

Addendum No. 2
To the Plans and Specifications of

Mobile Fire Station #19
1309 Azalea Road
Mobile, Alabama 36693

Four Pages + Attachment(s)
June 26, 2025

This addendum, in conjunction with the original issue of Contract Documents, dated February 28, 2025, hereby constitute the current documents for the construction project. This addendum consists of:

GENERAL:

- G1. Post rainfall inspections will be handled by the project civil engineer, outside of the construction project. Cost for inspections is not to be included in bid.
- G2. Contractor to include in bid price a \$110,000 allowance for hiring of Communications International for systems materials and installation.
- G3. Contractor to include in price a \$50,000 allowance for water, sewer, and electrical tap/connection fees. This allowance is only to be used for fees charged by the utility provider. Any leftover amount is to be credited to the owner.
- G4. Builders Risk: Contractor shall maintain Inland Marine Builder's Risk Insurance Coverage with a policy period concurrent with the Project, providing coverage to protect the interest of City of Mobile, Subcontractors, including property acquired under a sales tax incentive program, property in transit, and property on or off-premises, which shall become part of the Project. Coverage shall be written on a Replacement Cost and Completed Value Form basis in an amount at least equal to one hundred percent of the projected completed value of the Work, as well as subsequent modifications of that sum due to Change Orders. This policy shall also include Delay Cost coverage for soft costs, which shall at a minimum include additional expenses for interest, legal, consulting, insurance, architectural and engineering Subcontractor's overhead and general conditions, and equipment rental. The period of indemnity shall not be less than twelve (12) months and the limit of Delay Cost coverage shall not be less than ten percent (10%) of the projected completed value of the Work and shall be a scheduled limit on the policy in addition to the scheduled limit for the hard cost coverage. The waiting period of Delay Cost coverage may not exceed thirty (30) days. Collectively, the scheduled soft cost limit and hard cost limit may equal one hundred percent (100%) of the projected value of the Work, unless the builder's risk carrier requires the Delay Cost coverage to be in addition to the one hundred percent (100%) projected value of the Work. Contractor agrees to be responsible for reporting increases in the projected completed value of the Work due to Change Orders to its insurance carrier.

This Builders Risk insurance covering the work will have a deductible of no more than \$5,000 for each occurrence unless the loss is caused by a Named Storm; then the deductible shall be a maximum of 3% of insured value. Higher deductibles for Named Storm or a Wind/Hail Deductible may be accepted by City of Mobile upon written request by the Contractor and written acceptance by City of Mobile. All deductibles will remain the responsibility of the Contractor. All contractors are to include the 3% value in the bid price, and credit the 3% to the owner at the end of construction if no claim is made.

- G5. Contactor to include a tree and shrub allowance of \$25,000. Refer to Civil Sheet C10.0. All areas shown with grass hatching to receive 4" of topsoil and centipede sod. All same areas to receive irrigation sprinklering.

DRAWINGS:

Civil:

- C1. Sheet C7.3 – Detail Y indicates a flagpole detail. The flagpole is to be provided by contractor, and specified as follows:
Liberty Flagpole 30' External Halyard Commercial Grade
5 x 8 Nylon Flag, Base Collar, Revolving Aluminum Truck System, Gold Anodized Ball, 2 Bronze, Swivel Snaps, 9" Aluminum Cleat, Ground Mounting Sleeve
- C2. Sheet C6.0 – Water service tap note on Utility Plan Sheet C 6.0, "REQ'D 2 1/2" ZURN 350 DOUBLE CHECK VALVE BACKFLOW PREVENTOR OR ENGINEER APPROVED EQUAL. LOCATION TO BE COORDINATED WITH UTILITY OWNER" should be replaced with the note as follow "2-INCH WATER SERVICE CONNECTION SHALL INCLUDE 3"x 2" REDUCER WITH 2" METER, 2" DOUBLE CHECK VALVE, 2" CORP. STOP AS APPROVED PER MAWWS STANDARD SPECIFICATIONS"
- C3. A video and inspection report of existing sewer line was emailed to all contractors separately, for information purposes only.
- C4. Drainage Structures labels "A" and "E", S-Type, shall be constructed as a modified S-Inlet per the attached detail "HYDROCARBON & SAND INTERCEPTOR DRAINAGE STRUCTURE DETAIL". Filter and frame shown in detail should be manufactured by Revel Environmental Manufacturing, Inc. or approved equal.

Structural:

- S1. Sheet S001 – Wind Speed is indicated as 165 mph. Wind speed is to be changed to 179 mph.
- S2. Sheet S301 - Provide 12" of aggregate base below footings and 6" below all slabs (this includes 4" and 8" slabs).
- S3. Sheets S101/S102 – Sealer for exposed concrete floors is to be Dayton Superior Ultraseal EF. Neogard epoxy is only to be used for apparatus bay striping.

Architectural:

- A1. Not used.
- A2. Sheet A106 – At Wellness 105, Add Robbins Galaxy Extreme Flooring 1" thick. Flooring to receive rubber ramp at door back to typical floor level.
- A3. Sheet A105 – Mezzanine plan indicates Type 1 and Type 5 finishes. The legend for these finishes is found on Sheet A106.
- A4. Sheet A801 – Standing seam metal roof to be machine seamed, snap lock panel not allowed.
- A5. Sheet A101 – At mechanical yard, notes refer to fence and gate as aluminum screen. Fence and gate to be painted steel per specification.
- A6. Sheet A103 – Item 058 denotes an exterior mounted radio antenna. Provide a 3/4" conduit through wall to allow wiring into interior space above ceiling.
- A7. Sheet A103 – Items 054 and 072 are to be flush mounted in brick.
- A8. Sheet A301 – Based on the Type IV occupancy category and the 179-mph wind speed requirement, all aluminum storefront shall be Rated Type E, in order to meet the code requirement for this issue. Also, door types A and AA must be equal to Kawneer 1600IR System 1 (7-13/16") with impact: 350 Heavywall IR doors.
- A9. At Dining/Dayroom 124, a 3'x11' kitchen island is indicated. This item is to be by the contractor, and spec'd as follows: Advance tabco 3'x11' 16 GA Stainless Steel Commercial Work Table with Stainless Steel Undershelf.
- A10. Sheet A105 – Non-load-bearing metal studs are to be 20 ga.
- A11. Sheet A401 – At detail 118A, provide hooks equal to Bobrick B211.

Electrical:

- E1. Sheet E105 – Detail has been added for concrete base at flagpole light fixtures. Fixture type UP has been added to the light fixture schedule.
- E2. Sheet ES101 – For all CCTV symbols on exterior of building, provide a 3/4” conduit from exterior through wall to above ceiling.

Mechanical, Plumbing, and Fire Protection:

- M1. Sheet M100 – ADDED CO/NO2 SEQUENCE OF OPERATION. ADDED CO/NO2 SENSORS TO LEGEND
- M2. Sheet M101 – UPDATED FAN SCHEDULE TO REMOVE TIMER CONTROLS FOR RESTROOM EXHAUST FANS
- M3. Sheet M200 – ADDED COMPRESSED AIR PIPING AND HOSE REELS. ADDED MOUNTING HEIGHTS FOR INTAKE LOUVERS AND EXHAUST LOUVERS/FANS. ADDED CO/NO2 SENSORS
- M4. Sheet M301 – ADDED TYPICAL ENGRAVED TAG DETAIL, TYPICAL ANSUL R102 WITH REMOTE SUPPRESSION CABINET DETAIL, AND KITCHEN HOOD SECTION DETAIL. REMOVED CEILING MOUNTED OPTION FROM DETAIL 13.
- M5. Sheet P100 – REMOVED TEST & BALANCE GENERAL NOTE SECTION. ADDED COFFEE MACHINE AND FLOOR SINK TO FIXTURE SCHEDULE. UPDATED PIPING SIZES FOR FLOOR DRAIN AND HOSE BIBB FIXTURES. ADDED ACCESSORY WATER HEATER REMOTE CONTROL TO WATER HEATER SCHEDULE.
- M6. Sheet P200 – ADDED HOT WATER CONNECTION FOR CAN WASH. ADJUSTED NATURAL GAS PIPING SIZES. UPDATED KEYNOTE #2. ADDED WATER HEATER REMOTE CONTROL TO CORRIDOR 133.
- M7. Sheet P201 – CONNECTED CAN WASH FLOOR DRAIN TO GREASE WASTE SYSTEM. CHANGED FLOOR DRAIN TO FLOOR SINK FOR ICE MACHINE IN KITCHEN. ADDED BRANCH PIPING SIZES FOR SANITARY SYSTEM.
- M8. Sheet P300 – UPDATED SANITARY AND NATURAL GAS RISER DIAGRAMS PER CHANGES. UPDATED KEYNOTE #1.
- M9. Sheet P400 – REMOVED DETAIL 2 FROM SHEET AND REPLACED WITH WATER HAMMER DETAIL.
- M10. Sheet P401 – ADDED GREASE INTERCEPTOR, WATER HEATER PIPING, AND LAVATORY MIXING VALVE DETAILS.

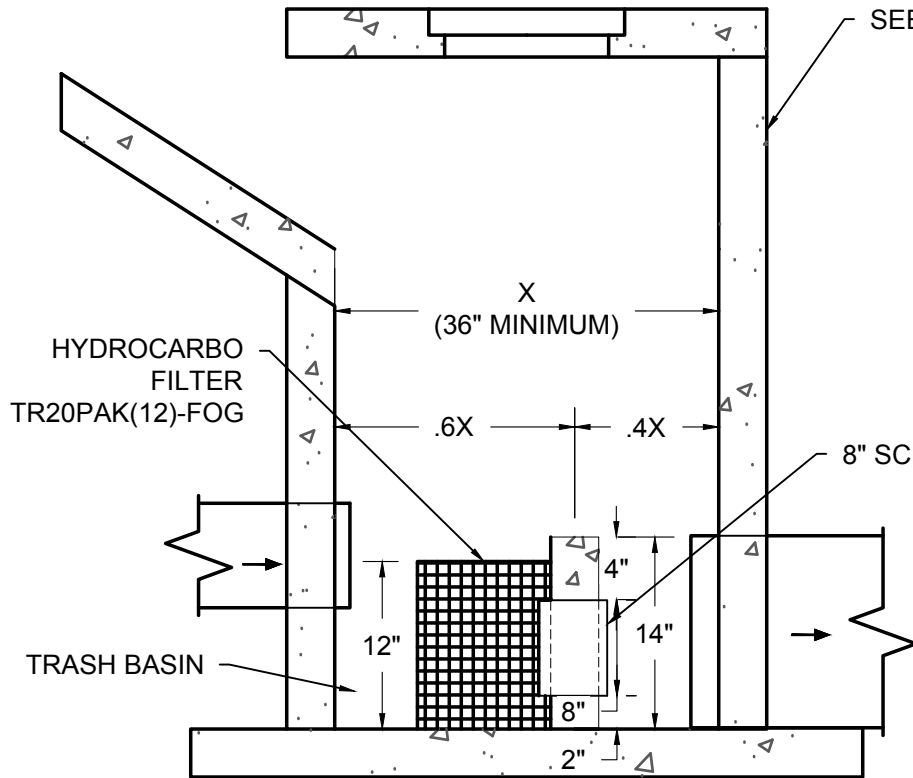
SPECIFICATIONS:

1. Section 105113 Metal Lockers – Metal lockers may use riveted construction instead of full welded. 18” wide locks to be equipped with single door. 24” wide lockers to be equipped with braced single doors.
2. Section 087100 Door Hardware – At hardware set #1, add one Securitron AQL series power supply above ceiling for each door 101A and 124C.
3. Section 133419 Metal Building Systems - Roof and wall panels are allowed to be 24 ga.

SUBSTITUTIONS:

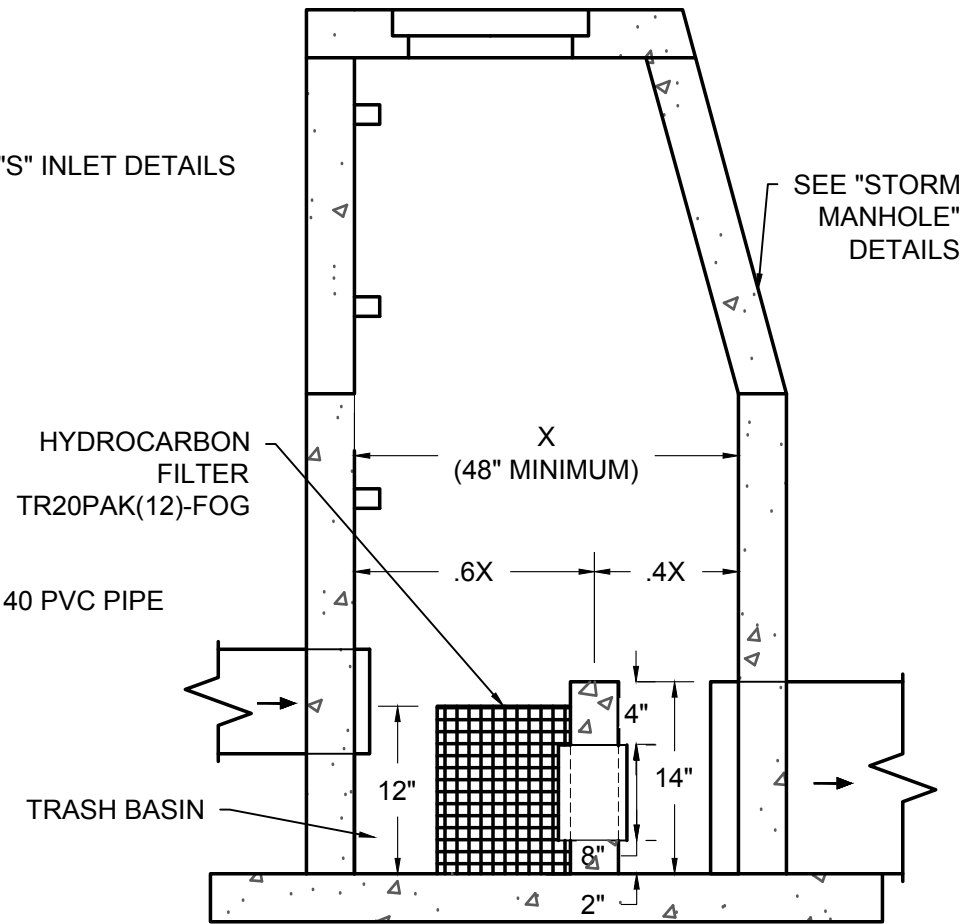
1. For the trench drain cover outside the apparatus bay, an East Jordan V-7383-20 or an Ericson’s Duratrench may be substituted for the Neenah Foundry model specified. The cover used must be a bolt down type.
2. Lockers Mfg, LLC has been added to the list of approved metal locker vendors.

END OF ADDENDUM #2



"S" INLET/GRATE INLET WITH HYDROCARBON FILTER

N.T.S.



STORM MANHOLE WITH HYDROCARBON FILTER

N.T.S.

NEW FIRE STATION #19
AZALEA ROAD
MOBILE, AL

TITLE HYDROCARBON & SAND INTERCEPTOR
DRAINAGE STRUCTURE DETAIL

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DATE	6/25/25	SCALE	NTS
PROJECT	24052	DRAWING	1
		REV	

RCP NOTES:

1. ALL MOUNTING HEIGHTS TO BE VERIFIED WITH EQUIPMENT SPECS PRIOR TO INSTALLATION OF SERVICES.
2. COORDINATE LIGHTING CONTROLS W/ LIGHTING FIXTURE TO INSURE ALL DIMMERS AND FIXTURES ARE COMPATIBLE.
3. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO NEAREST UN-SWITCHED LIGHTING CIRCUIT, TYPICAL OF ALL.
4. BATHROOM EXHAUST FANS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT.
5. CONTRACTOR SHALL VERIFY SIZING OF BREAKERS AND CABLES PRIOR TO INSTALLATION.
6. ANY AND ALL PENETRATIONS TO EXTERIOR BUILDING MATERIALS ARE TO BE SEALED WATERTIGHT DURING / AT COMPLETION OF DEVICE INSTALL. ANY DISTURBED AREAS OF PAINT / FINISH ARE TO BE TOUCHED UP TO MATCH EXISTING.
7. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH MECHANICAL DUCTWORK TO PREVENT INTERFERENCE.
8. EXIT SIGNS WITH ARROW INDICATORS ARE MARKED.
9. ALL DEVICE COVER-PLATES TO BE BRUSHED STAINLESS STEEL.

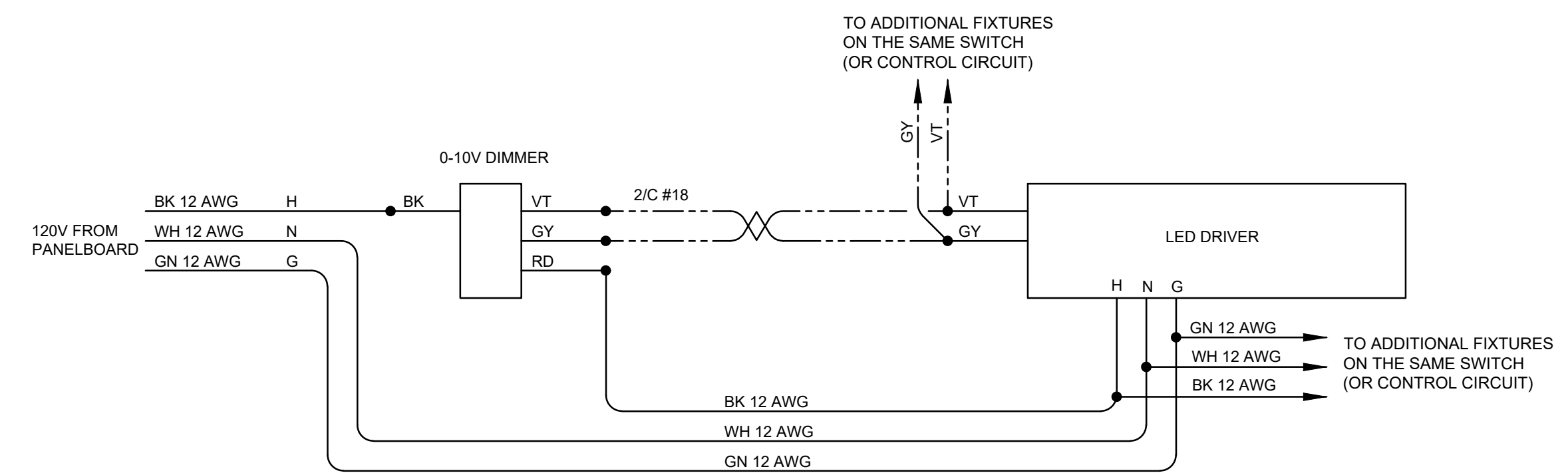
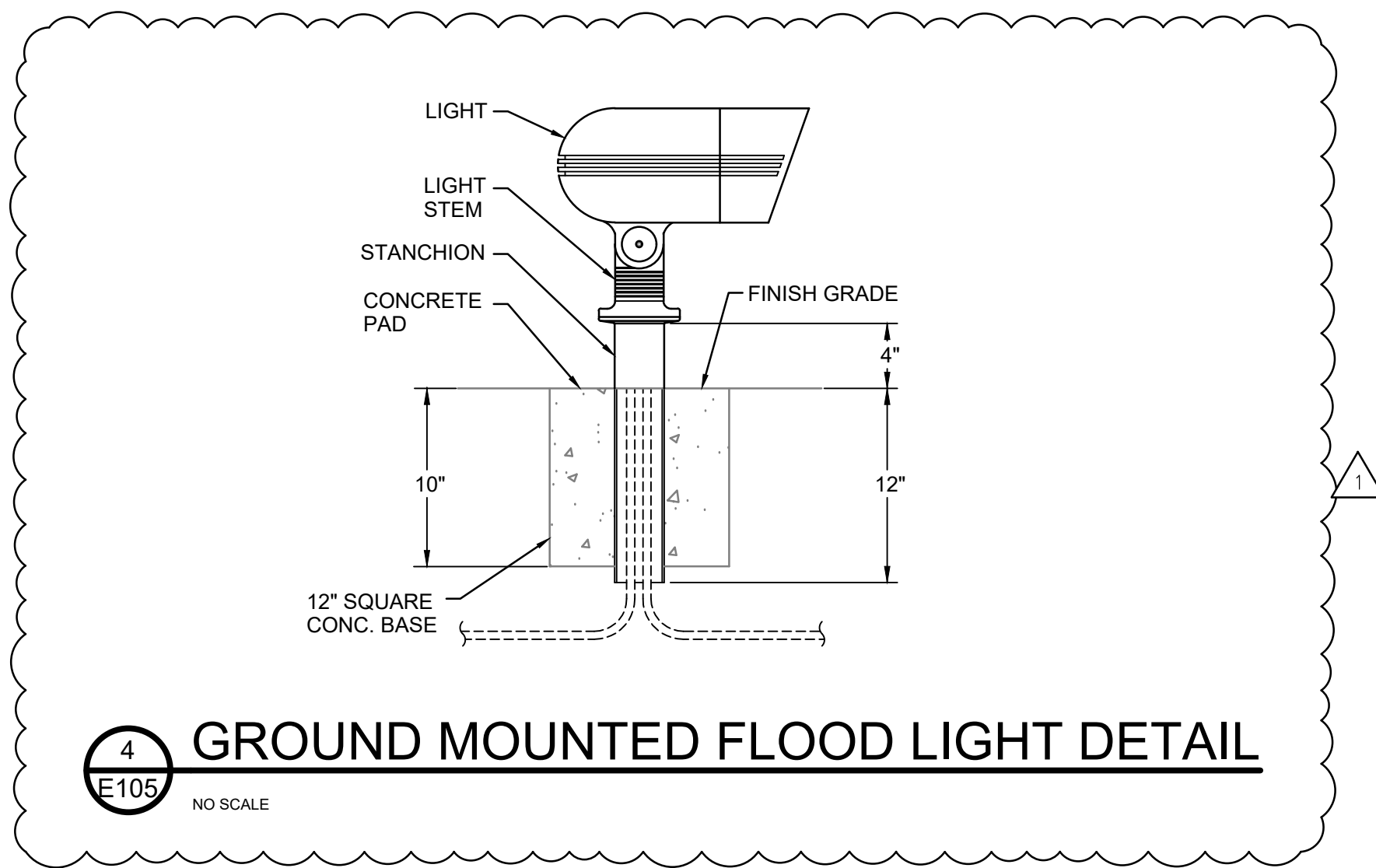
KEYED LIGHTING NOTES

- ① DOWN TO LIGHT SWITCH IN ELECTRICAL ROOM, SEE E104.

LIGHTING CONTROL DEVICES

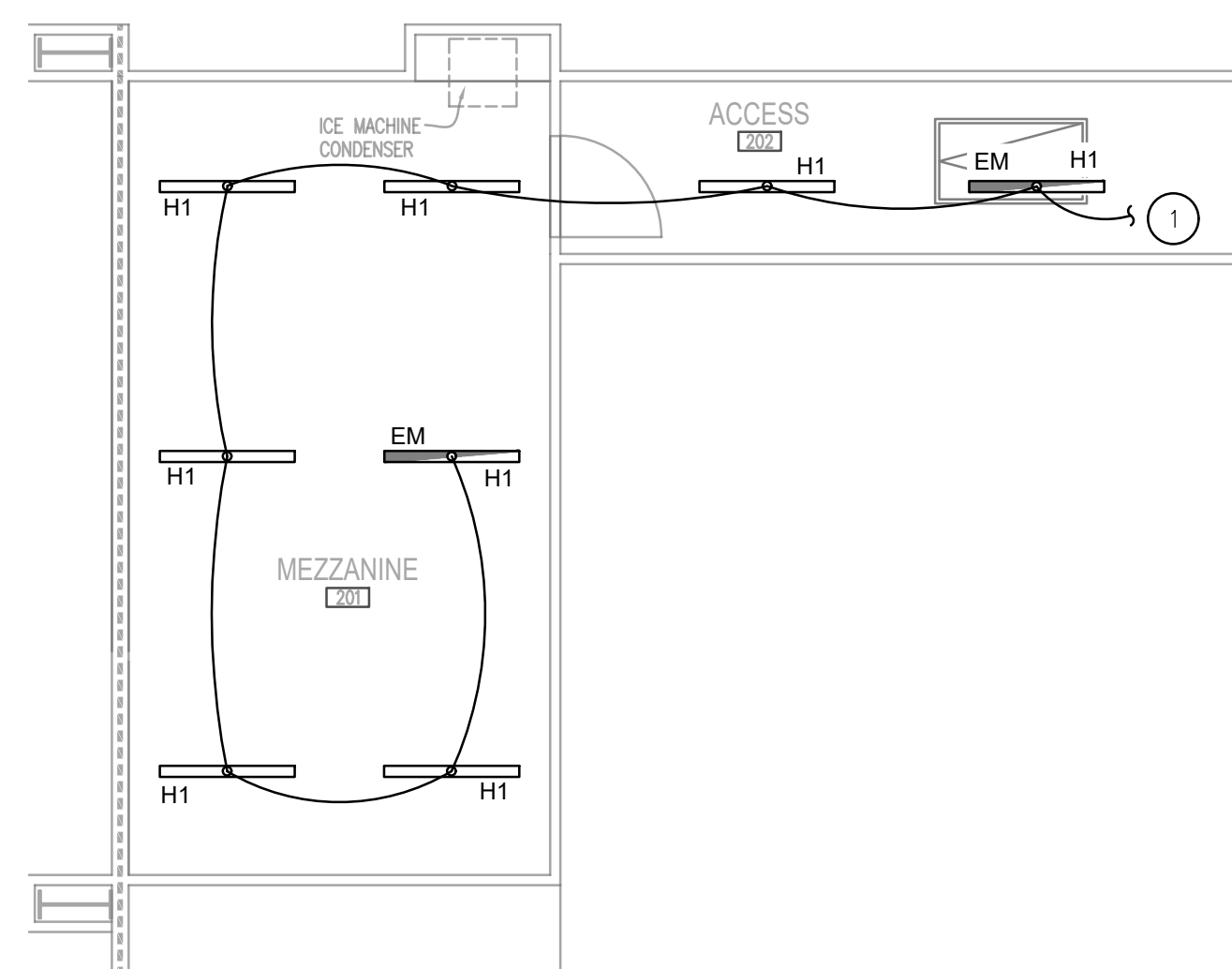
- PP 1 RELAY POWER PACK.
 H OS CEILING MOUNTED PRESENCE DETECTOR, TWO WAY COVERAGE (HALL)

LIGHTING FIXTURE SCHEDULE					
MARK	DESCRIPTION	VOLTAGE	PARAMETERS	WATTAGE	MANUFACTURER/MODEL
A1	2x4 RECESSED LED LIGHT PANEL	120	5000L/4K	50	LSI SFP24-424-LED-50-UE-DIM-40
A2	2x2 RECESSED LED LIGHT PANEL	120	3000L/4K	30	LSI SFP22-424-LED-30-UE-DIM-40
A3	2x4 RECESSED INDIRECT LED FIXTURE	120	5400L/4K	38	LSI CLRT24-424-FS1-UNV
H1	4 FOOT LED ENCLOSED STRIP LIGHT	120	5000L/4K	23	LSI SDL4-908-LED-50L-FL-UNV-DIM1-40-80CRI
HB	HIGHBAY LED FIXTURES	120	12000L/4K	79	LSI MHB-424-1-LED-12L-DPW-UNV-40-WF/TR4RL-HAZ
D1	4" SQUARE RECESSED LED DOWNLIGHT WET LOCATION	120	2400L/4K	22	LSI LCD4-424-LED-24L-UNV-DIM1-40-WF/TR4RL-HAZ
D2	4 FOOT LED ENCLOSED LED LIGHT WET LOCATION	120	2100L/4K	15	MERCURY LIGHTING LW4-4-2100-40K-HTA-UNI-SR
C1	4" WALL MOUNTED LED CYLINDER DOWN LIGHT	120	1000L/4K	10	LIGHTSMITH SC-1000-77-MOD4-DO-SBP-120V-WMT-ELV-LBO
C2	8" WALL MOUNTED LED CYLINDER DOWN AND UP LIGHT	120	2400L/4K	17	LIGHTSMITH SC-1000-77-MOD8-UD-SBP-120V-WMT-ELV-LBO
M1	WALL MOUNTED MAP LIGHT	120	1000/4K	98	LSI LAW2-W-6-10L-840-FA-N
W1	WALL MOUNTED LED EXTERIOR FIXTURE	120	3010L/40K	19	LSI XWS-424-LED-3L-SIL-FT-UNV-DIM-40-70CRI-(FINISH)
V1	VANITY FIXTURE	120	3224L/4K	29	LSI W442-908-LED-55-NW-UE
UP	GROUND MOUNTED OUTDOOR FLAG LIGHT	120	8000L/4K	60	TECHLIGHT FRG-213-N-8L-NSP-1-YM-FINISH-DLP-P1000PC/FRG355
X1	EXIT SIGN W/LED LIGHT STRIP & BATTERY BACK UP	120	N/A	5	EVENLITE TLP-2206-R2U-W-2206-SD
X2	WET LOCATION OUTDOOR EMERGENCY LIGHT W/BATTERY BACKUP	120	N/A	5	EVENLITE WW-2206-EM-(FINISH)



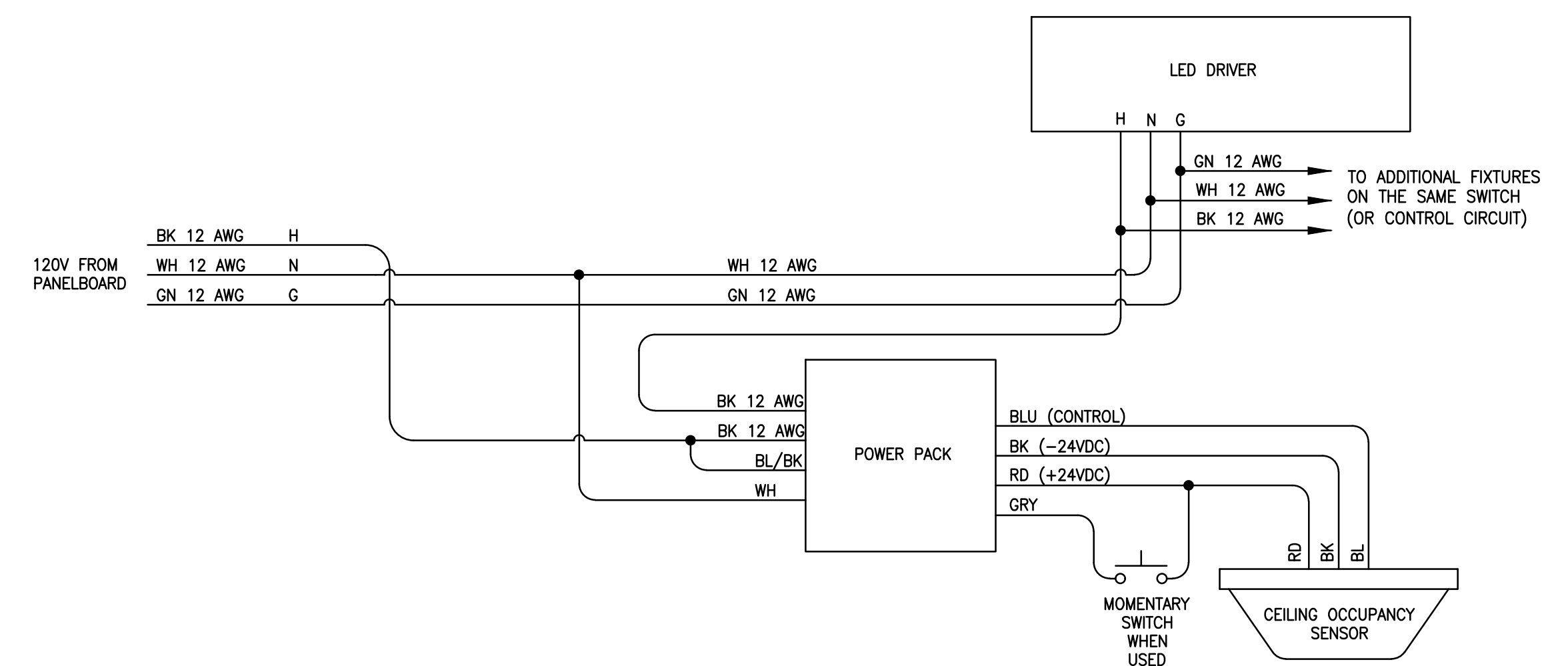
WALL SWITCH WITH 0-10V DIMMING WIRING DIAGRAM

NO SCALE
 NOTE: WIRING MAY VARY DEPENDING ON DEVICE SELECTION.
 COORDINATE WITH VENDORS WIRING DIAGRAM.



MEZZANINE LIGHTING PLAN

3/16"=1'-0"



OCCUPANCY SENSOR WIRING DIAGRAM

NO SCALE
 NOTE: WIRING MAY VARY DEPENDING ON DEVICE SELECTION.
 COORDINATE WITH VENDORS WIRING DIAGRAM.

New Fire Station #19
 Azalea Road
 Mobile, AL

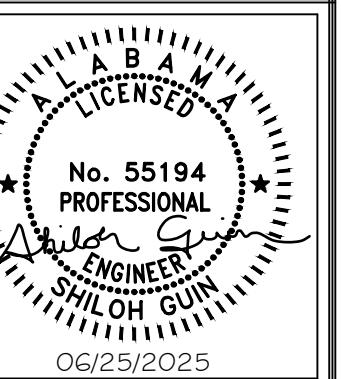
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REVISIONS

△	ADDED FLAG POLE
△	LIGHT MOUNTING BASE
△	
△	
△	
△	
△	
△	



JOB #:
 DATE: 2/28/2025

E105
 ENLARGED LIGHTING PLAN



1816 Pass Road, Gulfport, MS 39501 228-864-5050(1)

H.V.A.C GENERAL NOTES:

SCOPE: THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF MECHANICAL WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK. WHERE INFORMATION REQUIRED TO PROVIDE A COMPLETE WORK IS OMITTED OR UNCLEAR, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING A CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMISSION OF BIDS. BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

CODES & STANDARDS: BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

MECHANICAL CODE COMPLIANCE: COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL MECHANICAL CODE AND ALL LOCAL AMENDMENTS IN THE PERFORMANCE OF MECHANICAL WORK REQUIRED FOR THIS PROJECT. ENSURE THAT ALL OUTDOOR AIR INTAKES ARE 10'-0" OR MORE FROM EXHAUSTS, FLUES, PLUMBING VENTS AND OTHER SOURCES OF CONTAMINATION. ALL COMBUSTIBLE MATERIALS INCORPORATED INTO THE PROJECT SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED.

COORDINATION: COORDINATE THE MECHANICAL WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK. OBTAIN FINAL LOCATIONS OF CEILING GRIDS, LIGHTING FIXTURES, SPRINKLERS, PIPING AND OTHER COMPONENTS THAT WILL AFFECT THE LAYOUT OF HVAC DUCTWORK AND TERMINAL DEVICES PRIOR TO COMMENCING INSTALLATION WORK.

CUTTING & PATCHING: CONTRACTOR SHALL PROVIDE SLEEVES, CURBS, AND PORTALS AS NECESSARY TO MINIMIZE THE NEED TO CUT STRUCTURAL COMPONENTS. PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING, DUCTWORK, AND OTHER MECHANICAL WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. NO STRUCTURAL COMPONENTS MAY BE CUT WITHOUT 24-HOUR PRIOR WRITTEN APPROVAL OF ARCHITECT/ENGINEER. ALL PENETRATIONS AND A/C CURBS ARE TO BE BUILDING STANDARD.

MATERIALS, EQUIPMENT, AND SUBMITTALS: PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE, SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.

SUBSTITUTIONS: THE OWNER WILL CONSIDER SUBSTITUTIONS OF THE "DESIGN BASIS" SPECIFICATION WHERE GREATER VALUE CAN BE ACHIEVED. OBTAIN THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER PRIOR TO MAKING ANY SUBSTITUTIONS AND TAKE RESPONSIBILITY FOR THE DIMENSIONAL AND PERFORMANCE CONSTRAINTS IMPOSED BY THE SUBSTITUTED EQUIPMENT/MATERIAL.

H.V.A.C. EQUIPMENT: ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE AN EFFECTIVE MEANS OF ISOLATING VIBRATIONS GENERATED BY EQUIPMENT FROM DUCTWORK, PIPING, CONDUITS, AND THE BUILDING STRUCTURE.

HVAC ON ROOF: PROVIDE MANUFACTURED CURBS, EQUIPMENT, RAILS, PORTALS, PIPE SUPPORTS AND OTHER ROOF MOUNTING DEVICES AS NECESSARY. SECURE MOUNT THE EQUIPMENT WHILE PROTECTING THE ROOF FROM DAMAGE. FLASH, COUNTER FLASH AND SEAL ALL OPENINGS TO ENSURE A WATERTIGHT ENVELOPE. ALL PENETRATIONS AND A/C CURBS TO BE BUILDING STANDARD.

REFRIGERANT PIPING: PROVIDE TYPE L-ACR HARD TEMPER COPPER TUBING AND WROUGHT COPPER REFRIGERATION TYPE FITTINGS FOR ALL REFRIGERANT PIPING. BRAZE ALL JOINTS TO WITHSTAND MINIMUM 500 PSIG PRESSURE. PURGE REFRIGERANT PIPES WITH DRY NITROGEN AFTER INSTALLATION AND EVACUATE SYSTEM TO 250 MICRONS FOR A PERIOD OF 24 HOURS PRIOR TO CHARGING SYSTEMS. CHARGE SYSTEMS WITH REFRIGERANT INDICATED IN EQUIPMENT SCHEDULES AS REQUIRED TO OBTAIN PROPER OPERATING PRESSURES DURING NORMAL OPERATION. PROVIDE ALL DX SYSTEMS REFRIGERANT PIPING WITH PRESSURE GAUGES. PROVIDE A LIQUID LINE FILTER-DRIER AND MOISTURE INDICATING SIGHT GLASS FOR EACH SYSTEM, AS WELL AS OTHER REFRIGERATION SPECIALTIES INDICATED ON DRAWINGS. TEST SYSTEMS AFTER STARTUP FOR LEAKS, AND REPAIR ALL LEAKS FOUND AND CLEAN & RECHARGE SYSTEMS ANEW. PROVIDE UNICELLULAR RUBBER INSULATION ON SUCTION PIPING AND COLD REFRIGERATION EQUIPMENT, WITH A MINIMUM THICKNESS OF 3/8" INDOORS AND 3/4" OUTDOORS. PROVIDE A TRAPPED CONDENSATE DRAIN FOR EACH EVAPORATOR COIL, SIZED TO THE CONNECTION PROVIDED AND RUN OUT TO AN APPROPRIATE SANITARY DRAIN CONNECTION, OR SUITABLE FRENCH DRAIN, WITH A MINIMUM 2" AIR GAP.

PIPING INSULATION: PROVIDE 1/2" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET (ASTM C-547, C-921, TYPE I or II AS APPROPRIATE FOR TEMPERATURE) ON ALL PIPING WHERE FLUIDS TEMPERATURE ARE MORE THAN 10°F BELOW AMBIENT OR MORE THAN 25° ABOVE AMBIENT TEMPERATURE. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PROVIDE PRE-MOLDED PVC COVERS AT ALL FITTINGS. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS. (SEE FLOOR PLANS FOR INSULATION REQUIREMENTS AT SPECIAL SYSTEMS.)

INSTRUMENTATION: PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS AT EACH ITEM OF HEAT TRANSFER EQUIPMENT (BOILER, CHILLER, COOLING TOWER, COIL, HEAT EXCHANGER, ETC.) AND PRESSURE GAUGES WITH GAUGE COCKS AND SNUBBERS, AT ITEM OF HEAT TRANSFER EQUIPMENT AND EACH PRIME MOVER (PUMP, FAN, ETC.).

IDENTIFICATION: PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (DUCTWORK AND PIPING SYSTEMS). PROVIDE ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT, "SNAP-ON" PIPE MARKERS FOR PIPING, AND ADHESIVE BACKED PLASTIC TAG MARKERS FOR DUCTWORK. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE FRAMED UNDER GLASS.

CONTROLS: PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF TEMPERATURE CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION.

SAFETY DEVICES: ALL AIR MOVING EQUIPMENT WITH RATED AIRFLOW CAPACITY OF 2000 CFM OR GREATER SHALL BE EQUIPPED WITH A RETURN-AIR DUCT-MOUNTED SMOKE DETECTOR. WHERE THE AIRFLOW CAPACITY EXCEEDS 15,000 CFM, PROVIDE SMOKE DETECTORS AT THE SUPPLY AND RETURN DUCTS. WHEN THE DETECTOR SENSES AIRBORNE SMOKE IN THE DUCTS, THE DEVICE SHALL SHUT DOWN THE ASSOCIATED FAN. THE DEVICE SHALL INCLUDE AN AUXILIARY DRY CONTACT FOR FIRE ALARM SYSTEM INTERLOCK, WHERE PROVIDED. PROVIDE A MAGNETICALLY ACTUATED SMOKE DETECTOR TEST STATION FOR EACH SMOKE DETECTOR, LOCATED ON A WALL, 54" A.F.F., AS DIRECTED BY THE FIRE AUTHORITY HAVING JURISDICTION.

AIR TEST & BALANCE: PROVIDE THE SERVICES OF A TECHNICIAN, QUALIFIED AND EXPERIENCED IN THE FIELD OF H.V.A.C. SYSTEMS COMMISSIONING TO INITIATE, QUANTIFY, ADJUST AND CALIBRATE THE OPERATION OF THE INSTALLED SYSTEMS. PERFORM COMMISSIONING WORK IN ACCORDANCE WITH THE STANDARDIZED METHODOLOGY SET FORTH IN ASHRAE GUIDELINE 1-1996 "THE HVAC COMMISSIONING PROCESS" PRIOR TO COMMISSIONING, REPLACE ALL AIR FILTER MEDIA. USE MINIMUM MERV-13 FILTERS FOR LEED-CERTIFIABLE PROJECTS, AND MINIMUM MERV-8 FOR OTHER PROJECTS. SUBMIT COMMISSIONING REPORTS WITHIN 3 DAYS OF SUBSTANTIAL COMPLETION. THE PROJECT SHALL BE DEEMED SUBSTANTIALLY COMPLETE WHEN THE WORK OR A DESIGNATED PORTION THEREOF IS SUFFICIENTLY COMPLETE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SO THAT THE OWNER MAY OCCUPY THE WORK OR DESIGNATED PORTION THEREOF FOR THE USE FOR WHICH IT IS INTENDED.

CONTRACT CLOSEOUT: PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE MECHANICAL PORTION OF THE PROJECT.

WARRANTY: THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE COMMISSIONING ACCEPTANCE DATE. PROVIDE EVIDENCE OF ALL EXTENDED WARRANTIES AVAILABLE FROM EQUIPMENT MANUFACTURERS.

TEMPERATURE CONTROL SEQUENCE OF OPERATION:

SPLIT SYSTEM COOLING:

1. THE TEMPERATURE CONTROL SYSTEM SHALL CONSIST OF DISCRETE ELECTRIC DEVICES. EACH H.V.A.C. SYSTEM SHALL BE CONTROLLED INDEPENDENTLY OF THE OTHERS.
2. ALL DEVICES SHALL BE MOUNTED ON NEMA RATED ELECTRICAL BOXES AND ALL CONDUCTORS SHALL BE CONTAINED WITHIN E.M.T. CONDUIT. DO NOT RUN LOW VOLTAGE CONTROL WIRING IN CONDUITS WITH LINE VOLTAGE POWER WIRING.
3. PROVIDE A 7-DAY, SINGLE STAGE (UNLESS OTHERWISE INDICATED) HEATING/COOLING PROGRAMMABLE THERMOSTAT FOR EACH SPLIT SYSTEM. PROVIDE CONDUCTORS FROM THE THERMOSTAT TO THE AIR HANDLER AND FROM THE AIR HANDLER TO THE OUTDOOR HEAT PUMP UNIT CONTROL PANEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEATING AND COOLING EQUIPMENT MANUFACTURER'S REQUIREMENTS. PROVIDE TWO SPARE CONDUCTORS IN EACH RUN.
4. THE THERMOSTAT SHALL BE MOUNTED WITHIN THE ASSOCIATED CONDITIONED SPACE, AT 54" ABOVE THE FINISHED FLOOR UNLESS NOTED, AND SHALL INCLUDE AN INTEGRAL TEMPERATURE SENSOR AND MANUALLY OPERATED "SYSTEM" SWITCHES.
5. THE AIR HANDLER SUPPLY FANS SHALL OPERATE CONTINUOUSLY OR INTERMITTENTLY AS DETERMINED BY USER-SELECTABLE SWITCH. EXHAUST FANS SHALL OPERATE FROM A LOCAL, WALL MOUNTED TOGGLE SWITCH.
6. DURING OCCUPIED HOURS, WHEN THE SYSTEM SWITCH IS SET TO "COOL" AND THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE REFRIGERATION COMPRESSOR SHALL START TO PROVIDE COOLED AIR TO THE SPACE UNTIL THE SETPOINT TEMPERATURE IS SATISFIED, AT WHICH TIME THE COMPRESSOR SHALL STOP. NO COOLING SHALL BE PROVIDED TO THE SPACE DURING UNOCCUPIED HOURS.
7. REFRIGERATION COMPRESSOR SHALL OPERATE IN REVERSE MODE DURING OCCUPIED HOURS, WHEN THE SYSTEM SWITCH IS SET TO "HEAT" AND THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, TO PROVIDE HEATED AIR TO THE SPACE UNTIL THE SETPOINT TEMPERATURE IS SATISFIED, AT WHICH TIME THE COMPRESSOR SHALL SHUT OFF. WHEN THE OUTDOOR AIR TEMPERATURE DROPS BELOW 30°F, THE ELECTRIC RESISTANCE HEATER SHALL OPERATE TO SATISFY HEATING REQUIREMENTS.
8. DURING UNOCCUPIED HOURS, WHEN THE SYSTEM SWITCH IS SET TO "HEAT" AND THE SPACE TEMPERATURE DROPS BELOW THE LOWERED SETPOINT, THE AIR HANDLER FAN SHALL START AND THE HEATER OR REVERSE CYCLE COMPRESSOR SHALL OPERATE TO PROVIDE HEATED AIR TO THE SPACE UNTIL THE SETPOINT TEMPERATURE IS SATISFIED, AT WHICH TIME THE UNIT SHALL SHUT OFF.
9. IN ADDITION TO STANDARD SAFETY DEVICES PROVIDED BY THE EQUIPMENT MANUFACTURERS, PROVIDE A DUCT MOUNTED SMOKE DETECTOR FOR EACH FURNACE WHERE REQUIRED BY LOCAL ORDINANCE, WIRED TO SHUT DOWN THE FURNACE OPERATION UPON DETECTION OF PRODUCTS OF COMBUSTION IN THE AIRSTREAM. PROVIDE AUXILIARY N.C. CONTACTS FOR CONNECTION TO A FIRE ALARM SYSTEM.
10. HVAC CONTROLS TO BE OF DIFFERENT MANUFACTURER THAN HVAC UNITS.

HUMIDITY CONTROL SEQUENCE OF OPERATION:

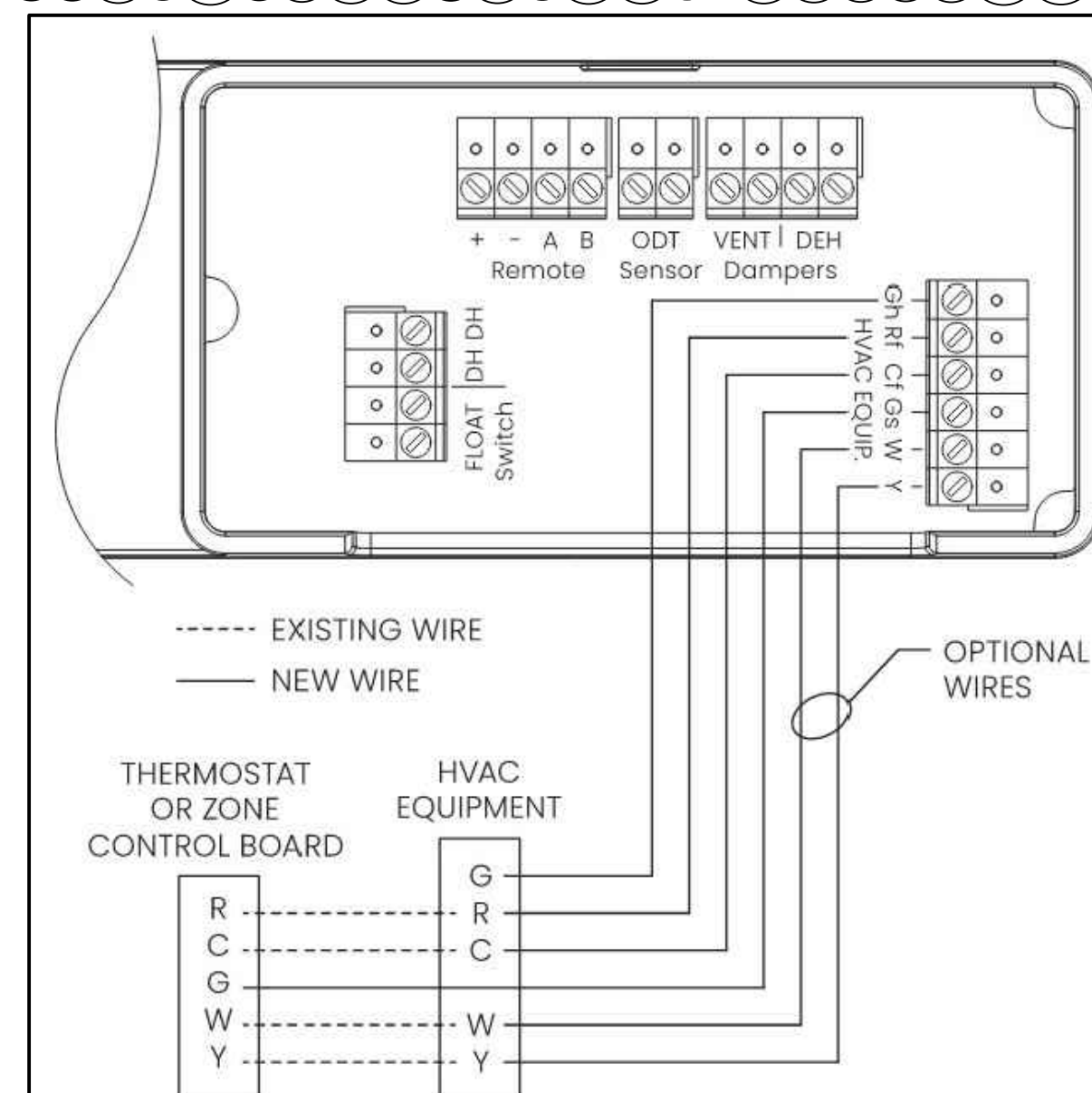
DEHUMIDIFIER:

1. THE HUMIDITY CONTROL SYSTEM SHALL CONSIST OF DISCRETE ELECTRIC DEVICES. EACH H.V.A.C. SYSTEM SHALL BE CONTROLLED INDEPENDENTLY OF THE OTHERS.
2. ALL DEVICES SHALL BE MOUNTED ON NEMA RATED ELECTRICAL BOXES AND ALL CONDUCTORS SHALL BE CONTAINED WITHIN E.M.T. CONDUIT. DO NOT RUN LOW VOLTAGE CONTROL WIRING IN CONDUITS WITH LINE VOLTAGE POWER WIRING.
3. HUMIDISTAT SHALL BE INTEGRAL TO DEHUMIDIFIER EQUIPMENT.
4. THE DEHUMIDIFIER SUPPLY FANS SHALL OPERATE INTERMITTENTLY AS DETERMINED BY HUMIDISTAT. DEHUMIDIFIER SHALL ACTIVATE ONCE RELATIVE HUMIDITY READING EXCEEDS 50%, AND SHALL CONTINUE TO OPERATE UNTIL RELATIVE HUMIDITY FALLS TO 50%.
5. IN CASES WHERE AIR HANDLER IS SHUT OFF AND HUMIDITY LEVELS TRIGGER DEHUMIDIFIER ACTIVATION, THE AIR HANDLER SHALL BE WIRED TO ACTIVATE UPON DEHUMIDIFIER ACTIVATION TO ENSURE PROPER AIRFLOW FOR DEHUMIDIFICATION.

CO/NO2 CONTROL SEQUENCE OF OPERATION:

CO/NO2 SENSORS AND ALARMS:

1. THE CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS SHALL BE MOUNTED 5 FEET ABOVE FINISHED FLOOR, MINIMUM.
2. ALL CO AND NO2 SENSORS SHALL BE SET TO ACTIVATE EXHAUST FANS UPON DETECTION OF 0.2-0.5 PPM.
3. ALL CO AND NO2 SENSORS SHALL TRIGGER ALARM ACTIVATION UPON DETECTION OF 1 PPM OR GREATER.

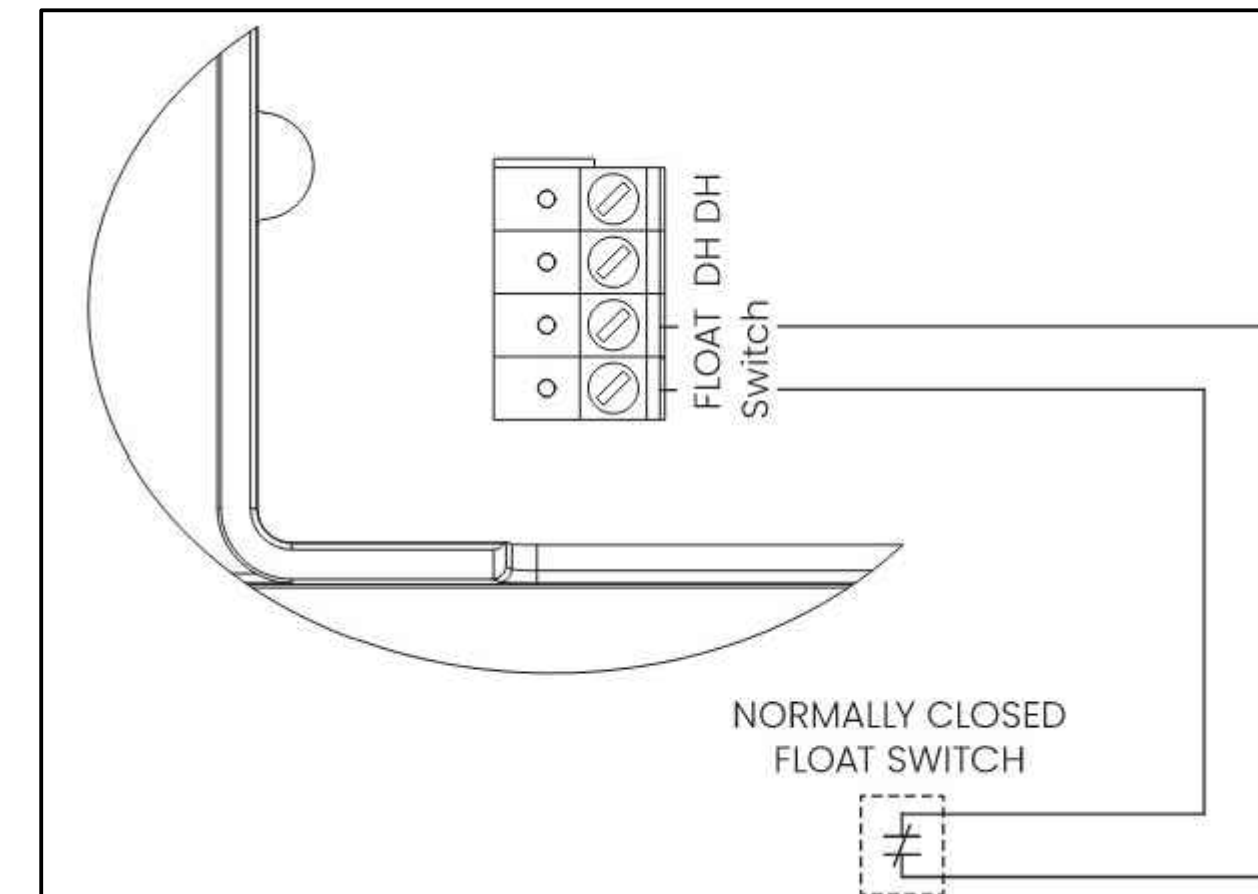
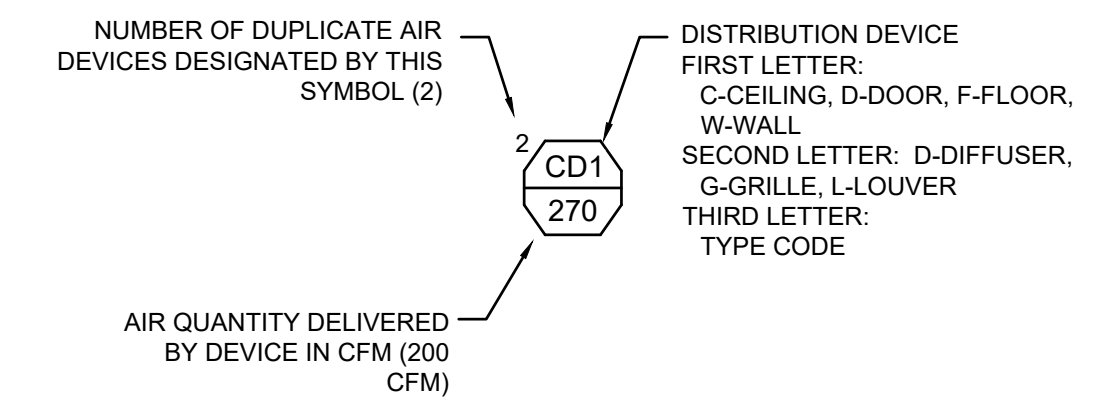


DEHUMIDIFIER CONTROLS DIAGRAM (HVAC CONNECTION)

1. THE DEHUMIDIFIER MUST BE WIRED TO THE HVAC SYSTEM TO PREVENT SHORT-CIRCUITING DEHUMIDIFIED AIR DIRECTLY BACK TO THE DEHUMIDIFIER INLET, DUE TO THE SYSTEM BEING DUCTED IN A RETURN-TO-RETURN CONFIGURATION FOR THE HVAC SYSTEM.
2. THE OPTIONAL W AND Y WIRES ARE NOT TO BE CONNECTED UNLESS NOTED OTHERWISE, REFER TO MANUFACTURERS INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

DUCTWORK LEGEND	
NEW WORK	
	SQUARE TO ROUND SIDE TAKEOFF WITH MANUAL VOLUME DAMPER
	LAY-IN DIFFUSER WITH FLEX. DUCT CONN. (8'-0" MAX. LENGTH)
	RADIUS ELBOW R=1/2 DUCT WIDTH MINIMUM
	SQUARE ELBOW WITH ACOUSTIC TURNING VANES
	ECCENTRIC TRANSITION X=30° MAXIMUM
	CONCENTRIC TRANSITION X=30° MAXIMUM
	TRANSITION FLAT ON TOP
	TRANSITION FLAT ON BOTTOM
	OFFSET UP OR DOWN AS INDICATED
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	MOTOR OPERATED OPPOSED BLADE CONTROL DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	UL 555 DYNAMIC 1 1/2 HR. FIRE DAMPER (PROVIDE ACCESS DOOR)
	FLEXIBLE DUCT CONNECTION
	THERMOSTAT OR TEMPERATURE SENSOR
	POTENTIOMETER (MANUAL O.A.I. INTERFACE)
	HUMIDISTAT OR HUMIDITY SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	SUPPLY AIRFLOW (CUBIC FEET PER MINUTE)
	RETURN AIRFLOW
	EXHAUST AIRFLOW
	OUTDOOR INTAKE AIRFLOW
	RECIRCULATION AIR DAMPER
	EXHAUST AIR DAMPER
	OUTDOOR AIR DAMPER
	COMBUSTION AIR INTAKE
	SUPPLY DUCT
	RETURN DUCT
	SUPPLY DUCT
	EXHAUST DUCT
	MECHANICAL EQUIPMENT

DIFFUSERS/GRILLES/LOUVERS



DEHUMIDIFIER CONTROLS DIAGRAM (CONDENSATE PUMP CONNECTION)

1. REMOVE JUMPER WIRE THAT IS FACTORY INSTALLED IN THE FLOAT SWITCH TERMINALS. WIRE THE FLOAT SWITCH TO THE CONDENSATE PUMP OVERFLOW SWITCH AS SHOWN ABOVE. REFER TO MANUFACTURERS INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

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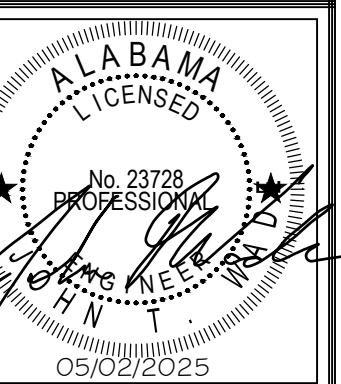


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ADDENDUM 2 REVISIONS



JOB #: FD24020
DATE: 2/28/2025



M100

MECHANICAL SCHEDULES
AND NOTES

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE				
SYSTEM TYPE	SPLIT SYSTEM WALL MOUNT	SPLIT SYSTEM WALL MOUNT	REMARKS	
DESIGN BASIS MANUFACTURER	DAIICUBISHI	DAIICUBISHI	-	
MARK	DFC-1	DFC-2	-	
DESIGN BASIS MODEL	MSZ-FS06NA	MSZ-FS06NA	-	
TOTAL CAPACITY (MBH)	9.0	9.0	-	
SENSIBLE HEAT FACTOR	0.96	0.96	-	
ENT. DB/WB °F	95/71	95/71	-	
VOLTAGE	208/10	208/10	-	
MCA/MOCP	1.0"	1.0"	-	
MARK	DCU-1	DCU-2	-	
DESIGN BASIS MODEL	MUZ-FS06NA	MUZ-FS06NA	-	
REFRIGERANT	R454B	R454B	-	
AMBIENT TEMP °F	95	95	-	
VOLTS/PHASE	208/10	208/10	-	
MCA/MOCP	10.0/15	10.0/15	-	
MIN. SEER2	32.2	32.2	-	

THE UNIT MANUFACTURER SHALL PROVIDE A REFRIGERANT PIPING DIAGRAM INDICATING PIPE SIZES AND ALL REQUIRED VALVES AND SPECIALTIES.

* THE INDOOR UNIT POWER IS NORMALLY SUB-FED FROM THE OUTDOOR UNIT, BUT MAY BE FIELD CONVERTED.

REGISTER, DIFFUSER, GRILLE SCHEDULE									
TAG	MFR. --- MODEL	MOUNTING & TYPE	BORDER	FACE	MATERIAL	FINISH	OBD	ACCESSORIES/REMARKS	
CD1	TITUS TMS-AA	LAY-IN, ROUND NECK, SUPPLY DIFFUSER	TYPE 3	LOUVERED	ALUMN.	#26 WHITE	YES	2'x2'	
CD2	TITUS TMS-AA	LAY-IN, ROUND NECK, SUPPLY DIFFUSER	TYPE 3	LOUVERED	ALUMN.	#26 WHITE	YES	1'x1'	
SFG1	TITUS 300FL	SUPPLY FLOOR GRILLE	-	LOUVERED	ALUMN.	#26 WHITE	YES	-	
RAG1	TITUS TMS-AA	LAY-IN, ROUND NECK, SUPPLY DIFFUSER	TYPE 3	LOUVERED	ALUMN.	#26 WHITE	YES	2'x2'	
RFG1	TITUS 350FL	RETURN FLOOR GRILLE	-	LOUVERED	ALUMN.	#26 WHITE	YES	-	
L1	GREENHECK EAD-635	EXHAUST LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42X30	
L2	GREENHECK EAD-635	EXHAUST LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42X30	
L3	GREENHECK EAD-635	EXHAUST LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42X30	
L4	GREENHECK EAD-635	EXHAUST LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42X30	
L5	GREENHECK EAD-635	EXHAUST LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42X30	
L6	GREENHECK EAD-635	INTAKE LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42x42	
L7	GREENHECK EAD-635	INTAKE LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42x42	
L8	GREENHECK EAD-635	INTAKE LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42x42	
L9	GREENHECK EAD-635	INTAKE LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42x42	
L10	GREENHECK EAD-635	INTAKE LOUVER	-	LOUVERED	ALUMN.	MILL	NO	BIRD SCREEN, 120 VAC ACTUATOR, 1 YR WARRANTY, 42x42	

FAN PERFORMANCE DATA									
TAG	SERVICE	CFM	SONES	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
				RPM/HP	E.S.P.	VOLTAGE	MFR	MODEL	
EF-1	RESTROOMS	75	1.1	773/0.01	0.5	115/1/60	GREENHECK	SP-LP0511-1	1-6
EF-2	RESTROOMS	150	1.1	825/0.07	0.5	115/1/60	GREENHECK	CSP-A200	1-6
EF-3	RESTROOMS	150	1.1	825/0.07	0.5	115/1/60	GREENHECK	CSP-A200	1-6
EF-4	RESTROOMS	150	1.1	825/0.07	0.5	115/1/60	GREENHECK	CSP-A200	1-6
EF-5	RESTROOMS	75	1.1	773/0.01	0.5	115/1/60	GREENHECK	SP-LP0511-1	1-6
EF-6	RESTROOMS	150	1.1	825/0.07	0.5	115/1/60	GREENHECK	CSP-A200	1-6
EF-7	RESTROOMS	150	1.1	825/0.07	0.5	115/1/60	GREENHECK	CSP-A200	1-6
EF-8	OVENHOOD	600	12.9	1376/0.5	1.0	115/1/60	CAPTIVEAIRE	DU50HFA	1-7
EF-9	TRUCK BAY	2940	18.7	1725/1	0.5	115/1/60	GREENHECK	SQ-140	-
EF-10	TRUCK BAY	2940	18.7	1725/1	0.5	115/1/60	GREENHECK	SQ-140	-
EF-11	TRUCK BAY	2940	18.7	1725/1	0.5	115/1/60	GREENHECK	SQ-140	-
EF-12	TRUCK BAY	2940	18.7	1725/1	0.5	115/1/60	GREENHECK	SQ-140	-
EF-13	TRUCK BAY	2940	18.7	1725/1	0.5	115/1/60	GREENHECK	SQ-140	-
HVLS-1	TRUCK BAY	28600	-	142/0.75	-	208/1/60	GREENHECK	DS-6-8	8
HVLS-2	TRUCK BAY	28600	-	142/0.75	-	208/1/60	GREENHECK	DS-6-8	8
HVLS-3	TRUCK BAY	28600	-	142/0.75	-	208/1/60	GREENHECK	DS-6-8	8
HVLS-4	TRUCK BAY	28600	-	142/0.75	-	208/1/60	GREENHECK	DS-6-8	8

EQUIPMENT NOTES:
MFR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFR, MODEL AND PERFORMANCE DATA.

- INTEGRAL DISCONNECT
- VIBRATION ISOLATION KIT
- INTEGRAL BACKDRAFT KIT
- FAN SPEED CONTROL
- ALUMINUM CEILING GRILL
- INTERLOCK RESTROOM EXHAUST FANS WITH LIGHTING CIRCUIT
- CONNECT TO TIMECLOCK AND SET TO RUN DURING OCCUPIED HOURS.
- PROVIDE ON/OFF SWITCH ALSO INTERLOCK WITH BAY DOOR LIMIT SWITCH.

2021 MECHANICAL CODE VENTILATION SCHEDULE											
SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
RESTROOM	RESTROOM	365	-	-	-	-	-	-	-	75 CFM PER FIXTURE	825
CHIEF OFFICE	OFFICE	133	5	1	5	3	0.06	8	8	-	-
BUNKS	BEDROOM	598	10	6	5	30	0.06	36	36	-	-
CAPTAINS OFFICE	OFFICE	122	5	1	5	3	0.06	7	10	-	-
LOCKER ROOM	STORAGE	280	50	14	5	70	0.06	17	87	-	-
COORIDOR	COORIDOR	852	-	-	-	-	0.06	51	51	-	-
BREAK ROOM	BREAK ROOM	914	70	64	7.5	480	0.18	165	644	-	-
LAUNDRY	LAUNDRY	76	5	0	5	2	0.06	5	6	-	-
PANTRY	STORAGE	157	5	1	5	4	0.06	9	13	-	-
MEDICAL	PUBLIC	422	10	4	20	84	0.06	25	25	-	-
RADIO ROOM	PUBLIC	133	5	1	5	3	0.06	8	8	-	-
DECONTAMINATION	-	92	5	0	5	2	0.06	6	8	75 CFM PER FIXTURE	75
IT	OFFICE	35	4	0	5	1	0.06	2	2	-	-
WELLNESS	FITNESS	278	10	3	20	56	0.06	17	17	-	-
TRUCK BAY	TRUCK BAY	5271	-	-	-	-	-	-	-	-	26280
BUILDING TOTALS:		9728						916			27180

DEHUMIDIFIER SCHEDULE							
TAG	MFR. --- MODEL No.	CAPACITY @ 80°F/50% RH	ENERGY FACTOR @ 80°F/50% RH	AIRFLOW @ 0.2" W.C.	ELECTRICAL	CURRENT DRAW	ACCESSORIES/REMARKS
DHU-1	APRILAIRE E130	130 PPD	2.9 L/KW-H	270 CFM	120/1/60	7.7 A	INLET AIR OPERATING CONDITIONS DURING DEHUMIDIFICATION ARE 50°F-104°F, 40°F DEW POINT MINIMUM, INSTALL CONDENSATE PUMP
DHU-2	APRILAIRE E130	130 PPD	2.9 L/KW-H	270 CFM	120/1/60	7.7 A	INLET AIR OPERATING CONDITIONS DURING DEHUMIDIFICATION ARE 50°F-104°F, 40°F DEW POINT MINIMUM, INSTALL CONDENSATE PUMP
DHU-3	APRILAIRE E130	130 PPD	2.9 L/KW-H	270 CFM	120/1/60	7.7 A	INLET AIR OPERATING CONDITIONS DURING DEHUMIDIFICATION ARE 50°F-104°F, 40°F DEW POINT MINIMUM, INSTALL CONDENSATE PUMP

UNIT HEATER SCHEDULE							
TAG	MFR. --- MODEL	UNIT TYPE	CONFIGURATION MOUNTING/SIZE	INPUT HEATING, MBH	OUTPUT HEATING, MBH	ELECTRICAL	ACCESSORIES/REMARKS
UH-1	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL
UH-2	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL
UH-3	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL
UH-4	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL
UH-5	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL
UH-6	TRANE GTNE	UNIT HEAT	CEILING MOUNT	30	24.9	115/1/60	ALL

NOTES:
BRKT - MOUNTING BRACKET
STAT - INTEGRAL THERMOSTAT
SWFS - SUMMER/WINTER FAN SWITCH
TEMC - TEMPERATURE CONTROLS

AIR COMPRESSOR SCHEDULE							
TAG	MFR. --- MODEL No.	TANK SIZE (GAL)	CFM @ 90 PSI	MOTOR POWER	ELECTRICAL	AMPS	ACCESSORIES/REMARKS
AC-1	KOBALT QUIET TECH	26	4.5	1.8 HP	120/1/60	12	-

SPLIT SYSTEM HEAT PUMP SCHEDULE																										
TAG	TONS	TOTAL CFM	O.A. (CFM)	SEER	CLG CAPACITY				HTG CAPACITY				INDOOR UNIT						OUTDOOR UNIT						REFRIGERANT	NOTES
					TOTAL MBH	SENS MBH	CAPACITY KW	AUX. HEAT KW	MFR & MODEL (BASIS OF DESIGN)	VOLT PHASE	HP	E.S.P.	# OF CIRCUITS	MCA	MOCP	WEIGHT (LBS)	MFR & MODEL (BASIS OF DESIGN)	VOLT PHASE	COMP. RL-LR	FAN FLA (AMPS)	MCA	MOCP	WEIGHT (LBS)			
AHU-1	HP-1	7.5	3000	400	11.2	101.00	75.56	24.63	24.94	TRANE TWE090K3BAA**	208/3	1.21	0.5	2	74	80	373	TRANE TWA090K3DAA**	208/3	13.80(2)	2.3	35	45	421	R-454B	1-9
AHU-2	HP-2	5	1925	310	11.2	55.9	42.1	36.6	10.80	TRANE 5TEM4D07ACS1	208/1	0.75	0.5	2	51/22	60/25	174	TRANE 5TWR4080A1	208/1	22.3/136.6	2.8	33	50	251	R-454B	1-9
AHU-3	HP-3	7.5	3000	400	11.2	101.00	75.56	24.63	24.94	TRANE TWE090K3BAA**	208/3	1.21	0.5	2	74	80	373	TRANE TWA090K3DAA**	208/3	13.80(2)	2.3	35	45	421	R-454B	1-9

NOTES:
1. 410A REFRIGERANT.
2. FURNISH THERMOSTAT CONFIGURED FOR REMOTE BULB SENSOR AT AHU RETURN PLENUM.
3. FURNISH WITH LOW AMBIENT CONTROLS.
4. FURNISH WITH ANTI-SHORT CYCLE TIMER.
5. FURNISH WITH EVAPORATOR DEFROST CONTROL.
6. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.
7. FASTEN OUTDOOR UNITS TO HOUSEKEEPING PAD.
8. FURNISH NEW MERV 11 FILTERS AT OWNER OCCUPANCY.
9. FURNISH WITH RA SMOKE DETECTORS, CONNECT TO A AUDIBLE AND VISUAL REMOTE NOTIFICATION DEVICE.

New Fire Station #19
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ADDENDUM 2 REVISIONS

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M101

MECHANICAL SCHEDULES AND NOTES

JOB #: FD24020

DATE: 2/28/2025

REVISIONS

SHEET NOTES:

- THIS DRAWING IS DIAGRAMMATICAL. COORDINATE ALL DUCT SIZES, TURNS, DROPS AND LOCATIONS WITH EXISTING CONDITIONS TO ENSURE NO CONFLICTS. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF SPLIT UNITS PRIOR TO BID. THIS CONTRACTOR TO ENSURE THE EXISTING STRUCTURAL MEMBERS CAN SUPPORT THE NEW LOAD. NOTIFY OWNER/ARCHITECT IF MODIFICATIONS ARE REQUIRED. A SITE VISIT SHALL BE PERFORMED PRIOR TO BID. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO MAKE ANY NECESSARY DESIGN CHANGES. IF ANY, THESE APPLICABLE CHANGES SHALL BE INCLUDED IN THE ORIGINAL BID PRICE. ANY CHANGE ORDERS BROUGHT UP AFTER THE ACCEPTED BID THAT DIRECTLY RELATED TO FAILURE OF A SITE VISIT SHALL BE SOLELY THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THE OWNER WILL NOT PAY FOR CHANGE ORDERS DUE TO THE CONTRACTOR'S FAILURE TO PERFORM A THROUGH SITE VISIT. COORDINATE WITH ALL TRADES, FIELD VERIFY ALL EXISTING CONDITIONS.
- ENSURE ALL EXHAUST AND SANITARY VENTS ARE A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKES.
- PROVIDE REMOTE TEMPERATURE SENSOR IN RETURN DUCT OF AHU-1, AHU-2, & AHU-3. LOCATE TEMPERATURE CONTROLS AS SHOWN ON DRAWINGS.

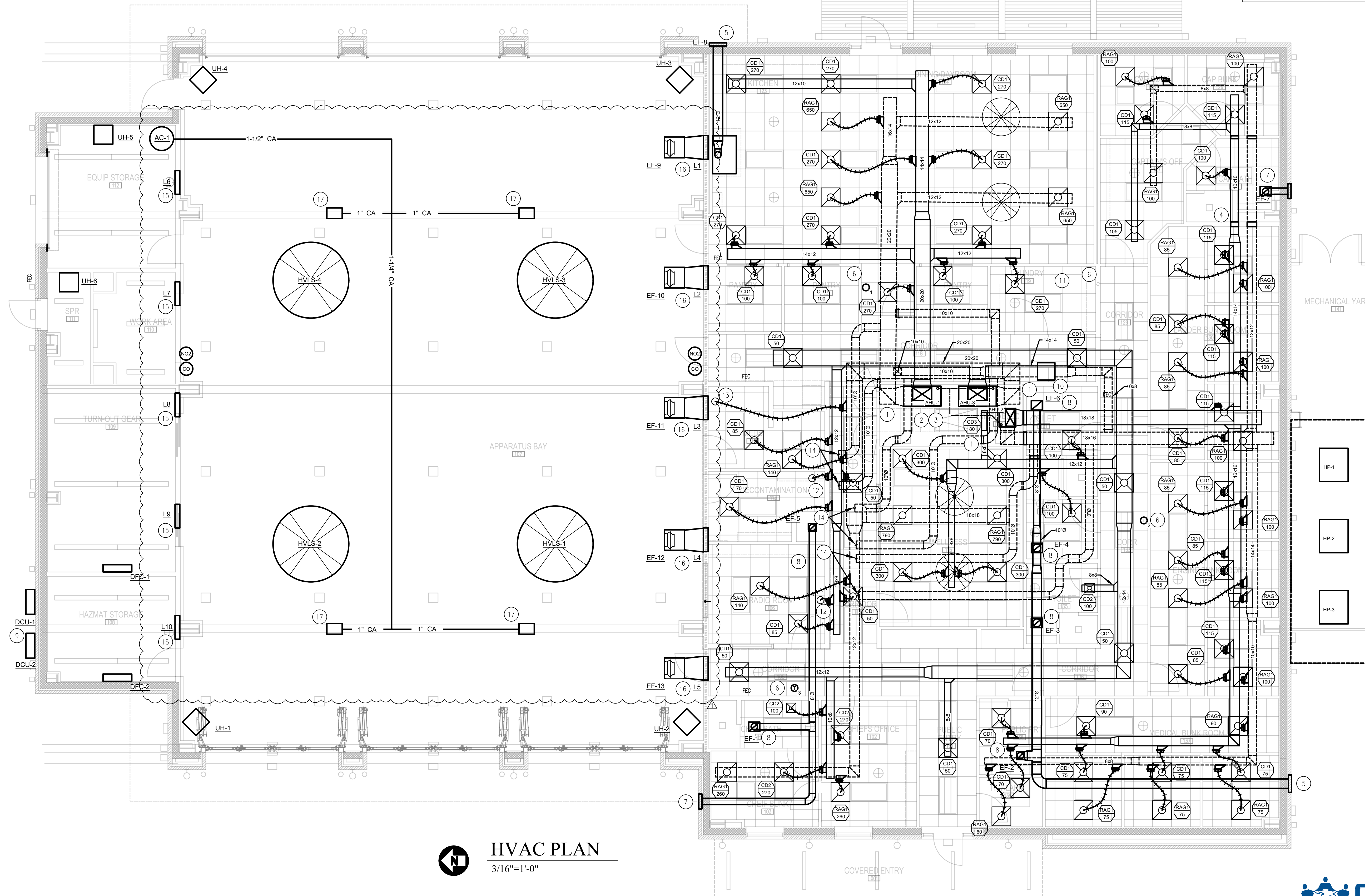
KEYED NOTES:

- INSTALL REMOTE TEMPERATURE SENSOR IN RETURN DUCT.
- MOUNT AHU ON RETURN PLENUM BOX, CONNECT RETURN TO DUCT TO PLENUM.
- ROUTE CONDENSATE LINE TO FLOOR DRAIN LOCATED IN THE MECHANICAL ROOM.
- PROVIDE UL 55S DYNAMIC FIRE DAMPER, SIZED PER DUCTWORK.
- 12"Ø KITCHEN EXHAUST TO EF-8. EXPOSED DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL. TRUNK DUCT SHALL RUN ABOVE CEILING AND BE CONSTRUCTED OF GALV. STEEL. COORDINATE EXACT DUCT LOCATION WITH ARCHITECT AND KITCHEN EQUIPMENT SUPPLIER.
- THERMOSTAT/HUMIDISTAT TO BE MOUNTED 54" AFF.
- 8"Ø EXHAUST DUCT TO GRSI-8 WALL CAP. ALL DUCT SHALL BE RAN ABOVE THE CEILING AND BE CONSTRUCTED OF GALVANIZED STEEL. COORDINATE EXACT DUCT LOCATION WITH ARCHITECT.
- 8"Ø EXHAUST DUCT TO TIE INTO 10"Ø DUCT. ALL DUCT SHALL BE RAN ABOVE THE CEILING AND BE CONSTRUCTED OF GALVANIZED STEEL. COORDINATE EXACT DUCT LOCATION WITH ARCHITECT.
- MINI-SPLIT TO BE SUPPORTED AND BRACED ON WALL.
- 14x14 OUTSIDE AIR DUCT TO GRSI-12 ROOF CAP. ALL DUCT SHALL BE RAN ABOVE THE CEILING AND BE CONSTRUCTED OF GALVANIZED STEEL. COORDINATE EXACT DUCT LOCATION WITH ARCHITECT.
- DRYER VENT THROUGH WALL, TO GO VERTICAL TO ROOF. PENETRATE ROOF WITH A DRYER ROOF CAP AND PROVIDE ALL REQUIRED ACCESSORIES TO ENSURE A LEAK-FREE INSTALLATION. ENSURE THAT ALL ASPECTS OF THE DRYER VENT INSTALLATION ARE COMPLIANT WITH SECTION 504 OF THE 2021 INTERNATIONAL MECHANICAL CODE.
- ROUTE SUPPLY DUCT UP TO FLOOR SUPPLY GRILLE IN MEZZANINE.
- ROUTE RETURN DUCT UP TO FLOOR RETURN GRILLE IN MEZZANINE.
- ROUTE DUCT FROM DEHUMIDIFIER LOCATED IN MEZZANINE TO RETURN DUCT IN LEVEL 1 CEILING SPACE.
- MOUNT INTAKE AIR LOUVER AT 16'-4" A.F.F.
- MOUNT EXHAUST AIR LOUVER AT 22'-3" A.F.F.
- RETRACTABLE AIR HOSE REEL

FLEX DUCT SCHEDULE

AIRFLOW	SIZE
0-90 CFM	6"Ø
100-140 CFM	7"Ø
150-200 CFM	8"Ø
205-260 CFM	9"Ø
265-360 CFM	10"Ø
365-550 CFM	12"Ø

NOTE: PROVIDE FLEX DUCT TAKE-OFFS WITH AIR SCOOP AND BALANCING DAMPER AT ALL ROUND SA BRANCH DUCTS. FLEX DUCTS SHALL BE EQUAL TO TITUS FLEX DUCT TYPE T-26. MAXIMUM FLEX DUCT SHALL BE 8'-0". PROVIDE EQUAL SIZE HARD DUCT RUNOUTS FOR TAKEOFFS OVER 8'-0" LONG. EXTERNALLY INSULATE ROUND HARD DUCTS WITH 2" THICK, 3/4# DUCT WRAP WITH FOIL FACING.



HVAC PLAN
3/16"=1'-0"

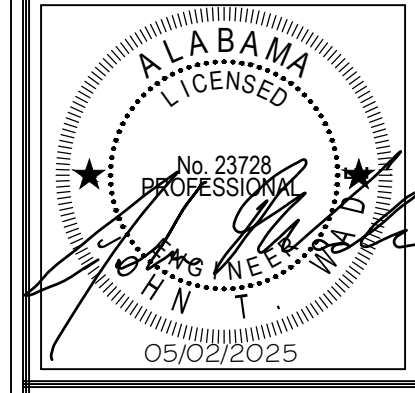
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REVISIONS

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M200
MECHANICAL PLAN



PLUMBING GENERAL NOTES:

SCOPE: THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF PLUMBING WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK.

CODES & STANDARDS: BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

PLUMBING CODE COMPLIANCE: COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL PLUMBING CODE AND ALL LOCAL ORDINANCES IN THE PERFORMANCE OF PLUMBING WORK REQUIRED FOR THIS PROJECT.

COORDINATION: COORDINATE THE PLUMBING WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK.

CUTTING & PATCHING: PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING AND OTHER PLUMBING WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. FINAL PATCH AND FINISHES WILL BE APPLIED BY THE GENERAL CONTRACTOR.

MATERIALS, EQUIPMENT, AND SUBMITTALS: PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE, SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.

SUBSTITUTIONS: THE MANUFACTURER AND MODEL OF EQUIPMENT ARE INDICATED ONLY TO ESTABLISH A BASIS OF DESIGN. SUBMITTALS FOR EQUIPMENT OF OTHER MANUFACTURERS WILL BE CONSIDERED IF SPATIAL AND PERFORMANCE REQUIREMENTS ARE MET. BIDDERS MAY REQUEST "PRIOR REVIEW" FROM THE ENGINEER UP TO 3 DAYS PRIOR TO THE BID DATE TO ENSURE THE ACCEPTABILITY OF PROPOSED SUBSTITUTIONS.

GAS PIPING: PROVIDE GAS PIPING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54, USING SCHEDULE 40 BLACK PIPE (ASTM A-53/120) PROVIDE MALLEABLE IRON THREADED FITTING UP TO 2" PIPE SIZE AND WROUGHT STEEL FITTINGS 2 1/2" PIPE SIZE AND OVER. PROVIDE "DURATHANE" ASTM D-2513 THERMOPLASTIC GAS PRESSURE PIPE FOR UNDERGROUND DISTRIBUTION. PROVIDE APPROPRIATE SUPPORTS AND ANCHORS, SQUARE HEAD GAS COCKS, AND PRESSURE REGULATORS WHERE INDICATED OR NECESSARY. EXTEND THE VENT FROM ALL PRESSURE REGULATORS TO OUTSIDE THE BUILDING, INDIVIDUALLY AND AT THE FULL SIZE OF THE REGULATOR VENT CONNECTION SIZE.

GAS VENTING: PROVIDE GAS VENTING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54. GENERALLY PROVIDE: METALBESTOS "DF", OR EQUAL, TYPE B GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR ATMOSPHERIC BURNERS; METALBESTOS "PS", OR EQUAL, POSITIVE PRESSURE GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR POWER BURNER SYSTEMS. WHERE THE MANUFACTURER OF GAS-BURNING APPLIANCES RECOMMENDS THE USE OF MATERIALS OTHER THAN THOSE SPECIFIED HEREIN, THE CONTRACTOR MAY IMPLEMENT SUCH RECOMMENDATIONS IF THE MATERIALS AND DESIGN ARE SUITABLE TO THE APPLICATION AND COMPLY WITH BUILDING CODE REQUIREMENTS.

WATER DISTRIBUTION PIPING: PROVIDE DOMESTIC COLD WATER, HOT WATER, HOT WATER RETURN AND OTHER INDICATED WATER DISTRIBUTION PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS, OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.

DRAINAGE PIPING: PROVIDE DRAIN, WASTE, VENT AND OTHER INDICATED DRAINAGE PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS, OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.

UTILITY TAPS: THE PLUMBING CONTRACTOR SHALL COORDINATE SEWER AND WATER TAPS WITH THE LOCAL UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY TAP FEES.

PIPING INSULATION: PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET (ASTM C-547, C-921, TYPE I OR II AS APPROPRIATE FOR TEMPERATURE) ON ALL COLD WATER, HOT WATER, HOT RETURN AND COLD DRAINAGE PIPING AS WELL AS ROOF DRAIN LEADERS TO 5'-0" FROM ROOF DRAIN. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PROVIDE PRE-MOLDED PVC COVERS AT ALL FITTINGS, JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS. (SEE FLOOR PLANS FOR INSULATION REQUIREMENTS AT SPECIAL SYSTEMS.)

INSTRUMENTATION: PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS AT EACH ITEM OF HEAT TRANSFER EQUIPMENT (WATER HEATER, WATER CHILLER, HOT WATER GENERATOR, ETC.) AND PRESSURE GAUGES WITH GAUGE COCKS AND SNUBBERS, AT ITEM OF HEAT TRANSFER EQUIPMENT AND EACH PRIME MOVER (PUMP, ETC.).

IDENTIFICATION: PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (PIPING SYSTEMS), PROVIDE ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT, "SNAP-ON" PIPE MARKERS FOR PIPING, AND ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE FRAMED UNDER GLASS.

CONTROLS: PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF PLUMBING EQUIPMENT CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION.

CONTRACT CLOSEOUT: PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE PLUMBING PORTION OF THE PROJECT.

WARRANTY: THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE COMMISSIONING ACCEPTANCE DATE.

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	MOUNTING	RIM HT.	MFR.	MODEL NO.	MATERIAL	FINISH	CW	HW	TRAP	DRAIN	VENT	TRIM / REMARKS
WC-1	ADA FLUSH VALVE WATER CLOSET	WALL	15"	KOHLER	K-4325 "KINGSTON"	VITREOUS CHINA	WHITE	1"	-	3"	4"	2"	K-4731 SEAT, K-10956 1.28 GPF AUTOMATIC FLUSH VALVE, JOSAM SERIES 12000 ADJUSTABLE CARRIER INSTALLED TO MEET DESIGN REQUIREMENTS
L-1	ADA LAVATORY	DROP-IN	SEE ARCH. DWGS.	KOHLER	K-2196-4 'PENNINGTON'	VITREOUS CHINA	WHITE	3/8"	1/2"	1 1/2"	1 1/2"	1 1/4"	K-7605-P SUPPLIES, K-8998 P-TRAP, K-15241-4RA FAUCET & GRID DRAIN
MS-1	MOP SINK	24" X 24" CORNER SINK FLOOR MOUNT	12"	FIAT PRODUCTS	TSBC6010	TERRAZZO	GREY	1/2"	1/2"	3"	3"	1 1/2"	T&S BRASS #B-0695-ST FAUCET w/ VB @ 90° AFF, 830AA MOP SERVICE BASIN FITTING, 832AA HOSE & HOSE BRACKET, 833AA SILICONE SEALANT, MSG WALL GUARDS.
SH-1	SHOWER	WALL	SEE ARCH. DWG.	KOHLER	K-965-AK	-	POLISHED CHROME	1/2"	1/2"	2"	2"	1 1/2"	CUSTOM CONSTRUCTION SHOWER MODULE. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. PROVIDE SYMONS 1-100 SAFETY MIX PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD. PROVIDE KOHLER 933-CP WALL-MOUNTED ARM AND FLANGE.
HS-1	HAND SINK	DROP-IN	SEE ARCH. DWG.	ELKAY	BLR-150C	#302 STAINLESS STEEL	SATIN	1/2"	1/2"	1 1/2"	1 1/2"	1 1/4"	SINK PACKAGE INCLUDES: LKA-2223 CENTERSET FAUCET, LK-36 BASKET STRAINER
SK-1	1 POT SINK	DROP-IN	SEE ARCH. DWG.	ELKAY	DLR-1722-10	#302 STAINLESS STEEL	SATIN	1/2"	1/2"	1 1/2"	1 1/2"	1 1/4"	LK-2432 FAUCET, LK-18 OPEN GRID STRAINER
SK-2	2 POT SINK	DROP-IN	SEE ARCH. DWG.	ELKAY	DLR-3322-10	#302 STAINLESS STEEL	SATIN	1/2"	1/2"	2"	1 1/2"	1 1/4"	2-COMP, 18 GAUGE STAINLESS STEEL SINK WITH SINGLE LEVER FAUCET WITH HAND SPRAY ASSEMBLY, BASKET STRAINERS, 2" P-TRAP, FLEXIBLE SUPPLIES WITH STOPS, AND 3/4" HP GARBAGE DISPOSAL.
UB-1	LAUNDRY UTILITY BOX	WALL	3'-8"	GUY GRAY	T200	STEEL	WHITE ENAMEL	1/2"	1/2"	2"	2"	1 1/2"	MOUNTING HEIGHT MAY BE ADJUSTED TO SUIT FIELD CONDITIONS
UB-2	ICE MAKER	FLOOR	SEE ARCH. DWG.	INDIGO	IF0500N	#302 STAINLESS STEEL	-	3/8"	-	-	3/4"	-	SEE SPEC SHEET PROVIDED BY VENDOR.
UB-3	COFFEE MACHINE	COUNTER	SEE ARCH. DWG.	-	-	-	-	1/2"	-	-	-	-	SEE SPEC SHEET PROVIDED BY VENDOR.
DF-1	ADA DRINKING FOUNTAIN - DBL	WALL	33.5" / 39.5"	ELKAY	LZSTL8WSLK	#302 STAINLESS STEEL	LIGHT GRAY GRANITE	2@ 3/8"	-	1 1/2"	2@ 1 1/2"	2@ 1 1/4"	DUAL HEIGHT UNIT, MPW200 CARRIER, ML100 SUPPORT COLUMNS, PROVIDE WITH SERVICE STOP, MP20 MOUNTING PLATE, AND WALL PLATE, BOTTLE FILLER
FD-1	FLOOR DRAIN FINISHED AREAS	FLOOR	-	JOSAM	3000n-A	COATED CAST IRON	NIKALOY SATIN	-	-	-	3"	-	6" TOP, 1/2" TRAP PRIMER TAP
FS-1	SANITARY FLOOR SINK	FLOOR	-	JOSAM	4902n-A	COATED CAST IRON	NIKALOY SATIN	-	-	-	3"	-	12" TOP, 3/4 GRATE, ALUM. SEDIMENT BUCKET
HB-1	HOSE BIB	WALL	SEE ARCH. DWG.	ZURN	Z-1320	-	-	3/4"	3/4"	-	-	-	ECOLOTRON WALL HYDRANT WITH CERAMIC DISC, ENCASED, NON-FREEZE, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER W/ OPERATING KEY LOCK AND "WATER" STAMPED ON COVER. ALL BRONZE INTERIOR PARTS.
FCO	FLOOR CLEANOUT	FLOOR	-	JOSAM	5700(*)	COATED CAST IRON	NIKALOY SATIN	-	-	-	-	-	* SIZE TO PIPE, 3" MIN.
ECO	EXTERIOR CLEANOUT	FLOOR	-	JOSAM	5700(*)	COATED CAST IRON	NIKALOY SATIN	-	-	-	-	-	* SIZE TO PIPE, 3" MIN.
WCO	WALL CLEANOUT	WALL	-	JOSAM	5854(*)	STAINLESS STEEL	POLISHED BRONZE	-	-	-	-	-	* SIZE TO PIPE, 3" MIN.

WATER HEATER SCHEDULE

TAG	TYPE	FUEL	MFR.	MODEL	STORAGE GALLONS	INPUT	GPM FLOW @67°F RISE	ELECTRICAL	ACCESSORIES / REMARKS
WH-1	TANKLESS	GAS	NAVIENT	NHW700-199AE	-	199.9 BTU	5.0	120/1/60	NAVIENT TANKLESS WATER HEATER, 199.9 BTU, TEMPERATURE AND PRESSURE RELIEF VALVE SET AT 120°F, EXTERIOR RATED, BUILT IN RECIRC. PUMP, WATER HEATER REMOTE CONTROL, INSTALLED IN CORRIDOR.
WH-2	TANKLESS	GAS	NAVIENT	NHW700-199AE	-	199.9 BTU	5.0	120/1/60	NAVIENT TANKLESS WATER HEATER, 199.9 BTU, TEMPERATURE AND PRESSURE RELIEF VALVE SET AT 120°F, EXTERIOR RATED, BUILT IN RECIRC. PUMP, WATER HEATER REMOTE CONTROL, INSTALLED IN CORRIDOR.
WH-3	TANKLESS	GAS	NAVIENT	NHW700-199AE	-	199.9 BTU	5.0	120/1/60	NAVIENT TANKLESS WATER HEATER, 199.9 BTU, TEMPERATURE AND PRESSURE RELIEF VALVE SET AT 120°F, EXTERIOR RATED, BUILT IN RECIRC. PUMP, WATER HEATER REMOTE CONTROL, INSTALLED IN CORRIDOR.

NEW WORK	PLUMBING LEGEND	
—CW—	DOMESTIC COLD WATER	—○— PIPE ELBOW UP
—HW—	DOMESTIC HOT WATER	—○— PIPE ELBOW DOWN
—S—	SANITARY	—◇— GATE VALVE
—GW—	GREASE WASTE	—◇— CHECK VALVE
—V—	VENT	—◇— FLOOR DRAIN
⊕	WATER HEATER REMOTE CONTROL	—◇— FLOOR CLEANOUT
⊕		—◇— WALL CLEANOUT
⊕		—◇— VENT THROUGH WALL (INCREASER AS REQ.)
⊕		—◇— HOSE BIB

WATER SUPPLY SIZING WORKSHEET

FIXTURE OR GROUP TYPE	OCCUPANCY	CONTROL	W.S.F.U.	QUANTITY	S/T DEMAND
WATER CLOSET	PUBLIC	FLUSH VALVE	10	6	60
SHOWER	PUBLIC	MIXING VALVE	4	6	24
LAVATORY	PUBLIC	FAUCET	2	6	12
SINK, MOP	SERVICE	FAUCET	2.25	2	4.5
SINK, 1-COMP	PUBLIC	FAUCET	1.5	1	1.5
SINK, 2-COMP	PUBLIC	FAUCET	1.5	1	1.5
SINK, HAND	PUBLIC	FAUCET	1.5	1	1.5
WASHING MACHINE	PUBLIC	AUTOMATIC	4	1	4
HOSE BIB	PUBLIC	VALVE	2.5	10	25
DRINKING FOUNTAIN	PUBLIC	FAUCET	0.25	1	0.25

SUM OF W.S.F.U.	134.25 W.S.F.U.
CONVERT TO G.P.M. (PREDOM. FLUSH VALVE)	77 GPM
BUILDING WATER SERVICE SIZE	2"

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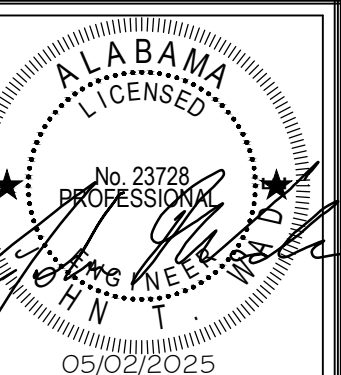


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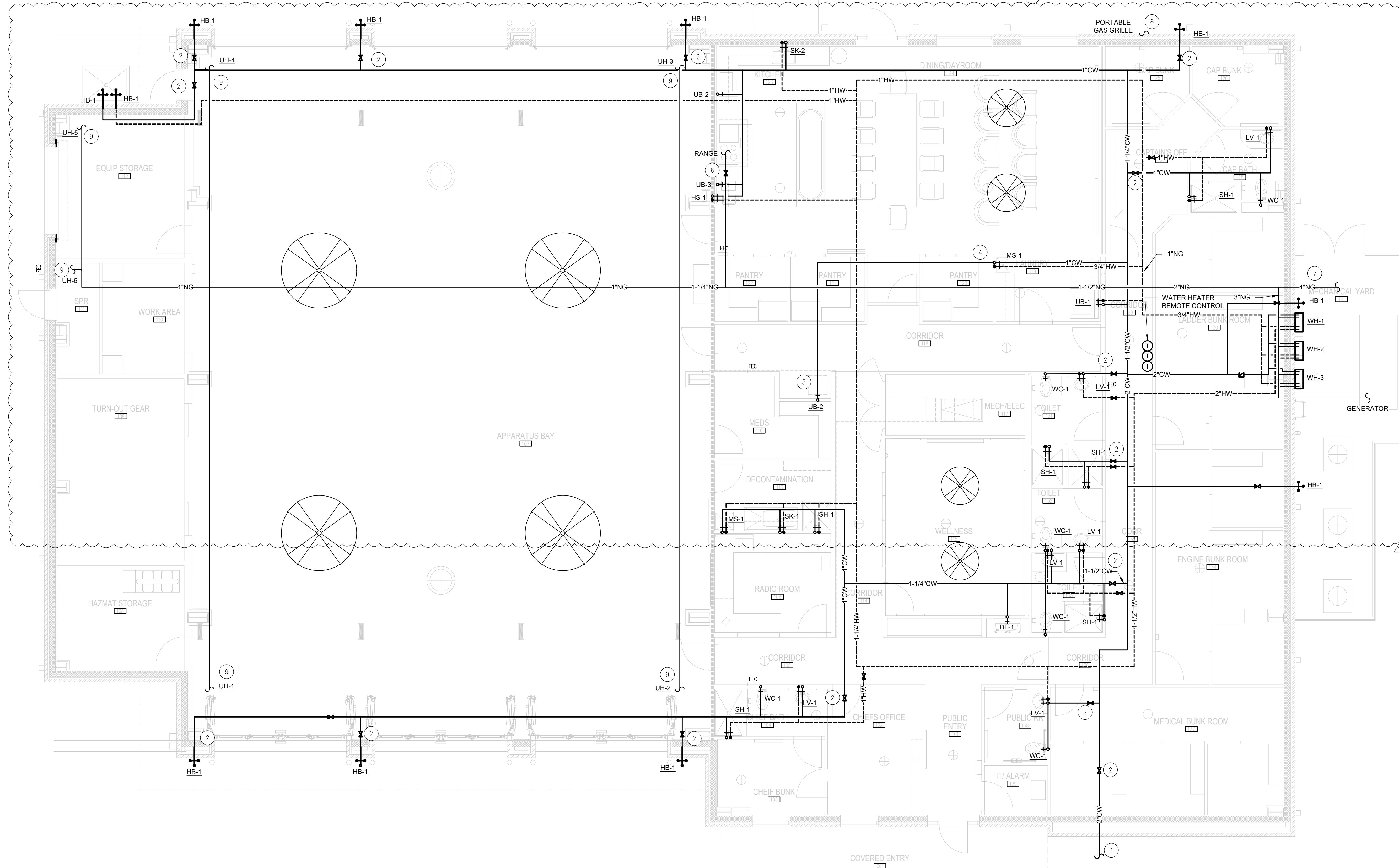
PLUMBING SCHEDULES AND NOTES

SHEET NOTES:

- CONTRACTOR TO COORDINATE WITH LOCAL GAS COMPANY TO SCHEDULE AND COORDINATE NEW GAS METER/SERVICE FOR THE REQUIRED LOAD. THIS CONTRACTOR SHALL ALSO PROVIDE ANY NECESSARY REGULATORS AND MAKE ALL FINAL CONNECTIONS TO THE NEW GAS METER. THE ENTIRE SYSTEM SHALL BE OPERABLE BY THIS CONTRACTOR. ALL EXPOSED GAS PIPE TO BE PAINTED TO MATCH THE EXTERIOR BUILDING COLOR. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OWNER/ALL OTHER TRADES PRIOR TO ANY PHASE OF INSTALLATION. THIS CONTRACTOR SHALL PAY ALL APPLICABLE FEES.
- THIS CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS, ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE DEVICE.
- PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAIN PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" ARMAFLEX PIPE INSULATION.
- PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER. THIS INCLUDES THE ICE MACHINE / WATER FILTER. VACUUM BREAKERS TO BE FULL-SIZED.
- PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING. PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" ARMAFLEX PIPE INSULATION. ALL PLUMBING FIXTURES SHALL BE WHITE.
- PROVIDE A PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 80 PSI. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE IF REQUIRED.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE.
- PROVIDE ASSE 1070 COMPLIANT TEMPERING VALVE SET AT 110°F UNDER ALL HAND SINKS AND SINGLE COMPARTMENT BAR SINKS.

KEYED NOTES:

- CONNECT TO EXISTING DOMESTIC WATER LINE; FIELD VERIFY EXACT LOCATION.
- FULL SIZE ISOLATION BACK FLOW PREVENTION VALVE (WATTS MODEL 007 OR APPROVED EQUAL) IN CEILING SPACE. VALVE TO BE SIZED PER THE WATER LINE IT IS INSTALLED ON.
- FULL SIZE CHECK VALVES TO BE INSTALLED.
- 3/4" CW & HW LINE TO BE ROUTED IN WALL TO MS-1.
- 3/4" CW PIPE ROUTED TO ICE MACHINE.
- FULL-SIZED EMERGENCY SHUTOFF SOLENOID VALVE, INTERLOCKED TO HOOD SUPPRESSION SYSTEM. LOCATE VALVE IN VERTICAL DROP, PRIOR TO COOKLINE MANIFOLD.
- PROVIDE NEW 4" GAS LINE. TIE INTO NEW METER. FIELD VERIFY EXACT LOCATION OF METER WITH SITE PLAN.
- 1" NG CONNECTION FOR PORTABLE GAS GRILLE.
- 3/4" NG CONNECTION TO HEATER.



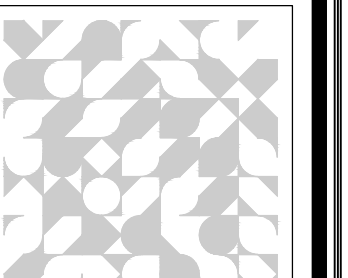
PLUMBING PLAN - DOMESTIC WATER

3/16"=1'-0"



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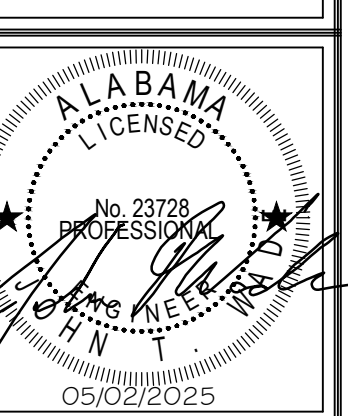
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PLUMBING PLAN

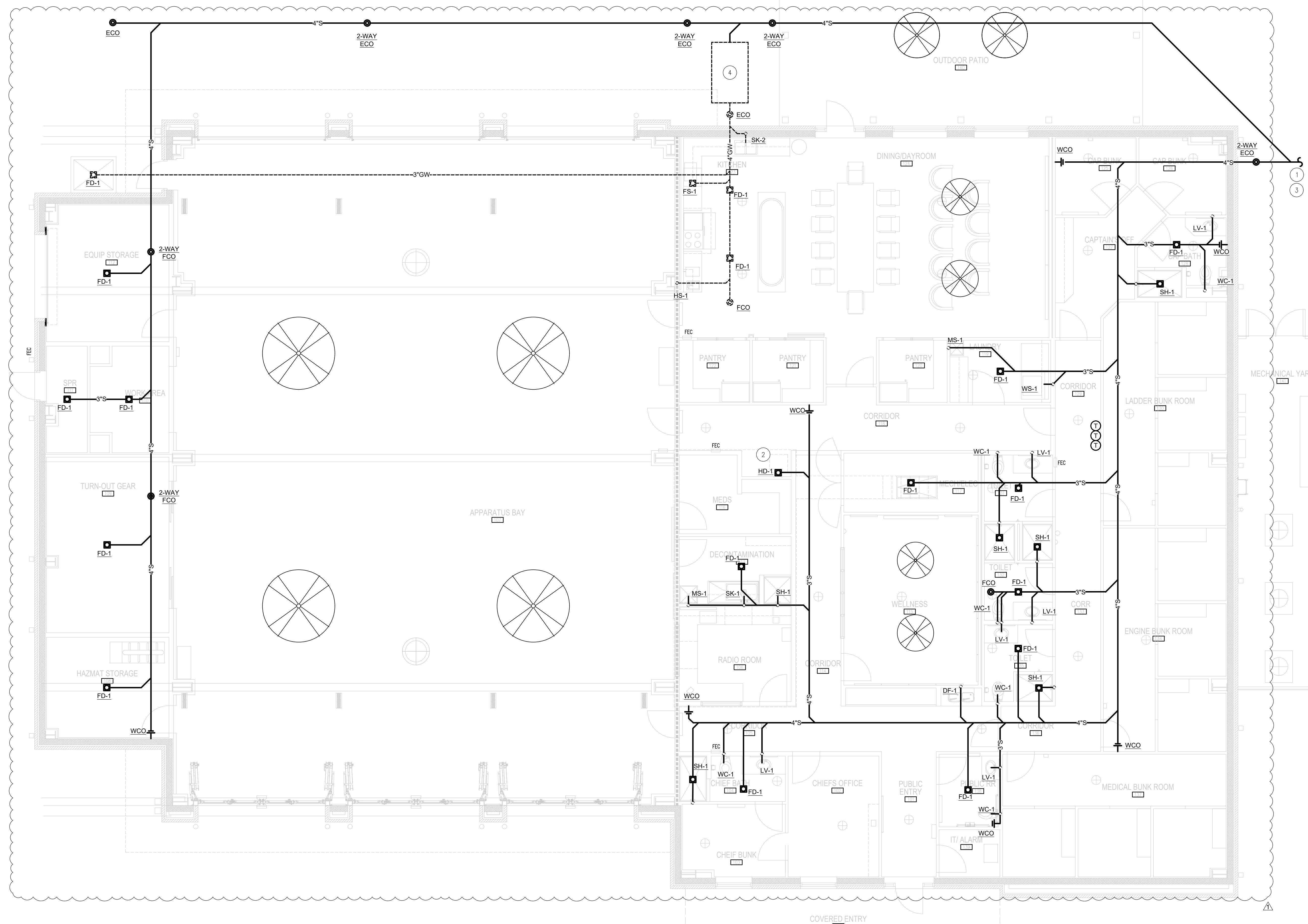
SHEET NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, DEPTH, FLOW DIRECTION, ALL EXISTING INVERTS AND CONDITION OF EXISTING LINES PRIOR TO BID. THIS CONTRACTOR TO ENSURE THE EXISTING WASTE LINES ARE IN GOOD WORKING CONDITION (MEETS ALL APPLICABLE LOCAL CODES) AND FULLY FUNCTIONAL WITH CORRECT FALL / FLOW AND NO OBSTRUCTIONS. A SITE VISIT SHALL BE PERFORMED PRIOR TO BID. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO MAKE ANY NECESSARY DESIGN CHANGES. IF ANY, THESE APPLICABLE CHANGES SHALL BE INCLUDED IN THE ORIGINAL BID PRICE. ANY CHANGE ORDERS BROUGHT UP AFTER THE ACCEPTED BID THAT DIRECTLY RELATED TO FAILURE OF A SITE VISIT SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE OWNER WILL NOT PAY FOR CHANGE ORDERS DUE TO THE CONTRACTORS FAILURE TO PERFORM A THROUGH SITE VISIT. COORDINATE WITH ALL TRADES, FIELD VERIFY ALL EXISTING CONDITIONS.

- ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE ASSUMED TO BE CORRECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY ALL UNDERGROUND UTILITIES.
- KEEP ALL CUTTING AND PATCHING TO A MINIMUM.
- IT IS RECOMMENDED THAT THE SUBCONTRACTOR ARRANGE A PRE-JOB CONFERENCE WITH THE CONSTRUCTION SUPERVISOR FOR REVIEW AND CLARIFICATION PRIOR TO STARTING ANY WORK.
- COORDINATE ROOF VENT LOCATIONS TO ENSURE NO VENT IS TERMINATED WITHIN 10'-0" OF HVAC OUTSIDE AIR INTAKE.

KEYED NOTES:

- TIE INTO EXISTING 4" SANITARY; SEE CIVIL EXISTING DRAWINGS FOR FURTHER DETAILS.
- 3" SANITARY LINE FROM HUB DRAIN FOR ICE MACHINE TO BE ROUTED TO 4" SANITARY LINE.
- CONNECT TO UNDERGROUND PIPING 5' OUTSIDE OF BUILDING FOOT PRINT. COORDINATE CONNECTION AND DEPTH OF COVER WITH CIVIL.
- CONNECT 4" GREASE LINE TO A MINIMUM 1000 GALLON CONCRETE GREASE TRAP.



SANITARY PLAN - WASTE AND VENT
3/16"=1'-0"

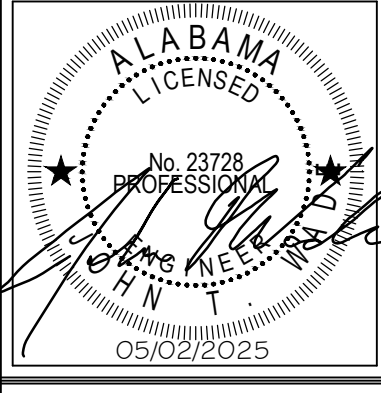


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P201
SANITARY PLAN

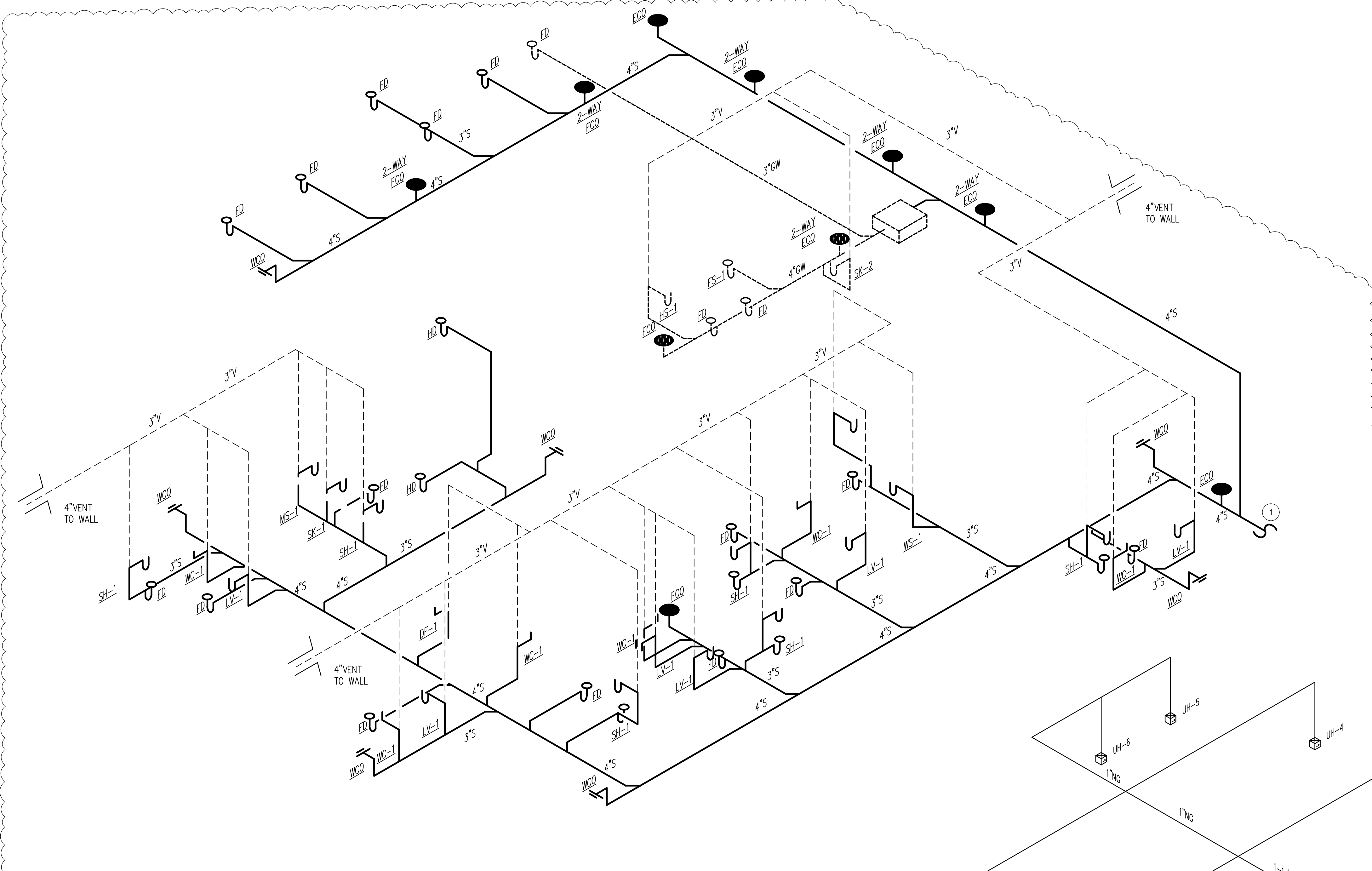
KEYED NOTES:

- 1 NEW 4" SANITARY STUB, CONTRACTOR TO VERIFY LOCATION, SIZE, AND DEPTH.
- 2 CONTRACTOR TO COORDINATE WITH LOCAL GAS PROVIDER ON GAS METER/SERVICE FOR THE NEW REQUIRED LOAD. THE ENTIRE SYSTEM SHALL BE OPERABLE BY THIS CONTRACTOR. ALL EXPOSED GAS PIPE TO BE PAINTED TO MATCH EXTERIOR BUILDING COLOR. COORDINATE WITH OWNER/LANDLORD. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OWNER/ALL TRADES PRIOR TO INSTALLATION. THIS CONTRACTOR SHALL PAY ALL APPLICABLE FEES.

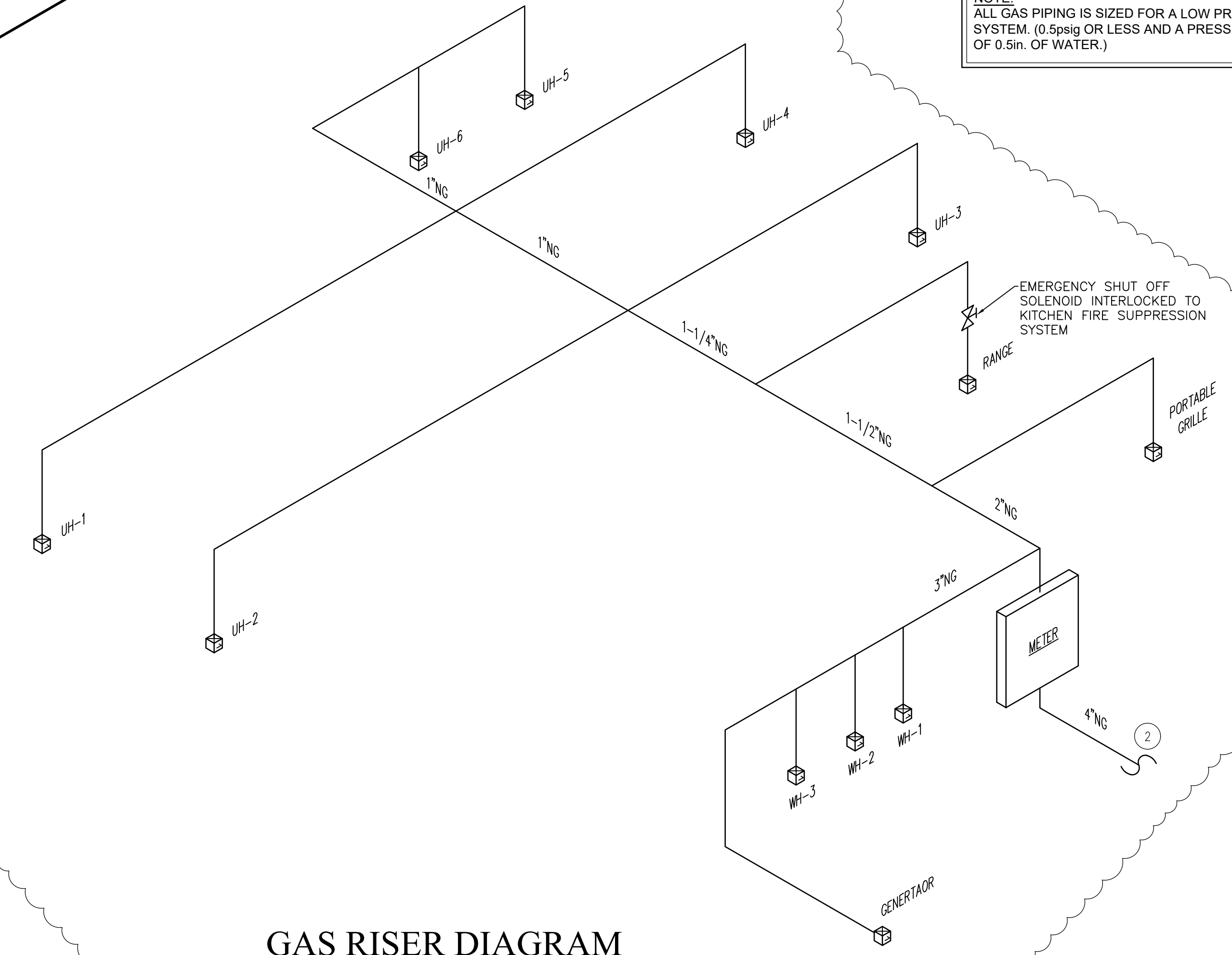
EQUIPMENT	BTUH INPUT
WH-1	199,900
WH-2	199,900
WH-3	199,900
OVEN/RANGE	195,000
PORTABLE GAS GRILLE	195,000
FIXED GENERATOR	2,983,000
UH-1	30,000
UH-2	30,000
UH-3	30,000
UH-4	30,000
UH-5	30,000
UH-6	30,000
TOTAL USAGE	4,152,700
APPROX. DISTANCE FROM REGULATOR TO FARTHEST TAKE OFF 150'	
GAS TYPE: NATURAL GAS	

NOTE:
ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH A YELLOW EPOXY PAINT. ALSO, PROVIDE LABELS "GAS" AND "OPERATING PRESSURE". TYPICAL ENTIRE JOB, ALL AREAS, INSIDE AND EXTERIOR.

NOTE:
ALL GAS PIPING IS SIZED FOR A LOW PRESSURE SYSTEM, (0.5psig OR LESS AND A PRESSURE DROP OF 0.5in. OF WATER.)



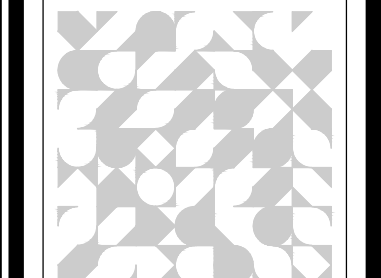
SANITARY RISER DIAGRAM
N.T.S.



GAS RISER DIAGRAM
N.T.S.

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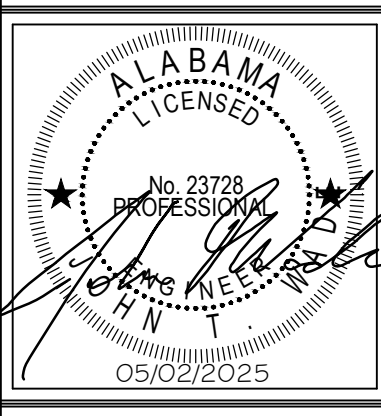


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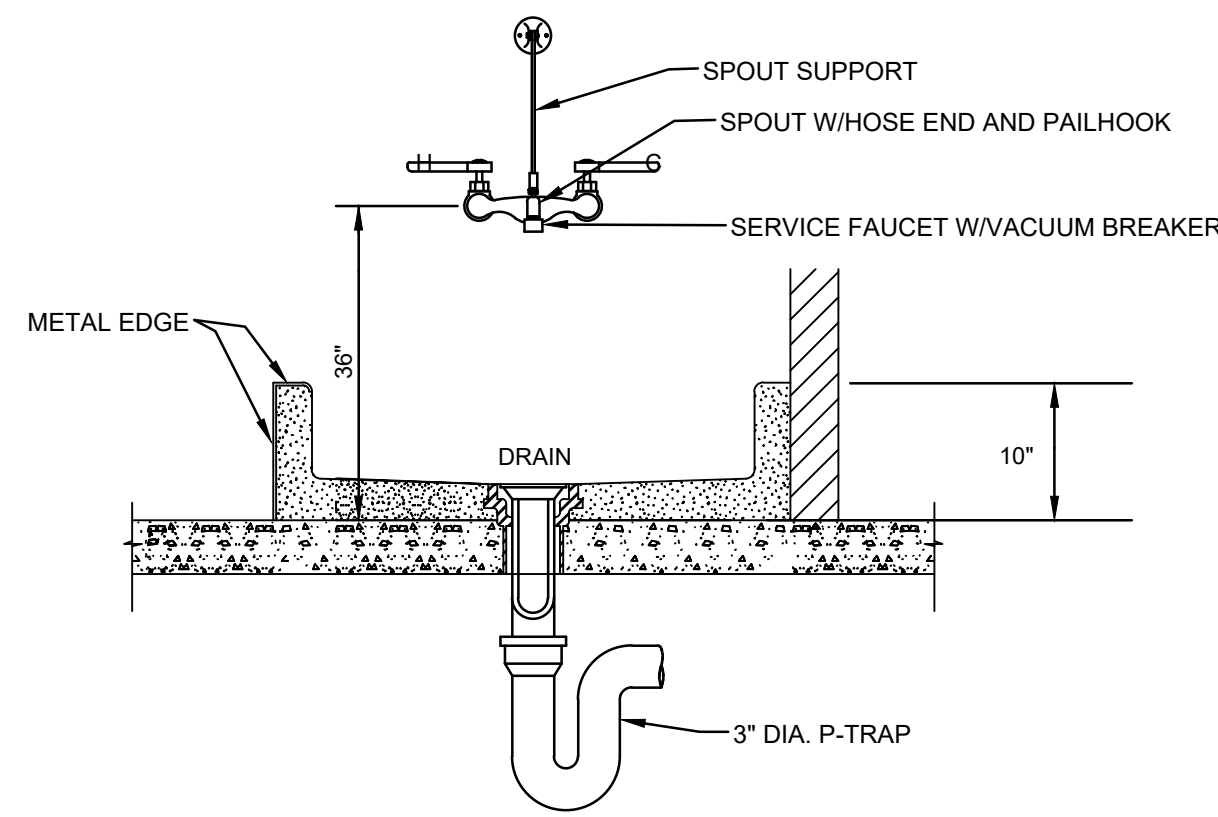
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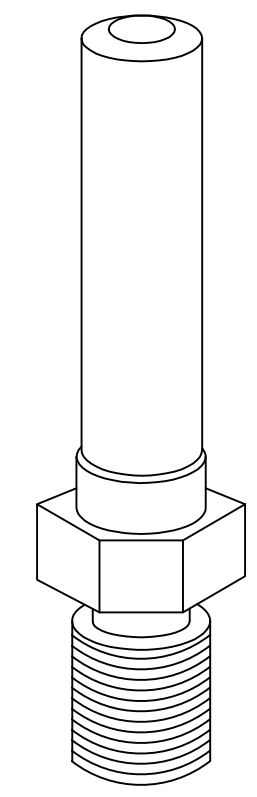
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P300
RISER DIAGRAMS





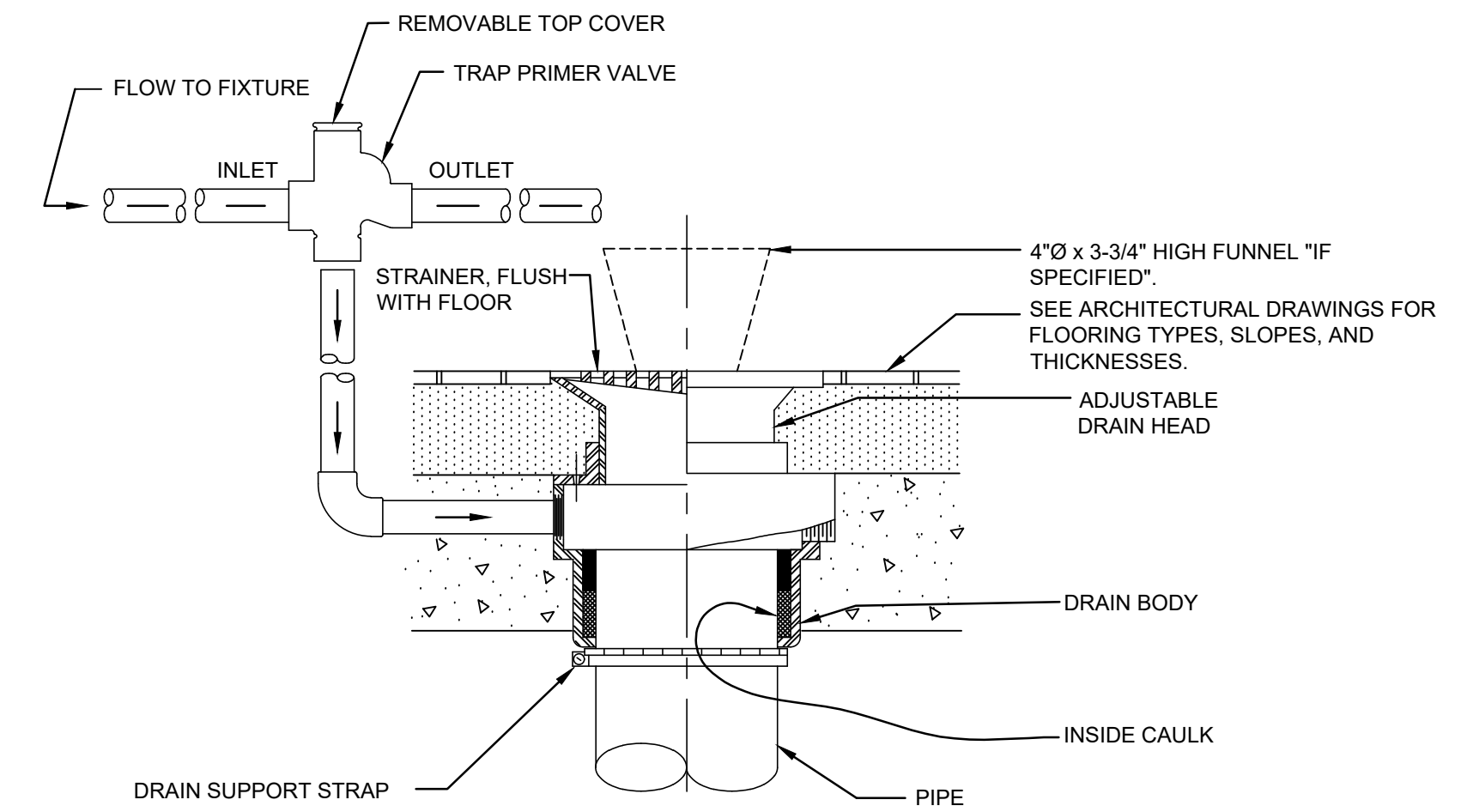
MOP SINK DETAIL
SCALE: NONE **1**



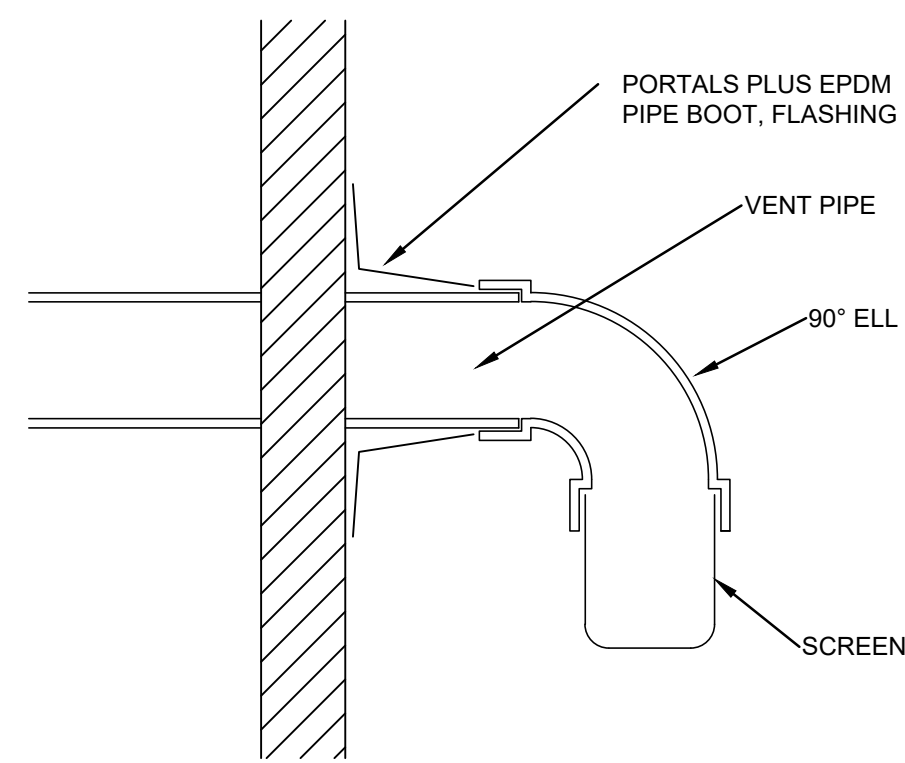
AIR PRELOAD PSI	FIXTURE UNITS	P.D.I. SYMBOL
60	1-11	A
60	12-32	B
60	33-60	C

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

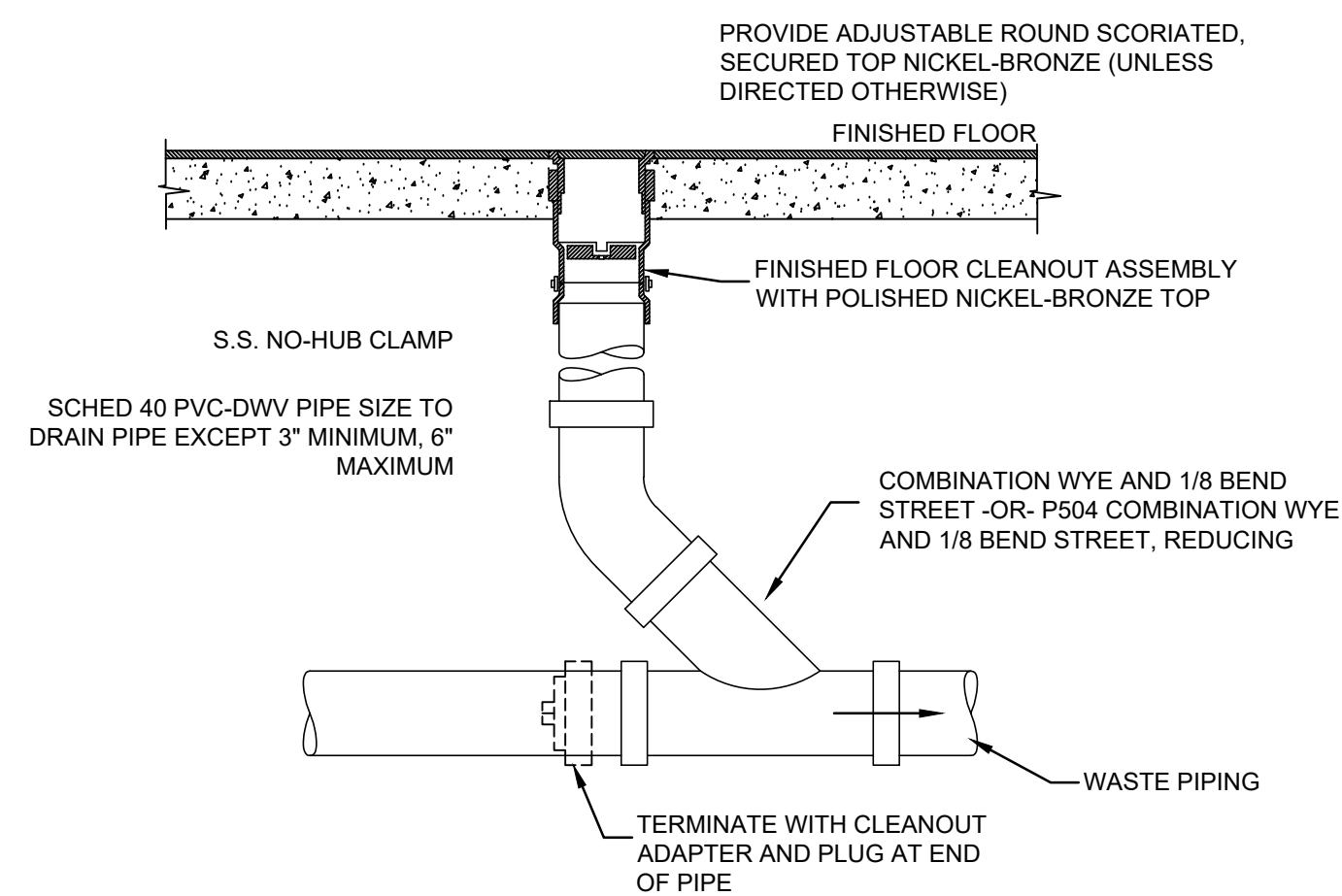
WATER HAMMER DETAIL
SCALE: NONE **2**



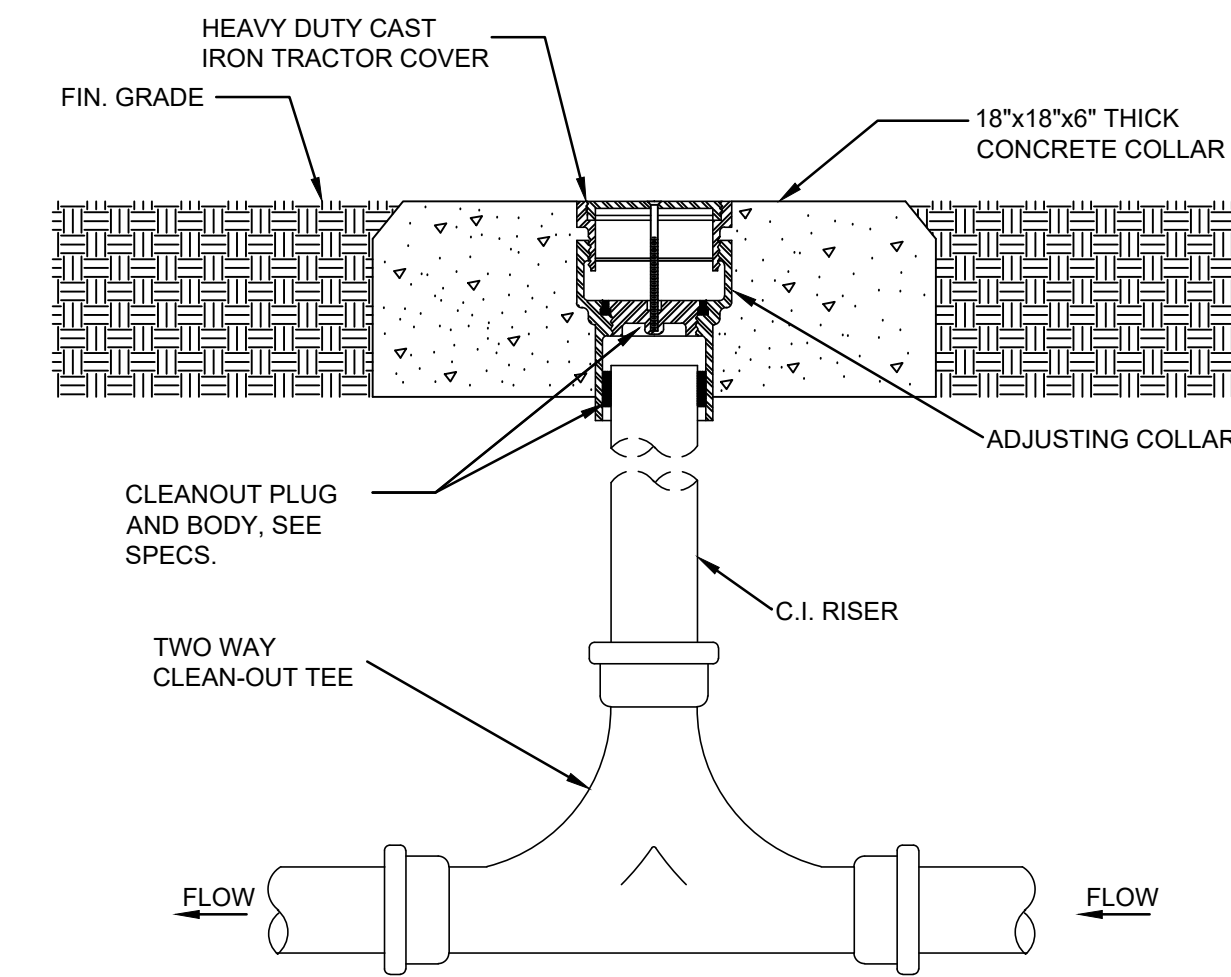
FLOOR DRAIN DETAIL
SCALE: NONE **3**



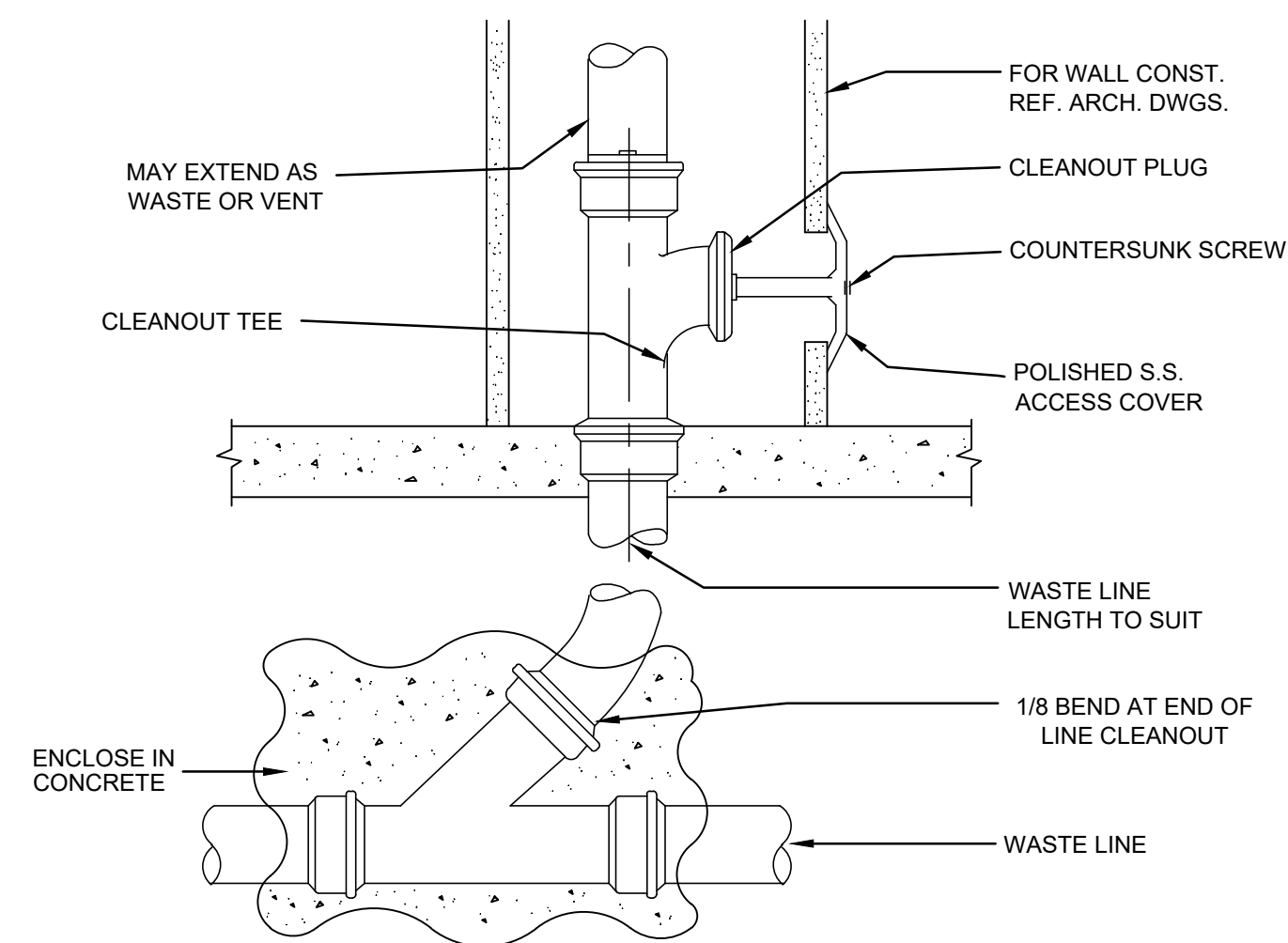
VENT THROUGH WALL DETAIL
SCALE: NONE **4**



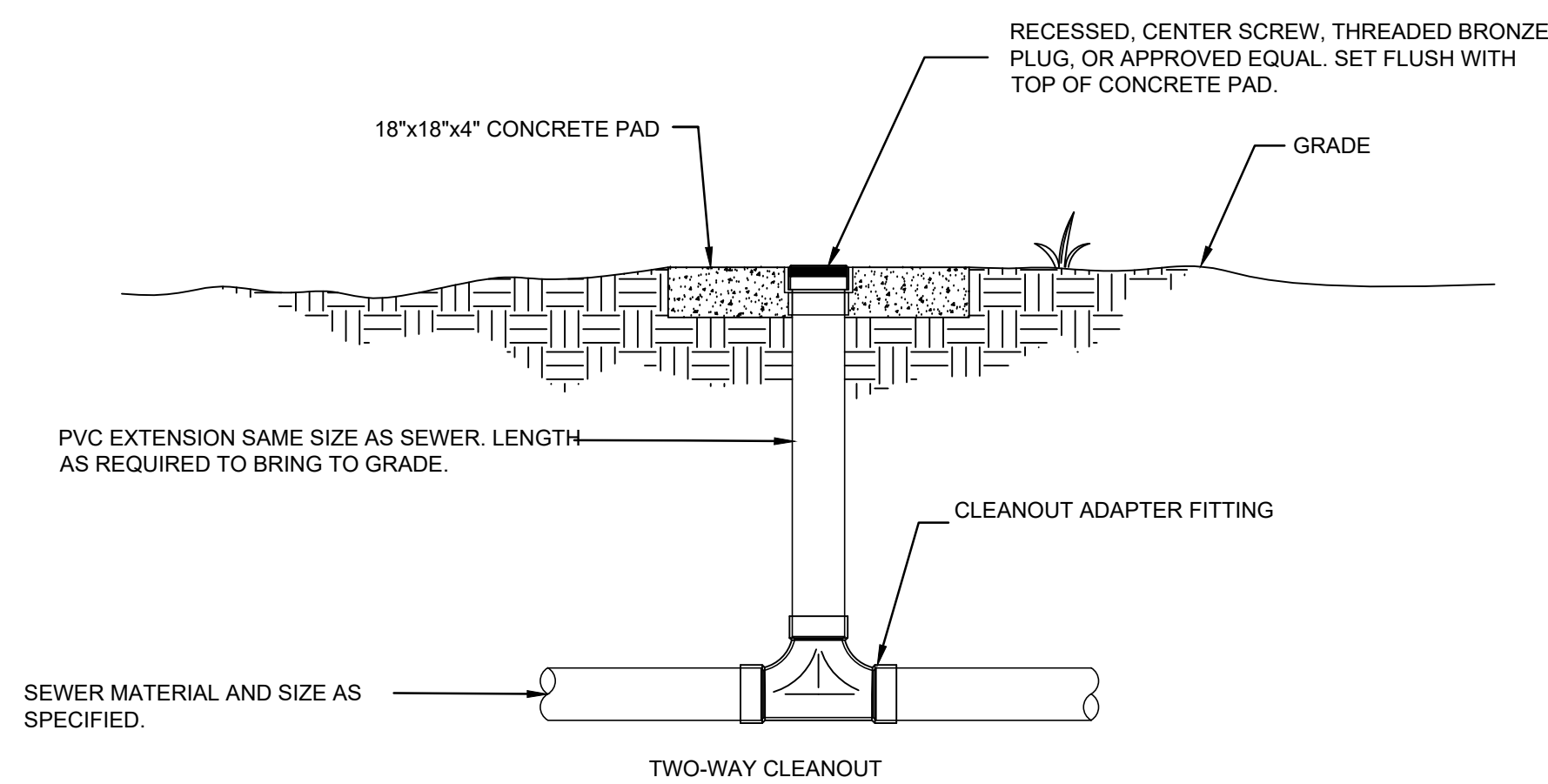
FINISHED FLOOR CLEANOUT DETAIL
SCALE: NONE **5**



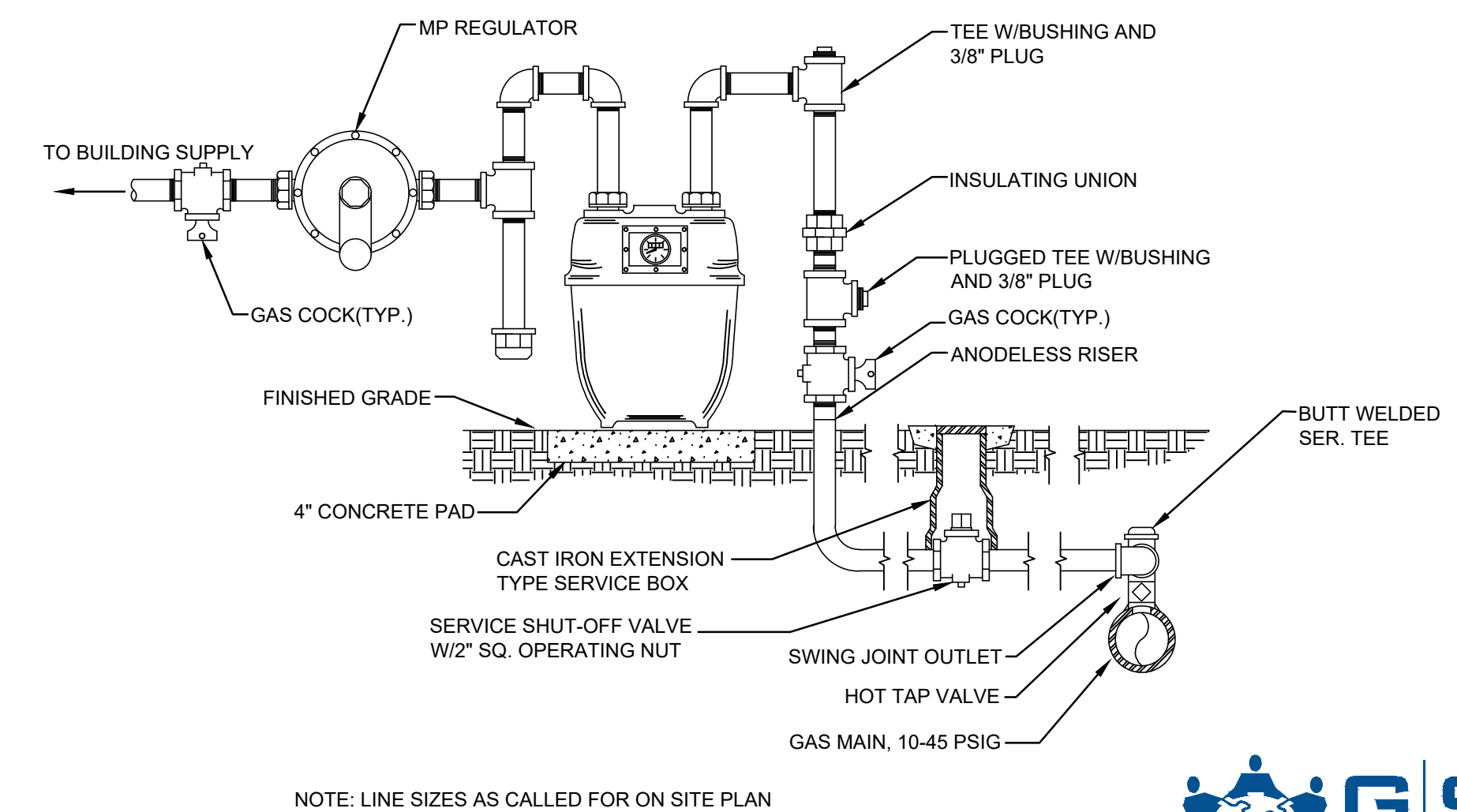
2-WAY FLOOR CLEAN OUT DETAIL
SCALE: NONE **6**



WALL CLEAN OUT DETAIL
SCALE: NONE **7**



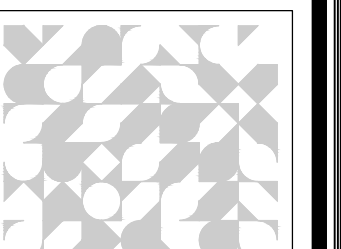
2-WAY EXTERIOR CLEANOUT DETAIL
SCALE: NONE **8**



TYPICAL GAS CONNECTION WITH REGULATOR
SCALE: NONE **9**

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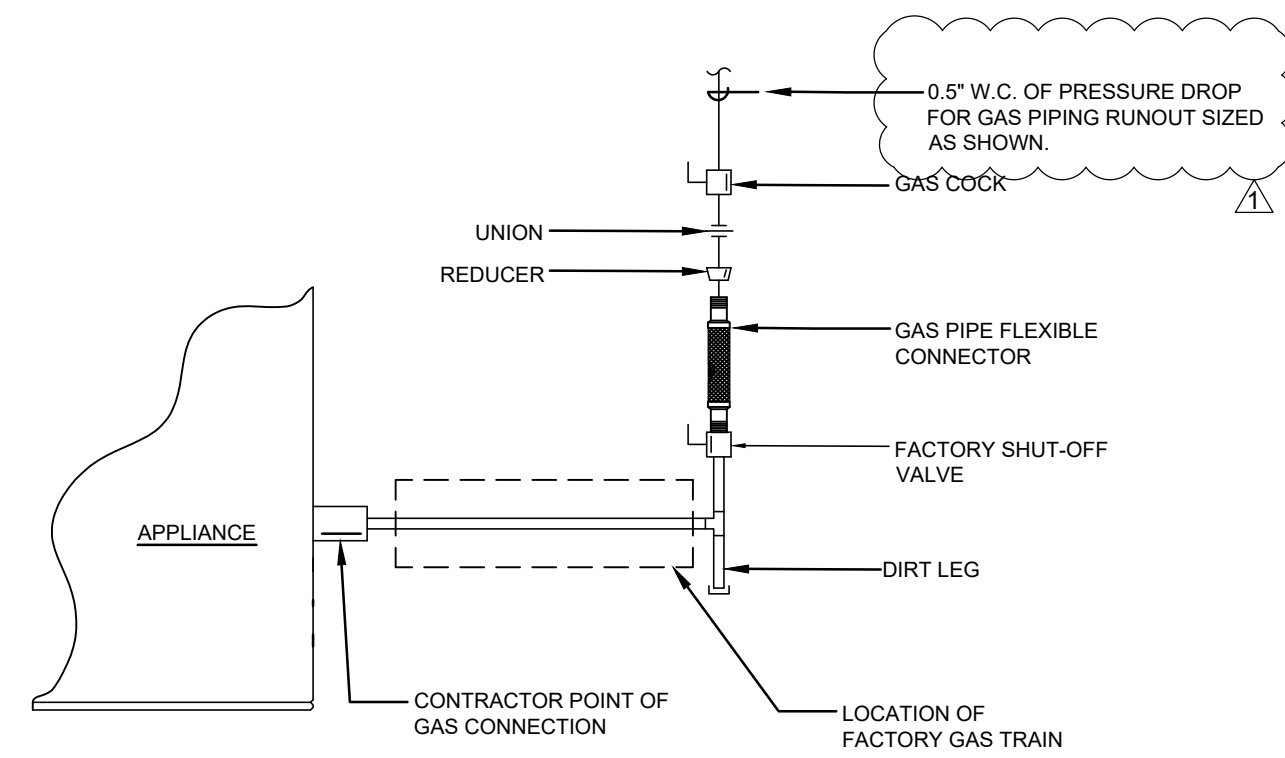
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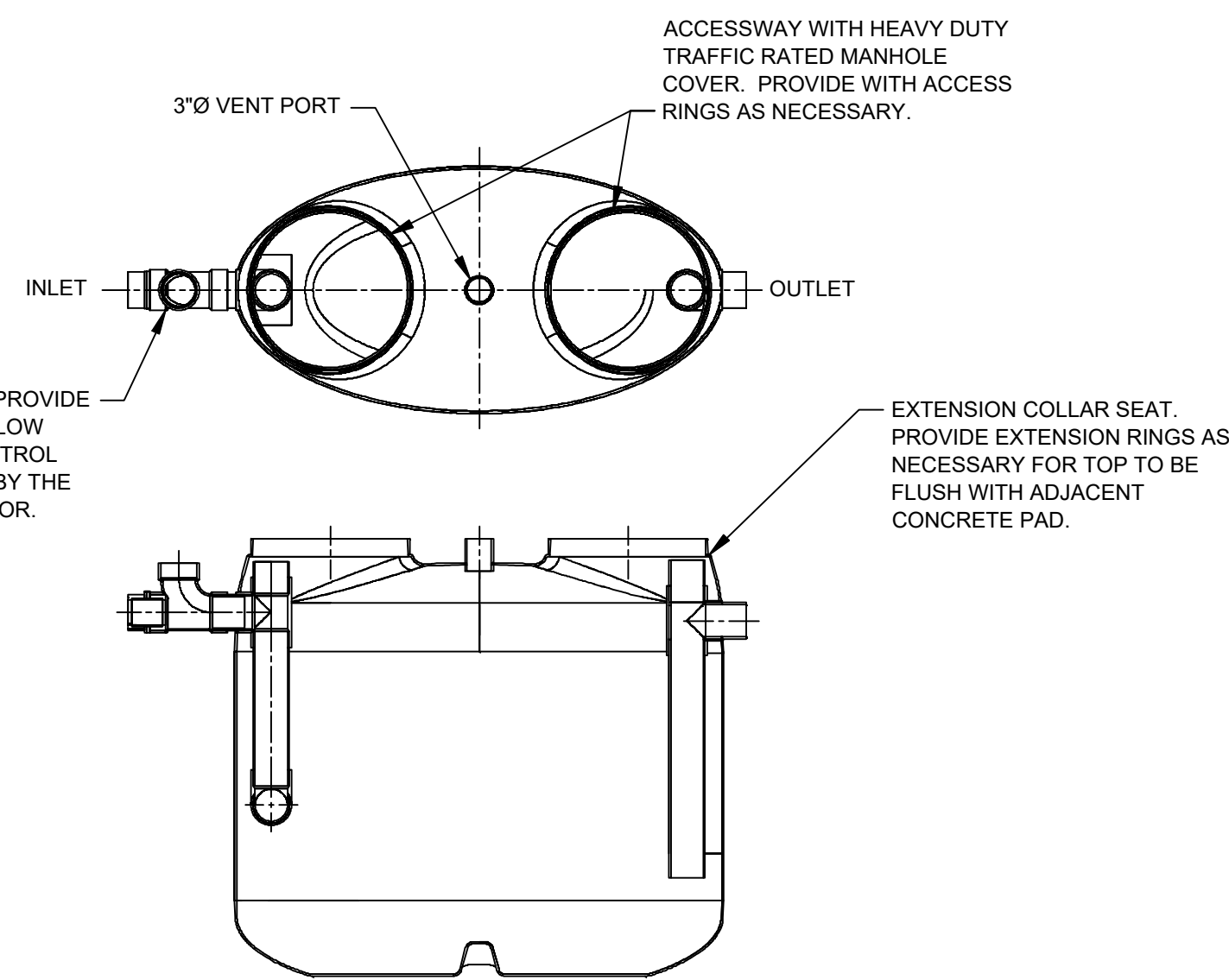
P400

PLUMBING DETAILS

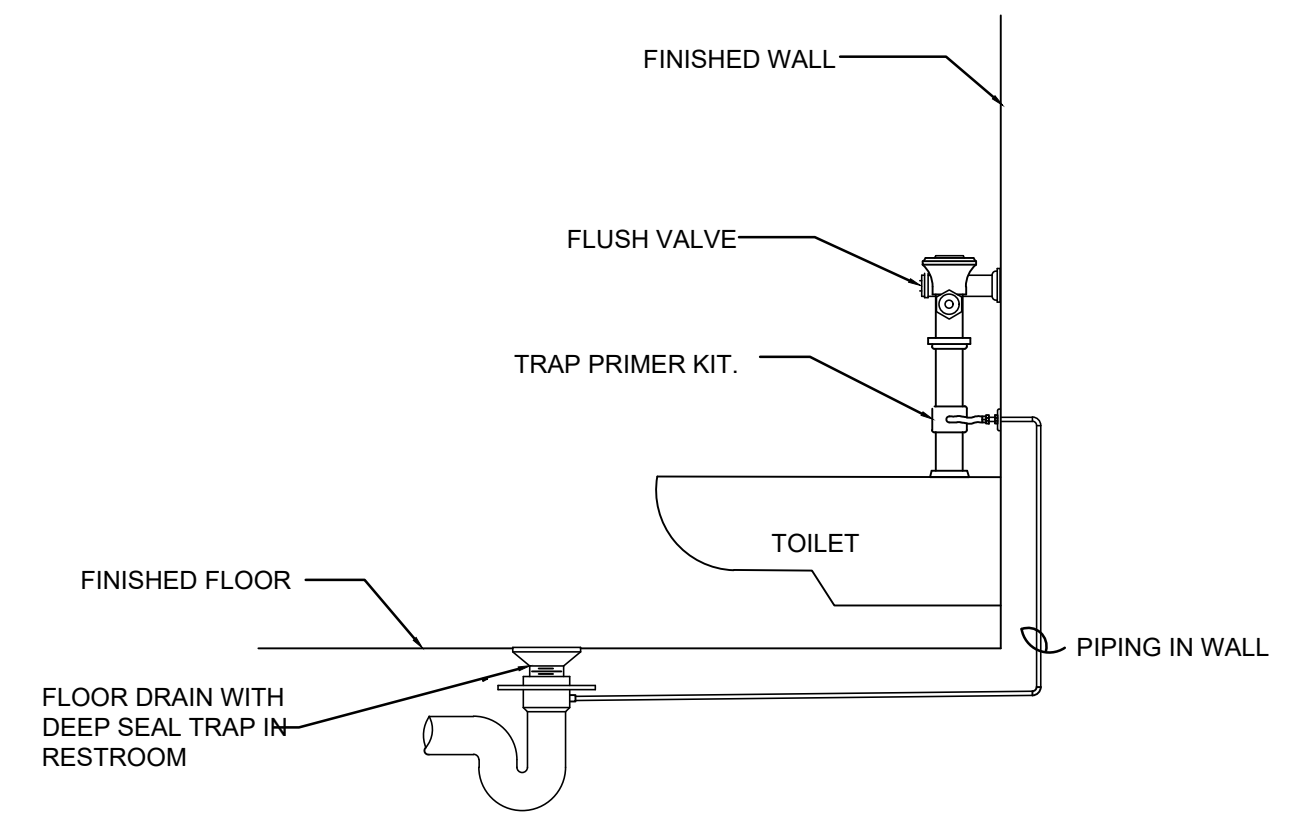




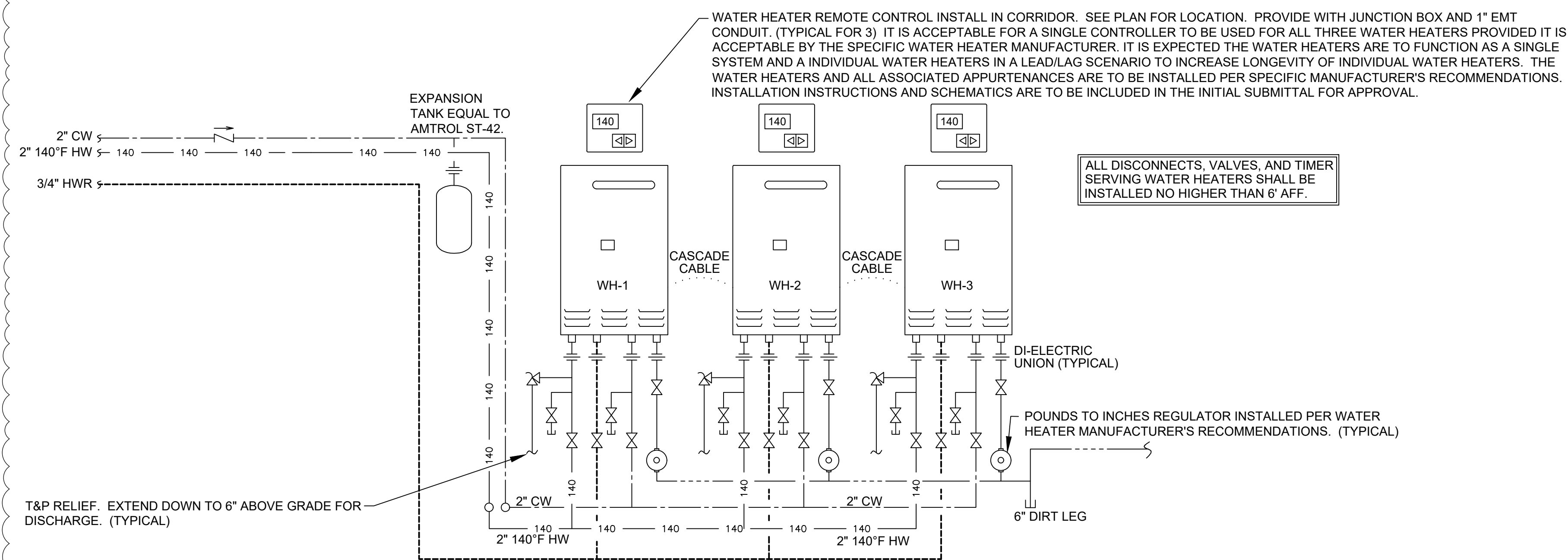
GAS-FIRED APPLIANCE PIPING DETAIL
SCALE: NONE **10**



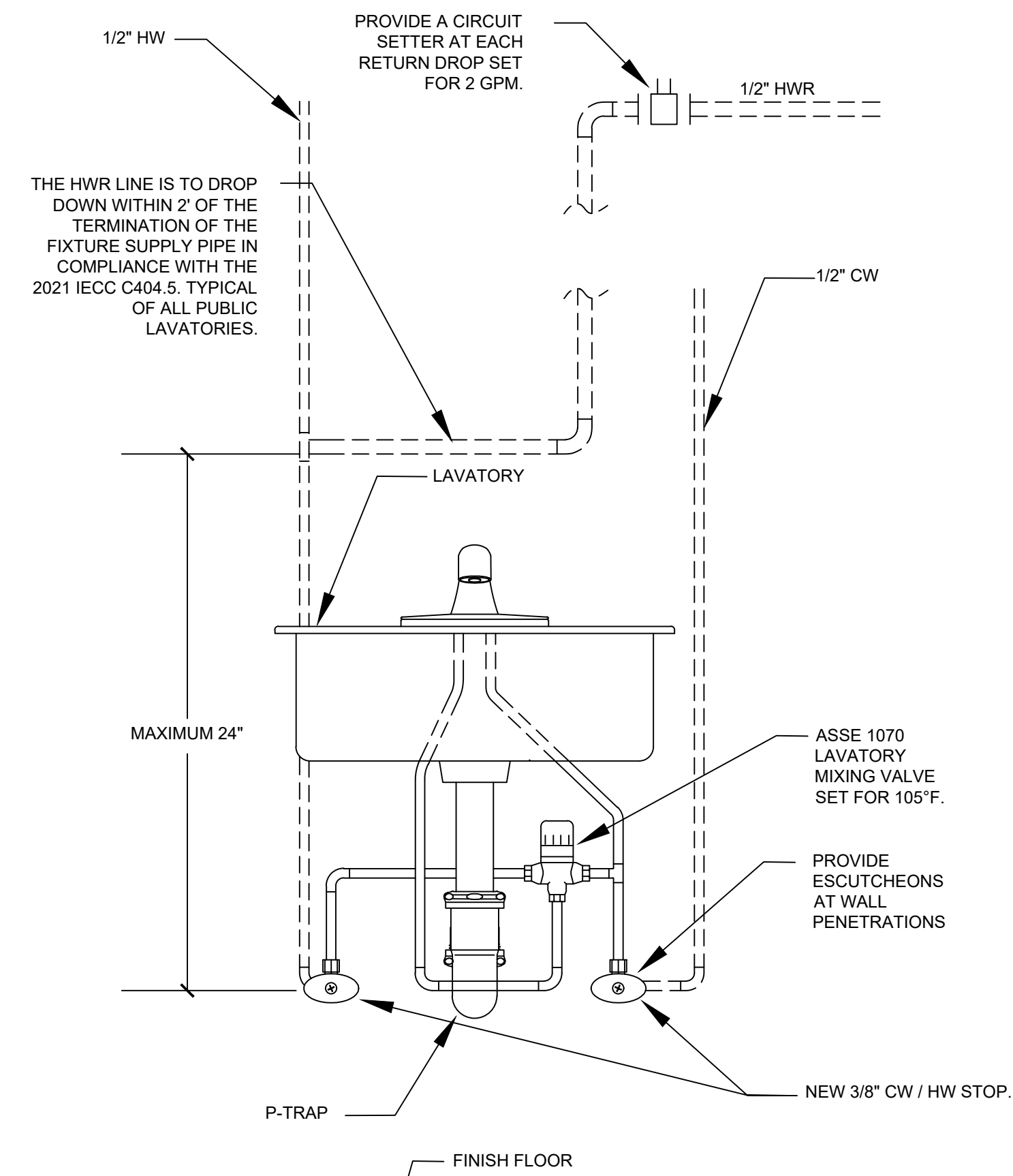
GREASE INTERCEPTOR DETAIL
SCALE: NONE **11**



RESTROOM TRAP PRIMER DETAIL
SCALE: NONE **12**



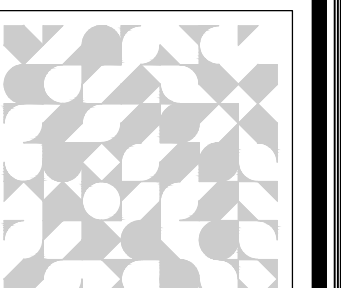
WATER HEATER PIPING DETAIL
SCALE: NONE **13**



LAVATORY MIXING VALVE DETAIL
SCALE: NONE **14**

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PLUMBING DETAILS