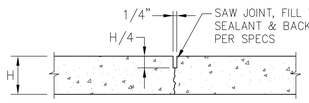
ROOF FRAMING PLAN



CONSTRUCTION JOINT

DETAIL 2 S3.0

NOT TO SCALE

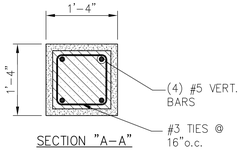


NOTE: SAW CUT JOINT WITHIN 4–12 HOURS AFTER PLACING CONCRETE

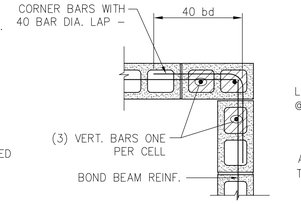
CONTROL JOINT

DETAIL 3 S3.0

NOT TO SCALE



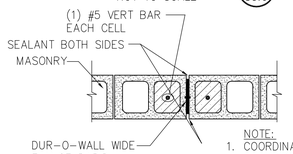
SECTION "A–A"



TYPICAL CMU CORNER REINF.

DETAIL 4 S3.0

NOT TO SCALE



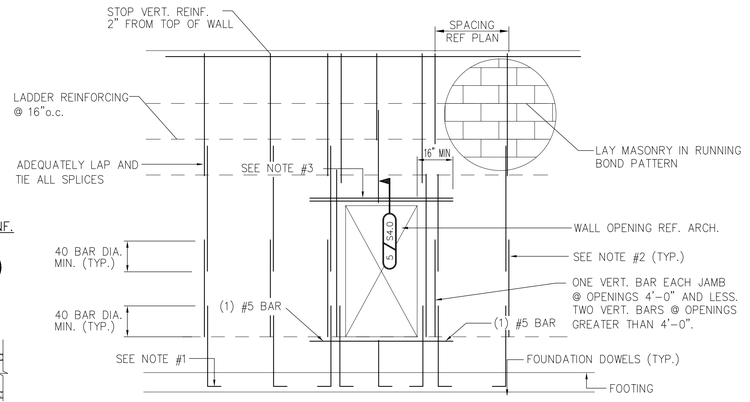
NOTE:

1. COORDINATE JOINT LOCATIONS WITH ARCHITECT
2. STOP CONTROL JOINTS AT LINTELS AND BOND BEAMS.

MASONRY CONTROL JOINT

DETAIL 5 S3.0

NOT TO SCALE



TYPICAL EXTERIOR MASONRY WALL REINFORCING

DETAIL 6 S3.0

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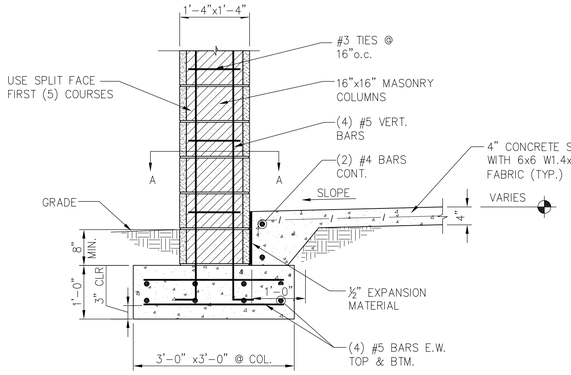
MASONRY WALL REINFORCING NOTES

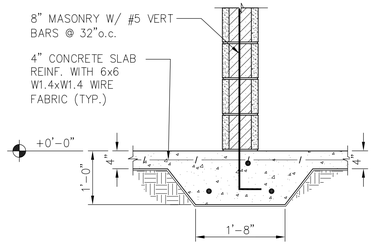
1. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED IN CENTER OF CMU WALL U.N.O. WITH ACI STANDARD HOOK. PLACE HOOKS DIRECTLY ON TOP OF BOTTOM LAYER OF FOOTING REINFORCING.
2. TYPICAL VERTICAL WALL REINFORCEMENT TO BE PLACED IN CENTER OF WALL U.N.O. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT FOR CLARITY, ALL VERTICAL AND HORIZONTAL REINFORCING IS SHOWN CONTINUOUS, HOWEVER VERTICAL SHALL BE LAPPED AND SPLICED TO ACCOMODATE MAXIMUM GROUT LIFTS OF 4'–0" AND HORIZONTAL BARS SHALL BE LAPPED AND SPLICED AS REQUIRED. ALL VERTICAL BARS SHALL BE ACCURATELY LOCATED WITHIN THE CELL WITH REBAR POSITIONERS PRIOR TO PLACING GROUT IN CELLS. ALL LAPS SHALL BE 40 BAR DIAMETERS UNLESS NOTED OTHERWISE
3. REFERENCE CMU LINTEL SCHEDULE FOR SIZE, LOCATION, AND QUANTITY OF LINTEL REINFORCEMENT.
4. ALL VERTICAL REINFORCING SHALL STOP 2" CLEAR FROM TOP OF WALL UNLESS NOTED.
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE AT 16"o.c. 8"o.c. @ PARAPET WALLS.
6. REFERENCE SECTIONS AND DETAILS FOR SIZE AND LOCATION OF BOND BEAMS AND QUANTITY OF REINFORCING. PROVIDE HORIZONTAL BOND BEAMS IN ALL INTERIOR MASONRY WALLS, 8" HIGH WITH (1)–#5 CONT. AT TOP OF WALL. PROVIDE CORNER BARS AT ALL BOND BEAM INTERSECTIONS TO MATCH HORIZONTAL REINF.
7. REFERENCE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS.



COLUMN @ PORCH

SECTION 8 S3.0

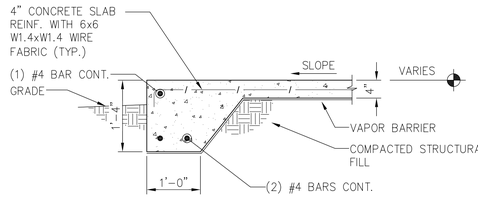
SCALE: 3/4"=1'–0"



THICKENED SLAB

SECTION 9 S3.0

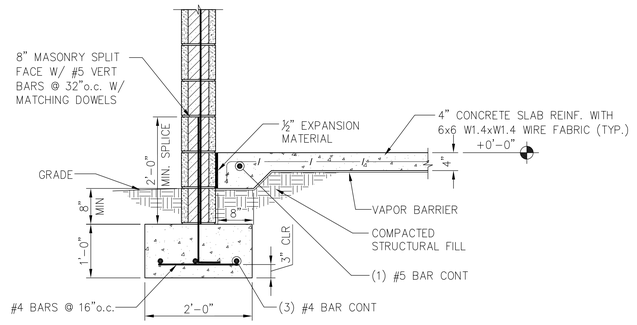
SCALE: 3/4"=1'–0"



EXTERIOR TURNDOWN FOOTING

SECTION 10 S3.0

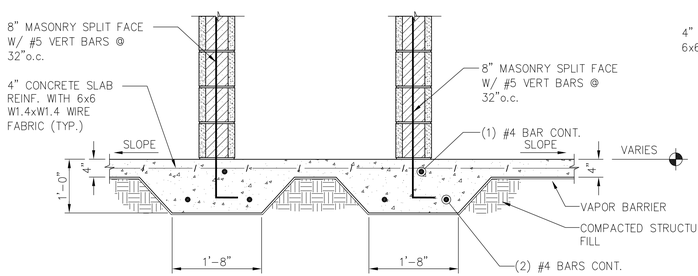
SCALE: 3/4"=1'–0"



EXTERIOR WALL

SECTION 11 S3.0

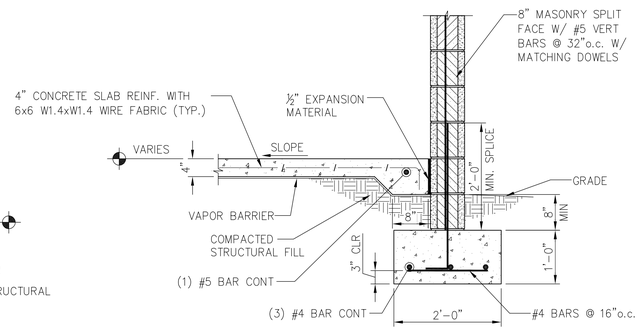
SCALE: 3/4"=1'–0"



THICKENED SLAB

SECTION 12 S3.0

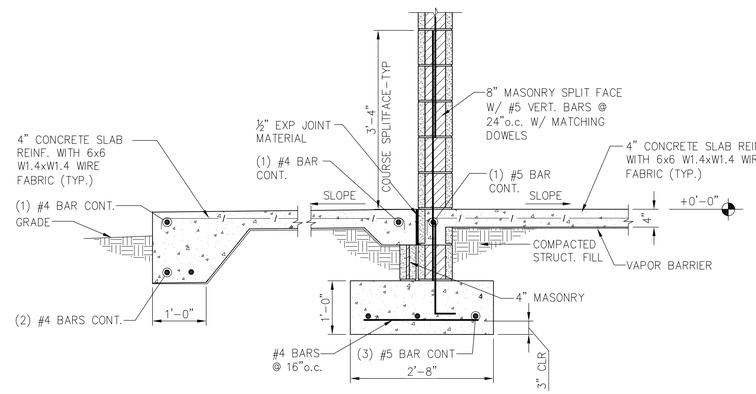
SCALE: 3/4"=1'–0"



EXTERIOR WALL

SECTION 13 S3.0

SCALE: 3/4"=1'–0"



SLOPE @ EXTERIOR WALL

SECTION 14 S3.0

SCALE: 3/4"=1'–0"

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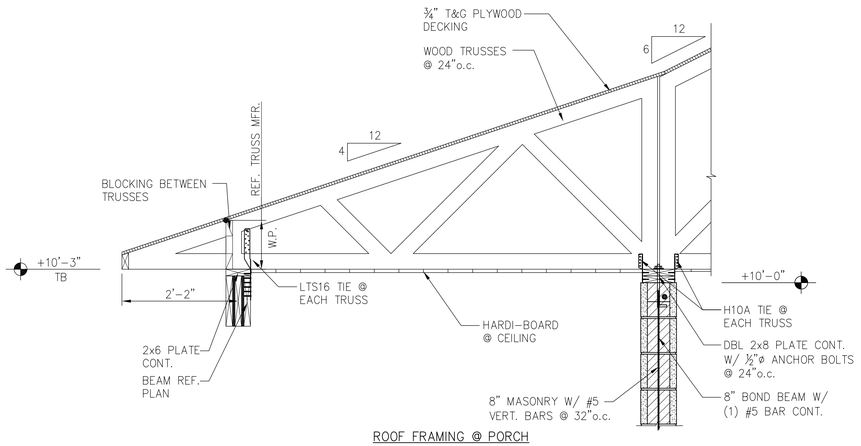
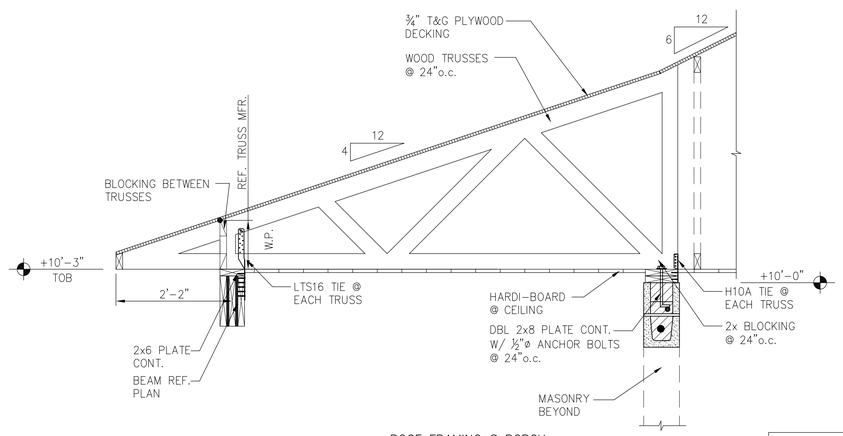
S3.0

SECTIONS AND DETAILS



ROOF FRAMING @ PORCH

SECTION 1 S4.0
SCALE: 3/4"=1'-0"



ROOF FRAMING @ PORCH

SECTION 2 S4.0
SCALE: 3/4"=1'-0"

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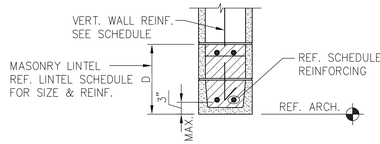


MASONRY LINTEL SECTION

DETAIL 5 S4.0
NOT TO SCALE

CMU LINTEL SCHEDULE

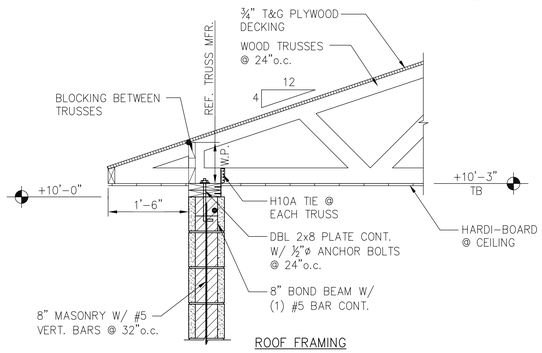
	WALL THICKNESS	CLEAR SPAN	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING
L1	8"	4'-0" MAX.	8"	1-#5	———
L2	8"	6'-0" MAX	16"	1-#5	1-#5

MASONRY LINTEL NOTE:

GROUTED LINTEL BLOCKS IN EXTERIOR WALLS SHALL EXTEND A MINIMUM OF 16 INCHES BEYOND FACE OF OPENING EACH SIDE. THE FIRST TWO VERTICAL CELLS ON EACH SIDE OF THE OPENING SHALL BE GROUTED AND CONTAIN ONE #5 IN EACH CELL CONT. TO THE TOP OF THE WALL UNLESS NOTED OTHERWISE.

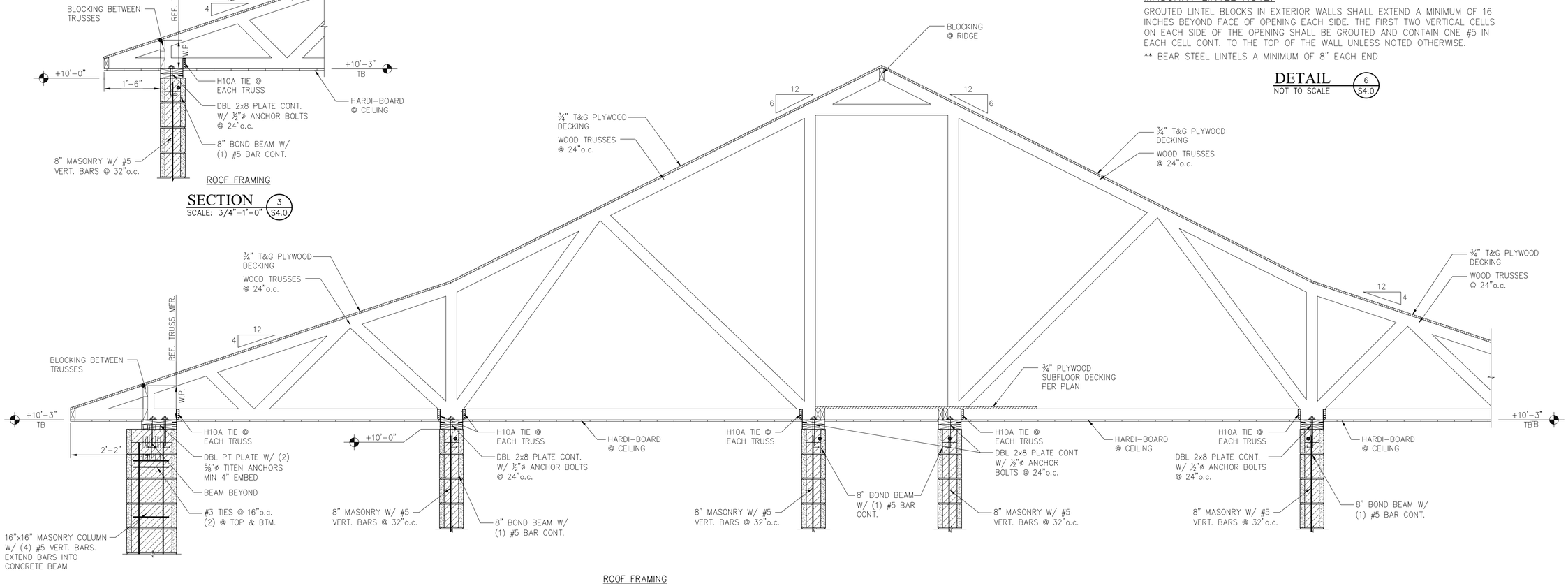
** BEAR STEEL LINTELS A MINIMUM OF 8" EACH END

DETAIL 6 S4.0
NOT TO SCALE



ROOF FRAMING

SECTION 3 S4.0
SCALE: 3/4"=1'-0"



ROOF FRAMING

SECTION 4 S4.0
SCALE: 3/4"=1'-0"

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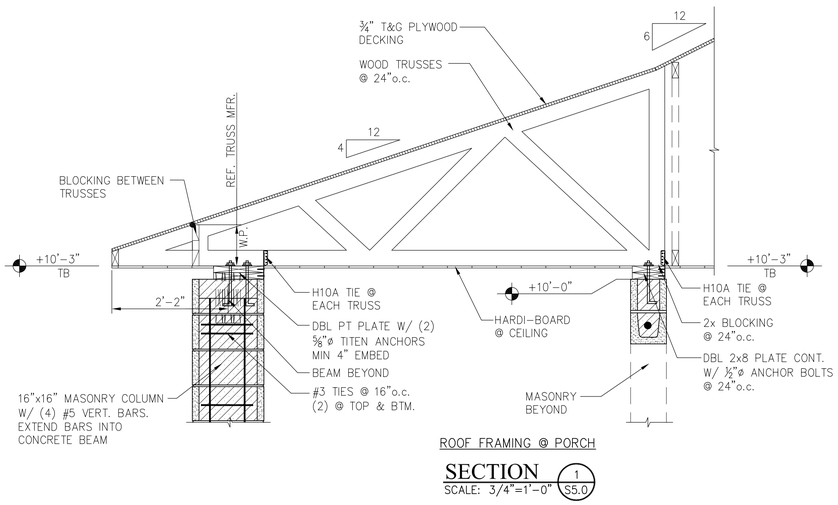
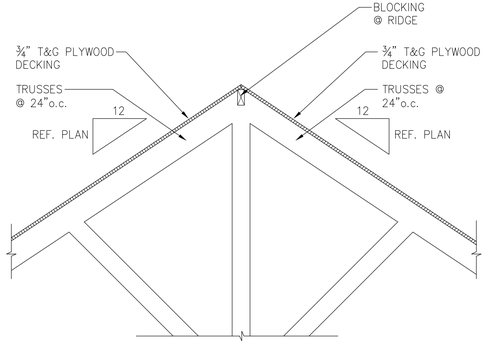
SECTIONS AND DETAILS



ROOF FRAMING @ PORCH

SECTION 1/S5.0

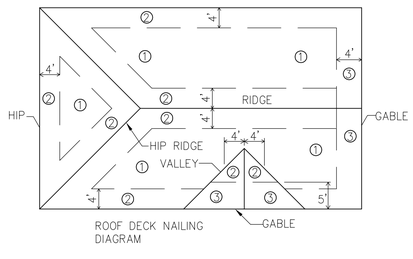
SCALE: 3/4"=1'-0"



ROOF RIDGE SECTION

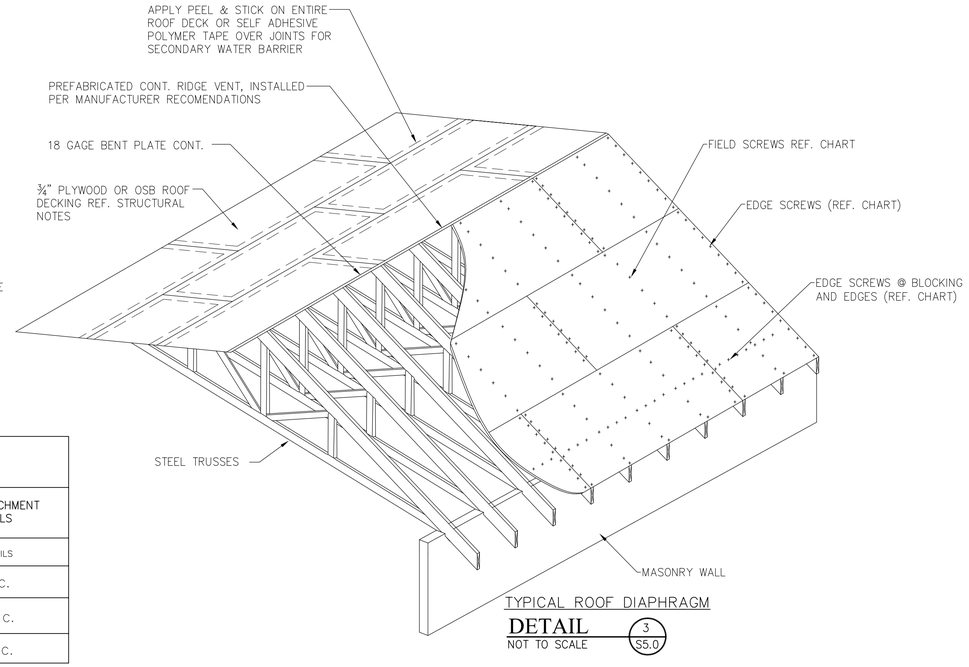
SECTION 2/S5.0

SCALE: 3/4"=1'-0"



ROOF DECK NAILING DIAGRAM

ROOF SHEATHING ATTACHMENT REQUIREMENTS			
THREE SECOND GUST, 123 MPH (ASD) 159 MPH (ULT) WIND SPEED		STRUCTURAL SHEATHING ATTACHMENT WITH 8d RING SHANK NAILS	
	RAFTER/TRUSS SPACING (INCHES o.c.)	EDGE NAILS	FIELD NAILS
① INTERIOR ZONE	24"o.c.	6"o.c.	6"o.c.
② PERIMETER/ EDGE ZONE	24"o.c.	4"o.c.	6"o.c.
③ GABLE ENDWALL RAKE OR RAKE TRUSS W/LOOKOUTBLOCK		4"o.c.	4"o.c.



TYPICAL ROOF DIAPHRAGM

DETAIL 3/S5.0

NOT TO SCALE

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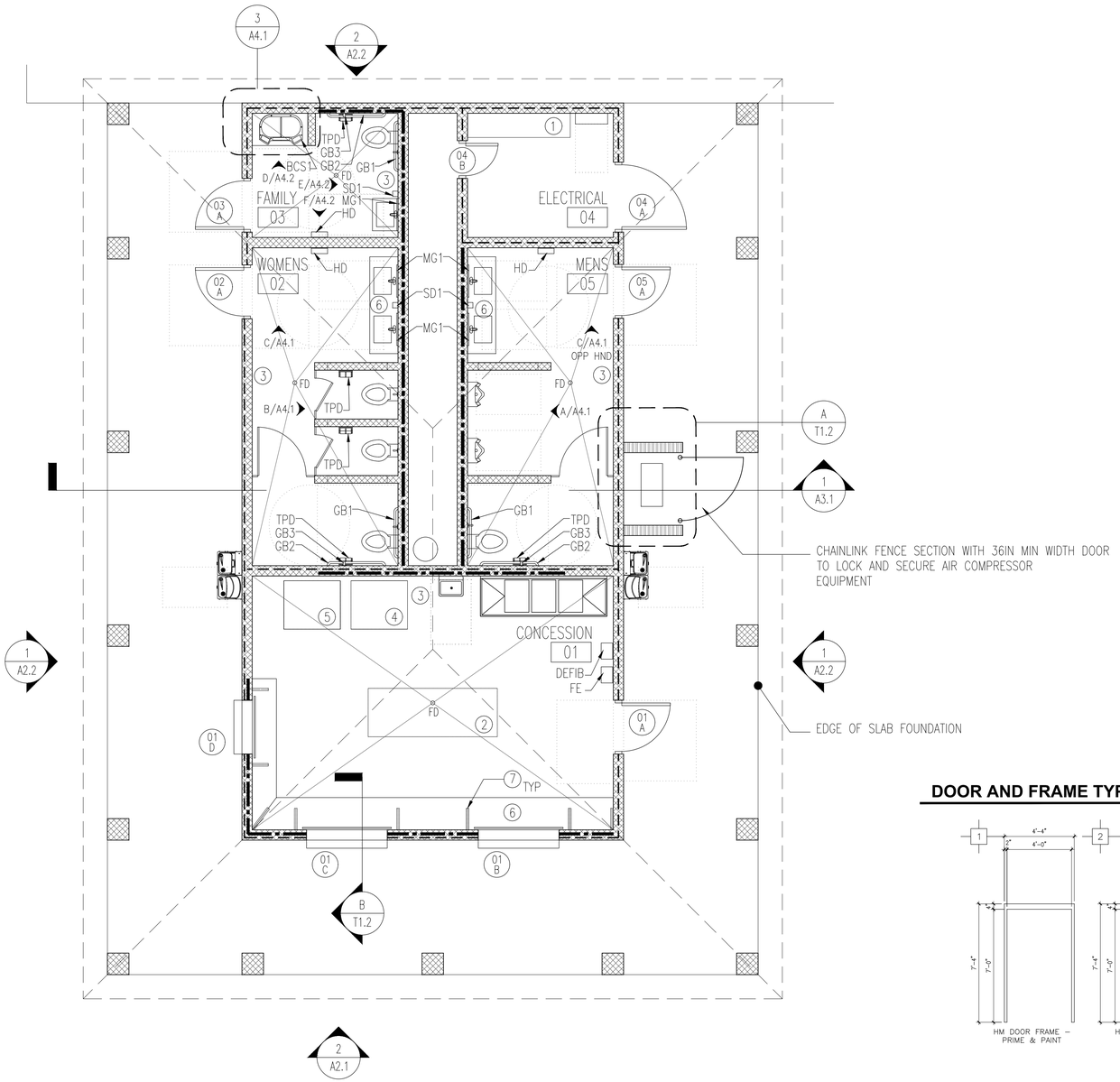
11.02.2022

S5.0

SECTIONS AND DETAILS



LEGEND

- INDICATES CONCRETE FILLED CELLS FOR WALL MTD PLUMBING FIXTURES & TOILET ACCESSORIES
- INDICATES VERMICULITE FILLED CMU CELL WALLS
- 12IN X 12IN CMU COLUMNS, SEE STRUCTURAL 8" SPLIT FACE CMU FOR BOTTOM (5) COURSES & 8" SMOOTH FACE CMU TOP COURSES
- 8" SPLIT FACE CMU FOR BOTTOM (5) COURSES & 8" SMOOTH FACE CMU TOP COURSES (PERIMETER ONLY) OR 8" OR 6" INTERIOR PARTITION WALLS SMOOTH FACE CMU
- 8" SCREEN BLOCK CMU FOR AIR COMPRESSOR SCREEN WALLS

KEY NOTES

1. WOOD SHELVING – NIC
2. 3FT X 8FT SS TABLE – NIC
3. RECESSED WALL HYDRANT IN LOCK BOX, SEE PLUMBING DESIGN
4. REFRIGERATOR – NIC
5. FREEZER – NIC
6. PREFABRICATED CONCRETE COUNTERTOP SECTION 06415 – "TRUEFORM" CLASSIC FINISH, GRAPHITE COLOR
7. COUNTERTOP SUPPORTS AND SEAMS PER MANF DESIGN – PREFAB BRACKETS OR CUSTOM FABRICATED STEEL BRACKET (SHOWN DTL E/T1.2) L2 1/2X2 1/2X3/16 ANGLES BOLTED TO CMU WALL W/ 3/8"ø GALV STL ANGLE – 3 1/2" MIN.

BATHROOM ACCESSORIES

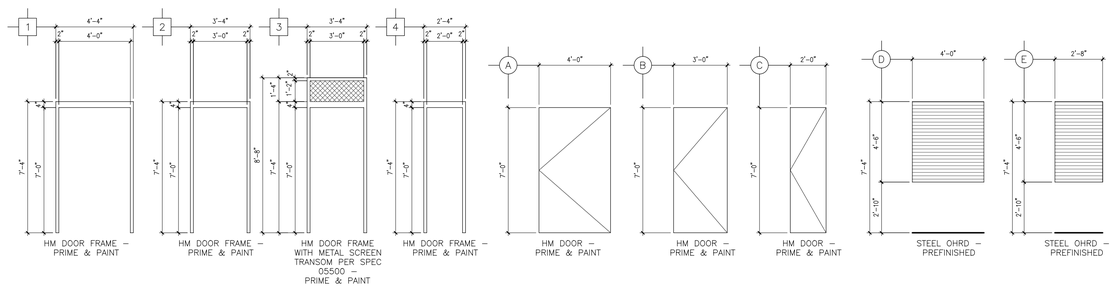
SEE SECTION 10280 FOR ACCESSORIES MODEL NUMBERS. KEYED TO FLOOR PLAN A1.1 AND INT ELEVATIONS A4.1 & A4.2

GB1	GRAB BAR – 36" MIN	HD	AUTOMATIC HAND DRYER, SEE ELECTRICAL
GB2	GRAB BAR – 18" MIN	BST	BABY CHANGING STATION – KOALA KARE KB200 HORZ MOUNT
GB3	GRAB BAR – 42" MIN	TPD	TOILET PAPER DISPENSER – CUSTOM FABRICATED OWNER FURNISHED/ OWNER INSTALLED
MR1	MIRROR – 18" X 30"		
SD1	MANUAL SOAP DISPENSER – AMERICAN STANDARD MODEL NO. 0347	FD	FLOOR DRAIN, SEE PLUMBING
		HB	HOSE BIB, SEE PLUMBING
DEFIB	DEFIBULATOR & CABINET, SEE SECTION 10435	FE	FIRE EXTINGUISHER, SEE SECTION 10525

DOOR AND FRAME SCHEDULE

MARK	TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FINISH	SET NO. (SPEC 08711)	NOTES
01A	B	3'–0"	7'–0"	1 3/4"	HM	PT–1	2	HM	PT1	3	2
01B	D	4'–0"	4'–6"	––	STL	PREFIN	––	––	––	––	1
01C	D	4'–0"	4'–6"	––	STL	PREFIN	––	––	––	––	1
01D	E	2'–8"	4'–6"	––	STL	PREFIN	––	––	––	––	1
02A	B	3'–0"	7'–0"	1 3/4"	HM	PT–1	3	HM	PT1	1A	2
03A	B	3'–0"	7'–0"	1 3/4"	HM	PT–1	3	HM	PT1	1B	2
04A	A	4'–0"	7'–0"	1 3/4"	HM	PT–1	1	HM	PT1	2	2
04B	C	2'–0"	7'–0"	1 3/4"	HM	PT–1	4	HM	PT1	4	2
05A	B	3'–0"	7'–0"	1 3/4"	HM	PT–1	3	HM	PT1	1A	2

DOOR AND FRAME TYPES



SCHEDULE NOTES

1. INSTALL STEEL BAR VANDALISM PREVENTION ROD AT SILL OF SERVICE COUNTER OHRD PER DETAIL B/T1.2
2. ALL HM DOORS AND FRAMES TO BE PAINTED PT1
3. ALL PREFINISH ALUMINUM OVERHEAD ROLL–UP COUNTERTOP DOORS COLOR TO BE SELECTED BY ARCHITECT.

MATERIAL ABBREVIATIONS

HM	HOLLOW METAL
PT1	PRIME AND PAINT PER 09900 – ARCHITECTURAL BROWN, SEMI–GLOSS
PT3	PRIME AND PAINT PER 09900 – WIEMER GREY, GLOSS
PT4	PRIME AND PAINT PER 09900 – WHITE, GLOSS
FCS–1	MONOLITHIC FLOOR COATING SYSTEM 09670 – "BESALT GREY"
CONC	CONCRETE FLOOR, SEALED 03365
CMU–EXP	EXPOSED CMU WALL
PLYWD–1	3/4 IN MARINE GRADE PLYWOOD WITH 1X TREATED WD BATTEN AT SEAMS
PL1	TOILET PARTIONS, PHENOLIC & SS HARDWARE, COLOR BLACK, SEE SECTON 10172

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL N	WALL E	WALL S	WALL W	CEILING MATERIAL	CEILING HGT	REMARKS
01	CONCESSION	FCS–1	FCS–1	PT4	PT4	PT4	PT4	PLYWD–1, PT4	10'–0"	
02	WOMENS TOILET	FCS–1	FCS–1	PT4	PT4	PT4	PT4	PLYWD–1, PT4	10'–0"	
03	FAMILY TOILET	FCS–1	FCS–1	PT4	PT4	PT4	PT4	PLYWD–1, PT4	10'–0"	
04	ELECTRICAL CLOSET	CONC	––	CMU–EXP	CMU–EXP	CMU–EXP	CMU–EXP	PLYWD–1, PT4	10'–0"	
05	MENS TOILET	FCS–1	FCS–1	PT4	PT4	PT4	PT4	PLYWD–1, PT4	10'–0"	
06	PLUMBING CHASE	CONC	––	CMU–EXP	CMU–EXP	CMU–EXP	CMU–EXP	––	––	

1 FLOOR PLAN - NEW

SCALE: 1/4"=1'–0"

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PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

STATE OF ALABAMA
KARRIE K. MAURIN
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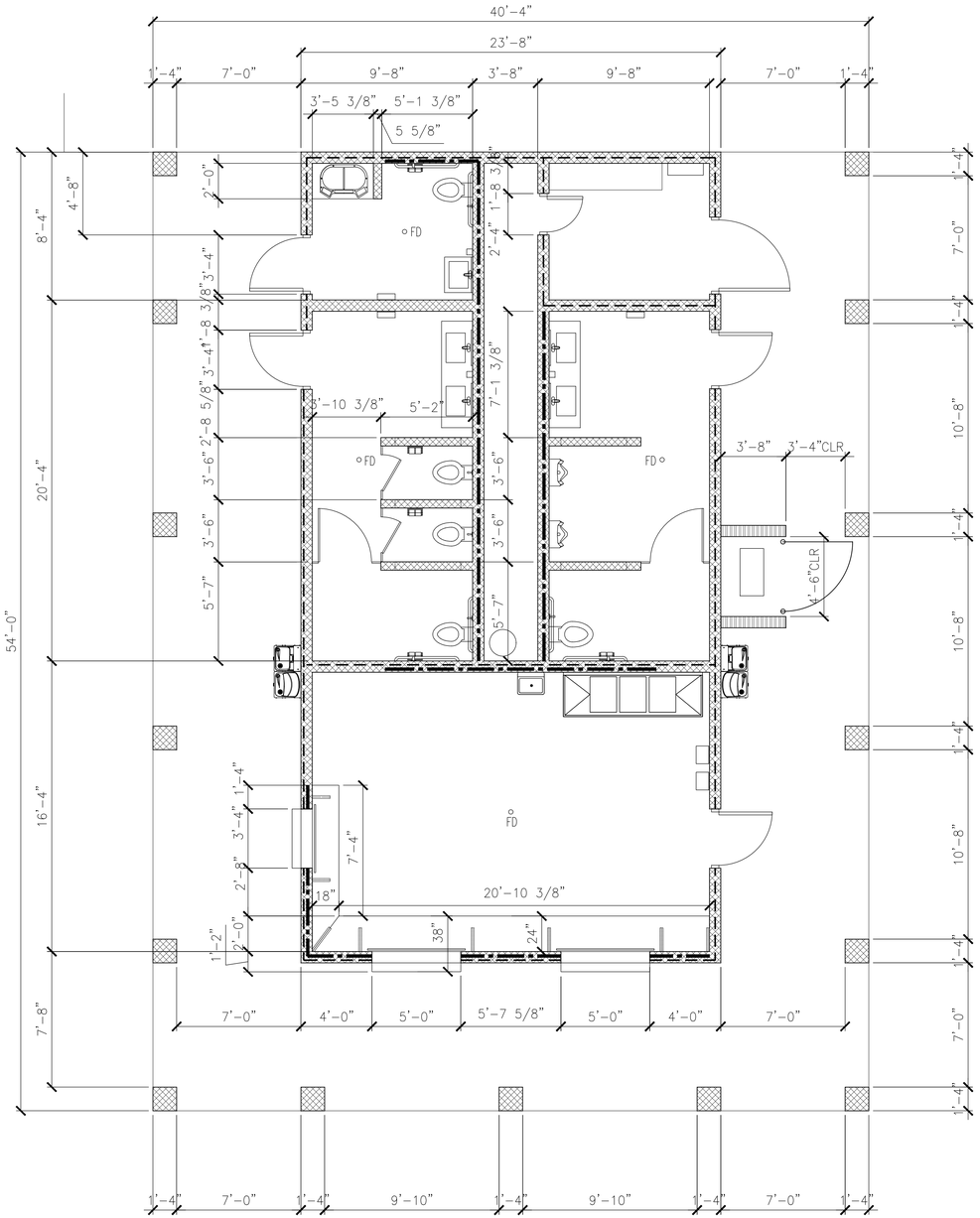
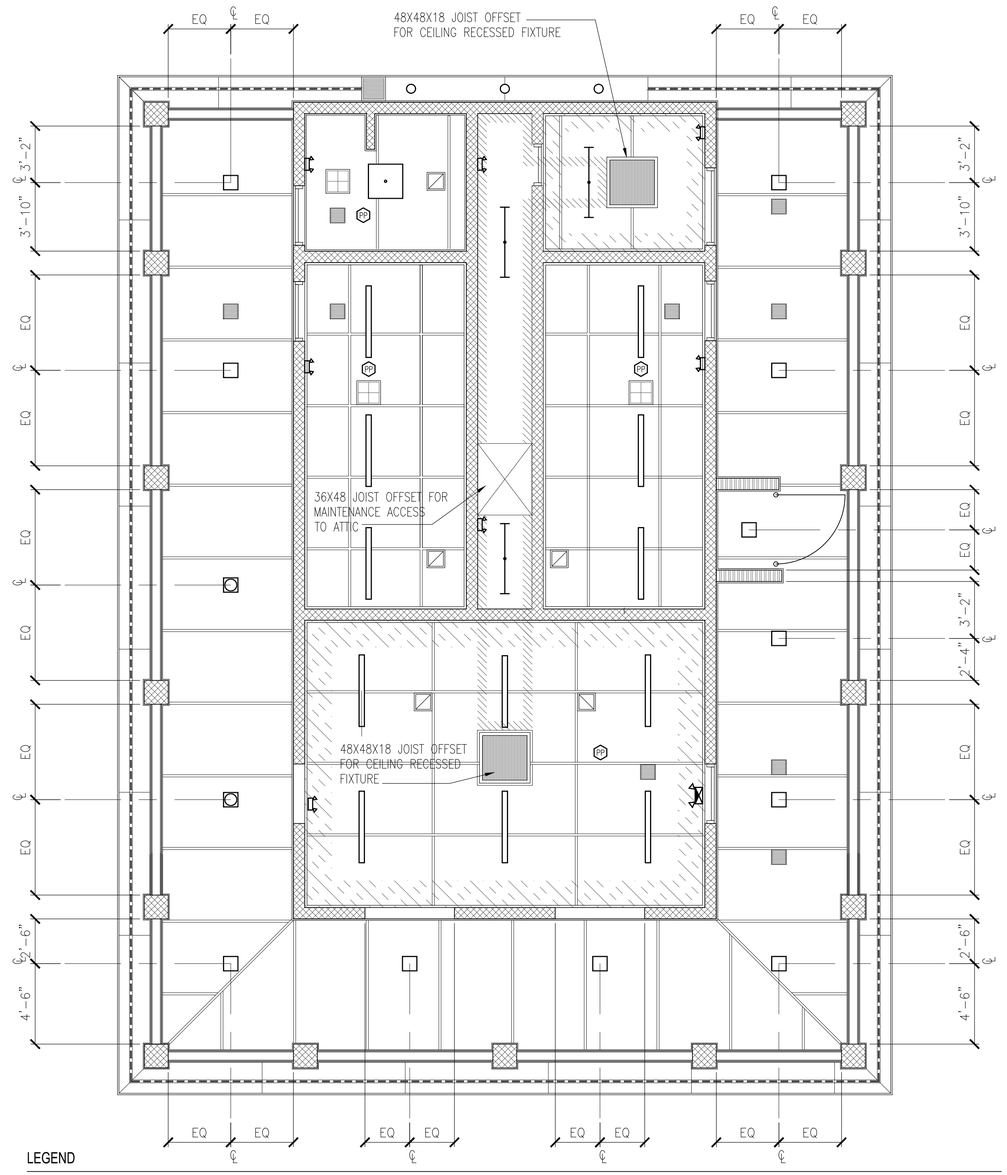
11.02.2022

A1.1

RESTROOM/ CONCESSION BUILDING - FLOOR PLAN





LEGEND

- INTERIOR CEILING: 3/4 MARINE GRADE PLYWOOD SHEATHING W/ PT 1X TRIM & BATTENS AT ALL SEAMS, PRIME & PAINT
  EXTERIOR CEILING & SOFFIT: "HARDIE" CEILING PANELS/ SOFFIT PANELS W/ 1X "HARDIE" TRIM, PRIME & PAINT
- 4INX4FT LIGHT, LINEAR SURFACE MOUNT SEE ELECTRICAL
- 10X10 LED LIGHT, SURFACE MOUNT SEE ELECTRICAL
- 4FT UTILITY LIGHT, SURFACE MOUNT SEE ELECTRICAL
- RECESSED CAN LIGHT SEE ELECTRICAL
- EMERGENCY EGRESS LIGHT SEE ELECTRICAL
- EMERGENCY EGRESS LIGHT, SEE ELECTRICAL
- OCCUPANCY SENSOR
- 34X34 SUPPLY DIFFUSER SEE MECHANICAL
- INDICATES 16X16 SOFFIT MOUNTED EXHAUST GRILL SEE MECHANICAL
- INDICATES RETURN AIR GRILL, SEE MECHANICAL
- INDICATES ELECTRIC UNIT HEATER RECESSED IN CEILING, SEE MECHANICAL
- INDICATES EXHAUST FAN, SEE MECHANICAL
- INDICATES 5/8 PLYWD DECK FOR MAINTENANCE ACCESS TO EACH HVAC UNIT IN ATTIC
- INDICATES 6IN BATT IN CEILING JOISTS OF (2) ROOMS ONLY

1 DIMENSION PLAN
SCALE: 1/4"=1'-0"

2 REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

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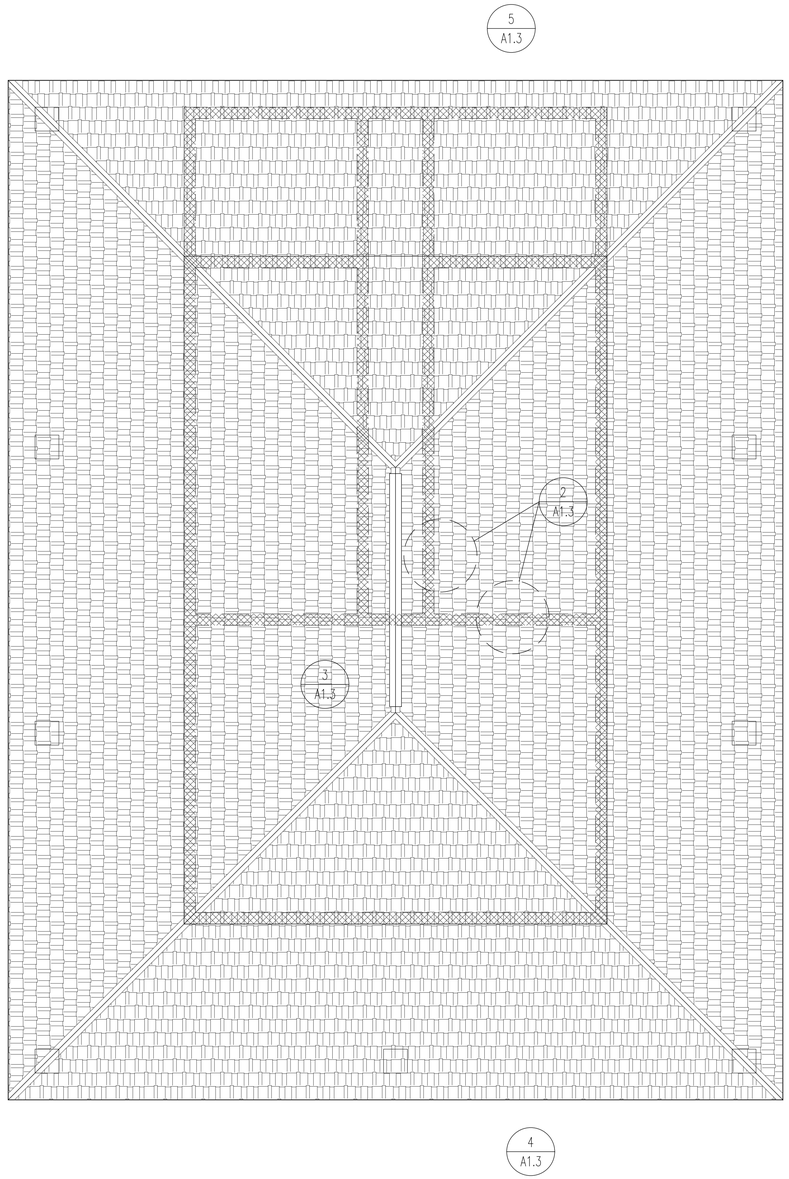
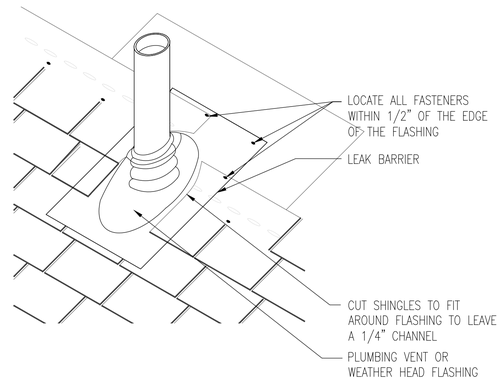
A1.2

BUILDING - DIMENSION & REFLECTED CEILING PLANS



1 ROOF PLAN

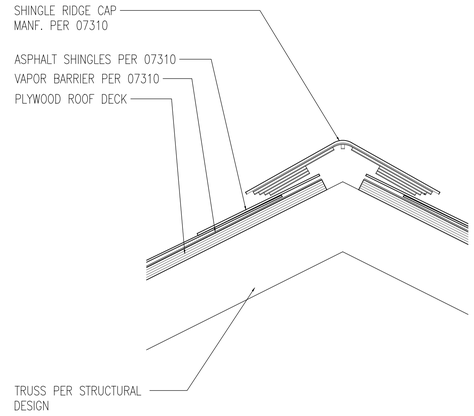
SCALE: 1/4"=1'-0"



1. INSTALL 24" WEATHERWATCH OR STORMGUARD LEAK BARRIER TARGET SHEET
2. DO NOT FACE NAIL VENT FLASHING

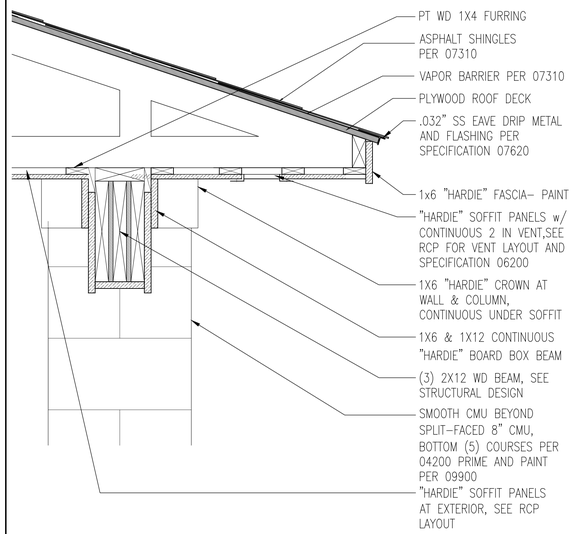
2 DTL VENT THRU ROOF

SCALE: 1/4"=1'-0"



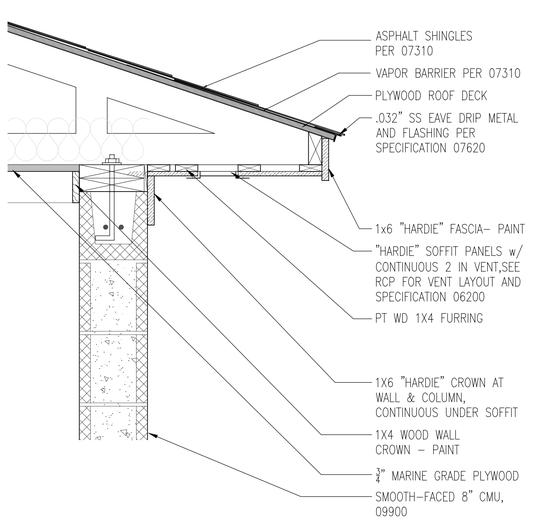
3 RIDGE CAP DETAIL

N.T.S



4 SOFFIT & BEAM

SCALE: 1 1/2"=1'-0"



5 SOFFIT & WALL

SCALE: 1 1/2"=1'-0"

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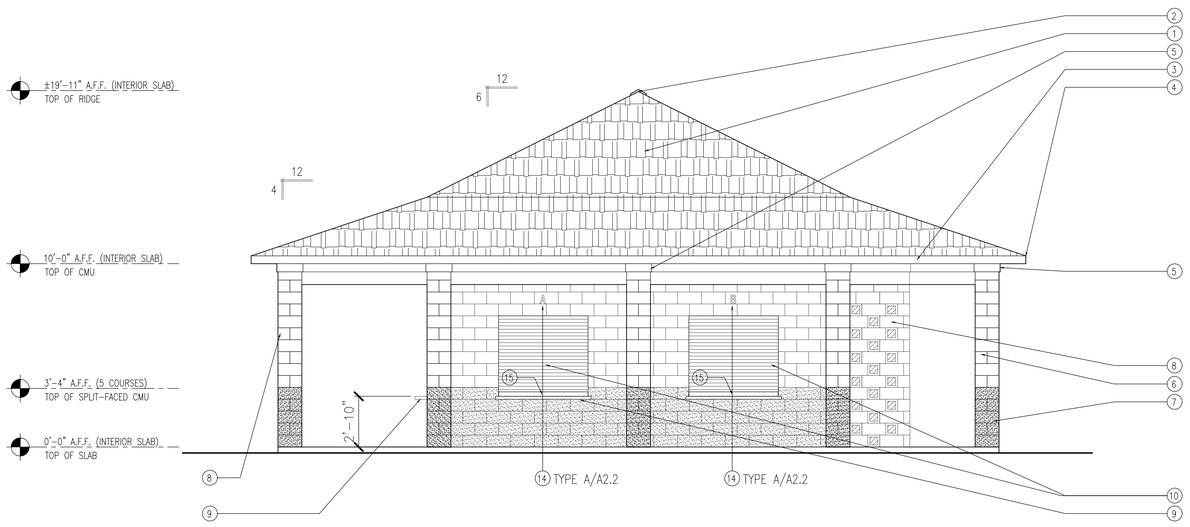
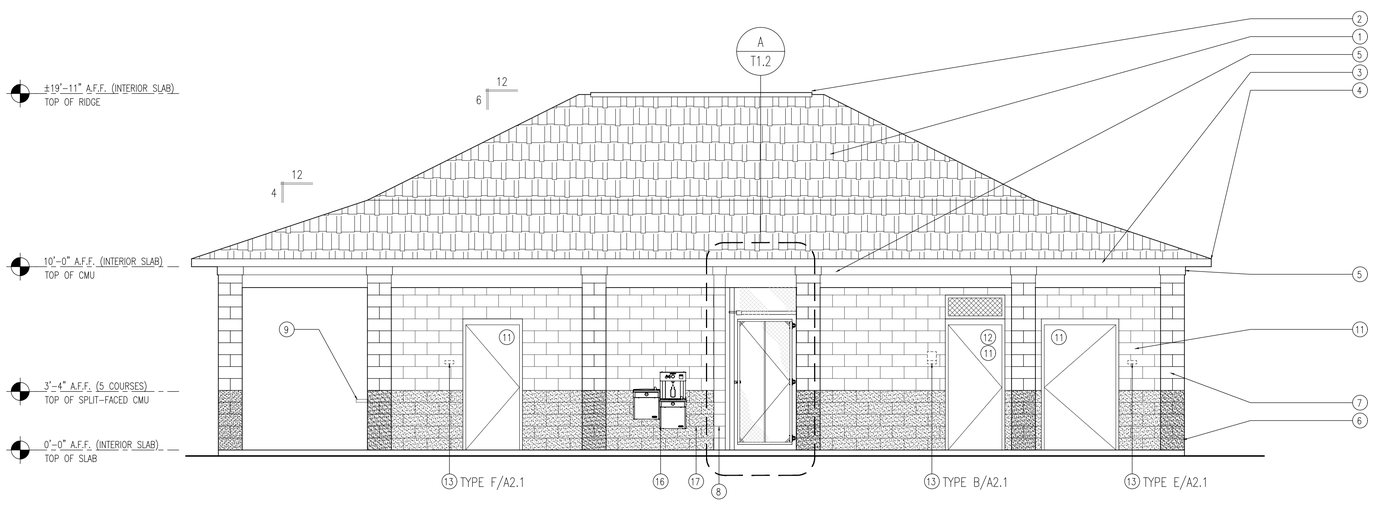
A1.3

BUILDING - ROOF PLAN



2 BUILDING ELEVATION - SOUTH

SCALE: 1/8"=1'-0"



1 BUILDING ELEVATION - EAST

SCALE: 1/8"=1'-0"

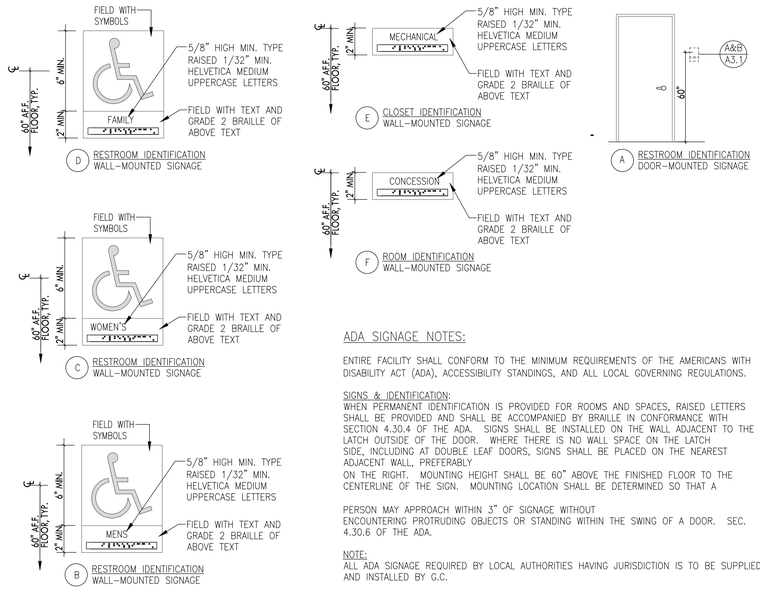
KEYNOTES (THIS SHEET)

1. ASPHALT SHINGLES AND VAPOR BARRIER PER 07310
2. ROOF RIDGE VENT PER SPECIFICATION 07310
3. 1x6 "HARDIE" FASCIA – PAINT
4. .032" SS EAVE DRIP METAL AND FLASHING PER SPECIFICATION 07620
5. 1X6 "HARDIE" CROWN AT WALL & COLUMN, CONTINUOUS UNDER SOFFIT
6. SPLIT-FACED 8" CMU, BOTTOM (5) COURSES PER 04200 PRIME AND PAINT PER 09900
7. SMOOTH-FACED 8" CMU, TOP (11) COURSES PER 04200 PRIME AND PAINT PER 09900
8. 8" SCREEN BLOCK AND SMOOTH-FACED CMU COMBINATION SCREEN WALLS, SEE DETAIL A/T1.2 AND SPECIFICATION 04200
9. NEW "TRUEFORM" PRE-FABRICATED CONCRETE SERVICE COUNTERTOP – MOUNTED TO CMU WALL BELOW WITH STEEL ANGLES BOTH SIDES PER 06415
10. PREFINISHED ALUMINUM ROLL-UP COUNTERTOP DOOR AT CONCESSION SERVICE WINDOWS AND TICKET WINDOW, SEE DOOR TYPES A1.1 AND SPECIFICATION 08333
11. HM DOOR AND FRAME, SEE DOOR SCHEDULE PER A1.1 AND SPECIFICATION 08711
12. HM TRANSOM ABOVE RESTROOM DOORS ONLY WITH EXPANDED METAL SASH – 3/4 #16 FLATTENED WITH 80% OPEN. PAINT EXPANDED METAL AND HM FRAME PER SPECIFICATION 05500
13. CAST ACRYLIC EXTERIOR WALL MOUNT PANEL SIGNAGE AT EACH DOOR, PER DTLS 3/A2.1 & SPECIFICATION 10431
14. CAST ALUMINUM EXTERIOR WALL MOUNT LETTER SIGNAGE CENTERED ABOVE EACH SERVICE WINDOW, PER DTLS 3/A2.2 AND SPECIFICATION 10431
15. 2" STL TUBE SCREWED TO TOP OF PRE-FABRICATED COUNTERTOP SERVICE WINDOWS SEE DTL B/T1.2
16. ADA DRINKING FOUNTAIN EXTERIOR HIGH-LOW WITH BOTTLE FILLER, SEE PLUMBING DESIGN.
17. RECESSED FREEZE PROOF HOSE BIBB, SEE PLUMBING DESIGN.

3 SIGNAGE DETAILS

SCALE: 1/4"=1'-0"

CAST ACRYLIC PANEL



ADA SIGNAGE NOTES:

ENTIRE FACILITY SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE AMERICANS WITH DISABILITY ACT (ADA), ACCESSIBILITY STANDINGS, AND ALL LOCAL GOVERNING REGULATIONS.

SIGNS & IDENTIFICATION:
WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 4.30.4 OF THE ADA. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY
ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A

PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. SEC. 4.30.6 OF THE ADA.

NOTE:
ALL ADA SIGNAGE REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION IS TO BE SUPPLIED AND INSTALLED BY G.C.

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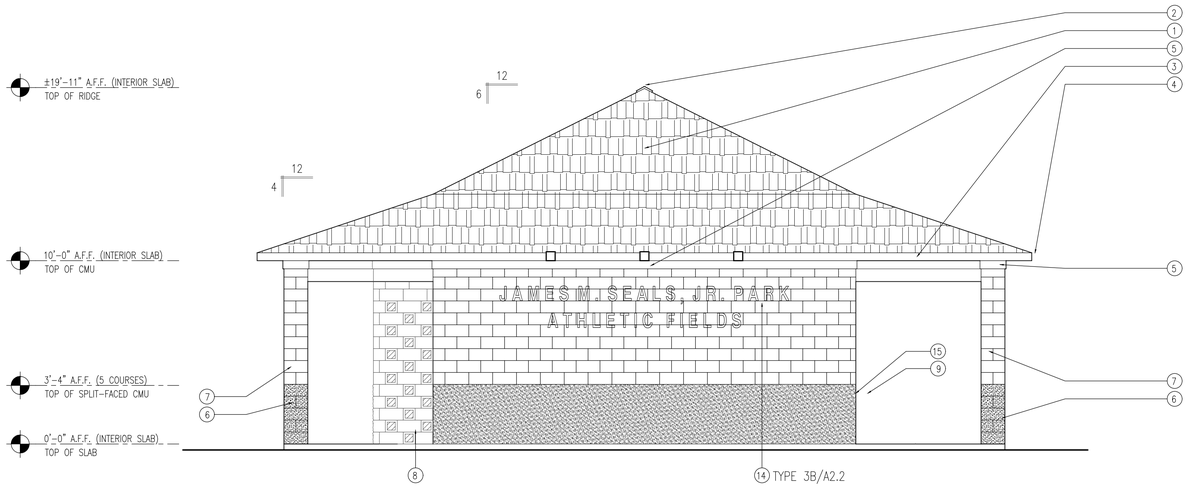
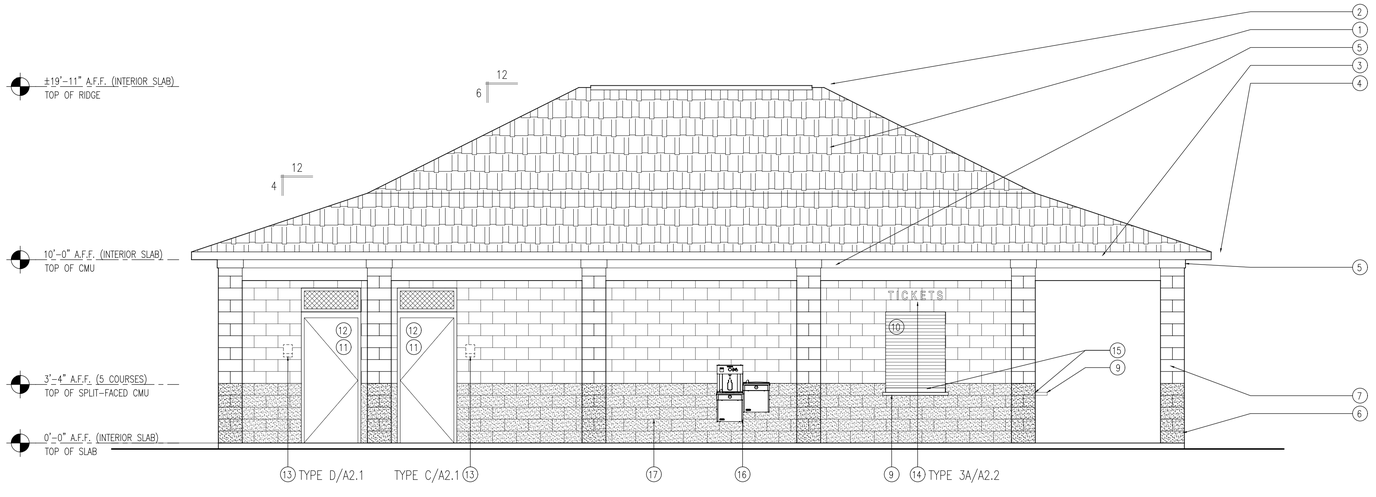
A2.1

BUILDING ELEVATIONS - SOUTH & EAST



2 BUILDING ELEVATION - NORTH

SCALE: 1/8"=1'-0"

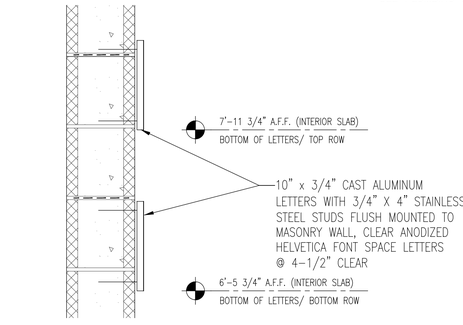


1 BUILDING ELEVATION - WEST

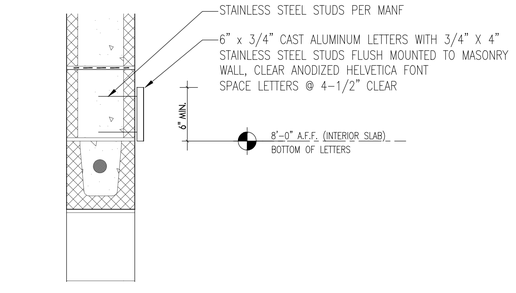
SCALE: 1/8"=1'-0"

KEYNOTES (THIS SHEET)

1. ASPHALT SHINGLES AND VAPOR BARRIER PER 07310
2. ROOF RIDGE VENT PER SPECIFICATION 07310
3. 1x6 "HARDIE" FASCIA – PAINT
4. .032" SS EAVE DRIP METAL AND FLASHING PER SPECIFICATION 07620
5. 1X6 "HARDIE" CROWN AT WALL & COLUMN, CONTINUOUS UNDER SOFFIT
6. SPLIT–FACED 8" CMU, BOTTOM (5) COURSES PER 04200 PRIME AND PAINT PER 09900
7. SMOOTH–FACED 8" CMU, TOP (11) COURSES PER 04200 PRIME AND PAINT PER 09900
8. 8" SCREEN BLOCK AND SMOOTH–FACED CMU COMBINATION SCREEN WALLS, SEE DETAIL A/T1.2 AND SPECIFICATION 04200
9. NEW "TRUEFORM" PRE–FABRICATED CONCRETE SERVICE COUNTERTOP – MOUNTED TO CMU WALL BELOW WITH STEEL ANGLES BOTH SIDES PER 06415
10. PREFINISHED ALUMINUM ROLL–UP COUNTERTOP DOOR AT CONCESSION SERVICE WINDOWS AND TICKET WINDOW, SEE DOOR TYPES A1.1 AND SPECIFICATION 08333
11. HM DOOR AND FRAME, SEE DOOR SCHEDULE PER A1.1 AND SPECIFICATION 08711
12. HM TRANSOM ABOVE RESTROOM DOORS ONLY WITH EXPANDED METAL SASH – 3/4 #16 FLATTENED WITH 80% OPEN. PAINT EXPANDED METAL AND HM FRAME PER SPECIFICATION 05500
13. CAST ACRYLIC EXTERIOR WALL MOUNT PANEL SIGNAGE AT EACH DOOR, PER DTLS 3/A2.1 & SPECIFICATION 10431
14. CAST ALUMINUM EXTERIOR WALL MOUNT LETTER SIGNAGE CENTERED ABOVE EACH SERVICE WINDOW, PER DTLS 3/A2.2 AND SPECIFICATION 10431
15. 2" STL TUBE SCREWED TO TOP OF PRE–FABRICATED COUNTERTOP SERVICE WINDOWS SEE DTL B/T1.2
16. ADA DRINKING FOUNTAIN EXTERIOR HIGH–LOW WITH BOTTLE FILLER, SEE PLUMBING DESIGN.
17. RECESSED FREEZE PROOF HOSE BIBB, SEE PLUMBING DESIGN.



B BUILDING IDENTIFICATION
WALL–MOUNTED SIGNAGE



A SERVICE WINDOW IDENTIFICATION
WALL–MOUNTED SIGNAGE

3 SIGNAGE DETAILS

SCALE: 1/4"=1'-0"

CAST ALUMINUM LETTER

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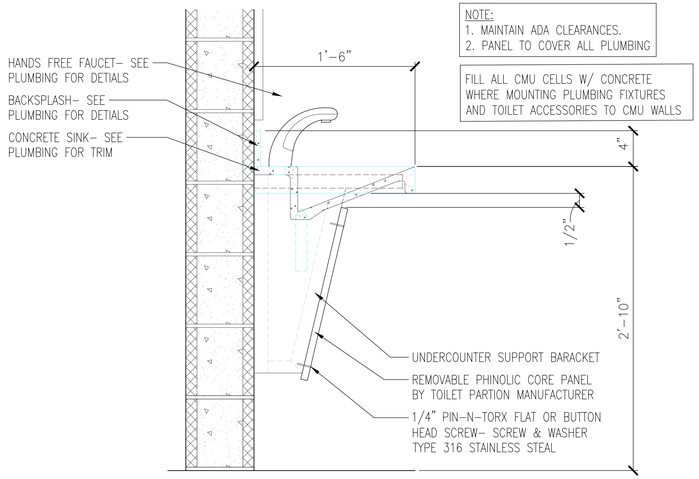
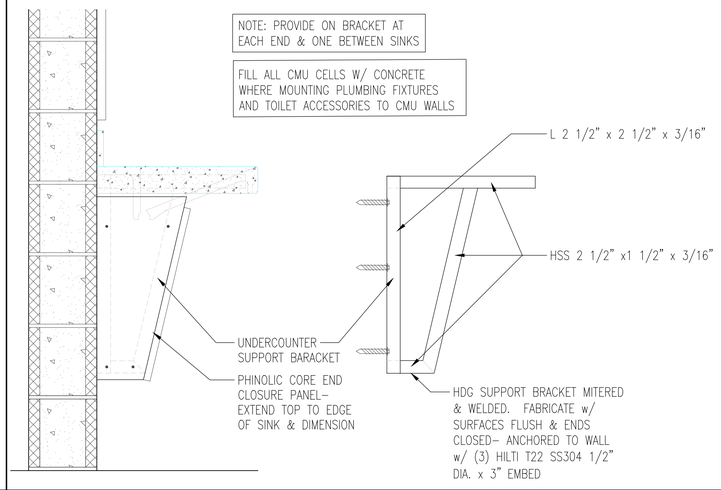
A2.2

BUILDING ELEVATIONS - NORTH & WEST



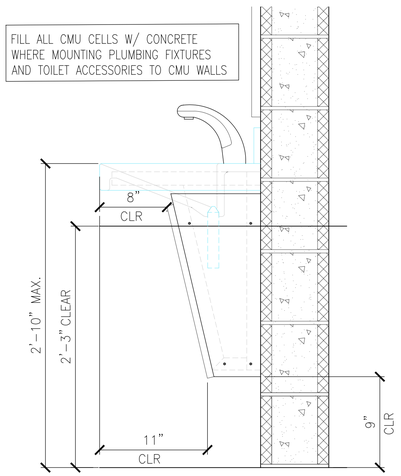
2 LAVATORY SECTION

SCALE: 1 1/2"=1'–0"



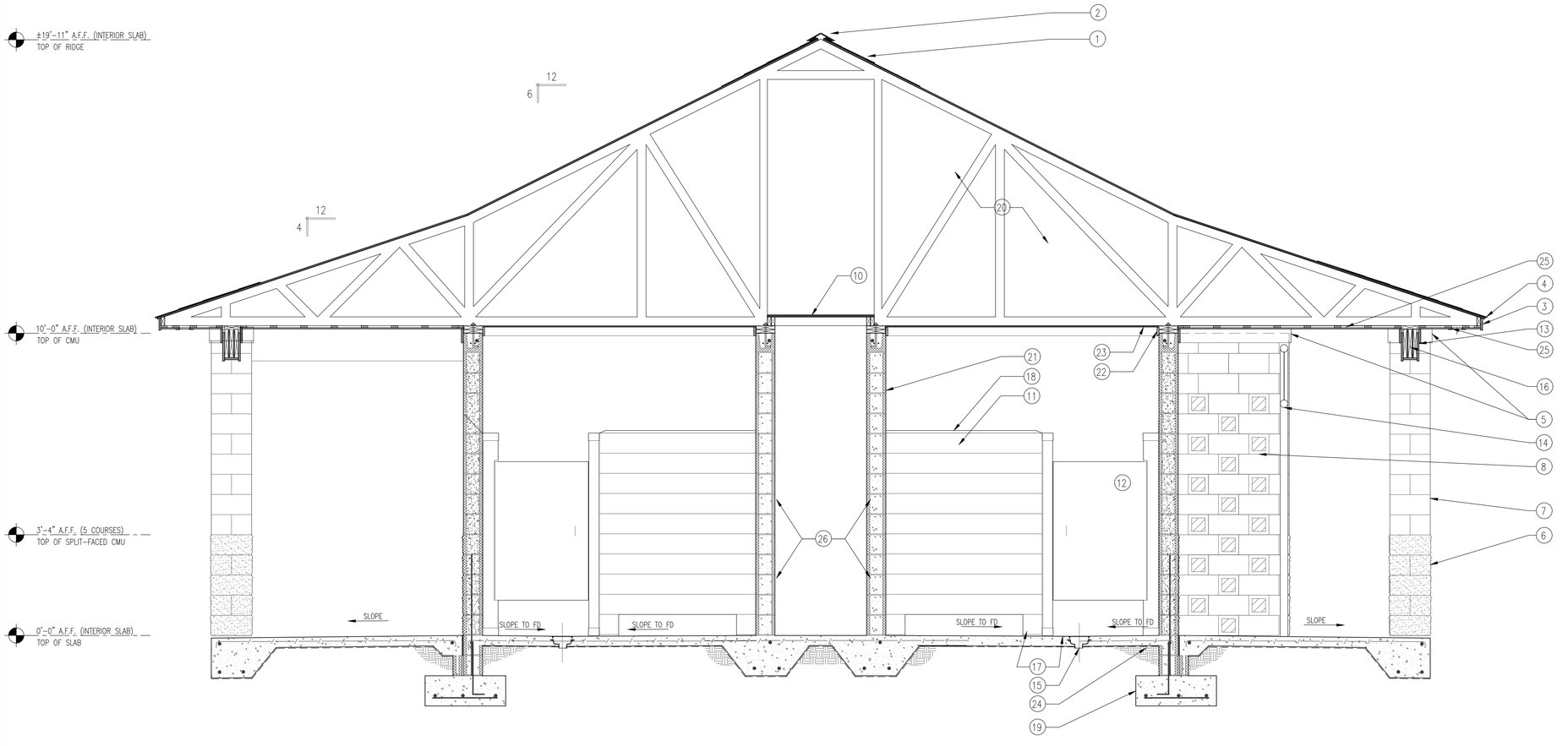
3 END LAVATORY DETAIL

SCALE: 1 1/2"=1'–0"



4 MOUNT HGT DTL

TYPICAL ADA LAVATORY MOUNTING HEIGHT



1 BUILDING SECTION

SCALE: 1/2"=1'–0"

KEY NOTES

1. ASPHALT SHINGLES AND VAPOR BARRIER PER 07310
2. ROOF RIDGE VENT PER SPECIFICATION 07310
3. 1x6 "HARDIE" FASCIA – PAINT
4. .032" SS EAVE DRIP METAL AND FLASHING PER SPECIFICATION 07620
5. 1X6 "HARDIE" CROWN AT WALL & COLUMN, CONTINUOUS UNDER SOFFIT
6. SPLIT–FACED 8" CMU, BOTTOM (5) COURSES PER 04200 PRIME AND PAINT PER 09900
7. SMOOTH–FACED 8" CMU, TOP (11) COURSES PER 04200 PRIME AND PAINT PER 09900
8. 8" SCREEN BLOCK AND SMOOTH–FACED CMU COMBINATION SCREEN WALLS, SEE DETAIL A/T1.2 AND SPECIFICATION 04200
9. "HARDIE" SOFFIT PANEL – PAINT
10. 3/4" PLYWD DECK IN ATTIC FOR EQUIPMENT ACCESS PLATFORM, SEE RCP FOR LAYOUT
11. SMOOTH–FACED 6" CMU TOILET PATITION, (11) COURSES PER 04200, PRIME AND PAINT PER 09900 SEE STRUCTURAL FOR POUR–IN–PLACE CONCRETE BEAM TO SUPPORT OPEN SPAN BOTTOM COURSE.
12. PHENOLIC TOILET PARTITION AND SS HARDWARE PER SPECIFICATION 10172
13. 1X6 & 1X12 CONTINUOUS "HARDIE" BOARD BOX BEAM
14. CHAIN LINK FENCE AND DOOR FOR A/C SECURITY
15. FLOOR DRAIN, SEE PLUMBING DESIGN
16. (3) 2X12 WD BEAM, SEE STRUCTURAL DESIGN
17. RESINOUS FLOORING CONTINUOUS 8" BASE COVE, SEE SECTIONS 09670
18. SMOOTH & CONSISTENT 1" CEMENT SLOPED CAP AT CMU PARTITION
19. REINFORCED CONCRETE FOUNDATION – SEE STRUCTURAL ENGINEERING
20. PREMANF WOOD TRUSS ROOF FRAMING – COORD. STORAGE SPACE IN TRUSSES ABOVE PLUMBING CHASE WITH STRUCTURAL ENGINEERING
21. CMU WALL–PAINT– SEE STRUCTURAL DESIGN FOR MORE DETAILS
22. 1X4 PT WOOD WALL CROWN – PAINT
23. 3/4" MARINE GRADE PLYWOOD CEILING – SPECIFICATION 06200
24. MOISTURE BARRIER UNDER REINFORCED CONCRETE SLAB– SEE STRUCTURAL ENGINEERING
25. 1/4" CEMENT BOARD SOFFIT PANELS ON 1x4 PURLINS 12" O.C. WITH CONTINUOUS 2 IN VENT EACH SOFFIT, SEE RCP FOR VENT LAYOUT & SPECIFICATION
26. FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

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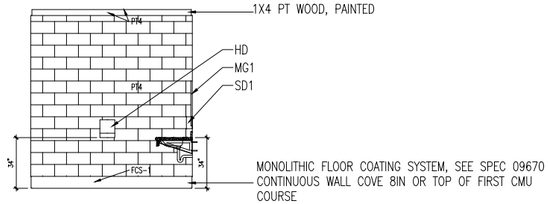
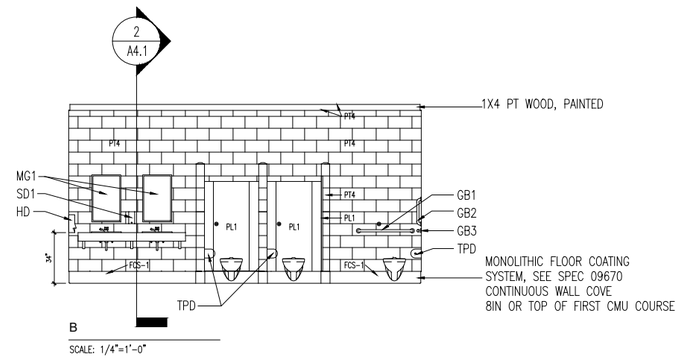
A3.1

BUILDING SECTIONS & DETAILS



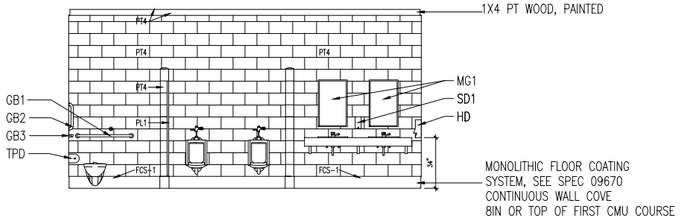
C

SCALE: 1/4"=1'-0"



B

SCALE: 1/4"=1'-0"



A

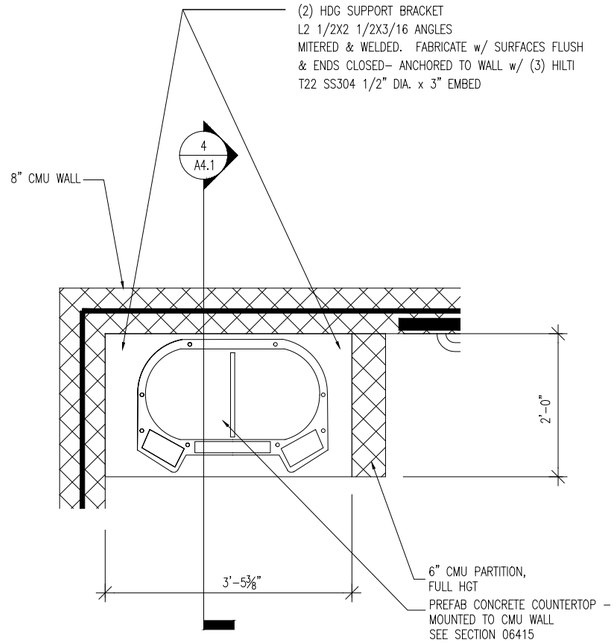
SCALE: 1/4"=1'-0"

SEE T1.1 FOR INSTALLATION HEIGHTS OF ALL FIXTURES AND ACCESSORIES AND FINISH COLORS ON A1.1..

FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

1 INTERIOR ELEV - RESTROOMS

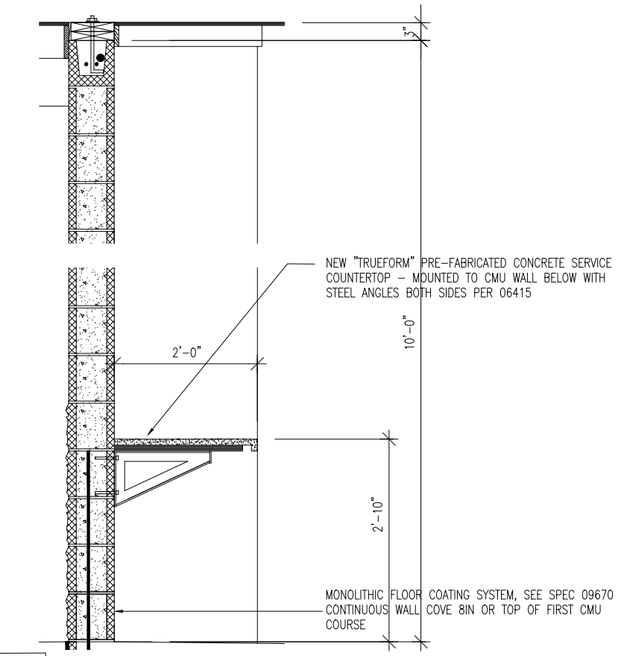
SCALE: 1/4"=1'-0"



3 DETAIL PLAN

SCALE: 1"=1'-0"

BABY CHANGING TABLE IN FAMILY RESTROOM

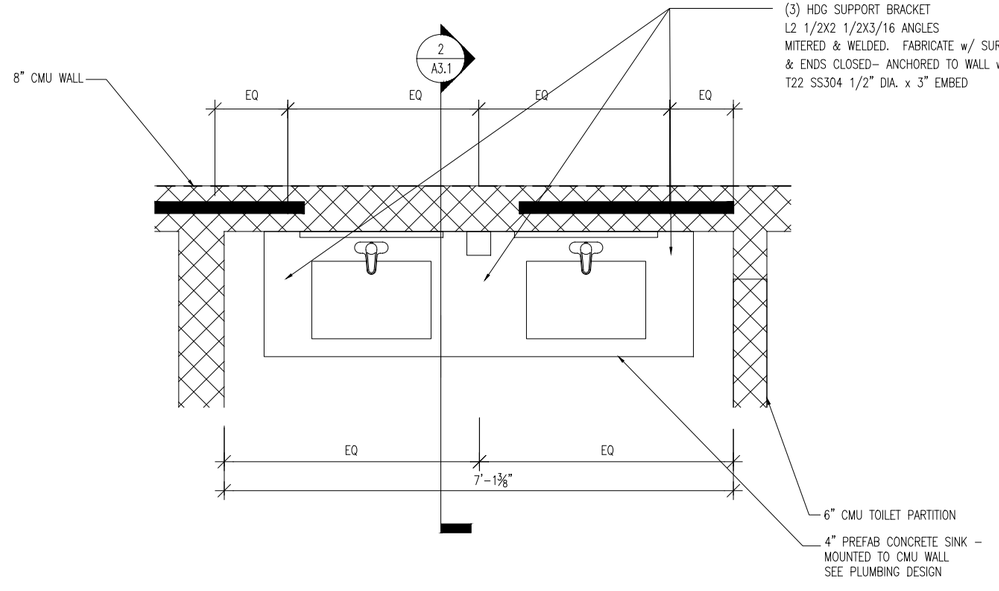


FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

4 DETAIL SECTION

SCALE: 1"=1'-0"

BABY CHANGING TABLE IN FAMILY RESTROOM



NOTE:
1. MAINTAIN ADA CLEARANCES.
2. PANEL TO COVER ALL PLUMBING

FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

2 DETAIL PLAN

SCALE: 1"=1'-0"

WOMENS ROOM COUNTERTOP (MENS COUNTERTOP OPPOSITE HAND)

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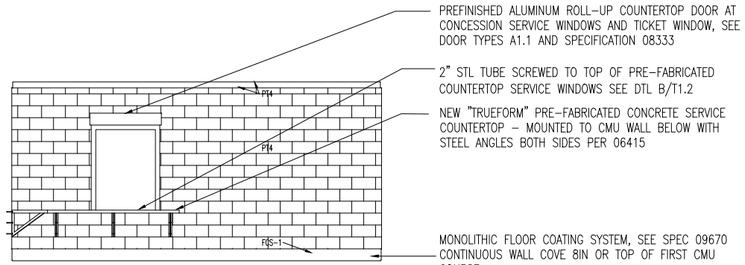
STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

A4.1

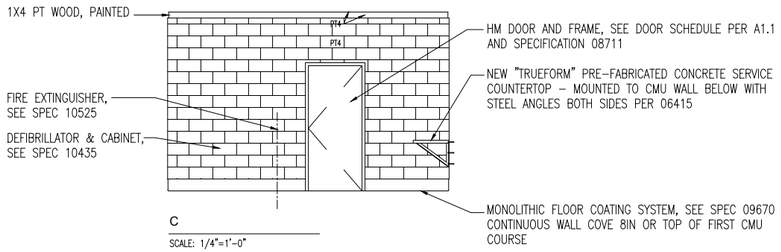
INT. ELEVATIONS, DETAIL PLANS & SECTIONS



D

SCALE: 1/4"=1'-0"

FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

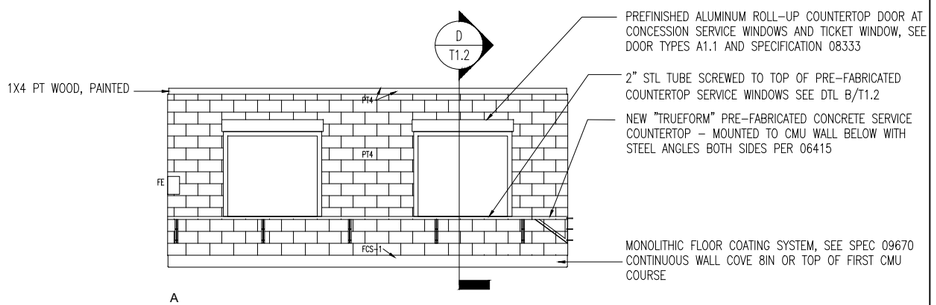


C

SCALE: 1/4"=1'-0"

B

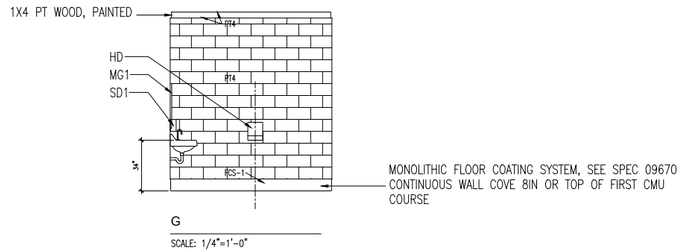
SCALE: 1/4"=1'-0"



A

SCALE: 1/4"=1'-0"

FILL ALL CMU CELLS W/ CONCRETE WHERE MOUNTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO CMU WALLS

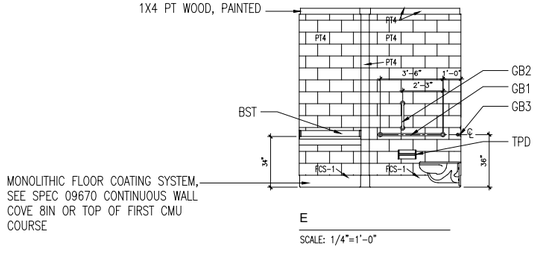


G

SCALE: 1/4"=1'-0"

F

SCALE: 1/4"=1'-0"



E

SCALE: 1/4"=1'-0"

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STATE OF ALABAMA
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7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

A4.2

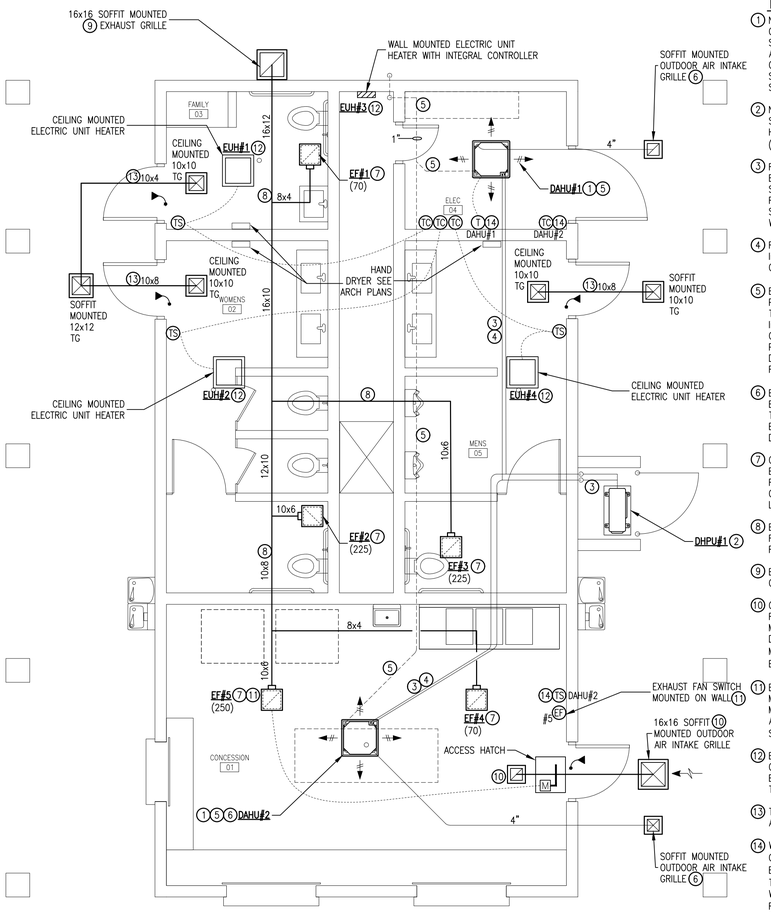
INT. ELEVATIONS - CONCESSION & FAMILY RESTROOM

1 INTERIOR ELEVATIONS - CONCESSION

SCALE: 1/4"=1'-0"

2 INTERIOR ELEVATIONS - FAMILY RESTROOM

SCALE: 1/4"=1'-0"



MECHANICAL KEY NOTES:

1. NEW DUCTLESS MINI-SPLIT AIR CONDITIONING UNIT EVAPORATOR SECTION MOUNTED IN CEILING. MECHANICAL CONTRACTOR TO COORDINATE ROOF STRUCTURE JOIST SPACING FOR SUFFICIENT ROOM TO INSTALL UNIT. ADDITIONALLY, COORDINATION IS REQUIRED FOR ACCURATELY LOCATING ACCESS PATH ABOVE CEILING FOR MAINTENANCE ACCESS TO UNIT. OPERATION OF EVAPORATOR SECTIONS SHALL BE FOR EITHER COOLING OR HEATING SIMULTANEOUSLY, BUT NOT HEATING AND COOLING AT THE SAME TIME. BOTH EVAPORATOR SECTIONS WOULD BE IN THE SAME MODE SUBJECT TO CONCESSIONS AREA CONTROLLER.
2. NEW OUTDOOR CONDENSING UNIT OF DUCTLESS MINI-SPLIT AIR CONDITIONING UNIT TO SERVE TWO EVAPORATOR SECTIONS. MOUNT UNIT ON 4-INCH-THICK CONCRETE HOUSEKEEPING PAD INSIDE OF MASONRY ENCLOSURE WITH CHAIN LINK ACCESS GATE. (REFERENCE ARCHITECTURAL PLAN FOR ADDITIONAL INFORMATION.)
3. REFRIGERANT PIPING SHALL BE EXTENDED FROM OUTDOOR CONDENSING UNIT, UP ON EXTERIOR WALL TO ABOVE CEILING ELEVATION AND PENETRATE THROUGH MASONRY WALL. SEAL WALL PENETRATION AIR TIGHT, WEATHERPROOF AND RODENT PROOF. SUPPORT REFRIGERANT PIPING ON EXTERIOR WALL EVERY 6 FEET WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. COVER PIPING ON WALL WITH HIDE-A-LINE VINYL JACKET TO ABOVE WALL PENETRATION.
4. REFRIGERANT PIPING ROUTED ABOVE BOTTOM CHORD OF ROOF JOISTS GENERALLY AS INDICATED, WITH OFFSETS TO AVOID OBSTRUCTIONS, TO EACH EVAPORATOR SECTION FOR CONNECTION.
5. EVAPORATOR SECTION SHALL HAVE AN INTEGRAL CONDENSATE PUMP, EXTEND 3/4-INCH PVC, SCH. 40, CONDENSATE PIPING TO END OF UTILITY CHASE TO TURN DOWN ON WALL TO 6 INCHES ABOVE FLOOR. PIPING SHALL PENETRATE WALL AND TURN DOWN TO 6 INCHES ABOVE GRADE AND TERMINATE WITH ELBOW IN UP POSITION. SUPPORT CONDENSATE PIPING IN VERTICAL AND HORIZONTAL POSITIONS EVERY 4 FEET AND AT POINT OF TERMINATION WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. INSTALLATION OF DRAIN PIPING SHALL HAVE AN INCLINE DOWN TO EXTERIOR WALL OF 1 INCH EVERY 40 FEET. ENTIRE LENGTH OF CONDENSATE DRAIN PIPING SHALL BE INSULATED.
6. EVAPORATOR SECTION SHALL HAVE AN OUTDOOR AIR INTAKE DUCT (4 INCHES ROUND) EXTENDED FROM UNIT BETWEEN ROOF JOISTS OVER FOR CONNECTION AND TERMINATION TO SOFFIT MOUNTED OUTDOOR AIR INTAKE GRILLE. OUTDOOR AIR INTAKE GRILLE SHALL BE ALUMINUM CUBE CORE TYPE. INCLUDE A MANUAL VOLUME DAMPER IN OUTDOOR AIR DUCT AND BALANCE TO SCHEDULED AIR FLOW.
7. CEILING MOUNTED EXHAUST FAN WITH DISCHARGE DUCT ROUTED FOR CONNECTION TO EXHAUST MANIFOLD. CONTROL OF EXHAUST FAN SHALL BE AS SCHEDULED. EXHAUST FANS IN BATHROOMS SHALL BE CONTROLLED FROM OCCUPANCY SENSOR FOR LIGHTING CONTROL. AS LIGHTS ARE "ON" SO SHALL THE EXHAUST FAN BE "ON" AND, OTHERWISE, LIGHT AND FAN SHALL BE "OFF".
8. EXHAUST DUCT MANIFOLD SHALL BE ROUTED ABOVE BOTTOM CHORD OF ROOF JOISTS FOR TERMINATION INTO SOFFIT AND TERMINATE WITH SOFFIT MOUNTED EXHAUST GRILLE. ROUTE DUCT GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS.
9. EXHAUST AIR GRILLE MOUNTED IN SOFFIT. PROVIDE FULL SIZE PLENUM BEHIND SOFFIT GRILLE FOR CONNECTION OF EXHAUST DUCT.
10. OUTDOOR AIR INTAKE GRILLE SHALL BE MOUNTED IN SOFFIT. INCLUDE FULL SIZE PLENUM FOR CONNECTION OF OUTDOOR AIR DUCT. DUCT SHALL BE ROUTED OVER TO CEILING MOUNTED GRILLE IN CONCESSION ROOM. INCLUDE A MOTORIZED DAMPER MOUNTED IN DUCT AND AN ACCESS HATCH IN CONCESSION ROOM CEILING FOR MOTORIZED DAMPER MAINTENANCE ACCESS. INTERLOCK MOTORIZED DAMPER WITH OPERATION OF EF#5. AS EF#5 IS OPERATING, THE MOTORIZED DAMPER SHALL BE OPEN AND OTHERWISE CLOSED.
11. EXHAUST FAN #5 SHALL BE CONTROLLED FROM WALL MOUNTED MARK TIME SWITCH FOR MANUAL "ON" AND "OFF" OPERATION. SWITCH SHALL HAVE 60 MINUTE TIME LIMIT. MECHANICAL CONTRACTOR SHALL POST AN ENGRAVED BLACK AND WHITE PHENOLIC SIGN ABOVE WALL SWITCH THAT READS: "TURN FAN ON IN CASE OF EMERGENCY". LETTERS SHALL BE 3/16 INCH ENGRAVED.
12. ELECTRIC UNIT HEATER. HEATER SHALL BE INTERLOCKED WITH OCCUPANCY SENSOR AND CONTROL OF HEATER SHALL BE FROM TEMPERATURE CONTROLLER MOUNTED IN ELECTRICAL ROOM. INITIAL SETTING OF CONTROLLER SHALL BE FOR 55°F, SUCH THAT AS TEMPERATURES ARE BELOW SET POINT THE UNIT HEATER SHALL ALSO BECOME ACTIVE.
13. TRANSFER AIR DUCT WITH DESIGNATED CUBE CORE TRANSFER AIR GRILLES AT EACH END. ADJUST FINAL LOCATION TO ACCOMMODATE AN EFFICIENT INSTALLATION.
14. WALL MOUNTED TEMPERATURE CONTROLLER SHALL HAVE DIGITAL DISPLAY, AUTOMATIC CHANGE OVER, OCCUPIED/UNOCCUPIED SCHEDULING, BE SET POINT ADJUSTABLE WITH BATTERY BACK-UP. TEMPERATURE CONTROLLER FOR DAHU#1 SHALL BE LOCAL TO UNIT. TEMPERATURE CONTROLLER FOR DAHU#2 SHALL BE A REMOTE WALL MOUNTED UNIT WITH A LOCAL SENSOR. THE REMOTE SENSOR SHALL BE DIRECTLY CONNECTED TO THE REMOTE CONTROLLER. ADJUST FINAL LOCATION OF TEMPERATURE CONTROLLER/SENSORS TO ACCOMMODATE FIELD CONDITIONS.

FAN SCHEDULE

MARK	TOTAL CFM	TSP IN WC	MAX RPM	TYPE DRIVE	TYPE FAN	INTERLOCK WITH	MOTOR HP/WATTS	MAX SONES	ELECTRICAL DATA VOLTS	Hz	PHASE	FAN SERVICE	REMARKS
EF#1	70	0.5	777	DIRECT	CEILING MOUNTED	OCCUPANY SENSOR	80 W	2.0	115	60	1	FAMILY RR	1 2 3 4 5
EF#2	225	0.5	777	DIRECT	CEILING MOUNTED	OCCUPANY SENSOR	80 W	2.0	115	60	1	WOMENS RR	1 2 3 4 5
EF#3	225	0.5	1220	DIRECT	CEILING MOUNTED	OCCUPANY SENSOR	173 W	5.5	115	60	1	MENS RR	1 2 3 4 5
EF#4	70	0.5	777	DIRECT	CEILING MOUNTED	OCCUPANY SENSOR	80 W	2.0	115	60	1	CONCESSION	1 2 3 4 5
EF#5	250	0.5	1288	DIRECT	CEILING MOUNTED	WALL SWITCH	123 W	2.2	115	60	1	CONCESSION	1 2 3 4 5

NOTES:
1. PROVIDE WITH FAN SPEED CONTROLLER, CONTROLLER SHALL BE MOUNTED TO FAN.
2. PROVIDE WITH ALUMINUM GRILLE. PLASTIC GRILLES SHALL NOT BE ACCEPTABLE
3. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
4. PROVIDE WITH INTEGRAL DISCONNECT.
5. PROVIDE WITH THERMAL OVERLOAD.

ELECTRIC UNIT HEATER SCHEDULE

MARK EUH#	CFM	HEATING CAPACITY INPUT KW	STAGES	OUTPUT BTU/HR	MOTOR DATA AMPS	ELECTRICAL DATA VOLTS	Hz	PHASE	REMARKS
EUH#1	200	2.0	1 @ 2.0	6825	8.3	240	60	1	3
EUH#2	200	3.0	1 @ 3.0	10200	12.5	240	60	1	3
EUH#3	175	2.0	1 @ 2.0	6825	8.3	240	60	1	1 2
EUH#4	200	3.0	1 @ 3.0	10200	12.5	240	60	1	3

NOTES:
1. SET POINT ADJUSTABLE CONTROLS SHALL BE INTEGRAL TO UNIT.
2. BASIS OF DESIGN: MARKEL FAN-FORCED ELECTRIC WALL MOUNTED HEATER-3420 SERIES PROVIDE WITH INTEGRAL CONTROLLER.
3. BASIS OF DESIGN: MARKEL FAN-FORCED ELECTRIC CEILING MOUNTED HEATER-3470 SERIES

MECHANICAL LEGEND

AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EUH	ELECTRIC UNIT HEATER
HPU	HEAT PUMP UNIT
MVD	MANUAL VOLUME DAMPER
OA	OUTDOOR AIR
TC	TEMPERATURE CONTROLLER
TG	TRANSFER GRILLE
TS	TEMPERATURE SENSOR
TYP	TYPICAL
	CEILING DIFFUSER WITH THROW INDICATION
	EXHAUST/RETURN AIR DEVICE
W X H	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)
W X H W X H	FLEX DUCT TAKE-OFF WITH AIR-SCOOP, SPIN-IN TAP AND BALANCING DAMPER
	ELBOW WITH TURNING VANES
	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER
	45° SHOE-FITTING TAKE-OFF
	DUCT CONNECTION OVER AIR DEVICE
	RETURN AIR DUCT IN SECTION
	SUPPLY AIR DUCT IN SECTION
S	DUCT MOUNTED SMOKE DETECTOR
M	MOTORIZED DAMPER
T #	THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 48" A.F.F.
	MANUAL VOLUME DAMPER
	5/8" DOOR UNDERCUT

INTERNATIONAL MECHANICAL CODE 2015 VENTILATION RATE CALCULATIONS

UNIT	ROOM NAME	OCCUPANCY CATEGORY	AREA Az	PEOPLE OUTDOOR RATE (CFM/PERSON) Rp	AREA OUTDOOR RATE (CFM/SF) Ra	OCCUPANT DENSITY (# OF PEOPLE) Pz	PEOPLE OA RATE Rp*Pz (CFM)	AREA OA RATE Ra*Az	BREATHING ZONE OA FLOW, Vbz (CFM)	ZONE AIR EFFECTIVENESS	ZONE OA FLOW, Voz (CFM)	ZONE COOLING PRIMARY AIR FLOW (CFM)	VENTILATION REQUIRED (CFM)	VENTILATION SCHEDULED (CFM)
DAHU#2	CONCESSION	TICKET BOOTHS	350	5	.06	4	20	21	41	0.8	51	475	51	70

DUCTLESS SPLIT HEAT PUMP UNIT SCHEDULE

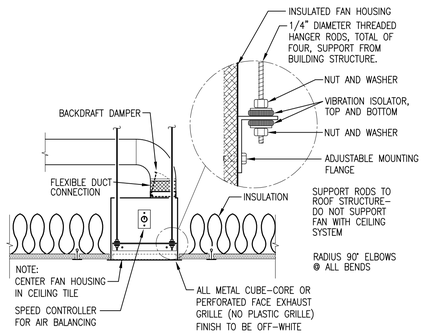
MARK	COOLING CAPACITY @ AHRI STANDARD CONDITIONS EDB	EWB	AMBIENT	COOLING BTU/HR	HEATING CAPACITY @ AHRI STANDARD CONDITIONS EDB	AMBIENT	HEATING BTU/HR	COMPR. RLA	OUTDOOR FAN FLA	OUTDOOR UNIT MCA	OUTDOOR UNIT MOCP	ELEC. DATA (V/Hz/PH)	SERVES	REMARKS
DHPU#1	80°F	67°F	95°F/75°F	30,700	70	95	32,600	16 A	0.93	21 A	25 A	240/60/1	DAHU#1 + DAHU#2	1 2 3 4 5

NOTES:
1. COMPRESSOR SHALL BE INVERTER DRIVEN TYPE.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THRU FIELD SUPPLIED INTERCONNECTED WIRING. COORDINATE WIRING REQUIREMENTS WITH ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ELECTRICAL CONTRACTOR PROVIDING POWER TO INDOOR UNIT.
3. PROVIDE WITH 7 YEAR COMPRESSOR AND 5 YEAR PARTS MANUFACTURER WARRANTY.
4. BASIS OF DESIGN IS MITSUBISHI
5. BOTH INDOOR UNITS SHALL BE SERVED FROM THIS OUTDOOR UNIT

DUCTLESS SPLIT AIR HANDLING UNIT SCHEDULE

MARK	TOTAL CFM	OA CFM	COOLING BTU/HR	REFR. TYPE	HEATING BTU/HR	FAN MOTOR FLA	UNIT MCA	ELEC. DATA (V/Hz/PH)	SERVES	REMARKS
DAHU#1	300	15	9,000	R-410	10,900	0.23	1.0 A	240/60/1	ELECTRICAL	1 2 3 4 5 6 7
DAHU#2	475	15	18,000	R-410	19,700	0.93	1.0 A	240/60/1	CONCESSION	1 2 3 4 5 6 7

NOTES:
1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THRU FIELD SUPPLIED INTERCONNECTED WIRING. COORDINATE WIRING REQUIREMENTS WITH ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ELECTRICAL CONTRACTOR PROVIDING POWER TO INDOOR UNIT.
2. ROUTE FULLY INSULATED CONDENSATE DRAIN LINE AS SHOWN ON PLANS.
3. PROVIDE WITH DRAIN PAN LEVEL SENSOR TO SHUT DOWN UNIT PRIOR TO PAN OVERFLOW. SENSOR SHALL BE PROVIDED BY UNIT MANUFACTURER.
4. AIRFLOW SHOWN IS FOR 'HIGH' CFM SETTING WITH DRY COIL CONDITION.
5. PROVIDE CEILING MOUNTED CASSETTE UNIT COMPLETE WITH A REMOTE CONTROL THERMOSTAT.
6. PROVIDE WITH INTEGRAL CONDENSATE PUMP AND ROUTE FULLY INSULATED CONDENSATE DRAIN LINE TO EXTERIOR WALL.
7. BASIS OF DESIGN IS MITSUBISHI



TYPICAL CEILING MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE

1 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

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504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED No. 19948 PROFESSIONAL ENGINEER

November 02, 2022

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MECHANICAL PLAN

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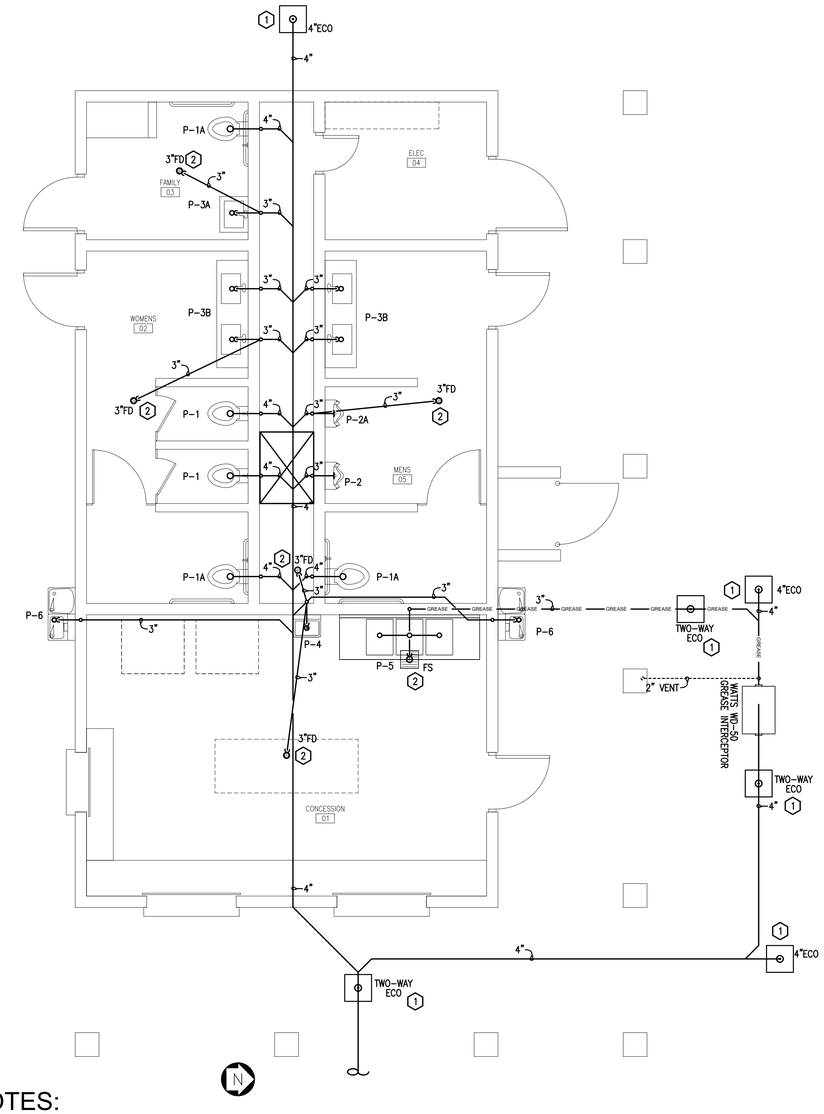


WASTE GENERAL NOTES:

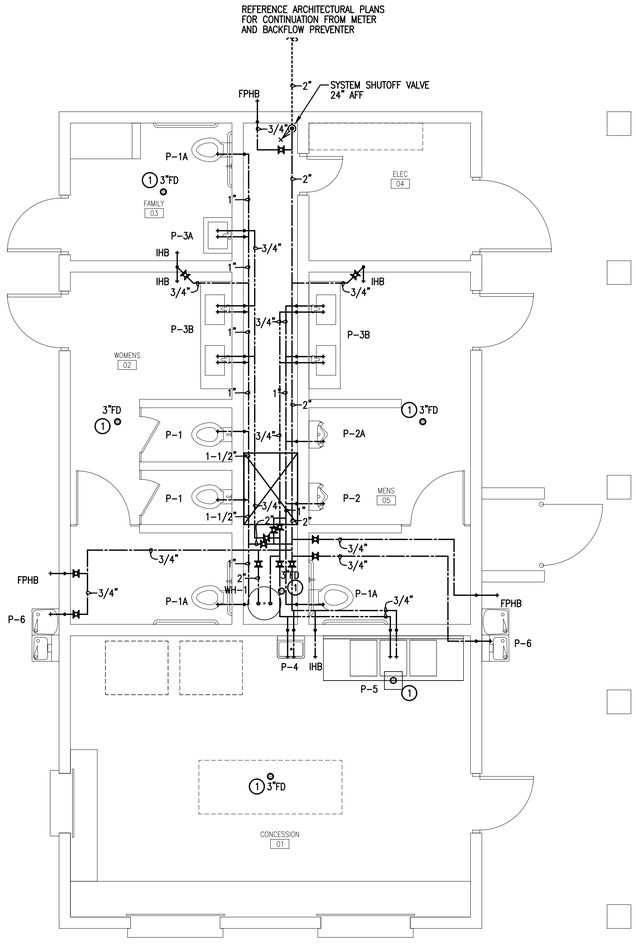
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. SANITARY WASTE AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO INSTALLATION OF PLUMBING FIXTURES.
3. OFFSET PIPING AS REQUIRED TO LOCATE RISERS AND DROPS AS SHOWN ON PLANS.
4. ALL HORIZONTAL PORTIONS OF THE SANITARY WASTE PIPING SERVING FOR CONDENSATE DISPOSAL SHALL BE INSULATED WITH 1" THICK SECTIONAL FIBERGLASS INSULATION WITH AN "ASJ" JACKET. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN TRAP SHALL ALSO BE INSULATED.
5. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
6. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

KEYNOTES:

1. CLEANOUT TO BE COMPLETELY SERVICE ACCESSIBLE.
2. PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.

1 SANITARY WASTE PLAN

SCALE: 1/4"=1'-0"



DOMESTIC WATER GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. OFFSET PIPING AS REQUIRED TO LOCATE PIPE RISERS AND DROPS AS SHOWN ON PLANS.
3. ALL FIXTURES MUST BE PROVIDED WITH STOPS. THOSE STOPS MUST BE FULLY ACCESSIBLE.
4. SINKS LOCATED IN PUBLIC AREAS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR ABOVE CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
6. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.
7. PLUMBING CONTRACTOR SHALL FULLY COORDINATE PIPE ROUTING WITH MECHANICAL CONTRACTOR TO ENSURE EFFICIENT UTILIZATION OF AVAILABLE SPACE. DUCT ROUTING SHALL HAVE PRIORITY OVER PRESSURIZED-PIPE ROUTING.

KEYNOTE:

1. PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.

2 DOMESTIC WATER PLAN

SCALE: 1/4"=1'-0"

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ALABAMA LICENSED No. 14948 PROFESSIONAL ENGINEER HOWARD M. YONGE, JR.

November 02, 2022

P1.1

PLUMBING PLANS

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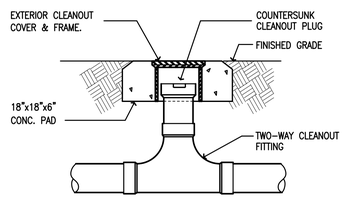
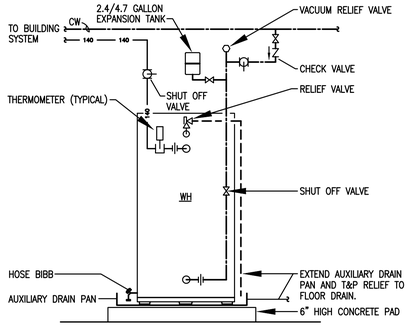
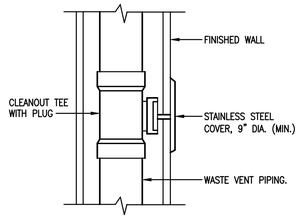


TYPICAL TWO-WAY CLEANOUT DETAIL
NOT TO SCALE

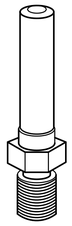


ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE

END CLEANOUT DETAIL
NOT TO SCALE



AIR PRELOAD PSI	FIXTURE UNITS	P.D.I. SYMBOL
60	1–11	A
60	12–32	B
60	33–60	C
60	61–113	D

NOTE: WATER HAMMER ARRESTORS TO BE LOCATED ABOVE ELEVATION OF CEILING.

WATER HAMMER DETAIL
NOT TO SCALE

GREASE TRAP CALCULATON

D TOTAL NUMBER OF SEATS
50

MF MEAL FACTOR
1.33 FAST FOOD

GL GALLON OF WASTEWATER PER MEAL
2 SINGLE SERVICE KITCHEN

RT RETENTION TIME
1.5 SINGLE SERVICE KITCHEN

ST STORAGE FACTOR
1.0 (OPERATION OF 8 HOURS)

D x MF x GL x RT x ST = GT (GALLONS)

50 x 1.33 x 2.0 x 1.5 x 1.0 = 200 = 40 LBS. GREASE SIZE PROVIDED 100 LB.

GREASE TRAP CALCULATION

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	CONNECTIONS WASTE	CW	HW	DESCRIPTION
P–1	WATER CLOSET	4"	1"	--	15" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER.
P–1A	WATER CLOSET (HANDICAPPED)	4"	1"	--	16–1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER. INSTALL PER ADA REQUIREMENTS.
P–2A	URINAL (HANDICAPPED)	2"	3/4"	--	WALL HUNG TYPE WITH FLUSH VALVE AND FLOOR MOUNTED CARRIER. INSTALL PER ADA REQUIREMENTS. MANUAL 1.0 gpf FLUSH
P–3A	LAVATORY (HANDICAPPED)	1–1/4"	3/4"	3/4"	ADA, CONCRETE, WALL–HUNG, RECTANGULAR BASIN, 4" CENTERS, CENTER SET FAUCET WITH GRID DRAIN, 1–1/4" P–TRAP, FLEXIBLE SUPPLIES AND STOPS, AND ASSE–APPROVED TEMPERATURE–LIMITING DEVICE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT, PROVIDE INSULATION KIT.
P–3B	LAVATORIES (HANDICAPPED)	1–1/4"	3/4"	3/4"	ADA, CONCRETE, WALL–HUNG, DUAL RECTANGULAR BASINS, 4" CENTERS, CENTER SET FAUCET WITH GRID DRAIN, 1–1/4" P–TRAP, FLEXIBLE SUPPLIES AND STOPS, AND ASSE–APPROVED TEMPERATURE–LIMITING DEVICE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT, PROVIDE INSULATION KIT.
P–4	KITCHEN HAND SINK	1–1/2"	3/4"	3/4"	WALL MOUNTED SS SINK WITH BACK SPLASH–MOUNTED GOOSENECK FAUCET, P–TRAP, AND WALL CARRIER. PROVIDE FLEXIBLE SUPPLIES WITH STOPS, UNDER COUNTER POINT OF USE THERMAL MIXING VALVE, AND SPLASH GUARD WELDED TO SIDE OF SINK TO PROTECT FOOD PREP AREA.
P–5	3–COMP. SINK WITH SIDEBOARDS	1–1/2"	3/4"	3/4"	PROVIDE WITH SPLASH–MOUNTED FAUCET, THREE BASKET STRAINERS, AND SIDEBOARDS. EACH DRAIN TO BE ROUTED INDIVIDUALLY TO FLOOR SINK. FLOOR SINK TO BE MOUNTED TO ALSO FUNCTION AS FLOOR DRAIN.
P–6	DRINKING FOUNTAIN W/BOTTLE FILLER	1–1/2"	3/4"	--	WALL HUNG, DUAL WATER COOLER 1–1/4", 17 GA P–TRAP, FLEXIBLE SUPPLY WITH ANGLE STOP, FLOOR–SUPPORTED CARRIER, AND CANE APRON. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL PER ADA REQUIREMENTS. UNIT TO HAVE BOTTLE–FILLING STATION.

NOTE: FIXTURES SHALL BE WHITE AND FAUCETS SHALL BE POLISHED CHROME UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL HANDICAPPED FIXTURES SHALL BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION HEIGHTS. ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE INSULATED INCLUDING PIPING INSIDE WALLS. PIPING SHALL NOT BE INSTALLED IN A MANNER IN WHICH CONTACT WITH MASONRY PRODUCTS IS ALLOWED. ALL FIXTURES MUST BE PROVIDED WITH STOPS. ALL STOPS MUST BE FULLY ACCESSIBLE. TEMPERED WATER FOR PUBLIC LAVATORIES MUST BE SUPPLIED THROUGH A TEMPERATURE–LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SEE 2009 IPC 416.5. MAKE REVISIONS AS REQUIRED FOR COMPLIANCE.

WATER HEATER SCHEDULE

MARK	CAPACITY (GALLONS)	STORAGE TEMP °F	ELECTRICAL DATA VOLTS	PHASE	Hz	kW	REMARKS
WH–1	40	140	240	1	60	6.0	GLASS–LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. (BASIS OF DESIGN: RHEEM–RUUD E40A–6–G.)

NOTES:
1. WH–1 SHALL BE ON THE HVAC MEZZANINE.
2. WH–1 SHALL HAVE THREE ELEMENTS AT 2.0kW EACH WIRED FOR NON–SIMULTANEOUS OPERATION.

PLUMBING LEGEND

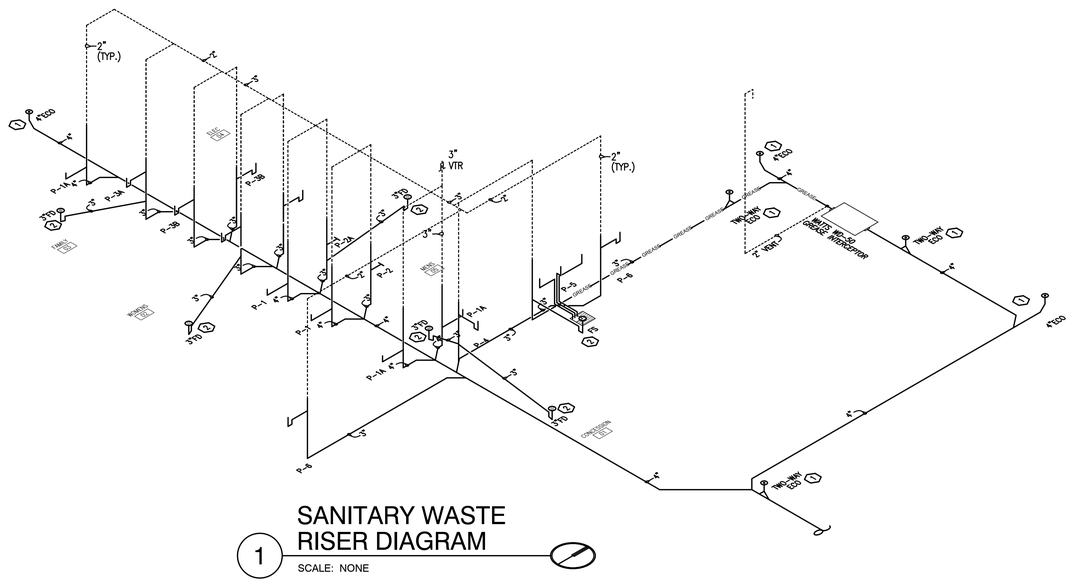
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
ECO	EXTERIOR CLEANOUT
FD	FLOOR DRAIN
FPHB	FREEZE PROOF HOSE BIBB
HW	HOT WATER
MV	MIXING VALVE
PSI	POUNDS PER SQUARE INCH
WCO	WALL CLEANOUT
TWH	TANKLESS WATER HEATER
VTR	VENT THRU ROOF
	COLD WATER PIPING
	UNDERGROUND COLD WATER PIPING
GAS GAS	GAS PIPING
	HOT WATER PIPING
TP TP TP TP	TRAP PRIMER PIPING
	WASTE PIPING
	VENT PIPING
	BALL VALVE
	P–TRAP
	VENT THRU ROOF
	WATER HAMMER ARRESTOR

WASTE GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE–RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. UNDERGROUND SANITARY WASTE AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO INSTALLATION OF PLUMBING FIXTURES.
3. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
4. PROVIDE INDICATED FLOOR DRAINS WITH TRAP PRIMER PIPING FROM A SELF–CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
5. ALL HORIZONTAL PORTIONS OF THE SANITARY WASTE PIPING SERVING FOR CONDENSATE DISPOSAL SHALL BE INSULATED WITH 1" THICK SECTIONAL FIBERGLASS INSULATION WITH AN "ASJ" JACKET. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN TRAP SHALL ALSO BE INSULATED.
6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTRS AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTRS PER 2015 IMC.
8. ALL PIPING PENETRATIONS OF FIRE–RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

KEYNOTES:

1. EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF–CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
2. WALL CLEANOUT TO BE COMPLETELY SERVICE ACCESSIBLE ON WALL.
3. DRAIN FOR CONDENSATE DISPOSAL FROM HVAC EQUIPMENT. COORDINATE FINAL LOCATION OF DRAIN WITH HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE A SUFFICIENTLY SIZED AIR GAP FITTING AT DRAIN TO ACCOMODATE HVAC EQUIPMENT AND AUXILIARY PAN CONDENSATE DRAINS.
4. PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.



SANITARY WASTE RISER DIAGRAM
1
SCALE: NONE

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November 02, 2022

P2.1

PLUMBING LEGEND, SCHEDULES, DETAILS, AND SPECIFICATIONS

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ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PANELBOARD – SEE RESPECTIVE PANELBOARD SCHEDULE.
	UTILITY METER
A/1	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROWS INDICATE CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = #12 AWG.
	INDICATES CONDUIT RUN UNDERGROUND.
	NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH – SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'-6" A.F.F. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
	ELECTRIC MOTOR – SEE RESPECTIVE EQUIPMENT SCHEDULE.
	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE.
	INDICATES GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE.
J	JUNCTION BOX LOCATION. SIZE AND TYPE AS REQUIRED.
	"LED" LIGHTING FIXTURE. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
	"LED" EXIT LIGHT. DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
	"LED" EMERGENCY LIGHTING UNIT – SEE LIGHTING FIXTURE SCHEDULE.
$	20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH – FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 – 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 – 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH DT – DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DW-100. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". M – 30 AMP SWITCH EQUAL TO HUBBELL HBL78320 OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL. MO – LOW VOLTAGE MOMENTARY TOGGLE SWITCH EQUAL TO WATTSOPPER LVS-1 FOR "MANUAL ON" CONTROL OF CEILING MOUNTED OCCUPANCY SENSOR.
	DUAL TECHNOLOGY CEILING-MOUNTED 360° OCCUPANCY SENSOR, WATTSTOPPER DT-300. SEE LIGHTING CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT LOCATION AS INDICATED ON PLANS. DEVICE SHALL BE PROGRAMMED FOR "AUTOMATIC ON" (UNLESS INDICATED OTHERWISE ON PLANS). PROGRAM SUCH THAT BOTH TECHNOLOGIES ARE REQUIRED TO TRIGGER LIGHTS "ON" AND EITHER TECHNOLOGY SHALL "HOLD" LIGHTS "ON". SEE PLANS FOR SENSOR LOCATIONS THAT ARE "MANUAL ON" ONLY . TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. SEE MANUFACTURERS INSTRUCTIONS FOR APPROPRIATE DIP SWITCH SETTINGS.
PP	POWER PACK RELAY FOR CONTROL OF LIGHTING CONTROLS, EQUAL TO WATTSTOPPER CAT# BZ-150. MOUNT DEVICE IN AN ACCESSIBLE LOCATION.
	VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4"C FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS. PROVIDE 2-CAT5E VOICE/DATA CABLES BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 2-PORT COVER PLATE. COVER PLATE SHALL BE LABELED WITH DATA CLOSET ROOM NUMBER, DATA DROP NUMBER, AND LOCATION OF SERVING DATA CLOSET. ALL CABLES SHALL BE TESTED AND TERMINATED AT OUTLET AND COMMUNICATION BACKBOARD. INSTALLER SHALL HAVE RCDD ON STAFF.
	SECURITY CAMERA. CONTRACTOR TO PROVIDE ORANGE CAT5E CABLE FROM CAMERA LOCATION TO SECURITY CABINET. COORDINATE ALL REQUIREMENTS WITH SECURITY VENDOR.
C	INDICATES DEVICE FLUSH MOUNTED 6" ABOVE COUNTERTOP OR IN BACKSPLASH.
WP	INDICATES WEATHER RESISTANT WIRING DEVICE WITH WEATHER PROOF IN-USE COVER PLATE.

SYMBOLS NOTES: UNLESS OTHERWISE NOTED THE FOLLOWING SHALL APPLY:

1. ALL OUTLETS SHALL BE FLUSH MOUNTED.
2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) SHALL BE GRAY WITH STAINLESS STEEL COVER PLATES.
6. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
7. ALL WIRING SHALL BE COPPER.
8. DO NO INSTALL OUTLETS BACK TO BACK.
9. PROVIDE INDICATES THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL.
10. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE RUN IN A SINGLE CONDUIT, NEC SECTION 310.15 SHALL APPLY.

LIGHTING FIXTURE SCHEDULE

MARK	LAMPS			MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
	LUMENS	WATTS	TYPE			
L5I	5200	40	LED	SUSPENDED 9'0" AFF	TOPAZ F-L4/40W/40K/D-87	
L5F	5200	40	LED	SURFACE CEILING	TOPAZ F-L4-40W-40K-D-87	
L4F2	5200	40	LED	SURFACE CEILING	TOPAZ F-L4-40W-40K-D-87	
DL2 DL2E	5000	45	LED	SURFACE CEILING	MORRIS 71603B 71603B-PROVIDE REMOTE BATTERY BACKUP	
EM	N/A	2	LED	SURFACE	LITHONIA LIGHTING EU2C	
EX/EM	N/A	2	LED	SURFACE	LITHONIA LIGHTING ECRG SQ M6	
WW	2000	20	LED	RECESSED	GOTHAM EVO4-40-20-AR-MD-LSS	

GENERAL NOTES:
1. ALL FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL RCP FOR LOCATIONS AND CENTERING ON ARCHITECTURAL ELEMENTS. CONTRACTOR SHALL CONSULT WITH ARCHITECT IF LOCATIONS SHOWN ARE NOT FEASIBLE IN THE FIELD.

ELECTRICAL SPECIFICATIONS:

1. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES AND ORDINANCES.
2. ALL WIRING SHALL BE COPPER CONDUCTORS WITH TYPE THHN OR TYPE THW INSULATION RUN IN CONDUIT. PROVIDE INDIVIDUAL NEUTRAL CONDUCTORS FOR ALL SINGLE-POLE BRANCH CIRCUITS. TIED BREAKER HANDLES ARE NOT ACCEPTABLE.
3. ALL MATERIALS SHALL BE NEW AND UL LISTED FOR THE APPLICATION.
4. PROVIDE TYPED PANELBOARD SCHEDULES IN ALL PANELBOARDS.
5. CONDUITS RUN CONCEALED IN THE HOLLOW SPACE OF NON-MASONRY WALLS OR ABOVE SUSPENDED CEILINGS SHALL BE EMT. FLEX SHALL NOT BE PERMITTED. EXPOSED CONDUITS SHALL BE RUN AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES AND EXPOSED STRUCTURE. IN ALL CASES, CONDUIT RUNS SHALL BE GROUPED TOGETHER WHERE POSSIBLE AND SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT FOR ANY SUSPENDED CEILING SUPPORT SYSTEM.
6. CONDUITS USED FOR CONNECTION TO RECESSED LIGHTING FIXTURES SHALL BE FLEX NOT OVER 6 FEET IN TOTAL LENGTH. CONDUITS FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT SHALL BE LQFLEX NOT LESS THAN 18" LONG AND NOT OVER 60" LONG.
7. LIGHTING FIXTURES SHALL BE INSTALLED PLUMB, SQUARE, AND LEVEL WITH THE CEILING, WALL, AND IN ALIGNMENT WITH ADJACENT LIGHTING FIXTURES. MOUNTING HEIGHTS INDICATED SHALL BE TO THE BOTTOM OF THE FIXTURE FOR CEILING-MOUNTED FIXTURES AND TO CENTER OF FIXTURE FOR WALL-MOUNTED FIXTURES. LAY-IN TROFFER FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 4 CEILING SUPPORT WIRES PER FIXTURE AND NOT MORE THAN 6 INCHES FROM EACH CORNER OF THE FIXTURE. FOR FIXTURES SMALLER IN SIZE THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR WIRES PER FIXTURE. DO NOT SUPPORT FIXTURES BY CEILING ACOUSTICAL PANELS. ALL CONCEALED FIXTURE MOUNTING ACCESSORIES SHALL BE SECURELY TIED TO STRUCTURE. FLEXIBLE CONNECTIONS TO FIXTURES SHALL NOT EXCEED 6 FEET IN LENGTH. FIXTURES SHALL BE SOLIDLY GROUNDED TO RACEWAY SYSTEM.

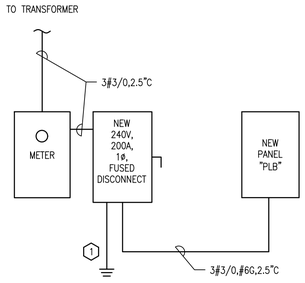
NEMA 1, RECESSED MOUNT
225A M.L.O 240/120V 1ø 3W

NEW PANEL PLB SCHEDULE

22,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA	KVA	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1	LIGHTS	1	20	0.8	0.7	20	1	CONCESSION RECEPTICLES	2
3	EXTERIOR LIGHTS	1	20	0.2	1.5	20	1	RECEPTICLES	4
5	TBB	1	20	0.6	0.1	20	1	ACCESS CONTROL	6
7	TBB	1	20	0.6	4.5	25	2	DCDU#1/DAHU#1/DAHU#2	8
9	REC CONCESSION EQUIP	1	20	0.7					10
11	REC CONCESSION EQUIP	1	20	0.7	3.0	20	1	EUH#1	12
13	REC CONCESSION COUNTER	1	20	0.4					14
15	REC CONCESSION COUNTER	1	20	0.4	3.0	20	1	EUH#2	16
17	REC EWC	1	20	1.2					18
19	REC EWC	1	20	1.2	3.0	20	1	EUH#3	20
21	ELECTRIC FAUCETS	1	20	0.1					22
23	HAND DRYER	1	20	1.8	3.0	20	1	EUH#4	24
25	HAND DRYER	1	20	1.8					26
27	HAND DRYER	1	20	1.8	6.0	35	2	WATER HEATER	28
29	SPARE	1	20	·					30
31	SPARE	1	20	·	·	20	1	SPARE	32
33	SPARE	1	20	·	·	20	1	SPARE	34
35	SPARE	1	20	·	·	20	1	SPARE	36
37	SPARE	1	20	·	·	20	1	SPARE	38
39	SPARE	1	20	·	·	20	1	SPARE	40
41	SPARE	1	20	·	·	20	1	SPARE	42

CONNECTED LOAD 37.1 KVA



SINGLE LINE KEYNOTES:

1. PROVIDE #4 AWG TO 3/4" X 20' COPPER CLAD GROUND ROD WITH BURNDY HYGROUND DIRECT BURIAL HIGH COMPRESSION FITTINGS. GROUNDING SYSTEM SHALL BE BONDED TO WATER PIPING, BUILDING STEEL, AND REBAR.

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ALABAMA LICENSED 11/02/22 No. 34807 PROFESSIONAL ENGINEER JAMES M. THOMAS VIRGINIA

November 02, 2022

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ELECTRICAL LEGEND

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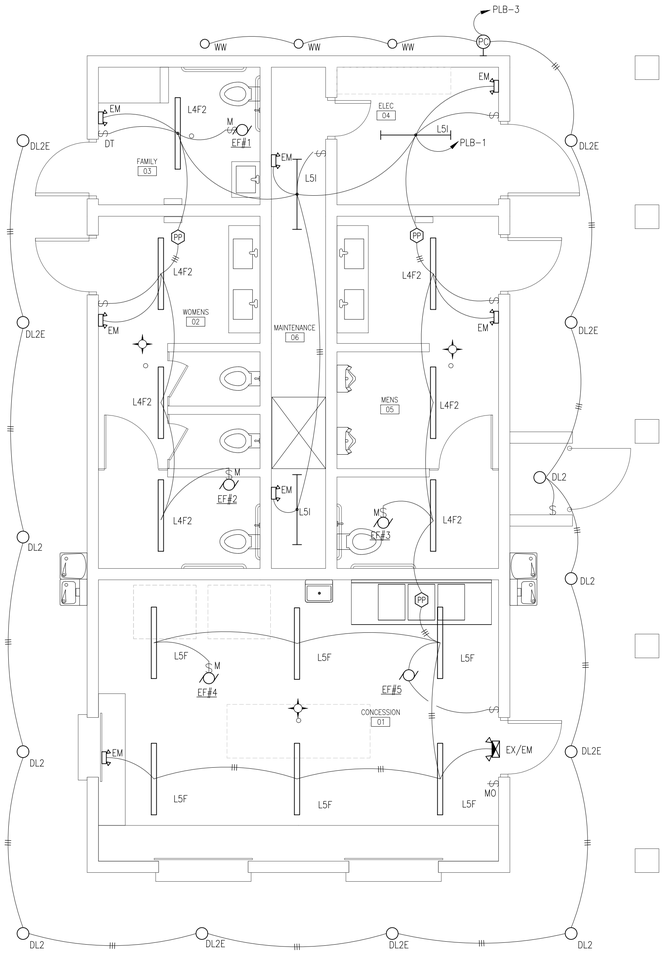

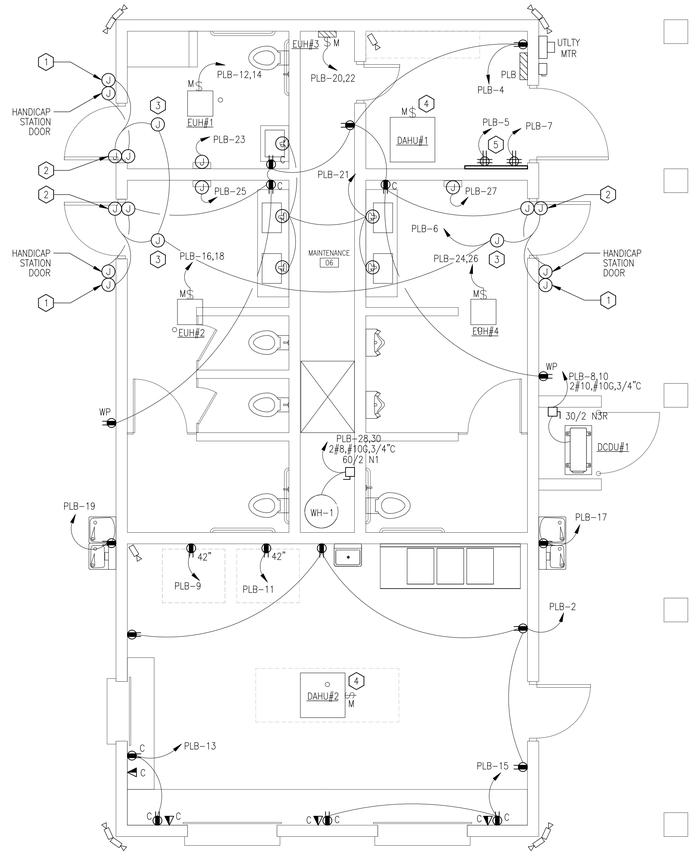

POWER AND SYSTEMS PLAN KEYNOTES:

1. FURNISH AND INSTALL J-BOX FLUSH IN WALL AT 48" A.F.F. ACCESS CONTROL WITH 3/4" CONDUIT W/ SECURITY WIRE. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH ACCESS CONTROL INSTALLER. COORDINATE J-BOX REQUIREMENTS AND WIRE TYPE WITH MANUFACTURER.
2. FURNISH AND INSTALL 4" SQUARE J-BOX ABOVE CEILING FOR CONNECTION TO DOOR LOCK WITH 3/4" CONDUIT W/ SECURITY WIRE. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH DOOR LOCK INSTALLER. PROVIDE SECURITY WIRE TYPE AS RECOMMENDED BY MANUFACTURER.
3. POWER SUPPLY FOR DOOR LOCK AND KEYPAD. PROVIDE POWER CONNECTION AS INDICATED. DO NOT CONNECT DOWN STREAM OF OUTLETS. PROVIDE ALL CONNECTIONS AS REQUIRED TO SECURITY DEVICES. COORDINATE ALL LOCATIONS AND CONNECTION REQUIREMENTS WITH SECURITY SYSTEM INSTALLER.
4. INDOOR UNIT IS POWERED FROM THE OUTDOOR UNIT. PROVIDE ALL POWER CONNECTIONS AS REQUIRED, COORDINATE WITH MANUFACTURER.
5. PROVIDE 3/4" x 4' x 6' PLYWOOD BACKBOARD. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSHED WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM SERVING ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR HARGER GBI SERIES.

ALL AUTOMATIC FIXTURES AND TIMERS TO HAVE THE REQUIRED BATTERIES INSTALLED AT PROJECT COMPLETION

N

1 LIGHTING PLAN

SCALE: 1/4"=1'-0"

N

2 POWER AND SYSTEMS PLAN

SCALE: 1/4"=1'-0"

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JAMES M. SEALS, JR. PARK -
ATHLETIC RESTROOM/ CONCESSION
AND FIELD IMPROVEMENTS
PR-041-20
504 TEXAS STREET, MOBILE, ALABAMA 36603

ALABAMA LICENSED 11/02/22 No. 34807 PROFESSIONAL ENGINEER JOHN THOMAS VARGESS

November 02, 2022

E1.1

ELECTRICAL PLANS

RDH> H:\Jobs_Active\22017 Seals Community Center\22017E11.dwg 03/04/22 08:11

HACKMEYER PARK - IMPROVEMENTS PHASE 2

PR-034-21

3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

GENERAL PROJECT NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF THIS SET OF DRAWINGS, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT, INTERIOR DESIGN DOCUMENTS, GEOTECHNICAL REPORT AND ANY OTHER INFORMATION WRITTEN AND MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR.
2. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED; WORK OF ANY INDIVIDUAL TRADE IS NOT CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS OR LOCATIONS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED.
4. IF DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING.
5. CONSTRUCTION TECHNIQUES, PROCEDURES, SEQUENCING AND SCHEDULING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. DO NOT SCALE DRAWINGS; USE DIMENSIONS ONLY. ALL DIMENSIONS MUST BE VERIFIED ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
7. IT IS THE INTENT OF THE DOCUMENTS TO PROVIDE A COMPLETELY WATERPROOF BUILDING COMPONENT OR ASSEMBLY. REPORT TO ARCHITECT ANY CONDITION THAT WOULD PREVENT THIS IMMEDIATELY.
8. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON DRAWINGS.
9. ALL ABBREVIATIONS, MATERIALS AND SYMBOLS IN LEGENDS MAY OR MAY NOT BE USED.
10. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS, DETAILS & SPECIFICATIONS FOR ALL CONSTRUCTION MATERIALS & SYSTEMS.
11. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, IDENTIFYING & COORDINATING EXISTING UTILITIES PRIOR TO ANY WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE & BECOMING FAMILIAR WITH THE WORK SCOPE. ANY QUESTIONS OR CONFLICTS ARE TO BE ADDRESSED TO THE ARCHITECT PRIOR TO THE START OF ANY WORK. ALL WORK METHODOLOGY & SEQUENCING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. THESE CONSTRUCTION DOCUMENTS COMPLY WITH THE 2012 IBC AS REQUIRED.

PROJ. TEAM

PROPERTY OWNER
CITY OF MOBILE
PARKS
4901 ZEIGLER BLVD
MOBILE, AL 36608
CONTACT: SHANNON MCINTYRE
(251) 208-

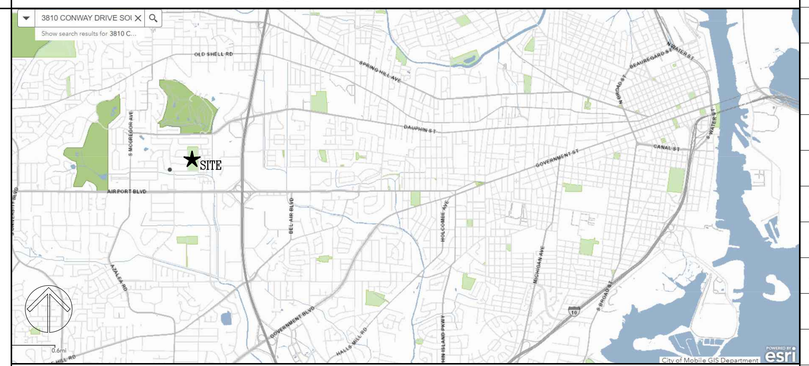
ARCHITECT
MAURIN ARCHITECTURE, P.C.
601 ST. ANTHONY STREET
MOBILE, AL 36603
CONTACT: KARRIE MAURIN, RA
(251) 690-7460 OFFICE
(850) 221-0670 CELL

CIVIL
DRIVEN ENGINEERING, INC.
8005 MORRIS HILL ROAD
SEMMES, AL 36575
CONTACT: AVALISHA FISHER
(251) 649-4011 OFFICE
(251) 895-4200 CELL

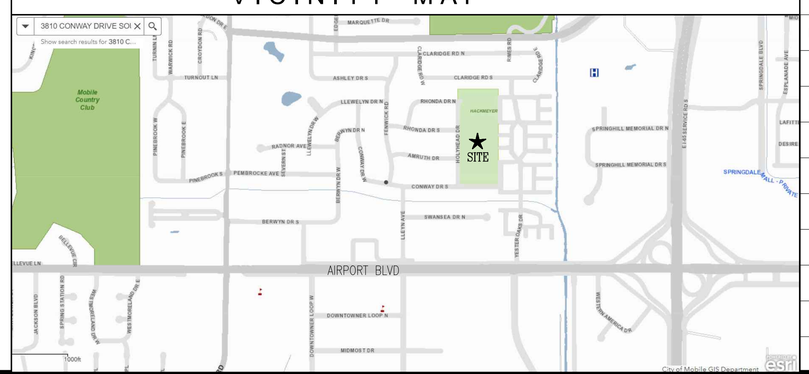
STRUCTURAL
BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
CONTACT: RUSSELL BARTON, PE
(251) 219-4942

MECHANICAL, ELECTRICAL & PLUMBING
H.M.YONGE & ASSOCIATES, INC.
253 ST. ANTHONY STREET
MOBILE, AL 36603
MECH CONTACT: MATT YONGE, PE
(251) 690-7446
ELEC CONTACT: ARUN T. VARGHESE, PE
(850) 434-2661 EXT 112

LOCATION MAP



VICINITY MAP



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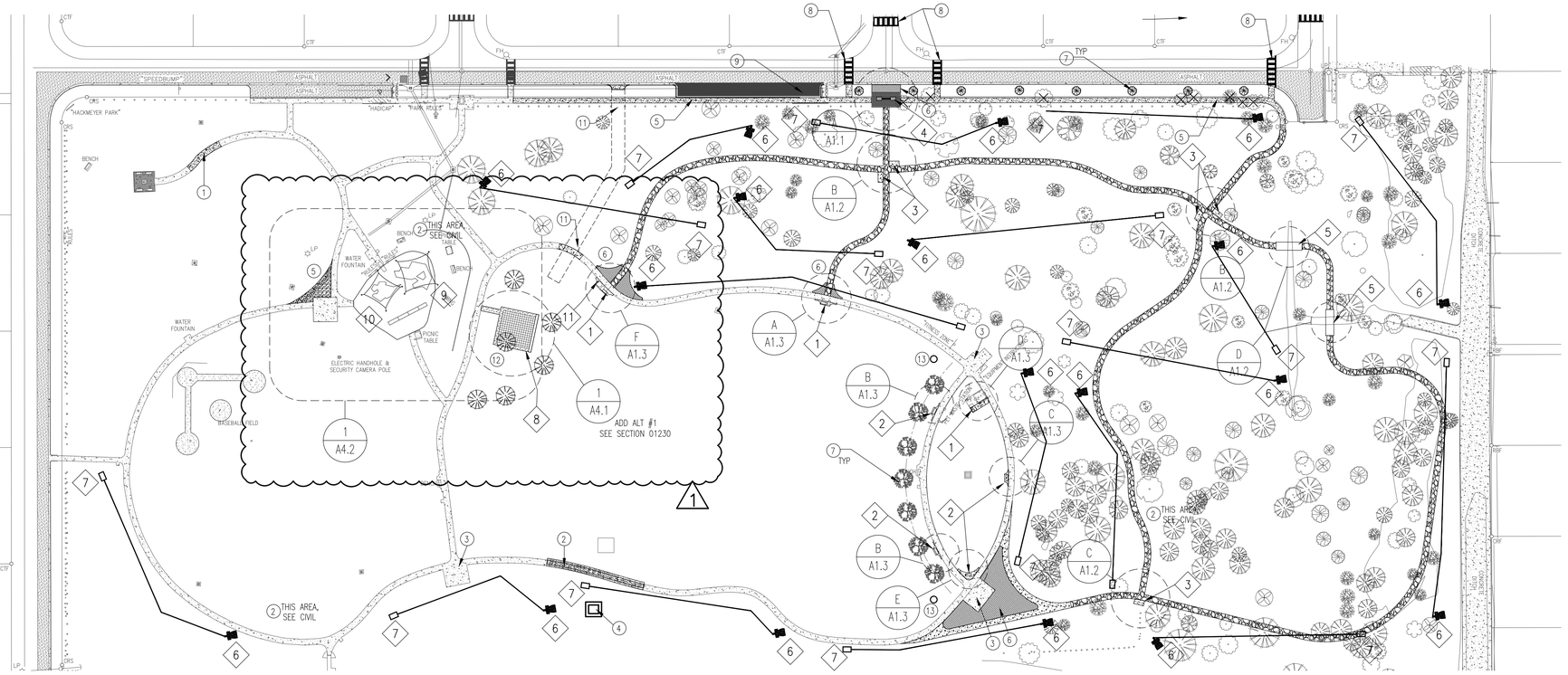
HACKMEYER PARK - IMPROVEMENTS PHASE 2 PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022
1 ADDENDUM 01 – 11.07.21

T1.1

TITLE SHEET

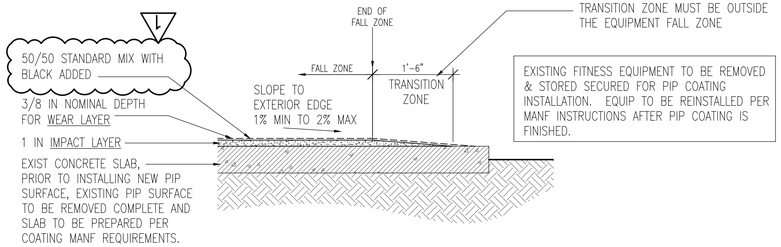


GENERAL NOTES

1. SEE LANDSCAPE OR LP SHEETS FOR NEW LANDSCAPE DESIGN INCLUDED IN THIS SCOPE.
2. SEE A3.1 SHEET FOR NEW DISK GOLF SIGNAGE LAYOUT & SCHEDULE.
3. COORDINATE ALL SITE WORK INDICATED ON THIS ARCHITECTURAL SITE PLAN WITH WORK INDICATED ON CIVIL SITE PLAN(S).

KEYNOTES

1. REPLACE 4" SIDEWALK THIS SECTION DUE TO EXISTING CRACKS, SEE CIVIL FOR CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. REPLACE 4" SIDEWALK THIS SECTION DUE TO GRADE HEIGHT & DRAINAGE ISSUES, SEE CIVIL FOR CONSTRUCTION DETAILS AND SPECIFICATIONS.
3. REMOVE SURFACE TOPPING MATERIAL ON ALL THREE EXISTING EXERCISE STATION SLABS AND REPLACE WITH NEW PIP SURFACE PER SPECIFICATIONS.
4. INSTALL NEW DRAINAGE INLET PER CIVIL DESIGN.
5. INSTALL 4" SIDEWALK THIS AREA, SEE CIVIL FOR CONSTRUCTION DETAILS AND SPECIFICATIONS.
6. NEW LANDSCAPE PLANT BED PER LANDSCAPE DESIGN SHEETS.
7. NEW TREES PER LANDSCAPE DESIGN SHEETS – (8) NEW TREES IN ROW & (7) NEW TREES AROUND DOG PARK PERIMETER SIDEWALK.
8. NEW ADA CURB CUTS AND CROSS WALKS PER CIVIL DESIGN.
9. NEW PARALLEL PARKING WITH ADA PARKING SPACE PER CIVIL DESIGN.
10. INSTALL 6" SIDEWALK THIS AREA FOR MAINTENANCE TRUCK ACCESS, SEE CIVIL FOR CONSTRUCTION DETAILS AND SPECIFICATIONS.
11. INSTALL (2) 8X8 WOOD BOLLARDS WITH CHAIN PER CIVIL TO FLANK BOTH SIDES OF THE MAINTENANCE ACCESS CROSSING
12. (1) TREE REMOVAL FOR NEW FITNESS CENTER AS REQUIRED.
13. SECURITY CAMERA MOUNTED ON NEW POLE, SEE ELECTRICAL DESIGN.



EXISTING FITNESS EQUIPMENT TO BE REMOVED & STORED SECURED FOR PIP COATING INSTALLATION. EQUIP TO BE REINSTALLED PER MANF INSTRUCTIONS AFTER PIP COATING IS FINISHED.

2 PIP SAFETY SURFACE COATING

SCALE: 3/4"=1'-0"

1 ARCHITECTURAL SITE PLAN - NEW WORK

SCALE: 1/64"=1'-0"

1

FURNITURE , FIXTURE & EQUIPMENT LIST

EQUIP NO.	QUANTITY	ITEM	MODEL NO.	NOTES
1	3	6FT BENCH WITH BACKREST & CENTER ARM REST ADA FLOOR CLEARANCE ADJACENT	ULTRA SITE MODEL #91C-S6	--
2	4	6FT BENCH WITH BACKREST & CENTER ARM REST --	ULTRA SITE MODEL #91C-S6	--
3	5	6FT GABION BENCH WITH WOOD SEAT TOP --	SEE DTLS 5/A1.1 & A1.2 GABION BENCH SCHEDULE THIS SHEET	--
4	1 PAIR	13FT 4IN GABION BENCH WITH TREX SEAT TOP INTEGRATED AROUND BRICK MONUMENT SIGN	SEE DTLS A/A1.1 GABION BENCH SCHEDULE THIS SHEET	--
5	2 PAIR	GABION PEDESTRIAN BRIDGE GUARDRAILS @ 42" HGT FROM FINISH GRADE (COORD. WITH CIVIL DESIGN)	SEE DTLS D/A1.2 & CIVIL CULVERT DESIGN	--
6	18	DISC GOLF GOAL BASKETS	--	CITY OWNER (18) BASKETS CONTRACTOR TO INSTALL
7	18	DISC GOLF TEES	SEE CIVIL DETAILS	--
8	1	FITNESS CENTER	SEE SHEET A4.1 & STRUCTURAL DESIGN	ADD ALTERNATE #1, NFC MODEL SHOWN ON PLAN. VERIFY TREE REMOVAL REQUIRED AT SITE OF EQUIP.
9	1	SHADE DEVICE OVER EXISTING PLAYGROUND GYM – LARGE	SEE SHEET A4.2 & STRUCTURAL DESIGN	ADD ALTERNATE #2, SEE SECTION 01230
10	1	SHADE DEVICE OVER EXISTING PLAYGROUND GYM – SMALL	SEE SHEET A4.2 & STRUCTURAL DESIGN	ADD ALTERNATE #2, SEE SECTION 01230
11		DOG DRINKING FOUNTAIN	HALSEY TAYLOR – ENDURA II TUBULAR	SEE PLUMBING DESIGN

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3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

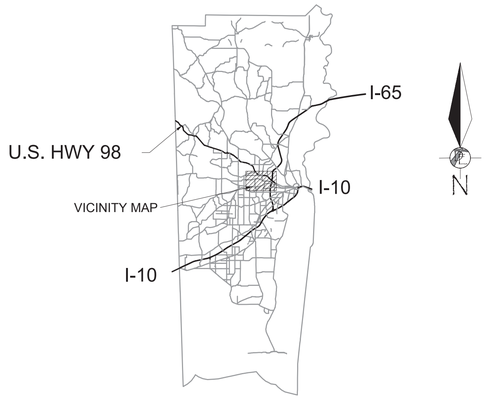
STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022
1 ADDENDUM 01 – 11.07.21

AS1.1

ARCHITECTURAL SITE PLAN - NEW WORK

HACKMEYER PARK
IMPROVEMENT PLANS PHASE 2
CIVIL CONSTRUCTION PLANS
CITY OF MOBILE PROJECT NUMBER: PR-034-21

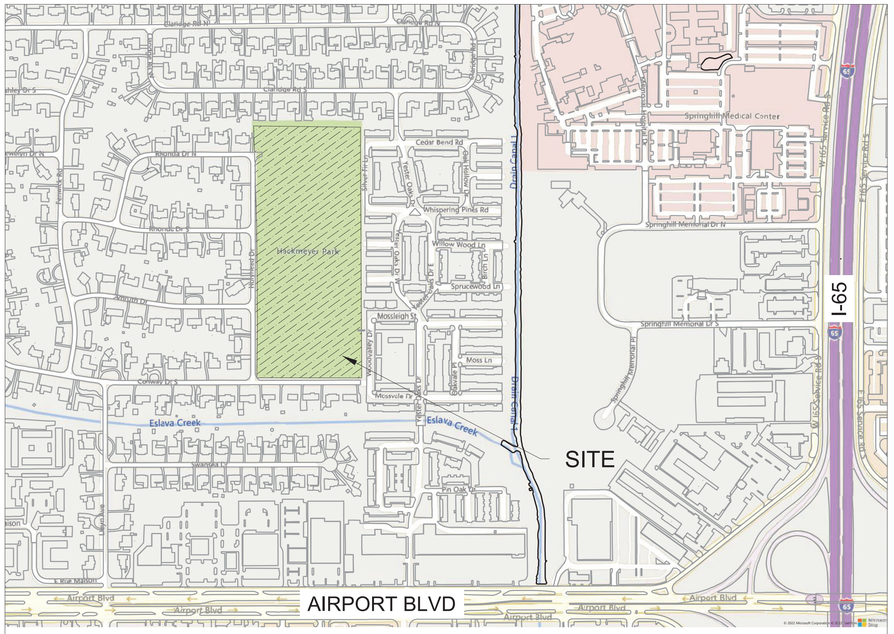


MOBILE COUNTY, AL
N.T.S.

N

SHEET INDEX

Sheet Number	Sheet Title
C1.0	COVER SHEET
C2.0	PROJECT NOTES
C3.0	EXIST. COND AND DEMO
C4.0	SITE PLAN
C5.0	ALIGNMENT DATA, CONTROL POINTS, & CURB CUT DATA
C6.0	SITE PLAN EXTRACTED VIEWS
C7.0	GRADING & DRAINAGE
C8.0	GABION HEADWALL DETAIL
C9.0	CONSTRUCTION DETAILS 1
C10.0	CONSTRUCTION DETAILS 2
C11.0	EROSION CONTROL DETAILS



VICINITY MAP
N.T.S.

N

811 Know what's below. Call before you dig.

Dig Safely. Alabama 1 Call

UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALICALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.

UTILITY OWNERS

CABLE
Comcast Cablevision
Donnie Little
3248 Springhill Ave.
Mobile, AL 36607
Business: (256)716-9265
Cell: (251)295-5334
donnie_little@cable.comcast.com

GAS
Spire
Mr. Joshua Lessley
2828 Dauphin St. Mobile, AL 36606
Office:(251)450-4635
Fax: (251)450-4758
Cell: (251)234-4240
Joshua.Lessley@spireenergy.com

POWER
Alabama Power Company
Luis McMurphy
150 St. Joseph Street
P.O. Box 2247
Mobile, AL 36602
Business: (251)694-2008
Fax: (251)694-3797
lmcmurph@southernco.com

TELEPHONE
AT&T
Mike Smith
2155 Old Shell Rd.
Mobile, AL 36607
Business: (251)470-5660
Cell: (251)591-6630
Fax: (251)471-8267
ms5547@att.com

SEWER
MAWSS
Alan Tyree
4725 Moffett Rd Mobile, AL 36618
Business: (251)694-3155
Fax: (251)694-9412
atyree@mawss.com
rlomax@mawss.com
edobbs@mawss.com

POWER:
City of Mobile Electric
Mobile, AL
Business: (251)208-2840

SURVEYOR'S NOTES:

1. THE PROPERTY IS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NO. 01097C0542 L, DATED 06/05/20, AND IS SHOWN TO BE IN FLOOD ZONE "X-UNSHADED".
2. THIS SURVEY DOES NOT REFLECT ANY TITLE OR EASEMENT RESEARCH OTHER THAN WHAT IS READILY VISIBLE ON THE SURFACE OR PROVIDED BY THE CLIENT.
3. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS.
4. BEARINGS SHOWN HEREON ARE STATE PLANE COORDINATE GRID BEARINGS AND ARE NOT GEODETIC BEARINGS. CONVERGENCE ANGLE FROM GRID NORTH TO GEODETIC NORTH IS -00° 19' 30".
5. UNDERGROUND UTILITIES SHOWN HEREON WERE ESTABLISHED BY FIELD MEASUREMENTS OF MARKINGS PLACED ON THE GROUND BY VARIOUS UTILITY COMPANIES IN RESPONSE TO LINE LOCATE TICKET NUMBER 213550165 OR AS SHOWN ON AS-BUILT DRAWINGS PROVIDED BY UTILITY COMPANIES.

SUBMITTED BY: _____ DATE: 10/28/2022
AVALISHA L. FISHER, P.E., ALABAMA REG. NO. 22182

NOTE: THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2018 EDITION.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

Driven Engineering, Inc.
8005 Morris Hill Road
Semmes, AL 36575
(251) 649-4011 office
(251) 645-0971 fax
www.drivenengineering.com

DRIVEN ENGINEERING PROJECT NO. 21078

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690.7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 22182 PROFESSIONAL AVALISHA L. FISHER ENGINEER
10/28/2022

11.02.2022

C1.0

COVER SHEET

PROJECT NOTES

1.STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.

2.THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.

3.THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS PROVIDED FOR THIS PROJECT. CONTRACTOR IS DIRECTED TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY CONFLICT IS FOUND IN THESE PLANS AND/OR BETWEEN THESE PLANS OF OTHER DISCIPLINES FOR THIS PROJECT.

4.WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.

5.ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2008 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED.

6.ALL CONCRETE USED ON THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.

7.UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALICALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES INSIDE OR OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND OR PHYSICALLY LOCATED BY THE CONTRACTOR.

8.ALL ROUND REINFORCED CONCRETE PIPE USED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE CLASS 3 WITH RUBBER GASKETS. ALL ARCH REINFORCED CONCRETE PIPE USED WITHIN COUNTY OR STATE RIGHT-OF-WAY MUST BE CLASS 3 WITH RAM-NEK MASTIC GASKETS.

9.THE WORD OF THE ENGINEER AND OR INSPECTOR SHALL BE FINAL IN ANY MATTER.

10.SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.

11.THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.

12.ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8".

13.ALL SUITABLE EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.

14.ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.

15.ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.

16.ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.

17.HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.

18.CONTRACTOR IS PROHIBITED FROM DISTURBING SITE AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS, PILES OF DIRT, AND OTHER BARE AREAS ARE TO BE COVERED AS DIRECTED BY THE ENGINEER. ANY AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED AND COVERED WITH A FIRM STAND OF GRASS BEFORE FINAL PAYMENT AND FINAL ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST TO THE PROJECT OWNER. IF GRASS WILL NOT GROW ON THE SUBJECT AREA DUE TO POOR WEATHER CONDITIONS, THE CONTRACTOR AGREES TO PLACE SOD ON THE AREA TO PREVENT EXCESS BARE AREAS FROM CONTRIBUTING SEDIMENT EROSION TO THE AREAS OF THE SITE THAT ARE UNDER CONSTRUCTION.

19.THE MINIMUM IN-PLACE DENSITY REQUIREMENT FOR ITEM 429-A SHALL BE 92.0 WHEN PLACED OVER A GRANULAR SOIL BASE COURSE, PER ALDOT SPECIFICATION SECTION 306.03(g).

20.CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2018 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.

21.ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION.

22.CONTRACTOR MUST PROVIDE A RIGHT-OF-WAY CONSTRUCTION BOND FOR WORK WITHIN CITY OF MOBILE RIGHT-OF-WAY.

23.CONTRACTOR MUST OBTAIN A RIGHT-OF-WAY PERMIT PRIOR TO PERFORMING WORK IN THE RIGHT OF WAY.

24.CONTRACTOR MUST PAY FOR AND PROVIDE ANY STORM SEWER VIDEO THAT MAY BE REQUIRED BY THE CITY.

25.AS SOON AS THE STORM SEWER SYSTEM IS COMPLETE AND THE SUBGRADE IS COMPACTED SO THAT A VIDEO TRUCK CAN ACCESS THE SITE, THE CONTRACTOR IS REQUIRED TO NOTIFY THE ENGINEER THAT HE IS READY FOR A VIDEO INSPECTION OF THE SYSTEM.

26.IF THE PUBLIC WORKS TECHNICIANS ARE UNABLE TO COMPLETE THEIR INSPECTION OF THE STORM SEWER SYSTEM DUE TO ANY BLOCKAGE, THE INSPECTION WILL BE TERMINATED. SECOND AND SUCCESSIVE INSPECTIONS WILL RESULT IN A REDUCTION OF THE CONTRACTORS PAYMENT AT A RATE OF $250 PER HOUR BEGINNING WITH THE TECHNICIANS' ARRIVAL ON SITE.

27.ALL PROBLEMS IDENTIFIED BY THE VIDEO INSPECTION MUST BE RESOLVED PRIOR TO PLACING ANY PERMANENT PAVEMENTS ON THE AREA WHERE THE PIPES ARE LOCATED. AND PRIOR TO THE CONTRACTOR BEING PAID FOR STORM SEWER ITEMS. NO PAYMENT FOR STORM SEWER ITEMS WILL BE MADE PRIOR TO COMPLETION OF A SUCCESSFUL VIDEO INSPECTION AND APPROVAL OF THE SYSTEM BY THE CITY OF MOBILE.

28.CONTRACTOR IS REQUIRED TO PROTECT THE PUBLIC ON ROADWAYS APPROACHING THE PROJECT AND WITHIN THE PROJECT LIMITS BY PROVIDING AND IMPLEMENTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES , CURRENT EDITION. CONTRACTOR MAY BE REQUIRED TO ASSIST MOTORIST WITH FLAGGING PER MUTCD REQUIREMENTS IF WORKING CLOSE TO BUT NOT IN THE ROADWAY ADJACENT TO THE SITE.

29.NO "BIRDBATHS" WILL BE ALLOWED TO REMAIN ON THE SITE. CONTRACTOR IS REQUIRED TO MAKE REPAIRS THAT WILL SATISFACTORILY ELIMINATE BIRDBATHS AND NOT LEAVE THE SITE APPEARING "REPAIRED".

30.ALL PAINTED DIRECTIONAL MARKINGS SHALL BE WHITE AND LETTER HEIGHTS SHALL BE A MINIMUM OF 20" UNLESS LOCAL JURISDICTION REQUIRES OTHERWISE.

31.SHOULDER SLOPE, WIDTH, & DITCH FRONT SLOPE ALONG THE CITY MAINTAINED ROAD SHALL BE MAINTAINED IN FRONT OF THE DEVELOPMENT.

32.CONTRACTOR IS PROHIBITED FROM DISTURBING SITE AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS, PILES OF DIRT, AND OTHER BARE AREAS ARE TO BE COVERED AS DIRECTED BY THE ENGINEER. ANY AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED AND COVERED WITH A FIRM STAND OF GRASS BEFORE FINAL PAYMENT AND FINAL ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST TO THE DEVELOPER. IF GRASS WILL NOT GROW ON THE SUBJECT AREA DUE TO POOR WEATHER CONDITIONS, THE CONTRACTOR AGREES TO PLACE SOD ON THE AREA TO PREVENT EXCESS BARE AREAS FROM CONTRIBUTING SEDIMENT EROSION TO THE AREAS OF THE SITE THAT ARE UNDER CONSTRUCTION.

33.THE TREES INDICATED ARE TO BE PRESERVED. THE CONTRACTOR IS DIRECTED TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR THESE TREES. NO VEHICLES OR HEAVY EQUIPMENT SHALL BE PARKED OR STORED UNDER THE CANOPY OF THESE TREES. WHEN SUBGRADE IS EXCAVATED IN THE ROOT ZONE OF THESE TREES, ROOTS ARE TO BE SAWED NOT RIPPED WITH HEAVY EQUIPMENT SUCH AS BACKHOE BUCKETS. NO METHOD OF ROOT REMOVAL WILL BE DONE BY ANY METHOD THAT WOULD RESULT IN ANY DISPLACEMENT OF ROOTS THAT ARE TO REMAIN.

34.TOP OF INLETS SHOULD BE BUILT TO SIZE SHOWN WITH BOTTOM FLARED TO PIPE DIAMETER PLUS 1'-0". THIS EXTRA WIDTH OF BOTTOM IS TO BE CARRIED ABOVE PIPE BEFORE TAPERING BACK TO SIZE OF TOP.

35.ALL BRICK WALLS SHALL BE PLASTERED INSIDE AND OUTSIDE WITH A 1/2" COAT OF 1:2 CEMENT/SAND MORTAR.

36.EQUAL SUBSTITUTE CASTINGS MAY BE USED IF APPROVED BY THE ENGINEER.

37.INLETS, MANHOLES AND JUNCTION BOXES OVER 4 FEET DEEP ARE TO HAVE STEPS. FOR LADDER BAR AND POLYETHYLENE STEP DETAILS REFER TO ALDOT SPECIAL DRAWING NO. I-621 (SHEET 2 OF 4), INDEX NO. 607

38.LIDS TO INLETS AND JUNCTION BOXES MUST BE PLACED SO THAT STEPS ARE ACCESSIBLE. STEPS THAT ARE INACCESSIBLE ARE SUFFICIENT CAUSE TO REQUIRE REPLACEMENT OF SOME OR ALL OF THE SUBJECT STRUCTURE.

39.HDPE PIPE SHALL BE CORRUGATED SMOOTH FLOW POLYETHYLENE PIPE, TYPE ADS N-12 OR ENGINEER APPROVED EQUIVALENT.

40.FILTER BLANKET USED WITH RIPRAP SHALL BE A NON-WOVEN GEOTEXTILE TYPE GEOTEX 801 OR ENGINEER APPROVED EQUIVALENT.

41.THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE TESTING LABORATORY OF HIS WORKING SCHEDULE IN ORDER THAT THE PROPER SAMPLE MAY BE OBTAINED AND TEST MADE.

42.REMOVAL OF ROADWAY DIRT AND DEBRIS SHALL BE CONSIDERED A SUBSIDIARY ITEM OF ALL ASPHALT PAVING ITEMS.

43.PLEASE REFER TO THE STRIPING DETAIL FOR ALL QUESTIONS REGARDING PLACEMENT AND DIMENSIONS OF EDGE LINE STRIPING.

44.THE COST OF REMOVAL OF EXCESSIVE MATERIAL FROM THE SHOULDERS IN ORDER TO MEET PLAN TYPICAL SECTIONS, SHALL BE CONSIDERED A SUBSIDIARY ACTION OF ALL ASPHALT PAY ITEMS.

45. THE CONTRACTOR SHALL TACK WELD ALL COVERS/GRATES WITHIN THE PROJECT LIMITS AFTER A SATISFACTORY INSPECTION BY THE ENGINEER AND PRIOR TO FINAL ACCEPTANCE. THERE SHALL BE A MINIMUM OF FOUR (4) WELDS PER COVER/GRATE SPACED EVENLY AROUND THE EDGE OF THE COVER/GRATE. THE COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE ITEM ASSOCIATED WITH THE COVER/GRATE.

46.SIDEWALK CONSTRUCTION SHOWN ON THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 1991 TITLE II, TITLE III, AND ANY STATE, COUNTY, LOCAL, OR OTHER APPLICABLE LAWS.

49. ANY STORM SEWER VIDEOS THAT REVEAL INSTALLATION PROBLEMS REQUIRING REPAIRS WILL NECESSITATE A REPEAT OF THE VIDEO PROCESS ON THE SUBJECT STORM SEWER SEGMENTS. RE-REVIEWS OF STORM SEWER VIDEOS BY THE CIVIL ENGINEER WILL BE COMPLETED AT THE CIVIL ENGINEER'S REGULAR BILLING RATES, AND THE COST OF THIS ADDITIONAL EFFORT WILL BE THE CONTRACTOR'S RESPONSIBILITY.

50. THE PROPERTY IS LOCATED IN FLOOD ZONE "X-UNSHADED" ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 01097C0542 L, DATED 06/05/20. (DETERMINED BY ELEVATION).

51. LEGAL DESCRIPTION.
STATE OF ALABAMA
COUNTY OF MOBILE
BEGINNING AT A CRIMP TOP PIPE AT THE SOUTHEAST CORNER OF LOT 10, LLANFAIR - UNIT THREE, AS RECORDED IN MAP BOOK 14, PAGE 3 OF THE RECORDS IN THE OFFICE OF THE JUDGE OF PROBATE, MOBILE COUNTY, ALABAMA; THENCE RUN NORTH 00°-01'-22" WEST ALONG THE EAST LINE OF SAID LOT 10 A DISTANCE OF 124.83 FEET TO A CAPPED REBAR (WATTIER); THENCE CONTINUE NORTH 00°-01'-22" EAST A DISTANCE OF 27.00 FEET TO THE SOUTH LINE OF YESTER OAKS, SECTION EIGHT, AS RECORDED IN MAP BOOK 20, PAGE 60 OF THE RECORDS IN THE OFFICE OF THE JUDGE OF PROBATE, MOBILE COUNTY, ALABAMA; THENCE RUN NORTH 89°-51'-41" EAST ALONG SAID SOUTH LINE A DISTANCE OF 600.91 FEET TO A CONCRETE MONUMENT; THENCE RUN SOUTH 00°-00'-07" EAST A DISTANCE OF 1,412.69 FEET TO THE NORTHEAST CORNER OF CONWAY DRIVE SOUTH (50' R/W); THENCE RUN SOUTH 89°-57'-09" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE A DISTANCE OF 15.00 FEET TO A CAPPED REBAR (WATTIER); THENCE CONTINUE SOUTH 89°-57'-09" WEST ALONG THE NORTH RIGHT-OF-WAY LINE OF SAID CONWAY DRIVE SOUTH A DISTANCE OF 536.32 FEET TO A CAPPED REBAR (WATTIER) AT THE POINT OF CURVE OF A CURVE TO THE RIGHT (HAVING A DELTA OF 90°-01'-08", A RADIUS OF 25.00 FEET, A CHORD BEARING OF NORTH 45°-02'-17" WEST, AND A CHORD LENGTH OF 35.36 FEET); THENCE RUN NORTHWESTWARDLY ALONG SAID RIGHT-OF-WAY LINE AND ALONG THE ARC OF SAID CURVE A DISTANCE OF 39.28 FEET TO A CAPPED REBAR (WATTIER) ON THE EAST RIGHT-OF-WAY LINE OF HOLYHEAD DRIVE (50' R/W); THENCE RUN NORTH 00°-01'-43" WEST ALONG SAID EAST RIGHT-OF-WAY LINE A DISTANCE OF 1,159.88 FEET TO A CAPPED REBAR (WATTIER) AT THE POINT OF CURVE OF A CURVE TO THE RIGHT (HAVING A DELTA OF 90°-00'-00", A RADIUS OF 25.00 FEET, A CHORD BEARING OF NORTH 44°-58'-17" EAST, AND A CHORD LENGTH OF 35.36 FEET); THENCE RUN NORTHEASTWARDLY ALONG SAID RIGHT-OF-WAY LINE AND ALONG THE ARC OF SAID CURVE A DISTANCE OF 39.27 FEET TO A CAPPED REBAR (WATTIER); THENCE RUN NORTH 00°-01'-43" WEST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 50.00 FEET TO A CAPPED REBAR (WATTIER) ON THE NORTH RIGHT-OF-WAY LINE OF RHONDA DRIVE NORTH (50' R/W); THENCE RUN SOUTH 89°-58'-38" WEST ALONG SAID NORTH RIGHT-OF-WAY LINE A DISTANCE OF 48.94 FEET TO THE POINT OF BEGINNING. THE DESCRIBED PARCEL CONTAINS 18.74 ACRES, MORE OR LESS.

LEGEND

(R)	RECORD BEARING OR DISTANCE
(A)	ACTUAL BEARING OR DISTANCE
CRF	CAPPED REBAR FOUND (BUSBY)
CMF	4"x4" CONCRETE MONUMENT FOUND
CTF	CRIMP TOP PIPE FOUND
RBF	5/8" REBAR FOUND
CRS	CAPPED REBAR SET
LP	LIGHT POLE
	GUY POLE W/ANCHOR
	ELECTRIC SERVICE POLE
EH	ELECTRIC VAULT
	FIRE HYDRANT
S	SANITARY SEWER MANHOLE
"STOP"	SIGN
	STORM DRAIN PIPE
	WOOD PRIVACY FENCE
	CHAIN LINK FENCE
	WROUGHT FENCE
	LIVE OAK TREE
	OAK TREE
	PINE TREE
	MAGNOLIA TREE
	POPLAR TREE
	MAPLE TREE
	SYCAMORE TREE
	SWEETGUM TREE
	BAY TREE
	CAMPHOR TREE
	POPCORN TREE
	UNKNOWN TREE
XX.XX	PROPOSED SPOT ELEVATION
XX.XX	EXISTING SPOT ELEVATION
XX	PROPOSED LAYOUT POINT

101	PROPOSED INTERMEDIATE CONTOUR
100	PROPOSED INDEX CONTOUR
11	EXISTING INTERMEDIATE CONTOUR
10	EXISTING INDEX CONTOUR
	FORESHORTENED LINE
	EXISTING EASEMENT
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	MATCH LINE
	RIGHT-OF-WAY TBA
	EASEMENT TBA
	PROPOSED PROPERTY LINE
X X X X	FENCE RESET LOCATION
	PROPOSED EDGE OF PAVEMENT
	ADJOINER'S PROPERTY LINES
	EXISTING EDGE OF PAVEMENT
OHP	EXIST OVERHEAD UTILITY LINE(S)
UT	EXIST UNDERGROUND TELEPHONE LINE
GAS	EXIST. UNDERGROUND GAS LINE OR PIPELINE
UP	EXISTING UNDERGROUND POWER LINE
SS	EXIST SANITARY SEWER LINE
W	EXISTING WATER LINE
	LIMITS OF CONSTRUCTION
	REQ'D SILT FENCE
	EXISTING GUARD RAIL LEFT
	EXISTING GUARD RAIL RIGHT
SS	EXIST SANITARY SEWER STEEL ENCASEMENT LINE

PATTERNS

	EXIST. CONCRETE
	EXIST. ASPHALT
	PROPOSED GRAVEL
	PROPOSED CONCRETE
	PROPOSED RIP RAP
	ITEMS TO BE DEMO'D
	PROPOSED ASPHALT

ABBREVIATIONS

(A)	ACTUAL
(R)	RECORD
(D)	DEED CALL
(M)	FIELD MEASUREMENT
(P)	PLAT (UNRECORDED)
B.O.B.	BASIS OF BEARINGS
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
R/W	RIGHT-OF-WAY
TBA	TO BE ACQUIRED
FFE	FINISHED FLOOR ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE
CSFPE	CORRUGATED SMOOTH FLOW POLYETHYLENE PIPE
LS	LUMP SUM
SY	SQUARE YARD
LF	LINEAR FOOT
EA	EACH
CY	CUBIC YARD
STA	STATION
GAL	GALLON
AC	ACRE
SF	SQUARE FOOT
LB	POUND
REQD	REQUIRED
EOP	EDGE OF PAVEMENT OR END OR PROJECT
EX/EXIST	EXISTING
MIN	MINIMUM
BOP	BEGINNING OF PROJECT
TYP	TYPICAL
ELEV	ELEVATION
RET	RETAIN(ED)
FO	FIBER OPTIC

CITY OF MOBILE NOTES

50. CONTRACTOR MUST PROVIDE A RIGHT-OF-WAY CONSTRUCTION BOND.

51. CONTRACTOR MUST OBTAIN A RIGHT-OF-WAY PERMIT PRIOR TO PERFORMING WORK IN THE RIGHT OF WAY.

52. CONTRACTOR MUST PAY FOR AND PROVIDE ANY STORM SEWER VIDEO THAT MAY BE REQUIRED BY THE CITY.

53. ALL PAINT STRIPING SPECIFIED ON THE PLANS MUST BE THERMOPLASTIC.

54. THE MINIMUM IN-PLACE DENSITY REQUIREMENT FOR ITEM 429-A SHALL BE 92.0 WHEN PLACED OVER A GRANULAR SOIL BASE COURSE, PER ALDOT SPECIFICATION SECTION 306.03(g).

A. PERMITTEES ARE REQUIRED TO INSTALL AN IDENTIFICATION TAG ON ALL ASPHALT ROADWAY SURFACE OVERLAYS OR PATCHES REQUIRED BY THE CONSTRUCTION STANDARDS AND ON ALL TEMPORARY ASPHALT OVERLAYS OR PATCHES OF ANY CONCRETE ROADWAY SURFACE OR CONCRETE SIDEWALK SURFACE.

B. IDENTIFICATION TAGS ARE NOT INTENDED TO IDENTIFY UNDERGROUND UTILITY INFRASTRUCTURE. THEY ARE INTENDED TO IDENTIFY THE PERMITTEE WHO IS RESPONSIBLE FOR AN ASPHALT OVERLAY OR PATCH AND FOR MAINTAINING THE ASPHALT OVERLAY OR PATCH AS REQUIRED BY THIS CHAPTER AND THE CONSTRUCTION STANDARDS.

C. IDENTIFICATION TAGS MUST BE USED ON ANY TEMPORARY OR PERMANENT ASPHALT OVERLAY OR PATCH. IDENTIFICATION TAG REQUIREMENTS WILL BE ESTABLISHED BY THE CITY ENGINEER, BUT PERMITTEES ARE RESPONSIBLE FOR INSTALLING IDENTIFICATION TAGS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
1. IDENTIFICATION TAGS MUST BE INSTALLED DURING THE FINAL LAYER OF PAVING. THE TAGS MUST BE PRESSED INTO THE ASPHALT BEFORE COMPACTION OF THE FINAL LAYER COMMENCES. ALL IDENTIFICATION TAGS MUST BE EMBEDDED AT ZERO GRADE TOLERANCE.
2. THE USE OF NAILS, SCREWS, STAPLES, OR OTHER METAL FASTENERS TO SECURE TAGS IS PROHIBITED.
3. IDENTIFICATION TAGS SHOULD NOT BE PLACED WITHIN TWELVE (12) INCHES OF ANY CASTING UNLESS SPACE DOES NOT ALLOW OTHERWISE. TAGS SHOULD BE PLACED AWAY FROM DIRECT WHEEL TRAFFIC WHEN POSSIBLE.
4. THE PERMITTEE IS RESPONSIBLE FOR REPLACING DAMAGED, FADED, OR MISSING IDENTIFICATION TAGS DURING THE LIFE OF ANY TEMPORARY OVERLAY OR PATCH AND FOR A PERIOD OF THREE (3) YEARS AFTER A PERMANENT OVERLAY OR PATCH HAS BEEN LAID.
5. IDENTIFICATION TAGS MUST BE PLACED IN ACCORDANCE WITH THE GUIDELINES IN TABLE 1. ALL LATERALS EXTENDING FROM THE MAIN PATCH MUCH HAVE THEIR OWN TAG PLACED IN THE CENTER OF THE LATERAL.

TABLE 1

PATCH LENGTH	TAG PLACEMENT
LESS THAN 50 FEET	1 TAG PLACED IN THE CENTER OF THE OVERLAY OR PATCH.
50 FEET TO 100 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE AND NOT IN THE WHEEL PATH, OR AS OTHERWISE DIRECTED BY THE ENGINEER.
100 FEET TO 400 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE ANIDED NOT IN THE WHEEL PATH, AND I TAG PLACED IN THE CENTER OF THE OVERLAY OR PATCH, OR AS OTHERWISE DIRECTED BY THE ENGINEER. AN ADDITIONAL TAG MUST BE PLACED IN THE CENTER OF THE OVERLAY OR PATCH AT EVERY INTERSECTING STREET.
GREATER THAN 400 FEET	1 TAG PLACED AT EACH END OF THE OVERLAY OR PATCH A MINIMUM OF 12 INCHES FROM THE END AND EDGE AND NOT IN THE WHEEL PATH, AND AT 200 LINEAR FOOT INTERVALS WITH EACH TAG LOCATED A MINIMUM OF 12 INCHES FROM THE EDGE AND NOT IN THE WHEEL PATH, OR AS OTHERWISE DIRECTED BY THE ENGINEER. AN ADDITIONAL TAG MUST BE PLACED IN THE CENTER OF THE OVERLAY OR PATCH AT EVERY INTERSECTING STREET.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL.
PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 21102 PROFESSIONAL ENGINEER
10/28/2022

11.02.2022

Driven Engineering, Inc.
8005 Morris Hill Road
Semmes, AL 36575
(251) 649-4011 office
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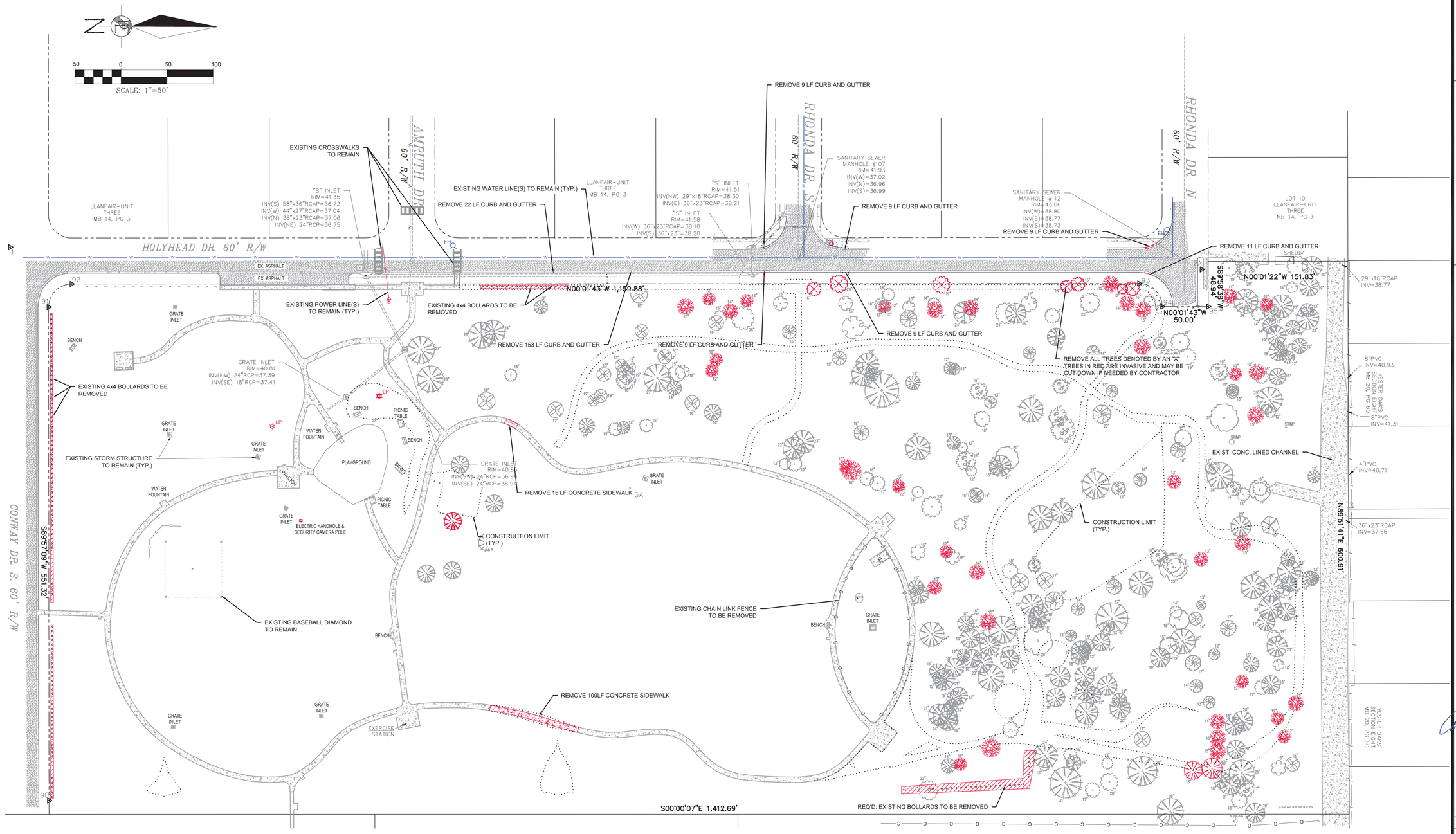
DRIVEN ENGINEERING PROJECT NO. 21078

C2.0

PROJECT NOTES



NOTE:
REFER TO SHEETS C4.0 AND C5.0 FOR CONTROL POINT AND CURB CUT DATA

ALL EXISTING UTILITIES TO REMAIN

EROSION AND SEDIMENT CONTROL SHOWN ON C7.0 NEED TO BE IN PLACE PRIOR TO DEMOLITION WORK.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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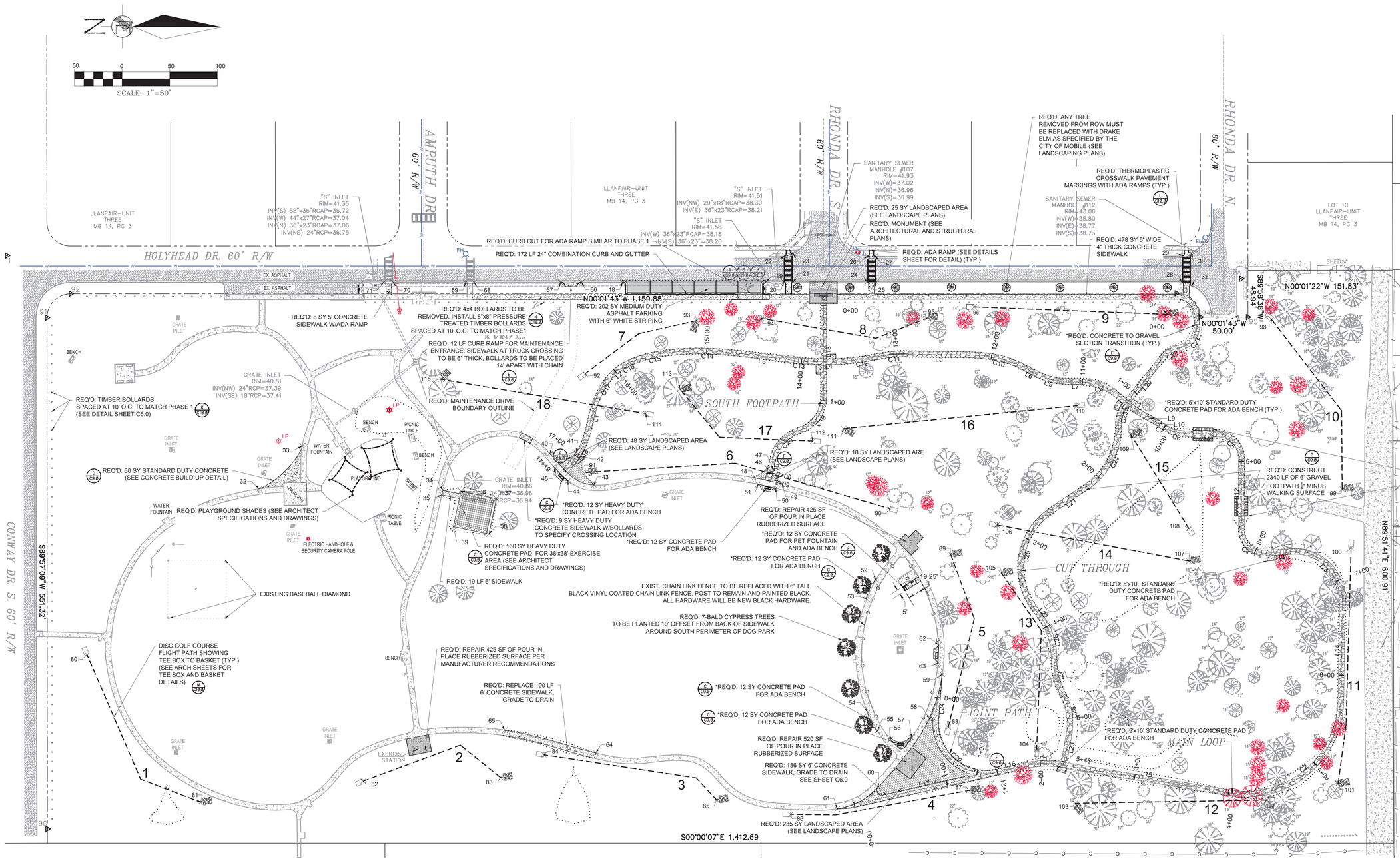
ALABAMA LICENSED 22102 PROFESSIONAL ENGINEER

10/28/2022

11.02.2022

C3.0

EXIST. COND AND DEMO



GENERAL NOTES

ALL BENCHES WILL BE 3'x6' 9-GAUGE WELDED GABION BENCHES WITH WOODEN TOPS. (SEE ARCHITECT SPECIFICATIONS AND DRAWINGS)

SEE ELECTRICAL DRAWINGS FOR SECURITY CAMERA LOCATIONS AND PLUMBING DRAWINGS FOR NEW DOG DRINKING FOUNTAIN LOCATION.

CONTRACTOR SHALL INCLUDE AND COORDINATE ALL GABION BENCHES AND GABION HEADWALL DESIGN SHOWN IN CIVIL AND ARCHITECTURAL PLANS.

FOR COMPLETE PROJECT SCOPE SEE BOTH CIVIL AND ARCHITECTURAL SITE PLANS.

SEE SHEET C5.0 FOR PATH LAYOUT COORDINATES

SEE ARCHITECTURAL PLANS FOR DISC TEE BOXES AND BASKETS.

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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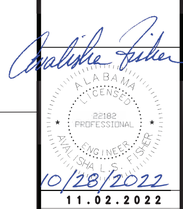

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DRIVEN ENGINEERING PROJECT NO. 21078

C4.0

SITE PLAN

MAIN LOOP

Number	Degree of Curve/Radius	Length	Line/Chord Direction	START STATION	END STATION	START COORDINATE	END COORDINATE	RADIUS POINT COORDINATE
L17		153.95	N12° 44' 39.41"W	-0+00.00	1+53.95	N 248548.87 E 1768623.41	N 248699.04 E 1768589.45	
L16		29.77	N12° 44' 37.57"W	1+53.95	1+83.73	N 248699.04 E 1768589.45	N 248728.08 E 1768582.88	
C1	057° 17' 36.98" 100.00	38.58 (CHORD)	N1° 37' 22.74"W	1+83.73	2+22.55			N 248750.14 E 1768680.42
L15		179.00	N9° 29' 53.64"E	2+22.55	4+01.55	N 248766.64 E 1768581.79	N 248943.19 E 1768611.33	
C2	057° 21' 12.07" 99.90	151.54 (CHORD)	N39° 49' 43.10"W	4+01.55	5+73.56			N 248959.67 E 1768512.80
L14		105.44	N89° 09' 19.84"W	5+73.56	6+79.00	N 249059.56 E 1768514.27	N 249061.11 E 1768408.84	
C3	114° 35' 29.61" 50.00	73.56 (CHORD)	S43° 29' 20.90"W	6+79.00	7+61.65			N 249011.12 E 1768408.11
L13		25.93	S3° 51' 58.36"E	7+61.65	7+87.59	N 249007.75 E 1768358.22	N 248981.87 E 1768359.97	
C4	229° 10' 59.22" 25.00	36.53 (CHORD)	S43° 04' 00.82"W	7+87.59	8+28.54			N 248980.19 E 1768335.03
L12		74.93	N90° 00' 00.00"W	8+28.54	9+03.47	N 248955.19 E 1768335.03	N 248955.19 E 1768260.10	
C5	229° 10' 59.23" 25.00	35.18 (CHORD)	S45° 16' 43.79"W	9+03.47	9+42.49			N 248930.19 E 1768260.10
L11		28.60	S0° 08' 19.97"W	9+42.49	9+71.10	N 248930.43 E 1768235.10	N 248901.83 E 1768235.03	
C6	097° 48' 32.15" 58.58	27.31 (CHORD)	S13° 37' 00.00"W	9+71.10	9+98.65			N 248901.97 E 1768176.45
C7	190° 16' 38.13" 30.11	7.55 (CHORD)	S34° 17' 47.88"W	9+98.65	10+06.22			N 248889.01 E 1768201.80
L10		5.03	S33° 12' 18.05"W	10+06.22	10+11.25	N 248869.05 E 1768224.35	N 248864.85 E 1768221.60	
L9		15.06	S28° 34' 52.17"W	10+11.25	10+26.31	N 248864.85 E 1768221.60	N 248851.63 E 1768214.39	
L8		37.65	S37° 31' 33.66"W	10+26.31	10+63.96	N 248851.63 E 1768214.39	N 248821.76 E 1768191.46	
C8	105° 33' 31.01" 54.28	32.29 (CHORD)	S20° 13' 19.28"W	10+63.96	10+96.75			N 248788.70 E 1768234.50
L7		20.33	S2° 04' 30.61"W	10+96.75	11+17.08	N 248791.46 E 1768180.30	N 248771.15 E 1768179.56	
C9	075° 23' 03.86" 76.00	34.31 (CHORD)	S15° 07' 12.27"W	11+17.08	11+51.69			N 248773.90 E 1768103.60
L6		7.64	S27° 28' 54.35"W	11+51.69	11+59.32	N 248738.03 E 1768170.61	N 248731.25 E 1768167.09	
C10	041° 52' 44.80" 136.81	62.39 (CHORD)	S14° 18' 08.49"W	11+59.32	12+22.26			N 248668.12 E 1768288.46
L5		65.05	S0° 42' 07.76"W	12+22.26	12+87.32	N 248670.80 E 1768151.67	N 248605.75 E 1768150.88	
C11	032° 47' 50.45" 174.70	30.94 (CHORD)	S4° 22' 43.46"E	12+87.32	13+18.30			N 248603.61 E 1768325.56
C12	008° 22' 30.56" 684.12	38.06 (CHORD)	S7° 51' 56.87"E	13+18.30	13+56.36			N 248462.46 E 1767478.43
L4		29.92	S0° 35' 11.50"E	13+56.36	13+86.28	N 248537.20 E 1768158.45	N 248507.28 E 1768158.75	
C13	033° 40' 22.81" 170.15	31.97 (CHORD)	S4° 48' 16.86"W	13+86.28	14+18.30			N 248505.54 E 1767988.61
L3		45.20	S7° 09' 22.90"W	14+18.30	14+63.50	N 248475.42 E 1768156.07	N 248430.57 E 1768150.44	
C14	016° 30' 08.60" 347.20	71.31 (CHORD)	S1° 15' 44.78"W	14+63.50	15+34.93			N 248387.32 E 1768494.94
C15	036° 29' 10.60" 157.03	41.41 (CHORD)	S12° 12' 31.80"E	15+34.93	15+76.47			N 248371.96 E 1768305.39
C16	083° 40' 17.57" 68.48	19.54 (CHORD)	S27° 59' 21.65"E	15+76.47	15+96.08			N 248341.99 E 1768222.06
L2		6.85	S40° 43' 13.31"E	15+96.08	16+02.92	N 248301.55 E 1768166.80	N 248296.36 E 1768171.27	
C17	092° 47' 17.52" 61.75	36.78 (CHORD)	S57° 47' 48.49"E	16+02.92	16+40.27			N 248336.44 E 1768218.24
L1		31.04	S76° 42' 30.53"E	16+40.27	16+71.30	N 248276.76 E 1768202.39	N 248269.63 E 1768232.59	
C18	068° 08' 03.64" 84.09	47.29 (CHORD)	S60° 10' 11.50"E	16+71.30	17+19.24			N 248187.86 E 1768212.96

SOUTH FOOTPATH

Number	Degree of Curve/Radius	Length	Line/Chord Direction	START STATION	END STATION	START COORDINATE	END COORDINATE	RADIUS POINT COORDINATE
L18		96.80	N89° 54' 41.34"E	0+00.00	0+96.80	N 248516.59 E 1768099.91	N 248516.74 E 1768196.71	
C19	159° 32' 25.07" 35.91	42.41 (CHORD)	S53° 53' 50.49"E	0+96.80	1+42.17			N 248480.83 E 1768196.77
C20	133° 56' 41.59" 42.78	37.56 (CHORD)	S43° 44' 55.05"E	1+42.17	1+81.06			N 248504.76 E 1768271.73
L19		27.59	S77° 17' 44.25"E	1+81.06	2+08.65	N 248464.62 E 1768256.95	N 248458.55 E 1768283.87	

CUT THROUGH

Number	Degree of Curve/Radius	Length	Line/Chord Direction	START STATION	END STATION	START COORDINATE	END COORDINATE	RADIUS POINT COORDINATE
C21	229° 10' 59.22" 25.00	31.95 (CHORD)	S50° 17' 19.45"E	0+00.00	0+34.65			N 248883.61 E 1768120.24
C22	229° 10' 59.22" 25.00	17.21 (CHORD)	S30° 42' 37.21"E	0+34.65	0+52.22			N 248892.79 E 1768169.39
L20		68.44	S51° 13' 20.37"E	0+52.22	1+20.66	N 248873.40 E 1768153.61	N 248830.54 E 1768206.96	
C23	146° 23' 29.37" 39.14	19.48 (CHORD)	S76° 40' 05.52"E	1+20.66	1+40.35			N 248865.18 E 1768225.18
C24	075° 22' 57.47" 76.01	72.48 (CHORD)	S62° 35' 59.71"E	1+40.35	2+15.90			N 248750.05 E 1768227.34
L21		46.73	S34° 07' 25.44"E	2+15.90	2+62.63	N 248792.69 E 1768290.26	N 248754.00 E 1768316.48	
C25	079° 58' 44.38" 71.64	101.18 (CHORD)	S80° 14' 44.45"E	2+62.63	3+74.97			N 248795.42 E 1768374.93
L22		22.64	N54° 49' 48.28"E	3+74.97	3+97.61	N 248736.86 E 1768416.19	N 248749.90 E 1768434.70	
C26	073° 27' 03.71" 78.01	37.73 (CHORD)	N76° 40' 58.51"E	3+97.61	4+35.72			N 248680.59 E 1768470.50
C27	077° 19' 39.27" 74.09	38.97 (CHORD)	N75° 26' 00.93"E	4+35.72	4+75.15			N 248832.68 E 1768472.30
C28	084° 01' 00.82" 68.20	38.80 (CHORD)	N80° 35' 31.30"E	4+75.15	5+14.50			N 248707.07 E 1768538.96
L23		31.91	S79° 48' 24.87"E	5+14.50	5+46.41	N 248774.74 E 1768547.42	N 248769.09 E 1768578.82	

JOINT PATH

Number	Degree of Curve/Radius	Length	Line/Chord Direction	START STATION	END STATION	START COORDINATE	END COORDINATE	RADIUS POINT COORDINATE
L24		22.12	S85° 27' 05.93"E	0+00.00	0+22.12	N 248636.41 E 1768511.47	N 248634.66 E 1768533.52	
C29	108° 06' 18.88" 53.00	85.28 (CHORD)	N40° 59' 06.07"E	0+22.12	1+21.21			N 248687.49 E 1768537.72

REQ'D CURB CUTS AND REMOVALS

NAME	Northing	Easting
18	248305.97	1768075.75
19	248455.93	1768075.57
20	248475.05	1768075.48
21	248484.89	1768075.52
22	248475.83	1768047.96
23	248484.62	1768045.21
24	248562.35	1768075.53
25	248572.09	1768075.53
26	248562.66	1768047.99
27	248571.04	1768048.23
28	248892.76	1768075.92
29	248893.67	1768047.53
30	248902.24	1768044.87
31	248902.90	1768079.15
32	247925.00	1768292.48
33	247969.69	1768247.57
34	248117.22	1768293.93
35	248116.18	1768298.82
36	248136.40	1768294.96
37	248173.57	1768302.87
38	248165.66	1768340.04
39	248128.49	1768332.13
40	248229.65	1768255.55
41	248257.33	1768254.32
42	248262.18	1768257.89
43	248275.91	1768288.44
44	248248.73	1768284.05
45	248235.36	1768270.88
46	248458.28	1768271.50
47	248464.21	1768272.85

REQ'D CURB CUTS AND REMOVALS

NAME	Northing	Easting
48	248443.78	1768280.85
49	248473.11	1768287.45
50	248466.38	1768291.79
51	248448.05	1768287.69
52	248571.53	1768387.99
53	248561.98	1768407.81
54	248563.17	1768526.63
55	248573.23	1768546.19
56	248586.85	1768555.36
57	248609.23	1768553.56
58	248627.74	1768533.51
59	248641.39	1768486.78
60	248574.11	1768605.31
61	248531.01	1768628.02
62	248637.57	1768456.24
63	248636.98	1768475.01
64	248277.88	1768569.36
65	248182.24	1768545.49
66	248262.98	1768075.85
67	248240.98	1768075.85
68	248150.17	1768075.77
69	248141.38	1768075.77
70	248065.23	1768075.87
71	248055.25	1768075.67

CONTROL POINTS

Point	Northing	Easting	Elevation	Description
1	247,660.27	1,768,047.59	43.20	RED CAPPED REBAR (WATTIER)
2A	248,954.87	1,768,071.89	42.83	RED CAPPED REBAR (WATTIER)
3A	248,335.08	1,768,312.11	41.06	RED CAPPED REBAR (WATTIER)
90	247,702.53	1,768,649.03	---	YELLOW CAPPED REBAR (WATTIER)
91	247,702.09	1,768,112.72	---	YELLOW CAPPED REBAR (WATTIER)
92	247,727.08	1,768,087.70	---	YELLOW CAPPED REBAR (WATTIER)
93	248,886.96	1,768,087.12	---	YELLOW CAPPED REBAR (WATTIER)
94	248,911.97	1,768,112.10	---	YELLOW CAPPED REBAR (WATTIER)
95	248,961.97	1,768,112.08	---	YELLOW CAPPED REBAR (WATTIER)

REQ'D DISC TEE BOXES AND BASKETS

NAME	DESCRIPTION	Northing	Easting
80	1T	247744.11	1768466.35
81	1B	247863.22	1768620.88
82	2T	248033.87	1768598.90
83	2B	248178.05	1768595.26
84	3T	248223.46	1768571.29
85	3B	248404.50	1768618.56
86	4T	248482.02	1768633.78
87	4B	248669.36	1768608.69
88	5T	248647.65	1768542.44
89	5B	248650.05	1768361.08
90	6T	248586.56	1768313.38
91	6B	248267.73	1768275.19
92	7T	248266.61	1768171.55
93	7B	248383.85	1768115.80
94	8T	248451.48	1768113.42
95	8B	248624.87	1768113.43
96	9T	248674.77	1768101.45
97	9B	248876.62	1768109.24
98	10T	248986.78	1768114.62
99	10B	249060.85	1768292.72
100	11T	249070.20	1768354.13
101	11B	249056.57	1768601.43
102	12T	248981.98	1768618.66
103	12B	248780.64	1768622.14
104	13T	248740.35	1768565.37
105	13B	248703.32	1768380.68
106	14T	248698.79	1768330.31
107	14B	248899.93	1768368.10
108	15T	248899.93	1768334.03
109	15B	248838.82	1768235.30
110	16T	248782.76	1768204.92
111	16B	248537.83	1768229.09
112	17T	248505.34	1768242.52
113	17B	248366.17	1768187.54
114	18T	248330.16	1768213.22
115	18B	248115.48	1768177.32

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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DRIVEN ENGINEERING PROJECT NO. 21078

MAURIN ARCHITECTURE P.C.
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251 690 7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

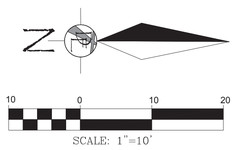
ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER CHARLES L. S.

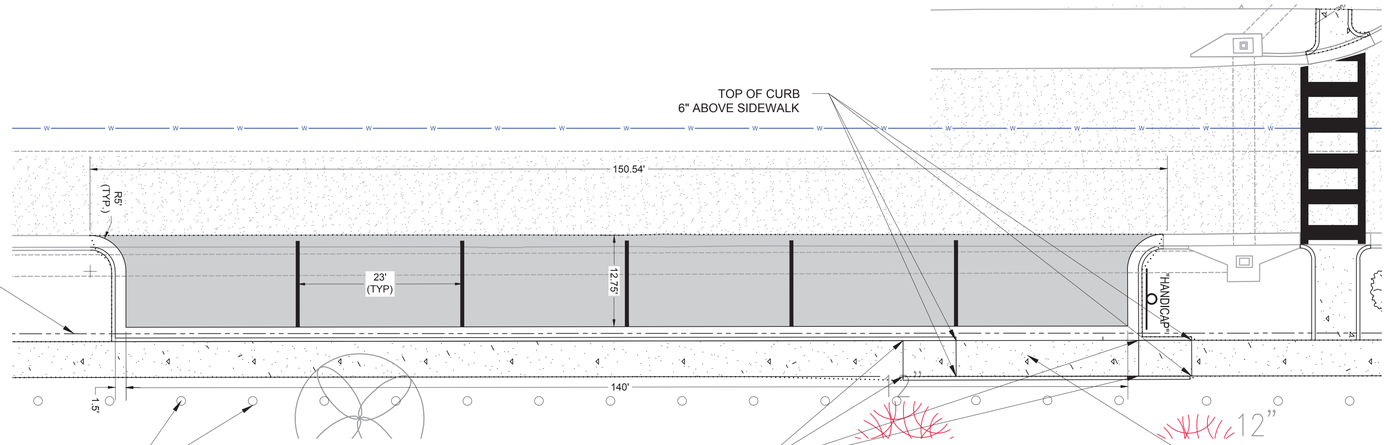
10/28/2022

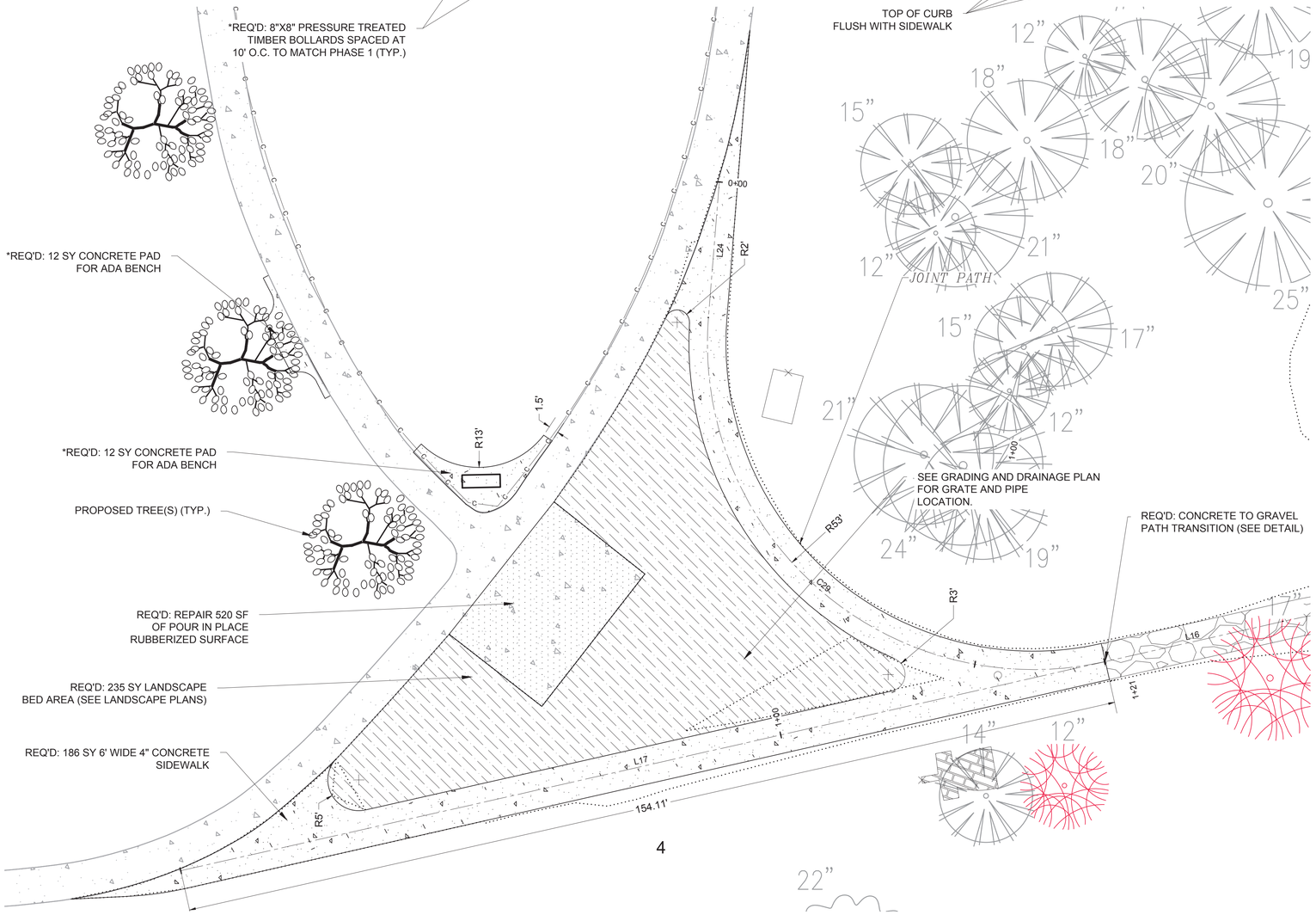
11.02.2022

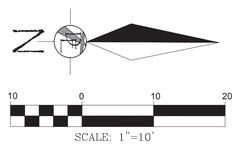
C5.0

ALIGNMENT DATA, CONTROL POINTS, & CURB CUT DATA









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PR-034-21

3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

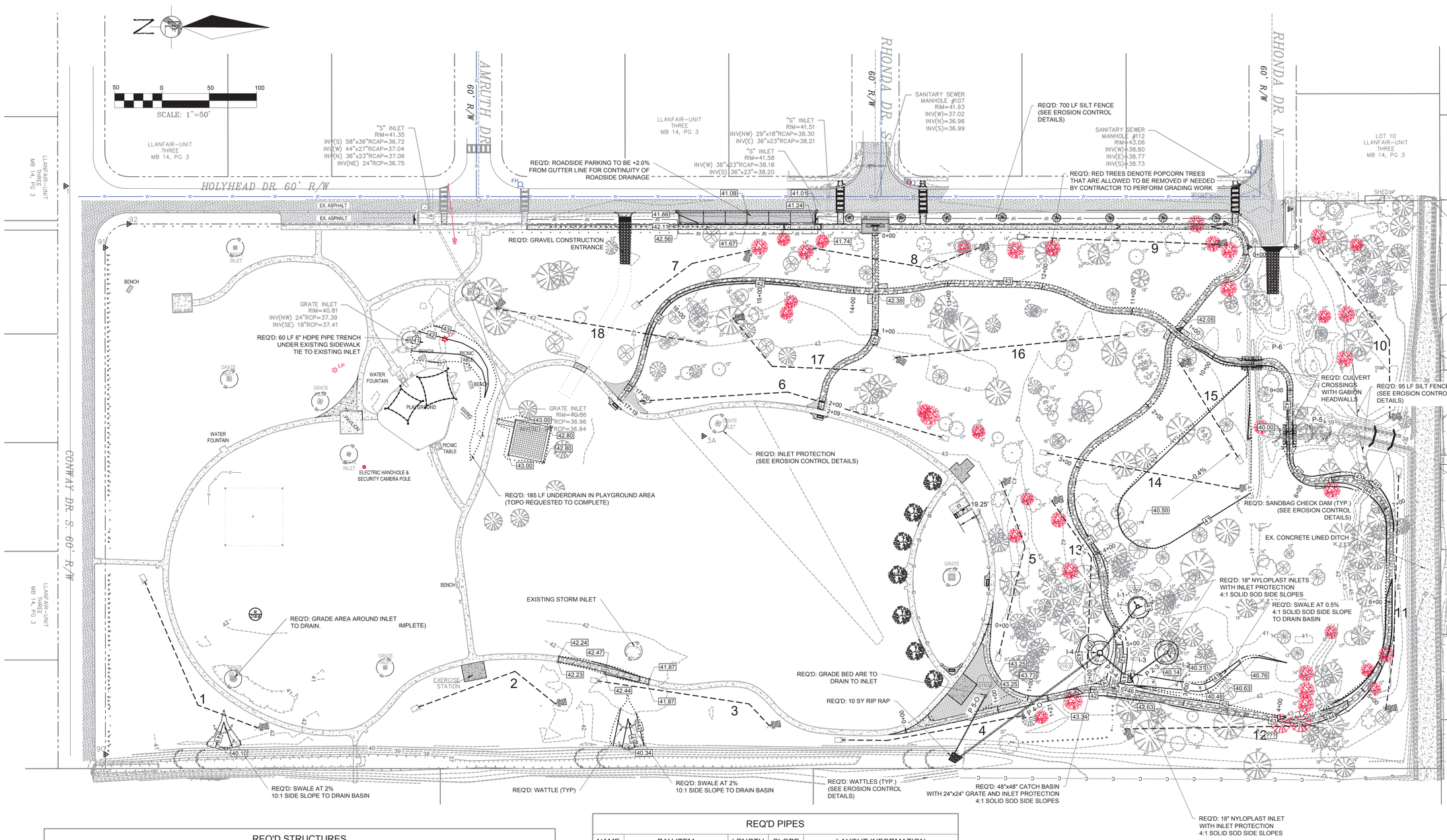
ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER

10/28/2022

11.02.2022

C6.0

SITE PLAN EXTRACTED VIEWS



REQ'D STRUCTURES					
NAME:	DETAILS/PAY ITEM:	PIPES IN:	PIPES OUT	RIM	LAYOUT COORDINATES
I-1	18" NYLOPLAST INLET		PIPE "P 1-4",INV OUT=38.48	40.0	N=248794.3 E=1768492.6
I-2	18" NYLOPLAST INLET		PIPE "P 2-3",INV OUT=38.57	40.0	N=248824.5 E=1768541.3
I-3	18" NYLOPLAST INLET	PIPE "P 2-3", INV IN =38.33	PIPE "P 3-4",INV OUT=38.38	40.0	N=248785.6 E=1768569.5
I-4	48"X48" CATCH BASIN	PIPE "P 3-4", INV IN =38.17 PIPE "P 1-4", INV IN =38.17	PIPE "P 4-O",INV OUT=38.61	41.0	N=248754.3 E=1768541.6
I-5	18" NYLOPLAST INLET		PIPE "P 5-O",INV OUT=40.00	43.3	N=248633.3 E=1768587.1

REQ'D PIPES				
NAME	PAY ITEM	LENGTH	SLOPE	LAYOUT INFORMATION
P-5	30" RCP	14'	0.50%	START INV =39.04 (N 248947.98, E 1768308.58) END INV =38.96 (N 248961.98, E 1768308.37)
P-6	18" RCP	14'	0.50%	START INV =40.02 (N 248915.72, E 1768228.12) END INV =39.95 (N 248915.83, E 1768242.12)
P 1-4	8 INCH N12 HDPE	63'	0.50%	START INV =38.48 (N 248794.28, E 1768492.59) END INV =38.17 (N 248754.33, E 1768541.65)
P 2-3	8 INCH N12 HDPE	48'	0.50%	START INV =38.57 (N 248824.48, E 1768541.27) END INV =38.33 (N 248785.60, E 1768569.47)
P 3-4	8 INCH N12 HDPE	42'	0.50%	START INV =38.38 (N 248785.60, E 1768569.47) END INV =38.17 (N 248754.33, E 1768541.65)
P 4-O	12 INCH N12 HDPE	184'	0.50%	START INV =38.61 (N 248754.33, E 1768541.65) END INV =37.69 (N 248607.03, E 1768651.11)
P 5-O	8 INCH N12 HDPE	69'	1.45%	START INV =40.00 (N 248633.33, E 1768587.08) END INV =39.00 (N 248600.52, E 1768647.68)

NOTE:
-REFER TO SHEET C5.0 FOR CONTROL POINT, CURB CUT, AND ALIGNMENT DATA.
-ALL EXIST. & PROPOSED INLETS IN AREAS BEING DISTURBED WILL REQUIRE INLET PROTECTION BMP'S.
-SEE SHEET C2.0 FOR LEGEND

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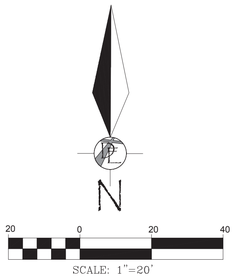
HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

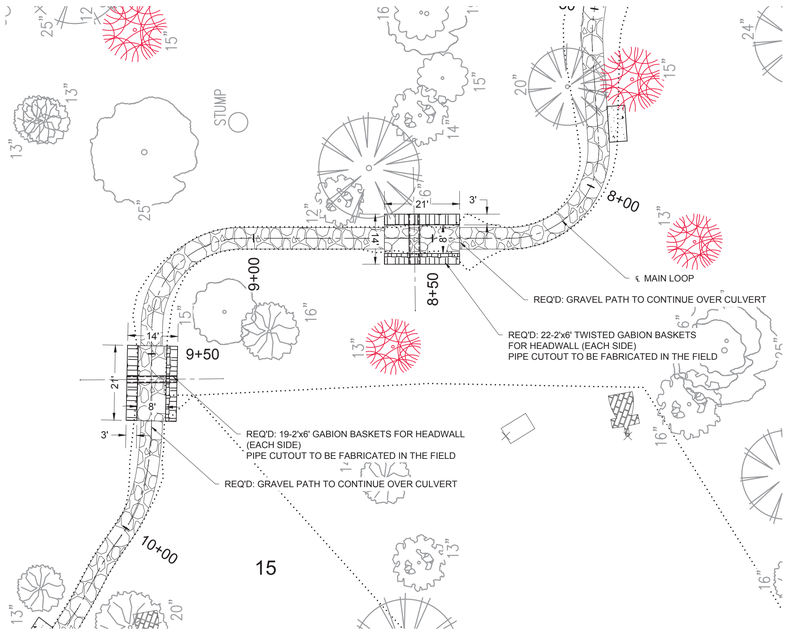
ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER
10/28/2022

11.02.2022

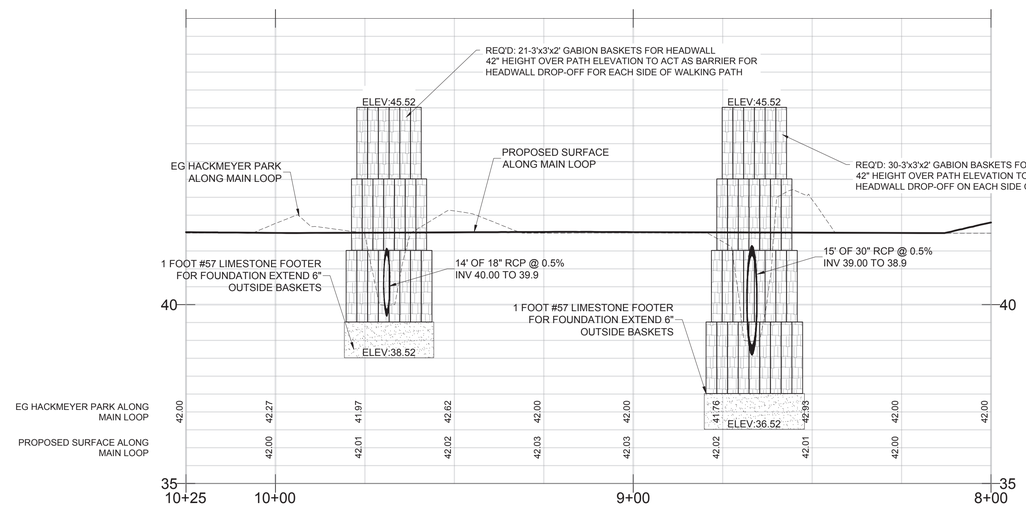
C7.0

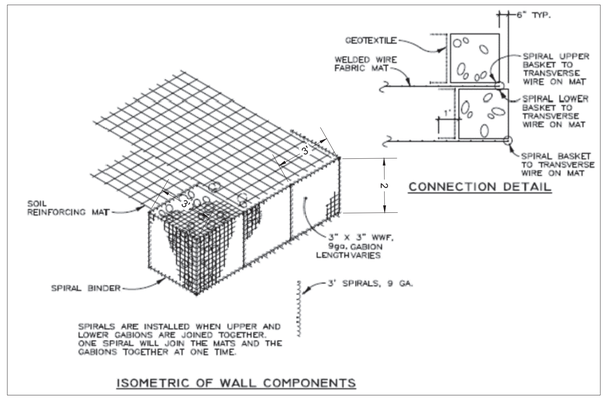
GRADING & DRAINAGE & ERC

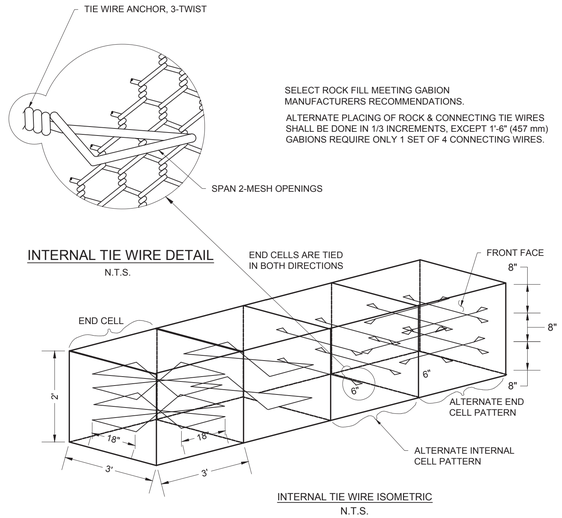


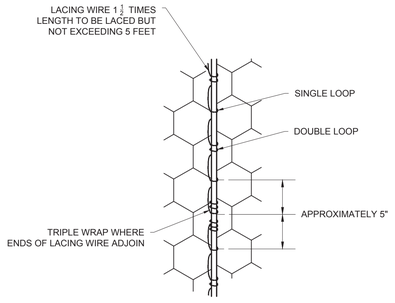


MAIN LOOP PROFILE





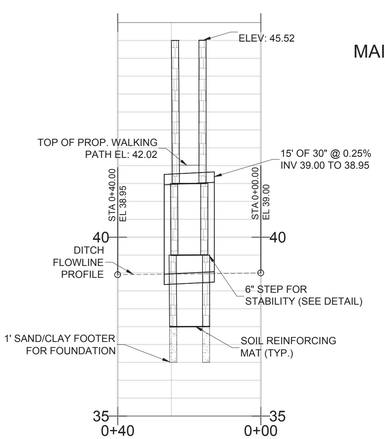




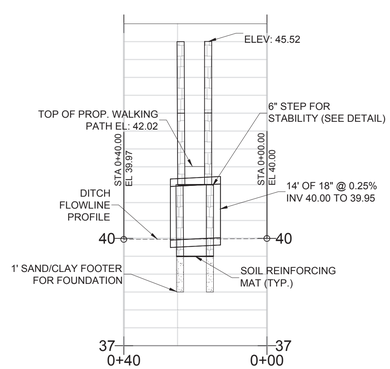
NOTES:

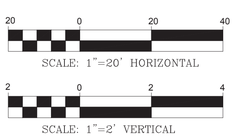
1. INTERNAL GABIONS SHALL HAVE ONE SET OF INTERNAL TIE WIRES PLACED AT MID-HEIGHT OF THE GABIONS.

MAIN LOOP STA. 8+55 GABIONS PROFILE PROFILE



MAIN LOOP STA. 9+57 GABIONS PROFILE PROFILE





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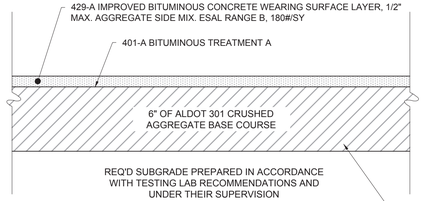
HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 22192 PROFESSIONAL ENGINEER ANTHONY L. FOSTER
10/28/2022

11.02.2022

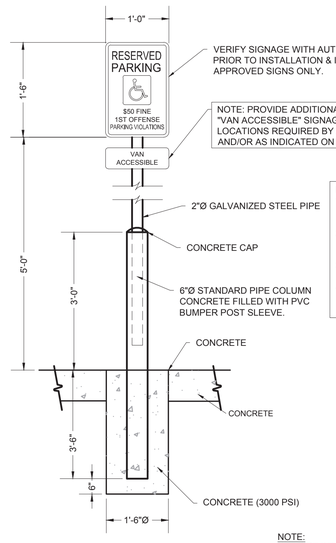
C8.0

GABION HEADWALL DETAIL



MEDIUM DUTY BUILD-UP FOR ASPHALT PARKING

A / C4.0 NOT TO SCALE

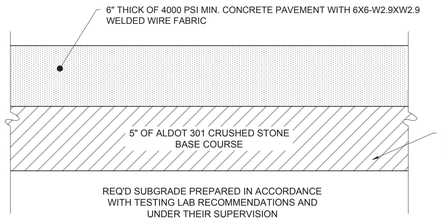


NOTES:
1. ALL SIGNS SHOWN SHALL CONFORM TO THE MOST CURRENT MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL SIGNS SHOWN SHALL BE REFLECTORIZED TO SHOW THE SAME COLOR BY NIGHT AS BY DAY.
3. ALL SIGNS SHALL BE SECURELY MOUNTED ON GALVANIZED STEEL POSTS.
4. INSTALL QUANTITY AND AT LOCATIONS REQ'D BY CODE AND/OR AS INDICATED ON DRAWINGS. CONFIRM ALL HANDICAPPED SIGNAGE CODES.

HANDICAP PARKING SIGN

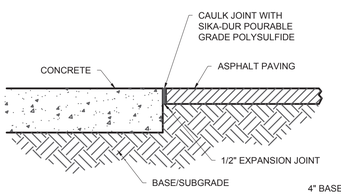
B / C4.0 NOT TO SCALE

NOTE:
SET PIPE INTO CONCRETE FOOTER AS SHOWN. POUR CONCRETE SIDEWALK TO PIPE.



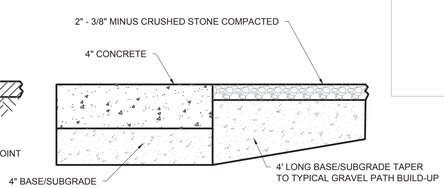
TYP. HEAVY DUTY CONCRETE BUILDUP

C / C4.0 NOT TO SCALE



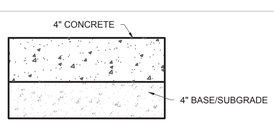
TYP. CONCRETE TO ASPHALT CONNECTION

E / C4.0 NOT TO SCALE



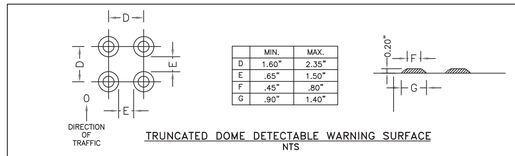
TYP. CONCRETE TO GRAVEL SECTION TRANSITION

F / C4.0 NOT TO SCALE



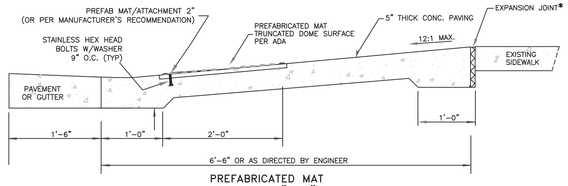
TYP. STANDARD DUTY CONCRETE BUILD-UP

D / C4.0 NOT TO SCALE

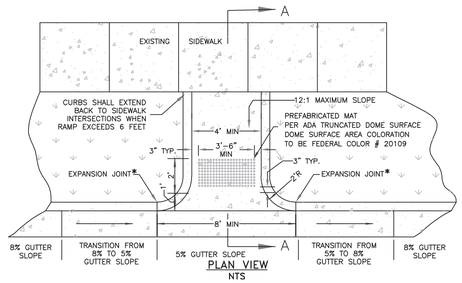


	MIN.	MAX.
D	1.60"	2.35"
E	.65"	1.50"
F	.45"	.80"
G	.90"	1.40"

TRUNCATED DOME DETECTABLE WARNING SURFACE
NTS



PREFABRICATED MAT
SECTION "A-A"
NTS

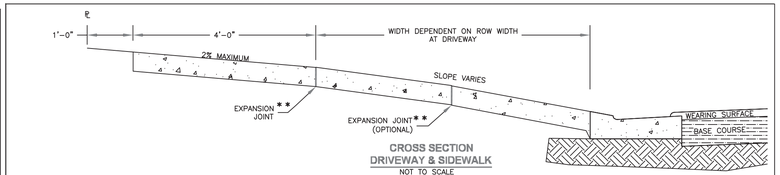


PLAN VIEW
NTS

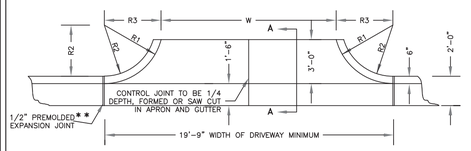
*EXPANSION JOINT MATERIAL TO MEET ALDOT SPECIFICATIONS 832.01 & 832.02

CITY OF MOBILE, ALABAMA
ENGINEERING DEPARTMENT
HANDICAP CURB RAMP AREAS WITH GRASS STRIP

STANDARD DRAWING 7	SHEET 1 OF 2	11-19-2009



CROSS SECTION
DRIVEWAY & SIDEWALK
NOT TO SCALE

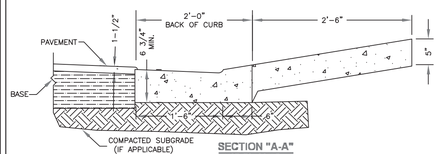


PLAN VIEW
CONCRETE DRIVEWAY APRON
NOT TO SCALE

	MINIMUM*	TYPE
R1	20'	COMMERCIAL
R2	19.5'	COMMERCIAL
R3	20'	COMMERCIAL
R1	4'	RESIDENTIAL
R2	3.5'	RESIDENTIAL
R3	3'-10.5"	RESIDENTIAL
W	24'	COMMERCIAL
W	12'	RESIDENTIAL

* IF SITE CONDITIONS PROHIBIT THE USE OF THESE STANDARDS, AN ALTERNATIVE MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEERING DEPT.

** EXPANSION JOINT MATERIAL TO MEET ALDOT SPECIFICATIONS 832.01 & 832.02



SECTION "A-A"
NOT TO SCALE

NOTE:
CONCRETE APRON AND DRIVEWAY TO BE 5" MINIMUM THICKNESS.

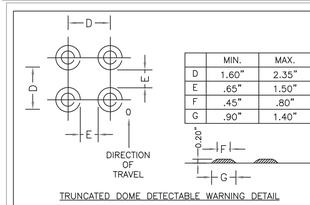
SIDEWALK PANELS THAT ABUT THE DRIVEWAY TO BE 5" MINIMUM THICKNESS.

OTHER SIDEWALK PANELS TO BE 4" MIN. THICKNESS.

ALL CONCRETE TO BE 3000 P.S.I. MIX WITH NATURAL COLOR AND BROOM FINISH.

CITY OF MOBILE, ALABAMA
ENGINEERING DEPARTMENT
CONCRETE DRIVEWAY & SIDEWALK DETAILS FOR ASPHALT ROADWAY W/CURB & GUTTER

STANDARD DRAWING 1	SHEET 1 OF 2	05-05-2015



	MIN.	MAX.
D	1.60"	2.35"
E	.65"	1.50"
F	.45"	.80"
G	.90"	1.40"

TRUNCATED DOME DETECTABLE WARNING DETAIL

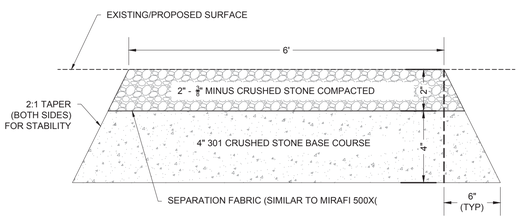
1. EXPANSION JOINT IS TO BE PLACED WHERE THE NEW RAMP OR SIDEWALK JOINS EXISTING PAVEMENT STRUCTURES.
2. EXPANSION JOINT MATERIAL TO BE IN ACCORDANCE WITH ARTICLE 832.01 AND 832.02 OF ALDOT SPECIFICATIONS.
3. RAMPS SHALL HAVE A NON-SKID SURFACE BY BRUSHING TRANSVERSELY.
4. SIDEWALK TO BE 4" MINIMUM THICKNESS. RAMP TO BE 5" MINIMUM THICKNESS.
5. WHERE SIDEWALKS ARE REQUIRED, THIS PLAN SHALL BE USED AT PEDESTRIAN CROSSWALKS FOR SAFE AND CONVENIENT MOVEMENT OF THE HANDICAPPED AND PERSONS USING WHEELCHAIRS.
6. TRUNCATED DOMES MEETING THE SIZE AND SPACING SHOWN SHALL BE CONSTRUCTED 2' WIDE FOR THE WIDTH OF THE RAMP. TRUNCATED DOMES TO BE INLAID REFABRICATED MATS ATTACHED BY EPOXY ADHESIVE AND MECHANICAL ATTACHMENT. THE 2' STRIP SHALL BE A PIGMENT OF APPROXIMATELY FEDERAL COLOR 20109. PIGMENT FOR PREFABRICATED PRODUCTS SHALL BE INTEGRAL TO THE MATERIAL.
7. ANY RETROFIT APPLICATION MUST HAVE BEVELED EDGES ON SIDES WITH APPROACHING PEDESTRIAN TRAFFIC.
8. DOMES SHALL BE PARALLEL TO THE RAMP SO THAT THE WHEELCHAIR WHEELS CAN TRAVEL BETWEEN THE DOMES.
9. RETROFIT APPLICATION PLACED ON TOP OF EXISTING RAMP WITH DRILLED AND EPOXIED BOLTS. EPOXY FULL SURFACE AREA PER MANUFACTURER'S RECOMMENDATIONS.

TYPICAL HANDICAP/CURB RAMP
(AREAS WITH GRASS STRIP)

NOTE: CONCRETE RAMP TO BE 5" MIN. THICKNESS. OTHER SIDEWALK PANELS TO BE 4" MIN. THICKNESS. ALL CONCRETE TO BE 3000 LB. MIX WITH NATURAL COLOR AND BROOM FINISH EXCEPT IN AREAS WHERE TRUNCATED DOME SURFACE IS REQUIRED. DOME SURFACE AREA COLORATION TO BE FEDERAL COLOR # 20109

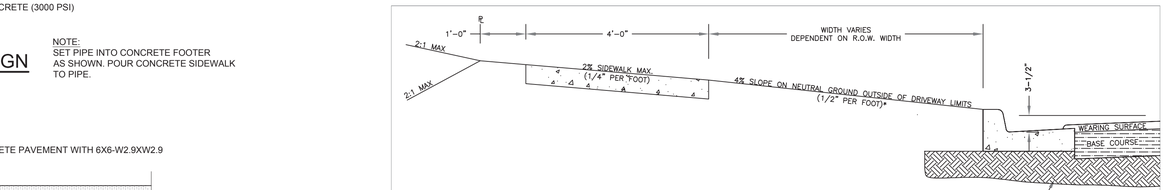
CITY OF MOBILE, ALABAMA
ENGINEERING DEPARTMENT
TYPICAL HANDICAP CURB RAMP AREAS W/GRASS STRIP ISOMETRIC VIEW

STANDARD DRAWING 7	SHEET 2 OF 2	11-19-09



GRAVEL WALKWAY SECTION

G / C4.0 NOT TO SCALE



CURB & GUTTER DETAIL
NOT TO SCALE

NOTES:
SIDEWALK PANELS THAT ABUT THE DRIVEWAY TO BE 5" MINIMUM THICKNESS.

OTHER SIDEWALK PANELS TO BE 4" MIN. THICKNESS.

ALL CONCRETE TO BE 3000 P.S.I. MIX WITH NATURAL COLOR AND BROOM FINISH.

IF SITE CONDITIONS PROHIBIT THE USE OF THESE STANDARDS, AN ALTERNATIVE MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEERING DEPT.

CROSS SECTION NEUTRAL GROUND
NOT TO SCALE

CITY OF MOBILE, ALABAMA
ENGINEERING DEPARTMENT
NEUTRAL GROUND, C & G, SIDEWALK DETAILS FOR ASPHALT ROADWAY W/ C & G

STANDARD DRAWING 4	SHEET 1 OF 1	05-05-15

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

Driven Engineering, Inc.
8005 Morris Hill Road
Semmes, AL 36575
(251) 649-4011 office
(251) 645-0971 fax
www.drivenengineering.com

DRIVEN ENGINEERING PROJECT NO. 21078

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

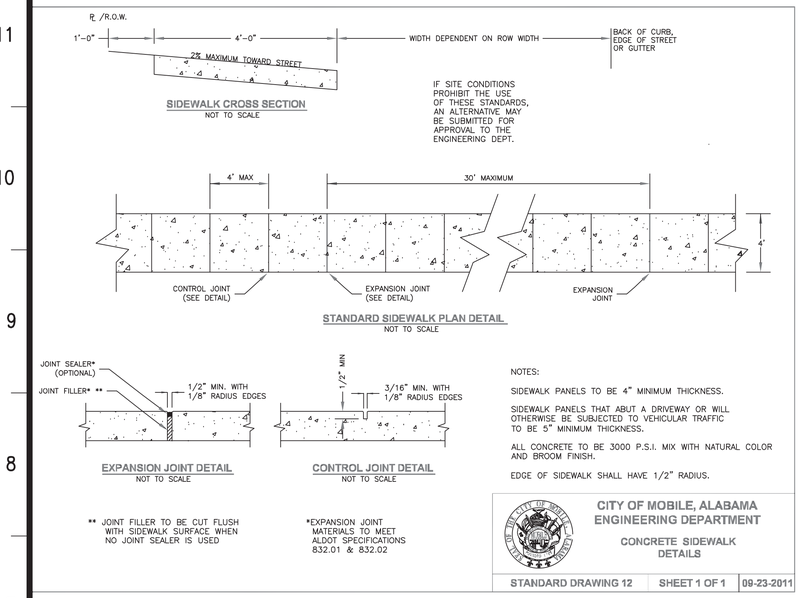
HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

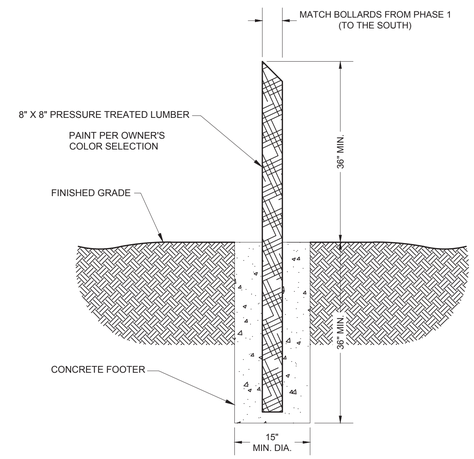
ALABAMA LICENSED 22192 PROFESSIONAL ENGINEER
10/28/2022

11.02.2022

C9.0

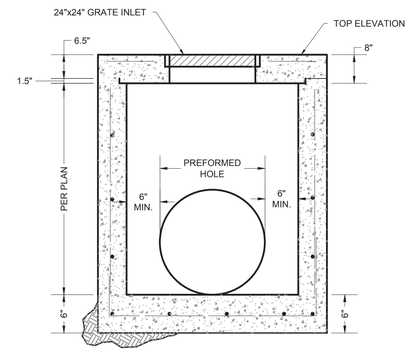
CONSTRUCTION DETAILS 1



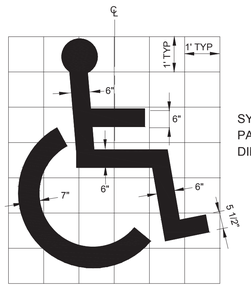


1. BOLLARDS SHALL BE SPACED NOT MORE THAN 10' O.C.
2. BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT

K C4.0 TIMBER BOLLARD
NOT TO SCALE



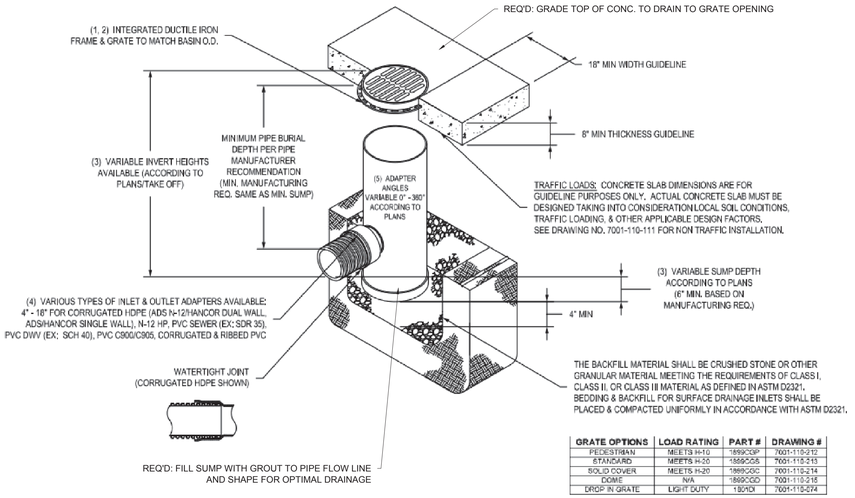
J C7.0 CATCH BASIN DETAIL
NOT TO SCALE



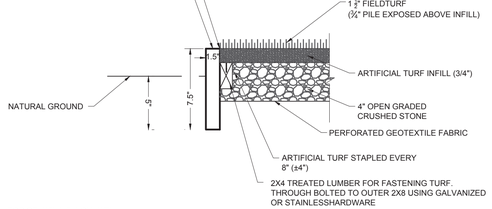
SYMBOL SHALL BE PAINTED BLUE DIMENSIONS SHOWN

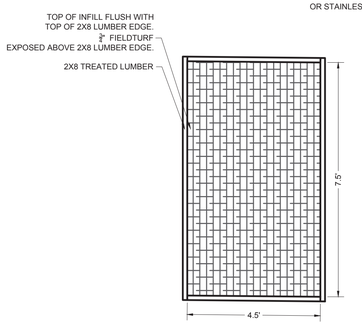
H C4.0 HANDICAP SYMBOL DETAIL
NOT TO SCALE

I C7.0 18" NYLOPLAST INLET DETAIL
NOT TO SCALE

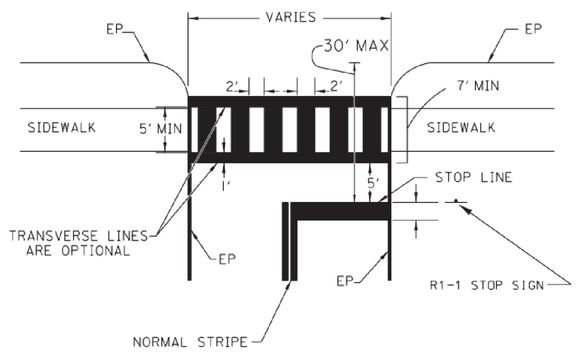


GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	*899CGP	7001-110-212
STANDARD	MEETS H-20	*899CGS	7001-110-213
SOLID COVER	MEETS H-20	*899CGC	7001-110-214
DOME	N/A	*899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	18"DI	7001-110-074





DISC GOLF TEE BOX DETAIL
NOT TO SCALE



TYPICAL CROSSWALK LAYOUTS AND DETAILS
ALDOT SPECIAL DRAWING NO. CW-703
L C4.0 NOT TO SCALE

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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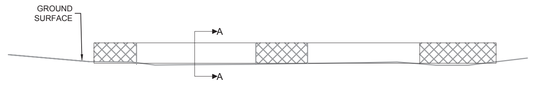
HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH MOBILE, ALABAMA 36608

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER AMANDA L.S. FISHER
10/28/2022

11.02.2022

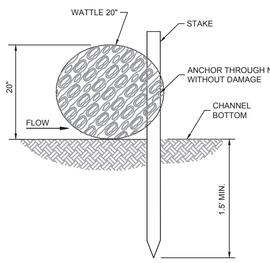
C10.0

CONSTRUCTION DETAILS 2



WATTLE ELEVATION DETAIL FLAT SECTION

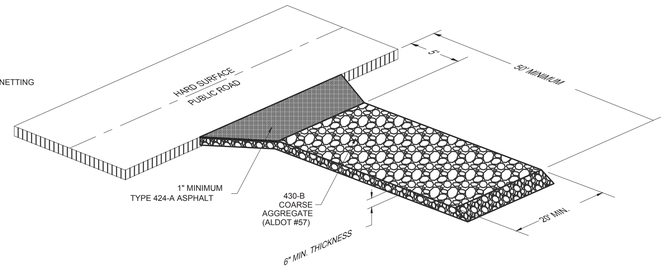
NOT TO SCALE



WATTLE SECTION A-A

NOT TO SCALE

NOTE: CONSTRUCTION & MAINTENANCE OF TEMPORARY GRAVEL CONSTRUCTION ENTRANCE WILL BE A SUBSIDIARY OBLIGATION OF THE PROJECT WITH NO DIRECT PAY.

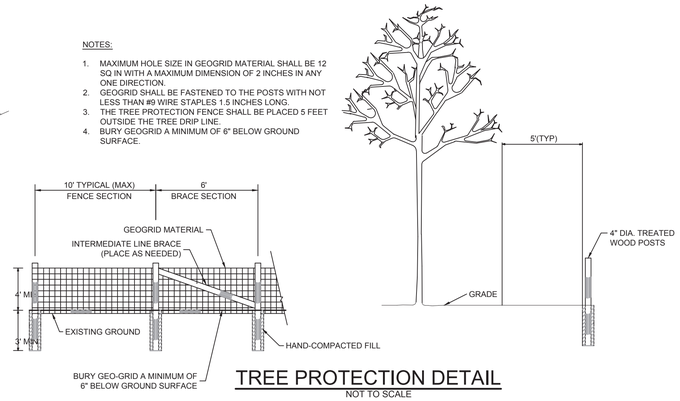


TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

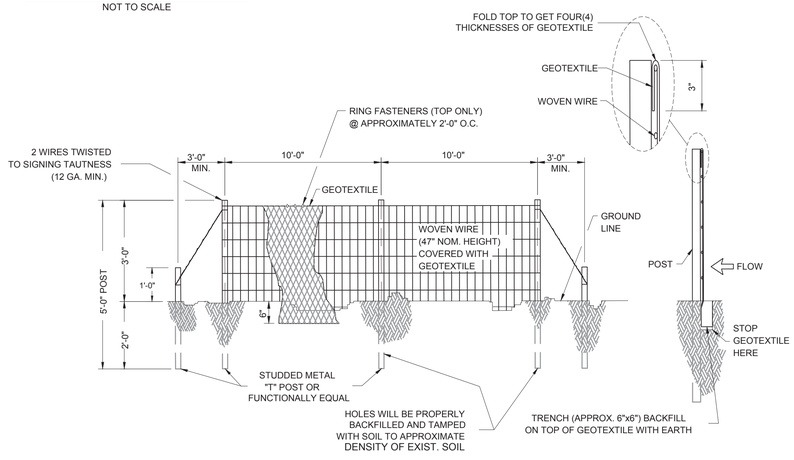
NOTES:

1. MAXIMUM HOLE SIZE IN GEOGRID MATERIAL SHALL BE 12 SQ IN WITH A MAXIMUM DIMENSION OF 2 INCHES IN ANY ONE DIRECTION.
2. GEOGRID SHALL BE FASTENED TO THE POSTS WITH NOT LESS THAN #9 WIRE STAPLES 1.5 INCHES LONG.
3. THE TREE PROTECTION FENCE SHALL BE PLACED 5 FEET OUTSIDE THE TREE DRIP LINE.
4. BURY GEOGRID A MINIMUM OF 6" BELOW GROUND SURFACE.



TREE PROTECTION DETAIL

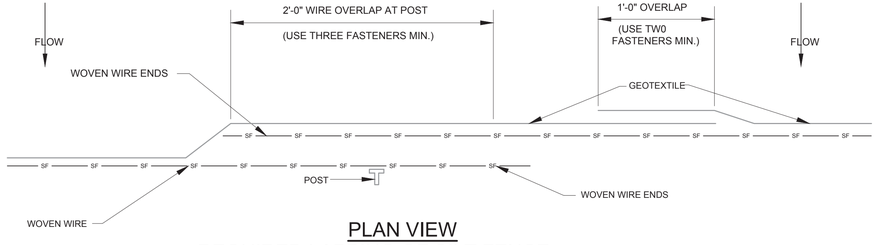
NOT TO SCALE



SILT FENCE TYPE A DETAIL (TYPICAL)

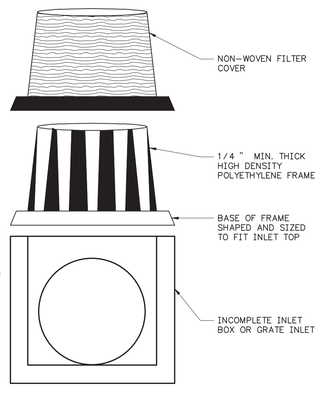
NOT TO SCALE

SECTION



PLAN VIEW
REQUIRED LAPPING OF SILT FENCE

NOT TO SCALE



TYPICAL CONSTRUCTION SEQUENCE FOR SILT-SAVER FRAME & FILTER

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

INLET SEDIMENT BARRIER DETAIL

NOT TO SCALE

GENERAL NOTES

1.) EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.

2.) TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.

3.) SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.

4.) SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.

5.) AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.

6.) STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT ENTRY WITH SEDIMENT BARRIERS LIKE "SILT SAVER" (R) UNTIL THE SITE IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS IS OBTAINED.

7.) CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 13 DAYS OR LONGER.

8.) THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.

9.) GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.

10.) THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.

11.) SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
A.) ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.
B.) EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
C.) EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
D.) AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
E.) SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.

12.) UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOI) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOI PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.

13.) THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.

SOD INSTALLATION NOTES

1.) SOD SHALL BE STORED IN THE SHADE DURING INSTALLATION.

2.) THE TOPSOIL SHALL BE RAKED TO REMOVE ANY CRUST LIKE SOIL BEFORE LAYING SOD. WHEN TEMPERATURES ARE HIGH, LIGHTLY IRRIGATE THE SOIL, IMMEDIATELY BEFORE LAYING THE SOD.

3.) SOD SHALL NOT BE PLACED ON GRAVEL, FROZEN SOILS, OR SOILS THAT HAVE BEEN RECENTLY STERILIZED OR TREATED WITH HERBICIDES.

4.) LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. THE ROWS SHOULD BE IN A BRICK-LIKE PATTERN (SEE FIGURE SOD - 2 OF THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS). THE LONGEST DIMENSION OF THE SOD SHALL BE PERPENDICULAR TO ANY SLOPE.

5.) USE A KNIFE OR SHARP SPADE TO TRIM AND FIT IRREGULARLY SHAPED AREAS.

6.) ON SLOPES 3:1 OR GREATER, IN GRASS SWALES OR WHEREVER EROSION MAY BE A PROBLEM, SECURE SOD WITH PEGS OR STAPLES.

7.) USE A WEIGHTED ROLLER ON THE SOD TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.

8.) ONCE THE SOD HAS BEEN ROLLED, IRRIGATE UNTIL THE SOIL IS MOIST 6" BELOW THE BOTTOM OF THE SOIL.

9.) ALL SODDEN AREAS SHALL BE MOIST TO A MINIMUM DEPTH OF 4" UNTIL THE GRASS TAKES ROOT.

10.) MOWING SHALL NOT BE PERMITTED UNTIL SOD IS FIRMLY ROOTED.

FOR SANDBAG CHECK DAM INSTALLATION, REFER TO THE 2018 ALDOT SPECIAL DRAWING(S), DWG 1162-B (ESC-300-3) DETAILS OF SANDBAG DITCH CHECK.

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(251) 645-0971 fax
www.drivenengineering.com

DRIVEN ENGINEERING PROJECT NO. 21078

PLANS NOT VALID UNLESS THEY BEAR A COLOR SIGNATURE OR AN EMBOSSED SEAL. PLANS ARE NOT ISSUED FOR CONSTRUCTION UNLESS THE REVISION IS A NUMERAL.

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HACKMEYER PARK - IMPROVEMENTS PHASE 2
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3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 21282 PROFESSIONAL ENGINEERING
10/28/2022

11.02.2022

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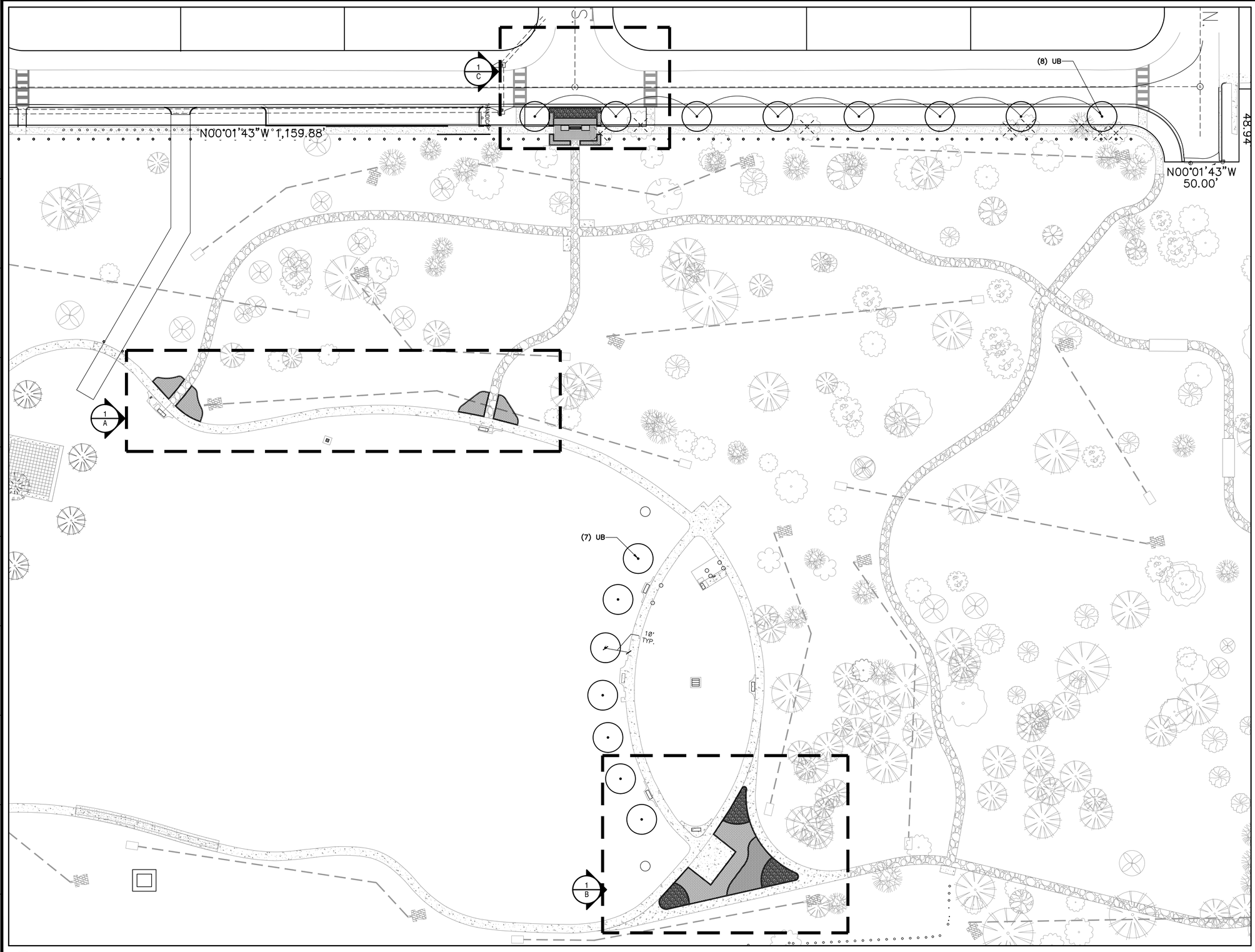
EROSION CONTROL DETAILS



LANDSCAPE PLANTING PLAN
Scale: 1" = 30'

NORTH

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PR-034-21

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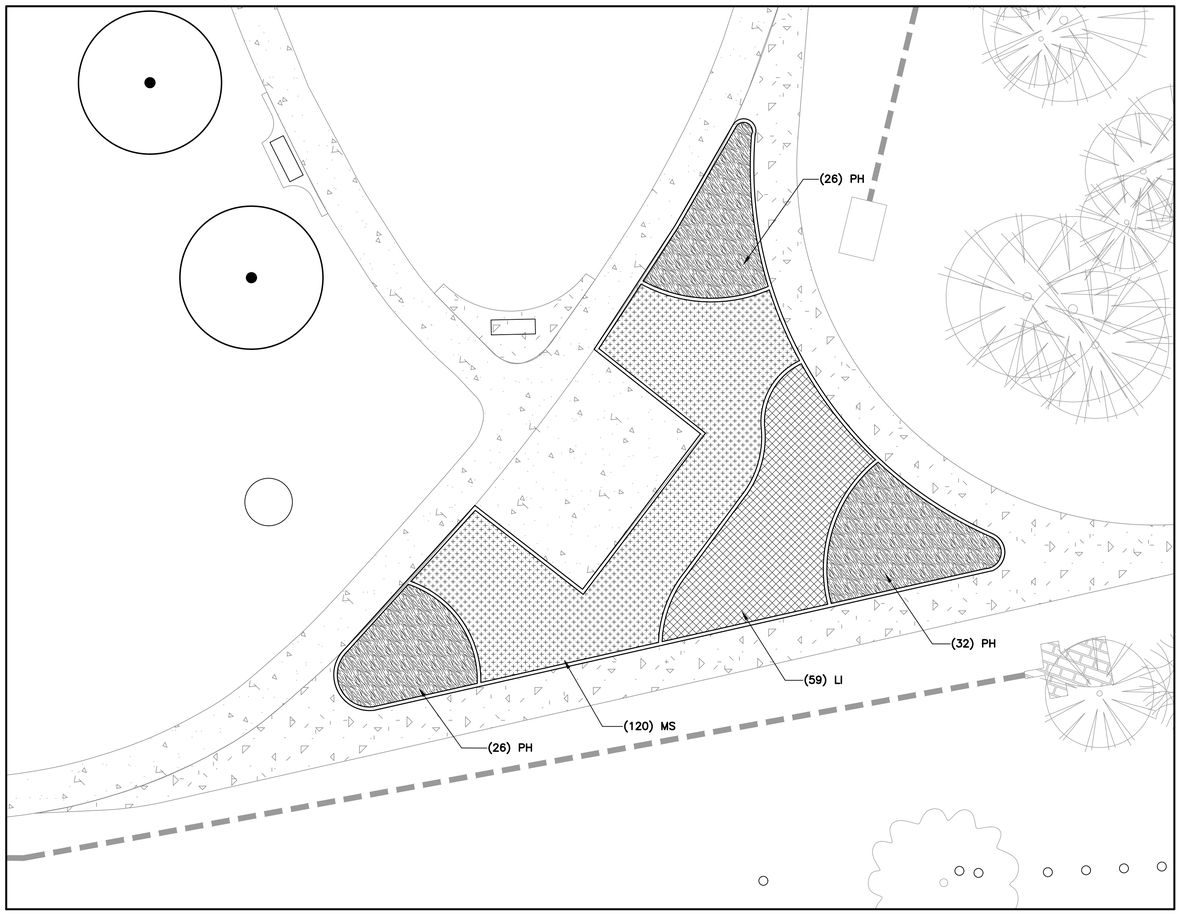
STATE OF ALABAMA
JAMES ELLIS CROW
6
REGISTERED LANDSCAPE ARCHITECT

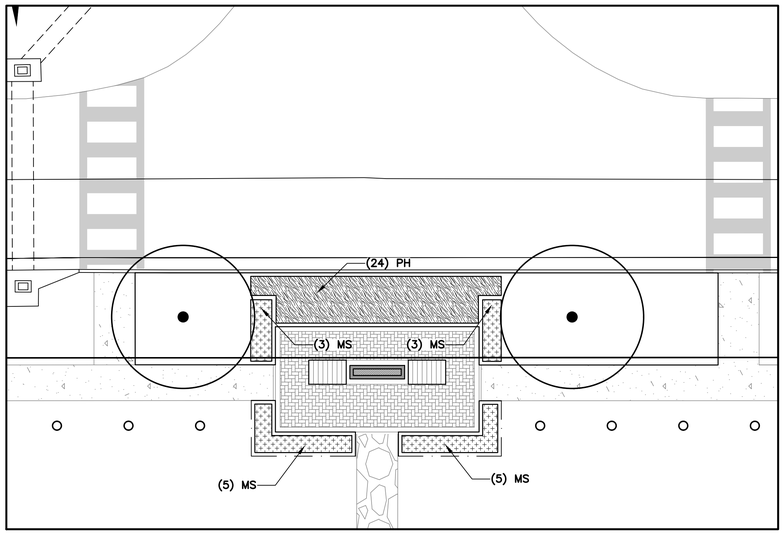
11.02.2022

LP100

LANDSCAPE PLANTING PLAN



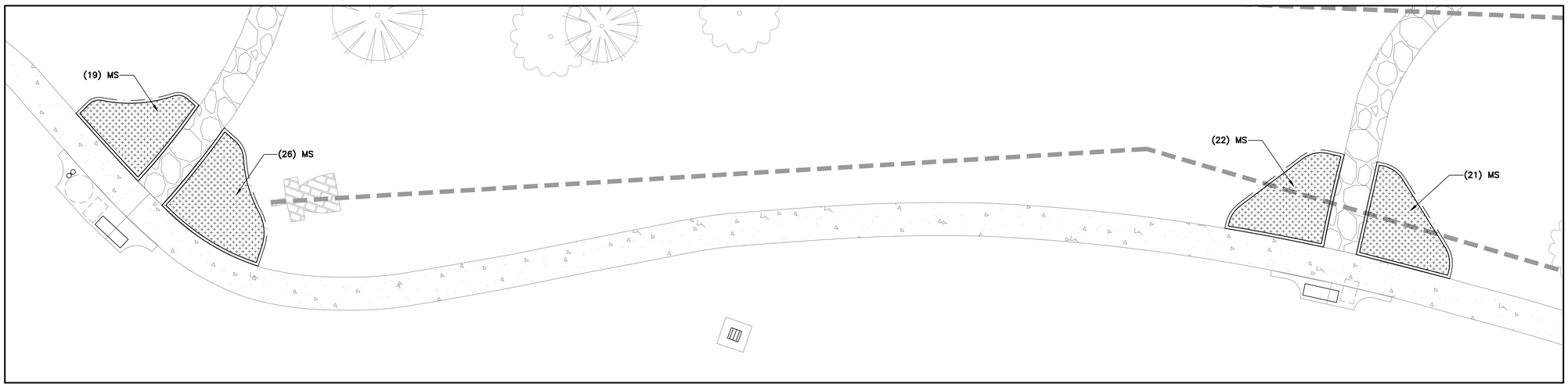
1-B LANDSCAPE PLANTING PLAN ENLARGEMENT 3
Scale: 1"=10'_XREF



1-C LANDSCAPE PLANTING PLAN ENLARGEMENT 1
Scale: 1"=10'_XREF

NOTES

ALL SHRUB AREAS TO RECEIVE HYDRO GEL CRYSTALS INTO PLANTING SOILS, PER MANUFACTURERS RECOMMENDATIONS.



1-A LANDSCAPE PLANTING PLAN ENLARGEMENT 2
Scale: 1"=10'_XREF

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STATE OF ALABAMA
JAMES ELLIS CROW
NUMBER 6
REGISTERED LANDSCAPE ARCHITECT

11.02.2022

LP200

LANDSCAPE PLAN ENLARGEMENT

GENERAL CONDITIONS

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF LANDSCAPE MATERIAL AT ALL TIMES. LANDSCAPE CONTRACTOR TO COORDINATE SAFE STAGING AREA WITH GENERAL CONTRACTOR AND/OR OWNER.
- CONTRACTOR SHALL MAINTAIN & GUARANTEE ALL TREES AND SHRUBS, FOR 30 CONSECUTIVE CALENDAR DAYS FROM DATE SUBSTANTIAL COMPLETION OF THE WORK, AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT.
- ALL AREAS IMPACTED NEGATIVELY BY CONSTRUCTION PROCESSES SHALL BE RETURNED TO ORIGINAL CONDITION OR BETTER PRIOR TO SUBSTANTIAL COMPLETION.

LANDSCAPE AREA SOIL PREPARATION

- SOIL SHALL BE AMENDED BY THE ADDITION OF COMPOST AND FERTILIZER. COMPOST TYPE SHALL BE MUSHROOM COMPOST OR DECOMPOSED PINE BARK, AND SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE. COMPOST SHALL BE UNIFORMLY APPLIED OVER PLANTING BEDS AT AN AVERAGE DEPTH OF 2 INCHES AND OVER SOD AREAS AT AN AVERAGE DEPTH OF 3/4 INCH.
- INCORPORATE COMPOST UNIFORMLY IN PLANTING BEDS TO A DEPTH OF 6 INCHES AND IN SOD AREAS TO A DEPTH OF 3 INCHES USING A ROTARY TILLER OR OTHER APPROPRIATE EQUIPMENT. PRE-PLANT FERTILIZER AND PH ADJUSTING AGENTS (E.G., LIME AND SULFUR) MAY BE APPLIED IN CONJUNCTION WITH COMPOST INCORPORATION, AS NECESSARY.
- RAKE SOIL SURFACE SMOOTH PRIOR TO PLANTING.
- REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
- WATER THOROUGHLY AFTER PLANTING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANTING BEDS. ANY OTHER PROPOSED DRAINAGE METHODS SHALL BE COORDINATED WITH PLANTING EFFORTS TO MINIMIZE CONFLICTS AND MAINTAIN PROPER FUNCTION OF DRAINAGE SYSTEMS.

PLANT MATERIAL AND PLANTING

- PLANT QUANTITIES ARE OFFERED AS A CONVENIENCE TO THE CONTRACTOR, AND ARE NOT ABSOLUTE. CONTRACTOR SHALL VERIFY PLANT COUNT FROM PLAN AND REPORT DIFFERENCES.
- ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE OWNER OR LANDSCAPE ARCHITECT AT THE JOB SITE.
- PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERYMEN, INC.
- UNLESS NOTED SPECIFICALLY, ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN.
- FRONT ROW OF SHRUBS SHALL BE PLANTED FROM CENTER OF PLANT A MINIMUM OF 24" BEHIND BED LINE @ LAWNS OR WALKS AND A MINIMUM OF 36" BACK OF CURB @ PARKING SPACES.
- NO PRUNING SHOULD BE PERFORMED DURING FIRST GROWING SEASON EXCEPT FOR REMOVING DAMAGED OF DEAD GROWTH. WOUND PAINT IS NOT RECOMMENDED FOR ANY CUTS.
- ALL PLANTING AREAS, TREE PITS, AND OTHER AREAS INDICATED ON PLANS SHALL BE MULCHED WITH A SETTLED LAYER OF THE INDICATED MULCH:
  - ☐ 3" DEPTH PINE BARK
  - ☐ 4" DEPTH SHREDDED HARDWOOD MULCH
  - ☒ 3" DEPTH LONGLEAF PINESTRAW, SETTLED
- TRENCH EDGE TO BE LOCATED BETWEEN ALL PLANTING AREAS AND LAWN, UNLESS NOTED OTHERWISE.
- TREE STAKING SHALL BE PROVIDED TO KEEP TREES PLUMB AND PROTECTED FROM EXCESSIVE WINDS.

04 GENERAL PLANTING NOTES

1" = 1" DETAIL-FILE

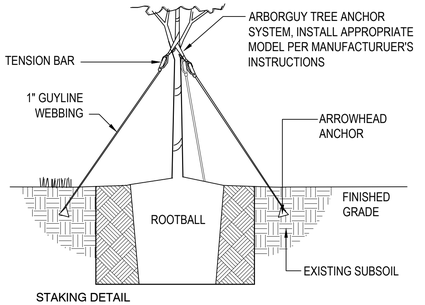
PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT
•	UB	15	ULMUS PARVIFOLIA 'UPMTF' TM / BOSQUE LACEBARK ELM MATCHED SPECIMEN	65 GAL	3.5"CAL	12 - 14` H

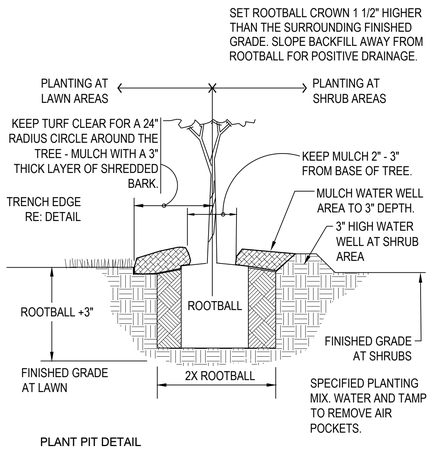
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	HT	W	SPACING
▨	LI	59	LOMANDRA LONGIFOLIA 'BREEZE' TM / BREEZE MAT RUSH	3 GAL			36" o.c.
▨	MS	248	MISCANTHUS SINENSIS 'ADAGIO' / ADAGIO EULALIA GRASS	3 GAL			36" o.c.
▨	PH	84	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN FOUNTAIN GRASS	3 GAL			36" o.c.

NOTE

SOD: CERTIFIED TURFGRASS SOD COMPLYING WITH ASPA SPECIFICATIONS FOR MACHINE-CUT THICKNESS, SIZE, STRENGTH, MOISTURE CONTENT, AND MOWED HEIGHT, AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE OF THE LISTED TURFGRASS SPECIES, STRONGLY ROOTED AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED. REFER TO CIVIL DRAWINGS



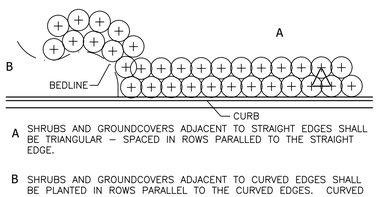
STAKING DETAIL



PLANT PIT DETAIL

1 TREE PLANTING - GUY STRAP

1" = 1'-0" 329343.26-02

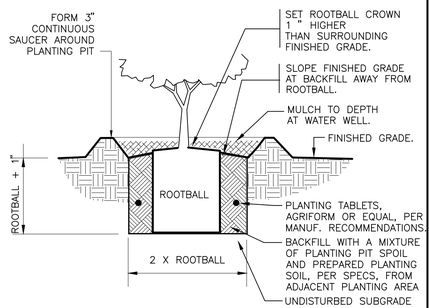


A SHRUBS AND GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULAR – SPACED IN ROWS PARALLED TO THE STRAIGHT EDGE.

B SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGES. CURVED EDGES TO BE VERY SMOOTH RADII.

2 TYPICAL PLANT SPACING

NOT TO SCALE 329399-04



3 SHRUB PLANTING

1" = 1'-Ø" 329333.13-Ø1

TREEGATOR® ORIGINAL

SLOW RELEASE WATERING BAG FOR SHADE TREES

BENEFITS:

- *Ideal for newly planted shade or street trees.*
- *Reduces transplant and drought shock.*
- *100% water absorption with no run-off.*
- *Install and fill in minutes with no tools required.*
- *Deep water saturation with every fill.*
- *Fill just 1 to 2 times per week, or as needed.***
- *Promotes deep root growth.*
- *Non-invasive design will not harm existing landscape.*
- *Can be used with nutrient / chemical additives.***
- *Zip multiple bags together to accomodate large trees.*
- *Made in the U.S.A. with a 5-year limited warranty.*

***REFER TO WATERING CAPACITY / FREQUENCY CHART SHOWN BELOW*

DESCRIPTION:

If you plant shade trees, you need a Treegator® Original Slow Release Watering Bag! Golf courses, parks, cities, nurseries, landscapers, DOT's, resorts and homeowners all love its simple, affordable patented tree watering technology. Makes anyone a watering professional. Perfect for newly planted or established trees up to 8" in caliper, with branches beginning at least 25 inches from the ground or higher. Save time, water, effort and trees!

SPECS:

Single bag fits min. 1 inch to max. 4 inch caliper tree with branches at least 25" from the ground or higher.
Use a Double Bag setup (2 single bags zipped together back-to-back) to water 4 inch to 8 inch caliper trees.
Made of green polyethylene with scrim reinforcement, black polypro straps and nylon zippers.
2 water release points per bag.
Bag is empty in approximately 5 to 9 hours.
UV stabilized to withstand exposure to sunlight.
Fill opening fits up to 3" diameter hose.

DIRECTIONS FOR USE:

Place around tree trunk, with the zippers on uphill side of tree.
Wrap both sides around trunk until zippers meet and zip together from bottom to top.
Lift tag to expose fill opening at top of bag.
Insert hose into fill opening and begin filling with water.
Fill bag to 1/4 capacity.
Gently lift up on straps at top of bag to expand bottom.
Fill to desired level and let empty.
Continuously waters for approximately 5 to 9 hours.

MEASUREMENTS:

Full - 30" tall x 18" wide (at base)

WATERING CAPACITY / FREQUENCY CHART:

Treegator® Original Bag Setup	Trunk Caliper (diameter)	Approx. Water Capacity (per single bag)	Recommended Fills per Week
Single Bag Setup	1 to 2 inch (3 to 5 cm)	15 gallons (56.78 liters)	1 Fill per Week
	2 to 3 inch (5 to 8 cm)	14.75 to 14.25 gallons (55.84 to 53.94 liters)	2 Fills per Week
Double Bag Setup (2 single bags)	0.00 inch (stand-alone†)	25 gallons (94.63 liters)	Varies based on application
	4 to 5 inch (10 to 13 cm)	23.50 gallons (89.95 liters)	1 Fill per Week
	5 to 8 inch (13 to 20 cm)	22.75 to 21.5 gallons (86.11 to 81.38 liters)	2 Fills per Week

**Double Bag setup is two (2) single Treegator® Original bags zipped together back-to-back. †When watering older established trees with fully developed root systems, a Double Bag setup can also be used as a stand-alone watering solution (i.e. not wrapped around a trunk)*

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3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

STATE OF ALABAMA JAMES ELLIS CROW NUMBER 6 REGISTERED LANDSCAPE ARCHITECT

11.02.2022

LP500

LANDSCAPE PLANTING DETAILS

GENERAL NOTES:

DISCLAIMER

1. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
2. AT CONSTRUCTION ISSUE, THESE DRAWING REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK.

BUILDING DESIGN CRITERIA:

A. CODES

2018 INTERNATIONAL BUILDING CODE
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 531)
ASCE 7-16

B. WIND LOADS PER ASCE 7-16 & 2018 IBC
RISK CATEGORY II
ULTIMATE DESIGN WIND SPEED, V_{ult} = 168 MPH ♦
NOMINAL DESIGN WIND SPEED, V_{asd} = 130 MPH *
EXPOSURE CATEGORY = B
MEAN ROOF HEIGHT, h = ±16 FEET
ADJUSTMENT FACTOR FOR HEIGHT AND EXPOSURE, λ = 1.21
TOPOGRAPHIC FACTOR, K_{zt} = 1.00
a = ±3 FEET
ROOF SLOPE, θ = 8/12 = 33.7°

DESIGN WIND LOAD NOTES:

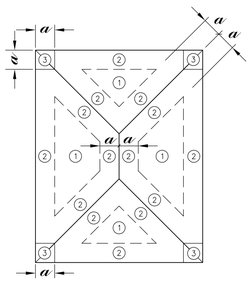
*	REFERENCE SECTION 1609.3.1 AND/OR TABLE 1609.3.1 OF THE 2018 INTERNATIONAL BUILDING CODE FOR CONVERSION OF V_{ult} TO V_{asd}.
**	SHOWN IN THIS TABLE ARE NET DESIGN WIND PRESSURES, p_{net}, DETERMINED PER SECTION 30.5.2 OF ASCE 7-16. THESE PRESSURES ARE BASED ON ASD WIND SPEED, V_{asd}, PER FIGURE 26.5-1A AND SHALL BE APPLIED NORMAL TO EACH BUILDING SURFACE AS SHOWN IN FIGURE 30.5-1.

COMPONENTS AND CLADDING DESIGN PRESSURES **
REFERENCE: FIGURE 30.5-1 & SECTION 30.5.2 OF ASCE 7-16

ZONE		EFFECTIVE WIND AREA	COMPONENT PRESSURE POSITIVE (+)	COMPONENT PRESSURE NEGATIVE (−)
ROOF	1	≤ a^2	+37.3	−37.3
		> a^2, ≤ 4.0a^2	+37.3	−37.3
		> 4.0a^2	+37.3	−37.3
	2	≤ a^2	+57.5	−57.5
		> a^2, ≤ 4.0a^2	+57.5	−57.5
		> 4.0a^2	+37.3	−37.3
	3	≤ a^2	+74.6	−74.6
		> a^2, ≤ 4.0a^2	+57.5	−57.5
		> 4.0a^2	+37.3	−37.3

REFERENCE FIGURES BELOW:

DESIGN ALL WINDOWS AND DOORS AS IMPACT RESISTANCE FOR PRESSURE ABOVE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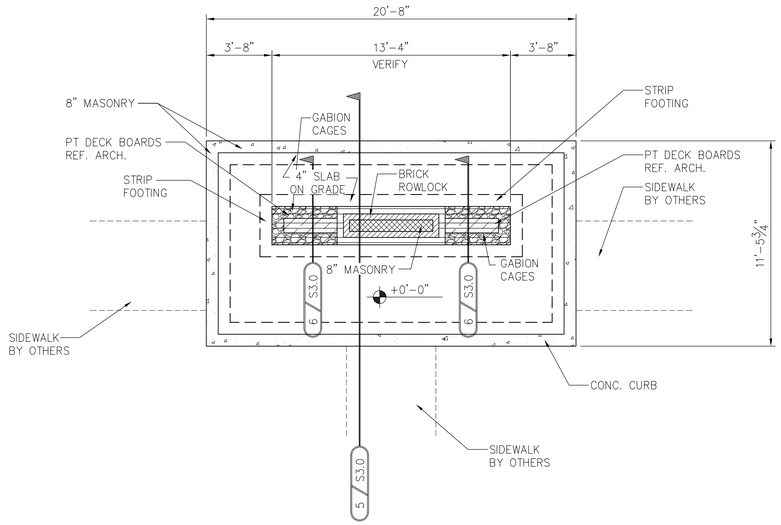
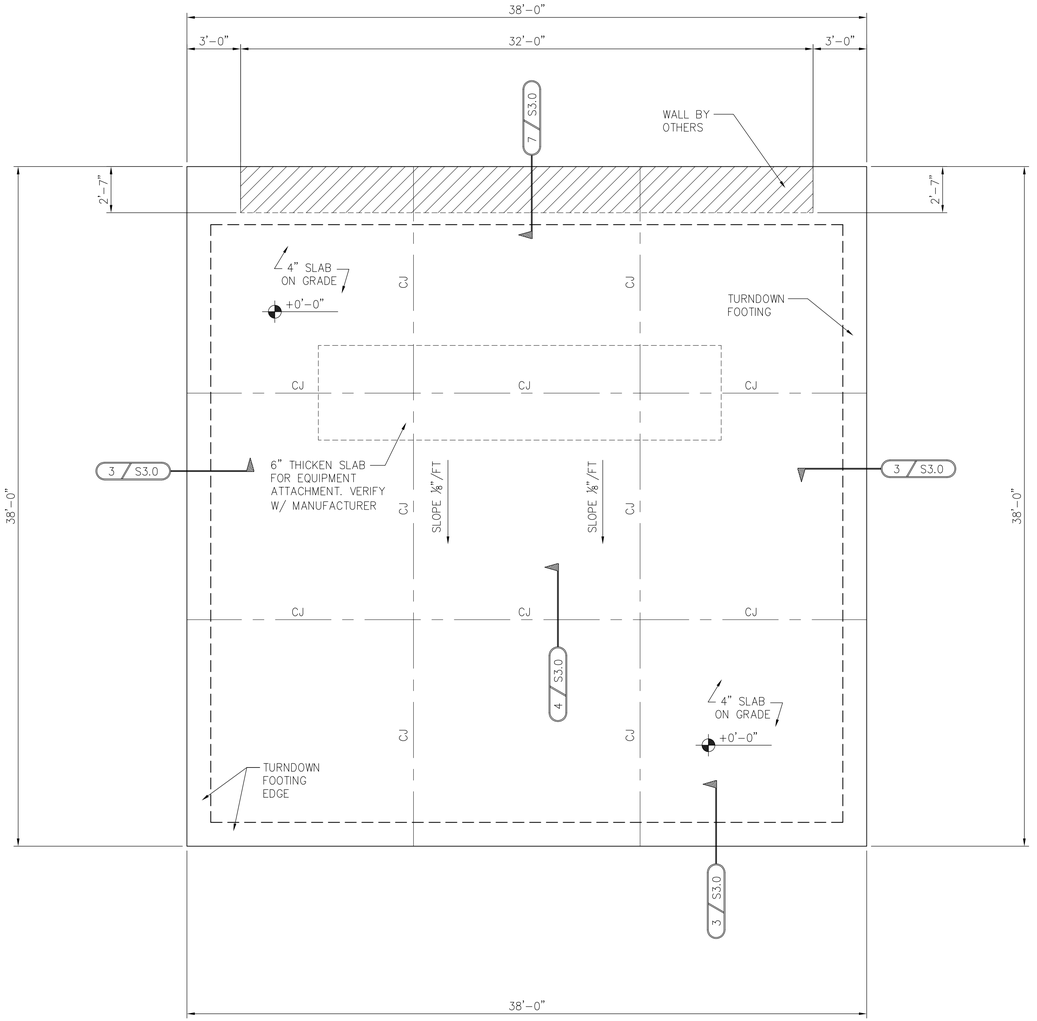


MONUMENT SIGN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O.



FOUNDATION PLAN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O.

LEGEND

+0'-0" FINISHED FLOOR ELEVATION

NOTES:
1. VERIFY ALL DIMENSIONS & FLOOR ELEVATIONS WITH ARCHITECTURAL PRIOR TO STARTING CONSTRUCTION.
2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF STUDS OR FACE OF SLAB U.N.O.

SLAB-ON-GRADE CONSTRUCTION

4" CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF FLAT SHEETS PLACED ON BRICKS/CHAIRS. PLACE OVER VAPOR BARRIER AND COMPACTED STRUCTURAL FILL MATERIAL. FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

SCALE: 1/4" = 1'-0"
4' 2' 0 2' 4' 8'

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PROJECT # 22086

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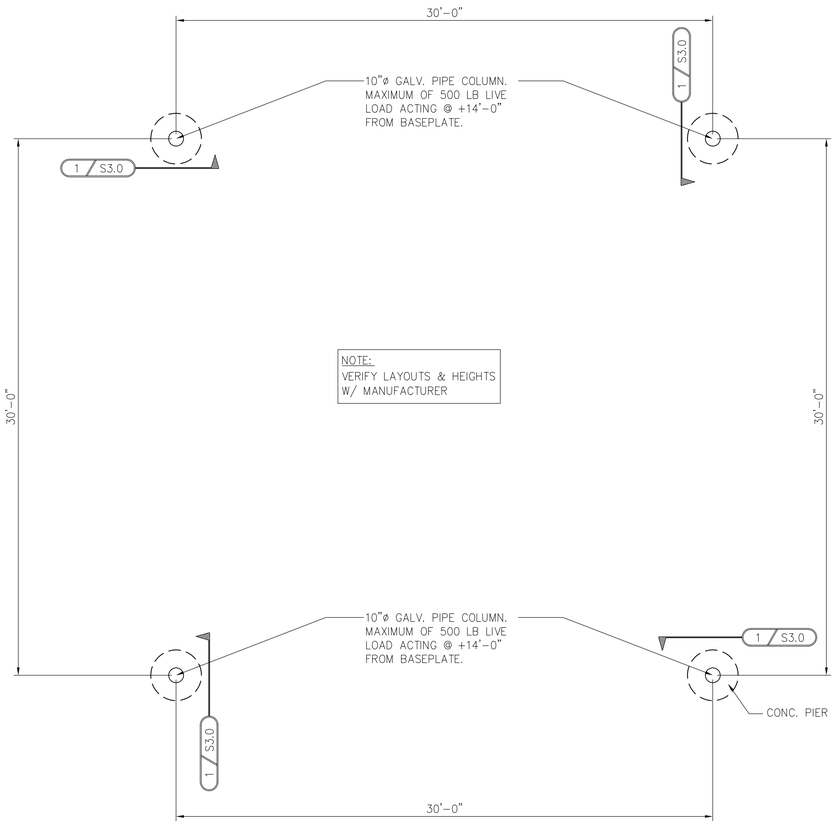
ALABAMA LICENSED 11-2-22 No. 24034 PROFESSIONAL ENGINEER

11.02.2022

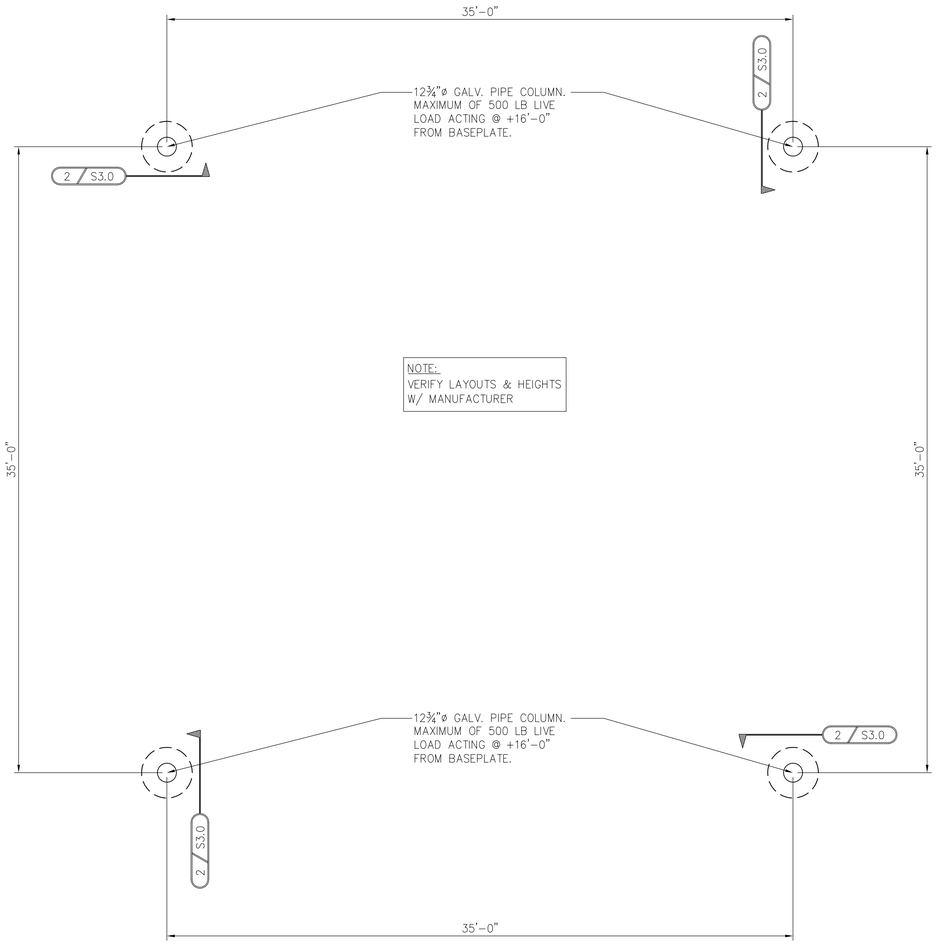
S1.0

FOUNDATION PLAN



SAIL PILE FRAMING PLAN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O.



SAIL PILE FRAMING PLAN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O.

SCALE: 1/4" = 1'-0"
4' 2' 0 2' 4' 8'

BARTON & SHUMER
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3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942
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PROJECT # 22086

MAURIN ARCHITECTURE P.C.
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251 690 1460 INFO@MAURINARCH.COM

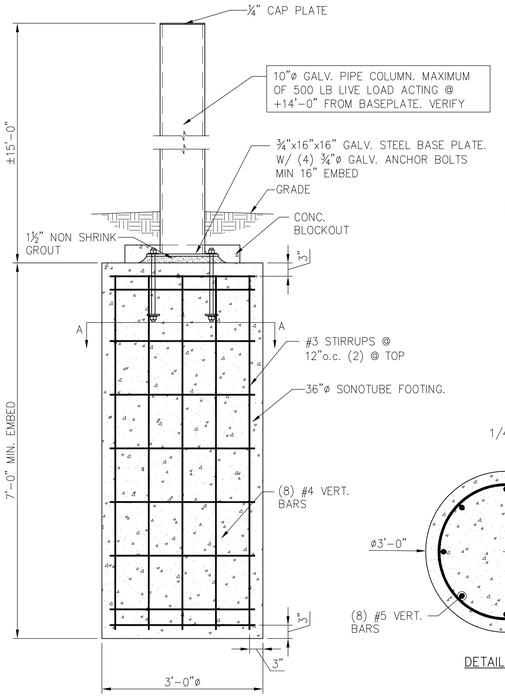
HACKMEYER PARK -
IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

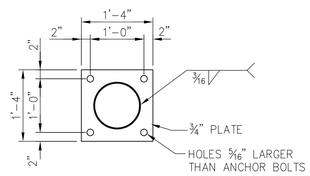
ALABAMA LICENSED 11-2-22 No. 24034 PROFESSIONAL ENGINEER

11.02.2022

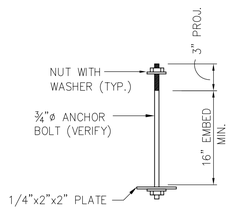
S2.0

PILE FRAMING PLAN

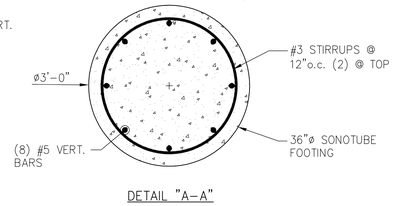




BASEPLATE @ 10"ø PIPE COLUMN



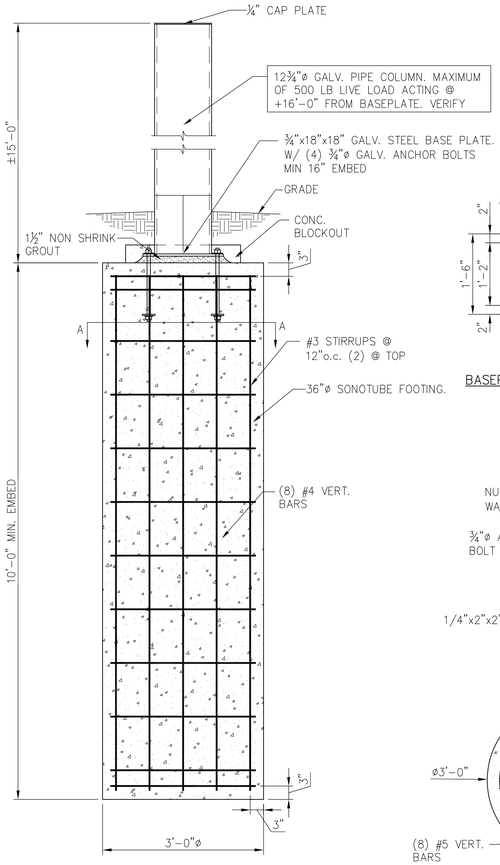
3/4"ø ANCHOR BOLT



DETAIL "A-A"

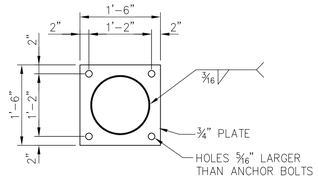
FOUNDATION @ SHADE SAIL

SECTION 1 S3.0
SCALE: 3/4"=1'-0"

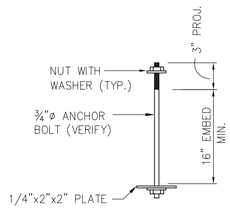


FOUNDATION @ SHADE SAIL

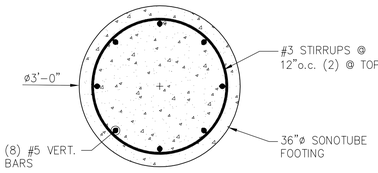
SECTION 2 S3.0
SCALE: 3/4"=1'-0"



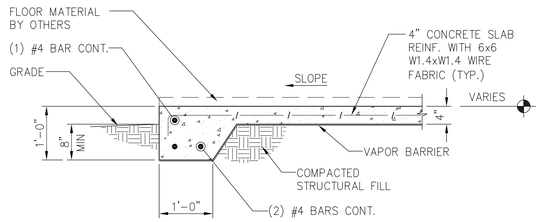
BASEPLATE @ 12 3/4"ø PIPE COLUMN



3/4"ø ANCHOR BOLT

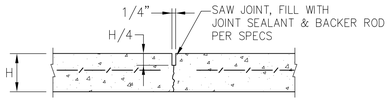


DETAIL "A-A"



SLAB EDGE @ POST

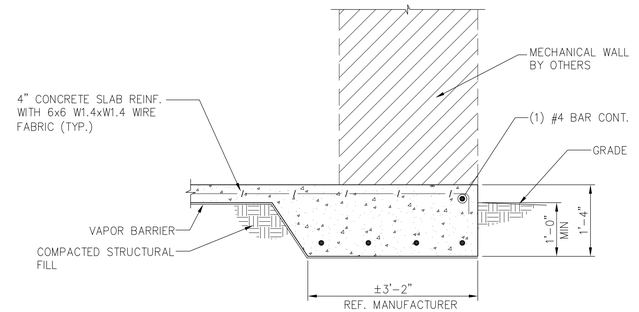
SECTION 3 S3.0
SCALE: 3/4"=1'-0"



NOTE:
SAW CUT JOINT WITHIN 4-12 HOURS AFTER PLACING CONCRETE

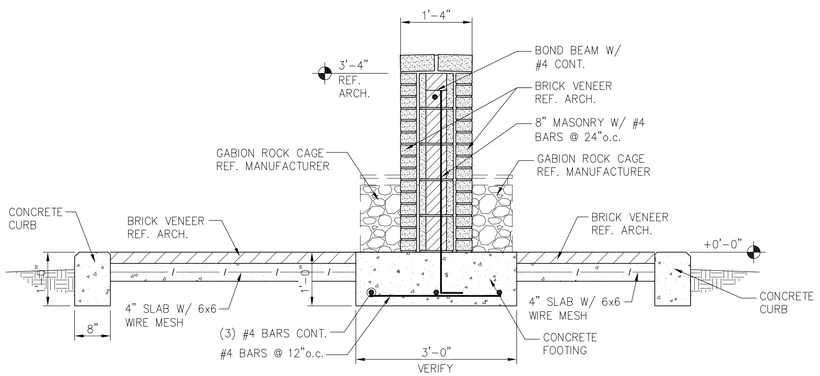
CONTROL JOINT

DETAIL 4 S3.0
NOT TO SCALE



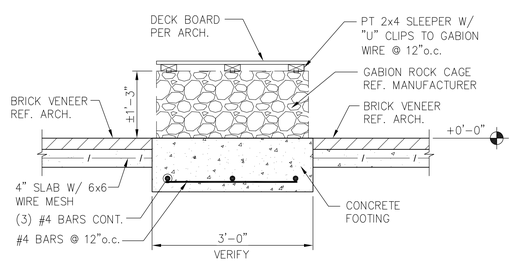
SLAB EDGE @ POST

SECTION 7 S3.0
SCALE: 3/4"=1'-0"



MONUMENT

SECTION 5 S3.0
SCALE: 3/4"=1'-0"



MONUMENT

SECTION 6 S3.0
SCALE: 3/4"=1'-0"

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PROJECT # 22086

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HACKMEYER PARK - IMPROVEMENTS PHASE 2 PR-034-21

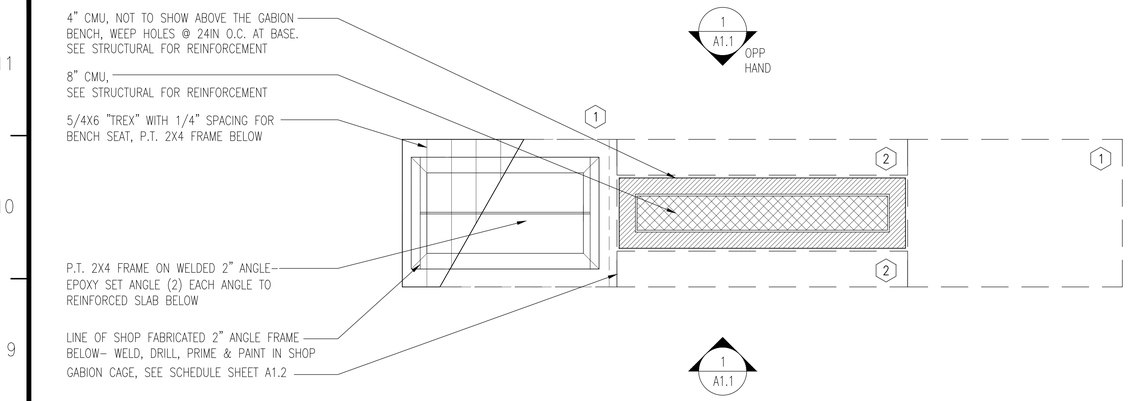
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 11-2-22 No. 24034 PROFESSIONAL ENGINEER

11.02.2022

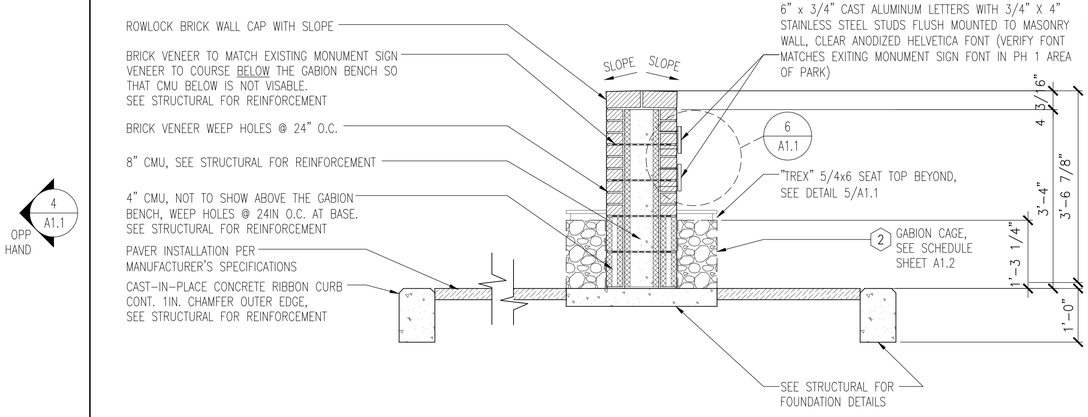
S3.0

SECTIONS AND DETAILS



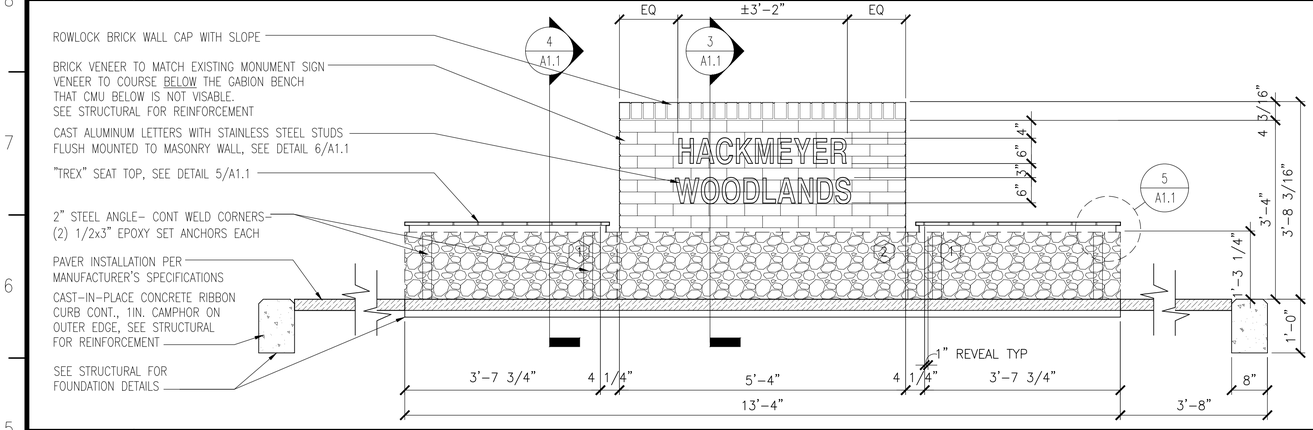
2 DETAIL PLAN - NEW MONUMENT SIGN

SCALE: 3/4"=1'-0"



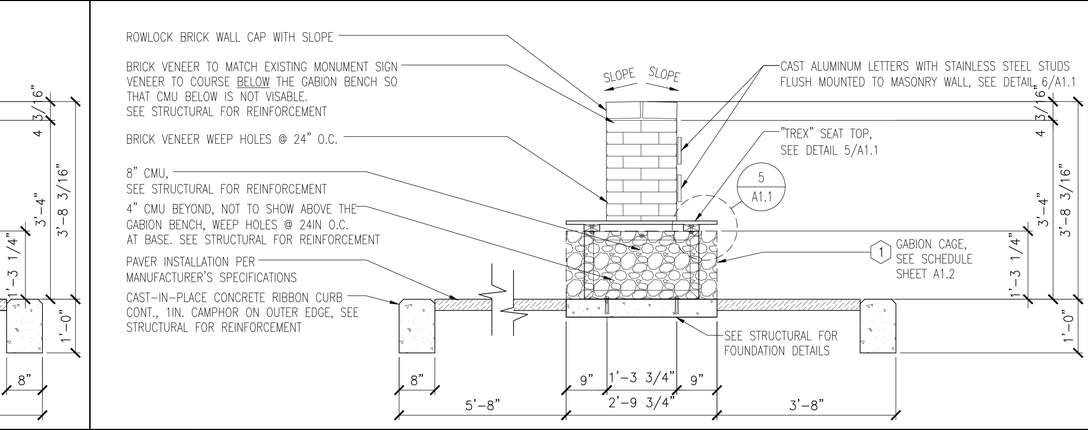
3 DETAIL PLAN - NEW MONUMENT SIGN

SCALE: 3/4"=1'-0"



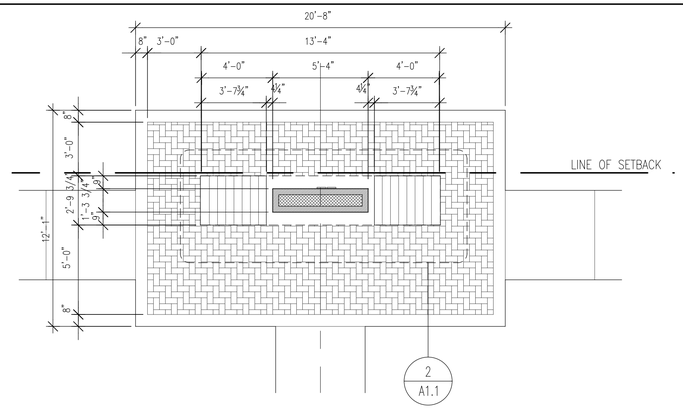
1 ELEVATION - NEW MONUMENT SIGN

SCALE: 3/4"=1'-0"



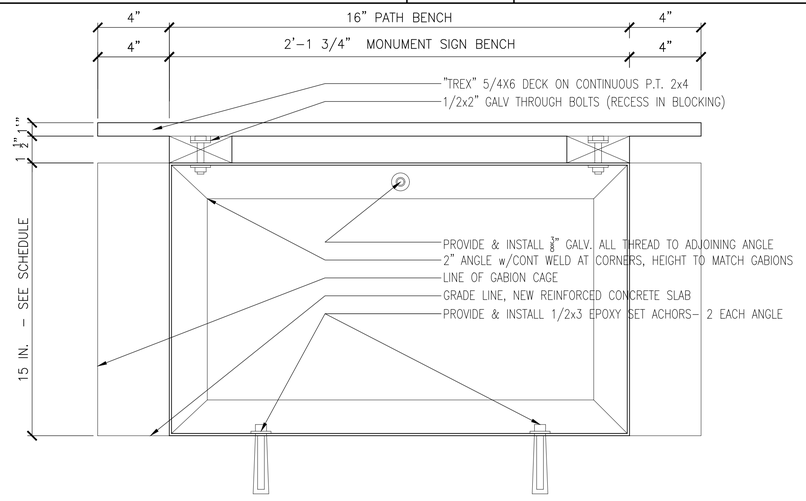
4 DETAIL PLAN - NEW MONUMENT SIGN

SCALE: 3/4"=1'-0"



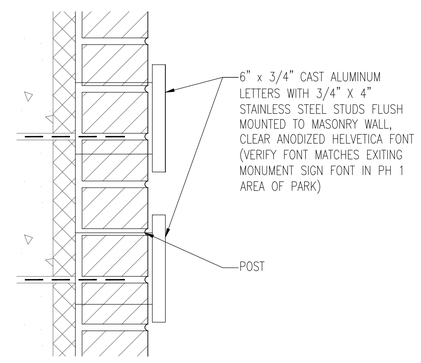
A DETAIL PLAN - NEW MONUMENT SIGN

SCALE: 1/4"=1'-0"



5 DETAIL - BENCH TOP

N.T.S.



6 DETAIL - SIGN LETTERS

SCALE: 3"=1'-0"

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HACKMEYER PARK - IMPROVEMENTS PHASE 2

PR-034-21

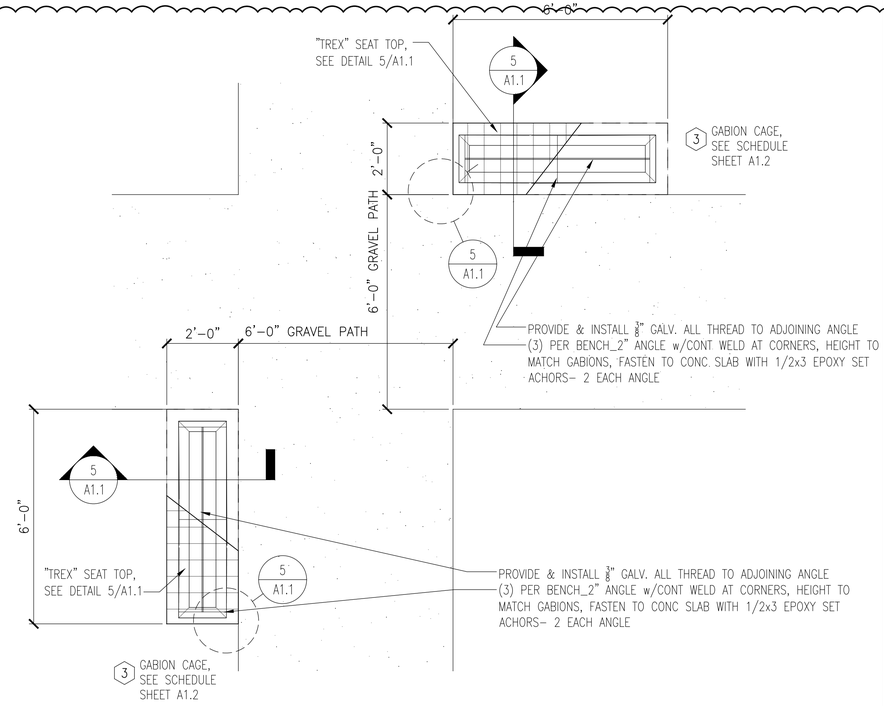
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022

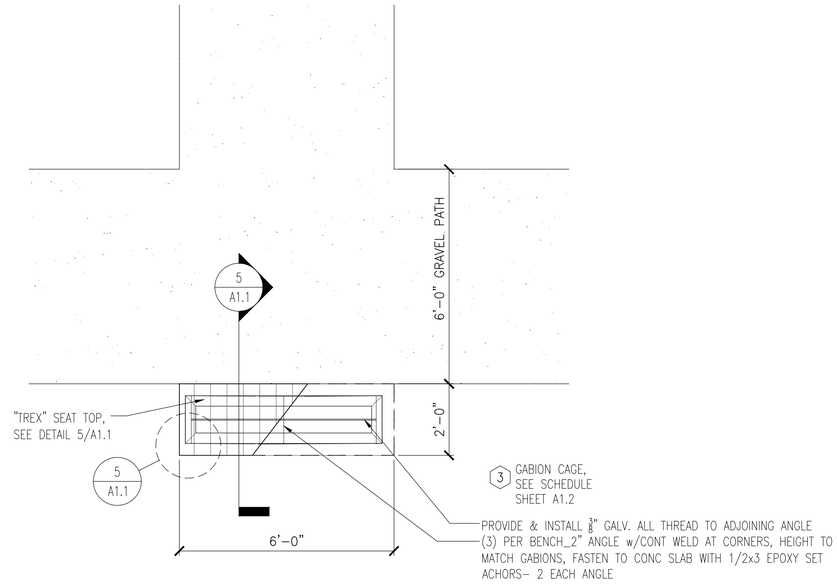
A1.1

DETAILS - GABION SIGN & SCHEDULE



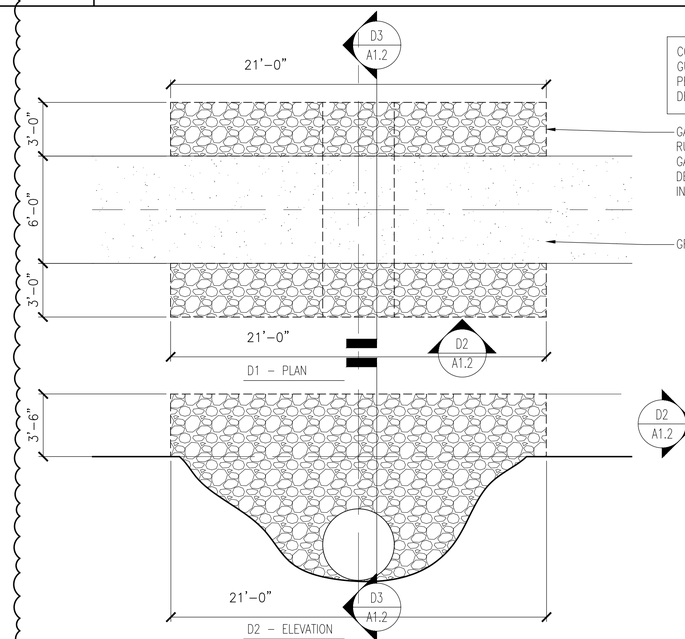
B GABION BENCH @ PATH "X" INTERSECTION

SCALE: 1/2"=1'-0"



C GABION BENCH @ PATH "T" INTERSECTION

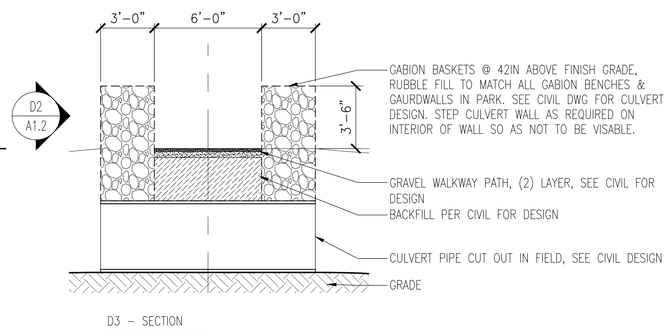
SCALE: 1/2"=1'-0"



COORDINATE GABION PEDESTRIAN GUARDWALL 42IN HEIGHT DESIGN PER THIS SHEET WITH CULVERT DESIGN PER CIVIL DRAWINGS

GABION BASKETS @ 42IN ABOVE FINISH GRADE, RUBBLE FILL TO MATCH ALL GABION BENCHES & GAURDWALLS IN PARK. SEE CIVIL DWG FOR CULVERT DESIGN. STEP CULVERT WALL AS REQUIRED ON INTERIOR OF WALL SO AS NOT TO BE VISABLE.

GRAVEL WALKWAY PATH, SEE CIVIL FOR DESIGN



D3 - SECTION

GABION BENCH SCHEDULE

GABION BASKET NO.	GABION BENCH NAME	GABION BENCH DETAIL	WIRE GA.	WIRE OPENING IN.	GABION BASKET DIMENSIONS			TREX TOP DIMENSIONS (1X)	
					L	W	H	L	W
1	MONUMENT SIGN/ BENCH	A/A1.1	6 GA	3 X 3	48 IN.	33 IN.	15 IN.	72 IN.	2'-9 3/4" IN.
2	MONUMENT SIGN/ BENCH	A/A1.1	6 GA	3 X 3	65 IN.	9 IN.	15 IN.	--	--
3	WOODED PATH BENCH	B/A1.2 & C/A1.2	6 GA	3 X 3	72 IN.	24 IN.	15 IN.	72 IN.	24 IN.
4	PEDESTRIAN BRIDGE GUARDRAIL (COORD. WITH CULVERT DESIGN BY CIVIL)	D/A1.2	6 GA	3 X 3	21 FT (252 IN)	36 IN.	42 IN. A.F.F.	--	--

GABION NOTES

1. COORDINATE ALL GABION BENCHES & PEDESTRIAN BRIDGES BETWEEN ARCHITECTURAL AND CIVIL DESIGN DRAWINGS..
2. ALL GABION CAGES TO BE INSTALLED THROUGH OUT THE PARK SHALL MATCH:
   WIRE MESH DIMENSION - 3IN X 3IN
   WIRE FINISH - GALVANIZED STEEL
   WIRE SIZE - 6 GAUGE
   BASKET CONSTRUCTION - SPIRAL WELDED WIRE CONNECTORS
3. ALL GABION BASKET INFILL MATERIAL TO BE INSTALLED THROUGH OUT THE PARK SHALL MATCH:
   STONE SIZE - 4 X 6 IN MIN.
4. CONTRACTOR TO HAND WORK INSTALL OF STONE INFILL FOR CONSISTENT, DENSE AND NEATNESS.

D GABION PEDESTRIAN BRIDGE GUARDWALL

SCALE: 1/4"=1'-0"

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STATE OF ALABAMA
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MAURINARCHITECTURE
SEAL
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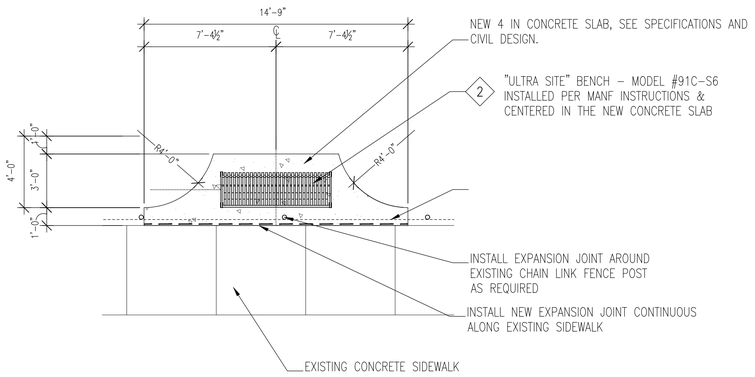
11.02.2022
ADDENDUM 01 - 11.07.21

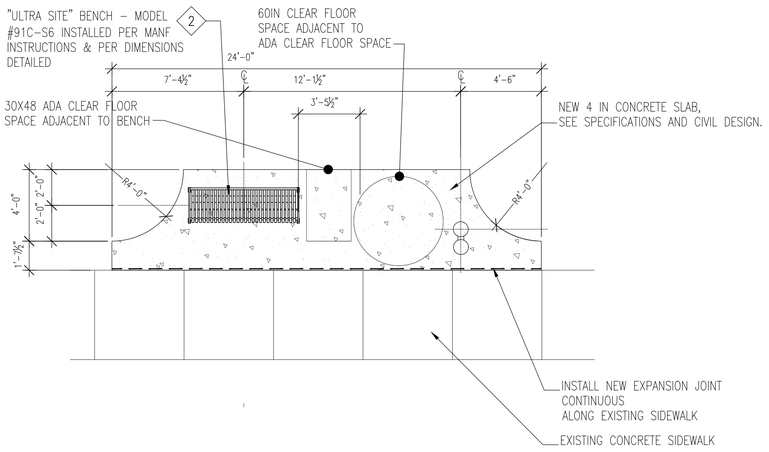
A1.2

DETAILS - GABION BRIDGE & BENCHES



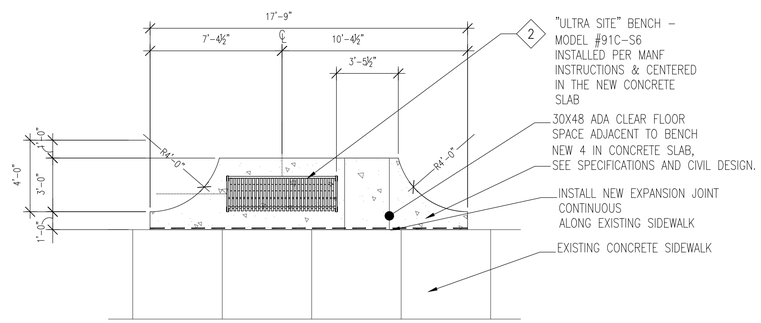
C DTL PLAN - BENCH IN DOG YARD

SCALE: 1/4"=1'-0"



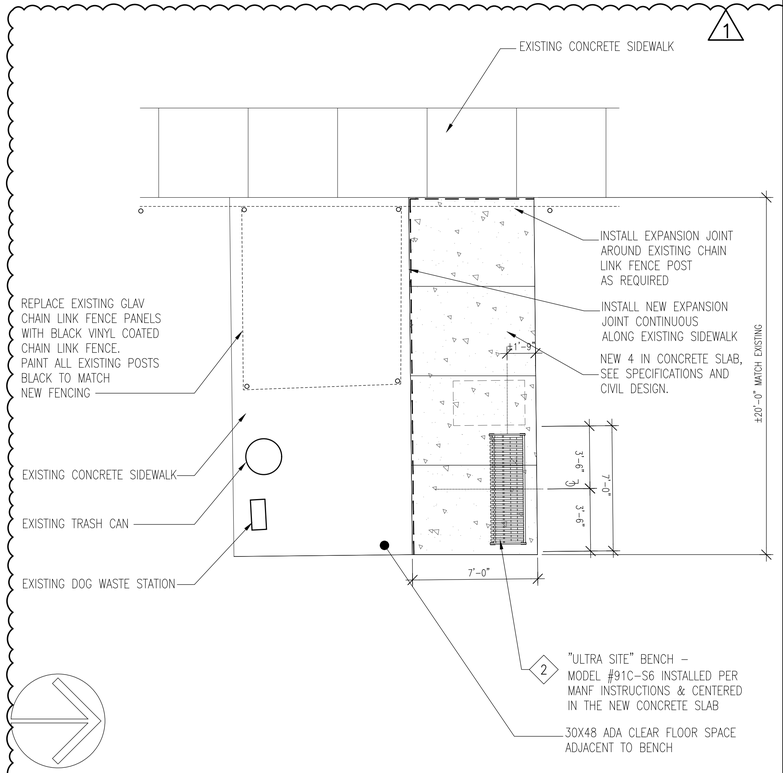
F DTL PLAN - ADA BENCH & FOUNTAIN

SCALE: 1/4"=1'-0"



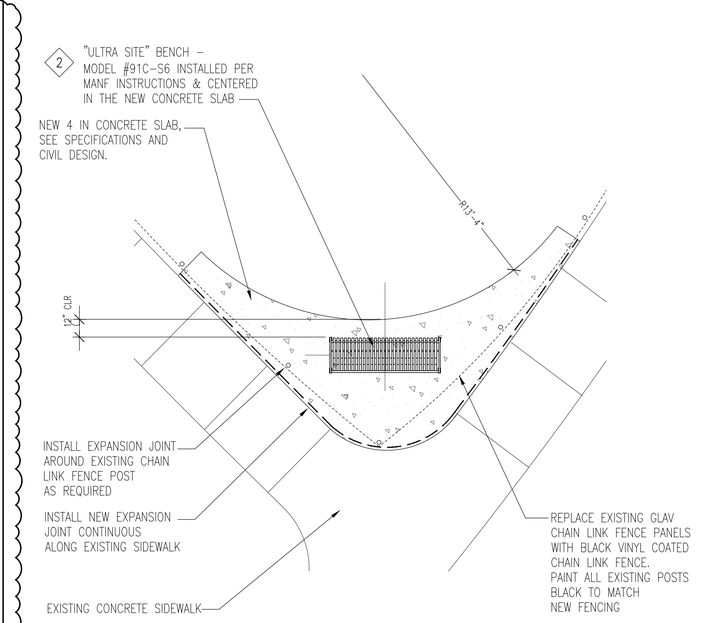
A DTL PLAN - ADA BENCH

SCALE: 1/4"=1'-0"



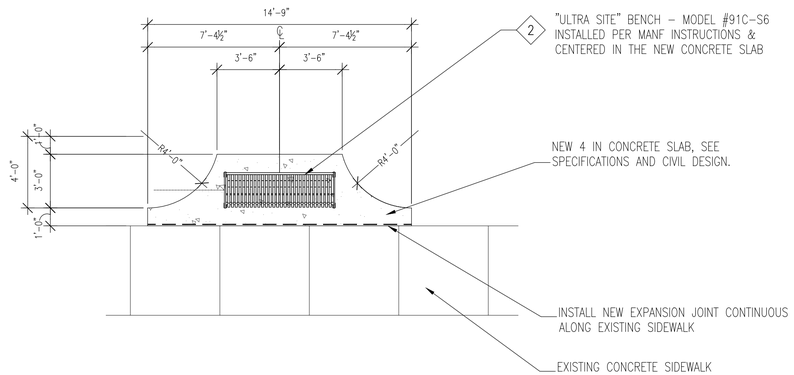
D DTL PLAN - DOG YARD VESTIBULE

SCALE: 1/4"=1'-0"



E DTL PLAN - BENCH IN DOG YARD

SCALE: 1/4"=1'-0"



B DTL PLAN - BENCH

SCALE: 1/4"=1'-0"

NOTES & SYMBOLS

1. SEE SHEET AS1.1 FOR DETAILS VIEW LOCATIONS

1 INDICATES FFE ITEM, SEE FFE SCHEDULE ON SHEET AS1.1

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SEAL
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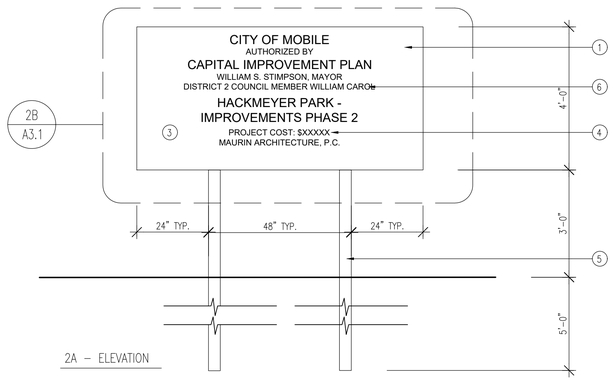
11.02.2022

1 ADDENDUM 01 – 11.07.21

A1.3

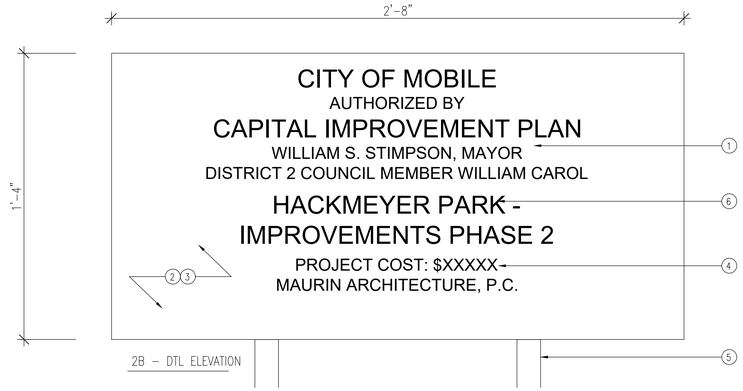
DETAILS - PARK FURNISHINGS



2A – ELEVATION

CONSTRUCTION JOB SITE SIGN NOTES

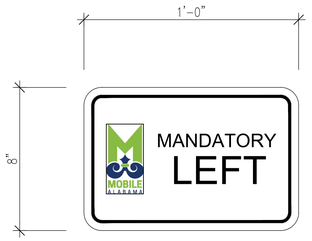
1. SIGN SHALL BE CONSTRUCTED OF 3/4IN MARINE GRADE PLYWOOD PAINTED WITH (2) COATS EXTERIOR SEMIGLOSS WHITE ENAMEL AND LETTERED WITH EXTERIOR BLACK ENAMEL
2. SIGN TO BE PLACED AT LOCATION(S) DIRECTED BY THE ARCHITECT.
3. SIGN SHALL BE FRESHLY PAINTED AND MAINTAINED IN GOOD CONDITION UNTIL COMPLETION OF PROJECT AND THEN REMOVED FROM THE SITE
4. PROJECT COST SHALL BE NEATLY PAINTED ON ORIGINAL SIGN, NOT ON A BOARD NAILED TO THE SIGN.
5. 4X4 PRESSURE TREATED WOOD POST TO BE PAINTED WITH (2) COATS EXTERIOR SEMIGLOSS WHITE ENAMEL
6. VERIFY VERBIAGE OF SIGN WITH PROJECT ARCHITECT BEFORE FABRICATING AND INSTALLING. SUBMIT PROOF FOR APPROVAL TO ARCHITECT PRIOR TO INSTALLATION.



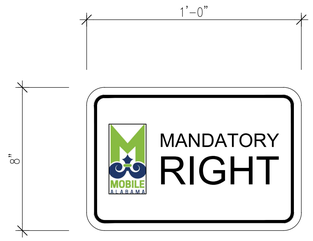
2B – DTL ELEVATION

2 CITY OF MOBILE - CONSTRUCTION JOB SITE SIGN

SCALE: 3"=1'-0"

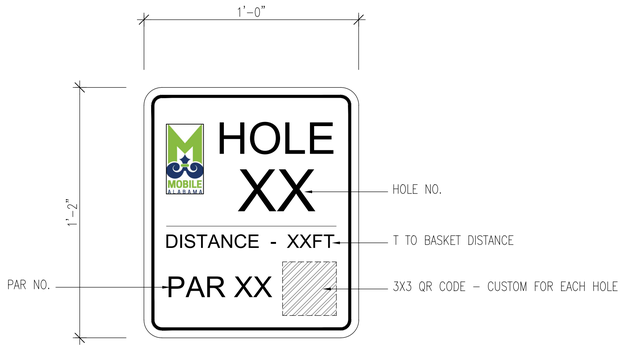


SIGN TYPE A - MANDATORY LEFT



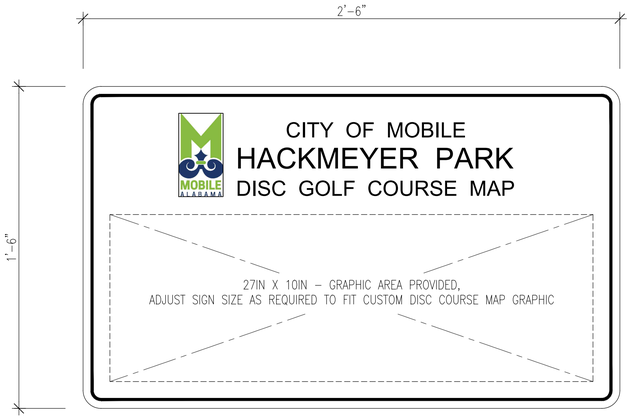
SIGN TYPE B - MANDATORY RIGHT

SIGN TYPE C - WATCH FOR FLYING DISC



SIGN TYPE D - T - SIGN, SHALL INDICATE:
- HOLE NO.
- DISTANCE
- PAR
- POSSIBLE QR CODE

SIGN TYPE E - DISC GOLF RULES
- COPY TO BE COORDINATED WITH DISC GOLF COURSE CONSULTANT.
- NOTE - ADJUST SIGN SIZE AS REQUIRED TO FIT RULES COPY.



SIGN TYPE F - DISC GOLF COURSE MAP
- COPY TO BE COORDINATED WITH DISC GOLF COURSE CONSULTANT.
- NOTE - ADJUST SIGN SIZE AS REQUIRED TO FIT CUSTOM DISC GOLF COURSE MAP/ GRAPHICS.

GENERAL NOTES - DISC GOLF SIGNAGE

NOTE 1 PROJECT BUDGET TO INCLUDE $5,000.00 ALLOWANCE FOR DISC GOLF COURSE SIGNAGE, SEE SPECIFICATION 01210

NOTE 2 ALL DISC GOLF SIGNAGE AND DISC GOLF COURSE HOLE DESIGN TO BE COORDINATED WITH THE DISC GOLF COURSE CONSULTANT LISTED ON THIS SHEET AND PER SPECIFICATION 10431

NOTE 3 DISC GOLF COURSE & SIGNAGE CONSULTANT:
NAME: PHILIP TAIT
EMAIL: PDT901@JAGMAIL.SOUTHALABAMA.EDU
PHONE:

NOTE 4 ALL DISC GOLF SIGN MATERIAL PER SPECIFICATION 10431 AND AS FOLLOWS: PRINTED FRONT ONLY, WHITE "MAXMETAL" WITH UV COATING AND ROUND CORNERS

NOTE 5 EACH SIGN NEEDS TO BE PRE-DRILLED AND FASTENED TO STL STAKES PER SIGN FABRICATOR RECOMMENDATIONS.

NOTE 6 EACH SIGN IS MOUNTED ON STL STAKES – (1 OR 2) STL LANDSCAPE HAT CHANNEL RODS EMBEDDED 4FT BELOW GRADE AND INSTALLED PLUMB, COLOR – FOREST GREEN

NOTE 6 TOP OF EACH SIGN TO BE INSTALLED AT 48-60IN ABOVE GRADE. COORDINATE EACH SIGN INSTALLATION HEIGHT WITH DISC GOLF CONSULTANT

DISC GOLF COURSE SIGNAGE MATRIX

HOLE NO.	SIGN TYPE & QUANTITITES					
DISC GOLF CONSULTANT AND ARCITECT TO REVIEW AND APPROVAL DISC GOLF SIGN SUBMITTAL PACKAGE PRIOR TO ORDERING. COORDINATE ALL SIGN TYPE DESIGN WITH DISC GOLF CONSULTANT.	SIGN TYPE A	SIGN TYPE B	SIGN TYPE C	SIGN TYPE D	SIGN TYPE E	SIGN TYPE F
	A	B	C	D	E	F
HOLE 1	–	–	–	1	1	–
HOLE 2	–	–	–	1	–	–
HOLE 3	–	–	–	1	–	–
HOLE 4	–	–	–	1	–	–
HOLE 5	–	–	–	1	–	–
HOLE 6	–	–	–	1	–	–
HOLE 7	–	–	–	1	–	–
HOLE 8	–	–	–	1	–	–
HOLE 9	–	–	–	1	–	–
HOLE 10	–	–	–	1	–	–
HOLE 11	–	–	–	1	–	–
HOLE 12	–	–	–	1	–	–
HOLE 13	–	–	–	1	–	–
HOLE 14	–	–	–	1	–	–
HOLE 15	–	–	–	1	–	–
HOLE 16	–	–	–	1	–	–
HOLE 17	–	–	–	1	–	–
HOLE 18	–	–	–	1	–	–
NEAR BOTH ENTRANCES OF PARK	–	–	–	–	2	2
TOTAL SIGNS TYPES	3	10	5	18	2	2

1 DISC GOLF COURSE SIGNAGE

SCALE: 3"=1'-0"

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

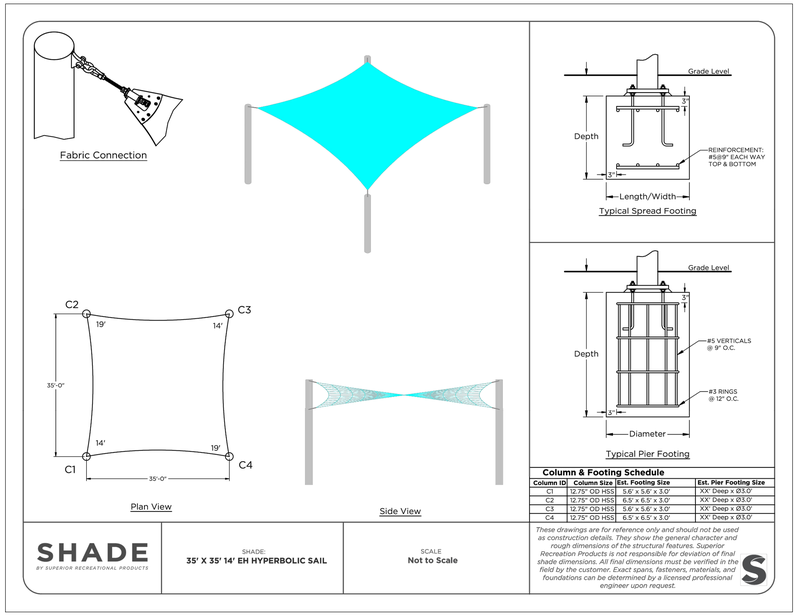
HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH MOBILE, ALABAMA 36608

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/07/22
REGISTERED ARCHITECT

11.07.2022

A3.1

SIGNAGE - DISC GOLF COURSE

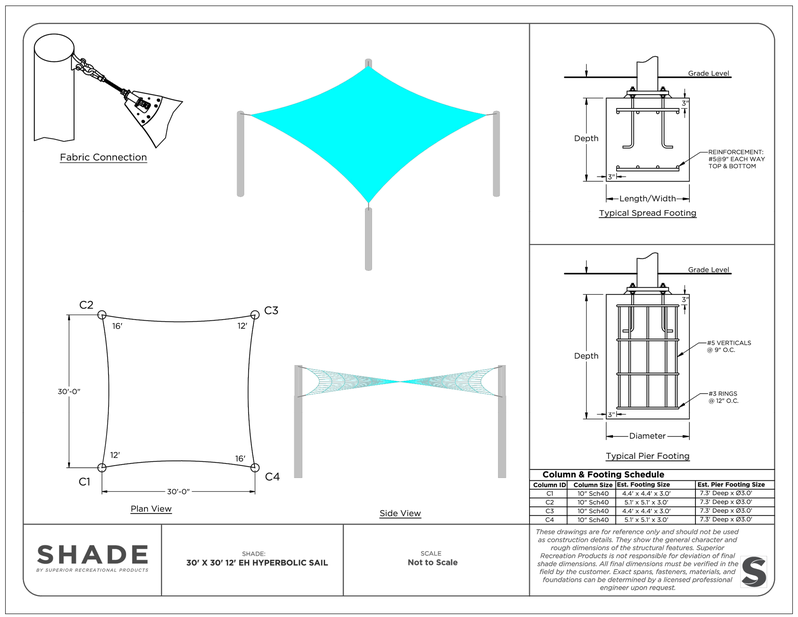


Column & Footing Schedule

Column ID	Column Size	Est. Footing Size	Est. Pier Footing Size
C1	12.75" OD HSS	5.6' x 5.6' x 3.0'	XX' Deep x Ø3.0'
C2	12.75" OD HSS	6.5' x 6.5' x 3.0'	XX' Deep x Ø3.0'
C3	12.75" OD HSS	5.6' x 5.6' x 3.0'	XX' Deep x Ø3.0'
C4	12.75" OD HSS	6.5' x 6.5' x 3.0'	XX' Deep x Ø3.0'

2 NEW SHADING DEVICE - TYPE A (LARGE)

SCALE: NOT TO SCALE

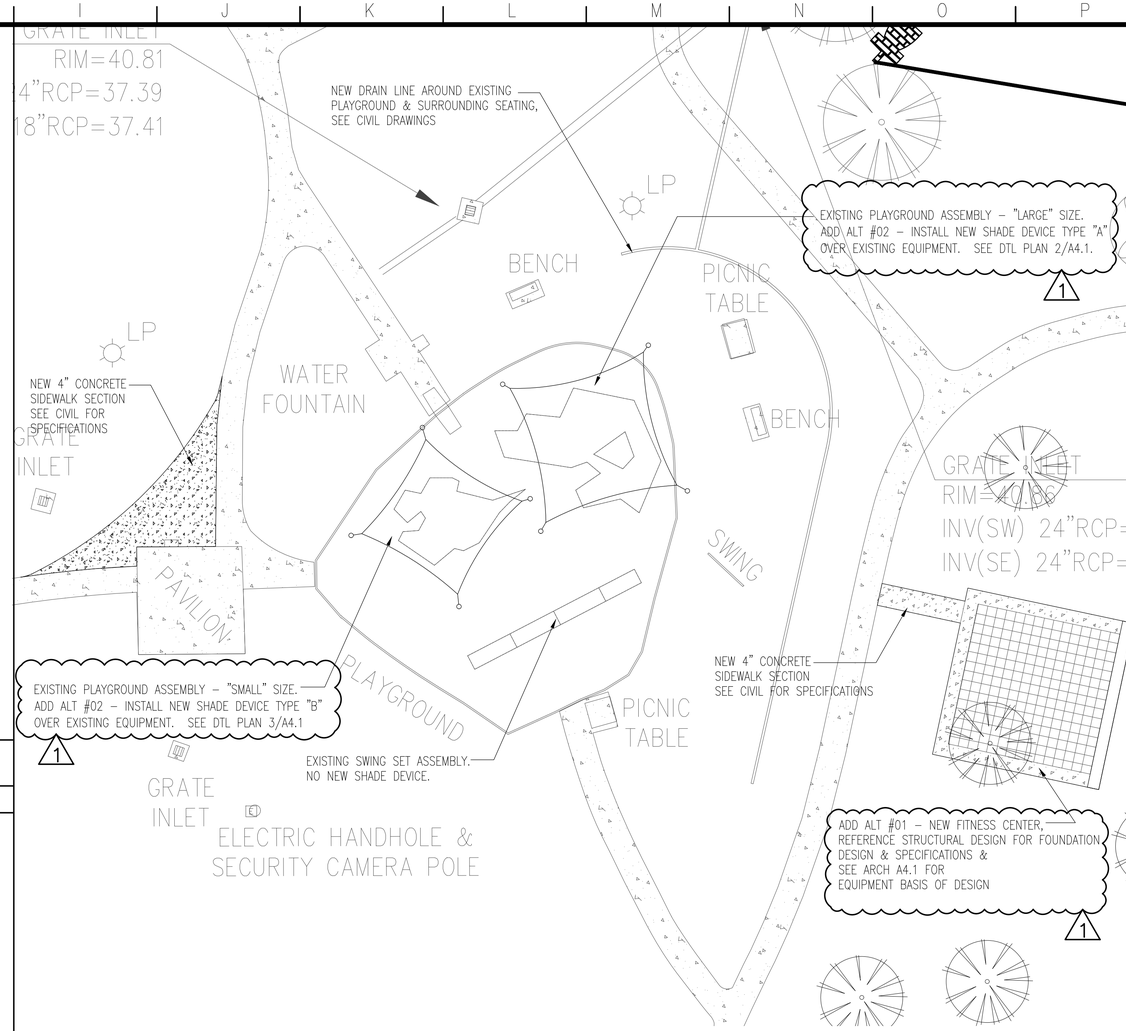


Column & Footing Schedule

Column ID	Column Size	Est. Footing Size	Est. Pier Footing Size
C1	10" Sch40	4.4' x 4.4' x 3.0'	7.3' Deep x Ø3.0'
C2	10" Sch40	5.1' x 5.1' x 3.0'	7.3' Deep x Ø3.0'
C3	10" Sch40	4.4' x 4.4' x 3.0'	7.3' Deep x Ø3.0'
C4	10" Sch40	5.1' x 5.1' x 3.0'	7.3' Deep x Ø3.0'

3 NEW SHADING DEVICE - TYPE B (SMALL)

SCALE: NOT TO SCALE



1 DETAIL SITE PLAN - ADD ALT #02 PLAYGROUND

SCALE: 1/16"=1'-0"

NOTES

ADD ALT #01: INSTALL (2) NEW SHADING STRUCTURES OVER (2) EXISTING PLAY EQUIPMENT.

SHADE STRUCTURE MANF:
STRUTHERS RECREATION
MELISSA ISBELL, CPSI
PROJECT DESIGNER
MELISSA@STRUCTHERSREC.COM

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH MOBILE, ALABAMA 36608

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022
1 ADDENDUM 01 – 11.07.21

A4.2

ADD ALT #02 - PLAYGROUND SHADING DEVICES

SLAB NOTES
(FOR FLAT TOP SLAB / TILE FLOOR INSTALLATION)

NOTES:

CONCRETE:
1. ALL SLAB CONCRETE TO BE 4,000 PSI AT 28 DAYS. 4,500 PSIBY MIX MAY BE UTILIZED ONLY IF THE MIX DESIGN IS APPROVED BY THE ENGINEERS.
2. CEMENT SHALL CONFORM TO ASTM C 150, TYPE II.
3. FINE AGGREGATE SHALL CONFORM TO ASTM C 33.
4. COARSE AGGREGATE SHALL BE CLEAN, HARD, UNIFORM IN COLOR STONE CONFORMING TO ASTM C 33. COARSE AGGREGATE FOR FLOOR SLAB SHALL NOT EXCEED 1 ¼" AT ITS MAXIMUM WIDTH.
5. WATER SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, ORGANIC MATERIALS OR DELETERIOUS SUBSTANCES.
6. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C 260.
7. WATER REDUCING ADMIXTURE SHALL CONFORM TO ASTM C 494, OR ANY ADMIXTURES CONTAINING MORE THAN 0.0% CHLORIDE IONS ARE NOT PERMITTED.
8. NONMETALLIC FIBERS: ANY CONCRETE TO BE PLACED IN ACCORDANCE WITH ACI 330 LATEST EDITION.
9. THE ALLOWABLE CONCRETE SLUMP SHALL BE 3" PLUS OR MINUS 1" UNLESS SUPERPLASTICIZERS ARE USED. THE ENGINEER SHALL APPROVE SUPERPLASTICIZER USE.
10. NO CONCRETE SHALL BE PLACED WHEN THE AMBIENT TEMPERATURE IS BELOW 40°F WITHOUT PERMISSION OF THE ENGINEER.
11. THE ENGINEER OR THE OWNER MAY ACCEPT OR REJECT ANY WORK THAT DOES NOT MEET THE REQUIREMENTS OF THESE NOTES OR THE PROJECT DRAWINGS.
12. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM C 31 AND ASTM C 39. TEST SPECIMENS SHALL BE TAKEN AT THE RATE OF NOT LESS THAN ONE SET PER 50 CU. YDS. APPROPRIATE NUMBER OF CYLINDERS SHALL BE ACQUIRED TO PROVIDE FOR TESTING AT 7 DAYS AND 28 DAYS.
13. AT REQUEST OF OWNER, COMPRESSIVE STRENGTH OF THE CONCRETE TO DETERMINE WHEN, BY TESTS OF CUBES, FORMS MAY BE REMOVED OR LOADING MAY BE APPLIED. ADDITIONAL CYLINDERS SHALL BE TESTED AT 3 DAYS.
14. SLUMP TEST SHALL BE MADE AT THE POINT OF DISCHARGE. ONE SLUMP TEST SHALL BE MADE FOR EACH 50 CU. YDS. OF CONCRETE PLACED. SLUMP TEST SHALL BE MADE AT LEAST ONCE EACH DAY. SLUMP SHALL NOT EXCEED 5" (+/- 1") PREMIXED CONCRETE. SLUMP SHALL NOT EXCEED 6" (+/- 1") FOR CONCRETE PLACED BY PUMP.
15. ALL CONCRETE SHALL BE PLACED WHERE THE ATMOSPHERIC TEMPERATURE IS BELOW 40°F WITHOUT PERMISSION OF THE ENGINEER. SPACING: SAW CUT JOINTS TO BE MADE AS SOON AS THE CONCRETE HAS CURED SUFFICIENTLY TO ALLOW THE SAW(S) TO OPERATE WITHOUT DISLODGING THE CONCRETE AGGREGATE. THE CONCRETE SHALL BE SAWED TO A DEPTH OF 1/4 OF THE CONCRETE PLACEMENT PER MANUFACTURER'S INSTRUCTIONS.
16. INCREASE 4" TO 6" OF CRUSHED RUN GRAVEL AS SHOWN IN SECTION DETAIL
17. SOIL TO BE COMPACTED TO MEET THE REQUIREMENTS OF 95% MODIFIED PROCTOR.

REINFORCEMENT:
1. WELDED WIRE REINFORCING 6 X 6 X 6/6 WELDED WIRE MESH 30MM PLACED IN THE CENTER OF THE SLAB TO EXTEND THROUGH ENTIRE SLAB. UTILIZE SUPPORT WIRIES OR CHAIRS TO MAINTAIN MESH POSITION.
2. INSTALL ADDITIONAL / UPGRADED REINFORCEMENT AS REQUIRED BY LOCAL CODE.
3. PROVIDE #4 BARS AT 12" O.C. EACH WAY AT ALL SLAB OPENINGS AND AT RE-ENTRANT CORNERS.
4. PROVIDE #4TOP BARS BELOW THE SLAB AS REQUIRED BY LOCAL CODE AND CONDITIONS.

CONCRETE FINISHING NOTES:
1. THE FINISHED CONCRETE SURFACE SHOULD BE SMOOTH TO PREVENT SNAGS/LATTERS, ASSUMING, OR OTHER OBJECTS THAT WOULD AFFECT THE FINISHED FLOOR SURFACE. THE SURFACE SHALL BE FREE OF CRACKS, PITS, OR OTHER IMPERFECTIONS.
2. THE FINISHED CONCRETE SURFACE SHOULD HAVE A LIGHT BROOM FINISH TO PROVIDE THE BEST SURFACE FOR COURT SURFACE ADHESION.
3. IMPORTANT: FOR INSTALLATIONS THAT REQUIRE FLOORING INSTALLATION SEEN LESS THAN 30 DAYS) AFTER CONCRETE PLACEMENT, APPLICATION OF "SPRAYCURE" RESILIENT 531 CR OR EQUIVALENT CURING COMPOUND IS REQUIRED. FOR INSTALLATIONS THAT REQUIRE FLOORING INSTALLATION AFTER 30 DAYS, CONSULT WITH FLOORING MANUFACTURER FOR APPLICATION. CONFIRM PRODUCT SELECTION WITH THE MANUFACTURER. APPLY SPRAYCURE PRODUCT PER DAY OF THE CONCRETE PLACEMENT PER MANUFACTURER'S INSTRUCTIONS.

ANCHOR NOTES:
1. FIELD VERIFY ALL ANCHOR LOCATION DIMENSIONS AND PATTERNS PRIOR TO DRILLING.
2. DRILL THROUGH TILE FLOOR, 2" TILE THICKNESS WHERE NECESSARY WITH APPROPRIATE DRILL BIT TO MATCH ANCHOR HOLE IN CONCRETE.
3. SEE ANCHOR DETAILS FOR APPLICABLE CONCRETE EMBEDMENT DEPTH AND HOLE DIAMETER.
4. STAINLESS STEEL PILOT BE USED WHERE SPECIFIED.
5. COMPONENTS SPECIFIED AS HOT-DIP GALVANIZED MAY BE SUBSTITUTED WITH 304 SS COMPONENTS.
6. WHEN INSTALLING ANCHORS, TAKE CARE TO USE THREAD PROTECTORS TO PREVENT THREAD DAMAGE

SYSTEMS:
1. SITE PREPARATION REQUIREMENTS AND CONCRETE SLAB DESIGN SHOULD BE REVIEWED BY LOCAL CIVIL OR SOILS ENGINEER TO CONFIRM SUITABILITY BASED UPON SITE SPECIFIC NEEDS AND CONDITIONS.

ANCHOR BILL OF MATERIAL			
ITEM	QTY	DESCRIPTION	NOTES
ANCHOR A	30	WALL ANCHOR	SEE ANCHOR DETAILS
ANCHOR B	28	DROP-IN ANCHOR	SEE ANCHOR DETAILS
ANCHOR C	48	MECHANICAL ANCHOR	SEE ANCHOR DETAILS
ANCHOR EPOXY	AS REQ'D	HILTI HIT-HY 200 FOR WALL ANCHORS (SEE ANCHOR DETAILS RE: ALTERNATE EPOXY)	SEE ANCHOR DETAILS

INSTALLATION SEQUENCE
(FOR FLAT TOP SLAB / TILE FLOOR INSTALLATION)

1. REVIEW ALL DRAWINGS INCLUDING ALL NOTES TO BECOME FAMILIAR WITH SEQUENCE AND DETAILS.
2. DURING INSTALLATION SEQUENCE, REFER TO AND COMPLY WITH APPLICABLE NOTES.
3. LAYOUT AND MARK LOCATIONS OF ALL ANCHORS PER ANCHOR LOCATION DRAWING.
4. BUILD FORMS FOR SLAB TO PERIMETER OF THE SLAB WITH DIMENSIONS PER SLAB PLAN AND SELECTED WIDTH OF GUTTER BAND AROUND FITNESS COURT AREA.
5. INSTALL REINFORCEMENT STEEL PER THE REINFORCEMENT PROVIDED.
6. INSTALL ANCHORS AS REQUIRED PER ANCHOR DETAILS AND SECTION IN CONCRETE SLAB PLAN & CROSS SECTION DRAWING.
7. FINISH CONCRETE TO THE SLOPE SPECIFIED FOR DRAINAGE.
8. ALLOW CONCRETE TO CURE FOR 3 DAYS BEFORE PROOF TO INSTALLING ANCHORS.
9. PROOF ALL ANCHORS PER WALL ANCHOR LOCATION DRAWING AND FLOOR ANCHOR LOCATION DRAWING.
10. PLACE ANCHORS PER WALL ANCHOR LOCATION DRAWING AND FLOOR ANCHOR LOCATIONS DRAWING. ANCHOR LOCATION DIMENSIONS ARE DESIGNATE DIMENSIONS REGARDED HAVE THE OPEN JOINT CLEARING OF THE TILE FLOOR. CENTER CONCRETE DIMENSIONS ARE USED FOR PLACING ANCHORS.
11. **NOTE: MAKE SURE THE ANCHOR HOLE IS VERTICAL WHEN DRILLING HOLES FOR ANCHORS.**
12. **NOTE: MAKE SURE THE HAMMER DRILL IS VERTICAL WHEN DRILLING HOLES FOR ANCHORS.**
13. SET ANCHORS PER MANUFACTURER'S INSTRUCTIONS AND ANCHOR DETAILS.
14. NOTE: PLYBOX AND BEND STATION TEMPLATES WILL REQUIRE REUSE TO LOCATE ALL ANCHORS. REFER TO TEMPLATE NOTES FOR DETAILS OF SURFACE TEMPLATES.
15. INSTALL SPOT ANCHORS TO THE DEPTH INDICATED UTILIZING THE DRILLING SPOT AND THE MANUFACTURER'S SPOT INSTALLATION INSTRUCTIONS.
16. INSTALL MECHANICAL ANCHORS TO THE DEPTH INDICATED. **BE CAREFUL TO AVOID DRILLING ANCHORS TOO DEEP FOR THE BOND SYSTEMS.**

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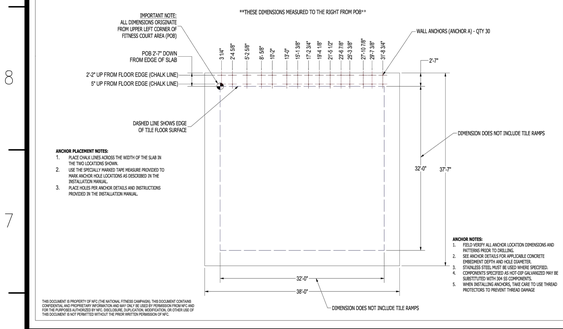
NATIONAL FITNESS CAMPAIGN
SAN FRANCISCO, CA

DATE: 3/15/2021
BY: RADIUS INNOVATIONS
NAME: TILE SLAB
REV: 7.1 PAGE S4

WALL ANCHOR LOCATIONS
(FLOOR ANCHORS SHOWN ON SEPARATE DRAWING)



ANCHOR PLACEMENT NOTES:
1. PLACE CHALK LINES ACROSS THE WIDTH OF THE SLAB IN THE TWO LOCATIONS SHOWN.
2. USE THE SPECIALLY MARKED TAPE MEASURE PROVIDED TO LOCATE ALL ANCHOR LOCATIONS AS DESCRIBED IN THE INSTALLATION MANUAL.
3. PLACE HOLES PER ANCHOR DETAILS AND INSTRUCTIONS PROVIDED IN THE INSTALLATION MANUAL.

ANCHOR NOTES:
1. FIELD VERIFY ALL ANCHOR LOCATION DIMENSIONS AND PATTERNS PRIOR TO DRILLING.
2. SEE ANCHOR DETAILS FOR APPLICABLE CONCRETE EMBEDMENT DEPTH AND HOLE DIAMETER.
3. STAINLESS STEEL PILOT BE USED WHERE SPECIFIED.
4. COMPONENTS SPECIFIED AS HOT-DIP GALVANIZED MAY BE SUBSTITUTED WITH 304 SS COMPONENTS.
5. WHEN INSTALLING ANCHORS, TAKE CARE TO USE THREAD PROTECTORS TO PREVENT THREAD DAMAGE

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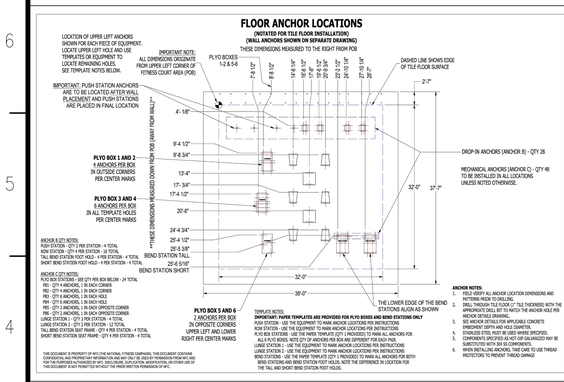
DATE: 3/15/2021
BY: RADIUS INNOVATIONS
NAME: TILE SLAB
REV: 7.1 PAGE S5

FLOOR ANCHOR LOCATIONS
(NOTATED FOR TILE FLOOR INSTALLATION)
(WALL ANCHORS SHOWN ON SEPARATE DRAWING)



ANCHOR B QTY NOTES:
PUSH STATION - QTY 2 PER STATION - 4 TOTAL
LUNGE STATION - QTY 2 PER STATION - 12 TOTAL
TALL BEND STATION FOOT HOLD - 4 PER STATION - 4 TOTAL
SHORT BEND STATION FOOT HOLD - 4 PER STATION - 4 TOTAL

ANCHOR C QTY NOTES:
PLYO BOX SYSTEMS - SEE QTY PER BOX BELOW - 24 TOTAL
PB1 - QTY 4 ANCHORS, 1.9N EACH CORNER
PB2 - QTY 4 ANCHORS, 1.9N EACH CORNER
PB3 - QTY 5 ANCHORS, 1.9N EACH HOLE
PB4 - QTY 5 ANCHORS, 1.9N EACH HOLE
PB5 - QTY 2 ANCHORS, 1.9N EACH OPPOSITE CORNER
PB6 - QTY 2 ANCHORS, 1.9N EACH OPPOSITE CORNER
LUNGE STATION 1 - QTY 2 PER STATION - 4 TOTAL
LUNGE STATION 2 - QTY 2 PER STATION - 12 TOTAL
TALL BEND STATION SEAT FRAME - QTY 4 PER STATION - 4 TOTAL
SHORT BEND STATION SEAT FRAME - QTY 4 PER STATION - 4 TOTAL

TEMPLATE NOTES:
IMPORTANT: PAPER TEMPLATES ARE PROVIDED FOR PLYO BOXES AND BEND STATIONS ONLY
PUSH STATION - USE THE EQUIPMENT TO MARK ANCHOR LOCATIONS PER INSTRUCTIONS
PLYO BOX SYSTEMS - USE THE PAPER TEMPLATE (QTY 1 PROVIDED) TO MARK ALL ANCHORS PER PLYO BOX STATIONS - USE THE PAPER TEMPLATE (QTY 1 PROVIDED) TO MARK ALL ANCHORS FOR ALL 6 PLYO BOXES. NOTE QTY OF ANCHORS PER BOX ARE DIFFERENT FOR EACH PAIR.
LUNGE STATION 1 - USE THE EQUIPMENT TO MARK ANCHOR LOCATIONS PER INSTRUCTIONS
LUNGE STATION 2 - USE THE EQUIPMENT TO MARK ANCHOR LOCATIONS PER INSTRUCTIONS
BEND STATIONS - USE THE PAPER TEMPLATE (QTY 1 PROVIDED) TO MARK ALL ANCHORS FOR BOTH BEND STATIONS AND BEND STATION FOOT HOLDS. NOTE THE DIFFERENCES IN LOCATION FOR THE TALL AND SHORT BEND STATION FOOT HOLDS.

ANCHOR NOTES:
1. FIELD VERIFY ALL ANCHOR LOCATION DIMENSIONS AND PATTERNS PRIOR TO DRILLING.
2. DRILL THROUGH TILE FLOOR (1" TILE THICKNESS) WITH THE APPROPRIATE DRILL BIT TO MATCH THE ANCHOR HOLE PER ANCHOR DETAILS DRAWING.
3. SEE ANCHOR DETAILS FOR APPLICABLE CONCRETE EMBEDMENT DEPTH AND HOLE DIAMETER.
4. STAINLESS STEEL PILOT BE USED WHERE SPECIFIED.
5. COMPONENTS SPECIFIED AS HOT-DIP GALVANIZED MAY BE SUBSTITUTED WITH 304 SS COMPONENTS.
6. WHEN INSTALLING ANCHORS, TAKE CARE TO USE THREAD PROTECTORS TO PREVENT THREAD DAMAGE

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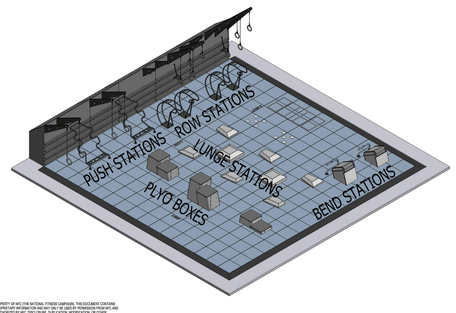
SAN FRANCISCO, CA

DATE: 3/15/2021
BY: RADIUS INNOVATIONS
NAME: TILE SLAB
REV: 7.1 PAGE S6

FITNESS COURT EQUIPMENT ARRANGEMENT



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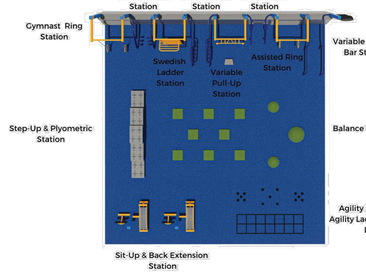
SAN FRANCISCO, CA

DATE: 3/15/2021
BY: RADIUS INNOVATIONS
NAME: TILE SLAB
REV: 7.1 PAGE S7

GameTime
A PLAYCORE Company
gametime.com
800.235.2440



Outdoor Fitness Studio Stations

Sit-Up Bench & Back Extension
1. Sit on sit-up bench with knees bent and feet under the support bar.
2. Place arms across chest, lean back until your back is just off the bench.
3. Return slowly to starting position and repeat.

Variable Press
1. Grip bar in desired hand location with body straight and feet behind you in plank position.
2. Keeping arms close to body, bend arms to lower body until chest is slightly above bar and elbows are parallel with your torso.
3. Push upward using arms, returning to starting position and repeat.

Cardio Step Station
1. Stand facing agility box feet positioned 6" away from the box.
2. Beginning with the right foot, quickly step one foot after the other onto the box and back down.
3. Continue for 30 seconds then repeat switching lead foot.

Balance Ball Station
1. Stand with feet securely on Balance Ball.
2. Slowly bend knees, while extending buttocks to rear, and lower body into squatting position until back of thigh is parallel with ground.
3. Slowly stand to return body to starting position and repeat.

Variable Row Station
1. With palms facing outward grip bar in desired hand location.
2. Place feet on the ground in front, keeping abdominals tight and body in a straight line.
3. From suspended position, use arms to move your body until your chest touches the bar.
4. Hold your chest to bar for a 2-count. Slowly return to the previous position and repeat.

Gymnast Rings
1. Stand between rings and grasp one ring with each hand.
2. Using arms, raise your body until arms are straight and feet are off the ground with bent knees.
3. Keeping movement controlled and steady, slowly lower body by bending at the elbows and maintaining shoulders close to your sides until shoulder are almost even with hands.
4. Slowly return to straight arm position and repeat.

Assisted Ring Station
1. Stand between rings and grasp one ring with each hand.
2. Using arms, raise your body until arms are straight and feet are off the ground with bent knees.
3. Keeping movement controlled and steady, slowly lower body by bending at the elbows and maintaining shoulders close to your sides until shoulder are almost even with hands.
4. Slowly return to straight arm position and repeat.

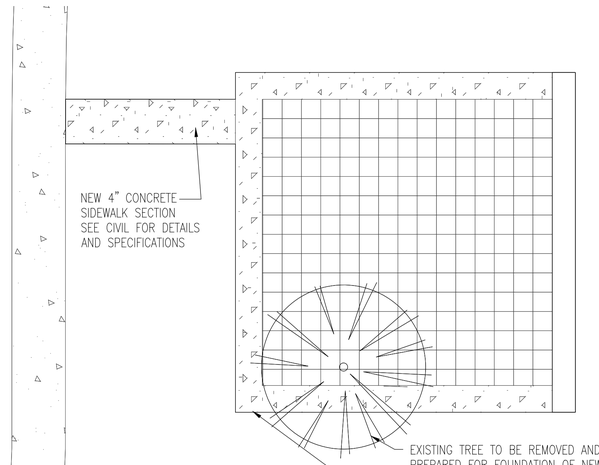
Swedish Ladder
1. Stand with back toward Swedish ladder and both arms extended at arm's length overhead.
2. Using a wide or medium grip, grasp the bar and position legs straight down with the pelvis rolled slightly backward.
3. Raise legs until the torso makes a 90-degree angle with legs, return to starting position and repeat.

Knee-Lift Dip Station
1. Stand with feet on foot support with back against the backrest.
2. Place forearms on arm pads and your hands on grip handles.
3. Bring knees to waist level or higher and hold for a 5-count.
4. Return slowly to starting position and repeat.

Variable Pull-Up Station
1. Grip bar in desired hand location.
2. Using arms pull body upward until shoulders are level with the bar.
3. Slowly return your body to starting position and repeat.

Step Up Platforms (12", 18" and 24")
1. Stand facing plyometric box with both feet on ground and shoulder width apart.
2. Bend knees and jump upward toward the center of plyometric box, landing with knees bent.
3. Slowly stand then return your body to starting position and repeat.

Plyometric Station
1. Stand facing Plyometric Box with both feet on ground and shoulder width apart.
2. Bend knees and jump upward toward center of Plyometric Box landing with knees bent.
3. Slowly stand then return body to starting position and repeat.



ADD ALT #01 – CONSTRUCT NEW FITNESS CENTER
"NATIONAL FITNESS CENTER" MODEL: FITNESS COURT, SHOWN – BASIS OF DESIGN
REFERENCE STRUCTURAL DESIGN FOR FOUNDATION DESIGN & SPECIFICATIONS
FOUNDATION PER MANF SPECIFICATIONS

APPROVED ALTERNATE, NOT SHOWN:
"GAMETIME" MODEL: 6697SP FOR HACKMEYER PARK, CITY OF MOBILE
FOUNDATION PER MANF SPECIFICATIONS

1

NOTES

1. APPROVED OUTDOOR FITNESS CENTER MANUFACTURES ARE AS FOLLOWS:
   A. NATIONAL FITNESS CAMPAIGN – BASIS OF DESIGN
   B. GAMETIME – "TRAINING CENTER MODEL – 6697SP FOR HACKMEYER PARK, CITY OF MOBILE" – APPROVED

NOTE: PRIOR TO BID, CONTRACTOR IS REQUIRED TO SUBMIT FOR PRE-APPROVAL, THE PRODUCT DATA FOR THE MODEL TO BE INCLUDED IN BID.

1

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

STATE OF ALABAMA
KARRIE K. MAURIN
7646
MAURINARCHITECTURE
SEAL
11/02/22
REGISTERED ARCHITECT

11.02.2022
ADDENDUM 01 – 11.07.21

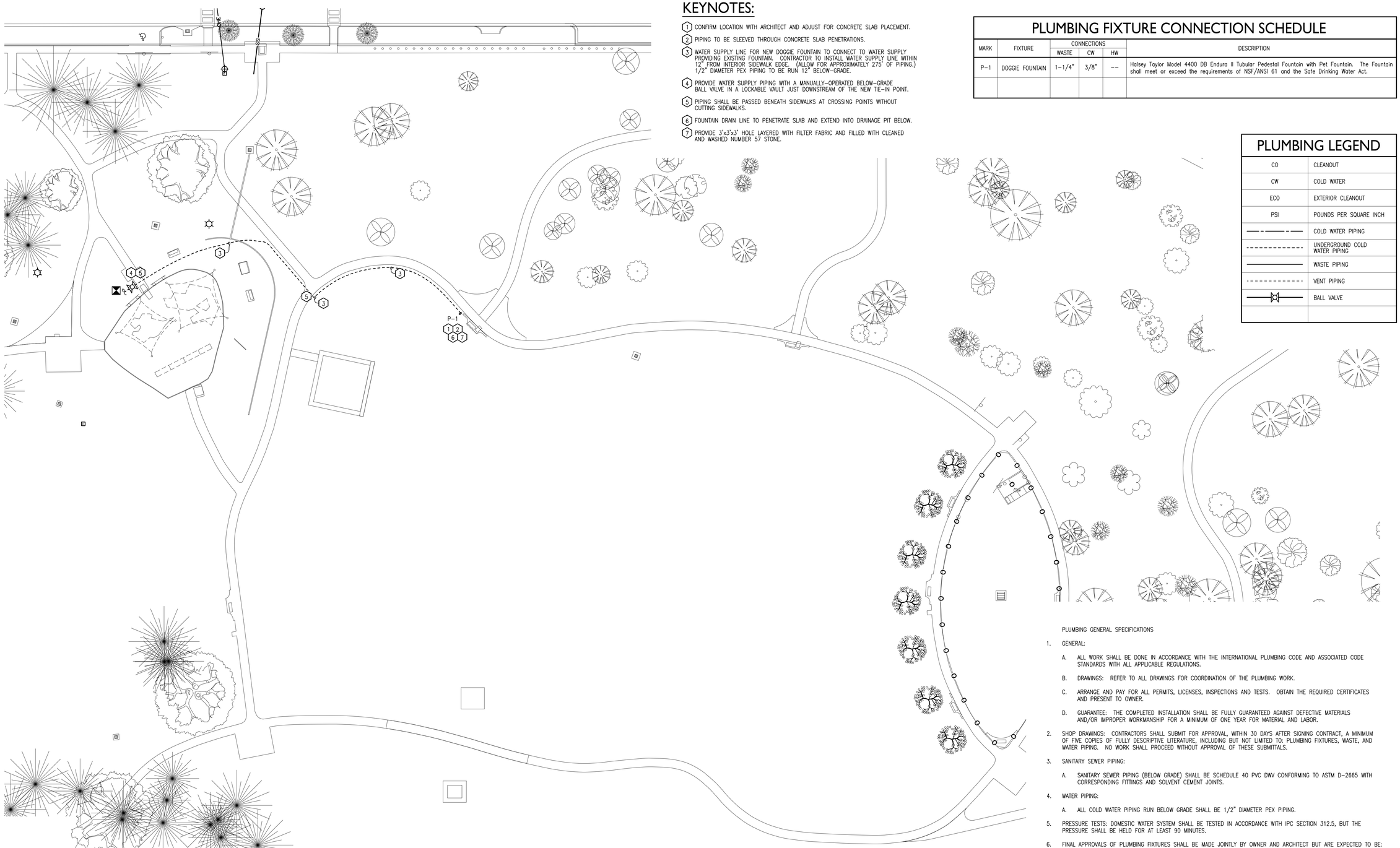
A4.1

ADD ALT #01 - FITNESS CENTER

2 | FITNESS CENTER
SCALE: NOT TO SCALE
BASIS OF DESIGN - NFC #XXXX

3 | FITNESS CENTER
SCALE: NOT TO SCALE
APPROVED ALTERNATE - GAMETIME # 6697SP

1 | DETAIL SITE PLAN - FITNESS CENTER
SCALE: 1/16"=1'-0"



KEYNOTES:

1. CONFIRM LOCATION WITH ARCHITECT AND ADJUST FOR CONCRETE SLAB PLACEMENT.
2. PIPING TO BE SLEEVED THROUGH CONCRETE SLAB PENETRATIONS.
3. WATER SUPPLY LINE FOR NEW DOGGIE FOUNTAIN TO CONNECT TO WATER SUPPLY PROVIDING EXISTING FOUNTAIN. CONTRACTOR TO INSTALL WATER SUPPLY LINE WITHIN 12" FROM INTERIOR SIDEWALK EDGE. (ALLOW FOR APPROXIMATELY 275' OF PIPING.) 1/2" DIAMETER PEX PIPING TO BE RUN 12" BELOW-GRADE.
4. PROVIDE WATER SUPPLY PIPING WITH A MANUALLY-OPERATED BELOW-GRADE BALL VALVE IN A LOCKABLE VAULT JUST DOWNSTREAM OF THE NEW TIE-IN POINT.
5. PIPING SHALL BE PASSED BENEATH SIDEWALKS AT CROSSING POINTS WITHOUT CUTTING SIDEWALKS.
6. FOUNTAIN DRAIN LINE TO PENETRATE SLAB AND EXTEND INTO DRAINAGE PIT BELOW.
7. PROVIDE 3'x3'x3' HOLE LAYERED WITH FILTER FABRIC AND FILLED WITH CLEANED AND WASHED NUMBER 57 STONE.

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	CONNECTIONS			DESCRIPTION
		WASTE	CW	HW	
P-1	DOGGIE FOUNTAIN	1-1/4"	3/8"	--	Halsey Taylor Model 4400 DB Endura II Tubular Pedestal Fountain with Pet Fountain. The Fountain shall meet or exceed the requirements of NSF/ANSI 61 and the Safe Drinking Water Act.

PLUMBING LEGEND

CO	CLEANOUT
CW	COLD WATER
ECO	EXTERIOR CLEANOUT
PSI	POUNDS PER SQUARE INCH
———	COLD WATER PIPING
- - - - -	UNDERGROUND COLD WATER PIPING
———	WASTE PIPING
- - - - -	VENT PIPING
———	BALL VALVE

PLUMBING GENERAL SPECIFICATIONS

1. GENERAL:
   - A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND ASSOCIATED CODE STANDARDS WITH ALL APPLICABLE REGULATIONS.
   - B. DRAWINGS: REFER TO ALL DRAWINGS FOR COORDINATION OF THE PLUMBING WORK.
   - C. ARRANGE AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS AND TESTS. OBTAIN THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
   - D. GUARANTEE: THE COMPLETED INSTALLATION SHALL BE FULLY GUARANTEED AGAINST DEFECTIVE MATERIALS AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR FOR MATERIAL AND LABOR.
2. SHOP DRAWINGS: CONTRACTORS SHALL SUBMIT FOR APPROVAL, WITHIN 30 DAYS AFTER SIGNING CONTRACT, A MINIMUM OF FIVE COPIES OF FULLY DESCRIPTIVE LITERATURE, INCLUDING BUT NOT LIMITED TO: PLUMBING FIXTURES, WASTE, AND WATER PIPING. NO WORK SHALL PROCEED WITHOUT APPROVAL OF THESE SUBMITTALS.
3. SANITARY SEWER PIPING:
   - A. SANITARY SEWER PIPING (BELOW GRADE) SHALL BE SCHEDULE 40 PVC DWV CONFORMING TO ASTM D-2665 WITH CORRESPONDING FITTINGS AND SOLVENT CEMENT JOINTS.
4. WATER PIPING:
   - A. ALL COLD WATER PIPING RUN BELOW GRADE SHALL BE 1/2" DIAMETER PEX PIPING.
5. PRESSURE TESTS: DOMESTIC WATER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH IPC SECTION 312.5, BUT THE PRESSURE SHALL BE HELD FOR AT LEAST 90 MINUTES.
6. FINAL APPROVALS OF PLUMBING FIXTURES SHALL BE MADE JOINTLY BY OWNER AND ARCHITECT BUT ARE EXPECTED TO BE:
   - P-1: Halsey Taylor Model 4400 DB Endura II Tubular Pedestal Fountain with Pet Fountain. The Fountain shall meet or exceed the requirements of NSF/ANSI 61 and the Safe Drinking Water Act.

END OF SECTION.

1 PLUMBING SITE PLAN - NEW WORK

SCALE: 1"=30'-0"

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET, PENSACOLA, FLORIDA 32502, PHONE: (850)434-2661
253 ST. ANTHONY STREET, MOBILE, ALABAMA 36603, PHONE: (251)690-7446

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2
PR-034-21
3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

STATE OF ALABAMA
No. 19948
PROFESSIONAL ENGINEER

11.02.2022

P1.1

PLUMBING SITE PLAN - NEW WORK

DonB, I:\Up to Date 2022 Drawings\22020 - Hackmeyer Park - Maurin Arch_HMY dwgs\22020 P11.dwg 27 OCTOBER 2022 0951

BENCH

APPROXIMATE LOCATION OF EXISTING SECURITY CAMERA POWER POLE AND EQUIPMENT CABINET.

ENERGY LIGHT 20SQ4FDB 20FT DIRECT BURIED POLE WITH POLE TOP CAP. SECURITY CAMERA SHALL BE INSTALLED ON POLE, PROVIDE CAMERA MOUNTING HARDWARE. ROUTE CAMERA CONDUIT UNDERGROUND TO EXISTING PHASE 1 CAMERA SYSTEM.

ENERGY LIGHT 20SQ4FDB 20FT DIRECT BURIED POLE WITH POLE TOP CAP. SECURITY CAMERA SHALL BE INSTALLED ON POLE, PROVIDE CAMERA MOUNTING HARDWARE. ROUTE CAMERA CONDUIT UNDERGROUND TO EXISTING PHASE 1 CAMERA SYSTEM.

KEY NOTES:

1. PROVIDE AVYCON AVC-VHN41FLT/2.8 NETWORK IP CAMERA WITH OPTIONAL AVYCON AVM-EWMTS-W-TL1 & AVM-POM-A1 AS NECESSARY FOR POLE MOUNTED CAMERA. VERIFY MOUNTING HEIGHT WITH THE OWNER PRIOR TO ORDERING POLE OR INSTALLING CAMERA.

1 ELECTRICAL SITE PLAN - NEW WORK

SCALE: 1"=40'-0"

MAURIN ARCHITECTURE P.C.
601 ST. ANTHONY STREET MOBILE, ALABAMA 36603
251 690 7460 INFO@MAURINARCH.COM

HACKMEYER PARK - IMPROVEMENTS PHASE 2

PR-034-21

3810 CONWAY DRIVE SOUTH, MOBILE, ALABAMA 36608

ALABAMA LICENSED 11/02/22 No. 34807 PROFESSIONAL ENGINEER THOMAS VARGO

11.02.2022

E1.1

ELECTRICAL SITE PLAN - NEW WORK

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET PENSACOLA, FLORIDA 32502 PHONE: (850)434-2661
253 ST. ANTHONY STREET MOBILE, ALABAMA 36603 PHONE: (251)690-7446

RDH> H:\Jobs_Active\22020 Hackmeyer Phase 2\22020E11.dwg 03/04/22 11:34

PROJECT MANUAL

FOR

JAMES M. SEALS, JR. PARK – ATHLETIC RESTROOM/CONCESSION AND FIELD IMPROVEMENTS AND HACKMEYER PARK – IMPROVEMENTS PHASE 2

Mobile, Alabama

Project #PR-041-20 AND PR-034-21

November 2, 2022

Maurin Architecture, PC
601 South Saint Anthony Street
Mobile, Alabama 36603

City of Mobile
Architectural Engineering Department
205 Government Plaza
P.O. Box 1827
Mobile, Alabama 36633-1827

Bid Date: December 7, 2022 **Set Number:_____**

PLACEHOLDER
FOR CARDSTOCK SECTION DIVISION TAB
TO BE LABELED,
“PART A”

SECTION 00001 SEALS PAGE

END OF SECTION

INDEX TO DOCUMENTS

SECTION NO. DOCUMENT NAME

SPECIFICATIONS: PART A

BIDDING AND CONTRACT REQUIREMENTS:

Section 00002 Seal Page
Section 00010 Index to Documents
Section 00100 Invitation to Bid
Section 00200 Instructions to Bidders – AIA Document A701
Section 00300 Supplementary Instructions to Bidders
Section 00400 Bid Form
Sales Tax Form C-3A
City of Mobile Subcontracting and Major Supplier Plan
Section 00500 Standard Form of Agreement Between Owner and Contractor – AIA Document A101 - 2007
Section 00600 Bonds, Certificates and Affidavits
Performance Bond (Owner's modified form)
Labor and Material Payment Bond (Owner's modified form)
E-verify Documentation (Sample)
Application and Certification for Payment - AIA Document G702 and AIA Document G703
Certificate of Substantial Completion – AIA Document G704-2000
Contractor's Affidavit of Payment of Debits & Claims - AIA Document G706
Contractor's Affidavit of Release of Liens - AIA Document G706A
Consent of Surety to Final Payment - AIA Document G707
W-9 Request for Taxpayer Identification Number and Certification and City of Mobile Vendor Information Form
City of Mobile DBE Utilization Report
Section 00700 General Conditions of the Contractor for Construction - AIA Document A201 - 2007

SPECIFICATIONS: PART A

DIVISION 1: GENERAL REQUIREMENTS

Section 01010 Summary of the Work
Section 01210 Allowances
Section 01220 Unit Prices
Section 01230 Alternative Bid Items
Section 01310 Project Management & Coordination
Section 01320 Construction Progress Documentation

Section 01330 Submittal Procedures
Section 01635 Substitution Procedures
Section 01700 Execution Requirements
Section 01710 Closeout Procedures
Section 01782 Operations and Maintenance Manuals
Section 01785 Project Record Documents

END OF INDEX FOR PART A

SPECIFICATIONS: FOR JAMES M. SEALS, JR. PARK - PART B

SECTION NO. BIDDING AND CONTRACT REQUIREMENTS & DIVISION 1 GENERAL REQUIREMENTS – (REFER TO PART A)

DIVISION 2: **SITE CONSTRUCTION**
Section 02361 Termite Control
Section 02400 Demolition and Structure Moving
Section 02525 Concrete Curbs and Walk

DIVISON 3: **CONCRETE**
Section 03365 Concrete Floor Sealer

DIVISON 4: **MASONRY**
Section 04200 Unit Masonry

DIVISON 5: **METALS**
Section 05500 Metal Fabrications

DIVISON 6: **WOOD AND PLASTIC**
Section 06100 Rough Carpentry
Section 06415 Concrete Countertops

DIVISON 7: **THERMAL AND MOISTURE PROTECTION**
Section 07260 Vapor Retarders
Section 07310 Shingle Roofing
Section 07620 Sheet Metal Flashing and Trim
Section 07920 Joint Sealants

DIVISON 8: **DOORS AND WINDOWS**
Section 08110 Non-Security Steel Doors and Frames
Section 08333 Overhead Coiling Counter Doors
Section 08711 Door Hardware

DIVISON 9: **FINISHES**

	Section 09670	Resinous Flooring
	Section 09900	Paints and Coatings
DIVISON 10:	**SPECIALTIES**	
	Section 10172	Toilet Compartments & Underlavatory Shields
	Section 10280	Toilet Accessories
	Section 10431	Signs
	Section 10435	Defibrillators and Cabinets
	Section 10525	Fire Extinguisher
DIVISON 11:	**EQUIPMENT (Not Used)**	
DIVISON 12:	**FURNISHINGS (Not Used)**	
DIVISON 13:	**SPECIAL CONSTUCTION (Not Used)**	
	Section 13930	Bleachers
DIVISON 14:	**CONVEYING SYSTEMS (Not Used)**	
DIVISON 15:	**MECHANICAL**	
	Section 15100	General Requirements for Mechanical Work
	Section 15200	Testing and Balancing
	Section 15400	Plumbing
	Section 15800	Heating, Ventilating and Air Conditioning Systems
DIVISON 16:	**ELECTRICAL (Not Used)**	

END OF INDEX - JAMES M. SEALS, JR. PARK - PART B

SPECIFICATIONS: FOR HACKMEYER PARK IMPROVEMENTS PHASE 2 – PART C

SECTION NO.	BIDDING AND CONTRACT REQUIREMENTS & DIVISION 1 GENERAL REQUIREMENTS – (REFER TO PART A)
DIVISION 2:	**SITE CONSTRUCTION**
	Section 02361 Termite Control
DIVISON 3:	**CONCRETE (Not Used)**
DIVISON 4:	**MASONRY**
	Section 04200 Unit Masonry
DIVISON 5:	**METALS (Not Used)**
DIVISON 6:	**WOOD AND PLASTIC**

Section 06100 Rough Carpentry

DIVISON 7: THERMAL AND MOISTURE PROTECTION
Section 07920 Joint Sealants

DIVISON 8: DOORS AND WINDOWS (Not Used)

DIVISON 9: FINISHES
Section 09000 Playground Protective Surfacing

DIVISON 10: SPECIALTIES
Section 10431 Signs

DIVISON 11: EQUIPMENT (Not Used)

DIVISON 12: FURNISHINGS
Section 12870 Park Furnishings

DIVISON 13: SPECIAL CONSTUCTION (Not Used)

DIVISON 14: CONVEYING SYSTEMS (Not Used)

DIVISON 15: MECHANICAL (Not Used)

DIVISON 16: ELECTRICAL (Not Used)

END OF INDEX – HACKMEYER PARK IMPROVEMENTS PHASE 2 – PART C

SECTION 00100
INVITATION TO BID

You are invited to submit a sealed bid for construction of the following facility:

PROJECT NAME:	James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements
PROJECT LOCATION:	540 Texas Street, Mobile, Alabama 36603
PROJECT NUMBER:	PR-041-20

and

PROJECT NAME:	Hackmeyer Park – Improvements Phase 2
PROJECT LOCATION:	3810 Conway Drive South, Mobile, Alabama 36608
PROJECT NUMBER:	PR-034-21

1 BID DATE:

A. Sealed Bids will be received and clocked in until 2:15 PM local time, Wednesday, the 7th day of December, 2022. Bidders shall insert sealed Bids into a receptacle, marked "City of Mobile Bids", located in the elevator lobby outside the office of the City Clerk Office, 9th Floor South Tower, Government Plaza, 205 Government Street, Mobile, Alabama 36602.

B. All Bids not clocked in at the City Clerk's Office prior to the time specified, or Bids received after the specified time, will be automatically rejected and returned immediately, unopened.

C. Bids will be publicly opened and read at 2:30 PM local time, in the Atrium Lobby of Government Plaza.

2 SPECIFICATIONS AND DRAWINGS:

A. Specifications and Drawings are on file and may be examined and obtained from the following location: https://www.cityofmobile.org/bids/

B. Bidders shall use complete sets of Bid Documents in preparing their bid. Neither the Owner nor Architect/Engineer assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.

C. **Addenda will be issued via e-mail to all Pre-Bid Conference attendees.**

D. **This is a tax exempt project and shall be certified by the requirements of the Alabama Department of Revenue. Bidders shall NOT include sales and use taxes with their bid amounts. Bidders shall complete the Sales Tax Form C-3A and include it as an attachment to their Bid Form (see Section 00400).**

F. Product Substitutions must be pre-approved before the bid (see Section 01635 for requirements).

G. BID SURETY: Required on Bids $10,000.00 or more

A. A Cashier's Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond payable to Owner, City of Mobile, in the amount of 5% of the Base Bid, but in no event more than $10,000.00 is required to accompany Bid.

B. Bid Bond must be issued by a Surety licensed to do business in the State of Alabama. Bidder shall require the attorney in fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

C. No Bid may be modified, withdrawn, or canceled for a period of sixty (60) days after the time designated above for receipt of bids.

D. The City of Mobile will have sixty (60) days from the bid opening date to award contract.

3 SURETY QUALIFICATIONS:

A. A Surety authorized to do business in the State of Alabama must issue Bonds.

B. If the Base Bid is $50,000 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.

4 IRREGULARITIES AND REJECTION:

A. The City of Mobile reserves the right to waive irregularities in the Bid and in Bidding, and to reject any or all Bids.

5 BIDDER QUALIFICATIONS:

A. Bids for Work costing $50,000 or more must be licensed pursuant to current Alabama law and of classifications compliant with the State of Alabama Licensing Board for General Contractors. Note that if the contract amount is $10,000 or greater, both a Performance Bond and a Labor and Material Payment Bond shall be required. **Before Bidding, Contractor shall verify their license classification of their General Contractors license with the State of Alabama Licensing Board for General Contractors to verify classification is acceptable to perform 51% of the Scope of Work.**

B. In case of a joint venture of two or more Contractors, the amount for the bid shall be within the maximum bid limitations as set by the State of Alabama Licensing Board for General Contractors of at least one of the partners to the joint venture.

6 NON-RESIDENT CONTRACTORS:

A. Except for contracts funded in whole or part with funds received from a federal agency, preference shall be given to resident Contractors on the same basis as the nonresident Contractor's state awards contracts to Alabama Contractors bidding in similar circumstances.

B. Nonresident Bidders shall, prior to submitting a bid, be registered with the Alabama Secretary of State and the Alabama Department of Revenue. Provide the Secretary of State Business "Entity ID Number" on the Bid Form in the space provided.

7 PRE-BID CONFERENCE:

A. A Pre-Bid Conference shall be held on November 9, 2022, **starting at James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements, 540 Texas Street**, **Mobile, Alabama at 9:00 AM local time, followed by Hackmeyer Park Improvements - Phase 2, 3810 Conway Drive South, Mobile, Alabama.** The conference will include a walkthrough of the site locations. A representative of the Bidder is encouraged to be present at the meeting. However, if no representative can be present in person, the Bidder may contact the Project Manager at 251-508-7752, at least 24 hours prior to the meeting, in order to coordinate attendance of the meeting by conference call. Bidders are encouraged to participate in the Pre-Bid Conference, visit the site prior to submitting a Bid and required to include all costs associated with the project in their Bids.

B. Minutes of this conference will be made as an Addendum for the project.

8 BID SUBMITTAL:

A. Bids must be submitted on copies of the Bid Forms furnished in the bidding documents.

B. Bid, with Bid Security, Sales Tax Form C-3A, City of Mobile Subcontracting and Major Supplier Plan and other supporting data specified, shall be contained in a sealed, opaque envelope, approximately 9x12 inches or larger and be marked on the outside with the words **"SEALED BID FOR JAMES M. SEALS, JR. PARK – ATHLETIC RESTROOM/CONCESSION AND FIELD IMPROVEMENTS - PROJECT NUMBER: PR-041-20 AND HACKMEYER PARK – IMPROVEMENTS PHASE 2 – PROJECT NUMBER PR-034-21".**

C. The Bid envelope shall be clearly addressed to the Owner as indicated on the Bid Form and include the bid date, the name, address and State License number and classification of the Bidder issued by the State of Alabama Licensing Board for General Contractors.

D. All Bids of $50,000 or more must include the bidder's State of Alabama General Contractor's License information written on the outside of the bid envelope. Any bid submitted without such license information may be rejected and returned to the bidder unopened.

E. In addition, in large letters on both front and back of envelope, write the following: **DO NOT OPEN UNTIL TWO-THIRTY PM, DECEMBER 7, 2022**.

F. For a bid to be valid it shall be delivered at designated location prior to time and date for receipt of Bids indicated in INVITATION TO BID, or prior to any extension thereof issued to Bidders. After that time no Bid will be received or withdrawn.

G. When sent by mail, preferably special delivery, express service, or registered mail, the sealed Bid, marked as indicated above, shall be enclosed in another envelope for mailing such that the exterior mailing container or envelope may be opened without

revealing the contents of the Bid. It is the Contractors responsibility to assure delivery of the bid to the City Clerk's Office prior the time and date established.

9 EQUAL OPPORTUNITY:

A. The City of Mobile, Alabama is an Equal Opportunity Employer and requires that all Contractors comply with the Equal Employment Opportunity laws and the provisions of the Bid Documents in this regard.

B. The City of Mobile also encourages and supports the utilization of Minority Business Enterprises on these and all other publicly solicited Bids, and shall be in compliance with the City of Mobile's Minority Utilization Plan as adopted by the City Council.

C. Contractor shall provide an appropriately completed copy of the "City of Mobile Subcontracting and Major Supplier Plan" in the envelope with their Bid Form. Form shall document DBE Subcontractors participating in the project and, should the total % of DBE participation not meet the 15% minimum, all efforts to obtain DBE Subcontractors shall be documented on or attached to the DBE Form when submitted. During construction, contractors are required to submit a "DBE Utilization Report" with every Pay Application.

D. Contractors should contact the City of Mobile, Supplier Diversity Manager for assistance with DBE Subcontractor information and any questions regarding the DBE Compliance Forms. Contact Archnique Kidd at 251-208-7967.

E. A Directory of DBE Vendors can be found at the following location: https://workwith.cityofmobile.org/

10 ADDITIONAL BIDDING PROCEDURES:

A. Refer to the complete information in the Bid Documents prior to submitting a bid. Additional Bidding Procedure information is contained therein, particularly in the specification Section 00200 "Instructions to Bidders - AIA Document A701" and in the specification Section 00300 "Supplementary Instructions to Bidders".

12 STATE OF ALABAMA IMMIGRATION ACT

"The State of Alabama, under the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2011-535, Alabama Code Section 31-13-1, et. Seq., requires:

A. That the Contractor shall be enrolled in the E-Verify Program, shall participate in that Program during the performance of the contract, and shall verify the immigration status of every employee who is required to be verified, according to the applicable federal rules and regulations; and

B. That it will attach to the contract the company's documentation of enrollment in E-Verify.

C. The subcontractor must also enroll in the E-Verify Program prior to performing any work on the contract and shall attach to its sworn affidavit

documentation establishing that the subcontractor is enrolled in the E-Verify Program.

13 PUBLIC CONTRACTS WITH ENTITIES ENGAGING IN CERTAIN BOYCOTT ACTIVITIES

A. By signing this contract, Contractor further represents and agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

END OF SECTION 00100

SECTION 00200
INSTRUCTIONS TO BIDDERS

PART 1 GENERAL

A. This section includes the INSTRUCTIONS TO BIDDERS, AIA Document A701 to be utilized with the Owner's most recent modifications and which shall be used in conjunction with the entire Bid Documents and Section 00300 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS for this project.

AIA® Document A701™ – 2018

Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements
540 Texas Street
Mobile, Alabama 36603
and
Hackmeyer Park – Improvements Phase 2
3810 Conway Drive South
Mobile, Alabama 36608

THE OWNER:
(Name, legal status, address, and other information)

City of Mobile
PO Box 1827
Mobile, Alabama 36633-1827

THE ARCHITECT:
(Name, legal status, address, and other information)

Maurin Architecture, PC
601 South St. Anthony Street
Mobile, Alabama 36603

TABLE OF ARTICLES

1 DEFINITIONS

2 BIDDER'S REPRESENTATIONS

3 BIDDING DOCUMENTS

4 BIDDING PROCEDURES

5 CONSIDERATION OF BIDS

6 POST-BID INFORMATION

7 PERFORMANCE BOND AND PAYMENT BOND

8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

9 NONDISCRIMINATION

10 USE OF DOMESTIC PRODUCTS

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner's Instructions to the Architect, Parts A and B will be completed prior to using this document.

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User Notes: (1433945961)

11 PREFERENCE TO RESIDENT CONTRACTORS

12 PRE-BID REQUIREMENTS

13 POST-BID REQUIREMENTS

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User Notes: (1433945961)

ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents. A Bidder must be licensed by the State Licensing Board for General Contractors if the amount for the Contract exceeds the amount established by said Board.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work. A Sub-bidder performing Work must be licensed by the State Licensing Board for General Contractors if the Sub-bidders' contract amount exceeds that established by said Board.

1.10 A non-resident Bidder or Sub-bidder is one who

a. Is neither organized nor existing under the laws of the State of Alabama
b. nor maintains its principal place of business in the State of Alabama.

A non-resident contractor who has maintained a permanent branch office within the State of Alabama for at least five (5) continuous years shall not thereafter be deemed to be a non-resident contractor so long as such contractor continues to maintain a branch office within Alabama.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

.1 the Bidder has read and understands the Bidding Documents;

.2 the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;

.3 the Bid complies with the Bidding Documents;

.4 the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;

.5 the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and

.6 the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

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§ 2.2 The Bidder is licensed by the State Licensing Board for General Contractors and the amount Bid does not exceed the Bid Limit stipulated in the Bidder's License and by the City of Mobile.

§ 2.3 Each and every Contractor belonging to or comprising a part of any entity that is bidding as a joint venture or association involving two or more contractors is licensed by the State Licensing Board for General Contractors and that the amount Bid does not exceed the Bid limit stipulated in at least one of their licenses.

§ 2.4 Any non-resident Bidder is authorized by the Secretary of State of Alabama and is registered with Alabama Department of Revenue to transact business in Alabama.

§ 2.5 Joint Ventures or Associations of Contractors, whether the same are Bidders or Subcontractors of Bidders, will remain in existence until all insurance and warranty requirements for the Project have been fulfilled.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.
(Paragraphs deleted)
§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least five (5) calendar days prior to the date for receipt of Bids.
(Paragraphs deleted)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.2.4 The Contract Drawings and Specifications are intended to cooperate and agree, but should conflicts or difference be found to exist between the requirements within either and clarification has not been obtained in accordance with the above procedure prior to Bidding, then the most costly and/or restrictive interpretation by the decision of the Architectural Engineering Department Director will be final.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

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§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least fifteen (15) calendar days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.3.6 See Division One Section "Substitution Procedures", if included in Specification.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Paragraphs deleted)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than two (2) days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents. No bid will be considered unless made out and submitted on a copy of the Bid Form, Section 00410. Additional Bid Forms will be furnished to prospective Bidders upon request.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

Unit Prices: Supply requested Unit Prices where shown on the Bid Form, Such Unit Prices shall be used to adjust the Contract Amount where the quantities shown on the Drawings and/or Specifications do not reflect amounts required for

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completion of the work. Where Completion of the Work requires quantities in excess of those shown on the drawings and specifications, unit prices shall be used to compute an extra payment to the Contractor. Where completion of work required quantities less than those on the Drawings and/or specifications, unit prices shall be used to compute a credit to the Owner.

Contingency Allowance: As shown on the Bid Form, Contractor shall add the amount of the contingency allowance to the Base Bid to derive the Total Bid. The contingency allowance shall cover cost of material, labor, overhead, profit and other expenses for complete installation of items of additional work as required for a complete functional project. The contingency allowance shall be used to fund unforeseen conditions not covered in the construction documents and shall be subject to the provisions of change orders. Upson the completion of work any unused portion of the contingency allowance shall be credited to the Owner by change order.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security if so required in the Bidding Documents:
(Insert the form and amount of bid security.)

The Bidder shall provide a Bid Security in the form of a cashier's check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond. Bid Security is required for bids exceeding $10,000.00. Bid Security shall be in the amount of 5% of the TOTAL BID, but in no event more than $10,000.00.

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected.

§ 4.2.5 Bonds must be issued by a Surety authorized to do business in the State of Alabama. A Performance Bond and a Labor and Material Payment Bond are required for projects exceeding $10,000.00. If the project cost is $50,000.00 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:
(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

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Submission of Bid shall be as stated in Section 00100, Invitation to Bid, Paragraph 9, titled "Bid Submittal".

(Paragraph deleted)

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted and will be returned unopened.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security, if required, shall be in an amount sufficient for the Bid as resubmitted.

(Paragraphs deleted)

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

§ 5.3.2 The Owner shall accept Alternates in the order listed on the Bid Form to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

(Paragraphs deleted)

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, within three (3) calendar days or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

.1 a designation of the Work to be performed with the Bidder's own forces;

.2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

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.3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

.4 The name of the Project Superintendent and Project Manager together with the resume of qualifications of each;

.5 Nonresident Contractor shall submit a letter from an attorney as required by Subparagraph 11.1.2 below and;

.6 Engineering Firm or Testing Laboratory for testing as specified.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

§ 6.3.5 The Contractor shall, within ten (10) calendar days of receiving Contract Forms for signature, furnish to the Owner the following items, along with the signed contract, or the Bid Security will be forfeited automatically without further delay:

.1 A Signed Construction Contract;
.2 Performance Bond and Labor and Material Payment Bond (originals) on all Bids over $10,000.00;
.3 Certificate of Insurance and copy of Builder's Risk Policy (original), as identified in the specifications;
.4 Schedule of Values; and
.5 Federal Immigration Law Compliance: E-Verify enrollment documentation.

§ 6.3.6 The Bid Check or Bond of the three (3) lowest Bidders will not be returned until after the Construction Contract is executed.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.

§ 7.1.4 A Surety authorized to do business in the State of Alabama shall issue Performance Bond and Labor and Material Payment Bond, as required by the Contract Documents. If the project cost is $50,000.00 or more, the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc.

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§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than ten (10) calendar days from receiving the Construction Contract forms for signature.

§ 7.2.2 The bonds shall be written on City's Performance Bond and Labor and Material Payment Bond forms.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment Is a Stipulated Sum.

§ 8.1.1 AIA Document A101, Standard Form of Agreement Between Owner and Contractor where the Basis of Payment is a stipulated sum will be edited electronically and include the standard signatures as required by the City of Mobile.

ARTICLE 9 NONDISCRIMINATION

§9.1.1 Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities. Contractor shall provide a completed copy of the City of Mobile Subcontracting and Major Supplier Plan with the Bid Form, for bids of $250,000.00 or greater.

ARTICLE 10 USE OF DOMESTIC PRODUCTS

§ 10.1.1 Section 39-3-1 Code of Alabama provides that the Contractor agrees, in the execution of this contract, to use material supplies and products manufactured, mined, processed or otherwise produced in the United States or its territories, if available at reasonable prices, and that breach of this agreement by the Contractor shall result in the assessment of liquidated damages in an amount not less than $500 nor more than 20 percent of the gross amount of the contract price.

§ 10.1.2 Section 39-3-4, Code of Alabama provides that the Contractor for a municipal construction project, financed by the State of Alabama or any political subdivision thereof, is required to use steel produced within the United States. If the Contractor violates the requirement to use domestic steel, this contract will automatically be revoked and the contractor shall not be entitled to any set-off or recoupment for labor or materials used up to the time of revocation.

ARTICLE 11 PREFERENCE TO RESIDENT CONTRACTORS

§ 11.1.1 Except for contracts funded in whole or in part with funds received from a federal agency, preference shall be given to Alabama resident contractors, and a nonresident bidder domiciled in a state having laws granting preference to local contactors shall be awarded the contracts only on the same basis as a the nonresident bidder's state awards contracts to Alabama contractors bidding under similar circumstances. In the letting of public contracts in which any state, county or municipal funds are utilized, resident contractors in Alabama, be they corporations, individuals or partnerships, are to be granted preference over nonresidents in awarding of contracts in the same manner and to the same extent as provided by the laws of the state of domicile of the nonresident.

§ 11.1.2 A successful nonresident bidder shall include in his post bid submittals a written opinion of an attorney at law licensed to practice law in such nonresident bidders' state of domicile, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that state in the letting of any or all public contracts.

ARTICLE 12 PRE-BID REQUIREMENTS

§ 12.1 STATE OF ALABAMA CONTRACTORS LICENSE

§ 12.1.1 If the Project total bid amount is $50,000 or more, a license issued by the State of Alabama Licensing Board for General Contractors is required prior to submitting a bid and the licensed classification and bid limits must cover the type

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of work in this project. See Invitation to Bid, Section 6 "Bidder Qualifications".

§ 12.2 A NONRESIDENT BIDDER

§ 12.2.1 Every bidder shall be registered with the Department of Revenue and with the Alabama Secretary of the State prior to bidding. The Secretary of State's "Business Entity ID" registration number shall be included on the bid form.

ARTICLE 13 POST-BID REQUIREMENTS

§ 13.1 CITY CONTRACTOR'S LICENSE

13.1.1 A City of Mobile Contractors License is required and must be current before the Contractor signs the Contract. Contractor must qualify and post $10,000.00 Surety Bond with the Land Use/Code Administration Department before a Contractors License will be issued by the Revenue Department. Information on the City Contractors License may be obtained by writing or calling:

Land Use/Code Administration
P. O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251.208.7421

Revenue Department
P. O. Box 1827
Mobile, Alabama 36633-1827
251.208.7461

13.2 E-VERIFY DOCUMENTATION

§ 13.2.1 The Contractor agrees that it shall comply with all of the requirements of the State of Alabama Immigration Law (Act. No. 2011-535 as amended by Act. No. 2012-491, Alabama Code (1975) Section 31-13-1, et. Seq., See Section 31-13-9), and the provisions of said Law, including all penalties for violation thereof, are incorporated therein.

13.3 PUBLIC CONTRACTS WITH ENTITIES ENGAGING IN CERTAIN BOYCOTT ACTIVITIES

§ 13.3 The Contractor represents and agrees that it is not currently engaged in, nor will engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

(Table deleted)(Paragraphs deleted)(Paragraphs deleted)

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SECTION 00300

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

THE ATTENTION OF ALL BIDDERS IS CALLED TO THE FOLLOWING INSTRUCTIONS AND CONDITIONS:

I. BIDDING DOCUMENTS:

A. Bidders may obtain complete sets of Bid Documents and Specifications (Project Manual) from the Department of Architectural Engineering as listed in the Invitation to Bid.

B. Bidders shall use the complete set of documents in preparing their bid. The City of Mobile assumes no responsibility for errors or misinterpretations resulting from use of an incomplete set of documents.

Bidders shall use the complete set of documents in preparing their bid. Neither the City of Mobile nor the Engineer (Architect) assume responsibility for errors or misinterpretations resulting from use of an incomplete set of documents.

2. INTERPRETATION OF BID DOCUMENTS:

A. Bidders shall carefully study and compare the Bidding Documents and compare various components of the Bidding Documents with each other, encouraged to examine the site and local conditions and shall at once report to the Project Manager any errors, inconsistencies or ambiguities discovered.

B. Bidders requiring clarification or interpretation of the Bidding Documents shall make a written request to the Project Manager by 3:00 PM at least ten (10) calendar days prior to the date for receipt of Bids. E-mail requests are required and should be addressed to karrie@maurinarch.com. Interpretations, corrections and changes to the Bidding Documents will be made by a formal, written Addendum. Interpretations, corrections and changes to the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely on them.

C. Any discrepancy not resolved prior to Bidding shall be bid by the Contractor to provide for the most costly and/or restrictive interpretation of the documents.

3. BIDDING PROCEDURES:

A. No Bid will be considered unless made out and submitted on a copy of the Bid Form as set forth by the Bid Documents.

B. All blanks on the Bid Form shall be legibly executed in a non-erasable medium.

C. Sums shall be expressed in both words and figures. In case of discrepancy, the amount written in words shall govern.

D. Interlineations, alterations and erasures must be initialed by the signer of the Bid.

E. All requested Alternates, Unit Prices and Allowances shall be bid as indicated on the Bid Form and the Bid Documents.

F. Addenda shall be considered as a part of the Bid Documents and those issued prior to the opening of Bids shall be acknowledged on the Bid Form and any adjustment in cost shall be included in the Contract Sum.

4. BID SECURITY:

A. A Cashier's Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or Bid Bond payable to Owner, City of Mobile, in the amount of 5% of the Base Bid, but in no event more than $10,000.00, must accompany bid. By submitting a Bid Security, the Bidder pledges to enter into a Contract with the City of Mobile on the terms stated in the Bid, and will, if required, furnish bonds covering faithful performance of the Contract and required insurance certificate. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds or insurance or any other required document, the amount of the Bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.

B. Bid Bond shall be valid for a minimum of sixty (60) days from the date of the Bid. The Owner reserves the right to retain the security of all Bidders until the successful Bidder enters into the Contract or until (60) days after Bid opening, whichever is sooner.

C. Bonds must be issued by a Surety licensed to do business in the State of Alabama. If the project cost is more than $50,000.00 the Surety must have a minimum rating of A/Class VI as reported by the latest issue of Best's Key Rating Guide Property-Casualty published by Alfred M. Best Company, Inc.

D. Power of Attorney is required for all Bonds.

E. The Surety company shall be required to execute AIA Document G-707, "Consent of Surety to Final Payment" prior to Final Payment of retainage being made to the Contractor.

5. EXAMINATION OF DOCUMENTS AND SITE WORK:

A. Before submitting a Bid, Bidders should carefully examine the Bid Documents, visit the site of the Work, including attendance at the Pre-Bid conference, fully inform themselves as to existing conditions and limitations, and include in the Bid a sum to cover the cost of all items included in the Contract and necessary to perform the Work. The submission of a Bid will be considered as conclusive evidence that the Bidder has made such examination.

6. SUBMISSION OF BIDS:

A. Bid, with Bid Security, Sales Tax Form C-3A, City of Mobile Subcontracting & Major Supplier Plan and other supporting data specified, shall be contained in a sealed, opaque envelope, approximately 9 x 12 inches or larger and be marked on the outside with the words **SEALED BID FOR JAMES M. SEALS, JR. PARK – ATHLETIC RESTROOM/CONCESSION AND FIELD IMPROVEMENTS - PROJECT NUMBER: PR-041-20 AND HACKMEYER PARK – IMPROVEMENTS PHASE 2 – PROJECT NUMBER PR-034-21",** the Bid Date, and Contractor's name, address, and City of Mobile Business License number. And, if bidding in an amount $50,000 or greater, the State of Alabama General Contractor's License number and classification of the Bidder issued by the State of Alabama Licensing Board for General Contractors shall be written on the envelope.

B. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date specified in the Invitation to Bid, or as modified by Addendum, will not be considered. Late Bids will be returned to the Bidder unopened.

C. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

D. Oral, telephonic, facsimile or other electronically transmitted bids will not be considered.

7. MODIFICATION OR WITHDRAWAL OF BIDS:

A. A Bid may not be modified, withdrawn, or canceled by the Bidder for a period of sixty (60) days following the time and date designated for receipt of bids, and each Bidder so agrees in submitting a Bid.

8. CONSIDERATION AND AWARD OF BIDS:

A. At the discretion of the City, the properly identified Bids received on time will be publicly opened and will be read aloud.

B. The City shall have the right to reject any and all Bids. A Bid not accompanied by a required Bid security or a Bid which is in any way incomplete or irregular is subject to rejection.

C. It is the intent of the City to award a Contract to the lowest qualified Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The City shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the City's judgment, is in the City's best interest.

D. The award shall be based on the lowest Total Bid for the Base Bid and any allowances, plus any alternates and/or options that may be accepted, as listed on the Bid Form.

9. PROOF OF COMPETENCY OF BIDDER:

A. Bidders may be required to furnish evidence satisfactory to the City of Mobile that they have sufficient means and experience in the types of work called for to assure the completion of the Contract in a satisfactory manner.

10. SIGNING OF CONTRACT:

A. The Standard Agreement between the City of Mobile and the Contractor, included herein, shall serve as the Agreement between the City and the Contractor.

B. The Bidder to whom the Contract is awarded shall, within ten (10) calendar days of receiving the Contract Forms, properly execute and deliver to the Owner, the following items with the signed Agreement:
   (1). Performance Bond and Labor and Material Payment Bond (originals);
   (2). Certificate of Insurance (original) with endorsements to City of Mobile;
   (3). Evidence of enrollment in the E-Verify program.
   (4). Other documentation as required by the Contract Documents.

C. Failure or refusal to sign the Agreement or to provide Certificates of Insurance in a form satisfactory to the City of Mobile, E-Verify verification, or other required documentation, shall subject the Bidder to immediate forfeiture of Bid Security.

D. On all documents: City of Mobile Business License, the Alabama Secretary of State Business Identity, the Alabama Secretary of State Certificate of Authority (out of state contractors), E-verify documentation, and ACORD Insurance Form, the Contractor's name shall be EXACTLY the same.

11. NONDISCRIMINATION:

A. Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, inter alia, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

12. AMERICANS WITH DISABILITIES ACT (ADA):

A. Bidders shall comply with the provisions of the Americans with Disabilities Act (ADA) of 1990 which prohibits discrimination against individuals with disabilities.

13. USE OF DOMESTIC PRODUCTS:

A. Section 39-3-1, Alabama Code, 1975, provides that the Contractor agree, in the execution of this Contract, to use materials, supplies and products manufactured, mined, processed or otherwise produced in the United States or its territories, if available at reasonable prices, and that breach of this Agreement by the Contractor shall result in the assessment of liquidated damages in an amount not less than $500.00 nor more than twenty (20) percent of gross amount of the Contract Price.

14. NON-RESIDENT (OUT OF STATE) CONTRACTORS:

A. Preference to Resident Contractors: Section 39-3-5, Code of Alabama, 1975, provides that a non-resident (out of State) bidder domiciled in a state which grants a preference to local Contractors is to be awarded a public contract on the same basis as the non-resident bidder's state awards contracts to Alabama bidders. Alabama bidders are given a preference to the same extent that a non-resident bidder receives a preference in his home state. A non-resident bidder must include with any written bid documents a written opinion of an attorney licensed to practice in the non-resident bidder's state declaring what preferences, if any, exists in the non-resident's state.

B. Certificate of Authority: All non-resident (out of State) bidders shall be registered with the Alabama Secretary of State and the Alabama Department of Revenue prior to submitting a Bid. Provide the Secretary of State Business “Entity ID Number” on the Bid Form in the space provided.

15. ALABAMA IMMIGRATION ACT:

A. The State of Alabama Immigration Law (Act No. 2011-535 as amended by Act No. 2012-491), requires that Contractors not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. In addition, Contractors are required to enroll in the federal E-Verify program and submit verification of enrollment to the City of Mobile within ten (10) days of receiving the contract forms (see Section 00600).

16. CITY OF MOBILE BUSINESS LICENSE:

A. A City of Mobile Business License is required and must be current at time of contract award and throughout contract period.

17. CITY OF MOBILE CONTRACTOR’S BUSINESS LICENSE:

A. A City of Mobile Contractor’s Business License is required and must be current when contractor signs the contract and throughout contract period.

B. Contractor must qualify and post a $10,000 surety bond with the Land Use/Code Administration Department before a Contractor’s Business License will be issued by the Revenue Department. Information on the City Contractor’s License may be obtained by writing or calling:

Land Use/Code Administration
P.O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251-208-7421

Revenue Department
P.O. Box 1827
Mobile, Alabama 36633-1827
Phone: 251-208-7461

18. CITY OF MOBILE BUILDING PERMIT:

A. A City of Mobile Building Permit/Electrical Permit/Plumbing Permit/HVAC Permit/Whatever Permit is required and shall be obtained from the Land Use/Code Administration Department, but at no cost to the Contractor.

B. Contractor is responsible for ensuring that all inspections are successfully performed in accordance with City of Mobile regulations.

19. CONSTRUCTION SCHEDULE AND ACCESS:

A. The project shall be completed within two hundred seventy (270) calendar days from the date indicated by the Notice to Proceed.

B. All parks will remain in use throughout the Construction period, the Contractor is directed to coordinate all areas of work and scheduling of work with the Owner. Within five days of the bid opening, the Apparent Low Bidder shall meet with the Owner to discuss Owner scheduling and priorities. Apparent Low Bidder shall then provide a proposed schedule within 5 calendar days of the initial meeting for Owner review and approval.

D. The Contractor may be allowed additional construction days due to inclement conditions (“rain days”) only as such are appropriately documented and are in excess of the NOAA/National Weather Service average (previous 5 years) for the given month. A “rain day” is defined as more than a “trace” (0.10”) of rain falling within a given 24 hour period. The Contractor shall provide documentation and formally request any “rain days” they feel are legitimately due. Documentation shall be submitted to the Project Manager, in writing, within ten (10) calendar days of the rain event. Claim shall include documentation of trades adversely impacted and the impacted activities of each trade.

20. SITE CONSIDERATIONS:

A. It is the Contractor’s responsibility to carefully remove and store any items not permanently installed within the work areas. We strongly recommend that the Contractor photograph, videotape or in some manner document any features to be removed and their condition, prior to removal.

B. Noise and strong smells shall be isolated or kept to a minimum when adjacent portions of the site are occupied.

C. Contractor shall be responsible to leave the work area and adjacent site clear of equipment and debris, etc. at the end of each work day. All final cleaning is the responsibility of the Contractor and shall be executed prior to acceptance for reuse of any portion of the site.

D. A dumpster and lay down area for Contractor materials and staging may be located at the site and located per the direction of the Owner. The Contractor is responsible for the removal of the dumpster, any storage containers and any security fencing, temporary

erosion control (BMPs), etc. as soon as practical after their use by the Contractor or the work is complete.

21. SALES AND USE TAX EXEMPTION:

A. As per the State of Alabama ACT 2013-205, the Alabama Department of Revenue (ADOR) has been granted the authority to issue a "Certificate of Exemption from Sales and Use Tax for Governmental Entities" on construction projects. Therefore, this project shall qualify for State of Alabama Sales and Use Tax Exemptions under this ACT. It is the responsibility of the Bidder to confirm the potential tax exempt status of their bid with the ADOR and include any such savings in their bid, as well as accounting for same on their bid form attachment Sales Tax Form C-3A.

B. The full text of ACT 2013-205 is available on the State of Alabama Building Commission web-site at www.bc.alabama.gov .

22. SUBMISSION OF LIEN WAIVERS AND DBE COMPLIANCE, UTILIZATION REPORTS:

A. At each monthly Application for Payment submitted to the owner, the Contractor shall provide completed "City of Mobile DBE Compliance, Utilization Reports" and lien waivers, including those from Subcontractors and material suppliers.

23. NOTICE OF COMPLETION:

A. For Contracts $50,000 or greater:
Contractor shall provide proof of publication of Advertisement of Completion for four consecutive weeks in a local newspaper, as required in the Title 39, Section 39-1-1, Subsection (f), of the Code of Alabama. This Advertisement shall not begin until the Project has been accepted by the City of Mobile.

B. Notice of Completion advertisement shall read as follows:

STATE OF ALABAMA

COUNTY OF MOBILE

NOTICE OF COMPLETION
In accordance with Chapter 1, Title 39, Code of Alabama, 1975, NOTICE IS HEREBY given that (COMPANY NAME) has completed the contract for James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements, 540 Texas Street, Mobile, Alabama 36603 and Hackmeyer Park – Improvements Phase 2, 3810 Conway Drive South, Mobile, Alabama 36608. All persons having any claims for labor, material or otherwise in connection with this project should immediately notify the Architectural Engineering Department, City of Mobile, P.O. Box 1827, Mobile, Alabama 36633-1827.

C. Advertisement shall not begin until the Project has been accepted by the City of Mobile as Substantially Complete.

24. CONTRACTOR WARRANTY AND CERTIFICATION:

A. Upon completion of the contract, the Contractor shall certify under oath that all bills have been paid in full.

B. Contractor shall provide a one year Labor and Materials Warranty on company letterhead in addition to other warranties required by the Bid Documents.

25. LIQUIDATED DAMAGES

A. A time charge equal to Two Hundred Fifty Dollars ($250.00) per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted, or any required closeout documents are not acceptably submitted, for more than thirty (30) calendar days after the time specified for the Substantial Completion for the Work, the amount of which shall be deducted by the owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not as a penalty, but as liquidated damages sustained.

END OF SECTION

SECTION 00400 BID FORM

Copies of the following Bid Forms shall be used. Bids submitted on alternate forms may be rejected. Fill in all blank spaces with an appropriate entry. Bid Form must be signed by an officer of the company and notarized.

TO: City of Mobile, 205 Government St., P.O. Box 1827, Mobile, AL, 36633

REF: PROJECT NO.: PR-041-20
PROJECT NAME: James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements
PROJECT LOCATION: 540 Texas Street
Mobile, Alabama, 36603

And

PROJECT NO.: PR-034-21
PROJECT NAME: Hackmeyer Park – Improvements Phase 2
PROJECT LOCATION: 3810 Conway Drive South
Mobile, Alabama, 36608

In compliance with the Bid Documents and having carefully and thoroughly examined said documents for the subject Work prepared by the City of Mobile, Architectural Engineering Department and Consultant dated November 2, 2022; and all Addendum (a) Number(s) _____, dated _____, 2022 (CAUTION: before submitting any bid it is the Bidder's responsibility to check with the Architectural Engineering Department for all Addenda or special instructions that may impact the Bid) thereto, receipt of which is hereby acknowledged, the premises and all conditions affecting the Work prior to making this Proposal, the Undersigned Bidder, hereby

COMPANY NAME:_____

ADDRESS:_____PHONE_____

ALABAMA GENERAL CONTRACTOR LICENSE NO. _____

CITY OF MOBILE BUSINESS LICENSE NO._____

SECRETARY OF STATE OF ALABAMA BUSINESS IDENTITY NO._____

SECRETARY OF STATE OF ALABAMA ACCOUNT NO._____

(Note: Secretary of State Account Number shall be filled in only by non-resident bidders)

(Check one) [ ] A Corporation [ ] A Partnership [ ] An Individual Doing Business

hereby proposes to furnish all labor, materials, tools, equipment, and supplies and to sustain all the expenses incurred in performing the Work on the above captioned Project in accordance with the terms of the Contract Documents, and all applicable laws and regulations for the sum listed below. The initial term of the Contract shall extend for two hundred seventy (270) calendar days from the date of the Notice to Proceed.

James M. Seals, Jr. Park - Athletic Restroom/Concession Base Bid: **$ .00**

James M. Seals, Jr. Park - Field Improvements Base Bid: **$ .00**

Contingency Allowance: **+ $ 25,000.00**

James M. Seals, Jr. Park Total Base Bid: **$ .00**

_____

_____ Dollars, ($ _____.00)
(Amount in Words) (Amount in Figures)

Hackmeyer Park Base Bid: **$ .00**

Contingency Allowance: **+ $ 25,000.00**

Disk Golf Course Signage: **+ $ 5,000.00**

Hackmeyer Park Total Base Bid: **$ .00**

_____ Dollars, ($ _____.00)
(Amount in Words) (Amount in Figures)

TOTAL BID JAMES M. SEALS, JR. PARK PLUS HACKMEYER PARKS:

_____

_____ Dollars, ($ _____.00)
(Amount in Words) (Amount in Figures)

ADD ALT. #1 JAMES M. SEALS, JR. PARK PLAYGROUND SHADES:

_____

_____Dollars, ($ _____.00)
(Amount in Words) (Amount in Figures)

Unit Price #1: Provide and install one (1) trash receptacle, model #CL-36R14 by Ultrasite, surface mounted to the concrete, per the specifications. Include placement, fasteners and all other necessary construction components for installation.

$_____ EA

Unit Price #2: Unsuitable Soil Material – Cubic Yards In Place, includes excavation, haul off and disposal of unsuitable material.

$_____ CY

Unit Price #3: Structural Fill – Cubic Yards In Place, Provide and Install Imported Structural Fill, spread, compaction, and all other necessary construction components for installation.

$_____ CY

Unit Price #4: Provide and install 4” concrete flatwork (sidewalks, fountain pads, etc) per detail. Include excavation, fill, compaction, grading, concrete, reinforcement, disposal, placement, and all other necessary construction components for installation.

$_____ SF

Unit Price #5: Demolish and properly dispose offsite existing concrete flatwork (sidewalks) as specified on drawings. Include excavation, sawing, jack hammering, loading, haul off site, and proper disposal.

$_____ SF

Unit Price #6: Provide and install Asphalt Patch as specified. Include excavation, fill, compaction, grading, disposal, placement, footings, and all other necessary construction components for installation.

$_____ CY

Unit Price #7: Provide and install solid sod, Bermuda. Include grading, placement, and all other necessary construction components for installation.

$_____ CY

(Note: Show amount in both words and figures. In case of discrepancy, the amount in words shall govern). **Bids shall be provided in whole dollar amount with no cents.**

JAMES M. SEALS, JR. PARK CONTINGENCY ALLOWANCE: $25,000.00 lump sum Contingency Allowance shall be included in the Total Bid for work related to unforeseen conditions as approved by the Owner.

HACKMEYER PARK CONTINGENCY ALLOWANCE: $25,000.00 lump sum Contingency Allowance shall be included in the Total Bid for work related to unforeseen conditions as approved by the Owner.

BID SECURITY: The undersigned Bidder agrees that the attached Bid Security, as a Cashier's Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond, made payable to the City of Mobile, in the amount of 5% of the bid amount, but in no event more than $10,000, as the proper measure of liquidated damages which the City will sustain by the failure of the undersigned to execute the Contract. Said Bid Security shall become the property of the City of Mobile as liquidated damages as specified in the Contract Documents.

AMERICANS WITH DISABILITIES ACT (ADA): The undersigned Bidder agrees to fully comply with all requirements of the Americans with Disabilities Act of 1990 and the Amendment Act.

NONDISCRIMINATION: Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

SIGNATURE: If the undersigned Bidder is incorporated, the entire legal title of the company followed by "a corporation" should be used. If Bidder is an individual, then that individual's full legal name followed by doing business as (d/b/a) and name of firm, if any, should be used. If Bidder is a partnership, then full name of each partner should be listed followed by "d/b/a" and name of firm, if any.

Ensure that name and exact arrangement thereof is the same on all forms submitted with this Bid. If a word is abbreviated in the official company name, such as "Co.", then use that abbreviation. If not abbreviated in the official name, spell out.

Bidder agrees not to revoke or withdraw this Bid until sixty (60) calendar days following the time and date for receipt of bids. If notified in writing of the acceptance of this Bid within this time period, Bidder agrees to execute a Contract based on this Bid on the proscribed form within ten (10) calendar days of said notification and to furnish Performance Bond and Materials and Payment Bond as specified.

COMPANY NAME:_____
(Printed or Typed)

BY:_____
(Signature of Company Officer)

COMPANY OFFICER:_____
(Printed or Typed)

TITLE_____ **DATE**_____**, 2022**
(Printed or Typed)

Sworn to and subscribed before me this _____ day of _____2022.

_____
Notary Public

Attachments:
1. Bid Security, with Power of Attorney
2. Secretary of State Authorization (Out of state bidders only)
3. Sales Tax Form C-3A
4. Supplier Diversity Subcontracting & Major Supplier Plan

END OF BID FORM

ACCOUNTING OF SALES TAX
ATTACHMENT TO BID FORM SECTION 00400
SALES TAX FORM C-3A

To: City of Mobile **Date:**_____

Name of Project: JAMES M. SEALS, JR. PARK – ATHLETIC RESTROOM/CONCESSION AND SITE IMPROVEMENTS
Project Number: PR-041-20

Name of Project: HACKMEYER PARK – IMPROVEMENTS PHASE 2
Project Number: PR-034-21

SALES TAX ACCOUNTING

Pursuant to Act 2013-205, Section 1(g) the Contractor accounts for the sales tax NOT included in the bid proposal form as follows:

	ESTIMATED SALES TAX AMOUNT
JAMES M. SEALS, JR. PARK BASE BID:	$_____
HACKMEYER PARK BASE BID:	$_____

Failure to provide an accounting of sales tax shall render the bid non-responsive. Other than determining responsiveness, sales tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.

Legal Name of Bidder_____

Mailing Address_____

***By (Legal Signature)**_____

*Name (type or print)_____ (Seal)

*Title_____

Telephone Number_____

Contact Office of Supplier Diversity for questions on completing this form.
Via emai:Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 5th Floor

Bidders and Proposers – Please complete and submit these forms as required by your City of Mobile Bid or Proposal Specification.

If you are submitting a proposal in response to a Request for Qualifications, Request for Proposal, or other solicitation ("Solicitations") issued by the City of Mobile, the bid specification may require you to utilize disadvantaged business enterprise ("DBE") subcontractors and suppliers. If DBE participation is required, you must complete and submit these forms with your proposal. If required, failure to submit this form will render your bid non-responsive. NOTE: To satisfy participation requirements for a federally funded project, you must utilize DBEs certified through the Alabama Unified Certification Program.

If DBE participation is required, and you fail to satisfy the participation requirement, you must show that you made a good faith effort to include such participation; you will be required to submit DBE Compliance Form 2 and include additional information if needed. When so required, failure to address adequately the good faith effort factors on Form 2 will render your bid or proposal non-responsive. The "good faith effort" factors on Form 2 are not intended to be a mandatory, exhaustive, or exclusive.

You are encouraged to work with the City of Mobile Supplier Diversity Manager when preparing this form. Please consult with the City Supplier Diversity Manager for a list of eligible DBEs. The "good faith effort" factors on **Form 2** are not intended to be mandatory, exhaustive, or exclusive; they are a tool to help you, and the City of Mobile, determine whether you made efforts which, by their scope, intensity, and appropriateness to the objective, would reasonably be expected to fulfill the participation requirement.

About **"DBEs"**: Disadvantaged business enterprise or DBE means a for-profit small business concern (1) That is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and (2) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.

About **"Good Faith" Effort**: Good faith efforts means efforts to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. The City of Mobile expects contractors holding large contracts to recruit and engage DBEs to be a part of their team.

Failure to submit this form, when so required by the bid or proposal specification, will render your bid non-responsive.

Contact Office of Supplier Diversity for questions on completing this form.
Via emai:Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 5th Floor

FORM 1: Background and Plan

Section I. Information about your company

Company	
Address	
Telephone	
E-Mail	

RFP/RFQ Solicitation Number	
Project Description	
Is your company a DBE company?	Yes ☐ No ☐
Work force demographics	Male _____ Female _____ Minority _____ Non-minority _____ SDVO _____ Total #of Employees _____

Subcontractor/Major Supplier Plan submitted by:

Printed Name: _____

Signature: _____ Date: _____

Title: _____

The following employee will be designated as the **DBE Liaison** for all communication regarding DBE participation including documentation for DBE participation and maintenance of records of Good Faith Efforts for this contract award:

Name: _____ Title: _____

Email: _____ Phone: _____

Contact Office of Supplier Diversity for questions on completing this form.
Via emai:Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 5th Floor

FORM 1: Background and Plan (Cont'd

Section II. Subcontractors/Major Vendors Supplier Plan submitted by:

Please Print Company_____ Your Bid/Proposal Amount $_____ Date:

_____/ _____/_____ Description_____

Name of Bidder/Proposer: _____

I intend to use the following subcontractors: (Attach additional pages if necessary)

Subcontractor or Major Supplier	Phone	Scope of Work to be performed	$$ Value to be Performed	% Of Your Bid Amount	DBE?	Official Verification Only

Form 2: Good Faith Effort Documentation

Name of Bidder: _____

Contact Person: _____ Phone_____ Email_____

Please complete this form if you are unable to identify DBE subcontractors or suppliers to reach 15% of the value of your bid.

YES (□)	NO (□)	Did you do these suggested areas for DBE recruitment and engagement
		PRE-BID MEETING(S): The bidder attended all pre-bid meetings scheduled by the City to inform DBEs of contracting and subcontracting opportunities.
		CMDBE/ALDOT DBE LIST(S): The bidder utilized the Office of Supplier Diversity's list or lists of certified through the Alabama Department of Transportation UCP DBE Listing
		SMALL CONTRACT(S): The bidder selected specific portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goals (including breaking down contracts into smaller units to facilitate DBE participation). Consider support services, including insurance, accounting, temporary labor, and transportation, landscaping, and janitorial as potential areas for DBE use.
		FOLLOW-UP: The bidder followed-up initial indications of interest by DBEs by contacting those DBEs to determine with certainty if they remained interested in bidding.
		GOOD FAITH NEGOTIATIONS: The bidder negotiated in good faith with interested DBEs and did not reject DBEs as unqualified without sound business reasons based on a thorough investigation of their capabilities. Bidders are not expected to engage unqualified subcontractors or subcontractors whose pricing, after negotiation, remains excessive or unreasonable. (Please document qualification deficiencies or unreasonable pricing if it prevented your engagement of specific DBE subcontractors.)
		ADVERTISEMENT: The bidder advertised in general circulation and/or trade association publications concerning subcontracting opportunities and allowed DBEs reasonable time to respond.
		INTERNET ADVERTISING: The bidder advertised DBE and/or subcontracting opportunities in the newspaper or other internet portals that are accessible to DBEs and/or potential subcontractors.

		INFORMATION: The bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the subcontract.
		WRITTEN NOTICE(S): The bidder/proposer took the necessary steps to provide written notice in a manner reasonably calculated to inform DBEs of subcontracting opportunities and allowed sufficient time for them to participate effectively.
		COMMUNITY RESOURCES: The bidder/proposer used the services of available community organizations, small and/or disadvantaged business assistance offices and other organizations that provided assistance in the recruitment and placement of DBE firms.

CONTRACT RECORDS:
The bidder/proposer has maintained the following records for each DBE that has bid on the subcontracting opportunity:
1. Name, address, email address and telephone number
2. A description of information provided by the bidder/proposer or subcontractor; and
3. A statement of whether an agreement was reached, and if not, why not, including any reasons for concluding that the DBE was unqualified to perform the job.

Section 2(B)

_____ There are not ways to break out 15% of the value of this contract for subcontractors / suppliers. Provide further detail in Section2(c) if the inability to break-out 15% of the value of the contract was the reason, or a reason, you could not meet the participation requirements.

_____ Could not find sufficient DBEs to provide subcontracting or supplier services.

_____ DBEs were available but did not have sufficient qualifications or experience to meet the needs of this contract.

Please indicate additional efforts you have taken to recruit and engage DBEs. _____

_____

_____

SECTION 00500 STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

PART 1 GENERAL

A. This section includes the STANDARD FORM OF AGREEMENT BETWEEN OWNER and CONTRACTOR, AIA Document A101, wherein the basis of payment is a Stipulated Sum; the document has been electronically modified to meet the Owner's requirements and shall be used for the Project.

AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

City of Mobile
P. O. Box 1827
Mobile, Alabama 36633-1827

and the Contractor:
(Name, legal status, address and other information)

City of Mobile Business License Number:
Secretary of State Registration Number:

for the following Project:
(Name, location and detailed description)

James M. Seals, Jr.- Athletic Restroom/Concession and Field Improvements
540 Texas Street
Mobile, Alabama 36603
PR-041-20
And
Hackmeyer Park – Improvements Phase 2
3810 Conway Drive South
Mobile, Alabama 36608PR-034-21

The Architect:
(Name, legal status, address and other information)

City of Mobile
Architectural Engineering Department
P. O. Box 1827
Mobile, Alabama 36633-1827

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others (See attachment Exhibit A).

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:
(Check one of the following boxes.)

[X] A date set forth in a notice to proceed issued by the Owner.

(Paragraphs deleted)

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:
(Check one of the following boxes and complete the necessary information.)

[X] Not later than two hundred seventy (270) calendar days from the date of the Notice to Proceed for commencement of the Work.

(Table deleted)

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(Paragraph deleted)
§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be ___ and 00/100 Dollars ($ ___.00), subject to additions and deductions as provided in the Contract Documents.

James M. Seals, Jr. Base Bid:	$
Contingency Allowance:	$ 25,000.00
Hackmeyer Park Base Bid:	$
Contingency Allowance:	$ 25,000.00
Total Contract Sum:	$

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price
N/A	

(Table deleted)
(Paragraphs deleted)
§ 4.3 Allowances, if any, included in the Contract Sum:
(Identify each allowance.)

James M. Seals, Jr. Park Contingency Allowance: Twenty-Five Thousand and 00/100 Dollars ($25,000.00)
Hackmeyer Park Contingency Allowance: Twenty-Five Thousand and 00/100 Dollars ($25,000.00)

A. Contingency Allowance shall cover cost of material, labor, overhead, profit and other expenses for complete installation of items of additional work as required for a complete, functional project.
B. Contingency Allowance shall be used for unforeseen conditions not covered in the construction documents.
C. All extra work under this section must be authorized by the Owner, in writing, prior to materials or undertaking work.
D. Upon completion of the Work, the unused portion of the Allowance shall be credited back to the Owner in the form of a Change Order.
E. Allowances are subject to the same provision of AIA 201 Article 7.3.7.

§ 4.4 Unit prices, if any:
(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit ($0.00)
Unit Price #1: Provide and install one (1) trash receptacle, model #CL-36R14 by Ultrasite, surface mounted to the concrete, per the specifications. Include placement, fasteners and all other necessary construction components for installation.	EA	
Unit Price #2: Unsuitable Soil Material – Cubic Yards In Place, includes excavation, haul off and disposal of unsuitable material.	CY	
Unit Price #3: Structural Fill – Cubic Yards In Place, Provide and Install Imported Structural Fill, spread, compaction, and all other necessary construction	CY	

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components for installation.

Unit Price #4: Provide and install 4" concrete flatwork (sidewalks, fountain pads, etc) per detail. Include excavation, fill, compaction, grading, concrete, reinforcement, disposal, placement, and all other necessary construction components for installation.	SF
Unit Price #5: Demolish and properly dispose offsite existing concrete flatwork (sidewalks) as specified on drawings. Include excavation, sawing, jack hammering, loading, haul off site, and proper disposal.	SF
Unit Price #6: Provide and install Asphalt Patch as specified. Include excavation, fill, compaction, grading, disposal, placement, footings, and all other necessary construction components for installation.	SY
Unit Price #7: Provide and install solid sod, Bermuda. Include grading, placement, and all other necessary construction components for installation.	SY

§ 4.5 Liquidated damages:
(Insert terms and conditions for liquidated damages, if any.)

A time charge equal to Two Hundred Fifty and 00/100 Dollars ($250.00) per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted or any required closeouts documents are not acceptably submitted for more than thirty (30) days after the date specified for the substantial Completion of the Work, the amount of which shall be deducted by the owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not as a penalty, but as liquidated damages sustained.

(Paragraphs deleted)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the 25th of the month.

§ 5.1.3 Provided that an Application for Payment in acceptable format is received by the Architect not later than the first 1st day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the tenth 10th day of the following month. If an Application for Payment in acceptable format is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than forty (40) days after the Architect receives the Application for Payment.
(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to

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substantiate its accuracy, as the Architect may require. This accepted schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201, General Conditions of the Contract for Construction (including Owner's then-current modifications), and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.6.1 The amount of each progress payment shall first include:

.1 That portion of the Contract Sum properly allocable to completed Work;

.2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing and insured as specified;

.3 Completed work shall be determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values.

§ 5.1.6.2 The amount of each progress payment shall then be reduced by:

.1 The aggregate of any amounts previously paid by the Owner;

.2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;

.3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;

.4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and

.5 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.6.3 Any Progress Payment shall include partial release of liens for material and labor for previous application for payment amount approved and paid. The DBE Utilization Report shall be included with the pay application.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:
(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

Five percent (5%) of the first fifty percent (50%) of the completed work and after fifty percent (50%) completion has been accomplished, no further retainage shall be held from the original Contract Sum. Increases in the contract sum by Change Order shall also be subject to retainage.

§ 5.1.7.1.1 The following items are not subject to retainage:
(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

N/A

(Paragraphs deleted)
§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:
(Insert any other conditions for release of retainage upon Substantial Completion.)

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The net amount of the Retainage shall be equal to two and one half percent (2.5%) of total Contract Sum, as increased or decreased by Change Order.

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201.

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1 Final monthly progress payment, constituting the entire unpaid balance of the Contract Sum, less retainage, shall be made by the Owner to the Contractor when

.1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201 (including Owner's then-current modifications which may be obtained from the Owner or, alternatively, a copy of which is incorporated in the Project Manual and incorporated by reference herein as a part thereof), and to satisfy other requirements, if any, which extend beyond final payment; and

.2 a Certificate of Substantial Completion has been issued by the Architect/Owner and the project accepted.

§ 5.2.2 The Owner's final payment to the Contractor of retainage shall be made as follows:

The final two and one half percent (2.5%) of the total Contract Sum retained will not be paid until proof of publication is submitted and all written claims paid in full. Contractor to submit the following:

•Contractor's Affidavit of Payment of Debts and Claims (AIA form G706, included in contract documents) with
  a.) Contractor's Release or Waiver of Liens
  b.) Releases or Waivers of Liens from Subcontractors and Material and Equipment Suppliers;
•Contractor's Affidavit of Release of Liens (AIA form G706A, included in contract documents);
•Consent of Surety, if any, to final payment (AIA form G707, included in contract documents);
•Any additional close out requirements per the contract documents; and
•Notarized Affidavit of Notice of Completion advertisement from publisher.

Contractor shall provide proof of publication of Notice of Completion in a local newspaper once per week for four (4) consecutive weeks, as required in the Title 39, Section 39-1-1, Subsection (f), of the Code of Alabama quoted below. "The Contractor shall, immediately after the completion of the contract, give notice of Completion by an advertisement in a newspaper of general circulation published within the city or county in which the work has been done, for a period of four (4) consecutive weeks. A final settlement shall not be made upon the contract until the expiration of thirty (30) days after the completion of the notice. Proof of publication of the notice shall be made by the contractor to the authority by whom the contract was made by affidavit of the publisher and a printed copy of the notice published. If no newspaper is published in the county in which the work is done, the notice may be given by the contract." (Acts 1927, No. 39, 9.37; Acts 1935, No. 39, 9. 70; Code 1940, T. 50, Section 16; Acts 1983, No. 83-737, 9.1203; Acts 1989, No. 89-650m 9. 1284, Section 1; Acts 1994, No. 94-207, p, 270, Section 1; Acts 1997, No. 97-225, p. 348, Section 1.)

The Notice of Completion shall read as follows:

STATE OF ALABAMA
COUNTY OF MOBILE
NOTICE OF COMPLETION
In accordance with Chapter I, Title 39, Code of Alabama, 1975, NOTICE IS HEREBY given that ( ) has completed the contract for James M. Seals, Jr. Park – Athletic Restroom/Concession and Field Improvements, 540 Texas Street, Mobile, Alabama 36603, PR-041-20 and Hackmeyer Park – Improvements Phase 2, 3810 Conway Drive South, Mobile, Alabama 36608, PR-034-21. All persons having any claims for labor, material or otherwise in connection with this project should immediately notify the Architectural Engineering Department, City of Mobile, P. O. Box 1827, Mobile, Alabama 36633-1827.

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Publication of the Notice of Completion shall not begin until the Project has been accepted as Substantially Complete by the City of Mobile.

(Paragraphs deleted)

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Engineer will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201, unless the parties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker.
(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

N/A

§ 6.2 Binding Dispute Resolution

For any Claim, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

[X] Litigation in a court of competent jurisdiction

§ 6.3 Governing Law and Venue

(Paragraph deleted)
This Agreement shall be governed by the laws of the State of Alabama, and the appropriate venue of any actions arising out of this Agreement shall be a court of proper jurisdiction in Mobile, Alabama.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201, General Conditions of the Contract for Construction, including Owner's then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof..

(Paragraphs deleted)
§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201, General Conditions of the Contract for Construction, including Owner's then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents. A copy of such amended, revised or supplemental provision is incorporated in the contract documents and hereby incorporated by reference herein as a part thereof.

§ 8.2 The Owner's representative:
(Name, address, email address, and other information)

Director of Real Estate Asset Management Department
P. O. Box 1827
Mobile, Alabama 36633-1827

§ 8.3 The Contractor's representative:
(Name, address, email address, and other information)

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§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten (10) days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth below:
The Contractor shall purchase and maintain from a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

.1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;
.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
.4 Claims for damages insured by usual personal injury liability coverage;
.5 Claims for damages, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
.6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
.7 Claims for bodily injury or property damage arising out of completed operations; and
.8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18 of the General Conditions of the Contract for Construction.

The Contractor shall take out and maintain during the life of the Contract no less than the following amounts of insurance with the City of Mobile named as an additional insured. Contractor shall submit a Certificate of Insurance. Insurance companies listed as the "Companies Affording Coverage" shall be authorized by the Secretary of the State of Alabama. Insurance produced out of the State of Alabama must be signed or counter signed by a licensed Agent of Alabama, with the Agent's name, address and telephone number typed or printed on the face of the Certificate of Insurance.

.1 Workmen's Compensation Insurance: - Statutory-amount and coverage as required by all applicable laws, rules or regulations of the State of Alabama and the United States of America, Including the U. S. Longshore and Harbor Workers Act and the Jones Act, if applicable.

.2 Employee's Liability Insurance shall be provided for limits of liability not less than:

A.	Bodily Injury by Accident	$1,000,000 each accident
B.	Bodily Injury by Disease	$1,000,000 each employee
C.	Bodily Injury by Disease	$1,000,000 each policy

.3 United States Longshoreman's Harbor Worker's Act.

.4 Jones Act Coverage (if applicable) placed either in the Workers Compensation or through the Marine General Liability.

.5 The Contractor shall provide Broad Form (commonly termed Comprehensive) General Liability Insurance (including premises-product-completed operations, independent contractors, and blanket contractual liability), specifically covering the obligations assumed by the Contractor for limits of liability not less than:

A.	Bodily Injury	$1,000,000 each person $1,000,000 each occurrence
B.	Property Damage	$1,000,000 each occurrence; or

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C. Bodily Injury and Property Damage — $1,000,000 combined single limit

.6 Such comprehensive policy shall include the following:

A. All liability of the Contractor, for the Contractor's Direct Operations.
B. Subcontractor's Operations.
C. Completed Operations Cover, thereby meaning any loss which shall occur after the contract has been completed, but which can be traced back to the Contract.
D. General Aggregate Limit of $2,000,000 shall apply on a "Per Project" Basis.
E. Contractual Liability, meaning thereby; any risk assumed by the Contractor under Hold Harmless Agreements or any other assumption of liability, but specifically items 11.1.1.8.3G herein below
F. Broad Form Property damage Coverage, including Completed Operations.
G. Personal Injury Liability, with employee's exclusions removed.
H. Explosion and Collapse Hazard:
Included or X Not Applicable.
I. Underground Hazard:
Included or X Not Applicable.

J. Marine General Liability shall include Premises and Operations, Personal and Advertising Injury, Products and Completed Operations, Protection and Indemnity including vessel and crew (if applicable).

K. Deletion of watercraft exclusion with respect to non-owned vessels and contractual Liability for watercraft exposure not covered by Protection and Indemnity policy.

L. The Marine General Liability policy must include an endorsement to cover "Sudden And Accidental Pollution."

.7 The Contractor shall carry for himself and shall require that all Subcontractors and all Owners of Automobiles or trucks rented or hired on the contract carry, until the Contracts is completed, Comprehensive Automobile Liability Coverage for Bodily Injury and property. Damage for any auto in amounts not less than the minimum amounts as indicated. The Contractor and Subcontractor shall also carry for themselves insurance for all non-owned and hired automobile at the limits of liability as indicated below:

A. Bodily Injury — $1,000,000 each person; $1,000,000 each occurrence
B. Property damage — $1,000,000 each occurrence; or,
C. Bodily Injury and Property damage — $1,000,000 combined single limit

.8 Umbrella/Excess Liability: $5,000,000 combined single limit each occurrence for bodily injury and/or property damage

.9 Builder's Risk Coverage (Property Insurance): The Contractor shall carry for the Owner, himself, and all Subcontractors a Builder's Risk Policy to cover the full amount of the Contract during construction, fabrication or erection of any equipment.

A. The Contractor shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in the Contract

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Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors, Sub-subcontractors, and the Design Professionals in the Project.

B. Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

C. If the property insurance requires deductibles, the Contractor shall pay costs not covered because of such deductibles. Deductibles shall be limited to a maximum of $2,500.00 unless the loss is caused by windstorm; then deductible shall be a maximum of three percent (3%) of the insured value.

D. This property insurance shall cover the full value of equipment, material, and other portions of the Work stored off the site, and also portions of the Work in transit. There shall be no limits on the value of loss per occurrence.

E. A named storm endorsement is required. The deductible shall be a maximum of three percent (3%) of the insured value.

.10 A Surety authorized to do business in the State of Alabama shall furnish the required Insurance.

.11 The standard ACORD™ format shall be provided. The ACORD™ Certificate must be signed or countersigned by a Licensed Resident Agent of the State of Alabama and the agent's name, address and telephone number must appear on the face of the certificate.

.12 The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc. if the bid price exceeds $50,000.00.

.13 "In Rem" endorsement.

The insurance shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

Certificates of insurance acceptable to the Owner shall be filed with the Owner within ten (10) calendar days from date of issuance of contract forms for execution. Contractor shall deliver to the City of Mobile, certificates of insurance certifying the existence and limits of the insurance coverages along with separate policy endorsements. Contractor shall also be responsible for delivering policy renewal certificates to the City of Mobile, and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies shall contain a provision that coverages afforded under the policies will not be cancelled subject to non-renewal nor material change, or allowed to expire without at least thirty (30) days' (except ten (10) days from non-payment) prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the time. Information concerning reduction of coverage on

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account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

All policies of insurance, except worker's compensation, shall be endorsed to provide that all such insurances are primary and non-contributing with any other insurance maintained by the City of Mobile and endorsed to waive rights of subrogation in favor of the City of Mobile.

The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 8.5.2 The Contractor shall provide bonds as set forth below:
Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder.

Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

The Labor and Material Payment Bond and the Performance Bond shall each be for one hundred percent (100%) of the Contract Sum.

1. Bond shall be submitted with the executed agreement on provided form(s).

2. Power of Attorney is required for both bonds.

3. A Surety authorized to do business in the State of Alabama shall furnish both bonds.

4. A Surety licensed to do business in the State of Alabama must execute the bonds.

5. The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc., if the bid price exceeds $50,000.00.

6. The Surety company shall be required to execute AIA Document G-707, "Consent of Surety to Final Payment" prior to Final Payment being made to the Contractor.

§ 8.6
(Paragraphs deleted)
Indemnification:
The Contractor shall indemnify, defend and hold harmless City and its officers, elected officials, agents, representatives, and employees in respect of any and all claims, injuries, losses, diminution in value, damages, liabilities, whether or not currently due, and related expenses (including without limitation, settlement costs and any legal or other expenses for investigating or defending any actions or threatened actions) arising from or in connection with the contractor's performance under this agreement, including but not limited to, environmental laws, regulations, orders and decrees of whatever character or nature and damage or injury to persons or property. Contractor hereby confirms and agrees that Contractor is not a 'design professional' as defined in Alabama Act 2021-318, and not required to carry professional liability insurance for the performance or obligations of this contract.

§ 8.7 Other Provisions:
Contractor shall provide a minimum one (1) year warranty from the date of substantial completion of all Labor and Materials for the Work covered by this contract, unless otherwise specified. Labor and Material warranties required by other sections of the construction document shall not conflict with this provision. The most stringent warranty provision shall apply.

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§ 8.8 Force Majeure:
In the event that either party hereto shall be delayed or hindered in or prevented from the performance of any act required hereunder by reason of strikes, lockouts, labor troubles, inability to procure materials, failure of power, restrictive governmental laws or regulations, riots, insurrection, war, Act of God, or other reason of a like nature not the fault of the party delayed in performing work or doing acts required under the terms of this Agreement, then performance of such act shall be excused for the period of the delay and the period for the performance of any such act shall be extended for a period equivalent to the period of such delay.

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor

.2 AIA Document A201, General Conditions of the Contract for

(Paragraphs deleted)

Construction, including Owner's then-current modifications, a copy of which is incorporated in the contract documents and incorporated by reference herein as a part thereof.

(Paragraph deleted)

.3 Drawings

Number	Title	Date

.4 Specifications

Section	Title	Date

.5 Addenda, if any:

Number	Date

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

.6 Other Exhibits:
(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

(Paragraphs deleted)
§ 9.2
(Paragraph deleted)
Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
N/A			

§ 9.2.1 Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201™–2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor's bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

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BIDDING AND CONTRACT REQUIREMENTS

Section 00100	Invitation to Bid
Section 00200	Instructions to Bidders-AIA Document A701-2018
Section 00300	Supplementary Instructions to Bidders
Section 00400	Bid Form
	Accounting of Sales Tax Form C-3A
	Supplier Diversity Subcontracting and Major Supplier Plan
Section 00500	Standard Form of Agreement Between Owner and Contractor AIA Document A101
Section 00600	Bonds, Certificates and Affidavits
	Performance Bond
	Labor and Material Payment Bond
	E-Verify Documentation (Sample)
	Application and Certificate for Payment-AIA Document G702and G703 with DBE Utilization Report
	Certificate of Substantial Completion-AIA Document G704
	Contractor's Affidavit of Payment of Debts and Claims-AIA Document G706
	Contractor's Affidavit of Release of Liens-AIA Document G706A
	Consent of Surety to Final Payment-AIA Document G707
	Request for Taxpayer Identification Number and Certification W9 Tax Form and City of Mobile Vendor Information Form
Section 00700	General Conditions of the Contract for Construction-AIA Document A201

§ 9.2.2 Best Management Practices (BMPs):
The Contractor shall be responsible for providing, implementing and maintaining BMPs for sediment and erosion control in full compliance with all applicable Local, State and Federal Codes and Ordinances throughout the contract period. All Work shall be in accordance with the Clean Water Act; the Alabama Water Pollution Control Act; the current version of the Alabama Handbook for Erosion Control, Sediment Control Stormwater Management on Construction sites and Urban Areas; and the current version of the Mobile, Alabama City Code Chapter 17 Stormwater Management and Flood Control. All Waste water with oils, grease, paint, mortar, etc., shall be properly contained and disposed of.

§ 9.2.3 Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

§ 9.2.4 By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

§ 9.2.5 Public Contracts with Entities Engaging in certain Boycott Activities:
By signing this contract, the Contractor further represents and agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

§ 9.2.6 Severability Clause:
In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement, but this Agreement shall be construed as if such invalid or illegal or

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unenforceable provision had never been contained herein. Upon such determination that any term or other provision is invalid, illegal or unenforceable, the court or other tribunal making such determination is authorized and instructed to modify this Agreement so as to effect the original intent of the parties as closely as possible so that the transactions and agreements contemplated herein are consummated as originally contemplated to the fullest extent possible.

§ 9.2.7 Non-Agency Clause:
Contractor, in the performance of its operations and obligations hereunder, shall not be deemed to be an agent of City but shall be deemed to be an independent Contractor in every respect and shall take all steps at its own expense, as City may from time to time request, to indicate that it is an independent Contractor. City does not and will not assume any responsibility for the means by which or the manner in which the services by Contractor provided for herein are performed, but on the contrary, Contractor shall be wholly responsible therefore.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

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This Agreement entered into as of the day and year first written above.

City of Mobile

Legal Name of Party to Contract:
Contractor:

OWNER *(Signature)*

CONTRACTOR *(By Signature)*

William S. Stimpson, Mayor

(Rows deleted)
(Printed name and title)

(Printed name and title)

ATTEST:

City Clerk

STATE OF _____
COUNTY OF _____

Before me, the undersigned a Notary Public in and for said County and State, personally appeared _____ as _____ of _____ and after being duly sworn, did depose and say that he, as such officer and with full authority, signed the above and foregoing voluntarily as the act of said corporation on the day the same bears date.
Sworn to and subscribed for me this _____ day of _____, 20_____.

NOTARY PUBLIC
My Commission Expires: _____

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SECTION 00600 BONDS, CERTIFICATES AND AFFIDAVITS

PART 1 GENERAL

This section includes the Bond Forms and Certificates that are to be used on this Project. No other forms will be accepted. Forms may be obtained from the Architectural Engineering Department, City of Mobile, telephone number 251-208-7454.

1.1 FORMS

A. PERFORMANCE BOND. Owner's modified Performance Bond form.

B. LABOR AND MATERIAL PAYMENT BOND. Owner's modified Payment Bond form.

C. E-Verify Documentation (Sample)

D. APPLICATION AND CERTIFICATION FOR PAYMENT - AIA Document G702 and AIA Document G703 and DBE Utilization Report

E. CERTIFICATE of SUBSTANTIAL COMPLETION – AIA Document G704-2017

F. CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS - AIA Document G706

G. CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS - AIA Document G706A.

H. CONSENT OF SURETY TO FINAL PAYMENT - AIA Document G707

I. Request for Taxpayer Identification Number and Certification, W-9 Form, and City of Mobile Vendor Information Form

J. City of Mobile DBE Utilization Report

PERFORMANCE BOND

Any singular reference to Contractor, Surety, Owner or other Party shall be considered plural where applicable.

KNOW ALL MEN BY THESE PRESENTS: That the Contractor, _____, _____,_____, hereinafter called the Principal, and _____ _____, hereinafter called the Surety, are held and firmly bound unto the **City of Mobile, P. O. Box 1827, Mobile, AL 36633**, hereinafter called the Owner, in the penal sum of _____ and xx/100 Dollars ($_____.00) for payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns for the faithful performance of a certain written Contract dated the _____ day of _____, 2022 entered into between the Principal and the City of Mobile for furnishing all labor, material, equipment and insurance and performing all Work required to properly complete James M. Seals, Jr. Park – Athletic Restrooms/Concession and Field Improvements (PR-041-20) 540 Texas Street, Mobile, Alabama, 36603 and Hackmeyer Park – Improvements Phase 2 (PR-034-21) 3810 Conway Drive South, Mobile, Alabama, 36608 a copy of which said Contract is incorporated herein by reference and is made a part hereof as if fully copied herein.

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall faithfully perform the terms and conditions of the Contract in all respects on its part and shall fully pay all obligations incurred in connection with the performance of such Contract on account of labor and materials used in connection therewith, and all such other obligations of every form, nature and character, and shall save harmless the Owner from all and any liability of every nature, kind and character which may be incurred in connection with the performance or fulfillment of such Contract or other such and liability resulting from negligence or otherwise on the part of such Principal and further save harmless the Owner from all cost and damage which may be suffered by reason of the failure to fully and completely perform said contract and shall fully reimburse and repay the Owner for all expenditures of every kind, character, and description which may be incurred by the Owner in making good any and every default which may exist on the part of the Principal in connection with the performance of said Contract; and further that the Principal shall pay all lawful claims of all persons, firms, partnerships, or corporations for all labor performed and material furnished in connection with the performance of the Contract, and that the failure to do so with such persons, firms, partnerships or corporations shall give them a direct obligation; and provided, however, that no suit, action, or proceedings by reason of any default whatever shall be brought on this bond after two years from the date on which the final payment on the Contract falls due, and provided, further, that if any alterations or additions which may be made under the Contract, or in the work to be done under it, or the giving by the Owner of any extensions of time for the performance of the Contract or any other forbearance being expressly waived. This obligation shall remain in full force and effect until the performance of all covenants, terms and conditions herein stipulated and after such performance, it shall become null and void.

In addition to any other legal mode of service, service of summons, and other process in civil actions brought in Mobile County may be had on the Contractor or the Surety on the bond by leaving a copy of the summons and complaint or other pleading or process with the Mayor of the City of Mobile which shall bind the principal Contractor and Surety to the mode of service above described and that the service shall be the same as personal service on the contractor or surety. This Bond is given pursuant to the terms of Alabama Code, Title 39-1-1, et. al., As Amended.

EXECUTED IN FOUR (4) COUNTERPARTS.

SIGNED, SEALED AND DELIVERED this ____ day of _____, 2022.

CONTRACTOR AS PRINCIPAL
Company: _____
(Corporate Seal)

By: _____
(Signature)

Name and Title: _____

SURETY
Company:_____
(Corporate Seal)

By: _____
(Signature)

Name and Title: _____

Resident Agent: _____
(Signature)

Name and Title: _____
Company Name:_____
Address: _____
_____
Phone and Fax: _____

Owner's Representative: Cassie Boatwright
REAM Director
PO Box 1827
Mobile, AL 36633
251-208-7454

LABOR AND MATERIAL PAYMENT BOND

Any singular reference to Contractor, Surety, Owner or other Party shall be considered plural where applicable.

KNOW ALL MEN BY THESE PRESENTS: That the Contractor**,** _____, _____, _____ , as Principal, and _____ _____, as Surety, are held and firmly bound unto the **City of Mobile, P. O. Box 1827, Mobile, AL 36633** (hereinafter called the "Obligee") in the penal sum of _____ and xx/100 ($_____.00) lawful money of the United States, for the payment of which sum well and truly to be made we bind ourselves, our heirs, personal representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has entered into a certain Contract with said Obligee, dated the ____ day of _____, 2021 (hereinafter called the "Contract") for furnishing all labor, material, equipment and insurance and perform all work required to properly complete James M. Seals, Jr. Park – Athletic Restrooms/Concession and Field Improvements (PR-041-20) 540 Texas Street, Mobile, Alabama, 36603 and Hackmeyer Park – Improvements Phase 2 (PR-034-21) 3810 Conway Drive South, Mobile, Alabama, 36608, which**, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH** that if said Principal and all subcontractors to whom any portion of work provided for in said Contract is sublet and all assignees of said Principal and of such subcontractors shall promptly make payments to all persons supplying him or them with labor, materials or supplies for or in the prosecution of the work provided for in such Contract, or in any amendment or extension of or additions to said Contract, and for the payment of reasonable attorney's fees, incurred by the claimant or claimants in suits on each bond, then the above obligations shall be void; otherwise to remain in full force and effect. **PROVIDED,** however, that this bond is subject to the following conditions and limitations.

(a) Any person, firm or corporation that has furnished labor, materials or supplies for or in the prosecution of the work provided for in said contract shall have a direct right of action against the Principal and Surety on this bond, which right of action shall be asserted in a proceeding instituted in the County in which the work provided for in said Contract is to be performed or in any county in which said Principal and Surety does business. Such right of action shall be asserted in a proceeding instituted in the name of the claimant or claimants for his or their use and benefit against said Principal and Surety or either of them (but not later than one year after the final settlement of said Contract) in which action such claim or claims shall be adjudicated and judgment rendered thereon.

(b) The Principal and Surety hereby designate and appoint _____ **Attorney-In-Fact,** as the agent of each of them to receive and accept service of process or other pleading issued or filed in any proceeding instituted on this bond and hereby consent that such service shall be the same as personal service on the Principal and/or Surety. In addition to any other legal mode of service, service of summons, and other process in civil actions brought in Mobile County may be had on the Contractor or the Surety on the bond by leaving a copy of the summons and complaint or other pleading or process with the Mayor of the City of Mobile which shall bind the principal Contractor and Surety to the mode of service above described and that the service shall be the same as personal service on the contractor or surety.

(c) The Surety shall not be liable hereunder for damage or compensation recoverable under any Workmen's Compensation or Employer's Liability Statute.

(d) In no event shall the Surety be liable for a greater sum than the penalty of this bond, or subject to any suit, action or proceeding thereon that is instituted later than two years after the final settlement of said Contract.

(e) This bond is given pursuant to the terms of Alabama Code, Title 39-1-1, et. al., As Amended.

EXECUTED IN FOUR (4) COUNTERPARTS.

SIGNED, SEALED AND DELIVERED this ____ day of _____, 2022

CONTRACTOR AS PRINCIPAL	**SURETY**
Company: _____	Company: _____
(Corporate Seal)	(Corporate Seal)
By: _____	By: _____
(Signature)	(Signature)
Name and Title:	Name and Title:_____
_____	

Resident Agent: _____
(Signature)

Name and Title: _____
Company Name: _____
Address: _____
_____
Phone and Fax: _____

Owner's Representative:

Cassie Boatwright
REAM Director
PO Box 1827
Mobile, AL 36633
251-208-7454

Company ID Number:

Approved by:

Employer	
Name (Please Type or Print)	
Signature	Date
Department of Homeland Secu[illegible] Division	
Name (Please Type or P[illegible]	Title
Signature	Date

SAMPLE

E-Verify

Company ID Number:

Information Required for the E-Verify Program **Information relating to your Company:**	
Company Name	
Company Facility Address	
Company Alternate Address	
County or Parish	
Employer Identification Num	
North American Industry Classification Systems Code	
Parent Company	
Number of Employees	
Number of Sites Verified for	

SAMPLE

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702 PAGE ONE OF PAGES

TO OWNER City of Mobile
P. O. Box 1827
Mobile, AL 36633-1827

PROJECT:

APPLICATION NO:

Distribution to:
☐ OWNER
☐ ARCHITECT
☐ CONTRACTOR
☐
☐

PERIOD TO:

FROM CONTRACTOR:

VIA ARCHITECT:

PROJECT NO:

CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM		$
2. Net change by Change Orders		$
3. CONTRACT SUM TO DATE (Line 1 ± 2)		$
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)		$
5. RETAINAGE:		
a. _____ % of Completed Work (Column D + E on G703)	$	
b. _____ % of Stored Material (Column F on G703)	$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)		$
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)		$
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)		$
8. CURRENT PAYMENT DUE		$
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)		$

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: _____ Date: _____

State of: County of:
Subscribed and sworn to before me this day of
Notary Public:
My Commission expires:

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . $ _____

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and onthe Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

AIA DOCUMENT G702 · APPLICATION AND CERTIFICATION FOR PAYMENT · 1992 EDITION · AIA · ©1992 THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., N.W., WASHINGTON, DC 20006-5292

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CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO:

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A	B	C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD					
	GRAND TOTALS								

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AIA® Document G704™ – 2000

Certificate of Substantial Completion

PROJECT:
(Name and address)

PROJECT NUMBER: /
CONTRACT FOR: General Construction
CONTRACT DATE:

OWNER: ☐
ARCHITECT: ☐
CONTRACTOR: ☐
FIELD: ☐
OTHER: ☐

TO OWNER:
(Name and address)

TO CONTRACTOR:
(Name and address)

PROJECT OR PORTION OF THE PROJECT DESIGNATED FOR PARTIAL OCCUPANCY OR USE SHALL INCLUDE:

The Work performed under this Contract has been reviewed and found, to the Architect's best knowledge, information and belief, to be substantially complete. Substantial Completion is the stage in the progress of the Work when the Work or designated portion is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. The date of Substantial Completion of the Project or portion designated above is the date of issuance established by this Certificate, which is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below:

Warranty **Date of Commencement**

ARCHITECT	BY	DATE OF ISSUANCE

A list of items to be completed or corrected is attached hereto. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Unless otherwise agreed to in writing, the date of commencement of warranties for items on the attached list will be the date of issuance of the final Certificate of Payment or the date of final payment.

Cost estimate of Work that is incomplete or defective: $0.00

The Contractor will complete or correct the Work on the list of items attached hereto within Zero (0) days from the above date of Substantial Completion.

CONTRACTOR	BY	DATE

The Owner accepts the Work or designated portion as substantially complete and will assume full possession at (time) on (date).

OWNER	BY	DATE

The responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance shall be as follows:
(Note: Owner's and Contractor's legal and insurance counsel should determine and review insurance requirements and coverage.)

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AIA® Document G706™ – 1994

Contractor's Affidavit of Payment of Debts and Claims

PROJECT: *(Name and address)*	**ARCHITECT'S PROJECT NUMBER:**	OWNER: ☐
		ARCHITECT: ☐
	CONTRACT FOR: General Construction	CONTRACTOR: ☐
TO OWNER: *(Name and address)*	**CONTRACT DATED:**	SURETY: ☐
		OTHER: ☐

STATE OF:
COUNTY OF:

The undersigned hereby certifies that, except as listed below, payment has been made in full and all obligations have otherwise been satisfied for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or Owner's property might in any way be held responsible or encumbered.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Consent of Surety to Final Payment. Whenever Surety is involved, Consent of Surety is required. AIA Document G707, Consent of Surety, may be used for this purpose

Indicate Attachment ☐ Yes ☒ No

The following supporting documents should be attached hereto if required by the Owner:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.
3. Contractor's Affidavit of Release of Liens (AIA Document G706A).

CONTRACTOR: *(Name and address)*

BY: _____
(Signature of authorized representative)

_____
(Printed name and title)

Subscribed and sworn to before me on this date:

Notary Public:
My Commission Expires:

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AIA® Document G706A™ – 1994

Contractor's Affidavit of Release of Liens

PROJECT: *(Name and address)*	**ARCHITECT'S PROJECT NUMBER:**	OWNER: ☐
	CONTRACT FOR: General Construction	ARCHITECT: ☐
TO OWNER: *(Name and address)*	**CONTRACT DATED:**	CONTRACTOR: ☐
		SURETY: ☐
		OTHER: ☐

STATE OF:
COUNTY OF:

The undersigned hereby certifies that to the best of the undersigned's knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens or encumbrances or the right to assert liens or encumbrances against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS:

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.

2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR: *(Name and address)*

BY:

_____
(Signature of authorized representative)

_____
(Printed name and title)

Subscribed and sworn to before me on this date:

Notary Public:
My Commission Expires:

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AIA® Document G707™ – 1994

Consent Of Surety to Final Payment

PROJECT: *(Name and address)*	**ARCHITECT'S PROJECT NUMBER:**	OWNER: ☐
	CONTRACT FOR: General Construction	ARCHITECT: ☐
TO OWNER: *(Name and address)*	**CONTRACT DATED:**	CONTRACTOR: ☐
		SURETY: ☐
		OTHER: ☐

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

, SURETY,

on bond of
(Insert name and address of Contractor)

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any of its obligations to
(Insert name and address of Owner)

, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:
(Insert in writing the month followed by the numeric date and year.)

_____
(Surety)

_____
(Signature of authorized representative)

Attest:
(Seal):

_____
(Printed name and title)

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CITY OF MOBILE, AL
VENDOR INFORMATION FORM

Company Information:

1. City Vendor Number:

2. Name of Company:

3. Company D.B.A. Name, if any:

4. Mailing Address:

5. Remittance Address:

6. Telephone:

7. Fax

8. Main Email:

Primary Contact:

9. Contact Name and Title:

10. Contact Phone:

11. Contact Fax:

12. Contact Email:

Alternate Contact (if applicable):

13. Alt. Contact Name and Title:

14. Alt. Contact Phone:

15. Alt. Contact Fax:

16. Alt. Contact Email:

City of Mobile Business License Information:

17. City of Mobile Business License No. (if required):

Please attach additional sheets if necessary.

Form **W-9**
(Rev. December 2011)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name/disregarded entity name, if different from above

Check appropriate box for federal tax classification:
☐ Individual/sole proprietor ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ►

☐ Other (see instructions) ►

☐ Exempt payee

Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
☐☐☐ – ☐☐ – ☐☐☐☐

Employer identification number
☐☐ – ☐☐☐☐☐☐☐

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here | **Signature of U.S. person** ► | **Date** ►

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

OFFICE OF SUPPLIER DIVERSITY

CITY OF MOBILE

DBE Compliance

DBE UTILIZATION REPORT

Return to Office of Supplier Diversity
Via email: archnique.kidd@cityofmobile.org
or
P.O. Box 1948
Mobile, AL 36633

CONTRACTOR:	Certified DBE: YES NO	Contract Start Date:
DESCRIPTION:		Estimated Completion Date:

This report is for the month of: (CHECK ONE):

JAN FEB MARCH APR MAY JUNE JULY AUG SEPT OCT NOV DEC

FINAL _____

Original Contract Amount	Total Amount of Contract Changes (change orders or amendments)	Final Contract Amount (include contract changes)	Payments to Date from City of Mobile	OFFICE USE ONLY (Verification)
$	$	$	$	

Instructions: List all DBEs utilized on the contract, whether or not the firms were originally listed for DBE goal credit. List actual amount paid to each DBE firm. If the established Percentage is not being met, please include a narrative description of the progress being made in DBE participation.

DBE SUBCONTRACTOR	DBE DESCRIPTION OF WORK	DBE SUBCONTRACT AMOUNT	DBE PAYMENTS THIS REPORT	PAYMENTS TO DATE	OFFICE USE ONLY (Verification)
		$	$	$	
		$	$	$	
		$	$	$	
		$	$	$	
TOTALS		$	$	$	

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT. SUPPORTING DOCUMENTATION IS ON FILE AND IS AVAILABLE FOR INSPECTION BY CITY OF MOBILE OFFICE OF SUPPLIER DIVERSITY PERSONNEL AT ANY TIME.

PRINT NAME: _____

SIGNATURE: _____, _____ ___/___/____
(Title) (Date)

SECTION 00700 STANDARD FORM OF GENERAL CONDITIONS

PART 1 GENERAL

A. This section includes the GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA Document A201, wherein the basis of payment is a Stipulated Sum; the document has been electronically modified to meet the Owner's requirements and shall be used for the Project.

AIA® Document A201™ – 2007

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)
James M. Seals, Jr. Park - Athletic Restroom/Concession and Site Improvements
Hackmeyer Park - Improvements Phase 2
Mobile, Alabama

THE OWNER:
(Name, legal status and address)
City of Mobile
Architectural Engineering Department
P. O. Box 1827
Mobile, Alabama 36633-1827

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

THE ARCHITECT:
(Name, legal status and address)
Maurin Architecture, PC
601 South Anthony Street
Mobile, Alabama 36603

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 BASIC DEFINITIONS

§ 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, Project Manual, specifications, and other similar materials.

§ 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

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§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

ARTICLE 2 OWNER

§ 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 ~~The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.~~

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or

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the portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the ~~site.~~ site, as may be required. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 ~~Unless otherwise provided in the Contract Documents, the~~ The Owner shall furnish to the Contractor ~~one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.~~ up to ten copies of the drawings and specifications as required for Contractor's execution of the Work. Any additional sets of documents that the contractor desires for construction of the Project will be issued to contractor at actual printing and handling costs.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

ARTICLE 3 CONTRACTOR

§ 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

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§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

3.3.4 Three (3) days after the opening of the Bids, the Contractor shall furnish for written approval, an outline of the education, experience and character of the Contractor's project manager, superintendent and engineer. Any future substitution must have prior written approval of the Architect.

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§ 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to ~~them.~~them.

3.4.4 The Contractor's or his Subcontractor's supervisors and workmen engaged on special work or skilled Work in any supervisory position or trade shall be qualified and have had sufficient education, training and experience as a recognized professional or master mechanic in such Work to perform it properly and satisfactorily as prescribed in the Contract Documents.

3.4.5 Any project manager, superintendent, engineer, foreman or workman employed by the Contractor or by a subcontractor who, in the sole opinion of the Architect, does not perform his Work in a proper and skillful manner or becomes party to disrespectful, intemperate, disorderly, intoxicated, or dishonest behavior, or uses foul language, fights, commits criminal act(s) falsifies records and construction, covers-up faulty Work or materials, does not comprehend or follow instructions, does not get along with the Architect or Owner's representative, or is otherwise objectionable, shall, at the written request by the Architect, be discharged 24 hours by the Contractor or Subcontractor employing such project manager, superintendent, engineer, foreman or workman, and shall not be employed again or any portion of the Work without the written consent of the Architect.

3.4.6 Should the Contractor fail to remove such person or persons specified in Article 3.4.5 hereinabove or fail to furnish suitable and sufficient machinery, equipment, materials or qualified labor force for the proper execution of the Work, the Architect may withhold all payments which are or may become due the Contractor or may suspend the Work until such orders are complied with.

3.4.7 Contractor shall abide by provisions of Section 14-1 and Section 14.2, Code of the City of Mobile, originally adopted December 10, 1991. Prohibiting Discrimination in Employment by Contractors, Subcontractors and Vendors performing Work and providing materials and supplies for the City of Mobile. A copy of said Code is located in the City's Projects Architectural Engineering Department. Certification of compliance with this requirement shall be made for all persons involved in the Work by the signature of the General Contractor on the Bid Form (Section 00410).

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

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§ 3.7 ~~PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS~~
PERMITS, FEES, NOTICES, AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure ~~and pay for the building permit as well as for~~ City of Mobile building permit without cost, and shall secure and pay for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

3.7.1.1 The Contractor shall secure building and other permits customarily obtained from the City of Mobile at no cost.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 **Concealed or Unknown Conditions.** If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

.1 ~~Allowances~~ allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

.2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

.3 ~~Whenever~~ whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

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§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, ~~promptly~~ within ten (10) business days after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals

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upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents ~~in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule,~~ with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect without action. Wherever Shop Drawings are required in these Specifications, Shop Drawings shall be submitted for approval before materials are fabricated. Drawings shall show complete details. The General Contractor shall check and approve them either in writing or by stamp before forwarding to the Architect. The Architect will mark copies "Approved" if correct; or, "Approved As Noted" if only minor corrections are necessary. If major corrections are necessary they will be noted on the Shop Drawings and they will be returned to the Contractor for correction and resubmission. Submit four (4) copies for Architect's and Owner's use plus the number of copies the contractor requires for his own use.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor

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shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect access to the Work in preparation and progress wherever located.

§ 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

§ 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity ~~that~~ which would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be

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liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

3.19 As applicable, the Contractor shall be responsible at the appropriate time during construction of the Project to have all permanent meters installed (electrical, water, gas, etc.) and all utilities connected prior to the time of Final Inspection. The Contractor shall pay all utilities costs until the Project is accepted by the City of Mobile.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number. "~~Architect" may also designate the Licensed Designer of the Project and may be an Engineer or Landscape Architect.~~

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative ~~during construction until the date the Architect issues the final Certificate for Payment.~~ (1) during construction (2) until all conditions necessary for the final completion and payment have been fulfilled and (3) with the Owner's concurrence, from time to time during the one-year period for correction of Work described in Section 12.2. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract ~~Documents.~~Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

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§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

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ARTICLE 5 SUBCONTRACTORS

§ 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 ~~Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract,~~ The apparent low bidder, within (3) days after bids are opened shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the ~~14 day~~ 14 day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. ~~If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.~~

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

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.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation ~~shall~~ may be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. ~~If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.~~

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.

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§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

§ 6.2.5 The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents. The total of all Change Orders on each contract shall not exceed ten percent (10%) of the contract price for each project and shall be subject to at least one of the following criteria:

.1 Minor changes for a total monetary value less than required for competitive bidding under the State Competitive Bid Laws.

.2 Changes for matters relatively minor and incidental to the original contract necessitated by unforeseen circumstances arising during the course of the Work.

.3 Emergencies arising during the course of the Work on the Contract.

.4 Changes or Alternates provided for in the original bidding where there is no difference in price on the Change Order from the original best bid on the Alternate.

.5 Changes of relatively minor items not contemplated when the plans and specifications were prepared and the project was bid which are in the public interest.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

.1 The change in the Work;

.2 The amount of the adjustment, if any, in the Contract Sum; and

.3 The extent of the adjustment, if any, in the Contract Time.

.4 There shall be attached to each Change Order a signed statement from the Architect containing the following:

A. A statement of what the Change Order covers and who instituted the Change Order and why it is necessary or desired.

B. A statement setting forth the reasons for using the Change Order method rather than taking new competitive bids.

C. A statement that all prices have been reviewed and found reasonable, fair and equitable and recommending approval of the same.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes

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in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

.2 Unit prices stated in the Contract Documents or subsequently agreed upon;

.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

.4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices ~~shall~~ may be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an ~~amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount.~~ allowance of 10% mark-up on Subcontractor's direct cost (actual cost of Labor & Materials) and 15% mark-up on a Contractor's direct (actual cost of Labor & Materials). In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

.1 Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;

.2 Costs of materials, supplies and equipment, including cost of transportation, ~~whether incorporated or consumed;~~ actually incorporated or consumed in the work;

.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented ~~from~~ by the Contractor or others;

.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work; and

.5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be

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reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Architect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

.1 No Work shall commence and no materials ordered until the Owner issues the written Notice to Proceed.

.2 The Work shall be commenced within ten (10) days of the date of a written Notice to Proceed.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the ~~Owner pending mediation and arbitration;~~ Owner; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

8.4 LIQUIDATED DAMAGES

8.4.1 Time is the essence of the Contract. Any delay in the completion of the Work as provided for in the Contract Documents will cause inconvenience to the public and loss and damage to the Owner in interest, and in additional administrative, architectural, inspection, and supervision charges.

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Therefore, a time charge equal to $250.00 per calendar day will be made against the Contractor for the entire period that any part of the Work remains uncompleted or any required closeouts documents are not acceptably submitted for more than 30 days after the time specified for the Substantial Completion of the Work, the amount of which shall be deducted by the Owner, and shall be retained by the Owner out of monies otherwise due the Contractor in the final payment, not s a penalty, but as liquidated damages sustained.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

.1 Unit Prices and Allowances, if stated in the Contract Documents, shall be identified within the Schedule of Values.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 ~~At least ten days before the date established for each progress payment, the~~ The Contractor shall submit to the Architect ~~an itemized Application for Payment prepared in accordance with the~~ on the first of each month; for Work done through the 25th of the preceding month, four (4) original, itemized Applications for Payment for Work completed in accordance with the accepted schedule of values, if required under Section ~~9.2,~~ 9.2., for completed portions of the Work. Such application shall be ~~notarized, if required,~~ notarized and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such ~~as~~ copies of requisitions from ~~Subcontractors~~ subcontractors and material suppliers, and shall reflect retainage ~~if provided for in the Contract Documents~~ and documents as follows:

.1 Until the final payment is made, the Owner shall pay ninety-seven and one half percent (97.5%) of the amount due the Contractor on account of progress payments (note: the 2-1/2% retainage is calculated by withholding the first 5% of the first 50% of the work completed); and

.2 The Contractor shall provide documentation substantiating that test, inspections and approvals for portions of Work included in an Application for Payment and required by the Contract Documents, or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction were made at the appropriate time.

§ 9.3.1.1 ~~As provided in Section 7.3.9, such~~ Such applications may include requests for payment on account of changes in the ~~Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.~~ Work, which have been authorized and approved by properly executed Change Order(s).

§ 9.3.1.2 ~~Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.~~ Such applications may Include requests for payment on account of changes in the Work, which have been authorized and approve by properly executed Change Order(s).

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

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§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

.1 defective Work not remedied;
.2 third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;
.3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
.4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
.5 damage to the Owner or a separate contractor;
.6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
.7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.3 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the

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Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

§ 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the ~~Architect or awarded by binding dispute resolution,~~ Architect, then the Contractor may, upon seven additional days' written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time ~~shall~~ may be extended appropriately and the Contract Sum ~~shall~~ may be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

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§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such ~~Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.~~ Work.

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed

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to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final ~~payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.~~payment, (5), contractors Affidavit of Release of Liens, (6) separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers (7) written warranty on Contractor's letterhead covering materials and labor for one year, and (8) the advertisement of completion. The Contractor shall provide proof of publication of Advertisement of completion in a local newspaper for four (4) consecutive weeks, as required in Title 39, Section 39-1-1, Subsection (f), of the Code of Alabama. The final 2.5% retained will not be paid until proof of publication is submitted and all written claims paid in full. This advertisement shall not begin until the City of Mobile has accepted the Project.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the ~~Contractor or by issuance of Change Orders affecting final completion,~~ Contractor, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

.1 ~~liens,~~ Claims, security interests or encumbrances arising out of the Contract and unsettled;

.2 failure of the Work to comply with the requirements of the Contract Documents; or

.3 terms of special warranties required by the Contract Documents.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall comply with all Federal, State and Local law regarding safety including the requirements of the Occupational Safety and Health Act of 1970, Public Law #91-596, latest revision. Contractor shall take all other reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

.1 employees on the Work and other persons who may be affected thereby;

.2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and

.3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

.4 The Contractor shall be responsible for damage done to buried cables and other utilities by its equipment and shall contact the appropriate offices prior to construction for information depth, etc., of utilities in the area.

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§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and ~~loss (other than damage or loss insured under property insurance required by the Contract Documents)~~ loss) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and ~~start-up~~ start-up, except to the extent that any such delay is attributable to the Contractor's objection to the persons or entities whom Owner shall have furnished to perform the task of removal of safe containment of such material or substance.

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§ 10.3.3 ~~To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.~~

§ 10.3.4 The Owner shall not be responsible ~~under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.~~ for materials or substances brought to the site by the Contractor regardless of whether such materials or substances were required by the Contract Documents.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence or wantonness on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner ~~shall indemnify~~ may reimburse the Contractor for all reasonable cost and expense thereby incurred.

§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency ~~shall~~ may be determined only as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

.1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;

.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;

.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;

.4 Claims for damages insured by usual personal injury liability coverage;

.5 Claims for damages, ~~other than to the Work itself,~~ because of injury to or destruction of tangible property, including loss of use resulting therefrom;

.6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;

.7 Claims for bodily injury or property damage arising out of completed operations; and

.8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18.

The Contractor shall take out and maintain during the life of the Contract no less than the following amounts of insurance with the Owner named as an additional insured. Contractor shall submit a Certificate of Insurance and a supplemental Attachment for Certificate of Insurance 25-2 (7/90), AIA Document G715, Insurance companies listed as the "Companies Affording Coverage"

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shall be authorized by the Secretary of the State of Alabama. Insurance produced out of the State of Alabama must be signed or counter signed by a Resident Agent of Alabama, with the Resident Agent's name, address and telephone number typed or printed on the face of the Certificate of Insurance.

.1 Workmen's Compensation and Employer's Liability Insurance: - Statutory-amount and coverage as required by law of place in which the Work is performed.

.2 Employee's Liability Insurance shall be provided for limits of liability not less than:

A.	Bodily Injury by Accident	$1,000,000 each accident
B.	Bodily Injury by Disease	$1,000,000 each employee

.3 The Contractor shall provide Broad Form (commonly termed Comprehensive) General Liability Insurance (including premises-product-completed operations) for limits of liability not less than:

A.	Bodily Injury	$1,000,000 each person $1,000,000 each occurrence
B.	Property Damage	$1,000,000 each occurrence; or
C.	Bodily Injury & Property Damage	$1,000,000 combined single limit

4. Such comprehensive policy shall include the following:

A. All liability of the Contractor, for the Contractor's Direct Operations.
B. Subcontractor's Operations.
C. Completed Operations Cover, thereby meaning any loss which shall occur after the contract has been completed, but which can be traced back to the Contract.
D. Contractual Liability, meaning thereby; any risk assumed by the Contractor under Hold Harmless Agreements or any other assumption of liability, but specifically Items 11.1.1.8.3G herein below
E. Broad Form Property damage Coverage, including Completed Operations.
F. Personal Injury Liability, with employee's exclusions removed.
G. The Contractor shall indemnify and save harmless the Owner against all loss, cost, or damaged on account of injuries to persons or property occurring in the performance of the Contract, including all reasonable attorney's fees incurred by the Owner, on account thereof.
H. Explosion and Collapse Hazard:
Included or ☒Not Applicable.
I. Underground Hazard:
Included or ☒Not Applicable.

5. The Contractor shall carry for himself and shall require that all Subcontractors and all Owners of Automobiles or trucks rented or hired on the contract carry until the Contract is completed. Comprehensive Automobile Liability Coverage for Bodily Injury and property Damage in amounts not less than the minimum amounts as indicated. The Contractor and Subcontractor shall also carry for themselves insurance for all non-owned and hired automobile at the limits of liability as indicated below:

A.	Bodily Injury	$1,000,000 each person $1,000,000 each occurrence
B.	Property damage	$1,000,000 each occurrence; or,
C.	Bodily Injury & Property damage	$1,000,000 combined single limit

6. Excess Liability: $2,000,000 limit

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7. Builder's Risk Coverage. The Contractor shall carry for the Owner, himself, and all Subcontractor's a Builder's Risk Policy to cover the full amount of the Contract during construction, fabrications or erection of any equipment.

8. A Surety authorized to do business in the State of Alabama shall furnish the required insurance.

9. The ACCORD™ Certificate must be signed or countersigned by a Licensed Resident Agent of the State of Alabama and the agent's name, address and telephone number must appear on the face of the certificate.

10. The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. best Company, Inc., if the bid price exceeds $50,000.00

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

§ 11.1.4 The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's ~~consultants~~ Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

§ 11.3 PROPERTY INSURANCE

§ 11.3.1 ~~Unless otherwise provided, the Owner~~ The Contractor shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional ~~deductibles.~~ deductibles (See 11.1.1 Supplement Builder's Risk Coverage). Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

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§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the ~~Owner~~ Contractor shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

~~§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.~~

~~§ 11.3.2 BOILER AND MACHINERY INSURANCE~~

~~The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds.~~

~~§ 11.3.3 LOSS OF USE INSURANCE~~

~~The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.~~

~~§ 11.3.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.~~

~~§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.~~

~~§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable~~

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~~conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.~~

~~§ 11.3.7 WAIVERS OF SUBROGATION~~

~~The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.~~

~~§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.~~

~~§ 11.3.9 If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is made and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.~~

~~§ 11.3.10 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute resolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.~~

§ 11.4 PERFORMANCE BOND AND PAYMENT BOND

§ 11.4.1 The ~~Owner shall have the right to require the Contractor to~~ Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising ~~thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.~~thereunder.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

11.4.3. The Labor and Material Payment Bond and Performance Bond shall each be for one hundred percent (100%) of the Contract price if the Contract Price is greater than $10,000.00

1. Cost of the bonds shall be included in the bid.

2. Bonds shall be submitted with the executed agreement on provided form(s).

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3. Power of Attorney is required for both bonds.

4. A Surety authorized to do business in the State of Alabama shall furnish both bonds.

5. A Surety licensed to do business in the State of Alabama must execute the bonds.

6. ~~Each bond must be signed or countersigned by a Resident Agent of the State of Alabama.~~

7. The Surety must have a minimum rating of A/Class VI as reported in the latest issue of Best's Key Rating Guide Property-Casualty, published by Alfred M. Best Company, Inc., if the bid price exceeds $50,000.00.

8. The Surety company shall be required to execute AIA Document G-707, "Consent of Surety to Final Payment" prior to Final Payment being made to the Contractor.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

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§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the ~~place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.~~
State of Alabama.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

13.2.3 No assignment of the Contract shall be made without the written permission of Surety providing bonding and the City of Mobile.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public

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authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

13.5.7 Test, inspections or approvals made in addition to the Architects normal design and contract administration services caused by the Contractor shall be paid for by the Contractor. The normal service schedule is contained in Article 2.8.1 of AIA B102-2007 as amended by the Owner and is available to Contractor on request.

13.5.8 The Contractor must call the Urban Development Department of the City of Mobile for their inspections and approval at the times required by the Urban Development Department, as well as notify the Architect, Consulting Engineer, and/or Test Laboratory, for inspection and approval of sub-grade conditions, under slab and footing Conditions, vapor barrier placement, reinforcing steel placement, all structural connections, electrical, mechanical, etc. None of the above will be accepted that have been covered up before receiving approval of the Architect or his Consultant.

§ 13.6 INTEREST

~~Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.~~

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 13.7.

13.8 COMMENCEMENT OF STATUTORY LIMITATION PERIOD

13.8.1 As between the Owner and Contractor:

1. Before Substantial Completion. As to acts or failures to act occurring prior to the relevant date of Substantial Completion, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than such date of Substantial Completion;

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2. Between Substantial Completion and Final Payment. As to acts or failures to act occurring subsequent to the relevant date of Substantial Completion and prior to the final payment, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all event snot later than the date of issuance of the final Certificate for Payment; and

3. After Final Payment. As to acts or failures to act occurring after the relevant date of the final Payment, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the date of any act or failure to act by the Contractor pursuant to any Warranty provided under Section 3.5, the date of any correction of the Work or failure to correct the Work by the Contractor under Section 3.5, the date of any correction of the Work or failure to correct the Work by the Contractor under Section 12.2, or the date of actual commission of any other act or failure to perform any duty or obligation by the Contractor or Owner, whichever occurs last.

13.9 SUBSTITUTION OF MATERIALS AND EQUIPMENT

13.9.1 Whenever a material, article or piece of equipment is identified on the Drawings or in the Specifications by reference to manufacturer's or vendor's names, trade names, catalog numbers, or the like, it is so identified for the purpose of establishing a standard, and any material, article, or piece of equipment of other manufacturers or vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or piece of equipment so proposed is, in the opinion of the Architect, of equal substance, appearance and function. It shall not be purchased or installed by the Contractor without the Architect's written approval.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

.1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

.2 An act of government, such as a declaration of national emergency that requires all Work to be stopped;

.3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work ~~executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.~~ executed.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

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§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or

.4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time ~~shall~~ may be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of ~~such termination, along with reasonable overhead and profit on the Work not executed.~~ termination.

Init.
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ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated ~~by written notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party must be initiated~~ within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant ~~first recognizes~~ acting with due diligence, reasonable should have first recognized the condition giving rise to the Claim, whichever is later. Claims must be initiated by written notice to the Architect and the other party.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Change Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker.

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the ~~Work.~~ Work giving rise to such claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 INITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been

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rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The ~~Initial Decision Maker~~ Architect will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the ~~Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion,~~ Architect reasonably concludes that, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons ~~therefor;~~ therefore; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties ~~but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.~~

~~**§ 15.2.6** Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.~~

~~**§ 15.2.6.1** Either party may, within 30 days from the date of an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. If such a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.~~

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall not be subject to mediation as a condition precedent to binding dispute resolution.

~~**§ 15.3.2** The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in~~

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writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.

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SECTION 01010 SUMMARY OF THE WORK

PART 1-GENERAL

1.1 SECTION INCLUDES

A. Summary of Work: Contract, contractor use of premises.

B. Contract Considerations: Contingency allowance, schedule of values, applications for payment, change procedures, alternates.

C. Coordination and Meetings: Coordination, field engineering, cutting and patching, meetings, progress meetings, examination, preparation.

D. Submittals: Submittal procedures, construction progress schedules, proposed products list, shop drawings, product data, samples, manufacturers' installation instructions, manufacturers' certificates.

E. Quality Control: Quality assurance - control of installation, Tolerances, References, Mock-ups, Manufacturers' field services and reports.

F. Construction Facilities and Temporary Controls: Electricity, temporary lighting for construction purposes, heat, temporary ventilation, telephone service, water service, temporary sanitary facilities, barriers and fencing, exterior enclosures, protection of installed work, security, access roads, parking, progress cleaning and waste removal, project identification, field offices and sheds, removal of utilities, facilities, and controls.

G. Material and Equipment: Products, transportation, handling, storage, and protection, products options, substitutions.

H. Contract Closeout: Contract closeout procedures, final cleaning, adjusting, project record documents, operation and maintenance data, spare parts and maintenance materials, warranties.

1.2 CONTRACT

A. Summary of Work - PART B:

1. James M. Seals, Jr. Park Base Bid:

This project shall include the demolition of the existing Restroom/ Concession building, the construction of a new Restroom/ Concession building to replace the demolished building, grading upgrades to the infields only of both the Baseball and Softball fields on site, replacement of existing concrete sidewalks and maintenance driveway surrounding the new Restroom/ Concession building and replacement of the sidewalks and bleacher pad on the north side of the baseball field in order to drain properly away from the Baseball Field. This scope is defined in more detail as follows:

a. Demolition: Demolish the existing building complete. Cap & safe off all utilities feeding the existing building in order to reconnect with new building as per the design. Cap & safe off the existing power outlet at wood post to the south of the existing building. Demolish the area of sidewalk to the north of the baseball field per the drawings as it holds water. Demolish the existing maintenance driveway complete per the civil design. Remove one (1) existing pine tree as shown on the Drawings.

b. New Restroom/Concession Building: Construct a new building with all new mechanical, electrical and plumbing equipment per the drawings. The new building shall be constructed with 8 in cmu walls & porch columns, with the first (5) courses to be split face block and the remaining courses above to be smooth face. The 8" cmu screen walls for the A/C compressor closet on the east side of the building, shall be constructed from screen block as per the drawings. The toilet room partitions shall be constructed from 6 in smooth face cmu but the bottom course shall be open for maintenance to easily hose down the room and each partition space. The new roof shall be constructed as per the drawings and specifications – note the specified roof warranty requirements. All new man doors, transoms, and roll-up service windows & countertops to be installed per the drawings.

c. Site Furnishings: All (4) existing bleachers are to be removed complete. New bleachers shall be installed per manufacturer's recommendations to replace those removed.

d. Mechanical: Only the Concession Room and the Electrical Room shall have air conditioning service. The (3) restrooms shall each have a ceiling mounted heater in order to maintain min. temperature during freeze and for ventilation. These heaters and air conditioners shall have remote sensors mounted in the conditions spaces with controllers installed within in the Electrical Room.

e. Lighting: The new building is to have all new lighting interior and exterior as specified in the drawings. The project scope does not include any adjustments to the existing site or Ballfield lighting

f. Fountains: Install (2 total) new high-low & bottle filler drinking fountains, (1) on the exterior east and west side of the new building. Remove the (2) existing concrete drinking fountains at the far ends of each dugout at the Softball field as shown on the drawings. Cap and safe off any water supply lines to the demolished drinking fountains.

g. Sidewalks: Demolish existing concrete sidewalks and reconstruct new sidewalks as shown on the drawings. The new flatwork to be constructed around the bleachers at the Baseball field (north side) shall be installed to shed water away from the ball fields as details on drawings. All flatwork around the new building shall be installed to shed water away from the new building and the existing ballfields seating areas etc.

h. Fencing: Install chain link fence panel with full width door & transom above on the new exterior A/C compressor closet for security as per the drawings.

i. Signage: New wall signage for identification of all building entrances and metal building signage as per the drawings.

2. Hackmeyer Park Base Bid – PART C:
   The project shall include the installation of a new 18 hole disc golf course, new parallel parking in the right-of-way, a new monument sign, new ADA crosswalks from the neighborhood sidewalks to the park, new tree & landscape plantings as designed, a new park perimeter wood post "fence," new shading devices above existing playground equipment, installation of a new fitness center, improvements to the dog park and fencing, installation of additional park furnishings, drainage corrections around the existing sidewalks, playground and within the wooded area as designed. This scope is defined in more detail as follows:
   a. Demolition: Remove existing aluminum chain link fencing and hardware around the Dog Yard. All posts to remain in place. Salvage all fencing removed for the Owner.
   Remove all existing wood posts along Conway Drive South. The existing 8x8 wood posts along Holyhead Drive are to remain in place. Remove the existing PIP slab coating at each of the three (3) existing fitness centers complete.
   b. Security Camera: New cameras on pole to be installed at both ends of the dog yard per drawings and specifications.
   c. New Fitness Center: Construct and install per drawings, specifications and manufacturer's instructions.
   d. PIP Slab Coating: After removal of the existing surfacing material has been completed, a new PIP surface to be installed complete on the (3) existing fitness centers per manufacturers specifications.
   e. Disc Golf Course: The City owns (18) disc golf goals to be installed on this site per the course design shown in the drawings. New T's to be constructed at each goal. New course signage to be installed. See the drawings for all locations, details and specifications. Gravel path per specifications and civil design.
   f. Plumbing: Install new dog fountain per design.
   g. Lighting: Not in Scope
   h. Fountains: Install (1) new dog drinking fountain within the existing dog yard per drawings and specifications.
   i. Sidewalks: Install new 4" sidewalk per the plans and specifications. Replace existing cracked sidewalk sections per plans and specifications.
   j. Wood Posts: Install new wood posts in place of those removed along Conway Drive. Install new 8x8 posts to complete to perimeter along Holyhead Drive. Match post type, spacing and orientation of the existing 8x8s on Conway Drive.
   k. Drainage: Make drainage corrections per design around the existing playground and inlets to the south and east side of the park as per the drawings. Install new drainage inlets and swales in the wooded area per the drawings.
   l. Signage: New signage for the disc golf course and metal letters at the new monument sign, both as per the drawings and specifications.
   m. Landscaping: Install new trees in the right-of-way and around the south side of the existing dog yard. Install grass plant beds around the new paths. All planting to be per the specifications and drawings.
   n. Gabion Baskets: the baskets are to be installed throughout the site for the following components; the benches attached to the new monument sign, the new benches along the gravel path through the wooded section of the disc golf course

and the side walls of the new pedestrian “bridges” or culverts along the new gravel path in the wooded area. See drawings and specifications.
All gabion benches to receive composite wood material tops for seating, see drawings.

o. Furniture: Install new metal benches per the Specifications and Drawings.

p. ADD ALTERNATE NO. 1: Shading Devices Above Existing Playground: Install (2) separate shading devices as per the manufacturer’s instructions and specifications. Each device will have (4) corner posts with proper fall clearances required around each playground gym. The existing swing set will not have a device installed above for this scope of work.

All construction sites for City of Mobile projects shall be undertaken in accordance with the Clean Water Act; the Alabama Water Pollution Control act; the current version of the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas; and the current version of the Mobile, Alabama City Code Chapter 17 Stormwater Management and Flood Control.

B. Contract Description: Stipulated sum.

1.3 CONTRACTOR USE OF PREMISES

A. Part B – James M. Seals, Jr. Park, Limit demolition and construction of the Restroom/ Concession building to allow continued Owner occupancy of the ballfields, the corresponding bleachers and dug-outs, parking lot, as well as access to each, that is complete, useable and open to the public during the Spring season or by February 2023. Demolition of the Restroom Building, if its to be completed first on site, will need to be complete by that time and the building footprint to be secured from Public access.

Obey all Facility Regulations and coordinate access and schedule of work with Project Manager.

B. Part C – Hackmeyer Park Improvements Phase 2, Limit demolition and construction of all components to allow continued Owner occupancy of the south end or Phase one of the park.

Obey all Facility Regulations and coordinate access and schedule of work with Project Manager

1.4 CONTINGENCY ALLOWANCE

A. Include in the Contract the stipulated amount for use upon Owner's instruction.

B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit are included in Change or

Field Orders authorizing expenditure of funds from this Contingency Allowance.

1.5 SCHEDULE OF VALUES

A. Submit Schedule of Values on AIA Form G703 within ten (10) calendar days of notification of project award.

1.6 APPLICATIONS FOR PAYMENT

A. Submit two signed and notarized originals of each application on AIA Form G702 and AIA Form G703. Submit Lien Release Waivers, including from subcontractors and major suppliers, with each pay application.

B. Content and Format: Utilize Schedule of Values, AIA Form G703, for listing items in Application for Payment.

C. Payment Period: Monthly, except for final payment of retainage after all Close Out documents are submitted and approved.

1.7 CHANGE ORDER PROCEDURES

A. All contract changes involving a change in scope, payment and/or time shall be made by change order.

B. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation or Contractor's request for a Change Order as approved by Owner.

1.8 ALTERNATE BID ITEMS

A. Alternates quoted on Bid Form, if any, will be reviewed and accepted in the order listed.

B. Coordinate related Work and modify surrounding Work as required.

C. Schedule of Alternates: Listed on bid form, as applicable.

1.9 COORDINATION

A. Coordinate scheduling, submittals, and Work at the facility to ensure an efficient and orderly sequence and to facilitate the continued uninterrupted use of the Facility.

B. Request Utility interruptions at least 72 hours in advance. Note that due to scheduling in the facility, utility interruptions must be approved.

1.10 FIELD ENGINEERING

A. Establish elevations, lines, and levels and certify that elevations and locations of the Work conform to the Contract Documents. Verify existing conditions.

B. Contractor shall field verify all measurements and quantities required for a complete installation.

1.11 PRECONSTRUCTION MEETINGS

A. Owner will schedule a pre-construction meeting after contract award for all affected parties.

1.12 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the Work at pre-approved intervals.

B. Preside at meetings, record minutes, and distribute copies within two days to those affected by decisions made.

1.13 CONSTRUCTION PROGRESS SCHEDULES

A. Submit initial progress schedule in duplicate within five (5) calendar days after date of notice of award of project for Project Manager's review.

B. Submit revised schedules with each Application for Payment, identifying changes since previous version. Indicate estimated percentage of completion for each item of Work at each submission.

1.14 SHOP DRAWINGS

A. Shop Drawings for Review: Submit to Project Manager/Engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

B. Submit four copies for use by the owner plus the number of copies that Contractor requires. Electronic submittals may be acceptable with prior approval of the Project Manager and Engineer. Close Out documents shall include electronic and hard copies of all submittals.

1.15 QUALITY ASSURANCE - CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' written instructions.

C. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

D. Supply certification from manufacturer that the installed Work meets or exceeds all manufacturers' requirements.

1.16 EXAMINATION

A. Verify that existing site conditions and subsurfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.

B. Verify that utility services are available, of the correct characteristics, and in the correct location.

1.17 PREPARATION

A. Prepare surfaces prior to applying next material installation.

1.18 TOLERANCES

A. Monitor fabrication and installation tolerance control of installed Products over suppliers, manufacturers, Products, site conditions, and workmanship, to produce acceptable Work. Do not permit tolerances to accumulate. Comply fully with manufacturers' tolerances.

1.19 REFERENCES

A. Conform to reference standards by date of issue current as of date of Contract Documents.

B. Should specified reference standard conflict with Contract Documents, request clarification from Project Manager before proceeding.

1.20 ELECTRICITY

A. Unless otherwise provided for, Contractor shall be allowed to utilize power from the facility in moderate amounts.

B. Provide power outlets for construction operations, branch wiring, distribution boxes, and flexible power cords as required.

1.21 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Provide and maintain temporary lighting for construction operations as may be required.

B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.

1.22 WATER SERVICE

A. Owner shall provide suitable potable water in moderate quantities without cost to the Contractor.

1.23 TEMPORARY SANITARY FACILITIES

A. Contractor to provide temporary sanitary facilities as needed located at the facility.

1.24 BARRIERS AND FENCING

A. Provide barriers and fencing as needed to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from dust, debris and damage.

1.25 PROTECTION OF INSTALLED WORK

A. Protect installed Work and provide special protection where specified in individual specification sections. Prohibit traffic or storage upon grass or paving surfaces.

1.26 SECURITY

A. Provide security and facilities to protect Work and existing facilities from unauthorized entry, vandalism, or theft.

1.27 ACCESS ROADS & HAULING

A. Maintain temporary access routes through the public thoroughfare and parking areas to serve the construction area as required without obstructing traffic or blocking access for facility staff or participants. Provide drive pads as required.

B. Restore site to pre-construction condition. Fill ruts, replace broken or damaged amenities, sod disturbed areas.

1.28 PARKING

A. Arrange for temporary parking areas to accommodate construction personnel on site. Do not block traffic.

1.29 PROGRESS CLEANING AND WASTE REMOVAL

A. Collect and maintain work areas free of waste materials, debris, and rubbish on a daily basis. Maintain site in a clean and orderly condition. Provide refuse

containers and dispose of construction debris legally off site. The Owner may request load tickets from landfills permitted to accept construction debris.

1.30 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities and materials, prior to Substantial Completion review.

B. Clean and repair damage caused by installation or use of temporary work.

C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

1.31 PRODUCTS

A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work.

1.32 TRANSPORTATION, HANDLING, STORAGE AND PROTECTION

A. Transport, handle, store, and protect Products in accordance with manufacturers' instructions.

1.33 PRODUCT OPTIONS

A. Products Specified by Naming One Manufacturer or equal: Products of manufacturer named approved as "Basis of Design". Equal alternate products to be approved by Owner as Substitutions. Submit product data as required in SUBSTITUTIONS.

1.34 SUBSTITUTIONS

A. Architect/Engineer will consider requests for Substitutions only within 10 days after date established in Notice to Proceed. For Pre-Bid approved Substitutions, submit request 7 calendar days or more before bid date with all back up data to show that all characteristics of the Basis of Design product are met with the substituted product or material.

B. Document each request with complete backup data substantiating compliance of proposed Substitution with all characteristics of the materials specified in the Contract Documents.

C. Submit three copies of request for Substitution for consideration. Limit each request to one proposed Substitution.

D. Substitution shall indicate all product properties and show that they are equal to

that Specified.

E. Acceptance or Rejection of Pre-Bid Substitution Requests will be issued by Addendum.

1.35 FINAL CLEANING

A. Execute final cleaning prior to final inspection of work area. User may occupy portions of the work incrementally as the work is completed and accepted. Entire project to be ready for use by User once all areas of work are completed.

B. Clean debris from site and drainage systems.
C. Remove waste and surplus materials, rubbish, and construction facilities from the facility and the site. Leave site in raked and smooth condition.

1.36 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of Contract Documents to be utilized only for record documents.

B. Record actual revisions to the Work. Record information concurrent with construction progress.

C. Specifications: Legibly mark and record at each Product section a description of actual Products installed.

D. Record Documents and Shop Drawings: Legibly mark each item to record actual construction.

E. Submit documents to Project Manager with claim for final Application for Payment.

F. Submit 2 paper copies and 1 disc with pdf copies to include:

1. As built drawings and specifications
2. Approved submittals
3. Warrantees and guarantees
4. Certificate of Occupancy or Letter of Completion from Permitting Department or other agencies, as applicable.

1.37 WARRANTIES

A. Product and Manufacturer’s Warranties shall be provided per specifications.

B. In addition, all materials and labor shall be warranted for a minimum of one year after Substantial Completion of the entire project. Contractor to promptly repair all deficiencies within that time. A warranty inspection shall be scheduled by the Owner, with the Contractor and Owner’s representative, before the end of the

warranty period, in order to review the work and note deficiencies for the Contractor to correct. Said meeting may be waived if no deficiencies are noted.

PART 2-PRODUCTS

Not Used.

PART 3-EXECUTION

Not Used.

END OF SECTION

SECTION 01210

ALLOWANCES

PART 1-GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Allowances will be utilized to:

1. Defer selection of certain items until more information is available.

2. Provide for discretionary installation of materials where exact and specific conditions cannot be determined in advance.

3. Provide for the discretionary use of labor where tasks and time frames cannot be determined in advance.

B. Include in Total Bid a stipulated lump sum allowance amount as specified in this Section.

1.3 ALLOWANCE

A. Include in the Total Base Quote a stipulated allowance(s) as indicated on the Quote Form for the use upon Owner's instruction. Upon Contractor inspection and Owner approval, any additional work that may be required, but not covered in the original Scope of Work (Base Scope Quote), shall be added to the scope and cost charged against the Contingency Allowance. Contractor's cost for products, delivery, installation labor, insurance, payroll, bonding, equipment rental and overhead and profit will be included in the Allowances. Contractor's markups on allowances are limited to 10% for subcontractor's work and 15% for his own forces.

B. Use of Contingency Allowance(s) shall be approved in writing by the Owner before any materials are ordered or work performed.

C. Upon completion of the Work, any unused portion of the Allowances shall be credited back to the City of Mobile in the form of a Change Order.

D. Contractor shall provide a detailed proposal of the work with overhead and profit broken out. Such proposals shall include proposals from subcontractors, also showing their detailed proposal with overhead and profit broken out.

1.4 SELECTION AND PURCHASE

A. Advise the Project Manager when final selection and purchase of allowance item must be complete to avoid delay.

1.5 SUBMITTALS

A. Request for Use of Allowance: Submit proposals for approval that detail and break out costs for contractors and subcontractor's markups.

B. After Use of Allowance: Submit invoices to show quantity delivered to the site for each allowance.

PART 2-PRODUCTS

Not used

PART 3-EXECUTION

3.1 INSPECTION

A. Promptly inspect all Allowance items upon delivery. Immediately report any shortage, damage, or defects to Project Manager.

3.2 PREPARATION

A. Coordinate materials and installation to assure that each item is integrated with related construction activities.

3.3 ALLOWANCE SCHEDULE

A. James M. Seals, Jr. Park: Include as a Contingency Allowance the lump sum amount of twenty five thousand and 00/100 Dollars ($25,000.00).

B. Hackmeyer Park: Include as a Contingency Allowance the lump sum amount of twenty five thousand and 00/100 Dollars ($25,000.00).

C. Hackmeyer Park: Include as an Disc Golf Course Signage Allowance the lump sum amount of five thousand and 00/100 Dollars ($5,000.00).

END OF SECTION

SECTION 01220 UNIT PRICES

PART 1-GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Measurement.
2. Payment.

1.3 UNIT PRICES

A. Provide unit prices for items listed, for inclusion in Contract, guaranteed to apply for duration of Project as basis for additions to or deductions from Contract Sum.

B. Actual quantities and measurements supplied or placed in the Work will determine payment.

C. Payment includes full compensation for all required labor, Products, tools, equipment, services, and incidentals, and for erection, application, or installation of an item of the Work.

PART 2-PRODUCTS

Not used

PART 3-EXECUTION

3.1 UNIT PRICE SCHEDULE

A. Provide and install trash receptacle, surface mounted to the concrete, per the specifications. Include placement, fasteners, and all other necessary construction components for installation

1. Unit of measure: Per Each.
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and Installed.

B. Unsuitable Soil Material – Cubic Yards In Place, includes excavation, haul off and disposal of unsuitable material. Unit of measure: Per Square Yard.

1. Unit of Measure: Cubic Yard
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

C. Provide and install one (1) walking trail light pole, fixture and all wiring components required for a 60’ extension per the specifications and drawings.

1. Unit of measure: Per Each.
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

D. Provide and install 4” concrete flatwork (sidewalks, fountain pads, etc) per detail. Include excavation, fill, compaction, grading, concrete, reinforcement, disposal, placement, and all other necessary construction components for installation.

1. Unit of measure: Per Square Foot
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

D. Provide and install 10’ long chain link fence section to include one intermediate pole, fabric, top rail, bottom rail, and all hardware including grading, placement, concrete, and all other necessary construction components for installation.

1. Unit of measure: Per Each.
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

E. Demolish and properly dispose offsite existing concrete flatwork (sidewalks) as specified on drawings. Include excavation, sawing, jack hammering, loading, haul off site, and proper disposal.

1. Unit of measure: Per Square Feet.
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

F. Provide and install Asphalt Patch as specified. Include excavation, fill, compaction, grading, disposal, placement, footings, and all other necessary construction components for installation.

1. Unit of measure: Per Cubic Yard
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed

G. Provide and install solid sod, Bermuda. Include grading, placement, and all other necessary construction components for installation.

1. Unit of measure: Cubic Yard
2. Basis of payment:
   a. Contract Sum to be based on quantities material provided and installed.

END OF SECTION

SECTION 01230 ALTERNATIVE BID ITEMS

PART 1- GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section identifies each Alternate and describes basic changes to Work only when that Alternate is made a part of the Work
B. Base Bid and Alternates include costs of all supporting elements required, so that the combination of Base Bid and any Alternates are complete.
C. The scope of work for Alternates shall be in accordance with applicable Drawings and Specifications.
D. Except as otherwise indicated, complete work described in Alternates with no increase in Subcontract Time.
E. This section includes non-technical descriptions of Alternates. Refer to specific sections of the Specifications and to Drawings for technical descriptions of Alternates.
F. Submit bids for Base Bid and all Alternates listed on Bid Form. Failure to quote an amount, or insertion of the words "no bid," "none" or words of similar meaning, will be considered as not completing the proposal and may constitute disqualification of entire bid, at City's discretion. When there is no change in base bid due to using the Alternate, use the words "No Change". The words "No Change" will be interpreted to mean that work described in the Alternate shall be completed at no adjustment or change in cost of Base Bid.

1.3 PROCEDURES

A. Alternates will be exercised at the option of Owner, and in number order.

B. Coordinate related work and modify surrounding work as required to complete the work, including changes under each Alternate, when acceptance is designated in Owner/Contractor Agreement.

1.4 DESCRIPTION OF ALTERNATES

A. Hackmeyer Park, Phase 2– PART C Alternate #1 (Additive): Shading Devices Above Existing Playground: Install (2) separate shading devices as per the manufacturer's instructions and specifications. Each device will have (4) corner posts with proper fall clearances required around each playground gym. The existing swing set will not have a device installed above for this scope of work.

PART 2-PRODUCTS Not used

PART 3-EXECUTION Not used

END OF SECTION

SECTION 013100 PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:

1. General project coordination procedures.
2. Administrative and supervisory personnel.
3. Coordination drawings.
4. Requests for Information (RFIs).
5. Project meetings.

B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.

C. Related Sections:

1. Division 1 Section "Execution Requirements"
2. Division 1 Section "Project Record Drawings" for coordinating closeout of the Contract.

1.3 DEFINITIONS

A. RFI: Request from Owner, Architect, or Contractor seeking information from each other during construction.

1.4 COORDINATION

A. Contractor shall be responsible for coordinating all trades of his contract, Owners Contractors, coordinating construction sequences and schedules, and coordinating actual installed location and interface of work.

B. Contractor shall supervise and direct the development of coordination drawings showing comprehensive coordination and integration of all Work of this project including, but not

limited to, structural, architectural mechanical, plumbing, fire protection, electrical disciplines, and Owners Contractors.

C. Coordination drawings are intended to assist Contractor and all trades during construction and may be used to supplement shop drawings, record drawings, and other required submittals.

D. Coordination: Each contractor shall supervise and direct construction operations with those of subcontractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components with other contractors to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

E. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.

1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

F. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

1. Preparation of Contractor's construction schedule.
2. Preparation of the schedule of values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Preinstallation conferences.
7. Project closeout activities.
8. Startup and adjustment of systems.
9. Project closeout activities.

1.5 KEY PERSONNEL

A. Key Personnel Names: Within 5 days of Notice to Proceed, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site.

Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and email addresses. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.

1. Post copies of list at site. Keep list current at all times.

1.6 REQUESTS FOR INFORMATION (RFIs)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

1.7 PROJECT MEETINGS

A. General: Attendance of subcontractors and superintendent at a weekly progress meeting is required.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01320 CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:

1. Start-up construction schedule.
2. Contractor's construction schedule.
3. Field condition reports.
4. Special reports.

1.3 INFORMATIONAL SUBMITTALS

A. Format for Submittals: Submit required submittals in the following format:

1. PDF electronic file.

B. Start-up construction schedule.

1. Approval of cost-loaded start-up construction schedule will not constitute approval of schedule of values for cost-loaded activities.

C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

D. Field Condition Reports: Submit at time of discovery of differing conditions.

E. Special Reports: Submit at time of unusual event.

F. Existing Condition Photos: Submit prior to onsite mobilization to record existing conditions. If, during construction, damage occurs by others, notify Project Manager right away.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

A. Time Frame: Extend schedule from date established for the Notice to Proceed to date of final completion.

B. Activities: Treat each story or separate area as a separate numbered activity for each principal element of the Work. Show the following:

1. Activity Duration
2. Procurement Activities: Include procurement process activities for long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
3. Submittal Review Time: Include review and resubmittal times indicated in Division 1 Section "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
4. Startup and Testing Time: Include not less than 15 days for startup and testing.
5. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.

C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.

1. Phasing: Arrange list of activities on schedule by phase.
2. Work Restrictions: Show the effect of the following items on the schedule:
   a. Coordination with existing construction.
   b. Limitations of continued occupancies.
   c. Uninterruptible services.
   d. Partial occupancy before Substantial Completion.
   e. Use of premises restrictions.
   f. Provisions for future construction.
   g. Seasonal variations.
   h. Environmental control.

D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.

E. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:

1. Unresolved issues.
2. Unanswered RFIs.
3. Rejected or unreturned submittals.
4. Notations on returned submittals.

2.2 START-UP CONSTRUCTION SCHEDULE

A. Bar-Chart Schedule: Submit start-up horizontal bar-chart-type construction schedule within seven days of date established for the Notice to Proceed .

B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 90 days of construction.

2.3 CONTRACTOR'S CONSTRUCTION SCHEDULE (CPM SCHEDULE)

A. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Using the start-up network diagram, prepare a skeleton network to identify probable critical paths.

1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:
   a. Preparation and processing of submittals.
   b. Mobilization and demobilization.
   c. Purchase of materials.
   d. Delivery.
   e. Fabrication.
   f. Utility interruptions.
   g. Installation.
   h. Work by Owner that may affect or be affected by Contractor's activities.
   i. Testing and commissioning.
   j. Punch list and final completion.
   k. Activities occurring following final completion.
2. Critical Path Activities: Identify critical path activities, including those for interim completion dates. Scheduled start and completion dates shall be consistent with Contract milestone dates.
3. Format: Mark the critical path. Locate the critical path near center of network; locate paths with most float near the edges.

B. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using a network fragment to demonstrate the effect of the proposed change on the overall project schedule.

C. Initial Issue of Schedule: Identify critical activities. Prepare tabulated reports showing the following:

1. Contractor or subcontractor and the Work or activity.
2. Description of activity.
3. Principal events of activity.
4. Immediate preceding and succeeding activities.
5. Early and late start dates.
6. Early and late finish dates.
7. Activity duration in workdays.

D. Schedule Updating: Submit at each weekly coordination meeting.

1. Identification of activities that have changed.
2. Changes in early and late start dates.
3. Changes in early and late finish dates.
4. Changes in activity durations in workdays.
5. Changes in the critical path.
6. Changes in total float or slack time.

7. Changes in the Contract Time.

Note: The Contractor may be allowed additional construction days due to inclement conditions ("rain days") only as such are appropriately documented and are in excess of the NOAA/National Weather Service average (previous 5 years) for the given month. A "rain day" is defined as more than a "trace" (0.10") of rain falling within a given 24 hour period. The Contractor shall provide documentation and formally request any "rain days" they feel are legitimately due. Documentation shall be submitted to the Project Manager, in writing, within ten (10) calendar days of the rain event.

2.4 REPORTS

A. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

2.5 SPECIAL REPORTS

A. General: Submit special reports directly to Owner within one day of an occurrence. Distribute copies of report to parties affected by the occurrence.

B. Reporting Unusual Events: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.

PART 3 - EXECUTION - Not Used

END OF SECTION

SECTION 01330 SUBMITTAL PROCEDURES

PART 1-GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contact, including General and Supplementary Conditions and Division 01 Specification Section, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Submittal Procedure
2. Submittal Schedule
3. Shop Drawings
4. Product Data
5. Samples

1.3 SUBMITTAL PROCEDURES

A. Number each submittal with Project Manual specification Section number and sequential number within each section. Number resubmittals with original number and an alphabetic suffix.

B. Identify Project, Contractor, Subcontractor or supplier, pertinent Drawing sheet and detail numbers, and specification Section number, as appropriate.

C. Submit all submittals simultaneously for each Produce or Specification Section. Where multiple Products function as an assembly, group submittals for all related Products into single submittal.

D. Project Manager will not review incomplete submittals.

E. Apply Contractor’s stamp, signed or initialed certifying that:

1. Submittal was reviewed.
2. Products, field dimensions, and adjacent construction have been verified.
3. Information has been coordinated with requirements for Work and Contract Documents.

F. Schedule submittals to expedite the Project, and deliver to Project Manager. Coordinate submittal of related items.

G. For each submittal, allow 10 days for Project Manager’s review, excluding delivery time to and from Contractor. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of completed Work.

H. Revise and resubmit submittals when required; identify all changes made since previous submittals.

I. Distribute copies of reviewed submittals to concerned parties and to Project Record Documents file. Instruct parties to promptly report any inability to comply with provisions.

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1.4 SUBMITTAL SCHEDULE

A. Submit a submittal schedule showing all submittals proposed for project, including:

1. Submittals for Review
2. Closeout Submittals.

B. Include for each submittal:

1. Specification section number.
2. Description of submittal.
3. Type of submittal.
4. Anticipated submittal date.

C. Submit three (3) hard copies and one (1) PDF copy, concurrently.

1.5 SHOP DRAWINGS

A. Present information in clear and thorough manner.

B. Identify details by reference to sheet and detail numbers or areas shown on Drawings.

C. Reproductions of details contained in Contract Documents are not acceptable.

D. Submit four (4) hard copies and one (1) PDF copy (concurrently). One hard copy and a PDF copy will be returned to Contractor for printing and distribution.

1.6 PRODUCT DATA

A. Mark each copy to identify applicable products, models, options, and other data.

B. Supplement manufacturers' standard data to provide information unique to this Project.

C. Submit 3 copies. Project Manager will return one copy to Contractor for printing and distribution.

1.7 SAMPLES

A. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment of devices. Coordinate sample submittals for interfacing work.

B. Where so indicated, submit samples of finishes from the full range of manufacturers' standard colors, textures, and patterns for Project Manager's selection.

C. Include identification for each sample, with full Project information.

D. Project Manager will notify Contractor of approval or rejection of samples, or of selection

of color, texture or pattern if full range is submitted.

END OF SECTION

SECTION 01635 SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for substitutions.

B. Related Sections:

1. Divisions 2 through 16 Sections for specific requirements and limitations for substitutions and pre-bid approvals.

1.3 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Architect/Engineer will consider requests for Substitutions only within 10 days after date established in Notice to Proceed.

1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
   a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
   b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
   c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
   d. 6”x12” Samples of each finish material in proposed pattern and color.
   e. Certificates and qualification data.

f. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
g. Cost information, including a proposal of change, if any, in the Contract Sum (not applicable for pre-bid Submittals).
h. Impact of substitution on construction schedule.
i. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
j. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

2. Project Manager's Action: If necessary, Project Manager will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Project Manager will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
   a. Forms of Acceptance: Change Order, Construction Change Directive, or Project Manager Supplemental Instructions for minor changes in the Work.
   b. Use product specified if Project Manager does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

A. Coordination: Modify or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01700 EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Environmental concerns.
2. Installation of the Work.
3. Cutting and patching.
4. Progress cleaning.
5. Starting and adjusting.
6. Protection of installed construction.
7. Correction of the Work.

B. Related Sections:
1. Division 1 Sections “Summary of the Work”, “Project Record Documents”, or "Closeout Procedures", if included in Project Manual, for submitting closeout documents and final cleaning.

1.3 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 INFORMATIONAL SUBMITTALS

A. Cutting and Patching Plan: Submit plan describing procedures at least 10 days prior to the time cutting and patching will be performed. Include the following information:

1. Extent: Describe reason for and extent of each occurrence of cutting and patching.

2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
3. Products: List products to be used for patching and firms or entities that will perform patching work.
4. Dates: Indicate when cutting and patching will be performed.
5. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate how long services and systems will be disrupted. Prior approval of Utility outages is required. Notify Owner of intent at least 72 hours in advance.

1.5 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.

1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.

2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:

   a. Description of the Work.
   b. List of detrimental conditions, including substrates.
   c. List of unacceptable installation tolerances.
   d. Recommended corrections.

2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
3. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
4. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
5. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Architect according to requirements in Division 1 Section "Project Management and Coordination."

D. Surface and Substrate Preparation: Comply with manufacturer's recommendations for preparation of substrates to receive subsequent work.

3.3 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
4. Maintain minimum headroom clearance of 96 inches, but in no case shall the new piping be lower than the existing piping.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

G. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.

1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous, and meet environmental requirements.

3.4 CUTTING AND PATCHING

A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Temporary Support: Provide temporary support of work to be cut.

C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements of Division 1 Section "Summary."

E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
5. Proceed with patching after construction operations requiring cutting are complete.

G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as

invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.

    a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
    b. Restore damaged pipe covering to its original condition.

3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

    a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.

4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.

H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.5 PROGRESS CLEANING

A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.

    a. Utilize containers intended for holding waste materials of type to be stored.

4. Coordinate progress cleaning for joint-use areas where more than one installer has worked.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

G. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

H. Clean completed construction as frequently as necessary through the remainder of the construction period.

3.6 STARTING AND ADJUSTING

A. Coordinate startup and adjusting of equipment and operating components with requirements in other Division 2 -16 Sections."

B. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.

C. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

D. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

E. Manufacturer's Field Service: Comply with qualification requirements in other Division 2-16 Sections.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.8 CORRECTION OF THE WORK

A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.

1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

B. Restore permanent facilities used during construction to their specified condition.

C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

3.9 ENVIRONMENTAL CONCERNS

1. Provide protection and conduct construction in ways that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

3.10 STORMWATER CONTROL AND DISCHARGE

1. Comply with City of Mobile and Alabama Department of Environmental Management requirements. Pay particular attention to Water Regulations and Allowable Discharges.

2. See City of Mobile Code, Chapter 17, Storm Water Management and Flood Control.

3. Obtain any necessary permits that may be required due to discharges.

END OF SECTION

SECTION 01710 CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:

1. Substantial Completion procedures.
2. Final completion procedures.
3. Warranties.
4. Final cleaning.
5. Repair of the Work.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of cleaning agent.

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

C. Certified List of Incomplete Items: Final submittal at final completion.

1.4 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.

1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
    a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect’s signature for receipt of submittals.
5. Submit testing, adjusting, and balancing records.
6. Submit all reviewed submittals.
7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.

1. Advise Owner of pending insurance changeover requirements.
2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
3. Complete startup and testing of systems and equipment.
4. Perform preventive maintenance on equipment used prior to Substantial Completion.
5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
6. Advise Owner of changeover in utility services.
7. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
8. Complete final cleaning requirements.
9. Touch up paint and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:

1. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
2. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
3. Submit final completion photographic documentation.

B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

1. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
2. Include the following information at the top of each page:
    a. Project name.
    b. Date.
    c. Name of Architect.
    d. Name of Contractor.
    e. Page number.
3. Submit list of incomplete items in the following format:
    a. MS Excel electronic file. Architect will return annotated file.

b. PDF electronic file. Architect will return annotated file.

1.9 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.

B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.

C. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

D. Warranties in Paper Form:

1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

E. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.

1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
   a. Clean Project site, and grounds, in areas disturbed by construction and delivery activities, of rubbish, waste material, litter, and other foreign substances.
   b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
   c. Remove tools, construction equipment, machinery, and surplus material from Project site.
   d. Clean interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
   e. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
   f. Sweep concrete floors broom clean in unoccupied spaces.
   g. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
   h. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
   i. Remove labels that are not permanent.
   j. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
   k. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
   l. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
   m. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
   n. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
   o. Leave Project clean and ready for occupancy.

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair, or remove and replace, defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
   a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION

SECTION 017823 OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:

1. Operation manuals for systems, subsystems, and equipment.
2. Maintenance manuals for the care and maintenance of products, materials, and finishes, systems and equipment.

B. See Divisions 01 through 16 Sections for specific operation and maintenance manual requirements for the Work in those Sections.

1.2 SUBMITTALS

A. Manual: Submit two copies of each manual in final form at least 15 days before final inspection. Architect will return copy with comments within 10 days after final inspection.

1. Correct or modify each manual to comply with Architect's comments. Submit **2** copies of each corrected manual within 10 days of receipt of Architect's comments.
2. Provide PDF copies on 2 discs. Submit with the corrected manual.

PART 2 - PRODUCTS

2.1 MANUALS, GENERAL

A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain a title page, table of contents, and manual contents.

B. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:

1. Subject matter included in manual.
2. Name and address of Project.
3. Name and address of Owner.
4. Date of submittal.
5. Name, address, and telephone number of Contractor.
6. Name and address of Architect and Engineer.
7. Cross-reference to related systems in other operation and maintenance manuals.

C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.

1. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch (215-by-280-mm) paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
   a. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.
4. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
   a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
   b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.2 OPERATION MANUALS

A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and equipment descriptions, operating standards, operating procedures, operating logs, wiring and control diagrams, and license requirements.

B. Descriptions: Include the following:

1. Product name and model number.
2. Manufacturer's name.
3. Equipment identification with serial number of each component.
4. Equipment function.
5. Operating characteristics.
6. Limiting conditions.
7. Performance curves.
8. Engineering data and tests.
9. Complete nomenclature and number of replacement parts.

C. Operating Procedures: Include start-up, break-in, and control procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; and required sequences for electric or electronic systems.

D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.

E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.3 PRODUCT MAINTENANCE MANUAL

A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.

B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

C. Product Information: Include the following, as applicable:

1. Product name and model number.
2. Manufacturer's name.
3. Color, pattern, and texture.
4. Material and chemical composition.
5. Reordering information for specially manufactured products.

D. Maintenance Procedures: Include manufacturer's written recommendations and inspection procedures, types of cleaning agents, methods of cleaning, schedule for cleaning and maintenance, and repair instructions.

E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

2.4 SYSTEMS AND EQUIPMENT MAINTENANCE MANUAL

A. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.

B. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

C. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including maintenance instructions, drawings and diagrams for maintenance, nomenclature of parts and components, and recommended spare parts for each component part or piece of equipment:

D. Maintenance Procedures: Include test and inspection instructions, troubleshooting guide, disassembly instructions, and adjusting instructions, and demonstration and training videotape if available, that detail essential maintenance procedures.

E. Submit demonstration and training video for all lighting control systems.

F. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.

G. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.

H. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.

I. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

PART 3 - EXECUTION

3.1 MANUAL PREPARATION

A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.

B. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.

C. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.

D. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.

1. Do not use original Project Record Documents as part of operation and maintenance manuals.

E. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION

SECTION 017839 PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for Project Record Documents, including the following:

1. Record Drawings.
2. Record Specifications.
3. Record Product Data.

B. See Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.

C. See Divisions 01 through 16 Sections for specific requirements for Project Record Documents of the Work in those Sections.

1.2 SUBMITTALS

A. Record Drawings: Comply with the following:

1. Number of Copies: Submit copies of Record Drawings as follows:
   a. Final Submittal: Submit two sets of marked-up Record Prints, showing all dimensional locations, materials changes, any changes via addendum or change order. Pay particular attention to noting underground utilities.

B. Record Specifications: Submit two copies of Project's Specifications, including addenda and contract modifications.

C. Record Product Data: Submit two copies of each Product Data submittal.

D. Submit PDF’s of Record Drawings, Record Specifications, Record Change Orders, Requests for Proposal, Documentation of use of Allowances, Product and Contractor’s Warrantees, Product Test Reports, Final Surveys, Record Product Data, etc on 2 discs.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

A. Record Prints: Maintain one set of blue- or black-line white prints of the Contract Drawings and Shop Drawings.

1. Preparation: Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
   a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
   b. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
2. Mark the Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. If Shop Drawings are marked, show cross-reference on the Contract Drawings.
3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.

1. Record Prints: Organize Record Prints and newly prepared Record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
2. Record Transparencies: Organize into unbound sets matching Record Prints. Place transparencies in durable tube-type drawing containers with end caps. Mark end cap of each container with identification. If container does not include a complete set, identify Drawings included.
3. Record CAD Drawings: Organize CAD information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each CAD file.
4. Identification: As follows:
   a. Project name.
   b. Date.
   c. Designation "PROJECT RECORD DRAWINGS."
   d. Name of Architect and Engineer.
   e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.

3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders, Record Product Data, and Record Drawings where applicable.

2.3 RECORD PRODUCT DATA

A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, Record Specifications, and Record Drawings where applicable.

2.4 MISCELLANEOUS RECORD SUBMITTALS

A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

B. Completed Test Reports.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and modifications to Project Record Documents as they occur; do not wait until the end of Project.

B. Maintenance of Record Documents and Samples: Store Record Documents and Samples in the field office apart from the Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for Architect's reference during normal working hours.

END OF SECTION

PLACEHOLDER
FOR CARDSTOCK SECTION DIVISION TAB
TO BE LABELED,
“PART B”

SECTION 02361 TERMITE CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Treatment with Termiticide for subterranean termite control.

1.02 SUBMITTALS

A. Product Data: For each type of termite control product.

1. Include the EPA-Registered Label for termiticide products.

B. Qualification Data: For qualified Installer.

C. Product Certificates: For termite control products, from manufacturer.

D. Soil Treatment Application Report: After application of termiticide is completed, submit report for Owner's records and include the following:

1. Date and time of application.
2. Moisture content of soil before application.
3. Termiticide brand name and manufacturer.
4. Quantity of undiluted termiticide used.
5. Dilutions, methods, volumes used, and rates of application.
6. Areas of application.
7. Water source for application.

E. Warranties: Sample of special warranties prior to application for Architect’s approval.

1.03 QUALITY ASSURANCE.

A. Installer Qualifications: Engage a professional pest control operator, licensed by the State of Alabama, and in accordance with regulations of governing authorities for application of soil treatment solution. The pest control operator is to have the aforementioned valid license, the company technician is to have a valid identification card for pest control, and the company vehicle is to be clearly marked with the company name.

B. Regulatory Requirements: Formulate and apply termiticides and termiticide devices according to the EPA-Registered Label.

C. Comply with Alabama Regulations Governing Pest Control Operators in following the labels of the termiticide.

D. Source Limitations: Obtain termite control products from single source from single manufacturer.

1.04 PROJECT CONDITIONS

A. Environmental Limitations: To ensure penetration, do not treat soil that is water saturated or frozen. Do not treat soil while precipitation is occurring. Comply with requirements of the EPA-Registered Label and requirements of authorities having jurisdiction.

B. Coordinate soil treatment application with excavating, filling, grading, and concreting operations. Treat soil under footings, grade beams, and ground-supported slabs before construction.

1.05 WARRANTY

A. Soil Treatment Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor, certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites, including Formosan termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation without cost to the Owner.

1. Warranty Period: Five years from date of Substantial Completion signed by the applicator and the Contractor.

1.06 MAINTENANCE SERVICE

A. Continuing Service: Beginning at Substantial Completion, provide 5 years continuing service including monitoring, inspection, and re-treatment for occurrences of termite activity. Provide a standard continuing service agreement. State services, obligations, conditions, terms for agreement period, and terms for future renewal options.

PART 2 - PRODUCTS

2.01 SOIL TREATMENT

A. Termiticide: Provide an EPA-Registered termiticide, complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Corporation, Agricultural Products; Termidor.
   b. Bayer Environmental Science; Premise 75.
   c. FMC Corporation, Agricultural Products Group; Talstar or Prevail.
   d. Syngenta; Demon TC
2. Service Life of Treatment: Soil treatment termiticide that is effective for not less than five years against infestation of subterranean termites.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for moisture content of soil per termiticide label requirements, interfaces with earthwork, slab and foundation work, landscaping, utility installation, and other conditions affecting performance of termite control.

B. Proceed with application only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's written instructions for preparation before beginning application of termite control treatment. Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree roots, stakes, formwork, and construction waste wood from soil within and around foundations.

B. Soil Treatment Preparation: Remove foreign matter and impermeable soil materials that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.

1. Fit filling hose connected to water source at the site with a backflow preventer, complying with requirements of authorities having jurisdiction.

3.03 APPLICATION, GENERAL

A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's EPA-Registered Label for products.

1. Apply soil treatment solution, USING COLOR DYE marking agent to insure the area is evenly treated.

3.04 APPLYING SOIL TREATMENT

A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.

1. Slabs-on-Grade Slabs: Underground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete slabs are placed.

2. Foundations: Adjacent soil, including soil along the entire inside perimeter of foundation walls; along both sides of interior partition walls; around plumbing pipes and electric conduit penetrating the slab; around interior column footers, piers, and chimney bases; and along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
3. Masonry: Treat voids.
4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.

B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.

C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.

D. Post warning signs in areas of application.

E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

END OF SECTION

SECTION 02400 DEMOLITION AND STRUCTURE MOVING

PART 1 - GENERAL

1.01 SUMMARY

A. Extent of demolition Work is indicated on Drawings. Demolition requires selective removal and subsequent offsite disposal.

B. Types of Demolition Work include, but are not limited to the following items:

1. Complete building structure indicated on Drawings and as required to accommodate new construction.
2. Removal of all exterior building or site items indicated on Drawings.

1.02 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.03 INFORMATIONAL SUBMITTALS

A. Proposed Protection Measures: Submit informational report, including drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and construction of barriers.

1. Adjacent Buildings: Detail special measures proposed to protect adjacent buildings to remain.

B. Schedule of building demolition with starting and ending dates for each activity.

C. Inventory of items to be removed and salvaged.

D. Predemolition photographs or video.

E. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician.

1.04 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

B. Predemolition Conference: Conduct conference at Project site, unless noted otherwise.

1.05 PROJECT CONDITIONS

A. Building to be demolished will be vacated and their use discontinued before start of the Work.

B. Buildings immediately adjacent to demolition area will be occupied and both Ballfields will be used by the public during Fall Season. Conduct building demolition so operations of occupied buildings and the use of the Ballfields will not be disrupted.

1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.
2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.
   a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

C. Owner assumes no responsibility for buildings and structures to be demolished.

1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

1. Hazardous materials will be removed by Owner before start of the Work.
2. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify the Architect. Hazardous materials will be removed by Owner under a separate contract.

E. On-site storage or sale of removed items or materials is not permitted.

F. Arrange demolition schedule so as not to interfere with the Public’s use of both ballfields and support areas during the Spring Season 2023 and the Public’s use of the Seals Community Center parking lot.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting demolition operations.

B. Inventory and record the condition of items to be removed and salvaged.

3.02 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

B. Existing Utilities: Locate, identify, disconnect, and seal or cap off indicated utilities serving buildings and structures to be demolished.

1. Owner will arrange to shut off indicated utilities when requested by Contractor.
2. If removal, relocation, or abandonment of utility services will affect adjacent occupied buildings, then provide temporary utilities that bypass buildings and structures to be demolished and that maintain continuity of service to other buildings and structures.
3. Cut off pipe or conduit a minimum of 24 inches below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing according to requirements of authorities having jurisdiction.
4. Do not start demolition work until utility disconnecting and sealing have been completed.

C. Salvaged Items:

1. Clean salvaged items of dirt and demolition debris.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to storage area indicated on Drawings.
5. Protect items from damage during transport and storage.

3.03 PROTECTION

A. Existing Facilities: Protect adjacent walkways, Ballfield & dugout fencing, and other building facilities during demolition operations. Maintain exits from existing buildings.

B. Existing Utilities: Maintain utility services to remain and protect from damage during demolition operations. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.

C. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated

1. Protect adjacent buildings and facilities from damage due to demolition activities.
2. Protect existing site improvements, appurtenances, and landscaping to remain.
3. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
4. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
5. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
6. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.
7. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent buildings.

D. Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

3.04 DEMOLITION

A. General: Demolish indicated buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations.

1. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
2. Maintain fire watch during and for at least 8 hours after flame cutting operations.
3. Maintain adequate ventilation when using cutting torches.
4. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Explosives: Use of explosives is not permitted.

D. Proceed with demolition of structural framing members systematically, from higher to lower level. Complete building demolition operations above each floor or tier before disturbing supporting members on the next lower level.

E. Remove debris from elevated portions of the building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

F. Below-Grade Areas: Completely fill below-grade areas and voids resulting from building demolition operations with satisfactory soil materials.

G. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

H. Promptly repair damage to adjacent buildings caused by demolition operations.

3.05 CLEANING

A. Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved landfill acceptable to authorities having jurisdiction. Do not burn demolished materials.

B. Clean adjacent structures and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before building demolition operations began.

END OF SECTION

SECTION 02525 CONCRETE CURBS AND WALK

PART 1 – GENERAL

1.01 DESCRIPTION

A. Provide all labor, materials, equipment and services required for complete execution of concrete curbs and walks as shown on Drawings and specified herein.

1.02 QUALITY ASSURANCE

A. Concrete shall conform to requirements as specified in Section.

1.03 SUBMITTALS

A. Refer to Section 01330.

PART 2 – PRODUCTS

2.01 EXPANSION JOINT FILLER

A. Filler material shall be bituminous fiber material conforming to ASTM D1751 and AASHO M-153-52, Type III and approved by the Architect.

2.02 EXPANSION JOINT SEALER

A. Sealer shall be hot-poured elastic type conforming to ASTM D1190 and approved by the Architect.

2.03 CONCRETE AND REINFORCING STEEL

A. Refer to Structural Drawings.

2.04 FORMS

A. Steel or wood of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects, extending the full depth of concrete. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a form release agent which will not discolor of deface the surface of the concrete.

PART 3 – EXECUTION

3.01 PREPARATION

A. Check form elevations prior to placement of concrete to assure proper drainage and assure that grades are as shown on drawings.

3.02 SUBGRADE

A. Subgrade shall be as specified on the Drawings. Proof roll prepared subgrade to check for unstable areas and the need for additional compaction. Do not begin concrete work until such conditions have been corrected and are ready to receive concrete.

3.03 PLACING CONCRETE

A. Remove all loose material immediately before placing concrete.

B. Do not place concrete until subbase and forms have been checked for line and grade.

C. Consolidate concrete along the face of forms and adjacent to joints with an internal vibrator. Consolidate with care to prevent dislocation of reinforcing, dowels and joint devices.

D. Deposit and spread concrete in a continuous operation between joints. If interrupted for more than 1/2 hour, place a construction joint.

E. Concrete walks and curbs shall be as indicated on drawings, of 3000 psi poured concrete as specified.

F. Reinforcement shall be as shown.

G. Expansion joints shall be as shown, or at 60’-0” on center maximum.

H. Contraction Joints: Provide contraction joints, sectioning the walkway into areas as shown on the drawings. If not shown, install joints on center equal to the width of the walk. Form contraction joints in the fresh concrete by grooving the top portion of the slabs with a recommended cutting tool and finishing edges with a jointer.

I. Construction Joints: Place construction joints at the end of pours and at locations where placement operations are stopped for a period of more than 1/2 hour, except where such pours terminate at expansion joints. Construct joints as shown on the drawings.

J. Finish for walks shall be light broom finish. Finish for curbs shall be smooth wood float. Edges shall be tooled with 1/4 inch edging tool. Finishes shall be true to grade and uniform in texture.

3.04 TESTING

A. Test for strength of concrete shall be furnished as specified on Structural Drawings.

END OF SECTION

SECTION 03365 CONCRETE FLOOR SEALER

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Clear floor sealer.

1.02 RELATED DOCUMENTS

A. Refer to Structural Drawings for Cast-In-Place Concrete.

1.03 REFERENCES

A. ASTM D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test.

B. ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test.

1.04 SUBMITTALS

A. Comply with Section 01330 - Submittal Procedures.

B. Product Data: Submit manufacturer's product data, including surface preparation and application instructions.

C. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying manufacturer and product name.

B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Keep containers sealed until ready for use.

C. Handling: Protect materials during handling and application to prevent damage or contamination.

1.06 ENVIRONMENTAL REQUIREMENTS

A. Apply Clear Floor Sealer with Air Temperature: Between 50 degrees F and 100 degrees F. And 5 degrees F above dew point.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Basis-of-Design Product: Kemiko Concrete Products, PO Box 1109, Leonard, Texas 75452. Phone (903) 587-3708. Fax (903) 587-9038. Web Site www.kemiko.com. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:

1. Butterfield Color, Aurora, IL. Tel. (800) 282-3388.
2. H & C Concrete Coatings, Cleveland, OH. Tel. (800) 867-8246.
3. (or) Approved Equal.

B. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures

2.02 CLEAR FLOOR SEALER

A. Sealer: Rembrandt Clear Sealer.

1. Description: Single-component, waterborne, low-viscosity, clear sealer.
2. Gloss: Flat to satin gloss.
3. Dry Film Thickness: 1.0 to 1.5 mils.
4. Volume Solids: 30 percent.
5. VOC: Less than 50 g/L. Meets final SCAQMD Rule 13 (2008).
6. Pencil Hardness, ASTM D 3363: 2H.
7. Dry Tape Adhesion, ASTM D 3359: 5A-5B.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine surfaces to receive clear floor sealer. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

A. Protection: Protect surrounding surfaces not to receive clear floor sealer.

B. Prepare surfaces in accordance with manufacturer's instructions.

3.03 APPLICATION

A. Apply clear floor sealer in uniform film over concrete floor in accordance with manufacturer's instructions.

B. Do not add thinners or dilute clear floor sealer.

C. Keep material containers closed when not in use to avoid contamination.

D. Use application equipment, tools, pressure settings, and techniques in accordance with manufacturer's instructions.

E. Apply clear floor sealer to be free of film characteristics and defects that would adversely affect performance or appearance.

3.04 PROTECTION

A. Protect completed clear floor sealer from damage during construction.

END OF SECTION

SECTION 04200 UNIT MASONRY

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Concrete masonry units, shadow block units, and split face units

B. Related Sections: Section 09900 – Painting and Coating.

1.02 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include instructions for handling, storage, installation, cleaning, and protection of each.

B. Shop Drawings: For reinforcing steel. Detail bending and placement of unit masonry reinforcing bars .Comply with ACI 315, "Details and Detailing of Concrete Reinforcement." Show elevations of reinforced walls.

C. Samples: For each type of exposed masonry unit.

1.03 INFORMATIONAL SUBMITTALS

A. Material Certificates: For each type and size of product indicated. For masonry units include data on material properties and material test reports substantiating compliance with requirements.

B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91 for air content.
2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.

1.04 QUALITY ASSURANCE

A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6 unless modified by requirements in the Contract Documents.

B. Sample Panels: Build sample panels to verify selections made under sample submittals and to demonstrate aesthetic effects.

1. Build sample panels for typical exterior wall in sizes approximately 48 inches long by 40 inches high by full thickness.
2. Obtain Architect's acceptance of visual qualities of the mock-up before start of masonry work.
3. Retain mock-up during construction as a standard for judging completed masonry work.
4. Do not alter, move or destroy mock-up until Work is completed. Provide mock-up panel for each type of exposed unit masonry work.

1.05 PROJECT CONDITIONS

A. Protect partially completed masonry against weather, when Work is not in progress, by covering top of walls with strong, waterproof, non-staining membrane. Extend membrane a minimum of 18 inches down both sides of walls and anchor securely in place to prevent water intrusion.

B. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

C. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.01 CONCRETE UNIT MASONRY, SHADOW BLOCK UNITS AND SPLITFACE UNIT MANUFACTURERS

A. Equivalent products by the following manufacturers are acceptable:

1. Block USA, Inc., Gulf Coast Region Tel. (800) 888-9262.
2. Or Approved Equal

B. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.02 CONCRETE UNITS MASONRY, SHADOW BLOCK UNITS AND SPLITFACE UNIT, GENERAL

A. Obtain masonry units from one manufacturer, of uniform texture and color for each kind required, for each continuous area and visually related areas.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects will be exposed in the completed Work.

C. Fire-Resistance Ratings: Where indicated, provide units that comply with requirements for fire-resistance ratings indicated as determined by testing according to ASTM E 119, by equivalent masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

D. Manufacturer’s standard units with integral water-repellent agent DRY-BLOCK at exterior units. The nominal face dimensions shall be l6 inches long by 8 inches high (l5-5/8 inches by 7-5/8 inches actual), unless otherwise shown. Provide special shapes where shown and where required for lintels, corners, jambs, sash, control joints, headers, bonding and other special conditions. Widths as indicated on Drawings.

E. Hollow Load-Bearing: Provide units complying with ASTM, C 90. Provide normal weight units using ASTM C 33l aggregate for a dry net weight of not less than l25 lbs. per cubic foot.

F. Classification: Curing shall comply with ASTM C 90, Type II, Nonmoisture-Controlled Units.

G. Exposed Face: Provide manufacturer's standard color and texture, unless otherwise indicated.

H. Shapes: Provide shapes indicated and for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.

I. Integral Water Repellent (Exterior Units): Provide units made with liquid polymeric, integral water repellent admixture that does not reduce flexural bond strength for exposed units.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. ACM Chemistries, Inc.; RainBloc.
   b. BASF MastetrPel 240.
   c. Grace Construction Products, W. R. Grace & Co. - Conn.; (Basis-of-Design) Dry-Block.

J. CMUs: ASTM C 90.

1. Density Classification: Normal weight unless otherwise indicated.

2.03 CONCRETE AND MASONRY LINTELS

A. General: Unless indicated otherwise, provide one of the following:

B. Concrete Lintels: ASTM C 1623, matching CMUs in color, texture, and density classification; and with reinforcing bars indicated. Provide lintels with net-area compressive strength not less than CMUs.

C. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam CMUs with reinforcing bars placed as indicated and filled with coarse grout.

2.04 MORTAR AND GROUT MATERIALS

A. Mortar mixes shall comply with the requirements of ASTM C 270 Standard Specification for Mortar for Unit Masonry. Type S mortar shall be used for exterior Work and shall contain integral water repellent agent DRY-BLOCK. Type S mortar shall be used for interior Work. Mortar color shall be Manufacturer's standard color.

B. Approver Products:

1. Manufacturer: Argos and its affiliated companies.
2. Cement: Magnolia® Masonry Cement Type S.

C. Portland Cement: ASTM C 150, Type I, except Type III may be used for cold-weather construction. Provide natural color.

D. Hydrated Lime: ASTM C 207, Type S.

E. Sand: ASTM C l44, except for joints less than l/4 inches, use aggregate graded with 70 to l00 percent passing the No. 16 sieve.

F. Aggregate for Mortar: ASTM C 144.

1. For joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.
2. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.

G. Aggregate for Grout: ASTM C 404.

H. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. BASF: MasterPel 240MA
   b. Euclid Chemical Company (The); Accelguard 80.
   c. Grace Construction Products, W. R. Grace & Co. - Conn.; Morset..

I. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs, containing integral water repellent by same manufacturer.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. ACM Chemistries, Inc.; RainBloc for Mortar.
   b. BASF: MasterPel 240
   c. Grace Construction Products, W. R. Grace & Co. - Conn.;
   d. (Basis-of- Design) Dry-Block Mortar Admixture.

J. Water: Potable.

2.05 REINFORCEMENT

A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.

B. Masonry Joint Reinforcement, General: ASTM A 951/A 951M.

1. Interior Walls: Mill- galvanized, carbon steel.
2. Exterior Walls: Hot-dip galvanized, carbon steel.
3. Wire Size for Side Rods: 0.148-inch diameter.
4. Wire Size for Cross Rods: 0.148-inch diameter.
5. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches o.c.
6. Provide in lengths of not less than 10 feet, with prefabricated corner and tee units.

2.06 TIES AND ANCHORS

A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated.

1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M; with ASTM A 153/A 153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.

C. Partition Top anchors: 0.105-inch- thick metal plate with 3/8-inch- diameter metal rod 6 inches long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel, hot-dip galvanized after fabrication.

D. Rigid Anchors: Fabricate from steel bars 1-1/2 inches wide by 1/4 inch thick by 24 inches long, with ends turned up 2 inches or with cross pins unless otherwise indicated.

1. Corrosion Protection: Hot-dip galvanized to comply with ASTM A 153/A 153M

E. Anchor Bolts: Headed or L-shaped steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers; hot-dip galvanized to comply with ASTM A 153/A 153M, Class C; of dimensions indicated.

2.07 EMBEDDED FLASHING MATERIALS

A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:

1. Metal Drip Edge: Fabricate from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.

B. Single-Wythe CMU Flashing System: System of CMU cell flashing pans and interlocking CMU web covers made from high-density polyethylene incorporating chemical stabilizers that prevent UV degradation. Cell flashing pans have integral weep spouts that are designed to be built into mortar bed joints and weep collected moisture to the exterior of CMU walls and that extend into the cell to prevent clogging with mortar.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Mortar Net USA, Ltd.; Blok-Flash.

C. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

2.08 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from neoprene or urethane.

B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.

C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed

3.02 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation do not vary by more than plus 1/2 inch or minus 1/4 inch.
2. For location of elements in plan do not vary from that indicated by more than plus or minus 1/2 inch.
3. For location of elements in elevation do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls do not vary from level by more than 1/4 inch in 10 feet, or 1/2 inch maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
5. For lines and surfaces do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
2. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
3. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch.

3.03 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch horizontal face dimensions at corners or jambs.

C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

D. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

E. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.

F. Fill cores in hollow CMUs with grout 24 inches under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.04 MORTAR BEDDING AND JOINTING

A. Lay hollow CMUs as follows:

1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
2. With webs fully bedded in mortar in all courses of piers, columns, and pilasters.
3. With webs fully bedded in mortar in grouted masonry, including starting course on footings.
4. With entire units, including areas under cells, fully bedded in mortar at starting course on footings where cells are not grouted.

B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

D. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.05 MASONRY JOINT REINFORCEMENT

A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.

1. Space reinforcement not more than 16 inches on center.
2. Space reinforcement not more than 8 inches on center in foundation walls and parapet walls.
3. Provide reinforcement not more than 8 inches above and below wall openings and extending 12 inches beyond openings in addition to continuous reinforcement.

B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.

C. Provide continuity at wall intersections by using prefabricated T-shaped units.

D. Provide continuity at corners by using prefabricated L-shaped units.

3.06 CONTROL AND EXPANSION JOINTS

A. Provide vertical expansion, control and isolation joints in masonry. Build-in related masonry accessory items as the masonry work progresses. Rake out mortar in preparation for application of caulking and sealants.

B. Control Joint Spacing: If location of control joints is not shown, place vertical joints spaced not to exceed 25'-0" on center. Locate control joints at points of natural weakness in the masonry work.

3.07 FLASHING

A. General: Install embedded flashing in masonry at lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.

B. Install single-wythe CMU flashing system in bed joints of CMU walls where indicated to comply with manufacturer's written instructions. Install CMU cell pans with upturned edges located below face shells and webs of CMUs above and with weep spouts aligned with face of wall. Install CMU web covers so that they cover upturned edges of CMU cell pans at CMU webs and extend from face shell to face shell.

3.08 REINFORCED UNIT MASONRY INSTALLATION

A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.

1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.

B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.

C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.

1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Limit height of vertical grout pours to not more than 60 inches.

D. Testing Prior to Construction: One set of tests.

E. Testing Frequency: One set of tests for each 5000 sq. ft. of wall area or portion thereof.

F. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.

G. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C 780.

3.09 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged or if units do not match adjoining units as intended. Provide new units to match units and install with fresh mortar or grout, pointed to eliminate evidence of replacement

B. Pointing: During the tooling of joints, enlarge any voids or holes, except weep holes, and completely fill with mortar. Point up all joints at corners, openings and adjacent work to provide a neat uniform appearance, properly prepared for application of caulking or sealant compounds.

C. Good workmanship and job housekeeping practices shall be used to minimize the need for cleaning the masonry. Clean exposed masonry by dry brushing at the end of each day's work and after final pointing to remove mortar spots and droppings. Protect the base of the wall from mud splashes and mortar droppings. Should additional cleaning be required apply chemical (muriatic acid is NOT acceptable) or detergent cleaning solutions in accordance with the masonry and chemical manufacturers' recommendations.

D. Remove temporary coverings and protection of adjacent work areas. Remove construction debris from the site and legally dispose of debris.

3.10 MASONRY WASTE DISPOSAL

A. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Do not dispose of masonry waste as fill within 18 inches of finished grade.

B. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION

SECTION 055000 METAL FABRICATIONS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. All miscellaneous metal work. The Work includes, but is not limited to, steel lintels, expanded metal panels, and miscellaneous framing & supports.

B. Related Sections:

1. Section 09900 - Painting and Coatings: Painting for all ferrous metal exposed to view and not covered by masonry or concrete.

1.02 ACTION SUBMITTALS

A. Product Data: For the following:

1. Paint products.
2. Expanded metal panels
3. Grout.

B. Shop Drawings: Show fabrication and installation details for metal fabrications.

1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

PART 2 - PRODUCTS

2.01 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Structural shapes shall be standard sections conforming to the American Society for Testing Materials Specification A-36. Punch and drill as necessary for work of others. Provide bearing plates and anchors, bolts, and etc. The Work shall be true and free of twists, bends and open joints between component parts. Materials shall be thoroughly straightened in the shop before laid off or worked in any way, care being used to avoid injury to the material.

C. Gray cast iron shall conform to ASTM A 48. Castings shall be of uniform quality, free from blowholes, shrinkage defects, swells, cracks or other defects. Castings shall be free of fins, burrs and slag.

D. Expansion bolts shall be equal to Phillips Red Head or "cinch" bolts as manufactured by the National Lead Company. Hilti Fasteners, Rawlplug Company and Wej-it Corporation are acceptable manufacturers. Use toggle type bolts or similar for all anchorage into hollow construction.

E. Bolt or weld connections: Provide necessary lugs and brackets for anchorage. Welding shall be in accordance with current "Code of Fusion, Welding and Gas Cutting in Building Construction, Part A - Structural Steel" issued by the American Welding Society, both for fabrication and erection. All welders shall have certification, as a result of tests prescribed by the American Welding Society.

F. Detail metal Work for ample size, strength and stiffness and as indicated. Countersink and provide reinforcement where necessary; drill or punch holes for bolts and screws. At the proper time furnish the necessary templates, patterns and items of miscellaneous metal, such as sleeves, inserts and similar items to be built into adjoining Work.

G. Fabricate metal Work with sharp lines and angles, with smooth true surfaces and clean edges. Form exposed joints to exclude water. Furnish certificates from manufacturers stating that materials comply with the specification requirements.

H. Provide as necessary holes of proper number and spacing for the attachment of Work of other trades. Do not use cutting torch in field without permission of the Project Engineer.

I. Anchor bolts, washers, nuts and clamps shall be furnished where indicated on the Drawings and where necessary for properly securing Work in place. Bolts and anchors used on the exterior of the building or built into exterior walls shall be cadmium plated. Miscellaneous angles and plates not indicated or specified otherwise shall not be less than 1/4 inch thick.

J. Shop paint and field touch up shall be ICI Devflex 4020, Rustoleum 769, Tnemec 99, Southern Coatings 476, or approved equal. Shop coat shall be compatible with finish coats specified in Section 09900 – Paints and Coatings

2.02 FASTENERS

A. General: Fastenings shall be invisible where possible. Where exposed, screws, bolts, and the like shall be vandal-proof. All welded exposed joints on steel manufactured items; etc. shall be ground smooth and filled to receive paint

B. Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls.

1. Provide stainless-steel fasteners for fastening aluminum.
2. Provide stainless-steel fasteners for fastening stainless steel.
3. Provide stainless-steel fasteners for fastening nickel silver.
4. Provide bronze fasteners for fastening bronze.

C. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F 2329.

2.03 EXPANDED METAL PANELS:

A. Manufacturer: McNichols Co., Inc., Tampa, FL., Tel. (855) 219-6232.(basis-of design)

B. McNichols® Expanded Metal: Panels shall be equal to McNichols® expanded metal flattened, carbon steel, cold rolled, mill finish, 1/2 #13F Flattended, 52 percent open area.

1. Size(s): 48 inches by 96 inches.

2.04 MISCELLANEOUS FRAMING AND SUPPORTS

A. Provide miscellaneous steel framing and supports which are not a part of structural steel framework, as required to complete Work.

B. Fabricate miscellaneous units to sizes, shapes, and profiles indicated, or, if not indicated, of required dimensions to receive adjacent other work to be retained by framing. Except as otherwise indicated, fabricate from structural steel shapes, plates and steel bars of welded construction using mitered joints for field connection. Cut, drill and tap units to receive hardware and similar items.

C. Galvanize miscellaneous frames and supports.

2.05 MISCELLANEOUS MATERIALS

A. Metal Primers: Where materials come in contact with dissimilar materials which may cause harmful reaction, where exposed to moisture, or such as aluminum to cement mortar or concrete, the surface shall be protected by zinc chromate primer, bituminous paint or other approved paint.

B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

C. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

D. Concrete: Comply with requirements in Section 03300 "Cast-in-Place Concrete" for normal-weight, air-entrained, concrete with a minimum 28-day compressive strength of 3000 psi.

2.06 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Use connections that maintain structural value of joined pieces.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.

C. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended.

D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Locate joints where least conspicuous.

E. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

F. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors not less than 24 inches on center.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

3.02 INSTALLING EXPANDED METAL PANELS

A. Anchor expanded metal panels in accordance with manufacturer's recommendations and as detailed on Drawings.

3.03 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

END OF SECTION

SECTION 06100 ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Framing with dimension lumber
2. Wood blocking and nailers.
3. Wood sleepers.
4. Plywood backing panels.
5. Exposed plywood.
6. Plywood roof sheathing

1.02 DEFINITIONS

A. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.

B. Lumber grading agencies, and the abbreviations used to reference them, include the following:

1. SPIB: The Southern Pine Inspection Bureau.
2. WWPA: Western Wood Products Association.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
3. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.04 INFORMATIONAL SUBMITTALS

A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

B. Evaluation Reports: For the following, from ICC-ES:

1. Wood-preservative-treated wood.
2. Shear panels.
3. Power-driven fasteners.
4. Powder-actuated fasteners.
5. Expansion anchors.

1.05 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.01 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
3. Comply with structural notes as indicated on Drawings.

B. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal thickness or less, 19 percent for more than 2-inch nominal thickness unless otherwise indicated.

2.02 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat all rough carpentry unless otherwise indicated.

2.03 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.
2. Nailers.

B. For items of dimension lumber size, provide Construction or No. 2 grade lumber and any of the following species:

1. Mixed southern pine; SPIB.
2. Spruce-pine-fir (south); NeLMA, WCLIB, or WWPA.

C. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:

1. Mixed southern pine; No. 2 grade; SPIB.
2. Western woods; Construction or No. 2 Common grade; WCLIB or WWPA.

D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.04 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: DOC PS 1, Exterior, AC fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.05 EXPOSED PLYWOOD

A. Where plywood will be exposed to view, provide 1/2 inch unless otherwise specified or shown on Drawings. Unless specifically stated otherwise, all exposed plywood shall be painted or stained from standard colors as selected by Architect.

2.06 PLYWOOD ATTIC ACCESS FLOOR

B. Attic equipment access decking: DOC PS 1, Exterior, AC fire-retardant treated, in thickness indicated or, if not indicated, not less than 5/8-inch nominal thickness.

2.07 PLYWOOD ROOF SHEATHING

A. Refer to Structural Drawings.

2.08 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.

B. Power-Driven Fasteners: NES NER-272.

1. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry assemblies and equal to four times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
2. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.

C. Stainless-Steel Sheet: ASTM A 666, Type 304.

1. Use for exterior locations and where indicated.

2.09 MISCELLANEOUS MATERIALS

A. Adhesives for Gluing Sleepers to Concrete: Formulation complying with ASTM D 3498 that is approved for use indicated by adhesive manufacturer.

1. Adhesives shall have a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

B. Install plywood backing panels by fastening to CMU; coordinate locations with utilities requiring backing panels. Install fire-retardant treated plywood backing panels with classification marking of testing agency exposed to view.

C. Do not splice structural members between supports unless otherwise indicated.

D. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Comply with structural notes as indicated on Drawings.

E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

1. Use inorganic boron for items that are continuously protected from liquid water.
2. Use copper naphthenate for items not continuously protected from liquid water.

F. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

3.02 WOOD SLEEPER, BLOCKING, AND NAILER INSTALLATION

A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

C. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

3.03 ROOF SHEATHING

A. Place panels perpendicular to framing members with ends staggered and sheet ends over firm bearing.

B. Install sheathing clips between adjacent sheets between roof framing members.

C. Leave 1/8 inch expansion space at panel ends and edges.

D. Secure to supports as indicated on structural Drawings.

3.04 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes wet or sufficiently wet that moisture content exceeds that specified, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION

SECTION 06415 CONCRETE COUNTERTOPS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: GFRC concrete countertops and trim. .

B. Relater Sections: Plumbing Section 15400 for Restroom lavatories.

1.02 ACTION SUBMITTALS

A. Product Data: For countertop materials, wall brackets and accessories.

B. Shop Drawings: Include plans, sections, details, and attachments to other work.

C. Samples: For each type of material exposed to view. 6 inches square for countertop material with specified finish and color.

1.03 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Sealant Compatibility Test Report: From sealant manufacturer, complying with requirements in Division 7 Section "Joint Sealants" and indicating that sealants will not stain or damage concrete.

1.04 CLOSEOUT SUBMITTALS

A. Maintenance Data: For concrete countertops to include in maintenance manuals. Include Product Data for concrete-care products used or recommended by manufacture, and names, addresses, and telephone numbers of local sources for products.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

1.06 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions of construction to receive concrete countertops by field measurements before fabrication and indicate measurements on Shop Drawings.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Drawings and Specifications are based on products manufactured by Trueform Concrete, www.trueformconcrete.com, Tel. (888) 474-7977.

B. Equivalent products by the following manufacturers are acceptable:

1. Envision Concrete, envisionconcretemcs.com, Tel. (760) 638-3050.
2. Sonoma Cast Stone, sales@sonomastone.com, Tel. (877) 283-2400.
3. Or approved equal

C. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.02 CONCRETE COUNTERTOPS

A. Type: Factory pre-fabricated Trueform Concrete GFRC mixture is a blend of the following: Portland Cement, select fine aggregate (sand) water, acrylic polymer, glass-fiber, de-forming agents, pozzalanic material, super water reducer, pigments and mix additives that increase the workability and overall strength..

B. Size and Configuration: As indicated on Drawings.

C. Thickness: As required to meet loads.

D. Compressive Strength: 8,000 – 10,000 PSI.

E. Tensile Strength (without reinforcement): 1,500 PSI.

F. Standard Concrete Color: Graphite

G. Finish: Classic.

H. Edge: Bull nose counter top edge and flat eased edge on countertop apron.

2.03 ACCESSORIES

A. Wall Brackets: Shall comply with manufacturers written specifications.

B. Joining Materials: Manufacturer’s standard filler.

C. Surface Sealer: Manufacturer’s standard surface sealer.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates indicated to receive concrete countertops and conditions under which concrete countertops will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance

1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of concrete countertops.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Advise installers of other work about specific requirements for placement of inserts and similar items to be used by concrete countertop Installer for anchoring concrete countertops. Furnish installers of other work with Drawings or templates showing locations of these items.

B. Clean dirty or stained concrete surfaces by removing soil, stains, oils, dust, paint, waterproofing and foreign materials before setting.

1. Clean concrete countertops in accordance with fabricator's written instructions.
2. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives. Allow concrete to dry before installing.

3.03 CONSTRUCTION TOLERANCES

A. Variation from Plumb: For vertical lines and surfaces, not to exceed 1/16 inch in 48 inches.

B. Variation from Level: Not to exceed 1/8 inch in 96 inches, 1/4 inch maximum.

C. Variation in Joint Width: Not to vary joint thickness more than 1/4 of nominal joint width.

D. Variation in Plane at Joints (Lipping): Do not exceed 1/64-inch difference between planes of adjacent units.

E. Variation in Line of Edge at Joints (Lipping): Do not exceed 1/64-inch difference between edges of adjacent units, where edge line continues across joint.

3.04 INSTALLATION OF COUNTERTOPS

A. Use diamond saw or diamond grinding if required for field-fitting. Cut lines straight, true, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.

B. Set concrete countertops to comply with requirements indicated on Drawings and Shop Drawings. Shim and adjust concrete countertops to locations indicated, with uniform joints of widths indicated and with edges and faces aligned according to established relationships and indicated tolerances. Install anchors and other attachments indicated or necessary to secure concrete countertops in place.

C. Space joints with 1/16-inch gap for filling with grout. Use temporary shims to ensure uniform spacing.

D. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Use diamond-saw with diamond blades to cut concrete. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.

3.05 CLEANING AND REPLACEMENT

A. In-progress Cleaning: Clean countertops as work progresses. Remove adhesive, grout, mortar, and sealant smears immediately.

B. Clean concrete countertops not less than six days after completion of sealant installation, using clean water and soft rags. Do not use wire brushes, acid-type cleaning agents, cleaning compounds with caustic or harsh fillers, or other materials or methods that could damage concrete.

D. Remove and replace concrete countertops of the following description:

1. Broken, chipped, stained, or otherwise damaged concrete. Concrete may be repaired if methods and results are approved by Architect.
2. Defective countertops.
3. Defective joints, including misaligned joints.
4. Countertops not complying with other requirements indicated.

E. Replace in a manner that result in concrete countertops complying with other requirements, and showing no evidence of replacement.

END OF SECTION

SECTION 07260 VAPOR RETARDERS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Vapor retarder under concrete floor slab.
2. Concrete curing paper on top of freshly poured concrete floor slab.
3. Floor protection paper used for positive protection of finished floors.

1.02 ACTION SUBMITTALS

A. Product Data: Manufacturer's technical product data, installation instructions and recommendations for products specified.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Drawings and specifications are based on products manufactured by Fortifiber Corporation, 300 Industrial Drive, Fernley, NV 89408. Tel. (800) 773-4777.

B. Equivalent products by the following manufacturers are acceptable:

1. Grace Construction Products, Cambridge, Ma. Tel: (800) 444-6459.
2. Griffolyn ® Division, Reef Industries, Inc., Houston, TX. Tel: (800) 231-6074.
3. Stego Industries LLC, San Juan Capistrano, CA. Tel: (877) 464-7834.
4. Or Approved Equal.

C. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures

2.02 VAPOR RETARDER

A. Membrane shall be a 15 mil polyolefin film meeting ASTM E-1745-97 Class A Test Method, equal to Fortifiber Corporation, Moistop® Ultra™ 15, including Moistop® tape and sealants with the following characteristics:

1. Moisture Vapor Permeance: ASTM E-154, Section 7 (E-96, Method A) = .01Perms.
2. Dry Tensile Strength: ASTM D-882 = (80 lb f/in min)-MD & (78 lbf/in min.) CD.
3. Puncture Resistance: ASTM D-1709, Method B = 4,900 Grams.

2.03 CONCRETE CURING PAPER

A. Laminated tri directional glass fiber reinforced long fibered kraft curing papers with double coating of high-melting-point asphalt, meeting ASTM C-171 Test Method, equal to "Orange Label Sisalkraft®".

2.04 FLOOR PROTECTION PAPER

A. Non-staining reinforced floor protection paper consisting of two heavy kraft sheets and glass reinforcing fibers laminated with a non-staining adhesive, meeting ASTM D 828 and ASTM D 781 Test Methods, equal to “Seekure®”.

PART 3 - EXECUTION

3.01 PREPARATION

A. Ensure items that pass through building paper / membrane are properly and rigidly installed, substrate is free of projections and irregularities that may be detrimental to proper installation of building paper / membrane.

3.02 INSTALLATION

A. Vapor Retarder:

1. Unroll underslab vapor retarder over thoroughly compacted subgrade and turn down to cover the bottom of footings and grade beams.
2. Seal joints watertight, with a pressure sensitive tape as recommended by manufacturer, allowing a minimum overlap of 6 inches.
3. Apply tape evenly over seams and rub out wrinkles formed during application.
4. Seal pipes and conduits passing through the membrane with Moistop boot and tape.
5. Inspect membrane thoroughly and repair all punctures immediately before placing concrete. Equipment, tools, and procedures that might puncture the membrane shall not be used while placing and finishing the concrete.
6. Comply with manufacturer’s recommendations and installation procedures as outlined in ASTM E-1643.

B. Curing Paper:

1. Unroll concrete curing paper over the entire surface once the concrete has set sufficiently hard to permit application without marring the surface.
2. Lap joints 4 inches and seal with pressure sensitive tape.
3. Apply tape evenly over seams and rub out wrinkles formed during application.
4. Ensure that all tears or penetrations are repaired.

C. Floor Protection Paper:

1. Apply floor protection paper immediately after floor covering is installed.
2. Do not remove until final completion and acceptance by the Project Engineer.
3. Lay paper in widest practical width with 6-inch laps to provide complete coverage of flooring.
4. Seal joints with minimum 2 inch wide pressure sensitive tape.

3.03 CLEANING

A. Inspect vapor barrier membrane thoroughly and keep clean. Remove dirt, oils, mud, debris, etc. prior to placing concrete.

END OF SECTION

SECTION 07310 SHINGLE ROOFING

PART 1 – GENERAL REQUIREMENTS

1.01 SUMMARY:

A. Section Includes:: All labor, material, equipment and services for installation of shingles on existing facility. Types of shingle applications specified in this section include the following:

1. Asphalt shingle roofing.
2. Ridge Vents
3. Soffit Vents
4. Weatherproof underlayment (ice & water barrier)

B. Related Sections:

1. Section 06100 “Rough Carpentry” for wood sheathing and blocking.
2. Section 07620 “Sheet Metal Flashing and Trim” for edge flashing and other sheet metal work.

1.02 QUALITY ASSURANCE

A. UL Listing: Provide labeled materials that have been tested and listed by UL for Class and Rating indicated for each shingle type required.

B. Pre-Application Roofing Conference: Approximately one week prior to start of roofing installation, a pre-roofing conference is required. This conference shall be conducted by a representative of the Architect and attended by representatives of the Owner, General Contractor, Roofing Contractor, Sheet Metal Contractor, and the Roofing Materials Manufacturer.

C. The pre-roofing conference is intended to clarify application requirements for work to be completed before roofing operations can begin. This would include a detailed review of the specifications, roof plans, roof deck information, flashing details, and approved shop drawings, submittal data, and samples. If conflict exists between the specifications and the Manufacturer’s requirements, this shall be resolved. If this pre-roofing conference cannot be satisfactorily concluded without further inspection and investigation by any of the parties present, it shall be reconvened at the earliest possible time to avoid delay of the work. In no case should the work proceed without inspection of all roof deck areas and substantial agreement on all points.

D. The Architect shall prepare a written report indicating actions taken and decisions made at this pre-roofing conference. This report shall be made a part of the project record and copies furnished the Owner, the General Contractor and roofing contractor.

E. Installer Qualifications: A single Installer (“Roofer”) shall perform both the work of this section and shall be a firm with not less than 5 years of successful experience in the installation of shingle roofing on projects similar in nature and complexity to this project.

The installer shall be currently approved by the manufacturer of the products used on the project and shall be classified as one of the following and be certified by the corresponding Manufacturer:

1. “Master Elite Contractor” as defined and certified by GAF.
2. “Platinum Preferred Contractor” as defined and certified by Owens Corning.
3. “Select Shingle Master” and “Gold Star Contractor” as defined and certified by CertainTeed.

F. The Contractor, superintendent and foreman in charge of the work are to be thoroughly familiar with the requirements of the products, with the specifications, and with the manufacturer’s currently recommended methods of installation.

G. Supervision: Roofing Contractor’s superintendent is to be present throughout entire installation procedure; or, in lieu therefore, have installation supervised by a competent foreman who shall be the same individual that attended the initial job site conference. Foreman must have minimum of 5 years experience in roofing work similar to nature and scope and specified roofing.Contractor’s superintendent and roofing foreman must remain on the job when roofing work is in progress. Should both be absent, no work will be performed.

1.03 REGULATORY REQUIREMENTS

A. Exterior Fire-Test Exposure: Provide asphalt shingles and related roofing materials identical to those of assemblies tested for Class A fire resistance according to ASTM E 108 or UL 790 and listed by Underwriters Laboratories or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing agency. Identify each bundle of asphalt shingles with appropriate markings indicating fire-test-response classification of applicable testing and inspecting agency.

B. Wind-Resistance-Test Characteristics: Provide products identical to those tested according to ASTM D 3161, Class F, ASTM D 7158, Class H, and UL 997 and passed. Identify each bundle of asphalt shingles with appropriate markings of applicable testing and inspecting agency.

C. Install roofing products in accordance with all federal, state, and local building codes.

D. All work shall be performed in a manner consistent with current OSHA guidelines.

1.04 SUBMITTALS

A. Product Data: Submit technical product data, installation instructions and recommendations from shingle manufacturer, including profiles,texturers, colors and certification that materials comply with requirements.

B. Samples: Submit full range of samples for color and texture selection. After selection, submit 2 full-size shingles for verification of each color/style/texture selected.

C. Qualification Data: For qualified Installer.

D. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for asphalt shingles.

E. Research/ Evaluation Reports: For each type of asphalt shingle required, from the ICC.

F. Maintenance Data: For each type of asphalt shingle to include in maintenance manuals.

G. Warranties: Sample of special warranties and Manufacturer's Warranty as specified in this Section.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in manufacturers' unopened bundles or labeled containers with labels intact. Shingle wrappers must be marked with the same run number of the manufacturer.

B. Store materials to avoid water damage, and store rolled goods on end. Comply with manufacturer's recommendations for job-site storage and protection.

1.06 PROJECT CONDITIONS

A. Proceed with work only after substrate construction and penetrating work is complete.

B. Weather Conditions: Proceed with shingle work only when weather conditions comply with manufacturer's recommendations and when substrate is completely dry.

1.07 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels clearly describing contents.

1, Furnish a minimum of 1-SQUARE coverage of asphalt shingles, identical to those to be installed, in unbroken bundles.

1.08 WARRANTY

A. Provide to the Owner a **GAF® Smart Choice® WeatherStopper® Golden Pledge® Ltd Warranty**, including Manufacturing Defect Coverage, Wind Warranty Coverage, and Algae Warranty Coverage, shingle manufacturer's warranty (or an equivalent warranty by another approved manufacturer) on installed work, agreeing to pay for repair (or)

B. Replacement of defective shingles as necessary to eliminate leaks. Period of warranty is **fifty (50) years** from the date of Substantial Completion. The roof shall be guaranteed by the Contractor against leaks due to defects in material or workmanship for a period of five (5) years; this guarantee is in addition to the GAF warranty.

C. Standard Manufacturer's roofing guarantee which contains language regarding the governing of the guarantee by any state other than the State of Alabama, must be amended to exclude such language, and substituting the requirement that the Laws of the State of Alabama shall govern all such guarantees.

PART 2 - PRODUCTS

2.01 ASPHALT FIBERGLASS SHINGLE MATERIALS

A. Asphalt Shingles: A self-sealing, granule-surfaced asphalt shingle with a fiber-reinforced core and protection against discoloration from blue-green algae (StainGuard Plus), and with architectural laminate styling providing a wood shake appearance with a 5-5/8 inch exposure. Color shall be selected from the manufacturer's full range of options. All shingles shall come from a single lot, manufactured in a single manufacturer's facility.

B. Available Products/Color: Subject to compliance with requirements, products that may be incorporated in the work include:

1. Basis Of Design: Timberline® Natural Shadow® HD® Lifetime High Definition Shingles "Weathered Wood Gray" shingles by GAF. Substitutions must be approved by the Owner.
2. Approved Alternative Manufacturers:
   a. CertainTeed Corporation
   b. Owens Corning Corning Roofing and Asphalt, LLC

C. Self-Adhering Waterproof Underlayment: Subject to compliance with requirements, provide underlayment produced by one of the following:

1. CertainTeed Corporation
2. GAF Materials Corporation.
3. Owens Corning Roofing and Asphalt, LLC.
4. W.R. Grace & Co.

D. Weather proof underlayment (ice and water shield) – 60 mil thickness, ASTM D 1970, roll width 36 inches, approximate roll weight 85 lbs/square.

E. Asphalt Plastic Cement: Fibrated asphalt cement complying with ASTM D 2822, designed for trowel application.

F. Hip and ridge Shingles: Distinctive hip and ridge cap shingle complementing the color of the selected roof shingle, with a 5-5/8 inch exposure.

1. Basis of Design: Z® Ridge shingles by GAF. Substitutions must be approved by the Owner

G. Starter Strip: A self-sealing starter shingle designed for premium roof shingles exposure.

1. Basis of Design: WeatherBlocker™ Starter Strip by GAF. Substitutions must be approved by the Owner.

H. Ridge Vent: Rigid plastic ridge ventilator designed to allow the passage of air from attics. Ridge vent shall provide a minimum 18.0 sq inches of NFVA per lineal foot and be 10 inches wide.

1. Cobra Ridge Vent – by GAF
2. VentSure 4-ft Strip Ridge Vent – by Ownens Corning
3. Or approved equal.

I. Nails shall be as manufactured by Simplex Nail and Manufacturing Corp., and as follows:

1. Shingles to deck – 12 gauge, 3/8 inch Head, zinc coated, hot dipped, barbed Shank x 1 inch, six nails per shingle, in accordance with manufacturer's enhanced nailing pattern.

J. Soffit Vent: Soffit vent designed to allow the passage of air from attics. Soffit vent shall provide a minimum 18.0 sq inches of NFVA and be continuous 3" wide, centered in soffit. Subject to compliance with requirements, provide underlayment produced by one of the following:

1. GAF
2. Ownens Corning
3. Or approved equal.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Installer of shingles must examine substrate and conditions under which shingling work is to be performed and must notify Owner in writing of unsatisfactory conditions. Do not proceed with shingling work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

3.02 PREPARATION OF SUBSTRATE

A. Clean substrate of any projections and substances detrimental to shingling work. Remove all shingle nails. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with roofing nails.

B. Coordinate installation of shingles with flashing and other adjoining work to ensure proper sequencing of the work. Do not install shingle roofing until all vent stacks and other penetrations through roofing have been installed and are securely fastened against movement.

3.03 INSTALLATION

A. General: Comply with installation details and recommendations of shingle manufacturer, and NRCA Roofing Manual, except to the extent that more stringent requirements are indicated.

1. Install a single layer (full width – 36 inches) of the weatherproof underlayment across the entire roof and around all roof penetrations, in accordance with the manufacturer's recommendations.
2. Install a starter strip shingle in accordance with the manufacturer's recommendations, at roof edges and at rakes. (Note: do not use an inverted shingle with tabs removed.) Fasten shingles using manufacturer's recommended pattern, weather exposure, and number of fasteners per shingle. Use horizontal and vertical chalk lines to ensure straight coursing. All nailing of shingles is to be done by hand – the use of nail guns will not be permitted.

END OF SECTION

SECTION 07620 SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Flashing and sheet metal work as indicated on the Drawings and provisions of this Specification. The types of work include the following:
   a. Metal (stainless steel) flashing, counter flashing and roof drip edge.

B. Related Sections:

1. Section 06100 – Rough Carpentry; for wood nailers, and blocking.

1.02 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For sheet metal flashing, trim and roof drip edge.

1. Include plans, elevations, sections, and attachment details.
2. Distinguish between shop- and field-assembled work.
3. Identify material, thickness, weight, and finish for each item and location in Project.
4. Include pattern of seams and details of termination points, expansion joints and expansion-joint covers, direction of expansion, roof-penetration flashing, and connections to adjoining work.

1.03 INFORMATIONAL SUBMITTALS

A. Fabricator's Qualification Data: Submit 2 copies of Qualification Statements that demonstrate capabilities and experience for the firms and/or persons hired for fabrication and installation. Include a list with five (5) completed Project names and addresses, and name and addresses of Architects and Owners.

B. Product certificates.

C. Product test reports.

D. Sample warranty.

1.04 CLOSEOUT SUBMITTALS

A. Maintenance Data.

1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

C. SPRI Wind Design Standard: Manufacture and install roof edge flashings tested according to SPRI ES-1 and capable of resisting the following design pressure:

1. Design Pressure: As indicated on Drawings.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.02 FLASHING AND SHEET METAL MATERIALS

A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

B. Stainless Steel Sheet: Provide .032 thick stainless steel, unless indicated otherwise on the Drawings.

2.03 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal unless otherwise indicated.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.

1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
   a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
   b. Blind Fasteners: High-strength stainless-steel rivets suitable for metal being fastened.
2. Fasteners for Stainless-Steel Sheet: Series 300 stainless steel.

C. Solder:

1. For Stainless Steel: ASTM B 32,Grade Sn60 or Grade Sn96, with acid flux of type recommended by stainless-steel sheet manufacturer.

D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.

E. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane, polysulfide and / or silicone polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

F. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

G. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.

2.04 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.

1. Obtain field measurements for accurate fit before shop fabrication.
2. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
3. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.

B. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.

1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
2. Use lapped expansion joints only where indicated on Drawings.

C. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide for proper installation of elastomeric sealant according to cited sheet metal standard.

D. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

E. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard for application, but not less than thickness of metal being secured.

F. Seams: Fabricate nonmoving seams with flat-lock seams. Tin edges to be seamed, form seams, and solder.

G. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use. Rivet joints where necessary for strength.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
3. Space cleats not more than 12 inches apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.
4. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling and tool marks.
5. Torch cutting of sheet metal flashing and trim is not permitted.

B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.

1. Underlayment: Where installing sheet metal flashing and trim directly on wood substrates, install underlayment and cover with slip sheet.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.

1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.

D. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws. Substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

F. Seal joints as required for watertight construction. Prepare joints and apply sealants to comply with requirements in Section 07920 "Joint Sealants."

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets with solder to width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned surface would show in completed Work.

1. Do not use torches for soldering.
2. Heat surfaces to receive solder, and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.

H. Rivets: Rivet joints in uncoated aluminum where necessary for strength.

3.02 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder and sealants.

C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.

D. Protection: Installer shall advise Contractor of required procedures for surveillance and protection of flashings, sheet metal work, and accessories during construction, to ensure that work will be without damage or deterioration, other than natural weathering, at time of substantial completion.

E. Flashings and sheet metal with cuts, abrasions, or imperfections will not be acceptable and is to be replaced.

END OF SECTION

SECTION 07920 JOINT SEALANTS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Furnishing and installation of sealants.

1.02 ACTION SUBMITTALS

A. Product Data: For each joint-sealant product indicated.

B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

D. Joint-Sealant Schedule: Include the following information:

1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

1.03 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.

B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.

C. Field-Adhesion Test Reports: For each sealant application tested.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved by the Manufacturer for installation of units required for this Project.

B. Source Limitations: For each Joint-Sealant Application listed in PART 3 obtain each kind of joint sealant from single source from single manufacturer.

1.05 PROJECT CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (5 deg C).
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Joint Sealants:

1. Products: Subject to compliance with requirements, provide one of the products listed.
2. Manufacturers: Where no product is listed, subject to compliance with requirements, provide products from one of the following manufacturers:
   a. BSAF
   b. Dow
   c. Pecora Corporation.
   d. Sika Corporation, Construction Products Division.
   e. Tremco Incorporated.

C. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.

D. Stain-Test-Response Characteristics: Where sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.

E. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.02 SILICONE JOINT SEALANTS

A. Mildew-Resistant, Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Pecora Corporation; 898.

2.03 URETHANE JOINT SEALANTS

A. Single-Component, Nonsag, Urethane Joint Sealant: ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Trimco Incorporated; Dymonic FC.

B. Single-Component, Nonsag, Traffic-Grade, Urethane Joint Sealant: ASTM C 920. Type S, Grade NS, Class 25, for Use T.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. BASF Building Systems; Sonolastic NP1.

C. Single-Component, Pourable, Traffic-Grade, Urethane Joint Sealant: ASTM C 920, Type S, Grade P, Class 25, for Use T.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Building Systems; Sonolastic SL 1.
   b. Bostik Inc.; Chem-Calk 950.
   c. Pecora Corporation; Urexpan NR-201.

2.04 LATEX JOINT SEALANTS

A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Building Systems; Sonolac.
   b. Bostik Inc.; Chem-Calk 600.
   c. Pecora Corporation; AC-20+.

2.05 JOINT SEALANT BACKING

A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C 1330, of type approved in writing by the joint-sealant manufacturer for the joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.06 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way and formulated to promote optimum adhesion of sealants to joint substrates.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:

1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.

2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
   a. Concrete.
   b. Masonry.
3. Remove laitance and form-release agents from concrete.
4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
   a. Metal.
   b. Glass.
   c. Glazed surfaces of ceramic tile.

B. Joint Priming: Prime all other joint substrates where recommended by joint-sealant manufacturer. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.03 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

1. Do not leave gaps between ends of sealant backings.
2. Do not stretch, twist, puncture, or tear sealant backings.
3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

1. Remove excess sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.

3.04 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:

1. Extent of Testing: Test completed and cured sealant joints as follows:
   a. Perform 10 tests for the first 1000 feet of joint length for each kind of sealant and joint substrate.
   b. Perform 1 test for each 1000 feet of joint length thereafter.
2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
   a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
3. Inspect tested joints and report on the following:
   a. Whether sealants filled joint cavities and are free of voids.
   b. Whether sealant dimensions and configurations comply with specified requirements.
   c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion passes sealant manufacturer's field-adhesion hand-pull test criteria.
4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant fill, sealant configuration, and sealant dimensions.
5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.05 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.06 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.07 JOINT-SEALANT SCHEDULE

A. General: When more than one type of sealant is listed for a Joint-Sealant Application provide one of the sealants listed.

B. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces EHT-1.

1. Joint Locations:
   a. Isolation and contraction joints in cast-in-place concrete slabs.
   b. Other joints as indicated.
2. Urethane Joint Sealant: Single component, pourable, traffic grade.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

C. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces EV-1.

1. Joint Locations:
   a. Construction joints in cast-in-place concrete.
   b. Control and expansion joints in unit masonry.
   c. Joints between different materials listed above.
   d. Perimeter joints between materials listed above and frames of doors, windows, and louvers.
2. Urethane Joint Sealant: Single component, nonsag, Class 100/50.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

D. Joint-Sealant Application: Interior joints in horizontal traffic surfaces IHT-1.

1. Joint Locations:
   a. Isolation joints in cast-in-place concrete slabs.
2. Urethane Joint Sealant: Single component, pourable, traffic grade.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

E. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces IV-1.

1. Joint Locations:
   a. Isolation joints in cast-in-place concrete slabs.
   b. Perimeter joints of exterior openings where indicated.
   c. Vertical joints on exposed surfaces of interior unit masonry, concrete walls and partitions.
   d. Perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances.
2. Joint Sealant: Latex.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

F. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces I-PF-1.

1. Joint Locations:
   a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
2. Joint Sealant: Mildew resistant, single component, nonsag, neutral curing, Silicone.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION

SECTION 08110 NON-SECURITY STEEL DOORS AND FRAMES

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes non-security steel doors and hollow metal frames.

B. Extent of steel doors and frames is indicated and scheduled on Drawings and in the Written Specifications.

C. Related Work in Other Section

1. Door Hardware: Section 08711
2. Paints and Coatings: Section 09900

1.02 QUALITY ASSURANCE

A. Provide doors and frames complying with Steel Door Institute "Recommended Specifications: Standard Steel Doors and Frames" (SDI-100) and as herein specified.

B. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated or required, provide fire-rated door and frame assemblies that comply with NFPA 80 "Standard for Fire Doors and Windows", and have been tested, listed, and labeled in accordance with ASTM E 152 "Standard Methods of Fire Tests of Door Assemblies" by a nationally recognized independent testing and inspection agency acceptable to authorities having jurisdiction.

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's technical product data substantiating that products comply with requirements.

B. Shop Drawings: Submit for fabrication and installation of steel doors and frames. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, location and installation requirements of finish hardware and reinforcements, and details of joints and connections. Show anchorage and accessory items.

1. Provide schedule of doors and frames using same reference numbers for details and openings as those on contract drawings. Indicate coordination of glazing frames and stops with glass and glazing requirements.

1.04 DELIVERY, STORAGE AND HANDLING

A. Deliver hollow metal work cartoned or crated to provide protection during transit and job storage.

B. Inspect hollow metal work upon delivery for damage. Minor damages may be repaired provided that refinished items are equal in all respects to new work and acceptable to Architect; otherwise, remove and replace damaged items as directed.

C. Store doors and frames at building site upright under cover per manufacturer’s instructions. Place units on minimum 4 inches high wood blocking. Avoid use of non-vented plastic or canvas shelters which could create humidity chamber. If cardboard wrapper on door becomes wet, remove carton immediately. Provide 1/4 inch spaces between stacked doors to promote air circulation.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Manufacturer: Provide steel doors and frames by one of the following:

1. Ceco Corp.Dean Steel
2. Curries Republic Door
3. Habersham Metal Products, Inc.
4. Steelcraft/Div. Ingorsoll-Rand
5. Trussbilt, Inc.
6. MPI - Metal Products Inc.

2.02 MATERIALS

A. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel, pickled and oiled, complying with ASTM A 569 and ASTM A 568.

B. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A 366 and ASTM A 568.

C. Galvanized Steel Sheets: Zinc-coated carbon steel sheets of commercial quality, complying with ASTM A 526, with ASTM A 525, G60 zinc coating, mill phosphatized.

D. Supports and Anchors: Fabricate of not less than 18-gage galvanized sheet steel.

E. Inserts, Bolts, and Fasteners: Manufacturer's standard units, except hot-dip galvanize items to be built into exterior walls, complying with ASTM A 153, Class C or D as applicable.

F. Primer: Rust-inhibitive primer suitable as a base for specified finish paints. Provide primer in red color.

1. Primer to be equal to Tnemec Series 10-99.

2.03 FABRICATION, GENERAL

A. Fabricate steel door and frame units to be rigid, neat in appearance and free from defects, warp or buckle. Fit and assemble units in manufacturer's plant. Clearly identify work that cannot be permanently factory-assembled before shipment, to assure proper assembly at project site. Comply with SDI-100 requirements as follows:

1. Interior Doors: SDI-100, Grade II, heavy-duty, Model 2, minimum 16-gage faces (see Door Schedule) with vertical steel stiffeners. Door edges to be continuously welded.
2. Exterior Doors: SDI-100, Grade III, extra heavy-duty, Model 2, minimum 16-gage faces (see Door Schedule) with vertical steel stiffeners. Door edges to be continuously welded.

B. Fabricate frames, concealed stiffeners, reinforcement, edge channels, and moldings from either cold-rolled or hot- rolled steel (at fabricator's option).

C. Fabricate exterior doors, panels, and frames from galvanized sheet steel. Close top and bottom edges of exterior doors as integral part of door construction or by addition of minimum 16-gage inverted steel channels.

D. Exposed Fasteners: When exposed fasteners are unavoidable, provide countersunk flat Phillips heads for exposed screws and bolts.

E. Thermal-Rated (Insulating) Assemblies: At exterior locations, provide doors which have been fabricated as thermal insulating door and frame assemblies and tested in accordance with ASTM C 236.

F. Unless otherwise indicated, provide thermal-rated assemblies with U factor of 0.24 Btu/(hr x ft sq x deg.F) or better.

G. Finish Hardware Preparation: Prepare doors and frames to receive mortised and concealed finish hardware in accordance with final Finish Hardware Schedule and templates provided by hardware supplier. Comply with applicable requirements of ANSI A115 series specifications for door and frame preparation for hardware.

H. Reinforce doors and frames to receive surface-applied hardware. Drilling and tapping for surface-applied finish hardware may be done at project site.

I. Locate finish hardware as indicated on final shop drawings in accordance with "Recommended Locations for Builder's Hardware", published by Door and Hardware Institute.

J. Shop Painting:

1. Clean, treat, and paint exposed surfaces of steel door and frame units, including galvanized surfaces.
2. Clean steel surfaces of mill scale, rust, oil, grease, dirt, and other foreign materials before application of paint.
3. Apply shop coat of prime paint of even consistency to provide a uniformly finished surface ready to receive finish paint.

2.04 STEEL DOORS

A. Provide metal doors of types and styles indicated on drawings and in this section.

2.05 STEEL FRAMES

A. Provide metal frames for doors, borrowed lights, and other openings, as shown on drawings and schedules. Provide concealed fastenings. Fabricate frames of minimum 16-gage cold-rolled furniture steel.

1. Fabricate frames with mitered and welded corners. KD or Knock Down frames are not acceptable.
2. Form exterior frames of hot-dip galvanized steel.

B. Door Silencers: Except on weather-stripped frames, drill stops to receive, and provide, 3 silencers on strike jambs of single-swing frames and 2 silencers per leaf on heads of double-swing frames.

C. Plaster Guards: Provide 26-gage steel plaster guards or mortar boxes, welded to frame, at back of finish hardware cutouts where mortar or other materials might obstruct hardware operation and to close off interior of openings.

PART 3 - EXECUTION

3.01 `INSTALLATION

A. General: Install doors, frames, and accessories in accordance with final shop drawings, manufacturer's data, and as herein specified.

B. Placing Frames: Comply with provisions of SDI-105 "Recommended Erection Instructions for Steel Frames".

1. Place frames prior to construction of enclosing walls and ceilings. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
2. In masonry construction, locate 3 wall anchors per jamb at hinge and strike levels.
3. In masonry construction, grout frame head and jambs full with cement grout as specified in Section 04200.
4. Install fire-rated frames in accordance with NFPA Std. No. 80.
5. In metal stud partitions, install at least 3 wall anchors per jamb at hinge and strike levels. In open steel stud partitions, place studs in wall anchor notches and wire tie. In closed steel stud partitions, attach wall anchors to studs with tapping screws.
6. Caulk base of frames to floor in non-carpeted areas.

C. Door Installation:

1. Fit hollow metal doors accurately in frames, within clearances specified in SDI-100.
2. Place fire-rated doors with clearances as specified in NFPA Standard No. 80.

3.02 ADJUST AND CLEAN

A. Prime Coat Touch-Up: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

B. Final Adjustments: Check and readjust operating finish hardware items, leaving steel doors and frames undamaged and in complete and proper operating condition.

END OF SECTION

SECTION 08333 OVERHEAD COILING COUNTER DOORS

PART 1 - GENERAL

1.01 SUMMARY

Section includes: Extent of overhead coiling counter doors is shown on the Drawings. Provide complete operating door assemblies including door curtains, guides, and counterbalance mechanism, hardware, operators and installation accessories.

Related Section:

1. Section 05500 "Metal Fabrications" for miscellaneous steel supports

1.02 REFERENCES

General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

American Society for Testing and Materials: ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.03 PERFORMANCE REQUIREMENTS

Delegated Design: Design mounting and anchorage of overhead coiling counter doors, including engineering analysis by a qualified professional engineer, performance requirements and design criteria indicated.

Structural Performance, Exterior Doors: Exterior overhead coiling counter doors shall withstand the wind loads, the effects of gravity loads, and loads and stresses within limits and under conditions indicated according to SEI/ASCE 7.

1. Ultimate Design Wind Speed (v_{ult}): 160 mph.
2. Nominal Design Wind Speed (V_{asd}): 124 mph.
3. Exposure Category C.
4. Risk category II.
5. Internal Pressure Coefficient = 1.0

1.04 ACTION SUBMITTALS

Product Data: Submit manufacturer’s product data and installation instructions for overhead coiling counter door and accessory.

Product Color: Submit full range of colors for architect’s selection.

Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.

1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

Samples: For each exposed product and for each color and texture specified.

Delegated-Design Submittal: For overhead coiling counter doors indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

2. Summary of forces and loads on walls and jambs.
3. Anchor design including type and number for reinforced cmu wall.

1.05 CLOSEOUT SUBMITTALS

Maintenance Data.

Warranty Documents.

1.06 QUALITY ASSURANCE

Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity, and trained and authorized by the door dealer to perform the work of this Section.

Regulatory Requirements: Comply with IBC 2012 and AHJ requirements.

1.07 DELIVERY, STORAGE, AND HANDLING

Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.

Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.08 WARRANTY

Manufacturer’s Warranty: Furnish 24-months warranty from date of Substantial Completion for all parts and components.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

Drawings and Specifications are based on products manufactured by Overhead Door Corp., Dallas, TX. Tel. (800) 887-3667.

Equivalent products by the following manufacturers are acceptable:

1. Raynor Garage Doors, Dixon, IL Tel. (800) 472-9667.
2. Windsor Door, Little Rock, AR. Tel. (800) 946-3767.

Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.02 COILING DOOR

Metal door assembly shall be provided as one complete unit including, but not limited to, sections, brackets, tracks, counterbalance mechanisms and hardware. Equal to Model 650 by Overhead Door Co, Galvanized steel primed with baked on polyester top coat in gray.

2.03 DOOR CURTAIN MATERIALS AND CONSTRUCTION

Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated.

Bottom Bar:. Manufacturer's standard continuous channel or tubular shape, fabricated from metal to match curtain slats and finish.

Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain.

2.04 HOOD

General: Form metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting which projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.

2.05 LOCKING DEVICES

Slide Bolt: Interior locking, Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side. Cylinder Lock.

2.06 CURTAIN ACCESSORIES

Weatherseals: Equip each exterior counter door with weather-stripping gaskets fitted to entire perimeter of door for a weathertight installation.

Push/Pull: Equip each push-up-operated or emergency-operated door with lifting handles on each side of door, finished to match door. Provide pull-down straps.

2.07 COUNTERBALANCING MECHANISM

General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self- lubricating graphite bearings for rotating members.

Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled plate.

2.08 MANUAL DOOR OPERATORS

A.Equip door with manufacturer's recommended manual door operator unless another type of door operator is indicated.

B.Push-up Door Operation: Design counterbalance mechanism so required lift or pull for door operation does not exceed 25 lbf (111 N).

2.09 DOOR ASSEMBLY

A.Counter Door: Overhead coiling counter door formed with curtain of interlocking metal 22 gauge, Type F-158 slats. Operation Cycles: Not less than 10,000.

B.. Door Curtain Material: Stainless steel.

D.Door Curtain Slats: Flat profile slats of 1-1/4-inch to 2-inch center-to-center height.

E.Curtain Jamb Guides: Face of Wall/ Galvanized Steel

Hood: Match curtain material and finish – Galvanized steel primed with baked on polyester top coat in gray.

1. Shape: Square.

2.Mounting: Guides, face of wall, As shown on Drawings

PART 3 - EXECUTION

3.01 EXAMINATION

Site Verification of Conditions: Verify through direct observation and field measurement that site conditions are acceptable for installation of doors, operators, controls and accessories. Ensure that openings are square, flush and plumb.

1. Do not proceed with installation of doors, operators, controls and accessories until unacceptable conditions are corrected.

3.02 INSTALLATION

Install overhead coiling counter doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.

Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion. Lubricate bearings and sliding parts as recommended by manufacturer. Adjust seals to provide weathertight fit around entire perimeter.

3.03 CLEANING

Remove temporary coverings and protection of adjacent work areas. Repair or replace installed products damaged prior to or during installation.

Clean installed products in accordance with manufacturer’s instructions prior to Owner’s acceptance. Remove and legally dispose of construction debris from project site.

3.04 DEMONSTRATION

Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling counter doors.

END OF SECTION

SECTION 08711 DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical door hardware for the following:
   a. Swinging doors.
2. Cylinders for door hardware specified in other Sections.

B. Related Sections:

1. Section 08110 "NON-SECURITY STEEL DOORS AND FRAMES" Steel Frames for door silencers provided as part of hollow-metal frames.
   .

1.02 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Other Action Submittals:

1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
   a. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
   b. Format: Use same scheduling sequence and format as in the Contract Documents.
   c. Content: Include the following information:
      1) Identification number, location, hand, fire rating, size, and material of each door and frame.
      2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
      3) Complete designations, including name and manufacturer, type, style, function, size, quantity, and finish of each door hardware product.
      4) Fastenings and other pertinent information.
      5) Explanation of abbreviations, symbols, and codes contained in schedule.

6) Mounting locations for door hardware.
7) List of related door devices specified in other Sections for each door and frame.

2. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.03 INFORMATIONAL SUBMITTALS

A, Qualification Data: For Installer Architectural Hardware Consultant.

B. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.

C. Warranty: Special warranty specified in this Section.

1.04 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

1.05 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Door Hardware:
   a. Mortise lockset; Provide one (1) ML 9070 unit.
   b. Cylinders; Provide one (1) unit.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and an Architectural Hardware Consultant who is available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.

1. Warehousing Facilities: Within 2 hours travel time; approximately 100 miles.
2. Scheduling Responsibility: Preparation of door hardware and keying schedules.

B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as follows.

1. For door hardware, an Architectural Hardware Consultant (AHC).

C. Source Limitations: Obtain each type of door hardware from a single manufacturer.

D. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated. .

E. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.

1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. at the tested pressure differential of 0.3-inch wg of water

F. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.

G. Accessibility Requirements: Comply with applicable provisions in the DOJ's 2010 ADA Standards for Accessible Design and CC A117.1 for door hardware on doors in an accessible route.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
2. Comply with the following maximum opening-force requirements:
   a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
   b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
4. Closers: Adjust door closer sweep periods so that, from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

H. Keying Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." In addition to Owner, Contractor, and Architect, conference participants shall also include Installer's Architectural Hardware Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:

1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Requirements for access control.
5. Address for delivery of keys.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.08 COORDINATION.

A. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

B. Security: Coordinate installation of door hardware and keying with Owner.

1.09 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
   a. Structural failures including excessive deflection, cracking, or breakage.
   b. Faulty operation of doors and door hardware.
   c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use. .
2. Warranty Period: Three years from date of Substantial Completion, unless otherwise indicated.
   a. Locks: Five years from date of Substantial Completion.
   b. Exit Devices: Two years from date of Substantial Completion.
   c. Manual Closers: 10 years from date of Substantial Completion.

1.10 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. .

B. Maintenance Service: Beginning at Substantial Completion, provide twelve months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door and door hardware operation. Provide parts and supplies that are the same as those used in the manufacture and installation of original products.

PART 2 - PRODUCTS

2.01 SCHEDULED DOOR HARDWARE

A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.

1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated.

B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Schedule" Article. Products are identified by descriptive titles corresponding to requirements specified in Part 2.

2.02 CONTINUOUS HINGES

A. Continuous Hinges: BHMA A156.26; minimum 0.120-inch- thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.

2.03 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: As indicated in door hardware schedule.

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:

1. Bored Locks: Minimum 1/2-inch latchbolt throw.
2. Mortise Locks: Minimum 3/4-inch latchbolt throw.
3. Deadbolts: Minimum 1.25-inch bolt throw.

C. Lock Backset: 2-3/4 inches, unless otherwise indicated

D. Lock Trim:

1. Description: Basis-of-Design, Schlage; Lever Design 07, Finish 626.
2. Escutcheon: Basis-of-Design, Schlage; N Escutcheon.
3. Dummy Trim: Match lever lock trim and escutcheons.
4. Operating Device: Lever with escutcheons.

E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect door; finished to match lock or latch.

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
3. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.

F. Mortise Locks: BHMA A156.13; Security Grade 2; stamped steel case with steel or brass parts; Series 1000

2.04 AUXILIARY LOCKS

A. Mortise Auxiliary Locks: BHMA A156.5; Grade 1; with strike that suits frame. See Editing Instruction No. 1 in the Evaluations for cautions about naming manufacturers. Retain one of two subparagraphs and list of manufacturers below. See Section016000 "Product Requirements."

2.05 EXIT DEVICES AND AUXILIARY ITEMS

A. Exit Devices and Auxiliary Items: BHMA A156.3. LOCK CYLINDERS

2.06 LOCK CYLINDERS

A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.

1. Manufacturer: Existing keyway system. Provide cylinder and cores for new locks, including locks provided under other sections of this specification. Provide cylinders and cores with six pin timblers. Provide cylinders from products of one manufacturer, and provide cores from the products of one manufacturer. Provide cores and cylinders by the following:
   a. Schlage interchangeable core, 6 pin SC keyway

B. High-Security Lock Cylinders: BHMA A156.30; Grade 1; Type M, mechanical; permanent cores that are removable; face finished to match lockset.

C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.

D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.07 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference. Retain first subparagraph below if Owner has an existing keying system.

1. Existing System:
   a. Master key or grand master key locks to Owner's existing system.
2. Keyed Alike: Key all cylinders to same change key.

B. Keys: Nickel silver.

1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
   a. Notation: "DO NOT DUPLICATE."
2. Quantity: In addition to one extra key blank for each lock, provide the following:
   a. Cylinder Change Keys: Three.

2.08 KEY CONTROL SYSTEM

A. Key Control Cabinet: not applicable for this project.

2.09 OPERATING TRIM

A. Operating Trim: BHMA A156.6; stainless steel, unless otherwise indicated.

2.10 SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force. See Editing Instruction No. 1 in the Evaluations for cautions about naming manufacturers. Retain one of two subparagraphs and list of manufacturers below. See Section016000 "Product Requirements."

2.11 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16; polished cast brass, bronze, or aluminum base metal.

2.12 OVERHEAD STOPS AND HOLDERS

A. Overhead Stops and Holders: BHMA A156.8

2.13 DOOR GASKETING

A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

2.14 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated

2.15 METAL PROTECTIVE TRIM UNITS

A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch- thick stainless steel; with manufacturer's standard machine or self-tapping screw fasteners.

2.16 AUXILIARY DOOR HARDWARE

A. Auxiliary Hardware: BHMA A156.16.

2.17 FABRICATION .

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.

1. Manufacturer's identification is permitted on rim of lock cylinders only.

B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.

C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow frame construction, provide sleeves for each through bolt.
2. Fire-Rated Applications:
   a. Wood or Machine Screws: For the following:
      1) Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors.
      2) Strike plates to doors.
      3) Closers to doors and frames.
   b. Steel Through Bolts: For the following unless door blocking is provided:
      1) Surface hinges to doors.
      2) Closers to doors and frames.
      3) Surface-mounted exit devices.
3. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."
4. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.18 FINISHES

A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3, 01 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Steel Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.

B. Wood Doors: Comply with DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."

3.03 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Frames: ANSI/SDI A250.8.
2. Hollow Metal Door: HMMA 831-11, "Hardware Locations for Hollow Metal Doors and Frames."

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing. Do not install surface-mounted items until finishes have been completed on substrates involved.

1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

C. Hinges: Install types and in quantities indicated in door hardware schedule.

D. Lock Cylinders: Install construction cores to secure building and areas during construction period..

1. Replace construction cores with permanent cores as directed by Owner.
2. Furnish permanent cores to Owner for installation.

E. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule

F. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

G. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.

H. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

I. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

J. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.04 FIELD QUALITY CONTROL

A. Independent Architectural Hardware Consultant: Engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3, 05 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction. .

B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.06 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.07 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 1 Section "Demonstration and Training."

3.08 DOOR HARDWARE SCHEDULE

Door Hardware Set No. 1A
Location: Exterior Gang Restroom
Insulated Core Metal Door x Hollow Metal Frame:

No.	Item	Description	Finish
3	Hinges	661HD UL 83”	AL
1	Lockset	ASSA ABLOY: DT-7 Digital timer EEB2 Emergency Exit Button M32BD Electromagnetic Lock (Stand alone electronic locking system that allows timed locking and unlocking, door fails secure but can be opened from inside.) XMS Exit Motion Sensor BPS-24-2 Power Supply BF168 Door Pull US 32D 70E 6” x 16” Push Plate US 32D L463T SC Keyway Deadlock 626 20-030 SC Keyway 626	--
1	Closer	QDC213	689
1	Threshold	2005 AT	AL
1	Kickplate	K1050 8” x 2” LDW	US32D
1	Weatherstripping	S88D	

Door Hardware Set No. 1B
Location: Exterior Family Restroom
Insulated Core Metal Door x Hollow Metal Frame:

No.	Item	Description	Finish
3	Hinges	661HD UL 83”	AL
1	Lockset	ASSA ABLOY: DT-7 Digital timer EEB2 Emergency Exit Button M32BD Electromagnetic Lock (Stand alone electronic locking system that allows timed locking and unlocking, door fails secure but can be opened from inside.) XMS Exit Motion Sensor BPS-24-2 Power Supply BF168 Door Pull US 32D 70E 6” x 16” Push Plate US 32D L460T ICX Indicator Deadlock 630 23-030 SC MK 626	--
1	Closer	SC71A DS	689
1	Threshold	2005 AT	AL
1	Kickplate	K1050 8” x 2” LDW	US32D
1	Weatherstripping	S88D	

Door Hardware Set No. 2
Location: Interior Electric Room
Metal Door x Hollow Metal Frame:

No.	Item	Description	Finish
2	Hinges	661HD UL 83”	AL
1 1 1	Exit Device Core Rim Cylinder	25-R-NL x 510L-NL Quantum HH 23-030 C MK 20-057 ICX	626 626 626
1	Closer	SC71A DS	689
1	Threshold	2005 AT	AL
	Weatherstripping	S88D	

Door Hardware Set No. 3
Location: Interior Concession
Metal Door x Hollow Metal Frame:

No.	Item	Description	Finish
3	Hinges	661HD UL 83”	AL
1	Passage Set	ND 10S SPA	626
1	Deadlock	L460T ICX	626
1	Core	23-030 C MK	626
1	Closer	SC71A DS	689
1	Threshold	2005 AT	AL
	Weatherstripping	S88D	

Door Hardware Set No. 4
Location: Interior Plumbing
Metal Door x Hollow Metal Frame:

No.	Item	Description	Finish
3	Hinges	5BB 4-1/2’ x 4-1/2”	US32D
1	Lockset	ND 10S SPA	626
1	Core	23-030 C MK	626
1	Closer	SC71A DS	689
1	Threshold	2005 AT	AL
	Weatherstripping	S88D	

END OF SECTION

SECTION 09670 RESINOUS FLOORING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: A trowel-applied, multi-colored epoxy surfacer designed to be a decorative and protective overlay for concrete floors including seal coats and cove base.

B. Related Documents:

1. Refer to Structural Drawings for concrete substrates to receive resinous flooring.

1.02 ACTION SUBMITTALS

A. Product Data: Submit manufacturer's technical information including basic materials analysis, performance properties, and application instructions for each coating material specified and maintenance instructions.

B. Samples: Furnish samples of each color and material to be applied, with texture to simulate actual conditions, on representative samples of the actual substrate.

1. Resubmit samples as requested until the required sheen, color and texture is achieved.

1.03 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.04 QUALITY ASSURANCE

A. Single Source Responsibility: Provide primers and undercoat material produced by the same manufacturer as the finish coats.

1. Use only thinners recommended by the manufacturer, and only within recommended limits.

B. Manufacturer’s Qualifications: A firm with not less than ten years successful experience in producing chemically resistant coating materials.

C. Applicator Qualifications: Work shall be performed by a firm with not less than 5 years successful experience in special coating applications employing personnel skilled in the application processes and operation indicated.

1. The firm is to be licensed by the State of Alabama as a special coatings contractor.
2. The applicator shall be certified by the manufacturer as qualified to install the manufacturer’s product.

D. Coordination of Work: Review sections in which other coatings are provided to ensure compatibility of the total systems for various substrates.

1. Upon request, furnish information on characteristics of specified finish materials, to ensure that compatible prime coats are used.
2. Notify the Architect of problems anticipated using the coatings systems specified.

E. Mockups (Field Samples): On actual floor surfaces, duplicate coating finishes of prepared samples.

1. Provide full-coat finish samples on at least 20 square feet of surface, until required sheen, color, and texture are obtained; simulate finished lighting conditions for review of in-place Work.
   a. Final acceptance of colors will be from job applied samples.
2. The Architect will select one area or surface to represent surfaces and conditions for each type of coating and substrate to be coated.
   a. Apply coatings in this area or surface in accordance with the schedule, or as specified. After finishes are accepted, this room, area or surface will be used for evaluation of coating systems of a similar nature.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the job site in the manufacturer's original, new, unopened packages and containers bearing manufacturer's name and label and the following information:

1. Name or title of material.
2. Federal Specification number, if applicable.
3. Manufacturer’s name, stock numbers and dates of manufacture.
4. Contents by volume, for major pigment and vehicle constituents.
5. Thinning and application instructions.
6. Color name and number.
7. Handling instructions and precautions.

B. Store materials not in actual use in tightly covered containers maintained between 60 to 85 degrees F.

1. Maintain containers used in storage of coatings in a dry, clean condition, free of foreign materials and residue.
2. Protect from freezing and moisture.
3. Keep storage area neat and orderly.
4. Remove oily rags and waste daily.
5. Take necessary precautionary measures to ensure that workmen and work areas are adequately protected from fire hazards and health hazards resulting from handling, mixing and application of coatings.

1.06 PROJECT CONDITIONS

A. Apply coatings only when the temperature of surfaces to be coated and surrounding air temperatures are above 60 degrees F, unless otherwise permitted by manufacturer's printed instructions.

1. Do not apply coatings in snow, rain, fog or mist, or when the relative humidity exceeds 50 percent, or to damp or wet surfaces unless otherwise permitted by manufacturer's printed instructions.

2. Allow wet surfaces to dry thoroughly and attain the temperature and conditions specified before proceeding with or continuing the coating operation.
3. Prior to application concrete substrate shall have cured 30 days and pass ASTM-D 4263 moisture test.
4. Concrete substrate shall contain no curing compounds or accelerators. Concrete shall have a light broom finish, and be free of grease or laitance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Drawings and Specifications are based on Stonehard Stoneclad GS with Stonkote GS4 topcoat as manufactured by Stonehard, 1000 East Park Ave., Maple Shade, NJ 08052, Tel. (800) 257-7953.

B. Equivalent products by the following manufacturers are acceptable:

1. Rust-Oleum, Vernon Hills, IL. 60061. Tel. (800) 323-3584
2. Sherwin-Williams Company, Cleveland, OH 44115. Tel. (800) 321-8194.

C. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures

2.02 MATERIALS

A. Epoxy Resinous Flooring: Resinous floor three-component, troweled, epoxy mortar surfacing system. System consisting of primer; body coat(s) including resin, hardener, aggregates, curving agents, and colorants, if any; and sealing or finish coat(s). Comply with requirements indicated below:

1. Stonhard Stonclad GS with Stonkote GS4 topcoat system.
2. Rust-Oleum System:
   a. Rust-Oleum CPS 9000 Florclad Epoxy Mortar
   b. Rust-Oleum CPS 8100 S Epoxy Floor Finish
3. S/W System:
   a. S/W General Polymers TPM115
   b. Armorseal Rexthane Top Coat

B. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.

C. Joint Sealant: Basis of design equal to Stonflex MP7. Type recommended or produced by resinous flooring manufacturer for type of service and joint condition indicated.

D. Surface Texture: Texture to be included in surface finish based on Owner requirements.

1. Texture to be on a scale of 2-3 according to Stonhard’s Texture Scale.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
   a. Concrete: 12 percent.
   b. Masonry (Clay and CMU): 12 percent.

B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

C. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.02 PREPARATION

A. General: Prepare and clean substrate according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry, and neutral substrate for resinous flooring application.

B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminates incompatible with resinous flooring.

1. Comply with ASTM C 811 requirements, unless manufacturer's written instructions are more stringent.
2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.

C. Epoxy Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations. Mark locations of floor control joints prior to installation of epoxy resinous floor.

3.03 APPLICATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.

3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.
   a. Apply joint sealant to comply with manufacturer's written recommendations, to maintain a seamless floor.

B. Primer: Apply over prepared substrate at manufacturer's recommended spreading rate.

C. Reinforcing Membrane: Apply to substrate cracks.

D. Integral Cove Base: Cove base shall be installed integral with the floor in 8-inch height/ top of cmu block first course.

E. Body Coat: Apply self-leveling slurry body coat(s) in thickness indicated.

1. Broadcast aggregates and, after resin is cured, remove excess aggregates to provide surface texture indicated.

F. Troweled Coat: Apply troweled or screeded body coat(s) in thickness indicated.

1. Hand or power trowel and grout to fill voids.
2. When cured, sand to remove trowel marks and roughness

G. Finish Coat: Apply sealing or finish coat(s), including grout coat, if any, of type recommended by resinous flooring manufacturer to produce finish indicated.

1. Apply in number of coats and at spreading rates recommended in writing by manufacturer.
2. Surface texture to be on a 2-3 scale based on Stonhard’s texture scale.

3.04 FIELD QUALITY CONTROL

A. The Project Engineer reserves the right to invoke the following test procedure at any time, and as often as he deems necessary, during the period when coating operations are being conducted. The Engineer will engage the services of an independent testing laboratory to sample the coating being used. Samples of material delivered to project site will be taken, identified and sealed, and certified in the presence of the Contractor.

B. The independent testing laboratory will perform appropriate tests for the following characteristics as required by the Owner:

1. Quantitative materials analysis.
2. Absorption.
3. Accelerated weathering and Color retention.
4. Alkali and mildew resistance.
5. Abrasion resistance.
6. Apparent reflectivity.
7. Washability.
8. Re-coating.
9. Skinning.

C. If the results show materials being used do not comply with requirements, the Contractor may be directed to stop Work. One or more of the following shall then be done:

1. Remove non-complying materials.

2. Pay for testing.

3. Re-coat surfaces coated with rejected materials.
4. Remove rejected materials from previously coated surfaces if, upon re-coating with specified materials, the two coatings are not compatible.

3.05 CLEANING

A. At the end of each workday, remove rubbish, empty cans, rags and other discarded materials from the site.

B. At completion of work, clean walls and spattered surfaces.

1. Remove spattered coatings by washing, scraping or other proper methods, using care not to scratch or damage adjacent finished surfaces.
2. Use cleaning materials and procedures recommended in writing by resinous flooring manufacturer.

3.06 PROTECTION

A. Protect work of other trades, whether to be coated or not, against damage from coating.

1. Provide protection of existing buildings and equipment, landscaping, site improvements, vehicles, and other personal property in the area of construction.
2. Correct damage by cleaning, repairing, replacing, and re-coating as acceptable to the Project Architect. Leave in an undamaged condition.

B. Provide "Wet Paint" signs to protect newly coated finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of coating operations.

C. At completion of construction activities of other trades, touch-up and restore damaged or defaced coated surfaces.

END OF SECTION

SECTION 09900 PAINTS AND COATINGS

PART 1 - GENERAL

1.01 SUMMARY

A. Painting and finishing of exterior and interior exposed items and surfaces throughout the project, except as otherwise indicated. Surface preparation, priming and finish coats specified in this Section are in addition to shop priming and surface treatment specified under other Sections of the Work.

1. The Work includes field painting of exposed bare and covered pipes and ducts (including color coding), and of hangers, exposed steel and iron work, and primed metal surfaces of equipment installed under the mechanical and electrical Work, except as otherwise indicated.
2. “Paint” means all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate or finish coats.
3. Paint all exposed surfaces whether or not colors are designated in "schedules", except where the natural finish of the material is specifically noted as a surface not to be painted. Where items or surfaces are not specifically mentioned, paint these the same as adjacent similar materials or areas. If color or finish is not designated, the Architect will select these from standard colors available for the materials system specified.

1.02 PAINTING NOT INCLUDED

A. The following categories of Work are not included as parts of the field-applied finish Work, or are included in other Sections of these Specifications.

B. Shop Priming: Unless otherwise specified, shop priming of ferrous metal items is included under the various Sections for structural steel, miscellaneous metal, hollow metal work, and similar items. Also, for fabricated or factory-built mechanical and electrical equipment or accessories.

C. Pre-Finished Items: Unless otherwise indicated, do not include painting when factory-finishing or installer finishing is specified for such items as (but not limited to) plastic toilet enclosures, prefinished partition systems, acoustic materials, architectural woodwork and casework, finished mechanical and electrical equipment including light fixture, switch-gear and distribution cabinets, elevator entrance frames, door and equipment.

D. Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceilings in concealed areas and generally inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, duct shafts and elevator shafts.

E. Finished Metal surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require finish painting, unless otherwise indicated.

F. Operating Parts and Labels: Moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sinkages, sensing devices, motor and fan shafts will not require finish painting, unless otherwise indicated. Do not paint over any code-required labels, such as Underwriter's Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's technical information including basic materials analysis and application instructions for each coating material specified.

B. Samples for Initial Selection: For each type of topcoat product indicated. Submit color samples for selection by Architect from manufacturer's full range of colors. Indicate submitted manufacturer's closest STANDARD colors that match colors specified or provide "Custom" color if not match.

C. Samples for Verification: For each type of paint system and each color and gloss/sheen of topcoat indicated.

1. Submit Samples on rigid backing, 8 inches square.
2. Step coats on Samples to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

D. Product List: For each product indicated, include the following:

1. Comply with Articles 3.7 and 3.8 indicating each type of primer, intermediate coat and topcoat required for each substrate by product name and number.
2. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.

E. Coating Maintenance Manual: Upon conclusion of the project, the Contractor or paint manufacturer / supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Project Color and Product Information" report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product / color / finish was used, product data pages, Material Safety Data sheets (MSDS), care and cleaning instructions, including touch-up procedures.

F. Substitutions for Convenience: Architect will consider formal written requests from Contractor for substitution of products in place of those specified if received within 10 days prior to Bids. Requests received after that time may be considered or rejected at discretion of Architect. Substitutions which decrease the film thickness, the number of coats applied, change the generic type of coating or fail to meet the performance criteria of the specified materials WILL NOT be approved. All primers and topcoats plus the seam sealer and pit filler shall be furnished by the same manufacturer to ensure compatibility.

1.04 QUALITY ASSURANCE

A. Mockups: Apply benchmark samples of each paint system indicated and each color and finish selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified.
   a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft..
   b. Other Items: Architect will designate items or areas required.
2. Final approval of color selections will be based on benchmark samples.
   a. If preliminary color selections are not approved, apply additional benchmark samples of additional colors selected by Architect at no added cost to Owner.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver all materials to the job site in original, new and unopened packages and containers bearing manufacturer's name and label, and the following information:

1. Name or title of material.
2. Fed. Spec. Number, if applicable.
3. Manufacturer's stock number and date of manufacturer.
4. Manufacturer's name.
5. Contents by volume, for major pigment and vehicle constituents.
6. Thinning instructions.
7. Application instructions.
8. Color name and number.

B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.06 PROJECT CONDITIONS

A. Apply paints only when temperature of product, surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paint late in the day when dew and condensation are likely to form; or snow, rain, fog or mist is expected; or when the relative humidity exceeds 85 percent; or to damp or wet surfaces; unless otherwise permitted by the paint manufacturer's printed instruction. Painting may be continued during inclement weather only if the areas and surfaces to be painted are enclosed and heated within the temperature limits specified by the paint manufacturer during application and drying periods.

1.07 EXTRA MATERIALS

A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.

1. Quantity: Furnish an additional 5 percent, but not less than 1 gallon of each material and color applied.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. BLP Mobile Paint, Theodore, AL Tel. (251) 443-6110.
2. Benjamin Moore & Company, Montvale, NJ. Tel. (800) 344-0400.
3. Farrell-Calhoun Paint, Memphis, TN. Tel. (901) 526-2211.
4. PPG Paints, Inc., Pittsburgh, PA. Tel (412) 434-3131.
5. Rust-Oleum, Vernon Hills, IL. 60061. Tel. (800) 323-3584.
6. Sherwin-Williams Company, Cleveland, OH 44115. Tel. (800) 321-8194. (Basis-of-Design)

B. Substitution Requests: Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures

2.02 COLORS AND FINISHES

A. Paint colors, surface treatments, and finishes will be selected from color chips submitted by contractor. Prior to beginning Work, the Architect will select color chips for surfaces to be painted. Use representative colors when preparing samples for review. Final acceptance of colors will be from samples.

B. Colors Pigments: Pure, non-fading, applicable types to suit the substrates and service indicated. Lead content in the pigment, if any, is limited to contain not more than 0.5 percent lead, as lead metal based on the total non-volatile (dry-film) of the paint by weight.

C. Paint Coordination: Provide finish coats which are compatible with prime paints used. Review other sections of these Specifications in which prime paints are to be provided to ensure compatibility of total coats system for various substrates. Upon request from other trades, furnish information on characteristics of finish materials provided for use, to ensure compatible prime coats are used. Provide barrier coats over incompatible primer or remove and reprime as required. Notify the Architect in writing of any anticipated problems using specified coating systems with substrates primed by others.

2.03 MATERIAL QUALITY

A. Provide the best quality grade of the various types of coatings as regularly manufactured by acceptable paint materials manufacturers. Materials not displaying the manufacturer's identification as a standard, BEST GRADE product WILL NOT be acceptable. Proprietary names used to designate colors or materials are not intended to imply that products of the named manufacturers are required to the exclusion of equivalent products of other manufacturers.

B. Provide undercoat paint produced by the same manufacturer as the finish coats. Use only thinners approved by the paint manufacturer, and use only within recommended limits.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Applicator must examine the areas and conditions under which painting Work is to be applied and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to the Applicator. Starting of painting Work will be construed as the Applicator's acceptance of the surfaces and conditions within any particular area.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Concrete: 12 percent.
2. Masonry (Clay and CMU): 12 percent.
3. Wood Interior & Exterior located: 10 percent per ASTM D2016.

C. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to the formation of a durable paint film.

3.02 SURFACE PREPARATION

A. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instructions and as herein specified, for each particular substrate condition.

1. Remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations.
2. Remove, if necessary, for the complete painting of the items and adjacent surfaces.
3. Following completion of painting of each space or area, re-install the removed items by workmen skilled in the trades involved.
4. Clean surfaces to be painted before applying paint or surface treatments.
5. Remove oil and grease prior to mechanical cleaning.

6. Remove mildew by washing with a mixture of 1 part liquid chlorine bleach to 3 parts water. Before use, be sure to read and follow instructions and warnings on label. Rinse thoroughly.
7. Schedule the cleaning and painting so that contaminates from the cleaning process with not fall onto wet, newly painted surfaces.
8. Warning-If you scrape, sand, or remove old paint; you may release lead dust or fumes. Lead is toxic and can cause serious illness. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure.

B. Ferrous Metals:

1. Clean ferrous surfaces, which are not galvanized or shop-coated, of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning.
2. Touch-up shop-applied prime coats wherever damaged or bare. Where required by other Sections of these Specifications, clean and touch-up with the same type shop primer.

C. Galvanized Surfaces: Clean free of oil and surface contaminants with acceptable non-petroleum based solvent.

D. Wood: Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, and dust off. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended knot sealer before application of the priming coat.

1. Prime, stain, or seal wood required being job-painted, as soon as practicable upon delivery to job. Prime edges, ends, faces, under sides, and backsides of such wood, including cabinets, counters, cases, paneling, etc. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood-filler. Sandpaper smooth when dry.
2. When transparent finish is required, use sealer as recommended by manufacturer. Seal tops, bottoms, and cutouts of unprimed wood doors with sealer immediately upon delivery to project.

3.03 MATERIALS PREPARATION

A. Mix and prepare painting materials in accordance with manufacturer's directions. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue. Stir materials before application to produce a mixture of uniform density, and stir as required during the application of the materials. Do not stir surface film into the material. Remove the film and if necessary, strain the material before using.

3.04 APPLICATION

A. Apply paint in accordance with the manufacturer's directions. Use applications and techniques best suited for the substrate and type of material being applied. Apply additional coats when undercoats, stains or other conditions show through the final coat of paint, until the paint film is of uniform finish, color and appearance. Give special attention to insure that all surfaces, including edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

B. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only before final installation of equipment. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black paint. Paint the back-sides of access panels, and removable or hinged covers to match the exposed surfaces.

C. Finish exterior doors on tops, bottoms and side edges the same as the exterior faces, unless otherwise indicated.

D. Sand lightly between each succeeding enamel or varnish coat.

E. Omit the first coat (primer) on metal surfaces that have been shop-primed and touch-up painted, unless otherwise indicated or barrier coat is required for compatibility.

F. Scheduling Paint: Apply the first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. Allow sufficient time between successive coatings to permit proper drying. Do not re-coat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure and the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

G. Minimum Coating Thickness: Apply each material at not less than the manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated or, if not indicated, as recommended by coating manufacturer.

H. Prime Coats: Apply a prime coat of material which is required to be painted or finished, and which has not been prime coated by others. Re-coat primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn-through or other defects due to insufficient sealing.

I. Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, or other surface imperfections will not be acceptable.

J. Transparent (Clear) Finishes: Use multiple coats to produce glass-smooth surface film of even luster. Provide a finish free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections. Provide satin finish for final coats, unless otherwise indicated.

K. Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint Work not in compliance with specified requirements.

3.05 FIELD QUALITY CONTROL

A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure at any time and as often as Owner deems necessary during the period when paints are being applied:

1. Owner will engage the services of a qualified testing agency to sample paint materials being used. Samples of material delivered to Project site will be taken, identified, sealed, and certified in presence of Contractor.
2. Testing agency will perform tests for compliance of paint materials with product requirements.
3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements.
4. Contractor shall remove non-complying-paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials.
5. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

3.06 CLEANING AND PROTECTION

A. Cleaning: During the progress of the Work, remove from the site all discarded paint materials, rubbish, cans and rags at the end of each workday. Upon completion of painting work, clean window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.

B. Protection: Protect Work of other trades, whether to be painted or not, against damage by painting and finishing Work. Correct damage by others for protection of their Work, after completion of painting operations. At the completion of Work of other trades, touch-up and restore all damaged or defaced painted surfaces.

3.07 EXTERIOR PAINTING SCHEDULE

A. Provide the following Sherwin-Williams (or equal) paint systems for the various substrates, as indicated:

1. Ferrous and Zinc Coated Metal
   a. Prime Coat: S-W ProCryl® Universal Primer, B66-310 Series (2.0-4.0 mils dry)
   b. Intermediate Coat: Sher-Cryl™ HPA Acrylic, B66-350 Series (2.5-4.0 mils dry)
   c. Topcoat: Sher-Cryl™ HPA Acrylic, B66-350 Series (2.5-4.0 mils dry)
2. Steel Shop Primed: (structural steel framing exposed to view including steel lintels and steel stairs and handrails)
   a. Prime Coat: S-W ProCryl® Universal Primer, B66-310 Series (2.0-4.0 mils dry)
   b. Intermediate Coat: S-W Pro Industrial Waterbased Alkyd Urethane, B53-1150 series (1.7 mils dry)
   c. Topcoat: S-W Pro Industrial Waterbased Alkyd Urethane, B53-1150 series (1.7 mils dry)

3. Painted Woodwork
   a. Prime Coat: S-W Exterior Latex primer, B42W841 (1.4 mils dry). If tannin bleeding occurs, use A-100 Exterior Stain Blocking Primer, Y24 Series.
   b. Intermediate Coat: S-W A-100 Exterior Latex Gloss, A8 Series (1.3 mils dry)
   c. Topcoat: S-W A-100 Exterior Latex Gloss, A8 Series (1.3 mils dry)
4. Exterior Split Face & Smooth Face Block (Water Repellent-Tinted)
   a. Prime Coat: H&C Colortop Solid Color Solvent Based
   b. Intermediate Coat: H&C Colortop Solid Color Solvent Based
   c. Topcoat H&C Colortop Solid Color Solvent Based (if required for uniform color)

   (Comply with manufacturer's instructions for coverage and uniform color.)
5. Pavement Markings
   a. Topcoat: S-W Promar Chlorinated Rubber Traffic Marking Paint

3.08 INTERIOR PAINTING SCHEDULE

A. Provide the following Sherwin-Williams (or equal) paint systems for the various substrates, as indicated:

1. Concrete Masonry Units (Epoxy)
   a. Prime Coat: S-W PrepRite Block Filler, B25W25 (8.0 mils dry)
   b. Intermediate Coat: S-W Pro Industrial Water Based Catalyzed Epoxy, B73-360 Series (2.0-5.0 mils dry)
   c. Topcoat: S-W Pro Industrial Water Based Catalyzed Epoxy, B73-360 Series (2.0-5.0 mils dry)
2. Ferrous and Zinc Coated Metal
   a. Prime Coat: S-W ProCryl® Universal Primer, B66-310 Series (2.0-4.0 mils dry)
   b. Intermediate Coat: S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series (2.0-3.0 mils dry)
   c. Topcoat: S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series (2.0-3.0 mils dry)
3. Painted Woodwork
   a. Prime Coat: S-W ProMar 200 Zero VOC Interior Latex Primer, B28-2600 (1.0 mils dry)
   b. Intermediate Coat: S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series (2.4-3.0 mils dry)
   c. Topcoat: S-W ProClassic Waterborne Acrylic Semi-Gloss, B31 Series (2.4-3.0 mils dry)

END OF SECTION

SECTION 10172 TOILET COMPARTMENTS & UNDERLAVATORY SHIELDS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Phenolic Partitions & Underlavatory Panel Shields.

1.2 RELATED SECTIONS

A. Section 05500 - Metal Fabrications: Concealed steel support members.

B. Section 06110 - Wood Framing: Concealed wood framing and blocking for compartment support.

C. Section 10800 - Toilet and Bath Accessories.

1.3 REFERENCES

A. ASTM International:
1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM D 1735 - Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus
3. ASTM D 2247 - Standard Practice for Testing Water Resistance of Coatings in 100 percent Relative Humidity

B. United States Green Building Council (USGBC): LEED Green Building Rating System.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. [Product Data]: Manufacturer's data sheets on each product to be used, including:
1. Literature indicating typical panel, pilaster, door, hardware and fastening.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.

C. Shop Drawings:
1. Dimensioned plans indicating layout of toilet compartments.
2. Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances.
3. Details indicating anchoring components (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.

D. Selection Samples: For each finish product specified, one complete set of color selection guides representing manufacturer's full range of available colors, textures and patterns.

E. Verification Samples: For each finish product specified, two samples representing actual product, color, texture and pattern.

F. LEED Green Building Rating System: Submit manufacturer's documentation of recycled content, in accordance with LEED credit calculations.

G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.

B. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

C. Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

D. Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).

1.6 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

B. Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).

1.7 WARRANTY

A. Manufacturers Standard Warranty: Provide warranty for Phenolic Material against delamination, breakage, or corrosion for 25 years, assuming proper maintenance according to manufacturer's recommendations.

1.8 COORDINATION

A. Coordinate Work with placement of support framing and anchors in walls and ceilings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: ASI Global Partitions, which is located at: 900 Clary Connector; Eastanollee, GA 30538; Tel: 706-827-2700; Fax: 706-827-2710; Email:request info (sales@asi-globalpartitions.com); Web:http://asi-globalpartitions.com
   1. Other Acceptable Manufacturer: ASI Accurate Partitions; Burr Ridge IL; Tel: 708-442-6800; Web: http://www.asi-accuratepartitions.com.
   2. No other manufacturer will be accepted without ASTM performance compliance.

B. Equivalent products by the following manufacturers are acceptable:

Bradley Corp / Mills Partitions, Menomonee Falls, WI. Tel (414) 354-0100.

General Partitions Mfg. Corp., Erie, PA. (814) 833-1154.

Knickerbocker Partition Corp, Freeport, NY. Tel. (516) 546-0550.

2.2 COMPARTMENTS AND SCREENS

A. Toilet Compartments: Floor anchored.
1. Compartment Depth and Width: As scheduled and indicated on Drawings.
2. Door Width: 24 inches(610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum.
3. Height Above Floor: 12 inches (305 mm).
4. Door/Panel Height: 58 inches (1473 mm).
5. Pilaster Height: 70 inches (1778 mm).

B. Privacy and Urinal Screens: Wall hung.
1. Screen Panel Size: 18 inches (457 mm) wide by 42 inches (1067 mm) high.
2. Height Above Floor: 12 inches (305 mm) for 48 inches (1219 mm) high.

2.3 SOLID PHENOLIC / COLOR-THRU TOILET COMPARTMENTS

A. Doors, Panels, Screens, and Pilasters: Decorative surface sheet with solid phenolic core of melamine resin impregnated kraft paper fused under high temperature and pressure; edges machine sanded with a 45 degree radius edge. Manufacturer's standard.
1. Doors and Pilasters: 3/4 inch (19 mm) thick.
2. Panels and Screens: 1/2 inch (13 mm) thick.
3. Edges: Color-thru.
4. Fire Rated Material: Class B, ASTM E 84.

B. No-Sight System: Required, including piano hinges.
1. Continuous stainless steel cam-action hinge and continuous aluminum strike side filler.

C. Finish: Solid phenolic/color-thru, as selected from manufacturer's standard colors.

D. Door Hardware: Spring piano hinge.
1. Hinges: Continuous spring piano hinge.
2. Latch: Slide type. Non-ferrous, brushed chrome-plated, indicator type to allow emergency access from outside of the compartment.
3. Strike and Keeper: Brushed chrome-plated finish.
4. Coat Hook and Bumper: Non-ferrous, chrome plated, with black rubber tip for doorstop.
5. Door Pull: For all doors. Two per ADA doors.
6. Fastening Hardware: Manufacturer's standard Type 304 stainless steel, No. 4 satin finish, with theft-resistant barrel nuts and machine screws.

E. Mounting Brackets: Provide optional stainless steel continuous bracket Type 304 stainless steel, No. 4 satin finish, with stainless steel theft-resistant fasteners.

F. Pilaster Shoes: Type 304 Stainless Steel, No. 4 satin finish. Minimum 5 inches (127 mm) high.

G. Pilaster Anchors, Floor Anchored: 1/4 by 1 inch (6 by 25 mm) steel mounting bar secured to pilaster with 3/8 inch (9.5 mm) steel fasteners. Pilasters to be secured to floor with 3/8 inch (9.5 mm) wedge anchors and nuts. Leveling adjustment to be concealed by pilaster shoe after installation.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.

B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   1. Verify dimensions of areas to receive compartments.
   2. Verify locations of built-in framing, anchorage, bracing, and plumbing fixtures.

3.2 INSTALLATION

A. Install in accordance with approved shop drawings and manufacturer's instructions.

B. Fasten components to adjacent materials and to other components using purpose-designed fastening devices.

C. Adjust pilaster anchors for substrate variations; conceal anchors with pilaster shoes.

D. Equip each compartment door with hinges and door latch.

E. Install door strike keeper on pilasters in alignment with door latch.

F. Equip each compartment door with one coat hook and bumper.

G. Installation Tolerances:
   1. Maximum variations from plumb or level: 1/8 inch (3 mm).
   2. Clearance between wall surface and panels or pilasters: 1-1/2 inch (38 mm) maximum.

3.3 ADJUSTING

A. Adjust and align hardware to uniform clearance at vertical edge of doors.

B. Adjust adjacent components for consistency of line or plane.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

C. Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before substantial completion.

END OF SECTION

SECTION 10280 TOILET ACCESSORIES

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Public-use washroom accessories including electric hand dryers.
2. Baby Changing Station.

1.02 COORDINATION

A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

C. Coordinate blocking and anchoring devices for owner furnished accessories.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
3. Include electrical characteristics.

B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

1. Identify locations using room designations indicated.
2. Identify accessories using designations indicated.

1.04 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For manufacturer's special warranty.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For accessories to include in maintenance manual.

1.06 WARRANTY

A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, visible silver spoilage defects.
2. Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 OWNER-FURNISHED MATERIALS

A. Owner-Furnished Materials: Toilet Tissue Dispenser, As indicated on the Drawings.

1. At return of Contractor submittal product data for Owner furnished materials will be provided to the Contractor for scheduling and installation use.

2.02 PRODUCTS

A. Source Limitations: Obtain all accessories from single source from single manufacturer.

B. Basis-of-Design: Specific products from Bobrick Washroom Equipment, Inc. and others are identified on the Drawings by model number. Provide either the identified product or a comparable product form one of the following manufacturers:

1. A & J Washroom Accessories
2. A.S.I.
3. Bradley Corporation.
4. Surface Mounted Vertical Soap Dispenser: American Specialties Model 0347
5. Electric Hand Dryers: American Specialties Model 0165. Coordinate model voltage with electrical before ordering.
6. Baby Changing Station: Equal to Koala Kare model KB112-01CT Countertop surface mounted unit.
7. Mirrors: Equal to Vandal Stop by Atlas American Products LLC (Phone No. 530-894-7867) Model AA-MVL: Safety Mirror, 14 ga. stainless steel, finish #4 satin. Refer to Drawings for locations and size(s).
8. Toilet Tissue Dispenser: Owner furnished and installed. Custom fabricated by Owner per City of Mobile specifications.

2.04 MATERIALS.

A. Stainless Steel: ASTM A 666, Type 304, 0.031-inch (0.8-mm) minimum nominal thickness unless otherwise indicated.

B. Brass: ASTM B 19, flat products; ASTM B 16/B 16M, rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.

C. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.036-inch (0.9-mm) minimum nominal thickness.

D. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 (Z180) hot-dip zinc coating.

E. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.

F. Fasteners: screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant.

G. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).

H. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.05 FABRICATION

A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

C. Furnish and install surface-mounted Nova Cast Aluminum, Integral Nozzle, Automatic Hand Dryer 100 to 240 Volts.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

B. Grab Bars: Install to withstand a downward load of at least 250 lbf (1112 N), when tested according to ASTM F 446.

C. Install hand dryers level, plumb and firmly anchored into walls using manufacturer’s recommended anchors. Apply a bead of sealant around edges of cover to wall.

D. Verify that folding benches, if provided, are installed to provide 500 lb. support limit.

3.02 ADJUSTING AND CLEANING

A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.

B. Remove temporary labels and protective coatings.

C. Clean and polish exposed surfaces according to manufacturer's written instructions.

END OF SECTION

SECTION 10431 SIGNS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Panel signs.
2. Stand-off Letters
3. Signage accessories.

1.02 COORDINATION

A. Coordinate locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.03 SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of sign.

B. Product Schedule: Include plans, elevations, and large-scale sections of typical members and other components. Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation details.

1. Provide message list for each sign, including large-scale details of wording, lettering, artwork, and Braille layout.

C. Samples for Initial Selection: For each type of sign material indicated that involves color selection.

D. Samples for Verification: Include the following Samples to verify color selected and style selections:

1. Panel Signs: Full-size samples.
2. Approved samples will not be returned for installation into Project.

E. Qualification Data: For Installer.

F. Maintenance Data: For signage cleaning and maintenance requirements to include III maintenance manuals.

1.06 QUALITY ASSURANCE

A. An Installer Qualifications: An authorized representative of signage manufacturer for installation and maintenance of units required for this Project.

B. Source Limitations: Obtain each sign type through one source from a single manufacturer.

C. Regulatory Requirements: Comply with the Americans with Disabilities Act (ADA) and with code provisions as adopted by authorities having jurisdiction.

1. Interior Code Signage: Provide signage as required by accessibility regulations and requirements of authorities having jurisdiction. These include, but are not limited to, the following:
   a. Illuminated Exit Signs: Refer to Electrical Drawings.
   b. Room Capacity: See Architectural Drawings.

PART 2 – PRODUCT

2.01 PANEL SIGNS

A. General: Provide panel signs that comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.

B. Basis-of-Design Product: Subject to compliance with requirements, provide Best Sign Systems; Strata and Strata Updateable Signs or a comparable product by one of the following:

1. Andco Industries Corp.
2. APCO Graphics, Inc.
3. ASI Sign Systems, Inc.
4. Innerface Sign Systems, Inc.
5. Mohawk Sign Systems.

C. Cast-Acrylic Sheet: Manufacturer's standard and as follows:

1. Color: As selected by Architect from manufacturer's full range.

D. Plastic Laminate: Provide high-pressure laminate engraving stock with face and core plies as selected by Architect from manufacturer's full range.

E. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of5005-H15.

F. Laminated Panels: Permanently laminate face panels to backing sheets of material; use manufacturer's standard process.

G. Graphic Content and Style: Provide sign copy that complies with requirements indicated in the Sign Schedule and on Drawings for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage.

D. Changeable Message Inserts: Fabricate signs to allow insertion of changeable messages in the form of transparent covers with paper inserts printed by Owner.

1. Furnish paper and software for creating text and symbols for IBM compatible computers for Owner production of paper inserts.
2. Furnish paper cut-to-size for changeable message insert.

E. Tactile and Braille Copy: Manufacturer's standard process for producing copy complying with ADA Accessibility Guidelines and ICC/ANSI AII7.I. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square cut edges free from burrs and cut marks.

1. Panel Material: Opaque acrylic sheet.
2. Raised-Copy Thickness: Not less than 1/32 inch.

F. Engraved Copy: Machine engraves letters, numbers, symbols, and other graphic devices into panel sign on face indicated to produce precisely formed copy, incised to uniform depth.

1. Engraved Plastic Laminate: Engrave through exposed face ply of plastic-laminate sheet to expose contrasting core ply.

G. Applied Copy: Die-cut characters from vinyl film of nominal thickness of 3 mils with pressure sensitive adhesive backing. Apply copy to exposed face of panel sign, glass, doors, and wall surfaces as indicated on Architectural Drawings.

1. Panel Material: Opaque acrylic sheet.

H. Colored Coatings for Acrylic Sheet: For copy and background and frame colors, provide Pantone Matching System (PMS) colored coatings, including inks and paints that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are non-fading for application intended.

2.02 PANEL SIGN TYPES

A. Room Signs:

1. Material: Exterior Grade, Cast-acrylic sheet. Exterior Performance.
2. Copy: Tactile and Braille. Character Style: Helvetica.
3. Text: As indicated in the Sign Schedule. Message: N/A.
4. Sizes:
   a. Sign: As indicated on Drawings.
   b. Character: Minimum l-inch- high characters.
5. Colors:
   a. Character: As selected by Architect from manufacturer's full range.
   b. Background: As selected by Architect from manufacturer's full range.
6. Schedule: See Drawings.

B. Monument Sign Stand-off Letters:

7. Material: Exterior Grade, Cast Aluminum
8. Copy: Tactile and Braille. Character Style: Helvetica.
9. Text: As indicated in the Drawings. Message: N/A.
10. Sizes:
    a. Sign: As indicated on Drawings.
    b. Character: Minimum 10-inch and 6-inch high characters. See Drawings.
11. Colors:
    a. Character: As selected by Architect from manufacturer's full range.
12. Schedule: See Drawings.

2.03 ACCESSORIES

A. Vinyl Film: Provide opaque non-reflective vinyl film, 0.0035-inch minimum thickness, with pressure-sensitive adhesive backing suitable for both exterior and interior applications.

B. Mounting Methods: Use concealed fasteners fabricated from materials that are not corrosive to sign material and mounting surface.

C. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and. elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchor-so Furnish inserts, as required, to be set into concrete or masonry work.

2.04 FABRICATION

A. General: Provide manufacturer's standard signs of configurations indicated.

1. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.
3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.

2.05 FINISHES, GENERAL

A. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other

components are acceptable if they are within range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Verify that items, including anchor inserts, and electrical power provided under other sections of Work are sized and located to accommodate signs.

C. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Locate signs and accessories where indicated, using mounting methods of types described and in compliance with manufacturer's written instructions.

B. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance.

C. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable.

D. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door. Mount sign centered approximately 5-feet 0-inches above finish floor.

E. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below:

1. Mechanical Fasteners: Use non-removable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and. anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

F. Cast-Metal Plaques: Mount plaques using standard fastening methods to comply with manufacturer's written instructions for type of wall surface indicated.

1. Concealed Mounting: Mount plaques by inserting threaded studs into tapped lugs on back of plaque. Set in predrilled holes filled with quick-setting cement.

G. Where panel signs are scheduled or indicated to be mounted on glass, provide matching plate on opposite side of glass to conceal mounting materials.

3.03 CLEANING AND PROTECTION

A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

3.04 SIGN SCHEDULE

A. See Drawings for more information.

END OF SECTION

SECTION 10435 DEFIBRILLATORS AND CABINETS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Automated external defibrillator, including cabinet, accessories and mounting brackets.

1.02 ACTION SUBMITTALS

A. Product Data: Manufacturer's technical data and installation instructions.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Basis-of-Design Product: Subject to compliance with requirements, provide product manufactured / distributed by (J.L. Industries, Inc., 4450 W. 78th Street Circle, Bloomington, MN 55435. Tel. (612) 835-6850) or comparable product by one of the following:

1. Philips Healthcare, Andover, MA. Tel. (866) 333-4246.
2. Physio-Control, Inc., Redmond, WA. Tel. (800) 442-1142.

B. Substitution that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.02 AUTOMATED EXTERNAL DEFIBRILLATOR

A. Defibrillator: Provide Defibrillator for location(s) as indicated on the Drawings, equal to Medtronic LIFEPAK® CR "plus".

B. Cabinets: Provide cabinet(s) equal to J.L. Industries stainless steel recessed type cabinet complying with ADA requirements. Provide Fire-FX option where located in a fire rated wall. Cabinet shall accommodate the Medtronic LIFEPAK® CR "plus" Defibrillator. Provide complete unit(s) with Commander Alarm and Saf-T-Lok™ options.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine the areas and conditions under which automated external defibrillator(s) are to be installed. Do not proceed with the Work until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Installation General: Comply with all ADA requirements including proper mounting heights.

B. Install items included in this section in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.

C. Securely fasten mounting brackets to structure, square and plumb, to comply with manufacturer's instructions.

D. Defibrillator unit(s) shall be mounted in exposed locations as indicated on the Drawings, or if not indicated, as directed by the Architect. A minimum of one unit is required.

E. Check cabinet(s) for scratched, nicked, and other surface defects. Cabinet(s) with these conditions shall be repaired or replaced.

3.03 CLEANING AND PROTECTION:

A. At completion of installation, clean surfaces in accordance with manufacturer's instructions.

B. Protect unit(s) from damage until acceptance by Owner.

END OF SECTION

SECTION 10525 FIRE EXTINGUISHERS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Portable multi-purpose, dry-chemical fire extinguisher(s) including mounting brackets.

1.02 ACTION SUBMITTALS

A. Product Data: Manufacturer's technical data and installation instructions for all portable fire extinguishers required.

1.03 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

1.04 QUALITY ASSURANCE

A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."

B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.

C. Coordinate type and capacity of fire extinguishers with fire protection cabinets to ensure fit and function.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Drawings and Specifications are based on products manufactured by J.L. Industries, Inc., 4450 W. 78th Street Circle, Bloomington, MN 55435. Tel. (612) 835-6850.

B. Equivalent products by the following manufacturers are acceptable:

1. Amerex Corp., Trussville, AL. Tel. (205) 655-3271.
2. Larsen’s Mfg. Co., Minneapolis, MN. Tel. (612) 571-1181.
3. Potter-Roemer, Santa Ana, CA. Tel. (800) 366-3473.

C. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.02 FIRE EXTINGUISHERS

A. Provide fire extinguishers for each location indicated, in colors and finishes that comply with requirements of governing authorities.

B. Multi-Purpose Dry Chemical for Surface Mounting: Equal to J.L. Industries Cosmic 10E, UL rated 4A-80BC, 10 lb. nominal capacity.

2.03 MOUNTING BRACKETS

A. Mounting Brackets: Provide manufacturer's bracket designed to prevent accidental dislodgment of extinguisher, of proper size for type and capacity of extinguisher indicated, in manufacturer's standard plated finish.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install items included in this section in locations and at mounting heights indicated, or if not indicated, at heights to comply with ADA and applicable regulations of governing authorities.

B. Examine fire extinguishers for proper charging and tagging.

1. Remove and replace damaged, defective, or undercharged fire extinguishers.

C. Securely fasten mounting brackets to structure, square and plumb, to comply with manufacturer's instructions.

D. Fire Extinguisher unit(s) shall be mounted in exposed location(s) where indicated on Drawings.

END OF SECTION

SECTION 13930 BLEACHERS

PART 1- GENERAL

1.01 SECTION INCLUDES

A. This Section includes aluminum bleachers, dugout benches and related work as specified herein and as shown on the Drawings.

1.02 SUBMITTALS

A. Product Data: Manufacturer's data and installation instructions.

1.03 WARRANTY

A. Provide in required form for a period of 1 year from date of acceptance by Owner.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Drawings and Specifications are based on products manufactured by GT Grandstands™, Inc., 2810 Sydney Road, Plant City, FL 33566. Tel. (866) 550- 5511, Fax (813) 305-1419.

B. Equivalent products by the following manufacturers are acceptable:

1. IPI by Bison, 603 L Street, Lincoln, NE. Tel (800) 637-7968
2. Southeastern Seating, 903 E. 17th Ave., Tampa, FL. Tel. (813) 273-9858.
3. Or approved equal.

C, Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures

2.02 BLEACHERS

A. Items:

1. (1) 4 Row by 21'-0" long handicap aluminum bleacher GT Grandstands Model No.LU-0421AS-HC.
2. (1) 4 Row by 15'-0" long aluminum bleacher GT Grandstands Model No.LU-0415AS.

B. Design: The bleachers shall be designed to support, in addition to their own weight, a uniformly distributed live load of not less than 100 psf of gross horizontal projection of the bleachers. All seat and foot plank members shall be designed to accommodate 200 plf across a 6'-0" span with a maximum deflection of 9/16 inch.

1. The bleachers shall be designed to resist, with or without a live load, a horizontal wind load of 30 psf of gross vertical projection. In addition to the live load,
2. The bleachers shall be designed to resist the following sway forces: (1) 24 plf of seat plank in a direction parallel to the length of the seat, and (2) 10 plf of seat plank in a direction perpendicular to the length of the seat.

3. Under these loads, stresses in aluminum members and connections shall not exceed those specified for Building Type Structures by the Aluminum Association.

C. Construction: The understructure, including crossbracing, shall be of a welded, aluminum angle (6061- T6 alloy, mill finish) construction. The understructure of each unit shall consist of frames spaced at 6'-0" centers joined by crossbracing at adequate points to comply with the design loads.

D. Frame Member Sizes:

1. Seat Posts: 3 inches by 2 inches by 3/16 inch min. (Row 4); 1-3/4 inch x 1-3/4 inch by 3/16 inch min. (All other rows)
2. Foot Brackets: 2 inches by 2 inches by 3/16 inch min.
3. Crossbracing: 1-1/2 inch by 1-1/2 inch by 3/16 inch min.
4. Bottom Runners: 2 inches by 2 inches by 3/16 inch min.

E. Dimensions: The rise per row shall be 6", front row seat height 12 inches above grade, and tread depth per row of 24 inches. Overall depth of unit is 6'-11 5/8". Clear width of unit is 15'-0" and 21'-0" at HC unit. Top row seat height is 2'-6".

F. Seat Plank: Seat planks shall be 2 inches by 12 inches nominal, extruded 6063-T6 aluminum alloy with a clear anodized finish and end cap. (Finished size shall be 1-3/4 inch by 11-5/8 inches, .075 inch wall with two internal legs.)

G. Tread Planks: Tread planks shall be of two 2 inches by 10 inches nominal, extruded 6063-T6 aluminum alloy with a mill finish and end cap. (Finished size shall be 1-3/4 inch by 11-5/8 inches, .075 inch wall with two internal legs.)

H. Aluminum Plank Hardware: Tie-down assemblies consisting of a four-way adjustable aluminum clip, with galvanized bolt with nut and washer shall be provided for each connection point at each support.

I. Anchoring: Bleacher shall be anchored to a concrete slab using 1/2 inch by 2-3/4 inches galvanized expansion anchors (two per frame).

2.03 DOUGOUT BENCHES

A. Item:

1. (3) 2 inches by 10 inches aluminum seat planks and galv. bench frame with endcap attachments. GT model TB-SIG08. These new bench top sections to be cut in the field to lengths indicated on Drawings & capped at the raw ends. Tops shall be installed onto existing steel posts embedded in concrete slabs.
2. (1) 2 inches by 10 inches aluminum seat planks and galv. bench frame with posts included. GT model TB-SIG08.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine conditions of work in place before beginning work; report defects.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install in conformance with referenced standards, manufacturer's written directions, as shown, and / or as specified.

B. Install bleachers level, plumb, true, and securely anchored at locations as shown.

3.03 CLEANING

A. Keep premises free from accumulation of waste and debris. At completion of installation remove surplus materials and debris.

B. At completion clean exposed surfaces in a manner that will not damage finish.

END OF SECTION

SECTION 15100 GENERAL REQUIREMENTS FOR MECHANICAL WORK

PART 1 – GENERAL

1.01 GENERAL SCOPE OF WORK

A. This project is for providing new HVAC equipment for the new concessions building at James M. Seals Park. It is intended that specifically identified equipment shall be installed new to ensure complete and functional systems. More specifically, equipment included in this scope of work shall include, but is not limited to:

1. Wall Mounted Electric Unit Heaters
2. Ductless Mini Split Heat Pump
3. Ductwork
4. Grilles, Registers, & Diffusers
5. Exhaust Fans
6. Insulation

B. The contract drawings specifically describe the work required for each unit of equipment. The contract specifications specifically describe the products to be provided. All documents shall serve as an integral part of the other and be considered as one. Any conflicts between these documents shall be resolved prior to bidding. It is expected the worst case description (i.e.- more expensive, higher quantity) shall take precedence in the event of a discrepancy.

1.02 GENERAL REQUIREMENTS

A. Scope of Section: Include all materials, equipment, and labor necessary for complete and properly functioning mechanical installations in accordance with local and state codes, contract drawings and as specified in all 15000 series of these specifications.

1.03 DRAWINGS

A. Mechanical drawings indicate the general arrangement and extent of work. Exact locations and arrangements of materials and equipment shall be determined in the field prior to beginning any work to conform in the best possible manner with the surroundings and with the adjoining work of other trades. References to locations of equipment, devices or fixtures shall be verified in the field with actual dimensions and not by scaling drawings

1.04 COORDINATION OF WORK

A. Prior to installation, coordinate all work with work of other trades and with field conditions in sufficient detail to preclude interferences between the work of different trades and to insure necessary clearances at equipment. Work requiring necessarily fixed locations such as graded piping shall take precedence over work not requiring such fixed locations and shall establish permissible routing of services associated with the latter. Should work be performed without adequate coordination so that interferences occur between work of different trades, Contractor shall eliminate such interferences by requiring necessary rework by the trades involved. Such rework shall meet approval of Engineer and shall incur no additional cost to Owner.

B. The Contractor shall coordinate the contract drawings and specifications for all other trades and shall report any discrepancies between them to the Engineer and obtain from him written instructions for changes necessary in the mechanical or electrical work. All work shall be installed in cooperation with all other trades. Before installation, the Contractor shall make proper provision to avoid interferences in a manner approved by the Engineer. All changes required in the work of the Contractor due to his neglect shall be corrected by the Contractor at his own expense.

1.05 CODES, PERMITS, TAXES

A. Governing Law: Refer to "General Conditions". Work shall meet requirements of applicable codes, ordinances, rules and regulations, in effect at time of signing contract of any body or bodies having jurisdiction, including utilities.

B. The Contractor shall comply with all county, district, municipal, or local building codes, interpretations, buildings permits to include but not be limited to the latest editions of:

1. ASHRAE, 2012 "HVAC Systems and Equipment" - Chapter 19, Duct Construction
2. SMACNA Standards for Duct Construction
3. International Building Code – 2015
4. International Plumbing Code – 2015
5. International Mechanical Code – 2015
6. International Fuel Gas Code – 2015
7. NFPA-90A (2009) - Installation of Air Conditioning and Ventilation Systems
8. Local Municipal Codes

C. The Contractor shall obtain and pay for all required permits, inspections, and certificates of inspection. Certificates of inspection shall be delivered to the Architect/Engineer/Owner upon completion of the job.

D. Correction of Work: Work done contrary to above requirements shall be corrected at no additional cost to Owner.

E. Permits, Fees and Taxes: Refer to "General Conditions". Secure and pay for all necessary permits, inspections, licenses, meters, connections, etc. that may be required; pay all required taxes. Owner shall pay any environmental impact fee incurred. Certificates of inspection shall be delivered to Architect/Engineer upon completion of project. Per the State of Alabama Building Commission Administrative Rule 170X-8 Collection of User Fees, the Permit Fee shall be included in the Contractor's bid and be paid by the Contractor.

1.06 DISCREPANCIES

A. In case of differences between drawings and specifications, or where drawings and/or specifications are not clear or definite, the subject shall be referred to Engineer for clarification and instructions. Such items should be directed to Engineer prior to taking bids.

1.07 SUBMITTALS

A. Refer to Section "General Requirements".

B. Material List: Within thirty (30) days of award of contract, Contractor submit a complete list of materials to be provided for the mechanical work. List shall include manufacturer's name and

catalog number or series for each item on list.

C. Shop Drawings: Before commencing work, submit drawings of all mechanical materials and equipment to be furnished under this contract. In addition, submit other drawings or diagrams, dimensioned and in correct scale, requested by Engineer to clarify the work intended to show its relationship to adjacent work or work of other trades. Drawings shall clearly indicate all characteristics, special modifications or features, and exceptions to or deviations from contract requirements.

D. Samples: Submit samples of materials upon request for approved substitutions and as listed elsewhere herein. Samples shall duplicate materials, workmanship, and finish of products intended for installation.

1.08 RECORD DRAWINGS

A. Provide in accordance with "General Requirements" section.

1.09 INSTRUCTIONS

A. Personnel: After completion of installation, competent personnel shall be furnished to instruct Owner's personnel in operation and maintenance of systems.

B. Written: Furnish three (3) copies of instructions for operating various systems, including complete description of functions and operations of each piece of equipment, automatic control hook-up. Control devices shall be identified and their actual location in building noted on diagrams. Include cleaning, oiling, and greasing instructions of each item of equipment. Spare parts list and source of supply shall be identified for each item of equipment. Furnish in loose leaf hardboard 3-ring binders to Engineer (for delivery to Owner).

1.10 FINAL CHECK

A. Before submitting proposals, each bidder shall examine all drawings and specifications issued by the Engineer and shall examine the site of work. He shall be fully informed as to character of his work and coordination of his work with that of other trades. No consideration will be given at a later date for alleged misunderstandings as to requirements of work, materials to be furnished or conditions required by nature of site.

1.11 FOUNDATIONS

A. The Contractor shall furnish all special foundations and supports for equipment which he installs and which are separate and distinct from building construction as shown by Engineers drawings. Support equipment from structures in a manner acceptable to the Engineer.

1.12 SAFETY PROVISIONS

A. Belt, pulleys, chains, gears, couplings, projecting set screws, keys and other rotating parts located so that any person may come in close proximity thereto, shall be fully enclosed or properly guarded.

1.13 RELATED WORK

A. The following items of material and labor incidental to or related to the work will be provided as follows:

B. Cutting and patching of existing building structure for location of pipes, air ducts, etc., shall be provided by this Contractor. Patching and finishes shall be performed by affected trades.

C. Furring around pipes, ducts, etc., shall be by General Contractor.

D. All exposed metal work shall be coated or painted with a corrosion resistant material. Coordinate procedure and color with Architect.

E. All electrical power wiring, conduit, etc., for motors and motor starters shall be furnished and installed by the electrical contractor. Electrical automatic control devices, relays, etc., required for electrical interlock for operation of system shall be furnished complete by this Contractor in strict accordance with all requirements of wiring specifications as a part of the control system. Motor starters shall be provided under this section of this specification.

PART 2 – PRODUCTS

2.01 GENERAL

A. Quality: Conform to the quality and features specified and indicated on drawings. Where material or equipment is indicated or necessary, but not specifically described in the specifications or drawings, such shall conform to the quality and features of similar items so described or otherwise indicated.

2.02 SLEEVES

A. Pipe Sleeves:

1. Walls and Partitions: Sleeves 8" Diameter and Smaller (Above Grade): Mild steel or plastic built into wall, partition or beam sized to pass pipe and covering, leaving a clear space of ¼" minimum between covering and sleeves.
2. Floors (Above Grade): 14-gauge galvanized steel or plastic, set before floor is poured, sized to pass pipe and covering, leaving a clear space of ¼" between covering and sleeve, and shall extend ½" above finished floor.
3. Exterior (Below Grade): PVC pipe, size and weight indicated for passage of piping and conduit under paving and walks. Set at a depth to prevent damage by traffic, and mark location (so that they may be recovered when necessary).
4. Duct Sleeves: Sleeves or openings sized to pass mechanical ducts and coverings of framed construction in roof, walls and partitions.
5. Sealing of Sleeves:
   a. Below Grade: Caulk annular space between pipe and sleeve using oakum and poured lead both sides minimum 1" deep to make floor penetration watertight.
   b. Above Grade: Make openings around pipes, etc., passing through sleeves draft-free and vermin-proof by packing solidly using mineral wool or glass fiber.

2.03 SUPPORTING DEVICES

A. Inserts:

1. Preset Type: Malleable iron with removable interchangeable nuts having lateral adjustment of not less than 1_". Continuous inserts shall have a capacity of 2000 lbs. per foot and shall be hooked over reinforcing. Acceptable: C-B Universal Fig. 282; Unistrut

Products Co., P-300; Binkley B-32-1.

2. Afterset Types: Self-drilling style expansion shields shall be used in concrete and brick. Toggle bolts shall be used on block walls and partitions.

B. Steel Framing:

1. Support hangers from bar joists with clamps or other means acceptable to Architect. Refer to Construction Drawings for limitations and requirements for providing reinforcing of joists at hanging points.
2. Hangers shall be plumb within 1/2 inch in 4'-0" and spaced as required for the service intended.
3. Where unforeseen conditions necessitate additional hangers, install same in locations subject to Architect's approval.

C. Stud Partitions:

1. All anchorage shall be to studs or solid blocking built into the wall.

D. Equipment, Piping and Duct Hangers:

1. Provide angles, brackets, clamps, anchors, braces, frames, rods and other miscellaneous steel items as necessary for support of equipment and piping specified herein.
2. All piping, ducts, etc., shall be run parallel with the lines of the building, unless otherwise shown or noted on the drawings. The different service pipes, valves, fittings, etc., shall be so installed that after the covering is applied there will be not less than 1/2 inch clear space between the finished covering and other work, and between the finished covering of parallel adjacent pipes. Hangers shall be so spaced to prevent sag and to permit proper drainage. Exact location of piping, ducts, etc., shall be coordinated between subcontractors so that there will be no interference.

2.04 FLOOR, WALL AND CEILING PLATES OR ESCUTCHEONS

A. Furnish escutcheons or fabricated plates or collars and install at each location where pipe or duct passes through a finished surface. Escutcheons for flush sleeves shall be equal to Benton & Caldwell No. 3A chromium plated brass; for sleeves extending above floor shall be equal to Benton & Caldwell No. 36 chrome plated brass. Collars or plates for ducts and large diameter insulated pipe shall be fabricated of 18-gauge galvanized copper bearing steel, secured to structure and neatly fitted around duct or pipe.

2.05 ACCESS DOORS

A. Each door shall be equipped with two flush, screwdriver operated cam latches and other than Style "M" shall be finished to match adjacent surface. Door sizes shall be applicable to the access required for normal service. Doors shall be manufactured by the Inryco/Milcor or an acceptable equal, as follows:

1.

Location	Milcor Style
Drywall	"DW"
Masonry or Tile	"M-Stainless"
Acoustical Tile	"AT"
Plaster	"K"
Fire-rated Wall	"Fire Rated"

B. Furnish as necessary for access to concealed valves, cleanouts, unions, expansion joints, dampers, coils, junction boxes, etc., where no other means of access is shown or specified.

2.06 PAINTING AND MARKING

A. Painting: Painting of equipment, pipe, and ducts (insulated or un-insulated) shall be as specified in Section "Painting". Touch up of shop coats shall be performed under section furnishing equipment and shall match equipment factory finishes.

B. Marking:

1. Pipes: All utility piping above and below the ceiling shall be stenciled with name of service to indicate the use of pipe and with arrows to indicate direction of flow. Stencils shall be applied after final painting is completed. In lieu of stencils, pipe identification labels similar to "Brady" may be used. Bands shall be color coded. Markings shall be in accordance with ANSI Standard A-12.1.
2. Equipment: Fans, ducts, etc., shall be stenciled as specified above. Small equipment such as starters, control devices, etc., shall be neatly labeled with ¾" engraved, plastic labels, white letters on black background.

PART 3 – EXECUTION

3.01 ELECTRICAL

A. General: Unless specified otherwise, motors, starters, and control devices shall be furnished under the division of the specifications that covers the driven equipment. Motor starters shall be installed by the electrical contractor except where as an integral part of the equipment. Reference electrical plan for location of starters relative to specific equipment. All electrical power wiring, conduits, and connections shall be provided under the Electrical Section. Contractor furnishing driven equipment shall coordinate wiring diagrams with contract requirements and shall furnish coordinated wiring diagrams for installation.

B. Motors: Unless otherwise specified, each motor shall have sufficient capacity to start and operate the machine it drives without exceeding the motor nameplate ratings the speed required. (Except that the NEMA standard service factor may be applied to motors that are water or refrigerant cooled). The horsepowers specified are those estimated to be required by the equipment when operating at specified duties and efficiencies. If the actual horsepower for the equipment to be furnished differs from that specified or indicated on drawings, it shall be the responsibility of the Section furnishing equipment to insure that proper size feeders, breakers, etc., are provided at no change in contract cost. Motors shall be rated for continuous duty, at 100% of nameplate rating with a service factor of 1.15. Squirrel cage induction motors shall have normal starting torque, full voltage low starting current, constant speed continuous duty type. Motors shall be wound for specified voltage.

C. Starters shall be furnished under this section of the specification:

1. General: As specified with modifications and accessories as indicated in other Sections of this specification or by control diagrams on drawings. Starters shall have proper rating for motors controlled.
2. Over Current Protection: Contacts shall break each ungrounded line to the motor. A thermal Over current device shall be provided in each ungrounded line. All contacts shall open simultaneously upon tripping of any Over current device.
3. Magnetic Starters: For motors of ½ HP or larger, combination type with unfused disconnect switch, unless specified otherwise in other sections. Each starter shall have a control transformer with fused 120 volt maximum control circuit. Control transformer shall be of adequate capacity for all controls on the circuit. Starters shall have on-off-automatic switches in cover.
4. Manual Starters: Provide for motors through ¾ HP unless specified otherwise under equipment specifications.
5. All starters shall be provided with hand-off-auto switches, normally open and normally closed auxiliary contact.

END OF SECTION

SECTION 15200 TESTING AND BALANCING

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. The General Conditions, Supplementary Conditions and Division 1, General Requirements, apply.

B. This portion of work is to be included in the base bid.

1.02 QUALITY ASSURANCE

A. Testing Agency:

1. Submit name, address, and qualifications of testing agency to Architect/Engineer for approval prior to start of testing.
2. All system adjustments, test and balances are to be performed by a company regularly and exclusively engaged in this work. Agency shall be a member in good standing of the Associates Air Balance Council (AABC).
3. Procedures shall be as outlined in the latest AABC Publication for total system balance.

1.03 SUBMITTALS

A. Test Reports: After completion, submit three (3) hard copies of the certified copies of test and balance report to the Architect/Engineer for review and as a project record document.

1.04 JOB CONDITIONS

A. Commencement of Test: Do not begin balancing until the systems have been completed and are in full working order, or at the direction of the Architect/Engineer, place any part thereof in operation for the purpose of balancing.

B. Plans and Data: Furnish the balance agency one (1) complete set of all approved up-to-date mechanical plans and shop drawings of all cooling, heating and air distribution equipment.

1.05 FIELD QUALITY CONTROL

A. Performance Data: Record the following data and submit to the Architect/Engineer.

1. System Component Capacity: Record and calculate all data necessary to demonstrate capacity under actual operating conditions, and adjust dampers, valves, control valves and machine drives to obtain a suitable operating balance for each system. Record data for each item of equipment simultaneously with data from all associated equipment together with coincident outside air-dry bulb temperatures to permit evaluation of total system performance. Data to include the following:
   a. Supply, return and outside air quantities for each air conditioning and ventilation system.
   b. Air volumes and velocities for each fan, cooling coil and air cleaning assembly.
   c. Entering and leaving air dry bulb and wet bulb temperature for each cooling and heating coil (if integral to air handler).
   d. Static pressures for all air handling units.
   e. Actual voltage and current input for each motor.
2. Mechanical contractor is responsible for providing and installing all necessary sheaves required to properly balance systems.

1.06 COORDINATION

A. It shall be the test and balance sub-contractor's responsibility to coordinate with the Owner, design consultant, general contractor, HVAC sub-contractor and Owner's controls vendor to ensure all parties are informed of progress toward completion as well as difficulties encountered toward that end.

1.07 TEMPERATURE CONTROLS

A. Set adjustments of all controllers to operate according to existing operating sequence. Make four hour temperature traverse of each area or zone. Provide testing agency personnel with instruments to verify reports to Architect.

1.08 FINAL TEST

A. At conclusion of testing agency's work, demonstrate to the Architect/Engineer that the equipment is mechanically sound, that the systems deliver the rated output without objectionable noise, distress or vibration, and that the temperature controls are functioning properly.

ND OF SECTION

SECTION 15400 - PLUMBING

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. The work to be performed under this section of the Specification shall include all labor, materials, equipment, transportation, construction, facilities, and incidentals necessary for the proper execution and completion of all Plumbing work as shown and indicated on the Contract Drawings, and/or specified herein with the intent that the installation shall be complete in every respect and ready for use. The work required under this section of the specification shall include specifically, but is not limited to the following:

B. Cold water piping and connections to new fixtures as shown or indicated on the drawings.

C. Hot water supply piping including connections to new fixtures as shown or indicated on the drawings.

D. A system of sanitary soil, waste, and vent piping including connections to existing services, and new fixtures as shown or indicated on the drawings.

E. A system of thermal insulation for all new potable water piping.

F. All fixtures and equipment as hereinafter specified, completely installed and operational.

G. All necessary cutting and/or core drilling to install plumbing systems in this section.

1.2 RELATED DOCUMENTS

A. Drawings and general provision of the Contract, including General and Supplementary Conditions and Division 1 specification sections apply to work specified in this section

1.3 GUARANTEE

A. All materials and equipment provided and/or installed under this section of the specifications shall be guaranteed for a period of one year from the date of acceptance of the work by the Owner. Should any trouble develop during this period due to defective materials or faulty workmanship, the Contractor shall furnish all necessary labor and materials to correct the trouble without any cost to the Owner. Any defective materials or inferior workmanship noticed at the time of installation and/or during the guarantee period shall be corrected

immediately to the satisfaction of the architect.

1.4 CODES AND REGULATIONS

A. All work performed under this section shall conform with all local governing regulations, and in case of conflicting requirements, the most stringent shall apply. Minimum requirements shall be the International Building Code. All electrically operated equipment specified in this section shall comply with the National Electrical Code.

B. Should it be found that any part of the work shown or specified is not in accordance with local regulations, the Architect shall be so advised at the time of bidding and all work installed as required to meet the local codes.

C. The Contractor shall comply with the latest revisions of all county, district, municipal, or local building codes, interpretations, buildings permits to include but not be limited to:

2021 International Building Code
2021 International Fuel Gas Code
2021 International Mechanical Code
2021 International Plumbing Code
NFPA-101 - Life Safety Code
Local Municipal Codes
2020 National Electrical Code (NFPA 72)

1.5 FEES AND PERMITS

A. The Plumbing Subcontractor shall obtain and pay for all permits, fees for inspection, and other charges that may be necessary for fully completing the work. The Plumbing Subcontractor shall make all necessary tests required by City, County, or State authorities, legal regulations, and/or the Architect, and return to the Architect any certificates of approval issued in this district for plumbing work, etc. signed by the inspector in charge of each particular part of the work.

1.6 RECORD DRAWINGS

A. Contractor shall keep a set of up-to-date as-built drawings on site at all times and log all changes made during construction period. No deviations from the drawings and specifications shall be made without full knowledge and consent of the Architect. Record drawings shall show dimensions, locations, and depth of all buried and concealed piping, plugged outlets, and equipment, and shall keep up-to-date. No plumbing progress payments will be approved unless as-built drawings are up-to-date. Upon completion of work, drawings shall be turned over to the Architect.

1.7 COOPERATION

A. The Contractor shall lay out and proceed with his work so that this work will be executed in harmony with all other contractors and trades on the job.

1.8 VISITING THE PREMISES

A. The Contractor, before submitting his bid on the work, must visit the site and familiarize himself with all existing conditions. As a result of having visited the premises, the Contractor shall be responsible for the installation of the work as it relates to such existing conditions. The submission of a bid will be considered an acknowledgment on the part of the bidder of his visitation to the site.

1.9 VERIFICATION OF CONTRACT DRAWINGS

A. The drawings and specifications are intended to cooperate. Any materials, equipment, or systems related to this section and exhibited on the architectural and plumbing drawings, but not mentioned in the specifications are to be executed to the intent and meaning thereof, as if it were both mentioned in the specification and set forth on the drawings. Where the Contractor finds the specification and/or drawings to be in conflict or where they are not clear, same shall be brought to the attention of the Architect prior to submitting a bid.

B. The plans indicate the general arrangement of the existing utilities. The locations of piping are approximate for clarity. Exact locations shall be determined in the field by the Contractor. In the event it should become necessary to change the locations of any work due to building construction, etc., the Contractor shall secure the approval of the Architect before making the changes. Any changes approved by the Architect shall be made without added cost to the Owner. Under no circumstances shall the sizes indicated on the drawings be changed without securing written approval of the Architect.

C. The drawings are diagrammatic and do not necessarily show or indicate all fittings, offsets, and accessories which may be required. The Contractor shall carefully investigate the structural and finish conditions affecting all his work as well as the operational requirements of each system and shall arrange such work accordingly, furnishing such fittings, etc., as may be required for the proper and efficient functioning of each system. No unnecessary or unauthorized offsets will be permitted.

1.10 WORKMANSHIP

A. All workmanship performed under this section shall be executed in a first class manner in accordance with the best practices of the trade. The Architect reserves the right to accept or reject workmanship and determine when the Contractor has complied with the requirements herein specified. Only competent mechanics skilled in their respective trades shall be employed by the Contractor.

1.11 RESPONSIBILITY OF BIDDER

A. Each bidder shall visit the site of the proposed work and fully acquaint himself with conditions relating to the construction requirements so that he may fully understand the facilities, difficulties and restrictions contingent upon the execution of the work under this contract. The failure or omission of any bidder to receive or examine any form, instrument, addendum or other document shall in no way relieve any bidder from his obligations with respect to his bid or the contract. The submission of a bid shall be taken as prima fascie evidence of compliance with this paragraph and that he has included in his proposal every item of cost necessary for a complete installation of air conditioning, heating and ventilation operations strictly as planned, specified, and intended.

1.12 NOISE AND VIBRATION

A. This Contractor shall be held responsible for elimination of all noises or vibrations transmitted to occupied areas from equipment which he may install. This applies particularly to vibration and noises in piping. He shall furnish and install water hammer arrestors, flexible connectors for piping, etc., as may be necessary.

1.13 SUBMITTAL DATA

A. Materials and equipment schedules shall be submitted as soon as practicable, but not later than 30 days after the date of award of contract, and before commencement of installation of any material or equipment. A complete schedule of the material and equipment proposed for installation shall be submitted in proper binders (3-ring or fastener type), properly marked for approval by the Architect. The schedule shall include catalogs, cuts, diagrams, drawings, specifications and such other descriptive data as may be required by the Architect. The schedule and supplementary data shall be submitted in six (6) copies, and approval obtained. All materials required to be submitted for approval under this section shall be submitted at one time.

B. Partial submittals will not be considered. Each item submitted shall be identified by its applicable drawing number.

C. Where equipment named as equivalent or approved equal are proposed for use by the Contractor, he shall be responsible to coordinate any changes with all trades affected.

D. The following equipment and material shall be submitted for approval:

1. Valves
2. Cleanouts
3. Access Panels
4. Insulation
5. Plumbing fixtures, including traps, supplies, and carriers
6. Grease Traps
7. Water Hammer Arrestors
8. Floor Drains
9. Trap Primers
10. Water Heaters

1.14 START-UP SERVICE

A. The Contractor shall put all items installed under this section into operation and shall instruct the Owner's maintenance personnel in all points requiring service and maintenance. Further, the Contractor shall make all adjustments and/or service requirements to said equipment during the first 60 days of actual occupancy.

1.15 PIPING

A. Provide pipe sleeves through masonry construction, and install escutcheon plates around exposed piping in all rooms.

B. Soil, waste and vent lines shall be Schedule 40 PVC-DWV in accordance with Commercial Standards CS272-65 or ASTM Standards D2665-68. Soil, waste, and vent lines penetrating a fire rated wall or floor shall be service weight cast iron at the point of penetration only.

C. All plastic pipe shall bear the NSF Seal of Approval, and such other markings as required by the aforementioned standards.

D. Above slab cold water and hot water piping shall be Type "L" hard copper with sweated joints, using wrought fittings and non-corrosive flux. Below slab cold water piping shall be type "K" soft copper tubing.

1.16 PIPE SUPPORT

A. Hangers: Support all suspended piping with clevis type hangers equal to Piping Technology and Products Fig. 83, 5'-0" o.c. When attached to open-web bar joists, the hanger shall be supported from both chords at the same time. The hanger is preferred to pass between the chords, not attached to the webbing member, and supported on top of the chords. This is a concentric application. Architect shall approve all methods of attachment of hangers to construction. Hangers in contact with copper piping shall be copper, or copper plated.

B. Vertical Support: Steel bar base clamped to pipe or grip strut channel with offset clamps. Support members to be of same material as supported material where possible.

C. All anchorages shall be to studs or solid blocking built into the wall. No plumbing straps shall be used.

1.17 PIPING PLACEMENT

A. Place in most direct manner permitted by construction, free of unnecessary offsets, making changes in direction by means of standard fittings.

B. Grade 2" waste lines 1/4" per foot and 3" and 4" waste lines 1/8" per foot for positive flow. Secure all piping to structure.

1. Changes in direction of drainage pipe shall be made by means of suitable bends and branches of Y's and long sweeps. Short radius quarter bends are prohibited. Make no change in direction of flow greater than 90 . Where different sizes of drainage pipes or fittings are connected, use standard increasers and reducers of proper size. Do not reduce size of drainage piping in direction of flow. Drilling and tapping of house drains, soil waste or vent pipes, and use of saddle hubs and bands are prohibited.

   Waste Arms: Type "K" copper or IPS brass pipe typical; Alloy steel or IPS brass pipe at urinals.

   Test Fittings: Not shown on the drawings; provide where required for partial tests. Provide test tees at base of all stacks.

2. Hand holes with brass ferrules and brass trap screws for cleanouts shall be placed at ends of soil and waste pipe and where otherwise shown on plans or as required on job. Cleanouts to be brought flush with face of walls. All threaded plugs shall be full size of pipe on which placed up to

4".

C. Soil Pipe: Support to firm earth below floor slabs.
1. Changes in direction of drainage pipe shall be made by means of suitable bends and branches of Y's and long sweeps. Short radius quarter bends are prohibited.
2. Connections of vertical soil pipe to all connections in horizontal soil pipe to be made by "Y" fittings.

D. Vent Pipes:
1. Main soil pipe stacks to be extended up through the building full size with increaser through roof per code.
2. Connect branch vents into main stacks with connections not less than 4 feet above the highest fixture.
3. All vent stacks shall be connected at the bottom to main drainage system and all horizontal runs shall be graded so as to discharge all water or condensation.

Water Piping: Place supply pipes as shown or as directed in neat arrangement and parallel or at right angles to walls, joists, etc.
Place shock absorbers at each fixture group as recommended by manufacturer. Shock absorbers shall be PDI certified.
Place valves on all water pipe risers and branch lines at point where risers and branch lines connect to main water lines.

PART 2 – PRODUCTS

2.1 WATER PIPING

A. All water piping, unless otherwise shown or specified shall be copper pipe Type L or K as specified having a wall thickness of not less than .035 inches. It shall be clean, round, straight, and true to size, free from flaws and other defects.

All fittings on copper pipe shall be copper. The pipe and fittings shall be thoroughly cleaned before inserting into the joint and then soldered with lead free solder.

UNIONS

Unions shall be provided on inlet and outlet of all apparatus and equipment. Where valves are adjacent to equipment, unions shall be between valves and equipment.

Unions in copper pipe shall be cast bronze, WOG pattern, ground joint, 150 psi type.

Unions in steel pipe shall be malleable iron, WOG female pattern brass seat, ground joint, 150 psi type.

Unions connecting dissimilar metals shall be dielectric type.

VALVES AND COCKS

Valves and cocks shall be installed where shown on the drawings, and/or where found to be necessary for proper operation of the system. All branches from risers, all branches from mains, and all fixtures or equipment not having stops shall be provided with valves whether shown or not.

Angle or straightway chromium plated stops on the supplies to all fixtures accessible from the same room in which the fixtures are located.

All valves shall be the product of one manufacturer as cataloged by Milwaukee, Stockham, Crane, or Nibco.

For water piping, valves shall be equal to 125 psi SWP/200 psi WOG Nibco as follows:
Gate valves 1/2" to 3" = S-111.
Ball valves 1/2" to 2" = S-585.
Check valves 1/2" to 3" = S-413W.

WALL HYDRANTS

Interior wall hydrants shall be encased, anti-siphon, automatic draining, keyed with nickel bronze face plate. Mount flush with wall. Wall hydrant shall be equal to Zurn Z-1330-XL. Coordinate wall thickness at installation location. Adjust location as necessary to enclose piping within the wall.

Exterior wall hydrants shall be encased, anti-siphon, automatic draining, non-freeze, with nickel bronze faceplate, keyed hinged cover. Wall hydrant shall be equal to Zurn Z-1322-EZ. Coordinate wall thickness at installation location. Adjust location as necessary to enclose piping within the wall.

THERMAL INSULATION WORK

All insulation work shall be performed by experienced insulation application mechanics thoroughly familiar with and experienced in the application of insulation materials. All insulation materials shall be applied in accordance with manufacturer's published recommended methods. Installation and finish of insulation materials shall meet with complete data for approval of materials and application methods as proposed for use. All piping shall be pressure tested and all surfaces shall be thoroughly cleaned before covering is applied. Insulation materials, including sealer, adhesive, finished, etc., shall meet NFPA Standards with regard to flame spread and support of combustion.

All domestic cold water piping and all hot domestic water piping less than 1-1/2” in

diameter shall be covered with 1" thick heavy density fiberglass sectional pipe insulation equal to Owens Corning Fiberglass 25 ASJ/SSL, excluding piping below grade or chromium plated fixture connections. All hot domestic water piping 1-1/2” in diameter or larger shall be covered with 1-1/2" thick heavy density fiberglass sectional pipe insulation equal to Owens Corning Fiberglass 25 ASJ/SSL, excluding piping below grade or chromium plated fixture connections. All piping inside masonry walls shall be insulated; no exceptions. Armaflex type insulation shall be allowed only before building is dried-in in those locations which will be inaccessible for the installation of the aforementioned fiberglass insulation. All exposed hot and cold water piping shall be labelled as required by ASME A13.1.

Fittings for the above shall be insulated with premolded fitting insulation of the same material and thickness as the adjacent insulation and shall be covered with a premolded plastic (PVC) vapor barrier and sealed with vapor barrier lagging adhesive. Covering adjacent to unions and other points of termination shall be finished with the plastic material neatly beveled.

It shall be the responsibility of the insulation subcontractor to coordinate hanger locations and prevent crushing or breaking finishes. Provide saddles with blocking as necessary.

Contractor shall insulate hot water supply assembly and P-Trap assembly with insulation kit equal to Brocar or Trubro on handicapped lavatories.

FLOOR, WALL, AND CEILING PLATES

Nickel plated floor, wall, and ceiling plates shall be provided on all pipes passing through floor, ceiling, or partition. Nickel or chromium plated escutcheons shall be provided on all fixture supplies.

PLUMBING FIXTURES AND EQUIPMENT

Provide roughing-in for and connect to supply lines, waste and vent lines, all equipment, fixtures, drains, etc., specified herein or in other sections of the specifications which require such connections.

Provide stops in hot and cold water connections to each fixture, equipment items, etc. Where not otherwise specified, stops shall be same as specified hereinbefore for ball valves. Provide deep escutcheon on all sinks and lavatories where waste pipe goes into wall. Anchor all supplies from wall securely within wall construction.

Provide stops for all fixtures. Traps for all fixtures shall be 17- gauge chromium plated brass.

Plumbing fixtures shall be equal to American Standard, Crane, Kohler, Just, Elkay or

Eljer. Faucets and valves shall be equal to Sloan, Zurn, Delta, American Standard, Kohler, Just or T&S Brass. No others will be accepted.

Plumbing fixtures shall be as follows:

P-1 WATER CLOSET: American Standard Madera FloWise 15" elongated with Everclean. 3453.001 Elongated bowl only, back spud with 5905.100 Extra heavy duty open front seat less cover and Sloan Royal 952 1.6 gpf flushometer.

P-1A HANDICAP WATER CLOSET: American Standard Madera FloWise 16.5" elongated LESS Everclean. 3249.001 Elongated bowl only, back spud with 5905.100 Extra heavy duty open front seat less cover and Sloan Royal 952 1.6 gpf flushometer.

P-2 URINAL: American Standard Washbrook FloWise universal wall hung urinal. 6515.001 universal back spud, vitreous china with Sloan Royal 995-1.0 flush valve and Zurn Z1222 wall carrier.

P-2A HANDICAP URINAL: American Standard Washbrook FloWise universal wall hung urinal. 6515.001 universal back spud, vitreous china with Sloan Royal 995-1.0 flush valve and Zurn Z1222 wall carrier. Mount fixture in compliance with ADA for handicap use.

P-3A HANDICAP LAVATORY: Trueform Concrete 20" ADA Floating Concrete Ramp Sink Model FLO-20V-ADA (or equal) with two brackets; FSB-L-S, Shroud SHRD-17, and Sloan Optima Sensor Faucet, 3335157.

P-3B HANDICAP LAVATORY: Trueform Concrete 72" ADA Floating Concrete Double Ramp Sink Model FLO-72V-DBL-ADA (or equal) with three brackets; FSB-XL, Shroud 2X SHRD-17, and Sloan Optima Sensor Faucet, 3335157.

P-4 CONCESSION HAND SINK: Advance Tabco Standard Hand Sink model 7-PS-45 with 7-PS-68 faucet. 4" O.C. splash-mounted gooseneck faucet with wrist handles. Provide with Zurn wall carrier, 17-gauge P-Trap, continuous waste, and flexible supplies.

P-5 CONCESSION TRIPLE SINK: Perlick Sink model TS(D)53C with 10" deck-mounted swing spout faucet with wrist handles.

P-6 DRINKING FOUNTAIN with BOTTLE FILLING STATION: Elkay EZH2O Vandal-Resistant Mechanical Bottle-Filling Station and Bi-Level Cooler Model VRCTLDDWSK MECH with floor-supported carrier and cane apron.

Floor Drains (Typical locations) Zurn ZN-415S Series with polished nickel bronze, square heel-proof strainer and adjustable collar. Floor drains shall be provided with trap primer tap as indicated on plans. (for AHU drainage) Zurn ZN-415I Series with nickel bronze top and "Type I" polished nickel bronze strainer with raised flange. Floor drains

shall be provided with trap guard device, (or equal), as indicated on plans. Floor drains shall be provided with trap primer tap or trap guard device where indicated on plans.

Floor Sink: Sani-floor receptors, J. R. Smith Model 3150 with 12" x 12" slotted grate and interior dome strainer. Coordinate grate types and exact locations of floor sinks with kitchen equipment supplier.

CLEANOUTS

Provide in cast iron sanitary piping at all changes in direction at ends of branches, at intervals not exceeding 40' on straight runs, and elsewhere as shown. Cleanouts shall be full opening type completely accessible. Size same as lines in which they occur, but not larger than 4". Tees and extensions shall be of same weight as pipe. Plugs shall be countersunk type. Catalog numbers from Josam or approved equal.

Outside cleanouts to grade shall be brought up flush with finished grade and installed in 18" x 18" x 6" concrete pad, cleanout plug shall be countersunk.

In Concrete Floors: 58190, adjustable head, cast iron head and ferrule with ABS plug, round loose set scoriated tractor cover.

In Outside Line: 58190 cast iron head and ferrule with ABS plug. Terminate at grade or pavement in 18" x 18" x 6" concrete pad with tooled edges.

In Finished Walls: 58790 cast iron cleanout tee with ABS plug and stainless steel wall plate cover. Where distance from plug to finish wall will exceed 4", provide 58710 extend cover from sanitary tee to bring plug within 4".

ELECTRIC TANK-TYPE WATER HEATERS

Provide electric water heater with high efficiency stainless steel sheathed elements which comply with ASHRAE Standard 90-75. Water heaters shall have capacity as scheduled and shall be equal in all respects to Rheem. Provide with 3” diameter thermometer gauge on discharge line, auxiliary drain pan, T&P relief valve, expansion tank, and vacuum breaker.

Provide Watts 100XL temperature and pressure relief valve, Watts N36 vacuum relief valve, galvanized drain pan, and 5-year warranty on tank. See schedule for electrical characteristics.

If the water heater has a storage capacity over 120 gallons or a heating rate of 56kW or greater, a boiler installation permit must be obtained from the State of Alabama Department of Labor. The heater installation and piping must also be inspected and approved by the State of Alabama Department of Labor.

PART 3 - EXECUTION

COMPLETION OF WORK

This Contractor shall arrange for the installation of all equipment in order that it progresses along with the general construction of the building, and in no case shall be hold up other phases of the work due to the fact his equipment is not properly installed.

TESTING

General: Perform all tests in the presence of the Architect or his representative. Test shall conform to local code requirements. File copies of all test reports in duplicate to physical plant.

Soil, Waste, and Vent Systems: Plug all openings, fill entire system with water to point of overflow and hold for at least one hour before inspection. System must remain full during the test without leakage. Each vertical stack with its branches may be tested separately, but any portion tested must have a 10' head. Provide test tees and plugs for all tests as required.

Drainage and Vent Systems final test. Fill all traps with water and then introduce into the entire system a pungent, thick smoke produced by one or more smoke machines. When the smoke appears at stack openings on the roof, the stack openings shall be closed and a pressure equivalent to a one-inch water column shall be held for a test period of not less than 15 minutes. The plumbing contractor shall provide all materials, equipment and labor to perform this testing.

Water Supply System: Test and secure acceptance of entire system before the piping or hot water heaters are otherwise concealed. Test as follows: Disconnect and cap all outlets to plumbing fixtures and all other equipment not designed for the full test pressure. Fill the system with water; apply 150 psi hydrostatic pressure and hold until inspection is completed. All piping throughout shall be tight under test. Water piping shall remain under normal water pressure during construction where freezing conditions do not exist.

DISINFECTION

Disinfect all domestic water piping in accordance with local health department guidelines.

ATTACHMENTS

General: Contractor to execute originals of attached copies.

Copy of Permit Request to Install Boiler or Pressure Vessel, State of Alabama Department of Labor

Copy of Boiler and Pressure Vessel Inspection Report, State of Alabama Department of Labor

ATTACHMENTS:

JIM BENNETT
COMMISSIONER

Ralph Pate
Chief Inspector
Elevator/Boiler
Safety Division

STATE OF ALABAMA
DEPARTMENT OF LABOR
100 NORTH UNION STREET-SUITE 620
P.O. BOX 303500
MONTGOMERY, ALABAMA
ZIP 36130-3500
PHONE (334) 242-3460 FAX (334) 240-3417

Boiler and Pressure Vessel Inspection Report

DATE INSPECTED	CERT. EXP DATE	CERT POSTED	INVOICE FOR INSP.	JURISDICTION #	Nat'l BD [ ] or Ser # [ ]
		YES [ ] NO [ ]	YES [ ] NO [ ]	AL	

OWNER NAME	NATURE OF BUSINESS	TYPE INSP
		PERMIT # _____ INT [ ] EXT [ ]

OWNER STREET ADDRESS AND P.O.BOX	OWNER CITY	OWNER STATE	OWNER ZIP

LOCATION NAME	SPECIFIC LOCATION	OBJECT LOCATION COUNTY

LOCATION ADDRESS LONGITUDE_____ LATITUDE _____	LOC CITY	LOC STATE	LOC ZIP
		ALABAMA	

TYPE BOILER	MAN HOLE	MANUFACTURER	FUEL
FT_____ WT_____ CI_____ COIL_____ ELECT BLR_____ OTHER _____	YES____ NO_____		N/A_____
BOILER USE: Process_____ Hws_____ St Ht _____ Hwh _____ Other _____			**FIRING METHOD** N/A_____

TYPE PRESSURE VESSEL
Air _____ Nitrogen_____ Water_____ Autoclave_____ Hot Water_____ Oxygen_____ Heat Exchanger_____ Other_____

PRESSURE VESSEL USE	CONTROLS TESTED
Process_____ Storage_____ Service_____ Other_____ (explain) _____	YES_____ NO_____ N/A_____

DIMENSIONS (length width height etc.) indicate in. and/or ft.	BOILER CAPACITY (indicate ht surface, lbs/h btu/h etc.)	YEAR BUILT	ASME CODE SYMBOL

MAWP	NO. OF SAFETY-RELEIF VALVES	SAFETY-RELIEF VALVES SET AT	TOTAL SAFETY-RELIEF VALVE CAPACITY, lbs/h btu/h cfm etc.)	PRESSURE GAGE TESTED?
				YES____ NO____

Special Billing Instructions:

Send Invoice to: Owner [ ] Location [ ] Contact Name_____

Send Certificate to Owner [ ] Location [ ] phone number_____

Violations / required action / compliance date(s) **Fee Schedule:** **CERTIFICATE**_____ **INSPECTION**_____

Signature of Inspector	Inspector AL CoC #	Company Name	Contact and phone number
I certify this is a true and correct report of my inspection.			

Neither this inspection nor any provision of this inspection shall be construed to place any liability on the state of Alabama, the Inspection Agency/Company or the Inspector with respect to any claim by any person, firm, or corporation relating in any way whatsoever to Boiler Inspections and injury or damage arising there from. Revised 112807

STATE OF ALABAMA
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JIM BENNETT
COMMISSIONER

SAFETY DIVISION
CHIEF
RALPH PATE

Permit Request to Install Boiler or Pressure Vessel

(ONE OBJECT PER REQUEST WITH $ 50.00 FEE)

Type of Installation	New [ ] Used [ ]
Type of Object	Boiler [ ] Water Heater [ ] Pressure Vessel [ ] (storage tanks)

Installer _____
Address 1 _____
City / Zip _____
Contact Name _____
Phone Number _____

Loc of Installation _____
Address 1 _____
City / Zip _____
Contact Name _____
Phone Number _____

Purchased From (Co. Name, address, contact and ph#)	
Manufacturers Name	
National Board Registration # All objects must be NB registered by the Mfg, except cast Iron or cast aluminum sectional boilers)	
MAWP (max allowable working pressure indicated on Mfg Data Plate)	
Indicate the appropriate ASME Code Symbol Stamp as indicated on Mfg's Data Plate (all boilers and Pressure vessels must be ASME code constructed, and will have one of these stamps on nameplate attached to the shell.	**S** [ ] Power Boiler (over 15 psi steam) **HLW** [ ] Water Heaters (over 200,000btu and/or 120 gals) **H** [ ] Heating Boilers/Hot Water Supply Boilers **M** [ ] Miniature Boiler (not to exceed 100 psi steam) **U** [ ] Unfired pressure vessel/Storage Tank Note: Water Heaters are classified as a boiler.
Serial Number	

Signature of Applicant _____

OFFICIAL USE ONLY

Approved by: _____ **Check No.** _____

Permit Number _____ Date _____/_____/_____

This Permit expires one year from the date signed by the Department or when installation is complete.
Revised 11/28/2007

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END OF SECTION

SECTION 15800 HEATING, VENTILATION AND AIR CONDITIONING

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. The General Conditions, Supplementary Conditions and Division 1, General Requirements, apply.

1.02 CODES, FEES, PERMITS

A. The Contractor shall comply with all county, district, municipal, or local building code, interpretations, building permits and assessments of fees for building permits, and ordinances.

B. The Contractor shall obtain and pay for all required permits, inspections, and certificates of inspection. Certificates of inspection shall be delivered to the Architect upon completion of the job.

C. The Contractor shall comply with the latest revisions of all county, district, municipal, or local building codes, interpretations, buildings permits to include but not be limited to:

ASHRAE, 2012 "HVAC Systems and Equipment" - Chapter 19, Duct Construction
SMACNA Standards for Duct Construction
International Building Code – 2015
International Mechanical Code – 2015
International Fire Protection Code – 2015
NFPA-90A (2009) - Installation of Air Conditioning and Ventilation Systems
Local Municipal Codes

1.03 RELATED WORK SPECIFIED ELSEWHERE IN THE SPECIFICATIONS

A. General Requirements for Mechanical Work - Section 15100

B. Test and Balance - Section 15200

C. Electrical - Division 16000 (Not Included-Refer to Electrical Deawings)

1.04 RESPONSIBILITY OF BIDDER

A. Prior to bid, each bidder shall visit the site of the proposed work and fully acquaint himself with conditions relating to the construction requirements so that he may fully understand the facilities, difficulties, and restrictions contingent upon the execution of the work under this contract. The failure or omission of any bidder to receive or examine any form, instrument, addendum, or other document shall in no way relieve any bidder from his obligations with respect to his bid or the contract. The submission of a bid shall be taken as prima facia evidence of compliance with this paragraph and that he has included in his proposal every item of cost necessary for a complete installation of air conditioning, heating and ventilation operations strictly as planned, specified, and intended.

1.05 SUB-DIVISIONS OF WORK

A. Each sub-division of work includes furnishing and installing all materials to make that part of work complete, and shall comprise all auxiliaries, setting of equipment, sleeves through building construction where required and etc., all in complete coordination with General Contractor and in cooperation with other trades. It is contemplated that all sub-divisions of work when completed will form heating, air conditioning, and ventilation system for this project.

1.06 DRAWINGS

A. The Drawings for the Heating, Ventilating and Air Conditioning for this job are diagrammatic. The Contractor shall make his own measurements at the site and in the buildings during construction and install the systems as the work progresses in such a manner that the equipment, piping, conduit, panels, and ductwork will fit into the finished space provided maintaining headroom and maintenance accessibility; and be neatly installed.

B. Contractor shall provide all fittings and accessories as necessary for a complete installation, whether or not specifically mentioned or shown.

1.07 FOUNDATIONS

A. The Contractor shall furnish all special foundations and supports for air devices and ductwork which he installs.

1.08 SAFETY PROVISIONS

A. Contractor shall be required at all times to perform his work in strict accordance with the Williams-Steiger Occupational Health and Safety Act of 1970.

1.09 NOISE AND VIBRATION

A. This Contractor shall be held responsible for elimination of all noises or vibrations transmitted to occupied areas from air devices and ductwork which he may install. This applies particularly to airborne noises in ductwork.

1.10 PAINTING

A. Any air device finish that is damaged or chipped, shall be spot painted to match existing surface. Any rusty or corroded finishes shall be thoroughly cleaned and painted two coats of paint - one prime and one finish coat.

1.11 TESTS AND GUARANTEES

A. After completion of his work, and when the building is ready for occupancy, this Contractor shall operate the air conditioning or heating system for a period of two days. During the tests, the Contractor shall adjust outlets, etc.

B. The Contractor shall repeat operational sequence during heating and/or cooling season, whichever had not been subject to prior test period.

1.12 SHOP DRAWINGS

A. Materials and equipment schedules shall be submitted (at least one hard copy) as soon as practicable but not later than thirty (30) days after the date of award of contract, and before commencement of installation of any material or equipment. A complete schedule of the material and equipment proposed for installation shall be submitted for approval. The schedule shall include catalogs, cuts, diagrams, drawings, specifications and such other descriptive data as may be required by the Engineer. All materials required to be submitted for approval under this section shall be submitted at one time. Partial submittals will not be considered. They will be returned as "not approved".

B. Shop drawings shall be submitted for approval on the following items of equipment: Subject drawings shall include all data pertinent to the performance and installation of all equipment.

Wall Mounted Electric Unit Heaters
Ductless Mini Split Heat Pump
Ductwork
Grilles, Registers, & Diffusers
Exhaust Fans
Insulation

1.13 QUALITY OF MATERIALS AND EQUIPMENT

A. It is not the intent of these specifications to limit material and/or equipment selections to one manufacturer; however, the Engineer reserves the right to be the final and sole judge with regard to equals.

B. Approvals of equipment is based on capacities, equality of workmanship and components, or general and special construction features. Approval of equipment does not relieve the Contractor of coordination responsibility with other trades.

1.14 SUBMITTALS

A. Product Data: Submit manufacturer's latest published product data for all materials for approval. See Section 15100.

1.15 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver distribution devices in individual wrappings to prevent damage to finish surface of device. Store in a dry, protected area until installed. After installation of devices, clean soiled finishes.

PART 2 – PRODUCTS

2.01 SHEETMETAL DUCTWORK

A. Ductwork – Low Pressure:

1. This part of the specification shall apply to all low pressure rectangular shop fabricated ductwork for constant air volume air distribution systems and return air systems. Ductwork shall be constructed of galvanized steel sheets, furnished and installed in sizes as indicated and located where shown on the drawings. This part of the work shall include all ductwork, manual dampers, access panels, louvers, etc., with all accessories to make a complete air distribution system. Noise, vibration or drumming of air in ductwork, noises at air outlets or returns, excessive air leaks, malfunctioning of dampers, etc., will be cause for rejecting affected parts of the ductwork. Duct sizes shown on plans are net and must be increased for total insulation thicknesses as herein specified.
2. The Mechanical Contractor shall coordinate with the General Contractor all ductwork penetrations of walls which require lintels.
3. The following weights of materials, types of joints and bracing shall be followed for sheetmetal ductwork.

Steel U.S. Std. Gauge	Maximum Size Inches	Type of Transverse Joint Conn.	Bracing
24	up to 12	S-Drive, pocket or bar clips on 7"-10" centers	None
24	13 to 24	S-Drive, pocket or bar clips on 7"-10" centers	None
24	25 to 30	A-Drive, pocket or bar clips on 7"-10" centers	1 x 1 x ⅛" angle
20	30 and greater	S-Drive, pocket or bar clips on 7"-10" centers	1 x 1 x ⅛" angle

4. The following details of duct construction shall be adhered to without deviation:
   a. Longitudinal seams for metal shall be Pittsburgh lock.
   b. Sweep elbows shall be made with inside radius equal to width of ducts, except as shown on the drawings. Square elbows must be provided with approved turning vanes to assure good air flow to outlets.
   c. Provide vanes at all elbows. Provide splitter dampers and turning vanes at duct tees.
   d. Horizontal ducts shall be hung at intervals not exceeding 8'-0" with 18-gauge galvanized iron hangers extending the full height of the duct. The only exception shall be for double wall ductwork in the Gymnasium. Truss spans are 9’6” and duct shall be reinforced to suspend this distance without sagging.
   e. Shop drawings of all ductwork when for any reason different from drawings shall be submitted to the Architect for approval.
   f. All ductwork shall be fabricated in strict accordance with SMACNA Construction Standards for Low Velocity Ductwork. All seams shall be caulked or taped to prevent air leakage.

2.02 INSULATIONS

A. General: All insulation work shall be done by workmen thoroughly competent in this trade and employed by a full-time insulation contractor. Failure to finish work neatly, failure to vapor proof joints, ragged edges, failure to cover all fittings, valves, dents on surface, etc., shall be proper cause to reject this work. This Contractor shall call same to the attention of the Architect before such work has progressed beyond the point of economical correction.

B. All material used shall be new and of first line quality and shall be as recommended by the manufacturer for the service intended. All insulation materials, including sealer material, adhesive, finishes, etc., shall be non-combustible. Complete installation shall be in accordance with manufacturer's requirements.

C. This Contractor shall be responsible for the removal from the site of all excess materials, cartons, scrap, etc. He shall protect equipment installed by others, cleaning such equipment should mortar, plaster, adhesive, etc., fall on same.

D. The following service shall be insulated with the listed thickness of materials:

SERVICE	INSULATION MATERIAL	THICKNESS	FINISH
Single Wall Spiral Round, Flat Oval, and *Rectangular Ductwork	1 lb. density blanket type fiberglass duct Minimum R=6.0	2"	Reinforced aluminum foil

* Rectangular Duct includes all supply, return, exhaust, transfer and outside air duct.

E. All Armaflex insulation shall be slipped over piping with all joints sealed with an approved mastic.

F. All insulation shall be installed as per material manufacturer's printed instructions. All valves, fittings, strainers, Pete's plugs, etc., shall be insulated with molded fittings of same material as piping and plastic fitting covers installed over all fittings. Insulation shall be Owens-Corning Fiberglass, or approved equal, as scheduled above. All materials, jackets, adhesives, etc., shall meet smoke developed ratings and fire classifications of UL.

G. Insulation subcontractor shall submit complete product data brochures on insulation materials, jackets, finishes, mastics, cements, etc., for approval along with complete installation brochures for all materials used on this project. Installation methods shall be in accordance with printed instructions from material manufacturers.

H. It shall be the responsibility of the insulating subcontractor to coordinate hanger locations and prevent crushing or breaking finishes.

I. All insulation materials, jackets, adhesives, coatings, etc., shall meet the Underwriters' Laboratories fire hazard classification (UL 723), for flame spread rating of 25, smoke developed rating of 50, and fuel contributed rating of 50.

J. Interior lined rectangular supply ductwork from air handling units shall be wrapped with 1 LB density insulation from point of unit connection to point of exterior duct wrap. Insulation shall be attached with mechanical stick pin fasteners in addition to cement.

K. Pipe insulation shall have tightly butted joints, taped seams to cover the entire system, including air vents.

L. Contractor has the option to use FSK tape at joints on wrap insulation in lieu of mastic.

2.03 DRAIN CONNECTIONS

A. Provide drain connection with P-trap of appropriate depth for system operating pressure for the packaged air conditioning units. Drain piping shall be Type 'L' copper or Schedule 40 PVC pipe with drainage pattern fittings and cement mastic joints. Slope piping at ¼" per foot to point of disposal on grade.

2.04 FANS

A. All fans shall bear the AMCA Seal of Approval and shall be currently listed in the AMCA Directory.

B. Ceiling/cabinet type exhaust fans shall have 1/2" thick acoustical lined steel housing, direct drive centrifugal fan, back-draft damper, and integral aluminum ceiling grille. Plastic grilles will not be acceptable. Fans shall be designed for ceiling mounting with factory fabricated collar for termination where indicated. Fans shall have capacities as scheduled on drawings and shall be controlled as indicated. Provide speed control switches for all direct drive fans. Fans shall be provided with plug-in type disconnect switch. Include step-down transformer where required for proper power connections. Ceiling mounted fans shall be equal to Greenheck SP model.

C. Acceptable manufacturers shall be ACME, Greenheck, Loren Cook, Twin City, and Penn.

2.05 GRILLES, REGISTERS, & DIFFUSERS

A. Return and transfer/pressure relief grilles shall be equal to Titus Model 50F. Grilles shall be of aluminum construction with a 1/2"x1/2"x1/2" aluminum grid. Grille shall have a 90% free area (minimum). Provide with opposed blade damper (except for transfer/pressure relief). Border shall have countersunk screw holes for a neat appearance. Sizes shall be as indicated on plans. Finish shall be off-white color.

B. Acceptable manufacturers shall be Titus, Carnes, Metal-Aire, Price, Nailor, or approved equal.

2.06 SPLIT SYSTEM AIR CONDITIONING UNIT (Ductless Type Unit)

A. The heat pump system shall be mini-split type. The system shall consist of a compact ceiling mounted indoor fan coil section and a slim silhouette horizontal discharge outdoor unit which shall be of an inverter driven heat pump design.

B. Units shall be tested by a Nationally Recognized Testing Laboratory and shall bear the ETL label. All wiring shall be in accordance with the NEC. Units shall be rated in accordance with AHRI 240 and bear the AHRI Certification label. The units shall be manufactured in an ISO 9001 and 14001 facility.

C. A dry holding charge shall be provided from the factory for the indoor section before shipment. Unit shall be stored and handled according to the manufacturer’s recommendations.

D. The unit shall have a manufacturer's parts and defects warranty for a period of five (5) years from date of installation. The compressor shall have a seven (7) year warranty from the same date of installation. Warranty does not include labor.

E. System performance shall meet the scheduled capacities and efficiencies.

F. The indoor unit shall be factory assembled, wired, and run tested and include all factory wiring, piping, control circuit board, fan, and fan motor. The unit shall have a self diagnostic function, 3-minute time delay, and an auto restart function after a power interruption. Indoor unit cabinet shall have a smooth front and white finish with multi-directional and refrigerant piping connections. The indoor unit shall have a separate metal installation plate to secure to the wall. Indoor unit fan shall be direct driven via a single motor. Fan shall be statically and dynamically balanced and have permanently lubricated bearings. Airflow direction shall be adjusted with manually adjustable guide vanes. Fan shall have multiple speed settings. Indoor unit sound level shall not exceed 33 dBA at Low airflow setting. The airflow shall be filtered with an easily removable, washable, pleated type filter. The coil shall be of non-ferrous construction with smooth plate fins on copper tubing. Tubing shall have inner grooves for heat exchange. All tube joints shall be brazed with phoscopper or silver alloy. Coils shall be pressure tested at the factory. Provide with a sloped, corrosion resistant drain pan under the coil. Indoor unit shall have a drain pan level switch to shut unit down prior to condensate overflow. Electrical power shall be for 208-230V, single phase and be directly powered from the outdoor unit. Indoor unit shall be controlled by a wall mounted thermostat.

G. The outdoor unit shall be specifically designed to work with the indoor unit(s). Outdoor unit shall have a thermally fused powder coat finish and be completely factory assembled, piped, and wired. Unit shall be run tested at the factory. Outdoor unit cabinet shall be of galvanized steel construction, bonderized, and finished with an electrostatically applied, thermally fused acrylic or polyester powder coating for corrosion protection. Assembly hardware shall be cadmium plated for weather resistance. Unit shall have two steel mounting feet with four(4) slotted mounting holes. Assembly shall withstand lateral wind loads up to 155 MPH. The outdoor fan shall be direct driven, propeller type. Fan shall have permanently lubricated bearings and be mounted for quiet operation. Unit shall have a raised guard to prevent contact with moving fan parts. Outdoor unit shall have horizontal discharge airflow. Unit shall not exceed 54 dBA in cooling mode. Outdoor coil shall be of non-ferrous construction with either lanced or corrugated plate fins on copper tubing. Refrigerant from outdoor unit shall be regulated with an electronically controlled expansion valve. Refrigerant type shall be R-410A. Unit shall be pre-charged for 25 feet of piping. All refrigerant lines shall be of annealed copper tubing, individually insulated with closed cell insulation. Refrigerant connections between indoor and outdoor units shall be flare type. The compressor shall be hermetic type, inverter driven, variable speed type. Compressor motor shall be direct current type equipped with a factory supplied and installed inverter drive package. Unit shall be equipped with an accumulator. Compressor shall have thermal overload protection and be mounted so as to avoid vibration transmission. Electrical power shall be for 208-230V, single phase.

H. Acceptable manufacturers shall be Mitsubishi, Daikin, LG, or approved equal.

2.07 WALL MOUNTED ELECTRIC HEATER

A. Contractor shall provide and install heavy duty fan-forced wall heater where shown on plans and of capacities as indicated. Heater shall have spiral finned metal sheathed elements. Spiral fins shall be brazed to sheath to insure proper heat transfer. Safety protection shall be provided by an automatic reset wired in heater circuit to deenergize element and motor circuit in case of an over temperature condition. Heater fan and motor shall be sized to deliver at least 210 CFM to insure proper heat circulation. Motor shall be totally enclosed and permanently lubricated. Motor circuit shall have fan delay to insure heated air delivery when heater comes on and to dissipate heat when heater turns off. Heater shall have built-in thermostat and disconnect switch with either tamper proof control knobs or exposed control knobs as listed on schedule. Heater shall have fan only mode switch for summer air circulation. Heater grill and frame shall be constructed of heavy gauge die-formed steel bonderized and painted with a heavy coat of industrial grade baked enamel. Wall heater shall be UL listed and shall be installed in accordance with manufacturer s instructions and with all National and Local Electrical Codes. Heavy duty wall heater shall be by Markel - Series 3400.

2.08 LOUVERS

A. Louvers shall be stationary type. Furnish and install louvers as hereinafter specified where shown on plans. Louvers shall be "Stationary Drainable" type with a drain gutter in each blade and down spots in jambs and mullions. Stationary drainable blades shall be contained within a single 6" frame.

B. Louver components (heads, jambs, sills, blades, and mullions) shall be factory assembled by the louver sections to provide overall sizes required.

C. Construction shall be of extruded aluminum alloy as follows:

Frame:	.125" wall thickness
Blades:	.125" wall thickness at 372E angle on approximately 4 1/2" centers
Screen:	3/4" x .051" expanded flattened aluminum in removable frame.
Wind Loads:	Basic Wind Speed: 135 mph(60 m/s) Importance Factor: 1.15. Exposure Category: B.

D. Submittals - Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of louver assembly.

1. Wind-Borne Debris B Impact Resistance Performance: Notice of Acceptance from Miami-Dade Building Code Compliance Office or Certification of Compliance from other testing laboratories approved by the State of Florida under the Florida Building code.

E. Quality Assurance - Louver units indicated for exterior locations shall be designed to comply with the requirements of the High-Velocity Hurricane Zone of the 2017 Florida Building Code. Notice of Acceptance from Miami-Dade Building Code compliance Office or certification from other testing laboratories approved by the State of Florida under the Florida Building Code shall be provided for review

F. Aluminum Finishes - High-Performance Organic Finish: 3-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

1. Color and Gloss: As selected by Architect from manufacturer's full range.

G. Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance & Water Penetration must be submitted for approval. Provide birdscreen and flanged frame. Provide baked enamel finish with color as selected by Architect. Louvers shall be Ruskin Model ELF 6375DXD or equal by American Warming, Arrow United Industries, Dowco, Greenheck, Industrial Louvers, Louvers and Dampers, or Nailor-Hart.

H. Motorized dampers shall be low leakage type dampers similar to Ruskin – Model CD-50.

PART 3 – EXECUTION

3.01 TESTING OF PIPING SYSTEMS

A. General: Contractor shall notify Architect/Engineer of tests twenty-four hours in advance. All tests shall be witnessed by the Architect/Engineer or his representative. Contractor shall provide a minimum 6" dial pressure gauge to indicate all test pressures and the scale shall be not more than 0 to 160 psi and 1 psi graduations. Test shall be held for a minimum of five (5) hours with no apparent loss of pressure.

B. The following systems shall be tested at pressures indicated:

Drain piping 10 psi

C. All tests shall be verified by a test record maintained on the site and witnessed by the signature of inspector.

D. Any portion of system failing to pass test shall be retested until proven acceptable.

3.02 GUARANTEE

A. The Contractor shall guarantee, in writing, the entire system when completed to be free from any and all defects and shall guarantee the entire system, controls and other equipment against defective materials and workmanship for a period of one (1) year from date of completion and acceptance.

B. Upon receipt of notice from the Owner of the failure or any part of the guaranteed equipment during the guarantee period, the affected part or parts shall be promptly repaired or replaced with new parts by and at the expense of the Contractor.

C. Under the guarantee clause, the Contractor shall include free routine maintenance for a period of one (1) year from the date of final acceptance. At the end of one year of operation, the Contractor and mechanical subcontractor shall inspect and repair any problems which may exist. Contractor shall lubricate bearings, adjust or replace belts, replace filters, and provide all necessary preventative and corrective maintenance required. Contractor shall provide Engineer with a table identifying each air handling unit model and serial number, quantity and size of filters, filter manufacturer and efficiency, belt manufacturer and size, motor HP, frame, and power supply.

END OF SECTION

PLACEHOLDER
FOR CARDSTOCK SECTION DIVISION TAB
TO BE LABELED,
“PART C”

SECTION 33100 PLAYGROUND PROTECTIVE SURFACING

PART 1 GENERAL

1.1 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM C136	(2006) Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM D1557	(2012) Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3) (2700 kN-m/m3}
ASTM D2047	(2011) Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
ASTM D412	(2006a; E 2008; R 2008) Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
ASTM D6112	(2010) Compressive and flexural Creep and Creep-Rupture of Plastic Lumber and Shapes
ASTM D648	(2007) Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
ASTM E1912	(1998; R 2004) Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases
ASTM F1292	(2009) Impact Attenuation of Surface Systems Under and Around Playground Equipment
ASTM F 1487	(2011) Playground Equipment for Public Use

CONSUMER PRODUCT SAFETY COMMISSION (CPSC)

CPSC Pub No 325 (1997) Handbook for Public Playground Safety

1.2 DEFINITIONS

A. Critical Height
   1. The fall height at which the protective surfacing meets the requirements of ASTM F1292.

B. Designated Play Surface
   1. Any elevated surface for standing, walking, sitting, or climbing; or a flat surface a minimum 2 inches wide having up to a maximum 30-degree angle from horizontal. In some play events the platform surface will be the same as the designated play surface. However, the terms should not be interchanged as they do not define the same point of measurement according to ASTM FI487.

C. Head Injury Criteria (HIC)
   1. A measure of impact severity that considers the duration over which the most critical section of the deceleration pulse persists as well as the peak level of that deceleration. Head impact injuries are not believed to be life threatening if the HIC does not exceed a value of 1,000.

D. Impact Attenuation
   1. The ability of protective surfacing to reduce and dissipate the energy of an impacting body.

E. Loose Fill
   1. Consisting of small independent movable components such as sand, gravel, or wood chip. The percent of fine material in the loose fill affects its compression properties from rainfall.

F. Maximum Equipment Height
   1. The highest point on the equipment (i.e.: roof ridge, top of support pole.)

G. Play Event
   1. A piece of manufactured playground equipment that supports one or more play activities.

1.3 CHILD SAFETY AND ACCESSIBILITY STANDARDS

A. CHILD SAFETY
   1. Synthetic surfacing and loose-fill surfacing systems installed in the use zones shall meet or exceed the impact attenuating performance requirements as follows. The surfacing critical height value shall yield up to both a maximum 200 G's peak deceleration, and a maximum 1,000 Head Injury Criteria (HIC) value for a head-first fall from the play event in accordance with CPSC Pub No 325 and ASTM F1292. The protective surfacing should have a minimum critical height value equal to the height of the highest designated play surface. Measuring fall heights for play events is defined in paragraph FALL HEIGHT.

Sand, gravel, and wood products shall not be installed over a concrete or bituminous subsurface per CPSC Pub No 325.

2. Manufacturer's Qualification
    i. Name of the owner or user; service or preventive maintenance provider; date of the installation; point of contact and telephone number; and address for 10 sites.
3. Wood
    i. Wood components obtained from managed forests.
4. Site Preparation
    i. Playground equipment and site furnishings installed.
5. Temperature Limitation
    i. Temperature limitation for applying adhesive.
6. Wood By-Products
    i. Composition, source; particle size; free from toxic chemicals; poisonous plant material; protrusions; or hazardous material.
7. Wood Treatment
    i. Wood treatment chemical content, toxicity level, and life-cycle durability.
8. Adhesive
    i. EPA registered uses, toxicity levels, and application hazards.
9. Color
    i. Two color charts displaying surfacing colors, color granule percentages and finishes.

SD-04 Samples

Synthetic Surfacing Loose Fill Surfacing

a. Synthetic Surfacing: A minimum 12 by 12 inch sample.
b. Loose Fill Surfacing: A minimum 0.125 cu. ft sample.

SD-06 Test Reports

Percolation Test

a. A certified report of inspection, test method used and compliance with recognized test standard shall be described.

Recycled Plastic

a. Individual component and assembled unit structural integrity test; creep tolerance; deflection tolerance; and vertical load test results. The estimated percentage of recovered material content in the material and components. Life-cycle durability.

Synthetic Surfacing

a. Chemical composition, color granule percentage, and test results to which material has been subjected; identifying each material and component containing recycled materials and showing the estimated percentage of recovered material content. Freezing temperature life-cycle durability.

Sand
Gravel

a. Sieve test results. Sand shall be uniformly graded.

SD-07 Certificates

Materials
a. Prior to the delivery of materials, certificates of compliance attesting that materials meet the specified requirements. Certified copies of the material certificates shall include composition and tests to which the material has been subjected.

Manufacturer's Qualification
a. Certificate of Insurance AA rated for a minimum one million dollars.

Manufacturer's Representative
a. The individual's name, company name and address, and playground safety training certificate.

Installer's Qualification
a. The installer's company name and address, and training and experience certification.

Substitution
a. Technical representative's written approval.

Child Safety and Accessibility Evaluation
a. Record of measurements and findings by the certified playground safety inspector. Verification that installed protective surfacing meets manufacturer's recommendations and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.

SD-10 Operation and Maintenance Data
Maintenance Instruction
a. Two bound copies of manufacturer's operation and maintenance manuals. The Contractor shall include manufacturer supplied spare parts.

1.4 DELIVERY, STORAGE, AND HANDLING

A. A delivery schedule shall be provided at least 10 calendar days prior to the first day of delivery. Protective surfacing material shall be delivered, handled, and stored in accordance with the manufacturer's recommendations. The storage area shall be as designated. The materials shall be stored in a dry, covered area until installed.

1.5 INSPECTION

A. Protective surfacing material shall be inspected upon arrival at the job site for meeting specified quality. Unacceptable materials shall be removed from the job site.

1.6 MANUFACTURER'S QUALIFICATION

A. Protective surfacing should have been installed in a minimum 10 sites and been in successful service for a minimum 5-year calendar period. The manufacturer shall provide a Certificate of Insurance AA rated for a minimum one million dollars covering both product and general liability.

1.7 INSTALLER'S QUALIFICATION

A. The installer shall be certified by the manufacturer for training and experience installing the protective surfacing.

1.8 WARRANTY

A. Furnished protective surfacing shall have a minimum 1-year calendar period warranty from Date of Substantial Completion.

1.9 MANUFACTURER'S REPRESENTATIVE

A. The manufacturer's certified playground safety inspector or the manufacturer's designated certified playground safety representative shall supervise the installation and adjustment of the protective surfacing to verify the installation meets the requirements of the manufacturer, this specification, and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.

PART 2 PRODUCTS

2.1 MATERIALS

A. Materials shall be the standard products of a manufacturer regularly engaged in the manufacture of protective surfacing and shall be similar to surfacing in satisfactory use a minimum 5-year calendar period. Protective surfacing consists of two systems; synthetic surfacing and loose fill surfacing.

2.2 SYNTHETIC SURFACING

A. Synthetic surfacing includes the following: poured-in-place system; tile system; and combination system. The synthetic surfacing consists of either impact attenuating substrate covered by a wear surface bonded to produce a unified system; a shredded rubber or aggregate substrate covered by a polyethylene plastic woven sheet wear surface; or a uniform material manufactured in such a way that the top portion meets the requirements specified for wear surface.
   1. Subbase
      a. The subbase for synthetic surfacing may be either concrete, aggregate, or bituminous material.
      b. Concrete Subbase
         i. The substrate shall be compatible with the wear surface, and shall consist of modular units; poured-in-place; or loose fill. Recycled materials shall conform to EPA requirements.
   2. Impact Attenuating Substrate
      a. Poured-In-Place Substrate
         i. Poured-in-place substrate shall consist of a 100 percent recycled shredded styrene butadiene rubber (SBR) adhered with a 100 percent solid polyurethane binder to form a resilient, porous material or shredded rubber. Strands of SBR may vary from a minimum 1/50 inch to a maximum 2/25 inch thickness; by a minimum 1/8 inch to a maximum 4/5 inch length. Binder shall be between a minimum 12 percent and a maximum 16 percent of the total weight of the mixture of rubber and urethane; and shall provide 100 percent coating of the particles. Foam rubber will not

be accepted in the substrate.

b. Loose Fill Substrate
    i. The loose fill substrate shall consist of 100 percent recycled shredded rubber produced from recycled vehicle tires without non-steel belts. Loose-fill strands may vary from a minimum 1/8 inch to a maximum 1/4 inch thickness; a minimum 1/8 inch to a maximum 1/2 inch width; and a minimum 1/2 inch to a maximum 2 inch length.

3. Wear Surface
    a. Wear surfaces consist of the following: a poured-in-place durable, weather-resistant, ultraviolet stable, water permeable material top-coat; an integral component of a tile system; synthetic turf wear surface; rubber sheet wear surface; or a polyethylene woven plastic sheet wear surface. The wear surface shall meet requirements of ASTM D2C47 for a minimum 0.8 coefficient of friction.
    b. Poured-in-Place Wear Surface
        i. Poured-in-place wear surface shall consist of ethylene propylene diene monomer (EPDM) particles adhered with a polyurethane binder formulated to produce an even, uniform surface. Particles of EPDM shall meet ASTM 0412 for tensile strength and elongation, and contain a minimum 25 percent of rubber hydrocarbons. Particles of EPDM shall be peroxide or sulfur cured in accordance with the manufacturer. Size of rubber particles shall be between a minimum 1/32 inch, and a maximum 1/8 inch diameter. Binder shall be between a minimum 16 percent and a maximum 21 percent total weight of rubber used in the wear surface, and shall provide 100 percent coating of the particles. Wear surface shall be a minimum 3/8 inch thick. The wear surface shall be porous.
4. Color
    a. The color shall be as indicated on the drawings. An EPDM wear surface is preferred for color retention. Black or the following dark colored SBR wear surfaces retain heat and are not acceptable: color combinations containing more than 10 percent black; or color combinations averaging more than 10 percent dark colors.
5. Sealant
    a. Sealant for tile or combined protective surface systems shall be compatible with the protective surfacing, and shall match the color of the wear surface.
6. Hardware
    a. Hardware, anchors or fasteners shall be corrosion resistant stainless steel or galvanized steel to anchor the surfacing system securely, in accordance with manufacturer's instructions. Hardware shall provide or be recessed to provide a flat surface and shall be covered by the required depth of protective surfacing.
7. Binder
    a. Binder for synthetic surfacing shall be nontoxic, weather-resistant, ultraviolet stable, non-hardening, and retaining impact-attenuating performance. It shall be 100 percent solids containing polyurethane, methylene diphenel isocyanate (MDI), or as recommended by the

manufacturer. A maximum 2 percent of toluene diphenel isocyanate (TOI) shall be used. Weight of polyurethane shall be between a minimum 8.5 lbs/gal and a maximum 9.5 lbs/gal. Coloring pigments shall be inorganic oxides.

8. Adhesive
    a. Adhesive shall be a two component polyurethane providing extremely high impact resistant bond and shall be installed as reconunended by the manufacturer. The adhesive shall be non-toxic, resistant to ultraviolet light, and safe for children.
9. Transition Edge
    a. The transition edge shall be designed to maintain the protective surfacing performance, support the surfacing between changes of material, and shall be concrete in accordance with paragraph CONCRETE CURB. The face of the edge to the subgrade shall be covered with the impact attenuating surface and meet the requirements of paragraph CHILD SAFETY.
10. Combination System
    a. Combination systems shall consist of combined protective surfacing materials specified. Each component is a part of a manufactured surfacing system. Wear surface shall be of the materials specified.

2.3 LOOSE-FILL SURFACING

A. Loose-fill surfacing installed in the use zone shall consist of sand, gravel or wood by-products.

1. Sand
    a. Sand shall be uniformly graded, washed, free of dust, clay, dirt, hazardous substances, or foreign objects. Sand particles shall be rounded naturally or by mechanical means and sieved in accordance with ASTM C136 to be in the following gradation range.

SIEVE SIZE	PERCENT PASSING
#8	100 percent
#16	80-100 percent
#30	40 - 75 percent
#50	0-25 percent
#100	less than 2 percent

2. Gravel
    a. Gravel shall be washed, free of dust, clay, dirt, hazardous substances or foreign objects. Gravel particles shall be rounded naturally or by mechanical means and sieved in accordance with ASTM Cl36 to be in the following gradation range.

SIEVE SIZE	PERCENT PASSING
1/2 inch	100 percent
3/8 inch	75-85 percent

3. Wood By-Products

a. Wood by-products include wood mulch and engineered wood fiber. Wood by-products shall be free of sharp or foreign objects or toxic chemicals. Wood by-products manufactured from recycled pallets or lumber containing nails or metal fasteners shall be rejected.
    i. Wood Mulch
        1. Wood mulch shall be untreated chipped bark and/or untreated chipped tree pruning a maximum 1-1/2 inches long and shall be free of twigs, leaves, branches, thorns, dirt, grass, yard clippings, soil, or poisonous plants.
    ii. Engineered Wood Fiber
        1. Engineered wood fiber manufactured for the purpose of protective surfacing shall consist of particles varying from a minimum 1/8-inch-wide to a maximum 1/2 inch thick; and a minimum 1 inch wide to a maximum 3 inches long.

2.4 GEOTEXTILE FABRIC

A. Geotextile fabric consists of the following: nonwoven polypropylene sheet; nonwoven 100 percent polyester sheet; or nonwoven needle punched polyester sheet composed of recycled polyester resins.

2.5 HIGH DENSITY POLYETHYLENE

A. The material shall be molded of ultraviolet (UV) and color stabilized polyethylene; and consist of a minimum 75% plastic profile of high-density polyethylene, low-density polyethylene, and polypropylene raw material. The material shall be non-toxic and have no discernible contaminates such as paper, foil, or wood. The material shall contain a maximum 3 percent air voids. The material shall be free of splinters, chips, peels, buckling, and cracks. Material shall be resistant to deformation from solar heat gain. Material shall have factory-drilled holes. Components with extra holes not filled by hardware or covered by other components shall be rejected. The material shall not be painted.
    1. Structural Component
        a. Recycled plastic materials will not be used as load bearing structural members.
    2. Recycled Plastic Molded As Lumber
        a. The component shall deflect a maximum 1/360 of the span of the frame when exposed to a uniform live load of 40 lbs/ft, ASTM D648. The product shall meet the structural integrity test requirements set forth in ASTM F1487 and ASTM D6112.

2.6 CURBS

A. Concrete Curb
    1. Concrete curbs shall conform to Section 03000 Cast-in-Place Concrete.

2.7 APPROVED MANUFACTURER'S

A. Game Time – GT Impax
150 Playcore Drive SE
Fort Payne, Alabama 35967

Representative: John Kilpatrick – 205-368-9279

B. Approved Equal.

PART 3 EXECUTION

3.1 SITE PREPARATION

A. Finished Grade and Underground Utilities
1. The Contractor shall verify that finished grades are as indicated; the smooth grading has been completed in accordance with Section 02300 EARTHWORK and installation of the underground utilities through the area has been completed in accordance with Section 02300 EARTHWORK. The location of underground utilities and facilities in the area of the operation shall be verified. Damage to underground utilities and facilities shall be repaired at the Contractor's expense.

C. Layout
1. The layout of the entire use zone perimeter shall be staked before excavation begins. The location of all elements shall be staked to include the following: All play event configuration access and egress points; and use zone perimeters.
i. Use Zone
1. The use zone is defined as the area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around equipment; and on whose surface it is predicted that a user would land when falling from or exiting the equipment. Also, the use zone is associated with the following terms; "Clear Area," and "Fall Zone". The use zone shall be free of hard surfaces, objects or obstacles that a child could run into or fall on top of and be injured. Use zone perimeters shall not overlap hard surfaces. The use zone perimeter shall meet or exceed the requirements of paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS. Use zone perimeters shall not overlap except for certain play events as defined in ASTM Fl487.
ii. Shop Drawings
1. When the use zone perimeter and play event configuration conflict with the requirements and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS, shop drawings defining corrective measures shall be submitted to include the following: Adjustment to the play event with the use zone perimeter; use zone perimeter overlaps; fall height and critical height value.

D. Obstructions Below Ground
1. When obstructions below ground affect the work, shop drawings showing proposed adjustments shall be provided.

E. Percolation Test
1. A test for percolation shall be done to determine positive drainage, to include the lowest elevation of the subgrade in the areas containing the following: sand; gravel; wood by-products; or synthetic surfacing installed over a pervious base. A positive percolation shall consist of a minimum 1 inch per 3 hour period.

When a negative percolation test occurs, a shop drawing shall be provided to indicate the corrective measures.

F. Substitution
   1. Under no circumstances are substitutions to be allowed or protective surfacing to be selected without written approval from the technical representative. Evaluate manufacturer substitutions for the critical height value with meeting the site conditions and paragraph FALL HEIGHT.

G. Subgrade
   1. Subgrade irregularities shall be corrected to ensure the required depth of protective surfacing is provided. The subgrade elevation shall be as required by the manufacturer.

H. Subsurface
   1. The subsurface shall be installed in a true, even plane, and sloped to provide positive drainage as indicated.

I. Subbase
   1. Tolerance of the concrete or bituminous subbase shall be within a maximum 1/4 inch in 10 feet. Tolerance of aggregate subbase shall be within a maximum similar to 1/4 inch in 10 feet. Aggregate subbase shall be compacted to a maximum 95 percent, ASTM D1557. The compaction shall be completed in accordance with Section 02300 EARTHWORK. Sand, gravel, and wood products shall not be installed over a concrete, aggregate, or bituminous subbase, per paragraph CHILD SAFETY.

J. Concrete or Bituminous Curing
   1. Bituminous or concrete subbase shall be cured a minimum of 7 days. Curing compounds and other deleterious substances that adversely affect adhesion shall be removed. Surface shall be clean and dry.

K. Fall Height
   1. General Requirements
      i. The fall height is defined as the vertical distance between the finished elevation of the designated play surface and the finished elevation of the protective surfacing beneath it. For some play events the fall height and platform height are the same, while for other play events the fall height and maximum equipment height are the same, Section 11 68 13 PLAYGROUND EQUIPMENT. When the furnished play event fall height varies from the play event shown, shop drawings shall be provided defining the revised depth or type of protective surfacing to meet or exceed the requirements of paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.
   2. Measuring Fall Height

EQUIPMENT MEASURING FALL HEIGHT

Composite Equipment Structure:	For a platform surrounded by protective barriers, measure from the platform finished elevation. For a platform surrounded by guardrails, measure from the guardrail top elevation.
Infant Crawl Area:	A maximum 24 inch height, measured from the crawl wall or

	barrier finished elevation.
Playhouse, Nonclimbable:	Measure from the designated play surface finished elevation.
Stationary Equipment, Climbable:	Measure from the maximum equipment height finished elevation.
Stationary Equipment, Nonclimbable:	Measure from the designated play surface finished elevation.

3.2 INSTALLING SYNTHETIC SURFACING SYSTEM

A. Surfacing edges shall fully adhere to the subsurface. Fully cover the subsurface to ensure no hard surfaces are exposed through displacement of loose fill. Rolled or beveled containment curb or transition edges shall maintain the full thickness required to meet paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS. Material shall cover foundation and cutouts around elements penetrating the surface. Seams shall be the minimum necessary and shall be tight.
   1. Temperature Limitation
      a. Temperature limitation for applying adhesive shall be provided.
   2. Poured-in-Place System
      a. Components of the poured-in-place system shall be mixed mechanically on site in accordance with manufacturer's recommendations. Hand-mixing is prohibited. Installation of poured-in-place surfacing shall be seamless and completely bonded to subsurface. Material shall cover foundations and shall be tight around elements penetrating the surface. Add a minimum 1/16 inch depth to the required surfacing depth to ensure the full depth of material is installed to meet paragraph CHILD SAFETY.
      b. Geotextile Fabric for Poured-In-Place
         i. Geotextile fabric shall be installed over a compacted aggregate base as indicated. Fabric shall cover the entire area and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations. The aggregate base shall be free of ruts or protruding objects. The fabric shall be installed smooth; and free of tensile stresses, folds, and wrinkles. The fabric shall be protected from clogging, tears, or other damage. Damaged fabric shall be repaired or replaced as directed.
      c. Poured-in-Place Substrate
         i. The substrate layer of the poured-in-place system shall be installed in one continuous pour on the same day. When a second pour is required, the edge of the previous work shall be fully coated with polyurethane binder to ensure 100 percent bond with new work. Adhesive shall be applied in small quantities so that new substrate can be placed before the adhesive dries.
      d. Poured-in-Place Wear Surface
         i. Wear surface shall be bonded to substrate. Adhesive shall be applied to substrate in small quantities so that wear surface can

be applied before adhesive dries. Surface shall be hand troweled to a smooth, even finish. When wear surface is composed of different color patterns, pour shall be continuous and seamless. When seams are required due to color change or field conditions, the adjacent wear surface shall be placed as soon as possible, before initial pour has cured. The edge of initial pour shall be coated with adhesive and wear surface mixture shall be immediately applied.

3. Combination System
    a. The combination system shall consist of modular impact attenuating substrate units, adhered to form a unified system. The substrate shall be covered with a wear surface as specified. Cutouts around equipment shall be properly filled and sealed according to manufacturer's instructions to eliminate voids. Sealant shall be the minimum amount necessary, shall not exceed a maximum 3/8 inch width. Where excessive voids occur at cutouts, the modular substrate shall be removed and refitted. Construction methods shall be employed to ensure full depth installation of specified surfacing material and the finished wear surface.
    b. Geotextile Fabric for Combination System
        i. Geotextile fabric shall be installed where a modular or shredded rubber substrate is installed over an aggregate base. It should be installed with poured-in-place wear surface or polyethylene plastic woven sheet wear surface installed over substrate. Fabric shall cover the entire area to receive the tile system and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations.
    c. Modular Substrate for Combination System
        i. Modular substrate shall be laid out to minimize small end pieces. The substrate shall be installed in accordance with manufacturer's instructions.
    d. Poured-in-Place Substrate for Combination System
        i. Same as paragraph POURED-IN-PLACE SYSTEM.
    e. Synthetic Turf Wear Surface for Combination System
        i. Wear surface shall be bonded to substrate with 100 percent solids polyurethane adhesive. Surface irregularities and wrinkles shall be corrected. Seams shall be secured in accordance with manufacturer's recommendations. Wear surface roll width shall be as wide as practical for the installation.
    f. Rubber Sheet Wear Surface for Combination System
        i. Wear surface shall be bonded to substrate with 100 percent solids polyurethane adhesive. Surface irregularities and wrinkles shall be corrected. Seams shall be secured in accordance with manufacturer's recommendations. Wear surface roll width shall be as wide as practical for the installation.
    g. Poured-in-Place Wear Surface for Combination System
        i. Same as paragraph POURED-IN-PLACE SYSTEM.
    h. Polyethylene Plastic Woven Sheet Wear Surface for Combination System
        i. Wear surface shall be securely anchored to a perimeter containment material with hardware in accordance with the manufacturer's instructions. Hardware shall be appropriate for the

type of system and secured to eliminate protrusions.

3.3 INSTALLING LOOSE FILL SURFACING SYTEM

A. Sand Surfacing System
   1. Sand shall be installed over a compacted subgrade at a minimum 18 inches depth throughout the use zone. The finished elevation of sand shall be determined after sand has been settled by saturating with water and percolating. The sand depth in high play activity areas shall be as indicated. Sand shall meet the requirements of paragraph CHILD SAFETY.

B. Gravel Surfacing System
   1. Gravel shall be installed over a compacted subgrade at a minimum 12 inch depth throughout the use zone. The depth of gravel in high play activity areas shall be as indicated. Gravel shall meet the requirements of paragraph CHILD SAFETY.

C. Wood By-Product Surfacing System
   1. Engineered wood fiber protective surfacing shall be installed according to manufacturer's instructions. Wood products shall meet the requirements of paragraph CHILD SAFETY.
   2. Geotextile Fabric for Wood By-Product
      a. Geotextile fabric shall cover the entire area and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations. Folds, wrinkles, or loose fabric shall be smoothed. Fabric shall be protected from damage during wood product placement.

3.4 RESTORATION AND CLEAN UP

A. When the operation has been completed, the Contractor shall clean up and protect the site. Existing areas that have been damaged from the operation shall be restored to original condition at the Contractor's expense.
   1. Clean Up
      a. The site and play events shall be cleaned of all materials associated with the operation. Play events and surfaces shall be cleaned of dirt, stains, filings, and other blemishes occurring from shipment and installation. Cleaning methods and agents shall be as recommended by the manufacturer.
   2. Protection
      a. The area shall be protected as required or directed by providing barricades and signage.
   3. Disposal of Materials
      a. Excess and waste material shall be removed and disposed of off Government property.

3.5 PROTECTIVE SURFACING ACCEPTANCE

A. Child Safety and Accessibility Evaluation

1. When the protective surfacing is installed, the play events and protective surfacing shall be thoroughly inspected and measured to verify the playground meets manufacturer's recommendations, paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS, and paragraph FALL HEIGHT as follows: 1) secure anchoring; 2) all hardware and connectors are tight and below the wear surface; 3) sharp points, edges, and protrusions; 4) entanglement; and 5) pinch, crush, and shear points. Measure use zone distances to determine the area is free of hard surfaces, objects or obstacles. Determine exceptions to use zone overlaps occur in accordance with ASTM FI487. Measure play event fall height and compare to critical height value for the thickness of installed synthetic surfacing. Measure play event fall height and depth of loose fill protective surfacing. Ensure installed chopped tire material is free from steel belts. Ensure the slide exit region has the required clear zone. Swing seat clearances are measured while occupied by a maximum user for the age group using the equipment. The finished installation shall have the appearance of a single covering. Protective surfacing that does not comply shall be reinstalled. Hardware that does not comply shall be replaced. Ensure positive drainage for the area and the lowest elevation of protective surfacing subgrade has been provided. A written report describing the results of the evaluation shall be provided.

B. Spare Parts

1. Protective surfacing spare parts provided by the manufacturer shall be furnished.

C. Maintenance Instruction

1. The manufacturer's operation and maintenance manual describing the recommended preventive maintenance, inspection frequency and techniques, periodic adjustments, lubricants, and cleaning requirements shall be furnished.

3.6 RE-INSTALLATION

A. When re-installation is required, the following shall be accomplished. Re-install the product as specified. Provide new replacement materials supplied by the manufacturer (material acquisition of replacement parts is the responsibility of the Contractor). Damage caused by the failed installation shall be repaired at the Contractor's expense.

END OF SECTION 04200

SECTION 02361 TERMITE CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Treatment with Termiticide for subterranean termite control.

1.02 SUBMITTALS

A. Product Data: For each type of termite control product.

1. Include the EPA-Registered Label for termiticide products.

B. Qualification Data: For qualified Installer.

C. Product Certificates: For termite control products, from manufacturer.

D. Soil Treatment Application Report: After application of termiticide is completed, submit report for Owner's records and include the following:

1. Date and time of application.
2. Moisture content of soil before application.
3. Termiticide brand name and manufacturer.
4. Quantity of undiluted termiticide used.
5. Dilutions, methods, volumes used, and rates of application.
6. Areas of application.
7. Water source for application.

E. Warranties: Sample of special warranties prior to application for Architect’s approval.

1.03 QUALITY ASSURANCE.

A. Installer Qualifications: Engage a professional pest control operator, licensed by the State of Alabama, and in accordance with regulations of governing authorities for application of soil treatment solution. The pest control operator is to have the aforementioned valid license, the company technician is to have a valid identification card for pest control, and the company vehicle is to be clearly marked with the company name.

B. Regulatory Requirements: Formulate and apply termiticides and termiticide devices according to the EPA-Registered Label.

C. Comply with Alabama Regulations Governing Pest Control Operators in following the labels of the termiticide.

D. Source Limitations: Obtain termite control products from single source from single manufacturer.

1.04 PROJECT CONDITIONS

A. Environmental Limitations: To ensure penetration, do not treat soil that is water saturated or frozen. Do not treat soil while precipitation is occurring. Comply with requirements of the EPA-Registered Label and requirements of authorities having jurisdiction.

B. Coordinate soil treatment application with excavating, filling, grading, and concreting operations. Treat soil under footings, grade beams, and ground-supported slabs before construction.

1.05 WARRANTY

A. Soil Treatment Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor, certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites, including Formosan termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation without cost to the Owner.

1. Warranty Period: Five years from date of Substantial Completion signed by the applicator and the Contractor.

1.06 MAINTENANCE SERVICE

A. Continuing Service: Beginning at Substantial Completion, provide 5 years continuing service including monitoring, inspection, and re-treatment for occurrences of termite activity. Provide a standard continuing service agreement. State services, obligations, conditions, terms for agreement period, and terms for future renewal options.

PART 2 - PRODUCTS

2.01 SOIL TREATMENT

A. Termiticide: Provide an EPA-Registered termiticide, complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Corporation, Agricultural Products; Termidor.
   b. Bayer Environmental Science; Premise 75.
   c. FMC Corporation, Agricultural Products Group; Talstar or Prevail.
   d. Syngenta; Demon TC
2. Service Life of Treatment: Soil treatment termiticide that is effective for not less than five years against infestation of subterranean termites.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for moisture content of soil per termiticide label requirements, interfaces with earthwork, slab and foundation work, landscaping, utility installation, and other conditions affecting performance of termite control.

B. Proceed with application only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's written instructions for preparation before beginning application of termite control treatment. Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree roots, stakes, formwork, and construction waste wood from soil within and around foundations.

B. Soil Treatment Preparation: Remove foreign matter and impermeable soil materials that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.

1. Fit filling hose connected to water source at the site with a backflow preventer, complying with requirements of authorities having jurisdiction.

3.03 APPLICATION, GENERAL

A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's EPA-Registered Label for products.

1. Apply soil treatment solution, USING COLOR DYE marking agent to insure the area is evenly treated.

3.04 APPLYING SOIL TREATMENT

A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.

1. Slabs-on-Grade Slabs: Underground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete slabs are placed.

2. Foundations: Adjacent soil, including soil along the entire inside perimeter of foundation walls; along both sides of interior partition walls; around plumbing pipes and electric conduit penetrating the slab; around interior column footers, piers, and chimney bases; and along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
3. Masonry: Treat voids.
4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.

B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.

C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.

D. Post warning signs in areas of application.

E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

END OF SECTION

SECTION 04200 UNIT MASONRY

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Concrete masonry units and brick veneer

B. Related Sections: N/A

1.02 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include instructions for handling, storage, installation, cleaning, and protection of each.

B. Shop Drawings: For reinforcing steel. Detail bending and placement of unit masonry reinforcing bars .Comply with ACI 315, "Details and Detailing of Concrete Reinforcement." Show elevations of reinforced walls.

C. Samples: For each type of exposed masonry unit.

1.03 INFORMATIONAL SUBMITTALS

A. Material Certificates: For each type and size of product indicated. For masonry units include data on material properties and material test reports substantiating compliance with requirements.

B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91 for air content.
2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.

1.04 QUALITY ASSURANCE

A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6 unless modified by requirements in the Contract Documents.

B. Sample Panels: Build sample panels to verify selections made under sample submittals and to demonstrate aesthetic effects.

1. Build sample panels for typical exterior wall in sizes approximately 48 inches long by 40 inches high by full thickness.
2. Obtain Architect's acceptance of visual qualities of the mock-up before start of masonry work.
3. Retain mock-up during construction as a standard for judging completed masonry work.

4. Do not alter, move or destroy mock-up until Work is completed. Provide mock-up panel for each type of exposed unit masonry work.

1.05 PROJECT CONDITIONS

A. Protect partially completed masonry against weather, when Work is not in progress, by covering top of walls with strong, waterproof, non-staining membrane. Extend membrane a minimum of 18 inches down both sides of walls and anchor securely in place to prevent water intrusion.

B. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

C. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.01 CONCRETE UNIT MASONRY

A. Equivalent products by the following manufacturers are acceptable:

1. Block USA, Inc., Gulf Coast Region Tel. (800) 888-9262.
2. Or Approved Equal

B. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

C. Concrete Lintels: ASTM C 1623, matching CMUs in color, texture, and density classification; and with reinforcing bars indicated. Provide lintels with net-area compressive strength not less than CMUs.

2.02 BRICK VENEER

A. Brick veneer to match the that installed on the monument sign installed in Phase 1 of Hackmeyer Park Improvements. Equivalent products by the following manufacturers are acceptable:

1. Block USA, Inc., Gulf Coast Region Tel. (800) 888-9262.
2. Or Approved Equal

B. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.03 BRICK PAVERS

A. Brick pavers to match the that installed around the monument sign installed in Phase 1 of Hackmeyer Park Improvements. Equivalent products by the following manufacturers are acceptable:

1. Block USA, Inc., Gulf Coast Region Tel. (800) 888-9262.
2. Or Approved Equal

B. Substitutions that fully meet or exceed the specified requirements may be considered under provisions of Section 01635 - Substitution Procedures.

2.04 CONCRETE UNITS MASONRY AND SPLITFACE UNIT, GENERAL

A. Obtain masonry units from one manufacturer, of uniform texture and color for each kind required, for each continuous area and visually related areas.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects will be exposed in the completed Work.

C. Fire-Resistance Ratings: Where indicated, provide units that comply with requirements for fire-resistance ratings indicated as determined by testing according to ASTM E 119, by equivalent masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

D. Manufacturer's standard units with integral water-repellent agent DRY-BLOCK at exterior units. The nominal face dimensions shall be l6 inches long by 8 inches high (l5-5/8 inches by 7-5/8 inches actual), unless otherwise shown. Provide special shapes where shown and where required for lintels, corners, jambs, sash, control joints, headers, bonding and other special conditions. Widths as indicated on Drawings.

E. Hollow Load-Bearing: Provide units complying with ASTM, C 90. Provide normal weight units using ASTM C 33l aggregate for a dry net weight of not less than l25 lbs. per cubic foot.

F. Classification: Curing shall comply with ASTM C 90, Type II, Nonmoisture-Controlled Units.

G. Exposed Face: Provide manufacturer's standard color and texture, unless otherwise indicated.

H. Shapes: Provide shapes indicated and for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.

I. Integral Water Repellent (Exterior Units): Provide units made with liquid polymeric, integral water repellent admixture that does not reduce flexural bond strength for exposed units.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. ACM Chemistries, Inc.; RainBloc.
   b. BASF MastetrPel 240.
   c. Grace Construction Products, W. R. Grace & Co. - Conn.; (Basis-of-Design) Dry-Block.

J. CMUs: ASTM C 90.

1. Density Classification: Normal weight unless otherwise indicated.

2.05 CONCRETE AND MASONRY LINTELS

A. General: Unless indicated otherwise, provide one of the following:

2.06 MORTAR AND GROUT MATERIALS

A. Mortar mixes shall comply with the requirements of ASTM C 270 Standard Specification for Mortar for Unit Masonry. Type S mortar shall be used for exterior Work and shall contain integral water repellent agent DRY-BLOCK. Type S mortar shall be used for interior Work. Mortar color shall be Manufacturer's standard color.

B. Approver Products:

1. Manufacturer: Argos and its affiliated companies.
2. Cement: Magnolia® Masonry Cement Type S.

C. Portland Cement: ASTM C 150, Type I, except Type III may be used for cold-weather construction. Provide natural color.

D. Hydrated Lime: ASTM C 207, Type S.

E. Sand: ASTM C l44, except for joints less than l/4 inches, use aggregate graded with 70 to l00 percent passing the No. 16 sieve.

F. Aggregate for Mortar: ASTM C 144.

1. For joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.
2. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.

G. Aggregate for Grout: ASTM C 404.

H. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. BASF: MasterPel 240MA
   b. Euclid Chemical Company (The); Accelguard 80.
   c. Grace Construction Products, W. R. Grace & Co. - Conn.; Morset..

I. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs, containing integral water repellent by same manufacturer.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. ACM Chemistries, Inc.; RainBloc for Mortar.

b. BASF: MasterPel 240
c. Grace Construction Products, W. R. Grace & Co. - Conn.;
d. (Basis-of- Design) Dry-Block Mortar Admixture.

J. Water: Potable.

2.07 REINFORCEMENT

A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.

B. Masonry Joint Reinforcement, General: ASTM A 951/A 951M.

1. Interior Walls: Mill- galvanized, carbon steel.
2. Exterior Walls: Hot-dip galvanized, carbon steel.
3. Wire Size for Side Rods: 0.148-inch diameter.
4. Wire Size for Cross Rods: 0.148-inch diameter.
5. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches o.c.
6. Provide in lengths of not less than 10 feet, with prefabricated corner and tee units.

2.08 TIES AND ANCHORS

A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated.

1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M; with ASTM A 153/A 153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.

C. Partition Top anchors: 0.105-inch- thick metal plate with 3/8-inch- diameter metal rod 6 inches long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel, hot-dip galvanized after fabrication.

D.

E. Rigid Anchors: Fabricate from steel bars 1-1/2 inches wide by 1/4 inch thick by 24 inches long, with ends turned up 2 inches or with cross pins unless otherwise indicated.

1. Corrosion Protection: Hot-dip galvanized to comply with ASTM A 153/A 153M

F. Anchor Bolts: Headed or L-shaped steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers; hot-dip galvanized to comply with ASTM A 153/A 153M, Class C; of dimensions indicated.

2.09 EMBEDDED FLASHING MATERIALS

A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:

1. Metal Drip Edge: Fabricate from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.

B. Single-Wythe CMU Flashing System: System of CMU cell flashing pans and interlocking CMU web covers made from high-density polyethylene incorporating chemical stabilizers that prevent UV degradation. Cell flashing pans have integral weep spouts that are designed to be built into mortar bed joints and weep collected moisture to the exterior of CMU walls and that extend into the cell to prevent clogging with mortar.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Mortar Net USA, Ltd.; Blok-Flash.

C. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

2.10 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from neoprene or urethane.

B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.

C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed

3.02 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation do not vary by more than plus 1/2 inch or minus 1/4 inch.
2. For location of elements in plan do not vary from that indicated by more than plus or minus 1/2 inch.
3. For location of elements in elevation do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls do not vary from level by more than 1/4 inch in 10 feet, or 1/2 inch maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
5. For lines and surfaces do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
2. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
3. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch.

3.03 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch horizontal face dimensions at corners or jambs.

C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

D. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

E. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.

F. Fill cores in hollow CMUs with grout 24 inches under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.04 MORTAR BEDDING AND JOINTING

A. Lay hollow CMUs as follows:

1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
2. With webs fully bedded in mortar in all courses of piers, columns, and pilasters.
3. With webs fully bedded in mortar in grouted masonry, including starting course on footings.

4. With entire units, including areas under cells, fully bedded in mortar at starting course on footings where cells are not grouted.

B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

D. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.05 MASONRY JOINT REINFORCEMENT

A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.

1. Space reinforcement not more than 16 inches on center.
2. Space reinforcement not more than 8 inches on center in foundation walls and parapet walls.
3. Provide reinforcement not more than 8 inches above and below wall openings and extending 12 inches beyond openings in addition to continuous reinforcement.

B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.

C. Provide continuity at wall intersections by using prefabricated T-shaped units.

D. Provide continuity at corners by using prefabricated L-shaped units.

3.06 CONTROL AND EXPANSION JOINTS

A. Provide vertical expansion, control and isolation joints in masonry. Build-in related masonry accessory items as the masonry work progresses. Rake out mortar in preparation for application of caulking and sealants.

B. Control Joint Spacing: If location of control joints is not shown, place vertical joints spaced not to exceed 25'-0" on center. Locate control joints at points of natural weakness in the masonry work.

C.

D.

E.

3.07 FLASHING

A. General: Install embedded flashing in masonry at lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.

B. Install single-wythe CMU flashing system in bed joints of CMU walls where indicated to comply with manufacturer's written instructions. Install CMU cell pans with upturned edges located below face shells and webs of CMUs above and with weep spouts aligned with face of wall. Install CMU web covers so that they cover upturned edges of CMU cell pans at CMU webs and extend from face shell to face shell.

3.08 REINFORCED UNIT MASONRY INSTALLATION

A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.

1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.

B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.

C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.

1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Limit height of vertical grout pours to not more than 60 inches.

D. Testing Prior to Construction: One set of tests.

E. Testing Frequency: One set of tests for each 5000 sq. ft. of wall area or portion thereof.

F. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.

G. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C 780.

3.09 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged or if units do not match adjoining units as intended. Provide new units to match units and install with fresh mortar or grout, pointed to eliminate evidence of replacement

B. Pointing: During the tooling of joints, enlarge any voids or holes, except weep holes, and completely fill with mortar. Point up all joints at corners, openings and adjacent work to provide a neat uniform appearance, properly prepared for application of caulking or sealant compounds.

C.

D. Good workmanship and job housekeeping practices shall be used to minimize the need for cleaning the masonry. Clean exposed masonry by dry brushing at the end of each day's work and after final pointing to remove mortar spots and droppings. Protect the base of the wall from mud splashes and mortar droppings. Should additional cleaning be required apply chemical (muriatic acid is NOT acceptable) or detergent cleaning solutions in accordance with the masonry and chemical manufacturers' recommendations.

E. Remove temporary coverings and protection of adjacent work areas. Remove construction debris from the site and legally dispose of debris.

3.10 MASONRY WASTE DISPOSAL

A. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Do not dispose of masonry waste as fill within 18 inches of finished grade.

B. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION

SECTION 06100 ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

Section Includes:

1. Framing with dimension lumber
Wood blocking and nailers.
Wood sleepers.
Plywood backing panels.
Exposed plywood.

1.02 DEFINITIONS

A. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.

B. Lumber grading agencies, and the abbreviations used to reference them, include the following:

1. SPIB: The Southern Pine Inspection Bureau.
2. WWPA: Western Wood Products Association.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
3. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.04 INFORMATIONAL SUBMITTALS

A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

B. Evaluation Reports: For the following, from ICC-ES:

1. Wood-preservative-treated wood.
2. Shear panels.
3. Power-driven fasteners.
4. Powder-actuated fasteners.
5. Expansion anchors.

1.05 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.01 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
3. Comply with structural notes as indicated on Drawings.

B. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal thickness or less, 19 percent for more than 2-inch nominal thickness unless otherwise indicated.

2.02 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat all rough carpentry unless otherwise indicated.

2.03 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.
2. Nailers.

B. For items of dimension lumber size, provide Construction or No. 2 grade lumber and any of the following species:

1. Mixed southern pine; SPIB.
2. Spruce-pine-fir (south); NeLMA, WCLIB, or WWPA.

C. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:

1. Mixed southern pine; No. 2 grade; SPIB.
2. Western woods; Construction or No. 2 Common grade; WCLIB or WWPA.

D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.04 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: DOC PS 1, Exterior, AC fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.05 EXPOSED PLYWOOD

A. Where plywood will be exposed to view, provide 1/2 inch unless otherwise specified or shown on Drawings. Unless specifically stated otherwise, all exposed plywood shall be painted or stained from standard colors as selected by Architect.

2.06 PLYWOOD ATTIC ACCESS FLOOR

B. Attic equipment access decking: DOC PS 1, Exterior, AC fire-retardant treated, in thickness indicated or, if not indicated, not less than 5/8-inch nominal thickness.

2.07 PLYWOOD ROOF SHEATHING

A. Refer to Structural Drawings.

2.08 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.

B. Power-Driven Fasteners: NES NER-272.

1. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry assemblies and equal to four times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
2. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.

C. Stainless-Steel Sheet: ASTM A 666, Type 304.

1. Use for exterior locations and where indicated.

2.09 MISCELLANEOUS MATERIALS

A. Adhesives for Gluing Sleepers to Concrete: Formulation complying with ASTM D 3498 that is approved for use indicated by adhesive manufacturer.

1. Adhesives shall have a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

B. Install plywood backing panels by fastening to CMU; coordinate locations with utilities requiring backing panels. Install fire-retardant treated plywood backing panels with classification marking of testing agency exposed to view.

C. Do not splice structural members between supports unless otherwise indicated.

D. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Comply with structural notes as indicated on Drawings.

E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

1. Use inorganic boron for items that are continuously protected from liquid water.
2. Use copper naphthenate for items not continuously protected from liquid water.

F. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

3.02 WOOD SLEEPER, BLOCKING, AND NAILER INSTALLATION

A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

C. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

3.03 ROOF SHEATHING

A. Place panels perpendicular to framing members with ends staggered and sheet ends over firm bearing.

B. Install sheathing clips between adjacent sheets between roof framing members.

C. Leave 1/8 inch expansion space at panel ends and edges.

D. Secure to supports as indicated on structural Drawings.

3.04 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes wet or sufficiently wet that moisture content exceeds that specified, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION

SECTION 07920 JOINT SEALANTS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Furnishing and installation of sealants.

1.02 ACTION SUBMITTALS

A. Product Data: For each joint-sealant product indicated.

B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

D. Joint-Sealant Schedule: Include the following information:

1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

1.03 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.

B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.

C. Field-Adhesion Test Reports: For each sealant application tested.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved by the Manufacturer for installation of units required for this Project.

B. Source Limitations: For each Joint-Sealant Application listed in PART 3 obtain each kind of joint sealant from single source from single manufacturer.

1.05 PROJECT CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (5 deg C).
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Joint Sealants:

1. Products: Subject to compliance with requirements, provide one of the products listed.
2. Manufacturers: Where no product is listed, subject to compliance with requirements, provide products from one of the following manufacturers:
   a. BSAF
   b. Dow
   c. Pecora Corporation.
   d. Sika Corporation, Construction Products Division.
   e. Tremco Incorporated.

C. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.

D. Stain-Test-Response Characteristics: Where sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.

E. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.02 SILICONE JOINT SEALANTS

A. Mildew-Resistant, Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Pecora Corporation; 898.

2.03 URETHANE JOINT SEALANTS

A. Single-Component, Nonsag, Urethane Joint Sealant: ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. Trimco Incorporated; Dymonic FC.

B. Single-Component, Nonsag, Traffic-Grade, Urethane Joint Sealant: ASTM C 920. Type S, Grade NS, Class 25, for Use T.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a. BASF Building Systems; Sonolastic NP1.

C. Single-Component, Pourable, Traffic-Grade, Urethane Joint Sealant: ASTM C 920, Type S, Grade P, Class 25, for Use T.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Building Systems; Sonolastic SL 1.
   b. Bostik Inc.; Chem-Calk 950.
   c. Pecora Corporation; Urexpan NR-201.

2.04 LATEX JOINT SEALANTS

A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BASF Building Systems; Sonolac.
   b. Bostik Inc.; Chem-Calk 600.
   c. Pecora Corporation; AC-20+.

2.05 JOINT SEALANT BACKING

A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C 1330, of type approved in writing by the joint-sealant manufacturer for the joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.06 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way and formulated to promote optimum adhesion of sealants to joint substrates.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:

1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.

2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
   a. Concrete.
   b. Masonry.
3. Remove laitance and form-release agents from concrete.
4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
   a. Metal.
   b. Glass.
   c. Glazed surfaces of ceramic tile.

B. Joint Priming: Prime all other joint substrates where recommended by joint-sealant manufacturer. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.03 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

1. Do not leave gaps between ends of sealant backings.
2. Do not stretch, twist, puncture, or tear sealant backings.
3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

1. Remove excess sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.

3.04 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:

1. Extent of Testing: Test completed and cured sealant joints as follows:
   a. Perform 10 tests for the first 1000 feet of joint length for each kind of sealant and joint substrate.
   b. Perform 1 test for each 1000 feet of joint length thereafter.
2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
   a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
3. Inspect tested joints and report on the following:
   a. Whether sealants filled joint cavities and are free of voids.
   b. Whether sealant dimensions and configurations comply with specified requirements.
   c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion passes sealant manufacturer's field-adhesion hand-pull test criteria.
4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant fill, sealant configuration, and sealant dimensions.
5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.05 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.06 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.07 JOINT-SEALANT SCHEDULE

A. General: When more than one type of sealant is listed for a Joint-Sealant Application provide one of the sealants listed.

B. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces EHT-1.

1. Joint Locations:
   a. Isolation and contraction joints in cast-in-place concrete slabs.
   b. Other joints as indicated.
2. Urethane Joint Sealant: Single component, pourable, traffic grade.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

C. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces EV-1.

1. Joint Locations:
   a. Construction joints in cast-in-place concrete.
   b. Control and expansion joints in unit masonry.
   c. Joints between different materials listed above.
   d. Perimeter joints between materials listed above and frames of doors, windows, and louvers.
2. Urethane Joint Sealant: Single component, nonsag, Class 100/50.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

D. Joint-Sealant Application: Interior joints in horizontal traffic surfaces IHT-1.

1. Joint Locations:
   a. Isolation joints in cast-in-place concrete slabs.
2. Urethane Joint Sealant: Single component, pourable, traffic grade.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

E. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces IV-1.

1. Joint Locations:
   a. Isolation joints in cast-in-place concrete slabs.
   b. Perimeter joints of exterior openings where indicated.
   c. Vertical joints on exposed surfaces of interior unit masonry, concrete walls and partitions.
   d. Perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances.
2. Joint Sealant: Latex.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

F. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces I-PF-1.

1. Joint Locations:
   a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
2. Joint Sealant: Mildew resistant, single component, nonsag, neutral curing, Silicone.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION

SECTION 09000 PLAYGROUND PROTECTIVE SURFACING

PART 1 GENERAL

1.1 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM C136	(2006) Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM D1557	(2012) Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3) (2700 kN-m/m3}
ASTM D2047	(2011) Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
ASTM D412	(2006a; E 2008; R 2008) Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
ASTM D6112	(2010) Compressive and flexural Creep and Creep-Rupture of Plastic Lumber and Shapes
ASTM D648	(2007) Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
ASTM E1912	(1998; R 2004) Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases
ASTM F1292	(2009) Impact Attenuation of Surface Systems Under and Around Playground Equipment
ASTM F 1487	(2011) Playground Equipment for Public Use

CONSUMER PRODUCT SAFETY COMMISSION (CPSC)

CPSC Pub No 325 (1997) Handbook for Public Playground Safety

1.2 DEFINITIONS

A. Critical Height
   1. The fall height at which the protective surfacing meets the requirements of ASTM F1292.

B. Designated Play Surface
   1. Any elevated surface for standing, walking, sitting, or climbing; or a flat surface a minimum 2 inches wide having up to a maximum 30-degree angle from horizontal. In some play events the platform surface will be the same as the designated play surface. However, the terms should not be interchanged as they do not define the same point of measurement according to ASTM FI487.

C. Head Injury Criteria (HIC)
   1. A measure of impact severity that considers the duration over which the most critical section of the deceleration pulse persists as well as the peak level of that deceleration. Head impact injuries are not believed to be life threatening if the HIC does not exceed a value of 1,000.

D. Impact Attenuation
   1. The ability of protective surfacing to reduce and dissipate the energy of an impacting body.

E. Loose Fill
   1. Consisting of small independent movable components such as sand, gravel, or wood chip. The percent of fine material in the loose fill affects its compression properties from rainfall.

F. Maximum Equipment Height
   1. The highest point on the equipment (i.e.: roof ridge, top of support pole.)

G. Play Event
   1. A piece of manufactured playground equipment that supports one or more play activities.

1.3 CHILD SAFETY AND ACCESSIBILITY STANDARDS

A. CHILD SAFETY
   1. Synthetic surfacing and loose-fill surfacing systems installed in the use zones shall meet or exceed the impact attenuating performance requirements as follows. The surfacing critical height value shall yield up to both a maximum 200 G's peak deceleration, and a maximum 1,000 Head Injury Criteria (HIC) value for a head-first fall from the play event in accordance with CPSC Pub No 325 and ASTM F1292. The protective surfacing should have a minimum critical height value equal to the height of the highest designated play surface. Measuring fall heights for play events is defined in paragraph FALL HEIGHT.

Sand, gravel, and wood products shall not be installed over a concrete or bituminous subsurface per CPSC Pub No 325.

2. Manufacturer's Qualification
    i. Name of the owner or user; service or preventive maintenance provider; date of the installation; point of contact and telephone number; and address for 10 sites.
3. Wood
    i. Wood components obtained from managed forests.
4. Site Preparation
    i. Playground equipment and site furnishings installed.
5. Temperature Limitation
    i. Temperature limitation for applying adhesive.
6. Wood By-Products
    i. Composition, source; particle size; free from toxic chemicals; poisonous plant material; protrusions; or hazardous material.
7. Wood Treatment
    i. Wood treatment chemical content, toxicity level, and life-cycle durability.
8. Adhesive
    i. EPA registered uses, toxicity levels, and application hazards.
9. Color
    i. Two color charts displaying surfacing colors, color granule percentages and finishes.

SD-04 Samples

Synthetic Surfacing Loose Fill Surfacing

a. Synthetic Surfacing: A minimum 12 by 12 inch sample.
b. Loose Fill Surfacing: A minimum 0.125 cu. ft sample.

SD-06 Test Reports

Percolation Test

a. A certified report of inspection, test method used and compliance with recognized test standard shall be described.

Recycled Plastic

a. Individual component and assembled unit structural integrity test; creep tolerance; deflection tolerance; and vertical load test results. The estimated percentage of recovered material content in the material and components. Life-cycle durability.

Synthetic Surfacing

a. Chemical composition, color granule percentage, and test results to which material has been subjected; identifying each material and component containing recycled materials and showing the estimated percentage of recovered material content. Freezing temperature life-cycle durability.

Sand
Gravel

a. Sieve test results. Sand shall be uniformly graded.

SD-07 Certificates

Materials
a. Prior to the delivery of materials, certificates of compliance attesting that materials meet the specified requirements. Certified copies of the material certificates shall include composition and tests to which the material has been subjected.

Manufacturer's Qualification
a. Certificate of Insurance AA rated for a minimum one million dollars.

Manufacturer's Representative
a. The individual's name, company name and address, and playground safety training certificate.

Installer's Qualification
a. The installer's company name and address, and training and experience certification.

Substitution
a. Technical representative's written approval.

Child Safety and Accessibility Evaluation
a. Record of measurements and findings by the certified playground safety inspector. Verification that installed protective surfacing meets manufacturer's recommendations and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.

SD-10 Operation and Maintenance Data
Maintenance Instruction
a. Two bound copies of manufacturer's operation and maintenance manuals. The Contractor shall include manufacturer supplied spare parts.

1.4 DELIVERY, STORAGE, AND HANDLING

A. A delivery schedule shall be provided at least 10 calendar days prior to the first day of delivery. Protective surfacing material shall be delivered, handled, and stored in accordance with the manufacturer's recommendations. The storage area shall be as designated. The materials shall be stored in a dry, covered area until installed.

1.5 INSPECTION

A. Protective surfacing material shall be inspected upon arrival at the job site for meeting specified quality. Unacceptable materials shall be removed from the job site.

1.6 MANUFACTURER'S QUALIFICATION

A. Protective surfacing should have been installed in a minimum 10 sites and been in successful service for a minimum 5-year calendar period. The manufacturer shall provide a Certificate of Insurance AA rated for a minimum one million dollars covering both product and general liability.

1.7 INSTALLER'S QUALIFICATION

A. The installer shall be certified by the manufacturer for training and experience installing the protective surfacing.

1.8 WARRANTY

A. Furnished protective surfacing shall have a minimum 1-year calendar period warranty from Date of Substantial Completion.

1.9 MANUFACTURER'S REPRESENTATIVE

A. The manufacturer's certified playground safety inspector or the manufacturer's designated certified playground safety representative shall supervise the installation and adjustment of the protective surfacing to verify the installation meets the requirements of the manufacturer, this specification, and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.

PART 2 PRODUCTS

2.1 MATERIALS

A. Materials shall be the standard products of a manufacturer regularly engaged in the manufacture of protective surfacing and shall be similar to surfacing in satisfactory use a minimum 5-year calendar period. Protective surfacing consists of two systems; synthetic surfacing and loose fill surfacing.

2.2 SYNTHETIC SURFACING

A. Synthetic surfacing includes the following: poured-in-place system; tile system; and combination system. The synthetic surfacing consists of either impact attenuating substrate covered by a wear surface bonded to produce a unified system; a shredded rubber or aggregate substrate covered by a polyethylene plastic woven sheet wear surface; or a uniform material manufactured in such a way that the top portion meets the requirements specified for wear surface.
   1. Subbase
      a. The subbase for synthetic surfacing may be either concrete, aggregate, or bituminous material.
      b. Concrete Subbase
         i. The substrate shall be compatible with the wear surface, and shall consist of modular units; poured-in-place; or loose fill. Recycled materials shall conform to EPA requirements.
   2. Impact Attenuating Substrate
      a. Poured-In-Place Substrate
         i. Poured-in-place substrate shall consist of a 100 percent recycled shredded styrene butadiene rubber (SBR) adhered with a 100 percent solid polyurethane binder to form a resilient, porous material or shredded rubber. Strands of SBR may vary from a minimum 1/50 inch to a maximum 2/25 inch thickness; by a minimum 1/8 inch to a maximum 4/5 inch length. Binder shall be between a minimum 12 percent and a maximum 16 percent of the total weight of the mixture of rubber and urethane; and shall provide 100 percent coating of the particles. Foam rubber will not

be accepted in the substrate.

b. Loose Fill Substrate
    i. The loose fill substrate shall consist of 100 percent recycled shredded rubber produced from recycled vehicle tires without non-steel belts. Loose-fill strands may vary from a minimum 1/8 inch to a maximum 1/4 inch thickness; a minimum 1/8 inch to a maximum 1/2 inch width; and a minimum 1/2 inch to a maximum 2 inch length.

3. Wear Surface
    a. Wear surfaces consist of the following: a poured-in-place durable, weather-resistant, ultraviolet stable, water permeable material top-coat; an integral component of a tile system; synthetic turf wear surface; rubber sheet wear surface; or a polyethylene woven plastic sheet wear surface. The wear surface shall meet requirements of ASTM D2C47 for a minimum 0.8 coefficient of friction.
    b. Poured-in-Place Wear Surface
        i. Poured-in-place wear surface shall consist of ethylene propylene diene monomer (EPDM) particles adhered with a polyurethane binder formulated to produce an even, uniform surface. Particles of EPDM shall meet ASTM 0412 for tensile strength and elongation, and contain a minimum 25 percent of rubber hydrocarbons. Particles of EPDM shall be peroxide or sulfur cured in accordance with the manufacturer. Size of rubber particles shall be between a minimum 1/32 inch, and a maximum 1/8 inch diameter. Binder shall be between a minimum 16 percent and a maximum 21 percent total weight of rubber used in the wear surface, and shall provide 100 percent coating of the particles. Wear surface shall be a minimum 3/8 inch thick. The wear surface shall be porous.
4. Color
    a. The color shall be as indicated on the drawings. An EPDM wear surface is preferred for color retention. Black or the following dark colored SBR wear surfaces retain heat and are not acceptable: color combinations containing more than 10 percent black; or color combinations averaging more than 10 percent dark colors.
5. Sealant
    a. Sealant for tile or combined protective surface systems shall be compatible with the protective surfacing, and shall match the color of the wear surface.
6. Hardware
    a. Hardware, anchors or fasteners shall be corrosion resistant stainless steel or galvanized steel to anchor the surfacing system securely, in accordance with manufacturer's instructions. Hardware shall provide or be recessed to provide a flat surface and shall be covered by the required depth of protective surfacing.
7. Binder
    a. Binder for synthetic surfacing shall be nontoxic, weather-resistant, ultraviolet stable, non-hardening, and retaining impact-attenuating performance. It shall be 100 percent solids containing polyurethane, methylene diphenel isocyanate (MDI), or as recommended by the

manufacturer. A maximum 2 percent of toluene diphenel isocyanate (TOI) shall be used. Weight of polyurethane shall be between a minimum 8.5 lbs/gal and a maximum 9.5 lbs/gal. Coloring pigments shall be inorganic oxides.

8. Adhesive
    a. Adhesive shall be a two component polyurethane providing extremely high impact resistant bond and shall be installed as reconunended by the manufacturer. The adhesive shall be non-toxic, resistant to ultraviolet light, and safe for children.
9. Transition Edge
    a. The transition edge shall be designed to maintain the protective surfacing performance, support the surfacing between changes of material, and shall be concrete in accordance with paragraph CONCRETE CURB. The face of the edge to the subgrade shall be covered with the impact attenuating surface and meet the requirements of paragraph CHILD SAFETY.
10. Combination System
    a. Combination systems shall consist of combined protective surfacing materials specified. Each component is a part of a manufactured surfacing system. Wear surface shall be of the materials specified.

2.3 LOOSE-FILL SURFACING

A. Loose-fill surfacing installed in the use zone shall consist of sand, gravel or wood by-products.
1. Sand
    a. Sand shall be uniformly graded, washed, free of dust, clay, dirt, hazardous substances, or foreign objects. Sand particles shall be rounded naturally or by mechanical means and sieved in accordance with ASTM C136 to be in the following gradation range.

SIEVE SIZE	PERCENT PASSING
#8	100 percent
#16	80-100 percent
#30	40 - 75 percent
#50	0-25 percent
#100	less than 2 percent

2. Gravel
    a. Gravel shall be washed, free of dust, clay, dirt, hazardous substances or foreign objects. Gravel particles shall be rounded naturally or by mechanical means and sieved in accordance with ASTM Cl36 to be in the following gradation range.

SIEVE SIZE	PERCENT PASSING
1/2 inch	100 percent
3/8 inch	75-85 percent

3. Wood By-Products

a. Wood by-products include wood mulch and engineered wood fiber. Wood by-products shall be free of sharp or foreign objects or toxic chemicals. Wood by-products manufactured from recycled pallets or lumber containing nails or metal fasteners shall be rejected.
    i. Wood Mulch
        1. Wood mulch shall be untreated chipped bark and/or untreated chipped tree pruning a maximum 1-1/2 inches long and shall be free of twigs, leaves, branches, thorns, dirt, grass, yard clippings, soil, or poisonous plants.
    ii. Engineered Wood Fiber
        1. Engineered wood fiber manufactured for the purpose of protective surfacing shall consist of particles varying from a minimum 1/8-inch-wide to a maximum 1/2 inch thick; and a minimum 1 inch wide to a maximum 3 inches long.

2.4 GEOTEXTILE FABRIC

A. Geotextile fabric consists of the following: nonwoven polypropylene sheet; nonwoven 100 percent polyester sheet; or nonwoven needle punched polyester sheet composed of recycled polyester resins.

2.5 HIGH DENSITY POLYETHYLENE

A. The material shall be molded of ultraviolet (UV) and color stabilized polyethylene; and consist of a minimum 75% plastic profile of high-density polyethylene, low-density polyethylene, and polypropylene raw material. The material shall be non-toxic and have no discernible contaminates such as paper, foil, or wood. The material shall contain a maximum 3 percent air voids. The material shall be free of splinters, chips, peels, buckling, and cracks. Material shall be resistant to deformation from solar heat gain. Material shall have factory-drilled holes. Components with extra holes not filled by hardware or covered by other components shall be rejected. The material shall not be painted.
    1. Structural Component
        a. Recycled plastic materials will not be used as load bearing structural members.
    2. Recycled Plastic Molded As Lumber
        a. The component shall deflect a maximum 1/360 of the span of the frame when exposed to a uniform live load of 40 lbs/ft, ASTM D648. The product shall meet the structural integrity test requirements set forth in ASTM F1487 and ASTM D6112.

2.6 CURBS

A. Concrete Curb
    1. Concrete curbs shall conform to Section 03000 Cast-in-Place Concrete.

2.7 APPROVED MANUFACTURER'S

A. Game Time – GT Impax
150 Playcore Drive SE
Fort Payne, Alabama 35967

Representative: John Kilpatrick – 205-368-9279

B. Approved Equal.

PART 3 EXECUTION

3.1 SITE PREPARATION

A. Finished Grade and Underground Utilities
1. The Contractor shall verify that finished grades are as indicated; the smooth grading has been completed in accordance with Section 02300 EARTHWORK and installation of the underground utilities through the area has been completed in accordance with Section 02300 EARTHWORK. The location of underground utilities and facilities in the area of the operation shall be verified. Damage to underground utilities and facilities shall be repaired at the Contractor's expense.

C. Layout
1. The layout of the entire use zone perimeter shall be staked before excavation begins. The location of all elements shall be staked to include the following: All play event configuration access and egress points; and use zone perimeters.
i. Use Zone
1. The use zone is defined as the area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around equipment; and on whose surface it is predicted that a user would land when falling from or exiting the equipment. Also, the use zone is associated with the following terms; "Clear Area," and "Fall Zone". The use zone shall be free of hard surfaces, objects or obstacles that a child could run into or fall on top of and be injured. Use zone perimeters shall not overlap hard surfaces. The use zone perimeter shall meet or exceed the requirements of paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS. Use zone perimeters shall not overlap except for certain play events as defined in ASTM FI487.
ii. Shop Drawings
1. When the use zone perimeter and play event configuration conflict with the requirements and paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS, shop drawings defining corrective measures shall be submitted to include the following: Adjustment to the play event with the use zone perimeter; use zone perimeter overlaps; fall height and critical height value.

D. Obstructions Below Ground
1. When obstructions below ground affect the work, shop drawings showing proposed adjustments shall be provided.

E. Percolation Test
1. A test for percolation shall be done to determine positive drainage, to include the lowest elevation of the subgrade in the areas containing the following: sand; gravel; wood by-products; or synthetic surfacing installed over a pervious base. A positive percolation shall consist of a minimum 1 inch per 3 hour period.

When a negative percolation test occurs, a shop drawing shall be provided to indicate the corrective measures.

F. Substitution
1. Under no circumstances are substitutions to be allowed or protective surfacing to be selected without written approval from the technical representative. Evaluate manufacturer substitutions for the critical height value with meeting the site conditions and paragraph FALL HEIGHT.

G. Subgrade
1. Subgrade irregularities shall be corrected to ensure the required depth of protective surfacing is provided. The subgrade elevation shall be as required by the manufacturer.

H. Subsurface
1. The subsurface shall be installed in a true, even plane, and sloped to provide positive drainage as indicated.

I. Subbase
1. Tolerance of the concrete or bituminous subbase shall be within a maximum 1/4 inch in 10 feet. Tolerance of aggregate subbase shall be within a maximum similar to 1/4 inch in 10 feet. Aggregate subbase shall be compacted to a maximum 95 percent, ASTM D1557. The compaction shall be completed in accordance with Section 02300 EARTHWORK. Sand, gravel, and wood products shall not be installed over a concrete, aggregate, or bituminous subbase, per paragraph CHILD SAFETY.

J. Concrete or Bituminous Curing
1. Bituminous or concrete subbase shall be cured a minimum of 7 days. Curing compounds and other deleterious substances that adversely affect adhesion shall be removed. Surface shall be clean and dry.

K. Fall Height
1. General Requirements
   i. The fall height is defined as the vertical distance between the finished elevation of the designated play surface and the finished elevation of the protective surfacing beneath it. For some play events the fall height and platform height are the same, while for other play events the fall height and maximum equipment height are the same, Section 11 68 13 PLAYGROUND EQUIPMENT. When the furnished play event fall height varies from the play event shown, shop drawings shall be provided defining the revised depth or type of protective surfacing to meet or exceed the requirements of paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS.
2. Measuring Fall Height

EQUIPMENT MEASURING FALL HEIGHT

Composite Equipment Structure:	For a platform surrounded by protective barriers, measure from the platform finished elevation. For a platform surrounded by guardrails, measure from the guardrail top elevation.
Infant Crawl Area:	A maximum 24 inch height, measured from the crawl wall or

	barrier finished elevation.
Playhouse, Nonclimbable:	Measure from the designated play surface finished elevation.
Stationary Equipment, Climbable:	Measure from the maximum equipment height finished elevation.
Stationary Equipment, Nonclimbable:	Measure from the designated play surface finished elevation.

3.2 INSTALLING SYNTHETIC SURFACING SYSTEM

A. Surfacing edges shall fully adhere to the subsurface. Fully cover the subsurface to ensure no hard surfaces are exposed through displacement of loose fill. Rolled or beveled containment curb or transition edges shall maintain the full thickness required to meet paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS. Material shall cover foundation and cutouts around elements penetrating the surface. Seams shall be the minimum necessary and shall be tight.
   1. Temperature Limitation
      a. Temperature limitation for applying adhesive shall be provided.
   2. Poured-in-Place System
      a. Components of the poured-in-place system shall be mixed mechanically on site in accordance with manufacturer's recommendations. Hand-mixing is prohibited. Installation of poured-in-place surfacing shall be seamless and completely bonded to subsurface. Material shall cover foundations and shall be tight around elements penetrating the surface. Add a minimum 1/16 inch depth to the required surfacing depth to ensure the full depth of material is installed to meet paragraph CHILD SAFETY.
      b. Geotextile Fabric for Poured-In-Place
         i. Geotextile fabric shall be installed over a compacted aggregate base as indicated. Fabric shall cover the entire area and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations. The aggregate base shall be free of ruts or protruding objects. The fabric shall be installed smooth; and free of tensile stresses, folds, and wrinkles. The fabric shall be protected from clogging, tears, or other damage. Damaged fabric shall be repaired or replaced as directed.
      c. Poured-in-Place Substrate
         i. The substrate layer of the poured-in-place system shall be installed in one continuous pour on the same day. When a second pour is required, the edge of the previous work shall be fully coated with polyurethane binder to ensure 100 percent bond with new work. Adhesive shall be applied in small quantities so that new substrate can be placed before the adhesive dries.
      d. Poured-in-Place Wear Surface
         i. Wear surface shall be bonded to substrate. Adhesive shall be applied to substrate in small quantities so that wear surface can

be applied before adhesive dries. Surface shall be hand troweled to a smooth, even finish. When wear surface is composed of different color patterns, pour shall be continuous and seamless. When seams are required due to color change or field conditions, the adjacent wear surface shall be placed as soon as possible, before initial pour has cured. The edge of initial pour shall be coated with adhesive and wear surface mixture shall be immediately applied.

3. Combination System
    a. The combination system shall consist of modular impact attenuating substrate units, adhered to form a unified system. The substrate shall be covered with a wear surface as specified. Cutouts around equipment shall be properly filled and sealed according to manufacturer's instructions to eliminate voids. Sealant shall be the minimum amount necessary, shall not exceed a maximum 3/8 inch width. Where excessive voids occur at cutouts, the modular substrate shall be removed and refitted. Construction methods shall be employed to ensure full depth installation of specified surfacing material and the finished wear surface.
    b. Geotextile Fabric for Combination System
        i. Geotextile fabric shall be installed where a modular or shredded rubber substrate is installed over an aggregate base. It should be installed with poured-in-place wear surface or polyethylene plastic woven sheet wear surface installed over substrate. Fabric shall cover the entire area to receive the tile system and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations.
    c. Modular Substrate for Combination System
        i. Modular substrate shall be laid out to minimize small end pieces. The substrate shall be installed in accordance with manufacturer's instructions.
    d. Poured-in-Place Substrate for Combination System
        i. Same as paragraph POURED-IN-PLACE SYSTEM.
    e. Synthetic Turf Wear Surface for Combination System
        i. Wear surface shall be bonded to substrate with 100 percent solids polyurethane adhesive. Surface irregularities and wrinkles shall be corrected. Seams shall be secured in accordance with manufacturer's recommendations. Wear surface roll width shall be as wide as practical for the installation.
    f. Rubber Sheet Wear Surface for Combination System
        i. Wear surface shall be bonded to substrate with 100 percent solids polyurethane adhesive. Surface irregularities and wrinkles shall be corrected. Seams shall be secured in accordance with manufacturer's recommendations. Wear surface roll width shall be as wide as practical for the installation.
    g. Poured-in-Place Wear Surface for Combination System
        i. Same as paragraph POURED-IN-PLACE SYSTEM.
    h. Polyethylene Plastic Woven Sheet Wear Surface for Combination System
        i. Wear surface shall be securely anchored to a perimeter containment material with hardware in accordance with the manufacturer's instructions. Hardware shall be appropriate for the

type of system and secured to eliminate protrusions.

3.3 INSTALLING LOOSE FILL SURFACING SYTEM

A. Sand Surfacing System
   1. Sand shall be installed over a compacted subgrade at a minimum 18 inches depth throughout the use zone. The finished elevation of sand shall be determined after sand has been settled by saturating with water and percolating. The sand depth in high play activity areas shall be as indicated. Sand shall meet the requirements of paragraph CHILD SAFETY.

B. Gravel Surfacing System
   1. Gravel shall be installed over a compacted subgrade at a minimum 12 inch depth throughout the use zone. The depth of gravel in high play activity areas shall be as indicated. Gravel shall meet the requirements of paragraph CHILD SAFETY.

C. Wood By-Product Surfacing System
   1. Engineered wood fiber protective surfacing shall be installed according to manufacturer's instructions. Wood products shall meet the requirements of paragraph CHILD SAFETY.
   2. Geotextile Fabric for Wood By-Product
      a. Geotextile fabric shall cover the entire area and shall be lapped a minimum 4 inch width at the seams. Seams shall be adhered in accordance with manufacturer's recommendations. Folds, wrinkles, or loose fabric shall be smoothed. Fabric shall be protected from damage during wood product placement.

3.4 RESTORATION AND CLEAN UP

A. When the operation has been completed, the Contractor shall clean up and protect the site. Existing areas that have been damaged from the operation shall be restored to original condition at the Contractor's expense.
   1. Clean Up
      a. The site and play events shall be cleaned of all materials associated with the operation. Play events and surfaces shall be cleaned of dirt, stains, filings, and other blemishes occurring from shipment and installation. Cleaning methods and agents shall be as recommended by the manufacturer.
   2. Protection
      a. The area shall be protected as required or directed by providing barricades and signage.
   3. Disposal of Materials
      a. Excess and waste material shall be removed and disposed of off Government property.

3.5 PROTECTIVE SURFACING ACCEPTANCE

A. Child Safety and Accessibility Evaluation

1. When the protective surfacing is installed, the play events and protective surfacing shall be thoroughly inspected and measured to verify the playground meets manufacturer's recommendations, paragraph CHILD SAFETY AND ACCESSIBILITY STANDARDS, and paragraph FALL HEIGHT as follows: 1) secure anchoring; 2) all hardware and connectors are tight and below the wear surface; 3) sharp points, edges, and protrusions; 4) entanglement; and 5) pinch, crush, and shear points. Measure use zone distances to determine the area is free of hard surfaces, objects or obstacles. Determine exceptions to use zone overlaps occur in accordance with ASTM FI487. Measure play event fall height and compare to critical height value for the thickness of installed synthetic surfacing. Measure play event fall height and depth of loose fill protective surfacing. Ensure installed chopped tire material is free from steel belts. Ensure the slide exit region has the required clear zone. Swing seat clearances are measured while occupied by a maximum user for the age group using the equipment. The finished installation shall have the appearance of a single covering. Protective surfacing that does not comply shall be reinstalled. Hardware that does not comply shall be replaced. Ensure positive drainage for the area and the lowest elevation of protective surfacing subgrade has been provided. A written report describing the results of the evaluation shall be provided.

B. Spare Parts

1. Protective surfacing spare parts provided by the manufacturer shall be furnished.

C. Maintenance Instruction

1. The manufacturer's operation and maintenance manual describing the recommended preventive maintenance, inspection frequency and techniques, periodic adjustments, lubricants, and cleaning requirements shall be furnished.

3.6 RE-INSTALLATION

A. When re-installation is required, the following shall be accomplished. Re-install the product as specified. Provide new replacement materials supplied by the manufacturer (material acquisition of replacement parts is the responsibility of the Contractor). Damage caused by the failed installation shall be repaired at the Contractor's expense.

END OF SECTION 04200

SECTION 10431 SIGNS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Panel signs.
2. Stand-off Letters
3. Signage accessories.

1.02 COORDINATION

A. Coordinate locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.03 SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of sign.

B. Product Schedule: Include plans, elevations, and large-scale sections of typical members and other components. Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation details.

1. Provide message list for each sign, including large-scale details of wording, lettering, artwork, and Braille layout.

C. Samples for Initial Selection: For each type of sign material indicated that involves color selection.

D. Samples for Verification: Include the following Samples to verify color selected and style selections:

1. Panel Signs: Full-size samples.
2. Approved samples will not be returned for installation into Project.

E. Qualification Data: For Installer.

F. Maintenance Data: For signage cleaning and maintenance requirements to include III maintenance manuals.

1.06 QUALITY ASSURANCE

A. An Installer Qualifications: An authorized representative of signage manufacturer for installation and maintenance of units required for this Project.

B. Source Limitations: Obtain each sign type through one source from a single manufacturer.

C. Regulatory Requirements: Comply with the Americans with Disabilities Act (ADA) and with code provisions as adopted by authorities having jurisdiction.

1. Interior Code Signage: Provide signage as required by accessibility regulations and requirements of authorities having jurisdiction. These include, but are not limited to, the following:
   a. Illuminated Exit Signs: Refer to Electrical Drawings.
   b. Room Capacity: See Architectural Drawings.

PART 2 – PRODUCT

2.01 PANEL SIGNS

A. General: Provide panel signs that comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.

B. Basis-of-Design Product: Subject to compliance with requirements, provide Best Sign Systems; Strata and Strata Updateable Signs or a comparable product by one of the following:

1. Andco Industries Corp.
2. APCO Graphics, Inc.
3. ASI Sign Systems, Inc.
4. Innerface Sign Systems, Inc.
5. Mohawk Sign Systems.

C. Cast-Acrylic Sheet: Manufacturer's standard and as follows:

1. Color: As selected by Architect from manufacturer's full range.

D. Plastic Laminate: Provide high-pressure laminate engraving stock with face and core plies as selected by Architect from manufacturer's full range.

E. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of5005-H15.

F. Laminated Panels: Permanently laminate face panels to backing sheets of material; use manufacturer's standard process.

G. Graphic Content and Style: Provide sign copy that complies with requirements indicated in the Sign Schedule and on Drawings for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage.

D. Changeable Message Inserts: Fabricate signs to allow insertion of changeable messages in the form of transparent covers with paper inserts printed by Owner.

1. Furnish paper and software for creating text and symbols for IBM compatible computers for Owner production of paper inserts.
2. Furnish paper cut-to-size for changeable message insert.

E. Tactile and Braille Copy: Manufacturer's standard process for producing copy complying with ADA Accessibility Guidelines and ICC/ANSI AII7.I. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square cut edges free from burrs and cut marks.

1. Panel Material: Opaque acrylic sheet.
2. Raised-Copy Thickness: Not less than 1/32 inch.

F. Engraved Copy: Machine engraves letters, numbers, symbols, and other graphic devices into panel sign on face indicated to produce precisely formed copy, incised to uniform depth.

1. Engraved Plastic Laminate: Engrave through exposed face ply of plastic-laminate sheet to expose contrasting core ply.

G. Applied Copy: Die-cut characters from vinyl film of nominal thickness of 3 mils with pressure sensitive adhesive backing. Apply copy to exposed face of panel sign, glass, doors, and wall surfaces as indicated on Architectural Drawings.

1. Panel Material: Opaque acrylic sheet.

H. Colored Coatings for Acrylic Sheet: For copy and background and frame colors, provide Pantone Matching System (PMS) colored coatings, including inks and paints that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are non-fading for application intended.

2.02 PANEL SIGN TYPES

A. Disk Golf Signs:

1. Material: Exterior Grade, aluminum with coating
2. Character Style: Helvetica.
3. Text: As indicated in the Sign Schedule. Message: N/A.
4. Sizes:
    a. Sign: As indicated on Drawings.
    b. Character: Per sign details in Drawings.

5. Colors:
   a. Character: Per sign details in Drawings.
6. Schedule: See Drawings.

B. Monument Sign Stand-off Letters:

7. Material: Exterior Grade, Cast Aluminum
8. Copy: Tactile and Braille. Character Style: Helvetica.
9. Text: As indicated in the Drawings. Message: N/A.
10. Sizes:
    a. Sign: As indicated on Drawings.
    b. Character: Minimum 6-inch high characters. See Drawings.
11. Colors:
    a. Character: As selected by Architect from manufacturer's full range.
12. Schedule: See Drawings.

2.03 ACCESSORIES

A. Vinyl Film: Provide opaque non-reflective vinyl film, 0.0035-inch minimum thickness, with pressure-sensitive adhesive backing suitable for both exterior and interior applications.

B. Mounting Methods: Use concealed fasteners fabricated from materials that are not corrosive to sign material and mounting surface.

C. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and. elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchor-so Furnish inserts, as required, to be set into concrete or masonry work.

2.04 FABRICATION

A. General: Provide manufacturer's standard signs of configurations indicated.

1. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.
3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.

2.05 FINISHES, GENERAL

A. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Verify that items, including anchor inserts, and electrical power provided under other sections of Work are sized and located to accommodate signs.

C. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Locate signs and accessories where indicated, using mounting methods of types described and in compliance with manufacturer's written instructions.

B. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance.

C. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable.

D. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door. Mount sign centered approximately 5-feet 0-inches above finish floor.

E. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below:
   1. Mechanical Fasteners: Use non-removable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and. anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

F. Cast-Metal Plaques: Mount plaques using standard fastening methods to comply with manufacturer's written instructions for type of wall surface indicated.

1. Concealed Mounting: Mount plaques by inserting threaded studs into tapped lugs on back of plaque. Set in predrilled holes filled with quick-setting cement.

G. Where panel signs are scheduled or indicated to be mounted on glass, provide matching plate on opposite side of glass to conceal mounting materials.

3.03 CLEANING AND PROTECTION

A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

3.04 SIGN SCHEDULE

A. See Drawings for more information.

END OF SECTION

SECTION 12930 SITE FURNISHINGS

PART 1- GENERAL

1.01 SECTION INCLUDES

A. This Section includes site furnishings and related work as shown and specified on the Drawings.

1.02 SUBMITTALS

A. Product Data: Manufacturer's data and installation instructions.

1.03 QUALITY CONTROL

A. Source Limitations: Obtain each site furnishing product from a single manufacturer.

1.04 WARRANTY

A. Provide in required form for a period of 1 year from date of acceptance by Owner.

PART 2 - PRODUCTS

2.01 BENCHES

A. BENCH WITH BACK AND CENTER ARMREST – Provide and install:

1. Seats: Seats fabrication from 1/4 inch flat plate vertical and reinforced with 15/16 inch. O.D. by 10 gauge pre-galvanized structural steel tubing. 5/8 inch solid steel rod is welded underneath the seat for additional support. Legs are 1 inch by 1 inch solid steel square bar. Mounting plates shall be 1-1/2 inch by 1/4 inch. All electrically fully MIG welded.
2. Armrest: Armrest shall be 1 inch steel square bar electrically MIG welded to seat and back.
3. Coating: Electrostatic powder coated application, oven cured. Color green, as selected from standard color chart selected by City of Mobile.
4. Dimensions: 6'-0" portable bench with back. Seats are approximately 23 inches wide by 72 inches long. Seat height is approximately 18 inches from ground to the top of the seat. The overall dimensions are 74-1/2 inches by 24 inches by 35-13/16 inches per Basis of Design.
5. Hardware: Provide mounting hardware for attachment of bench at four leg locations to concrete slab. Hardware shall be rust inhibitive, tamper resistant and of strength to withstand thrust without stripping attachment.

6. Acceptable Products:
   a, Ultra Site
   1675 Locust Street
   Redbud, Illinois 62278
   618-282-8200
   www.ultra-site.com
   Hamilton Series Model #91C-S6 (Basis of Design)
   b. Approved Equivalent

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine conditions of work in place before beginning work; report defects.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install in conformance with referenced standards, manufacturer's written directions, as shown, and / or as specified.

B. Install site furnishings level, plumb, true, and securely anchored at locations as shown.

3.03 CLEANING

A. Keep premises free from accumulation of waste and debris. At completion of installation remove surplus materials and debris.

B. At completion clean exposed surfaces in a manner that will not damage finish.

END OF SECTION