SEALED BID

Do Not Return Via Email or Fax

Mailing Address:
P. O. Box 1948
Mobile, Alabama 36633
(251) 208-7434

CITY OF MOBILE

Purchasing Department and Package Delivery: Bid Delivery Address:

Government Plaza
4th Floor, Room S-408
205 Government St.
Mobile, Alabama 36644

Postal Service Does Not Deliver to This Street Address

BID SHEET

This is Not an Order

READ TERMS AND CONDITIONS ON REVERSE SIDE OF THIS PAGE BEFORE BIDDING

Typed by: lw Buyer: 005

Please quote the lowest price at which you will furnish the articles listed below

DATE	BID NO.	DEPARTMENT	Commodities to be delivered F.O.B. Mobile to:
8/13/2026	6064	TRAFFIC ENGINEERING	TO BE SPECIFIED

This bid must be received and stamped by the Purchasing office not later than: 11:30 A.M., TUESDAY, SEPTEMBER 1, 2026

QUANTITY	ARTICLES Bid on this form ONLY. Make no changes on this form. Attach any additional information required to this form.	UNIT	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENSION Dollars	EXTENSION Cents
	STREET LIGHTING POLES/ARMS/PED POLES					
Appx 1-5	Pole, Traffic Signal 37' steel dual mast arms (65' & 50') with 12' Luminaire Extension and MUST MEET ATTACHED SPECIFICATIONS Make_____Model_____					
Appx 1-5	Pole, Traffic Signal 20' steel, mast arms (45 & 50') with 12' luminaire extension,MUST MEET ATTACHED SPECIFICATIONS Make_____Model_____					
Appx 1-5	Pole, Traffic Signal Pedestrian poles 10' steel for PP-1, 2, 3 & 4 MUST MEET ATTACHED SPECIFICATIONS Make_____Model_____					
	TO BE AWARDED ON AN ALL OR NONE BASIS. ALL POLES MUST MEET THE ATTACHED SPECIFICATIONS AND MATCH WHAT IS CURRENTLY IN PLACE. PLEASE SEE THE PICTURES THAT ARE ATTACHED WITH THIS BID. BIDDER WILL BE REQUIRED TO SUBMIT SPEC SHEETS WITH THE RETURN BID. QUOTE DELIVERED PRICING FOB MOBILE. PRICING SHALL BE FIRM FOR A ONE (1) YEAR PERIOD FOLLOWING THE AWARD OF THIS BID.					
			TOTAL			

RETURN ONE SIGNED COPY OF THIS BID IN ENCLOSED ENVELOPE

State delivery time within_____ days of receipt of P.O.

Phone Number _____

Email Address _____

Firm Name _____

Signature _____

Type or Print Name _____

1. All quotations must be signed with the firm name and by an authorized officer or employee.

2. Verify your bid before submission as it cannot be changed or corrected after being opened. In case of error in extension of prices, the unit price will govern.

3. If you do not bid, return this sheet and state reason. Otherwise, your name may be removed from our mailing list.

4. The right is reserved to reject any, or all quotations, or any portions thereof, and to waive technicalities if deemed to be in the interest of the City of Mobile.

5. This bid shall not be reassignable except by written approval of the Purchasing Agent of the City of Mobile.

6. State brand and model number of each item. All items bid must be new and latest model unless otherwise specified.

7. If bid results are desired, enclose a self-addressed and stamped envelope with your bid. (All or None bids only)

8. Do not include Federal Excise Tax as an exemption certificate will be issued in lieu of same. The City is exempt from the State of Alabama and City sales taxes.

9. PRICES ARE TO BE FIRM AND F.O.B. DESTINATION UNLESS OTHERWISE REQUESTED.

10. BID WILL BE AWARDED ON ALL OR NONE BASIS UNLESS OTHERWISE STATED.

11. Bids received after specified time will be returned un-opened.

12. Failure to observe stated instructions and conditions will constitute grounds for rejection of your bid.

13. Furnish literature, specifications, drawings, photographs, etc., as applicable with the items bid.

14. Vendor may be required to obtain City of Mobile Business License as applicable to City of Mobile Municipal Code Section 34-50. For Business License inquiry, contact the Revenue Department at (251) 208-7462 or cityofmobile.org/business-license-overview/

15. **IF** a bid bond is required in the published specifications, see below:
    Each bid shall be accompanied by a **Cashier's Check, Certified Check, Bank Draft** or **Bid Bond** for the sum of five (5) Percent of the amount bid, made payable to the City of Mobile and certified by a reputable banking institution. All checks shall be returned promptly, except the check of the successful bidder, which shall be returned after fulfilling the bid.

16. Contracts in excess of $50,000 require that the successful bidder make every possible effort to have at least fifteen (15) percent of the total value of the contract performed by socially and economically disadvantaged individuals.

17. All bids/bid envelopes must have the bid number noted on the front. Bids that arrive unmarked and are opened in error shall be returned to vendor as an unacceptable bid.

18. If successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Alabama Secretary of State prior to issuance of a Purchase Order. Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx . Please note that the time between application for and issuance of a Certificate of Authority may be several weeks.

19. Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State to submit a bid, but may need to obtain the Business License and Certificate of Authority if applicable, prior to issuance of a Purchase Order.

20. Bids and addendums are posted at www.cityofmobile.org/services/business/bids/. It is the responsibility of the vendor to check the City's bid page for updates and addendums.

21. Vendors must be able to provide the following upon request. Federal W-9 form, proof of registration in the E-Verify program, and Certificate of Authority to do business in Alabama/Registration with the Alabama Secretary of State within 24 hours of request.

22. City of Mobile applies local vendor preference to all purchases: Code of Aabama, 1975, Sections 41-16-50(a) and 41-16-50(d), except federally funded grants.

23. Equal Employment Opportunity. Except as otherwise provided under 41 CFR part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

24. Davis-Bacon Act, as amended (40 U.S.C. 3141-3148) will apply when required by Federal program regulations.

BID CONTINUATION SHEET

QUANTITY	ARTICLES Bid on this form ONLY. Make no changes on this form. Additional information to be submitted on separate sheet and attached hereto.	UNIT	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENSION Dollars	EXTENSION Cents
	Page 2 of 3					
	SYSTEM / PRODUCTS BID ARE TO BE COMPATIBLE WITH EXISTING EQUIPMENT IN USE BY THE CITY OF MOBILE.					
	CITY WILL ASSIST WITH THE UNLOADING. VENDOR/TRUCK LINE MUST CALL AT LEAST 24 HOURS PRIOR TO DELIVERY ATTEMPT. TRUCK CAN BE MET/ UNLOADED BETWEEN 7:30 A.M. AND 1:00 P.M. ONLY. NOTIFICATION REQUIRED TO ENSURE EQUIPMENT IN PLACE FOR UNLOADING.					
	All vendors will be required to provide verification of enrollment in the E-Verify program. Additional information may be found at http:// immigration.alabama.gov/					
	If the successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Secretary of State prior to issuance of a Purchase Order.					
	Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See: www.sos.alabama.gov/ BusinessServices/ForeignCorps.aspx. Please note that the time between application for the issuance of a Certificate of Authority may be several weeks.					
	Upon notification, vendor will have 10 business days to provide the Certificate of Authority and the E-Verify numbers to the Purchasing Department before award can be completed. (Vendors will possibly need to pay the expedite fee to meet this requirement because application is not sufficient. We must have a copy of the certificate with your Company ID number).					
	Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State, nor the E-Verify for certification to submit a bid, but will need to obtain the Business License and Certificate of Authority verification and/or provide the E-Verify Certification, if applicable, prior to issuance of a Purchase Order.					
	If you have not received a Purchase Order from the City of Mobile within the past 6 months, please include your W9 and the completed Vendor form with your bid . These forms are included with your bid package. The contact information should be for your Sales Department. Please include: telephone number, fax number and a valid e-mail address.					
			TOTAL			

RETURN ONE SIGNED COPY OF THIS QUOTATION IN ENCLOSED ENVELOPE

READ ABOVE INSTRUCTIONS BEFORE QUOTING

Firm Name _____

By _____

BID CONTINUATION SHEET

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	Upon notification, vendor will have 10 business days to provide the Certificate of Authority and the E-Verify numbers to the Purchasing Department before award can be completed. (Vendors will possibly need to pay the expedite fee to meet this requirement because application is not sufficient. We must have a copy of the certificate with your Company ID number).					
	Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State, nor the E-Verify for certification to submit a bid, but will need to obtain the Business License and Certificate of Authority verification and/or provide the E-Verify Certification, if applicable, prior to issuance of a Purchase Order.					
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			TOTAL			

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Firm Name _____

By _____

CITY OF MOBILE

SPECIFICATIONS FOR STEEL TRAFFIC SIGNAL POLES

i. General

a. The following are the requirements for steel traffic signal poles and pedestrian poles as shown in **Appendix A**. These requirements may be supplemented by the requirements given on the details attached hereto as a part of this specification. The poles will be for City of Mobile Project 2025-3005-20 to widen and construct a traffic signal at the intersection of McGregor Ave. and Springhill Ave.

A traffic signal pole shall consist of a tapered, fluted pole, tapered traffic signal mast arm(s), luminaire arm(s), if required, anchor bolts, base plate, and any other features as described in this specification and attached plans. All visible features of the mast arms, poles, luminaire arm(s), etc. must be coated in **BLACK.**

A pedestrian pole shall consist of a tapered, fluted pole, if required, anchor bolts, base plate, and any other features as described in this specification and attached plans. All visible features of the mast arms, poles, luminaire arm(s), etc. must be coated in **BLACK.**

Please reference Appendix B for an example pole design and drawings this proposal shall match.

ii. Design/Fabrication

a. All materials used in the fabrication of traffic signal structural supports shall meet the requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2022 edition as per the latest ALDOT Standard Specifications. Calculations and detailed drawings shall be submitted demonstrating compliance with the specifications. They shall include stress analysis on the mast arm, luminaire arm, pole, base plate, and anchor bolts. Maximum loads and stresses shall be determined for the most critical wind direction. The tube's drag coefficients shall be increased to include the effects of fluted shapes.

All grades of steel listed in the AASHTO Standard Specifications for Highway Bridges are applicable for welded structural supports for traffic signals and shall have a specified yield strength not less than 35 ksi.

b. Steel Poles

The shafts shall be fabricated from basic oxygen or open hearth sheet steel, of a single ply, and having only one longitudinal seam weld. Steel poles shall be anchored with a one piece cast steel anchor base or a welded steel plate anchor base that is of sufficient strength to develop the yield strength of the pole. When the anchor base is attached to the shaft it shall develop the full strength of the shaft section to resist bending action. The base shall be provided with four slotted holes for attachment to the foundation with four anchor bolts. Each pole will have an internal grounding lug inside each pole near the hand hole.

c. Mast Arms

Mast arms shall be curved, smooth upswept round shafts fabricated from steel tubes to the lengths specified on the bid and attached plan set. Mast arms shafts shall be of one continuous piece without intermediate splices or couplings, provided with rain-tight connections to the shaft of the pole and designed to bolt in place as designed. A two piece section, slip joint shaft mast arm will be permitted if this bid requires mast arms longer than the manufacturer's length capability.

d. Luminaire Arms

Luminaire arms shall be curved, smooth upswept round shafts. The luminaire arms shall be manufactured from 2 inch Schedule 40 pipe (2-3/8 inch O.D.) with a scroll brace attachment. The arm shall be design to attach to the shaft of the signal pole with option to rotate three hundred and sixty degrees in the horizontal plane. The luminaire is not a part of this bid. The design of the luminaire arm included in the bid shall be submitted with the bid, in addition to any alternative design that can be substituted at no additional cost.

e. Anchor Bolt Assemblies

Anchor bolt assemblies (anchor bolts, nuts, and washers) shall be in accordance with AASHTO M 314, Grade 36 or Grade 55, except maximum tensile strength on all grades is waived, and capable of transferring the load safely from the structure base plate to the foundation. The exposed end of the anchor bolts shall be threaded (rolled or cut type) and provided with appropriate nuts, including lock nuts and flat washers. The anchor bolts, nuts, and washers shall be hot-dipped galvanized in accordance with AASHTO M 232, however, galvanization of the bolt below 6 inches from the top of the embedment line will not be required. The nuts shall be lubricated with a lubricant containing a visible dye so that a visual check can be made for proper

lubrication prior to installation. Special care shall be taken when storing galvanized bolts with a water soluble lubricant.

f. Finish

All poles, mast arms and attachments shall be hot dipped galvanized per ASTM-A123. Powered coating or wet coat painting urethane primer/polyurea finish. The finished color shall be gloss black. Material shall be wrapped and protected to prevent damage during shipping, storage and construction.

g. Metal Traffic Signal Pole with Mast Arm Assembly

The Metal Traffic Signal Pole with Mast Arm Assembly shall include furnishing the metal traffic signal pole, mast arm assembly, luminaire arm, and all features and hardware necessary as described in this specification and illustrated in the attached plans within **Appendix A**.

Payment will be made under the following Line Items:

(1) Traffic Signal Pole, 37' Steel, Dual Mast Arms (65' & 50') with 12' Luminaire Extension

a. Note: FMA-2 (Future Mast Arm 2 = 50 mast arm) needs to be considered for the Pole #1's design but will not be purchased through this bid.

(2) Traffic Signal Pole, 20' Steel, Mast Arms (45' & 50') with 12' Luminaire Extension.

a. Plans call for the luminaire but it will not be installed. Do not incorporate into the pole's design.

(3) Traffic Signal Pedestrian Poles, 10' Steel for PP-1, 2, 3, & 4 (4 total pedestrian poles). See Appendix A and B for details.

Appendix A

McGregor and Springhill Signal Plan Set

TRAFFIC SIGNAL AND ITS LEGEND

ELECTRICAL BOXES

	EXISTING	REQUIRED
METALLIC PULL BOX	PB	PB
FIBER OPTIC COMMBOX TYPE F1	F1	F1
FIBER OPTIC COMMBOX TYPE F2	F2	F2
TRAFFIC SIGNAL JUNCTION BOX TYPE S1	S1	S1
TRAFFIC SIGNAL JUNCTION BOX TYPE S2	S2	S2
TRAFFIC SIGNAL JUNCTION BOX TYPE S3	S3	S3

CABLE IN CONDUIT

	EXISTING	REQUIRED
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)	FO	FO
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)	FOWC	FOWC
FIBER OPTIC CABLE IN CONDUIT (BRIDGE ATTACHED)	FO	FO
FIBER OPTIC CABLE (AERIAL INSTALLATION)	OFD	OFD
INTERCONNECT CABLE IN CONDUIT (UNDERGROUND)	UI	UI
INTERCONNECT CABLE (AERIAL INSTALLATION)	OI	OI
CONDUIT	C	C
ENCASEMENT		
OVERHEAD ELECTRIC	OE	OE
BURIED ELECTRIC	BE	BE

VEHICULAR DETECTORS

	EXISTING	REQUIRED
PRESENCE LOOP DETECTOR		
QUADRUPOLE LOOP DETECTOR		
6' x 6' LOOP DETECTOR		
VEHICLE DETECTION CAMERA	VDC	
DETECTION ZONE		
RADAR DETECTION UNIT	R	R
RADAR DETECTION UNIT (ADVANCE)	AR	AR
RADAR DETECTION UNIT (PRESENSE)	PR	PR
MAGNETOMETER (SENSOR)		
MAGNETOMETER (REPEATER POLE)		

CABINETS

	EXISTING	REQUIRED
CABINET		

CAMERAS

	EXISTING	REQUIRED
CCTV CAMERA, FIXED	FIX	FIX
CCTV CAMERA, PTZ	PTZ	PTZ

MISCELLANEOUS EQUIPMENT

	EXISTING	REQUIRED
TRAFFIC SIGNAL HEAD		#
TRAFFIC SIGNAL HEAD WITH BACKPLATE		#
PEDESTRIAN SIGNAL HEAD		
8 FOOT PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD		
PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN		
PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN	SCH	SCH
PUSH BUTTON ASSEMBLY	PB	PB
SPAN/MASTARM MOUNTED SIGN		
OMNI DIRECTIONAL ANTENNA		
DIRECTIONAL ANTENNA		
EMERGENCY VEHICLE PREEMPTION SENSOR	EVP	EVP
BLANKOUT MESSAGE SIGN	B	B
TRAFFIC CONTROL CENTER		
HIGHWAY ADVISORY RADIO		
HUB BUILDING	H	H
DYNAMIC MESSAGE SIGN (OVERHEAD)		
DYNAMIC MESSAGE SIGN (ROADSIDE)		
DYNAMIC MESSAGE SIGN (CANTILEVER)		
DIGITAL RADIO	DR	DR
REPEATER		

(NOTE: # INDICATES SIGNAL HEAD NUMBER)

POLES

	EXISTING	REQUIRED
METAL POLE OR AS SPECIFIED ON PLANS		
CONCRETE POLE		
METAL MASTARM POLE		
CLASS 3 WOOD SERVICE POLE WITH DISCONNECT	D	D
WOOD POLE		
DOWN GUY		
LUMINAIRE		

ABBREVIATIONS

AMERICAN WIRE GAUGE	AWG
CLOSED CIRCUIT TELEVISION	CCTV
CONDUIT	C
CURB AND GUTTER	C&G
DYNAMIC MESSAGE SIGN	DMS
EASTBOUND ROADWAY	EBR
EMERGENCY VEHICLE PREEMPTION	EVP
END ANCHOR	E/A
FLASHING BEACON	FB
GALVANIZED RIGID CONDUIT	GRC
GUARDRAIL	GR
HIGH DENSITY POLYETHYLENE	HDPE
HIGHWAY ADVISORY RADIO	HAR
INDIVIDUAL LOWERING DEVICE	ILD
INTELLIGENT TRANSPORTATION SYSTEM(S)	ITS
JUNCTION BOX	JB
LEFT	LT
LIGHT EMITTING DIODE	LED
LIGHT POLE	LP
LUMINAIRE	LUM
MILEPOST	MP
NORTHBOUND ROADWAY	NBR
NON-METALLIC CONDUIT	NMC
PAN TILT ZOOM	PTZ
PRIMARY FIBER DISTRIBUTION UNIT	PFDU
PROPERTY LINE	PL
PUBLIC ACCESS CAMERA	PAC
PULL BOX	PB
RADIUS	R
RAILROAD	RR
RIGHT	RT
RIGHT OF WAY	ROW
ROADWAY	RDWY
SECONDARY FIBER DISTRIBUTION UNIT	SFDU
SCHOOL	SCH
SOUTHBOUND ROADWAY	SBR
STANDARD DRAWING	STD-DWG
STATION	STA
TRAFFIC CONTROL CENTER	TCC
TRAFFIC SIGNAL OPERATING PLAN	TSOP
TRANSPORTATION MANAGEMENT CENTER	TMC
TURNOUT	TO
VEHICLE DETECTION CAMERA	VDC
WESTBOUND ROADWAY	WBR

Gresham Smith

GreshamSmith.com

2222 Arlington Ave South
Suite 202
Birmingham, AL 35205

205.298.9200

TRAFFIC SIGNAL DESIGN AT MCGREGOR AVE AND SPRING HILL AVE

City of Mobile
852 Gayle Street
Mobile, Alabama 36604

Revision

No.	Date	Description

NOT TO SCALE

TRAFFIC SIGNAL AND ITS LEGEND

SHEET NO.	TOTAL SHEETS
47	64

100% PLAN SUBMITTAL

45/0501_LEGEND.dgn
12:00:33 PM
6/10/2026

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	100%

ALABAMA DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN SECTION

NOT TO SCALE

SHEET TITLE	ROUTE
TRAFFIC SIGNAL AND ITS LEGEND	N MCGREGOR AVE

TRAFFIC SIGNAL SUMMARY OF QUANTITIES

LEGEND	
A	T.S.D.-730-1
B	T.S.D.-730-2B
C	T.S.D.-730-4
D	T.S.D.-730-9
E	T.S.D.-730-9A
F	T.S.D.-730-10
G	T.S.D.-730-12
H	T.S.D.-730-13
I	T.S.D.-730-14
J	T.S.D.-730-18

REQUIRED TRAFFIC SIGNAL EQUIPMENT (LIN FT PAY ITEMS)

LOCATION	1" METALLIC CONDUIT	2" NON-METALLIC CONDUIT	6" ELECTRICAL CONDUIT, 1 LINE TYPE 5 INSTALLATION	STD/SPEC DWG NO	REMARKS
	730-L1	730-L2	756-A		
	LIN FT	LIN FT	LIN FT		
N MCGREGOR AVE AT SPRING HILL AVE	15	750	300	F, I	
TOTALS	15	750	300		

REQUIRED TRAFFIC SIGNAL PAY ITEMS (LUMP SUM)

LOCATION	REMOVAL OF EXISTING TRAFFIC CONTROL UNIT (NORTH MCGREGOR AVENUE AT SPRING HILL AVENUE)	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT (NORTH MCGREGOR AVENUE AT SPRING HILL AVENUE)	VIDEO DETECTION SYSTEM (NORTH MCGREGOR AVENUE AT SPRING HILL AVENUE)	FURNISHING AND INSTALLING PEDESTAL POLE AND FOUNDATION WITH PEDESTRIAN SIGNAL FEATURES	FURNISHING AND INSTALLING PEDESTAL POLE AND FOUNDATION WITH PEDESTRIAN SIGNAL FEATURES	FURNISHING AND INSTALLING PEDESTAL POLE AND FOUNDATION WITH PEDESTRIAN SIGNAL FEATURES	FURNISHING AND INSTALLING PEDESTAL POLE AND FOUNDATION WITH PEDESTRIAN SIGNAL FEATURES	STD/SPEC DWG NO	REMARKS
	730-A	730-C	730-U	730-Y1	730-Y2	730-Y3	730-Y4		
	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM		
N MCGREGOR AVE AT SPRING HILL AVE	1	1	1	1	1	1	1	C, D, E, G, J	
TOTALS	1	1	1	1	1	1	1		

REQUIRED TRAFFIC SIGNAL EQUIPMENT (EACH PAY ITEMS)

LOCATION	METAL TRAFFIC SIGNAL POLE FOUNDATION (POLE 1)	METAL TRAFFIC SIGNAL POLE FOUNDATION (POLE 2)	METAL TRAFFIC SIGNAL POLE WITH 65' MAST ARM ASSEMBLY	METAL TRAFFIC SIGNAL POLE WITH 45' & 50' MAST ARM ASSEMBLIES	TRAFFIC SIGNAL JUNCTION BOX TYPE S2	LUMINAIRE EXTENSION ASSEMBLY, 12 FEET	VEHICULAR SIGNAL HEAD, 12 INCH, 3 SECTION, TYPE LED	VEHICULAR SIGNAL HEAD, 12 INCH, 4 SECTION, TYPE LED	PEDESTRIAN SIGNAL HEAD, TYPE LED	MISCELLANEOUS EQUIPMENT, PEDESTRIAN PUSH BUTTON	CONTROLLER ASSEMBLY, TYPE NEMA, 16 CHANNELS	ELECTRICAL POWER SERVICE ASSEMBLY WITH WOOD POLE	STD/SPEC DWG NO	REMARKS
	730-E1	730-E2	730-F1	730-F2	730-K	730-N	730-P1	730-P2	730-P3	730-Q	730-R	730-I		
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
N MCGREGOR AVE AT SPRING HILL AVE	1	1	1	1	7	1	5	2	2	2	1	1	B, C, D, F, H	
TOTALS	1	1	1	1	7	1	5	2	2	2	1	1		

NOTE: THE CITY OF MOBILE IS PURCHASING THE POLES AND MAST ARMS FOR THIS PROJECT

Gresham Smith

GreshamSmith.com

2222 Arlington Ave South
Suite 202
Birmingham, AL 35205

205.298.9200

TRAFFIC SIGNAL DESIGN AT MCGREGOR AVE AND SPRING HILL AVE

City of Mobile
852 Gayle Street
Mobile, Alabama 36604

Revision

No.	Date	Description

NOT TO SCALE

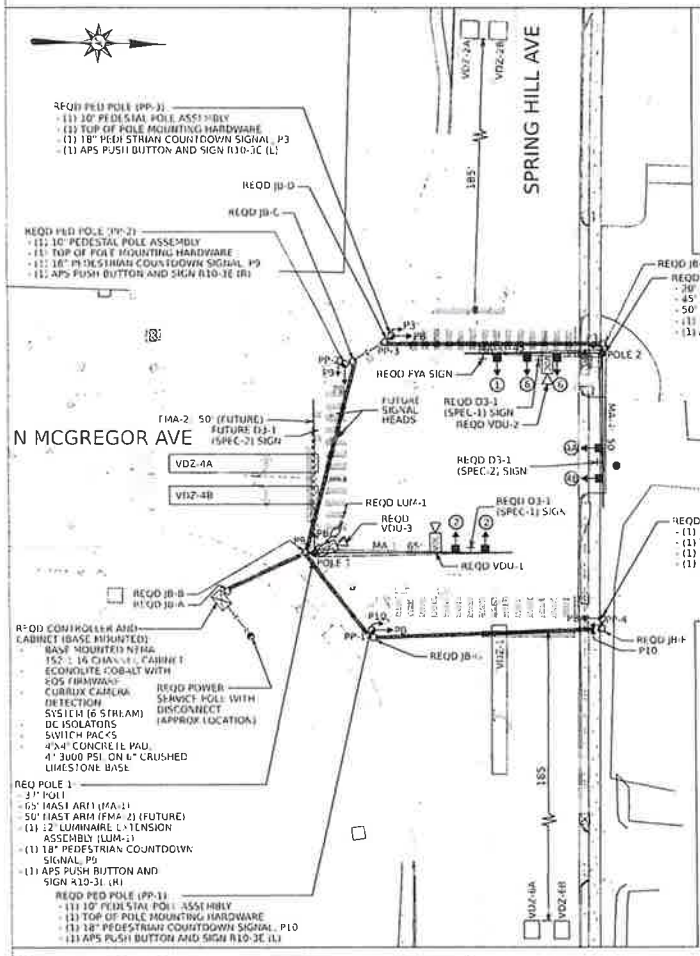
TRAFFIC SIGNAL SUMMARY OF QUANTITIES

SHEET NO.	TOTAL SHEETS
48	64

100% PLAN SUBMITTAL

4500501_SUM.dgn 12:08:46 PM corlett 6/10/2026

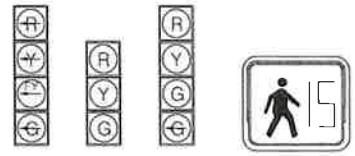
TRAFFIC SIGNAL LAYOUT SHEET



LEGEND

- # SIGNAL HEAD PHASE NUMBER
- P# PEDESTRIAN SIGNAL PHASE NUMBER
- PP-# PEDESTRIAN POLE NUMBER
- VDZ-# VIDEO DETECTION ZONE NUMBER
- VDU-# VIDEO DETECTION UNIT

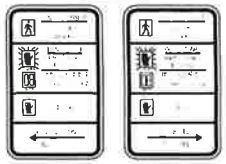
LED TRAFFIC SIGNAL HEADS



ROAD SIGNS

FYA SIGN
30" X 36"
(SEE ALDOT STD DWG T-D-730-18)

PED SIGNS



R10-3E(L)
9" X 15"

R10-3E(R)
9" X 15"

OVERHEAD STREET NAME SIGNS

LEGEND	
A	T.S.D.-730-1
B	T.S.D.-730-2B
C	T.S.D.-730-4
D	T.S.D.-730-9
E	T.S.D.-730-9A
F	T.S.D.-730-10
G	T.S.D.-730-12
H	T.S.D.-730-13
I	T.S.D.-730-14
J	T.S.D. 730 18

NOTES:
1. SIGN COLORS DESIGNED PER CITY OF MOBILE (BLACK SIGNS, WHITE FONT)
2. SIGN FONT AND SIGN SIZE PER LATEST MUTCD STANDARDS.
3. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE OVERHEAD STREET NAME SIGNS.
4. THE CITY OF MOBILE WILL GIVE FINAL APPROVAL FOR SIGNS BEFORE CONTRACTOR PLACES ORDER FOR THE OVERHEAD SIGNS. THE CITY OF MOBILE HAS HAD ISSUES IN THE PAST WITH SIGNS THAT ARE OVERLY LARGE AND THE CITY OF MOBILE MAY REDUCE THE SIGN SIZE TO BETTER FIT ON MAST ARMS BETWEEN SIGNAL HEADS.

PAY ITEM 730-C ESTIMATED EQUIPMENT AND MATERIALS SCHEDULE (LUMP SUM)
MISCELLANEOUS HARDWARE
FYA SIGN WITH HARDWARE (1)
D3-1 SPEC SIGNS WITH HARDWARE (MAST ARM MOUNTED)(3)
R10-3E SIGN WITH HARDWARE (6)
NO. 14 AWG SIGNAL CABLE

SIGNAL PHASING DIAGRAM

1	2 (P9)	3 (P3)	4 (P10)
5 OMIT	6	7 OMIT	8 OMIT

SUPPORT STRUCTURES

POLE NO	POLE LOCATION STA	POLE LOCATION OFFSET	POLE HEIGHT (FT)	MAST ARM LENGTH (FT)	LUM ARM LENGTH (FT)
1	36+83.68	29.92' RT	37'	65' (MA-1) 50' (FMA-2)	12' (LUM-1)
2	37+80.40	36.49' LT	20'	45' (MA-3) 50' (MA-4)	12' (LUM-2)
PP-1	37+02.57	56.29' RT	10'	N/A	N/A
PP-2	36+94.26	33.06' LT	10'	N/A	N/A
PP-3	37+09.67	42.24' LT	10'	N/A	N/A
PP-4	37+79.65	52.47' RT	10'	N/A	N/A

NOTE: FMA-2 (FUTURE MAST ARM 2) WILL BE USED TO DESIGN POLE 1 AND POLE 1 FOUNDATION BUT WILL NOT BE INSTALLED AS A PART OF THIS PROJECT.

VIDEO DETECTION SCHEDULE (CURRUX VISION)

VIDEO DET UNIT (VDU)	VIDEO DET ZONE (VDZ)	PHASE	SIZE	OPER TYPE	CAMERA TYPE
VDU-3	VDZ-1	1	6 X 50	STOPBAR	TYPE 1B
VDU-1	VDZ-2A	2	6 X 6	ADVANCE	TYPE 1A
VDU-1	VDZ-2B	2	6 X 6	ADVANCE	TYPE 1A
VDU-3	VDZ-4A	4	6 X 50	STOPBAR	TYPE 1B
VDU-3	VDZ-4B	4	6 X 50	STOPBAR	TYPE 1B
VDU-2	VDZ-6A	6	6 X 6	ADVANCE	TYPE 1A
VDU-2	VDZ-6B	6	6 X 6	ADVANCE	TYPE 1A

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205.298.9200

TRAFFIC SIGNAL DESIGN AT MCGREGOR AVE AND SPRING HILL AVE

City of Mobile
652 Gayle Street
Mobile, Alabama 36604

Revision

No.	Date	Description

22" x 31" GRAPHIC SCALE: FEET
11" x 17" GRAPHIC SCALE: FEET

TRAFFIC SIGNAL LAYOUT SHEET

SHEET NO.	TOTAL SHEETS
49	64

100% PLAN SUBMITTAL

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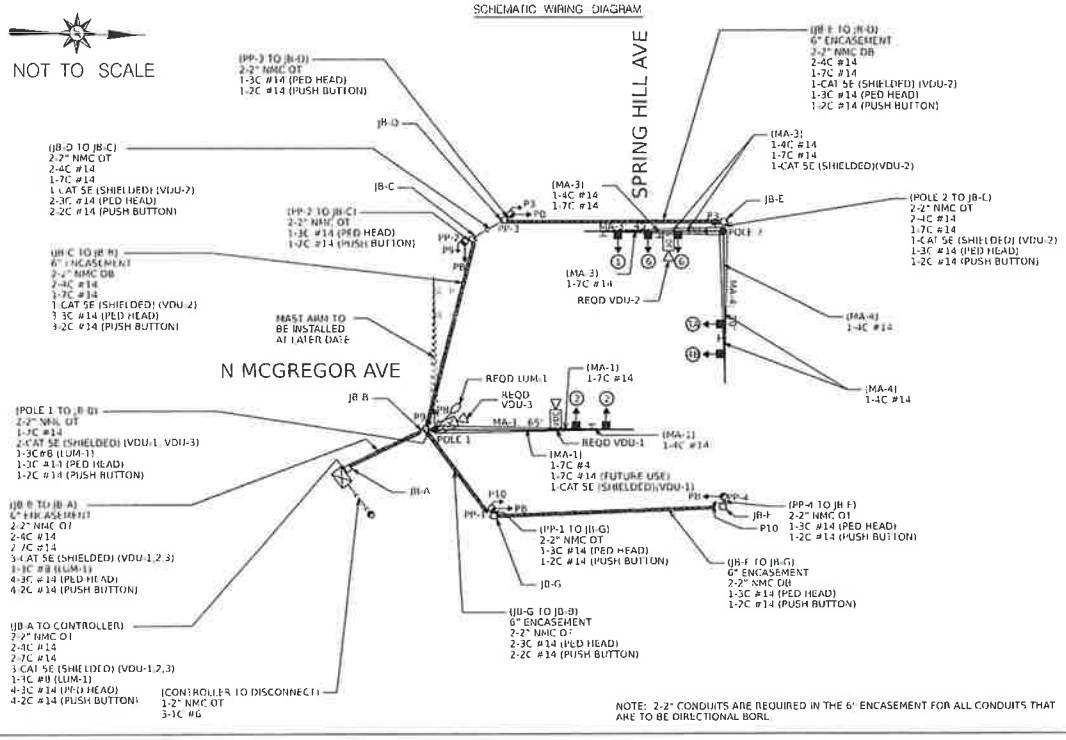
TRAFFIC SIGNAL LAYOUT SHEET

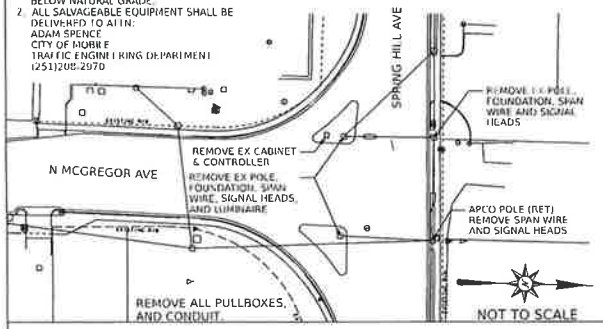
SCHEMATIC WIRING DIAGRAM



NOTE: 2-2" CONDUITS ARE REQUIRED IN THE 6" ENCASEMENT FOR ALL CONDUITS THAT ARE TO BE DIRECTIONAL BORE.

NOTES:
1. REMOVE FOUNDATION TO A DEPTH OF 1' BELOW NATURAL GRADE.
2. ALL SALVAGEABLE EQUIPMENT SHALL BE DELIVERED TO ATTN:
   ADAM SPENCE
   CITY OF MOBILE
   TRAFFIC ENGINEERING DEPARTMENT
   (251)208-2970

REMOVAL DIAGRAM



LEGEND	
A	T.S.D.-730-1
B	T.S.D.-730-2B
C	T.S.D.-730-4
D	T.S.D.-730-9
E	T.S.D.-730-9A
F	T.S.D.-730-10
G	T.S.D.-730-12
H	T.S.D.-730-13
I	T.S.D.-730-14
J	T.S.D.-730-18

LEGEND

(#) SIGNAL HEAD PHASE NUMBER
P# PEDESTRIAN SIGNAL PHASE NUMBER
PP-# PEDESTRIAN POLE NUMBER
VDU-# VIDEO DETECTION ZONE NUMBER
VDU-# VIDEO DETECTION UNIT

ABBREVIATION

MC	METALLIC CONDUIT
NMC	NON-METALLIC CONDUIT
DB	DIRECTIONAL BORE
OT	OPEN TRENCH
SC	STEEL CASING

TRAFFIC SIGNAL NOTES

1. ALL TRAFFIC SIGNAL WORK WILL COMPLY WITH THE 2026 SPECIFICATIONS AND 2026 STANDARD DRAWINGS OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT), THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (11TH EDITION)(MUTCD), AND AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (2018 GREEN BOOK)(AASHTO).
2. ALL STREET AND SITE CONSTRUCTION WILL COMPLY WITH STANDARD SPECIFICATIONS AND DETAILS OF THE CITY OF MOBILE, ALABAMA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO LOCATE ALL OVERHEAD AND UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. DAMAGE TO UTILITES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY AND THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COST TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.
4. THE UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND BASED ON FIELD EVIDENCE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION ACTIVITIES.
5. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL MEET WITH THE CITY TRAFFIC ENGINEER TO COORDINATE THE CONSTRUCTION OF THE SIGNAL AND SCHEDULE.
6. THE CITY OF MOBILE RESERVES THE RIGHT TO RESPOND TO TRAFFIC CONTROL UNIT MALFUNCTIONS IN AN EMERGENCY OR NATURAL DISASTER. IN DOING SO, THE CONTRACTOR'S LIABILITY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC UNIT(S) OR SYSTEM REMAINS IN EFFECT.
7. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO THE CITY OF MOBILE. THIS SHALL INCLUDE CATALOG CUTS OF INSTALLED EQUIPMENT. THE CONTRACTOR SHALL ALSO PROVIDE SIGNAL DIAGRAM SHOWING THE SIGNAL PHASING, AND VEHICULAR DETECTION LOCATIONS. THIS SHALL BE LOCATED IN THE SIGNAL CONTROLLER CABINET.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL NECESSARY TRAFFIC CONTROL DEVICES AS REQUIRED BY THE MUTCD.
9. CONTRACTOR IS RESPONSIBLE FOR DESIGNING TRAFFIC SIGNAL POLE FOUNDATIONS. FOUNDATIONS TO BE APPROVED BY ENGINEER BEFORE CONSTRUCTION BEGINS.
10. THE CITY OF MOBILE HAS RECENTLY RETIMED THIS TRAFFIC SIGNAL AND WILL PROVIDE THE DESIGN TIMINGS TO THE CONTRACTOR TO INPUT INTO THE CONTROLLER. THE CITY OF MOBILE WILL BE RESPONSIBLE FOR FINE-TUNING THE TRAFFIC SIGNAL TIMINGS FOR THIS INTERSECTION.
11. ALL DISTURBED SOIL SHALL BE RESTORED TO UNIFORM APPEARANCE AND SODDED, AS PER PLANS.
12. THE FINAL MAST ARM POLE LOCATIONS SHALL BE STAKED IN THE FIELD BY THE CITY OF MOBILE. UTILITY COMPANIES SHALL BE CONTACTED PRIOR TO THIS. THE CONTRACTOR SHALL VERIFY THAT NO UNDERGROUND UTILITY LINES SHALL BE DISTURBED DURING THE CONSTRUCTION OF THE SIGNAL POLE FOUNDATIONS.
13. THE TRAFFIC SIGNAL POLE SHALL PROVIDE A CLEAR ZONE OF TWO (2) FEET FROM THE BACK OF CURB OR TEN (10) FEET FROM THE EDGE OF PAVEMENT STRIPE (SHOULDER SECTION).
14. THE INSTALLED TRAFFIC SIGNAL POLE SHALL PROVIDE HEIGHTS SUFFICIENT TO ASSURE THAT THE LOWEST SIGNAL ON A MAST ARM IS TO BE 17'-0" ABOVE THE PAVEMENT WITH A MAXIMUM HEIGHT OF 20'-0".
15. ALL CONDUIT CONNECTIONS SHALL BE SEALED WITH A WEATHERPROOF SEALING COMPOUND.
16. EACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT ALL ARM LENGTHS ARE SUFFICIENT SO THAT EACH VEHICULAR SIGNAL HEAD POSITION CONFORMS TO THE MUTCD.
17. THE CONTRACTOR SHALL LOCATE EACH REQUIRED VEHICULAR TRAFFIC SIGNAL HEAD ON THE SPAN WIRE OR MAST ARM SO THAT EACH HEAD IS LOCATED IN THE APPROACH LANE FOR WHICH IT APPLIES. LOCATION OF SIGNAL HEADS SHALL CONFORM TO THE MUTCD.
18. THE POWER SOURCE LOCATED ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND THE SHORTEST ROUTE TO SERVE THE TRAFFIC SIGNAL CONTROLLER CABINET AND/OR LUMINAIRES.
19. THE CONTRACTOR SHALL FURNISH ALL MISCELLANEOUS HARDWARE AND EQUIPMENT FOR INSTALLING THE TRAFFIC SIGNAL CONTROL SYSTEM, SUCH AS BOLTS, NUTS, WASHERS, STEEL BARS, ETC.
20. WHEN THE SIGNAL IS IN FLASH MODE, THE SIGNALS SHALL FLASH YELLOW ON SPRING HILL AVENVUE AND RED ON MCGREGOR AVENUE, AND ON PROTECTED LEFTS.
21. THE CONTROLLER CABINET SHALL BE GROUNDED WITH A 5/8" DIAMETER X 10'-0" LONG COPPER CLAD GROUND ROD.
22. THE ESTIMATED EQUIPMENT AND MATERIALS SCHEDULE IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL CALCULATE AND DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE SIGNAL CONSTRUCTION.
23. EXISTING EQUIPMENT TO BE REMOVED SHALL BE REMOVED AFTER ACTIVATION OF NEW SIGNAL. ALL SALVAGEABLE EQUIPMENT SHALL BE DELIVERED TO ATTN: ADAM SPENCE, CITY OF MOBILE, TRAFFIC ENGINEERING DEPARTMENT (251) 208-2970.
24. MA-2 (MAST ARM 2) IS NOT BE INSTALLED AS PART OF THIS PROJECT. HOWEVER, THE LENGTH AND WEIGHT OF MA-2 SHALL BE USED TO DESIGN POLE #1 AND POLE #1 FOUNDATION
25. PER CITY OF MOBILE STANDARD SIGNAL INSTALLATIONS, SIGNAL POLES SHALL BE VALMONT TAPERED POLES WITH 16-SHARP FLUTES (FL210) WITH 15' ATTACHMENT HEIGHT FOR MAST ARMS OR APPROVED EQUAL. DECORATIVE PINEAPPLE FINIAL AND DECORATIVE SHALL BE INCLUDED IN THE INSTALLATION. ALL FINISHES TO BE POWDER-COATED BLACK. THE MAST ARMS ARE UPSWEPT WITH A 5' RISE.
26. LAMPS USED IN TRAFFIC SIGNAL HEADS SHALL BE LED AND SHALL CONFORM TO THE LATEST ITE STANDARDS AND BE APPROVED BY THE CITY OF MOBILE.
27. SIGNAL HEADS: SHALL BE BLACK IN COLOR.
28. SIGNAL HEADS: SHALL HAVE TUNNEL VISORS. THE EXTERIOR SHALL BE BLACK AND THE INTERIOR SHALL BE BLACK.
29. VIDEO DETECTION SYSTEM: SHALL BE CURRUX VISION (6-STREAM). FISH-EYE CAMERA (TYPE 1B) FOR STOP BAR DETECTION AND (2) AXIS BULLET CAMERAS (TYPE 1A) FOR ADVANCED ZONES ON SPRINGHILL AVE. FISH-EYE CAMERA SHALL BE AXIS MODEL M4318 PLVE WITH A TYPE 1B CAMERA MOUNTING BRACKET. BULLET CAMERAS SHALL BE AXIS Q1467-LE. ALL MOUNTING HARDWARE SHALL BE INCLUDED. SEE SHEET 50A FOR CURRUX VISION DETAIL.
30. CONTROLLER: SHALL BE ECONOLITE COBALT SHELF-MOUNT WITH CURRENT FIRMWARE.
31. CABINET: SHALL BE NEMA TS2-1 WITH 16 CHANNELS.
32. PUSH BUTTONS: SHALL BE APS STYLE AND MEET REQUIREMENTS OF ADA, PROWAG, AND ALDOT.

Gresham Smith

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TRAFFIC SIGNAL DESIGN AT MCGREGOR AVE AND SPRING HILL AVE

City of Mobile
850 Dauphin Street
Mobile, Alabama 36604

Revision

No.	Date	Description

NOT TO SCALE

TRAFFIC SIGNAL LAYOUT SHEET

SHEET NO.	TOTAL SHEETS
50	64

100% PLAN SUBMITTAL

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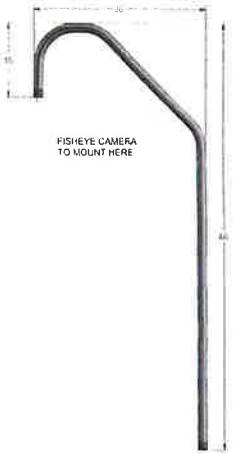
VIDEO DETECTION SPECIAL DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
2025-3005-20	2026	50A



FISHEYE TYPE 1B CAMERA MOUNTING BRACKET (SHEPPARD'S HOOK)

NOT TO SCALE

NOTES

1. TYPE 1A (BULLET CAMERA) DETECTORS ARE GENERALLY USED FOR LARGE MAST ARM INSTALLATION OR WHERE ADVANCE DETECTION IS REQUIRED. THESE ARE USUALLY INSTALL ONE PER APPROACH. TYPE 1B (FISHEYE CAMERA) DETECTORS ARE GENERALLY USED FOR SPAN WIRE INTERSECTIONS OR SMALLER LOW SPEED MAST INTERSECTIONS. THEY GENERALLY ONLY USE ONE CAMERA PER INTERSECTION.

2. CAMERA SHOULD BE MOUNTED AT LEAST 35' HIGH WHEN USING TALL SHAFT AND NO LESS THAN 22' WHEN USING SHORT SHAFT

3. MAST ARM MOUNTS ARE ONLY ACCEPTABLE IF THE CAMERA CAN BE LOCATED NEAR THE CENTER WITH NO OCCLUSION

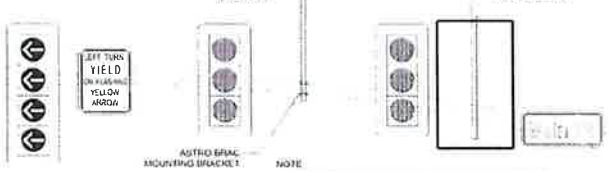
4. CAMERA MUST BE LESS THAN 75' FROM THE INTERSECTION CENTER WHEN MOUNTED ON LUMINAIRE ARM WITH NO MORE THAN 150' FROM FURTHEST STOP BAR AND 50' ON MAST ARM WITH NO MORE THAN 100' FROM FURTHEST STOP BAR.

5. CAMERA SHOULD BE LOCATED IN FRONT OF ALL STOP LINES WITH LEAST AMOUNT OF OCCLUSION

6. INSTALLER SHALL AIM FOR BEST "HEAD-ON" VIEW OF ALL APPROACHES

7. CAMERA RESISTANCE TO GROUND EQUAL TO OR LESS THAN 25 ohms

8. FISHEYE CAMERA HAS APPROXIMATELY 150' TRACKING RADIUS MOUNTED ON MAST ARM, 200' ON LUMINAIRE ARM.

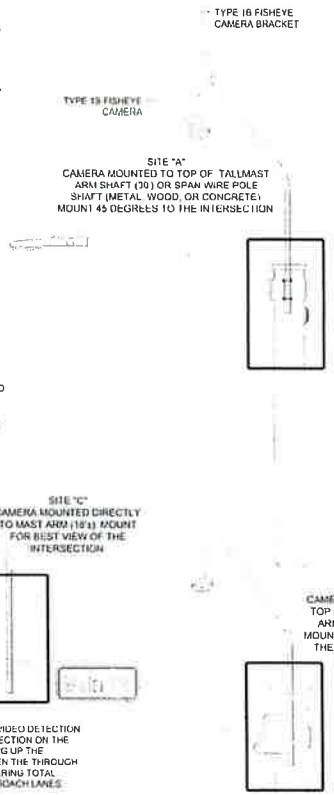


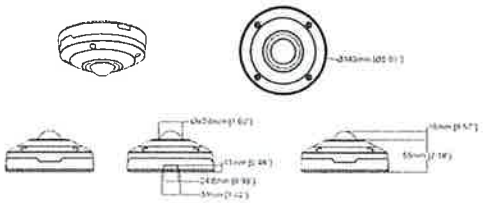
NOTE

TYPICAL BEST ALIGNMENT FOR TYPE 1A VIDEO DETECTION CAMERA TO BE USED FOR ADVANCE DETECTION ON THE SIGNAL MAST ARM INSTALLATION IS LINING UP THE CAMERA ON THE SKIP LANE LINE BETWEEN THE THROUGH LANES FOR 3 LANE APPROACH OR CENTERING TOTAL APPROACH LANES FOR NON 3 LANE APPROACH LANES

TYPE 1 VIDEO SENSOR CAMERA PLACEMENT

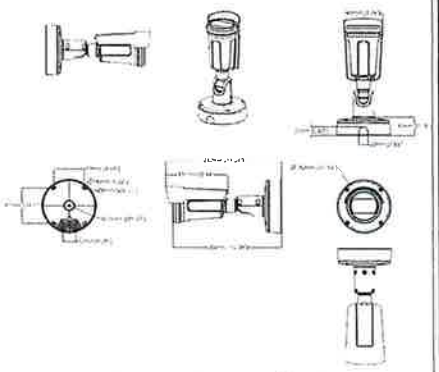
NOT TO SCALE





TYPICAL TYPE 1B VIDEO DETECTION CAMERA

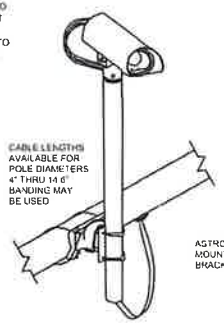
NOT TO SCALE



TYPICAL TYPE 1A VIDEO DETECTION CAMERA

NOT TO SCALE

DETAIL A



NOTE

TYPICAL TUBE LENGTH IS 72"

TYPE 1A VIDEO DETECTION EXTENSION BRACKET

NOT TO SCALE

GENERAL NOTES.

1. TYPE 1 VIDEO VEHICLE DETECTION PROCESSOR MAY USE A WIDE VARIETY OF CAMERAS, EITHER EXISTING OR SUPPLIED NEW. TYPE 1 SENSORS SHOWN ON THIS SHEET ARE TYPICAL AND SUPPLIED EQUIPMENT MAY DIFFER. PROCESSORS MAY COME WITH ETHERNET PORTS OR COAX PORTS DEPENDING ON THE TYPE OF CAMERA USED

2. PROCESSOR SHALL UTILIZE EITHER MULTIPLE FIXED VIEW CAMERAS OR A SINGLE FISHEYE CAMERA DEPENDING ON THE LAYOUT OF THE INTERSECTION. PAY ITEM INCLUDES ALL EQUIPMENT NEEDED FOR A COMPLETE AND OPERABLE DETECTION SYSTEM. THIS INCLUDES ANY SWITCHES, INJECTORS, ARRESTORS, CABLES, ETC. THAT MAY BE REQUIRED

3. SENSORS SHALL BE EITHER TYPE 1A (BULLET CAMERA) OR TYPE 1B (FISHEYE CAMERA)

4. THE CONTRACTOR SHALL FIELD VERIFY CAMERA SITE LOCATION AND ORIENTATION FOR COMPLETE COVERAGE OF ROADWAY DETECTION ZONES PRIOR TO INSTALLING CAMERAS

5. DETECTION CABLE SHALL SUPPLY BOTH POWER AND COMMUNICATIONS. POWER AND COMMUNICATIONS CABLE SHALL EITHER BE CAT-5E OR CAT-6, OUTDOOR RATED. SHIELDED CABLE. MEASUREMENT WILL BE COMPUTED HORIZONTALLY AND VERTICALLY ALONG THE POLE

6. INSTALL VIDEO DETECTION PROCESSOR UNIT(S) INSIDE CONTROLLER CABINET UNLESS OTHERWISE NOTED ON PLANS.

7. AIM THE CAMERA SO THE HORIZON IS NOT VISIBLE IN THE FIELD OF VIEW.

8. INSURE WATER -TIGHT CABLE ENTRY AND EXIT POINTS FOR CONNECTIONS

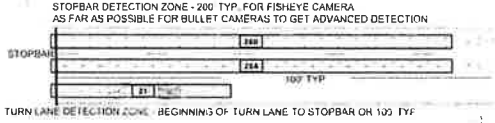
9. CONTRACTOR TO USE MANUFACTURE'S SUPPLIED OR APPROVED CABLE, CONNECTIONS AND MOUNTING HARDWARE.

10. DETECTION SUPPLIER TO ASSIST CONTRACTOR WITH INFORMATION ON BEST MOUNTING POSITION (LOCATION ON ARM, MOUNTING HEIGHT, ETC.)

11. SURGE PROTECTION DEVICES SHALL BE PROVIDED FOR ALL NEW OR ADDED VIDEO DETECTION DEVICES AS RECOMMENDED BY THE MANUFACTURER.

12. ALL DETECTION UNITS SHALL BE NETWORKABLE DEVICES AND BE ON THE MDOT / CITY NETWORK IF NOTED ON PLANS

STOPBAR DETECTION ZONE - 200' TYP. FOR FISHEYE CAMERA
AS FAR AS POSSIBLE FOR BULLET CAMERAS TO GET ADVANCED DETECTION



TURN LANE DETECTION ZONE - BEGINNING OF TURN LANE TO STOPBAR OR 100' TYP

DETECTION ZONES

NOT TO SCALE

NOTES

1. STOP BAR DETECTION ZONES FOR THRU LANES SHOULD BE 200' TYPICAL FOR FISHEYE (TYPE 1B DETECTOR) FOR FIXED BULLET (TYPE 1A DETECTOR) ZONE SHALL EXTEND AS FAR AS POSSIBLE TO ACHIEVE ADVANCED DETECTION

2. STOP BAR DETECTION ZONES FOR TURN LANES SHOULD BE FROM THE BEGINNING OF THE LANE TO JUST PAST THE STOP BAR OR 100' TYPICAL.

3. A SINGLE DETECTION ZONE SHOULD COVER ONE LANE. ZONES SHOULD BE SET UP SO THAT INDIVIDUAL ZONES ARE SHOWN FOR EACH LANE.

4. DETECTION ZONES MAY SLIGHTLY OVERLAP

5. ASSIGN PHASE INPUTS TO WIRED PHASES ONLY, I.E. STOP- LINE PRESENCE ZONES

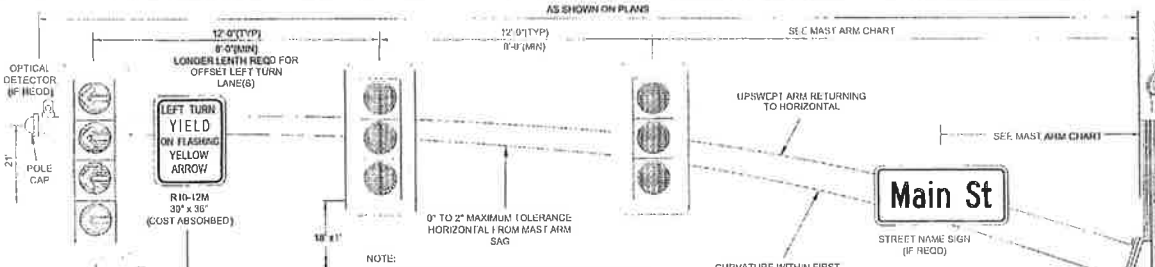
RESPONSIBLE PE	SUPERVISOR	DESIGNER	PLAN SUBMITTAL	CITY OF MOBILE	NOT TO SCALE	SHEET TITLE	ROUTE
DATE	DATE	DATE	100% DESIGN			VIDEO DETECTION SPECIAL DETAILS	CITY OF MOBILE

Appendix B

Example Pole and Mast Arm Drawings

SPECIAL PROJECT DETAIL - DECORATIVE MAST ARM AND PEDESTAL POLE

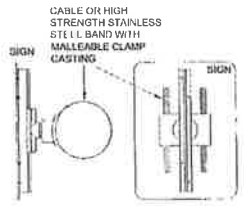
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPMD-7508 (600)	2023	179



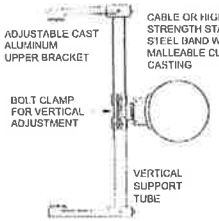
NOTE:
DIMENSIONS ON MAST ARM TO BE STRICTLY ADHERED TO, INCLUDING HORIZONTAL TOLERANCES AND SAGS, ANY POLE FAILING TO MEET THESE DIMENSIONS WILL BE REJECTED.

NOTES:

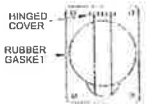
1. WIRE ENTRANCE TO MAST ARM WILL BE FIELD DRILLED TO CORRESPOND TO THE LOCATION OF THE SIGNAL HEADS WHEN ALIGNED IN FIELD.
2. RED SECTION INDICATIONS OF SIGNAL HEADS TO BE APPROXIMATELY SAME HEIGHT.
3. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE POLE MANUFACTURER.
4. #6 COPPER GROUND WIRE INSIDE POLE AND MAST ARM TO BE COST ABSORBED.



MAST ARM SIGN BRACKET
(TYPICAL)



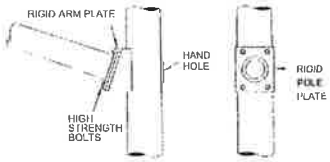
SIGNAL MOUNTING BRACKET
(TYPICAL)



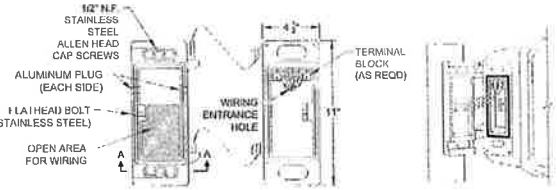
OUTLET BOX WITH SINGLE 15 AMP - 125 VOLT POLARIZED RECEPTACLE (GROUNDING TYPE)

OUTLET DETAIL

NOTE:
LUMINAIRE SHALL BE LED, 4000K COLOR TEMPERATURE, TYPE IV DISTRIBUTION, AND 120 VOLTS CAPABLE OF PRODUCING A MINIMUM OF 6,750 LUMENS. FINISH SHALL MATCH MAST ARM COLOR (ALL COST ABSORBED).
PHOTO CELL TO BE PROVIDED BY THE CONTRACTOR (COST ABSORBED)
LUMINAIRE CABLE WILL BE MEASURED BY THE LINEAR FOOT, MEASURED HORIZONTALLY ALONG THE CONDUIT, MESSENGER CABLE OR LUMINAIRE ARM AND VERTICALLY ALONG THE POLE.

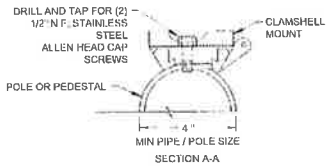


MAST ARM ATTACHMENT DETAIL

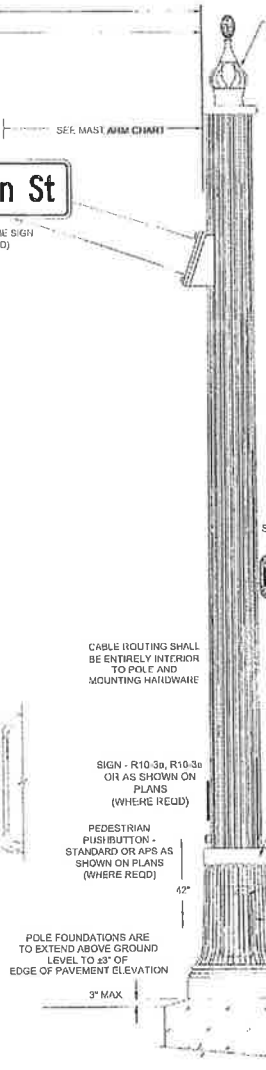


SEMI-FLUSH HANDHOLE DETAIL

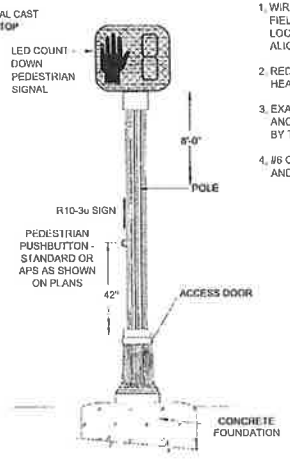
NOTE:
HANDHOLE TO BE ORIENTED AWAY FROM ON COMING TRAFFIC AND NOT ON THE SAME SIDE AS PED PUSHBUTTON IF POSSIBLE.



HINGED PEDESTRIAN HEAD MOUNTING BRACKET
(CLAM SHELL)

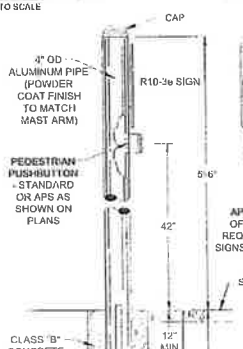


STEEL "DECORATIVE" TYPE MAST ARM POLE DETAIL
NOT TO SCALE



PEDESTAL POLE DETAIL
NOT TO SCALE

OFF-SET ADAPTER BRACKET

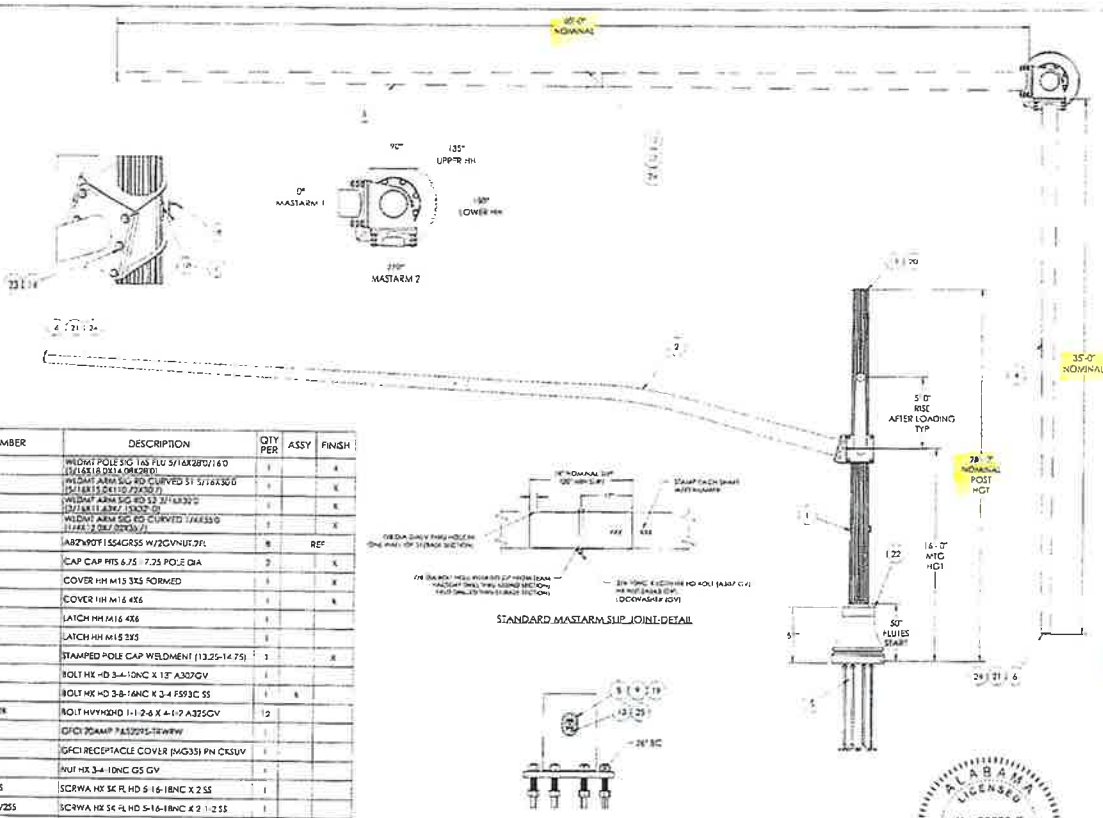


APS PUSHBUTTON OFF-SET BRACKET REQUIRED TO MOUNT SIGNS SIDE BY SIDE FOR 2 BUTTONS

PEDESTRIAN PUSHBUTTON POLE DETAIL
NOT TO SCALE

PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION MCGREGOR AVENUE WIDENING FROM AIRPORT BOULEVARD TO DAUPHIN STREET	NTS	SHEET TITLE SPECIAL PROJECT DETAIL DECORATIVE MAST ARM AND PEDESTAL POLE	ROUTE

730F000(B)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER	ASSY	FINISH
	1066551	WELDMT POLE SIG 16S FLU 5/16X28'0/16'0 (5/16X18 DX14.0X28'0)	1		X
2	1066555	WELDMT ARM SIG RD CURVED 51 5/16X30'0 (5/16X15.0X11'0 /2X30'7)	1		X
3	1066557	WELDMT ARM SIG RD 52 3/16X30'0 (3/16X11.0X7.15X27.0)	1		X
4	1066558	WELDMT ARM SIG RD CURVED 1/4X35'0 (1/4X7.2 DX7.0X35.0)	1		X
5	460A579 SDNPW	1A82X90T1 SS4GR55 W/2GVNUT.2FL	8	REF	
6	9800193-75	CAP CAP FITS 6.75 - 7.25 POLE DIA	2		X
7	8800267	COVER HH M15 3X5 FORMED	1		X
8	9900029-GV	COVER HH M16 4X6	1		X
9	9900030	LATCH HH M16 4X6	1		
10	9900037	LATCH HH M15 2X5	1		
11	9900210	STAMPED POLE CAP WELDMENT (13.25-14.75)	1		X
12	BOLTA3/4-10X13'L	BOLT HX HD 3-4-10NC X 13" A307GV	1		
13	BOLTA3/8-16X3/4A	BOLT HX HD 3-8-16NC X 3-4 F593C SS	1	X	
14	BOLTB1-1/2-6X4-1/2A	BOLT HVYHXDHD 1-1-2-6 X 4-1-2 A325GV	12		
15	FL-20-2	GFCI 20AMP PA52595-TRWRW	1		
16	EL-50-1	GFCI RECEPTACLE COVER (MG35) PN CKSUV	1		
17	NUTHX3/4-10GSGV	NUT HX 3-4-10NC GS GV	1		
18	SCRWAS/16-18X2"SS	SCRWA HX SE FL HD S-16-18NC X 2 SS	1		
19	SCRWAS/16-18X2-1/2SS	SCRWA HX SE FL HD S-16-18NC X 2 1-2 SS	1		
20	SCRWM1/4-20X1-1/4SS	SCRW SI SQ HD 1-4-20NC X - 1-4 SS	3		
21	SCRWN1/4-20X3"SS	SCRWS, IDR-DMACH 1-4-20NC X3 ASME B18.6.3 SS	2		
22	SOUTH COAST-BCHUN4851	MOUNTING ON RD 3X43 DI CO CAST ALUMINUM BASE	1		X
23	WASHFLAT1-1/2GV	WASHER FLAT 1-1/2 SAE ASTM F436 GV	12		
24	WASHFLAT1/4SS	WASHER FLAT 1/4 SS 5/8 OD ASME B18.22.1 SS	2		
25	WASHFLAT3/8BRASS-001	WASHFLAT3-8BRASS 001	2	X	
26	WASHLOCK3/4GV	WASHER LOCK 3/4 ANSI B18.21.1 GV	1		

REVISIONS

REV	DESCRIPTION	DATE	DRFT

MATERIAL SPECIFICATIONS

POST: ASTM A570 GR55
BASE PLATE: ASTM A709 GR36
MAST ARM: ASTM A572 GR50
MOUNTING PLATE: ASTM A709 GR36
HARDWARE FINISH: ASTM A153
ANCHOR BOLTS: ASTM F1554 GR 55 WD 2

DESIGN CRITERIA

2009 AASHTO standard specifications for structural supports for highway signs, luminaires, and traffic signals, 100 MPH wind, ARP II, Fatigue Category II, Without no galloping without gusts

WELD SPECIFICATION

THE POST AND MAST ARM TO BE TAPERED FUSE FABRICATION WITH ONE SUBMERGED ARC LONGITUDINAL SEAM WELD WITH 100% PENETRATION & FROM BASE PLATE AND 60% FOR REMAINDER. GAS METAL ARC WELDING PROCESS WITH 60% PENETRATION MAY BE USED FOR REMAINDER OF WELDED FABRICATION

WELD TESTING: 100% OF ALL WELDS VISUAL TESTED (VT), 100% OF ALL COMPLETE JOINT PENETRATION (CJP) WELDS ULTRASONIC TESTED (UT) BASED ON THE THINNEST MATING MATERIAL: PER AASHTO 2013 3.13.5 WELD INSP THICKNESS
< 6MM (0.25 IN) NT
≥ 6MM (0.25 IN NT
A RANDOM 30% OF ALL FILLET WELDS AND PARTIAL JOINT PENETRATION (PJP) LONGITUDINAL SEAM WELDS MAGNETIC PARTICLE TESTED (MT)

FINISH SPECIFICATION

GALV. OR PRIME COAT: HOT DIP GALV PER ASTM A123
FINISH COAT: PAINT
COLOR: VERIFY COLOR
FEDERAL OR AAL SPEC:
WEIGHT W/GALV: 7242.4
WEIGHT W/GALV.&PAINT: 7532.1
SURFACE AREA: 1633/17.3
GAL. OF PAINT: 5.3/14.0

MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395

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SALES ORDER NO:	QTY	STATE	SHEET
205809	1	AL	1 OF 1

DESCRIPTION: SUB POLE SIG 16SFLU TW 5/16X28'0/16'0 W/600 & 350 CURVED MASTARMS

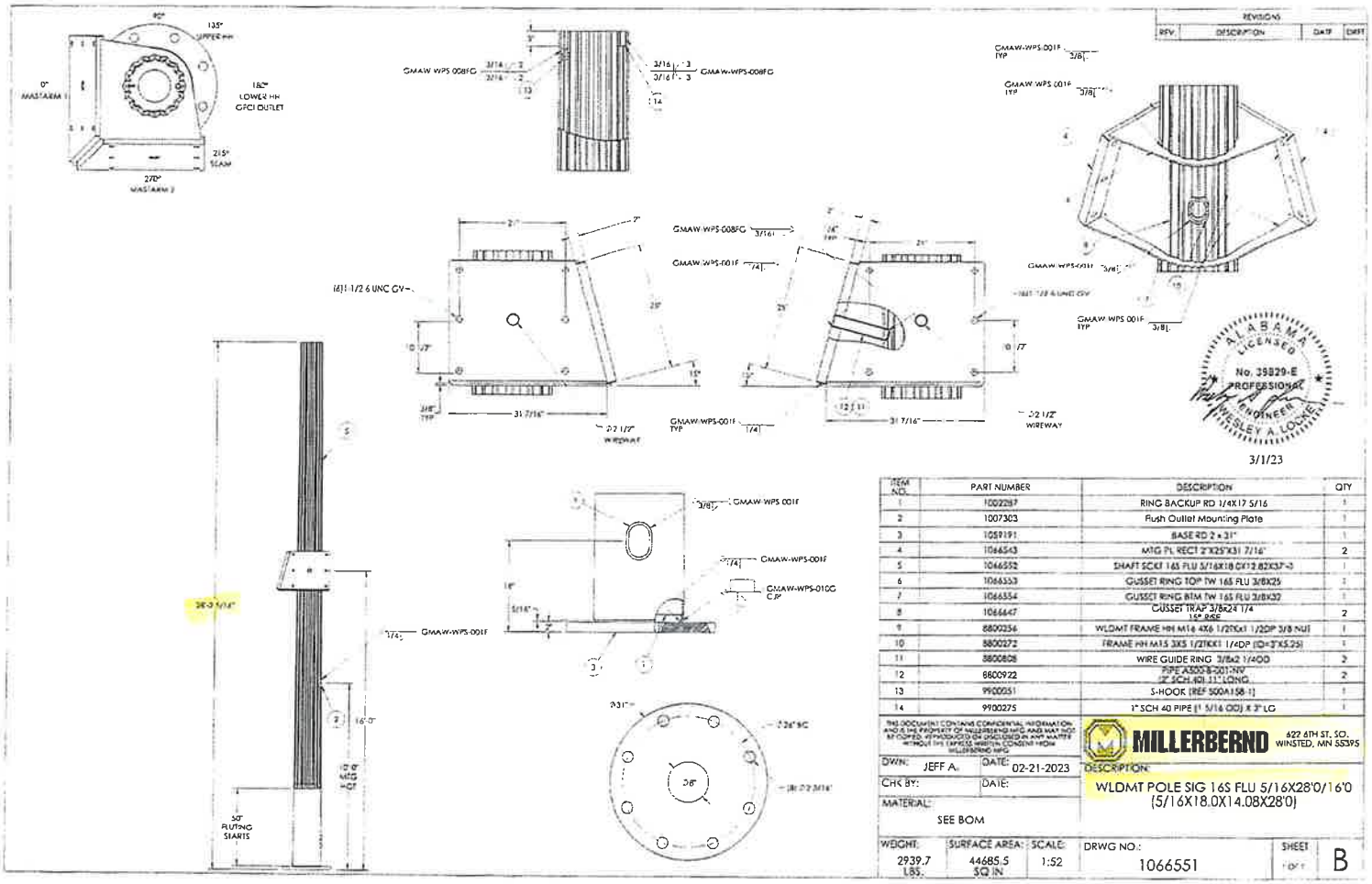
EST. WEIGHT:	DRAWING NO:
7242.4	205809-6

PROJECT NAME: PO 23-15576/ALDOT Mobile Co McGregor Roundabout/ SLTS 6-2172

PROJECT LOCATION: AL

DWN BY: JEFF A. DATE: 02-21-2023
CHK BY: DATE:

ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	1002287	RING BACKUP RD 1/4X17 5/16	1
2	1007303	Flush Outlet Mounting Plate	1
3	1059191	BASE RD 2 x 31"	1
4	1066543	MTG PL RECT 2"X25"X31 7/16"	2
5	1066552	SHAFT SCKT 16S FLU 5/16X18 OX12.82X37-3	1
6	1066553	GUSSET RING TOP TW 16S FLU 3/8X25	1
7	1066554	GUSSET RING BTM TW 16S FLU 3/8X32	1
8	1066647	GUSSET TRAP 3/8X24 1/4 15° BSE	2
9	8800256	WLDMT FRAME HH M16 4X6 1/2TKX1 1/2DP 3/8 NUT	1
10	8800272	FRAME HH M15 3X5 1/2TKX1 1/4DP (ID=3"X5.25)	1
11	8800808	WIRE GUIDE RING 3/8x2 1/4OD	2
12	8800922	PIPE A500-B-001-NV 2" SCH 40 11" LONG	2
13	9900051	S-HOOK (REF 500A158-1)	1
14	9900275	1" SCH 40 PIPE (1 5/16 OD) X 3" LG	1

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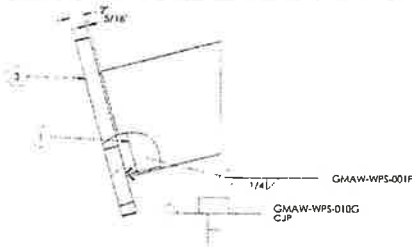
MILLERBERND
622 6TH ST. SO.
WINSTED, MN 55395

DWN: JEFF A.	DATE: 02-21-2023	DESCRIPTION: WLDMT POLE SIG 16S FLU 5/16X28'0/16'0 (5/16X18.0X14.08X28'0)
CHK BY:	DATE:	
MATERIAL: SEE BOM		

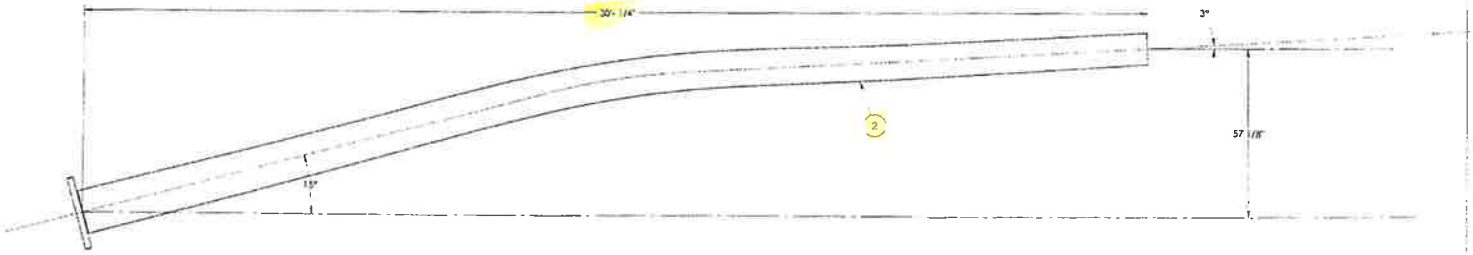
WEIGHT:	SURFACE AREA:	SCALE:	DRWG NO.:	SHEET
2939.7 LBS.	44685.5 SQ IN	1:52	1066551	B

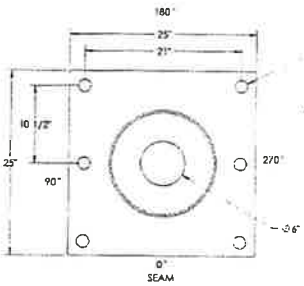
REVISIONS				
REV.	CHNG#	DESCRIPTION	DATE	DRFT

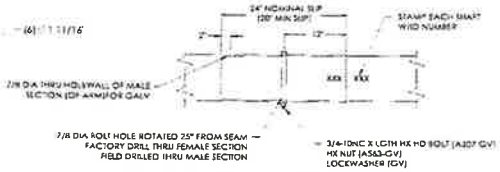


ALABAMA LICENSED PROFESSIONAL ENGINEER No. 39829-E WESLEY A. LOCKE

3/1/23







DETAIL - MASTARM SLIP JOINT

REM. NO.	PART NUMBER	DESCRIPTION	QTY
1	1002224	RING BACKUP 1/4X14 5/16	1
2	1066556	SHAFT RD CHMFR S1 5/16X17.0X10.72X30-/"	1
3	1058316	MTG PL ARM SQ 2" X 25"	1

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MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395

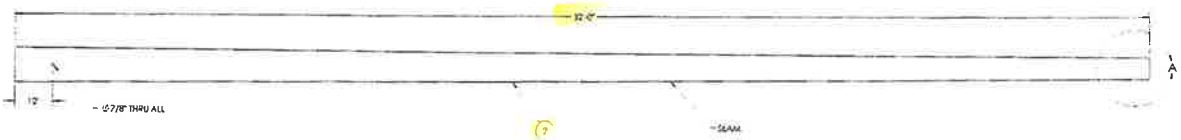
DWN: JEFF A.	DATE: 02-21-2023	DESCRIPTION: WLDMT ARM SIG RD CURVED S1 5/16X30'0 (5/16X15.0X110.72X30'7)	
CHK BY:	DATE:		
MATERIAL: SEE BOM			
WEIGHT: 1618.9 LBS.	SURFACE AREA: 30571.3 SQ IN	SCALE: 1:96	DRWG NO.: 1066555
SHEET 1 OF 1	B		

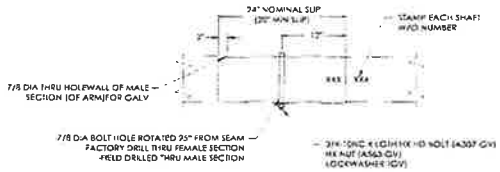
REVISIONS

REV.	DESCRIPTION	DATE	DRFT

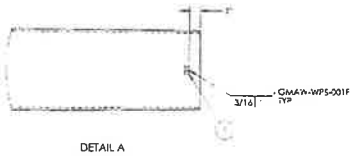
ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A LOCKEY

3/1/23





DETAIL- MASTARM SLIP JOINT



DETAIL A
SCALE 1 : 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1066559	BAR CABLE SUPPORT 3/8 X 6.625	1
2	1066652	SHAFT RD S2 3/16X11.63X7.15X32'-0	1

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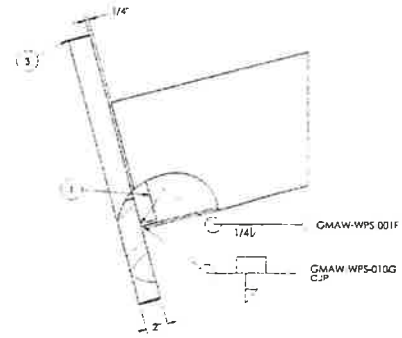
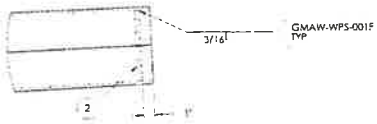
622 6TH ST. SO.
WINSTED, MN 55395

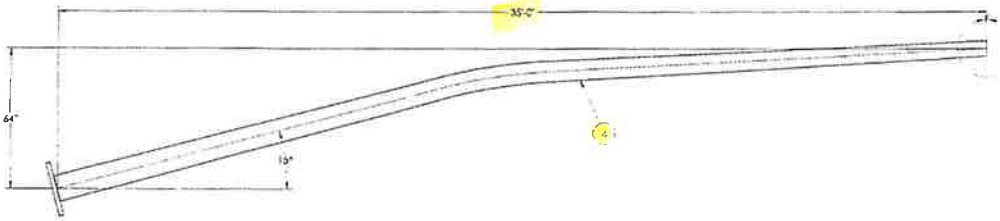
DWN: JEFF A.	DATE: 02-21-2023	DESCRIPTION: WLDMT ARM SIG RD S2 3/16X32'0 (3/16X11.63X7.15X32'-0)
CHK BY:	DATE:	
MATERIAL: SEE BOM		
WEIGHT: LBS.	SURFACE AREA: 22323.83 SQ IN	SCALE: 1:30
DRWG NO.: 1066557	SHEET 1 OF 1	B

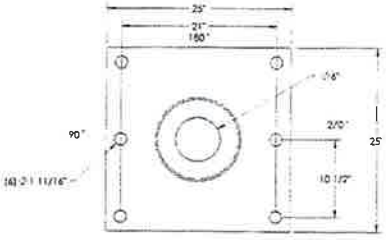
REVISIONS				
REV	CHNG#	DESCRIPTION	DATE	DRFT





DETAIL F
SCALE 1 : 8





0°
SEAM

ALABAMA LICENSED
No. 39829-E
PROFESSIONAL ENGINEER
WESLEY A. LOCKE

3/1/23

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1003436	RING BACKUP RD 1/4"X 11 7/16"	2
2	1049623	BAR CABLE SUPPORT 3/8 X 6.375	1
3	1058316	MTG PL ARM SQ 2" X 25"	1
4	1066559	SHAFT CHMFR RD CURVED 1/4X12.0X7.02X35'7	1

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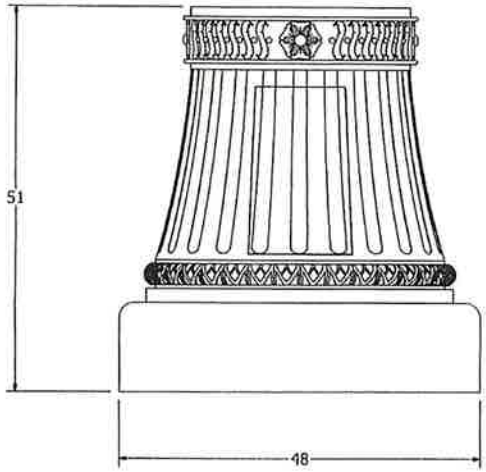
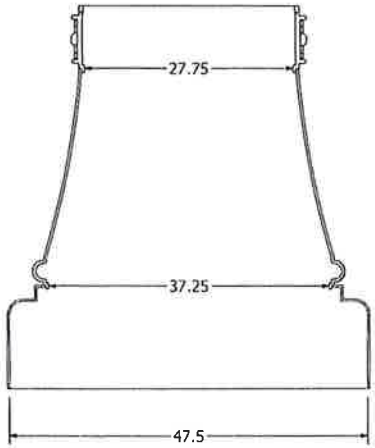
DWN: JEFF A.	DATE: 02-21-2023	DESCRIPTION: WLDMT ARM SIG RD CURVED 1/4X35'0 (1/4X12.0X7.02X35'7)	
CHK BY:	DATE:		
MATERIAL: SEE BOM			
WEIGHT: 1221.1 LBS.	SURFACE AREA: 26446.3 SQ IN	SCALE: 1:96	DRWG NO.: 1066558
SHEET 1 OF 1	B		



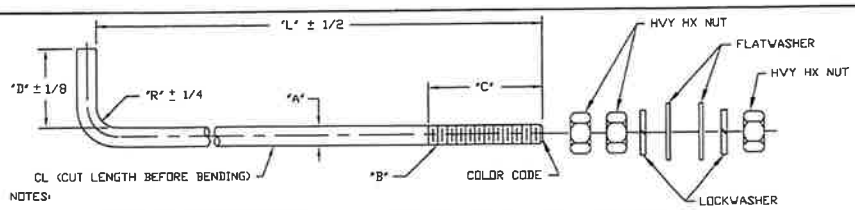


ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE

3/1/23

QTY:2

RR	5/27/2018	SOUTH COAST LIGHTING & DESIGN 232 AVENIDA FABRICANTE, STE. 109 SAN CLEMENTE, CA 92672 PH 949 276 8850 FX 949 276 8855 SALES@SOUTHCOASTLIGHTING.COM
MK		
JS		
MK		
		BCHUN4851
ALUMINUM		A — R-062718-2P
N/A		BASES — 1 of 1



ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE

3/1/23

NOTES:

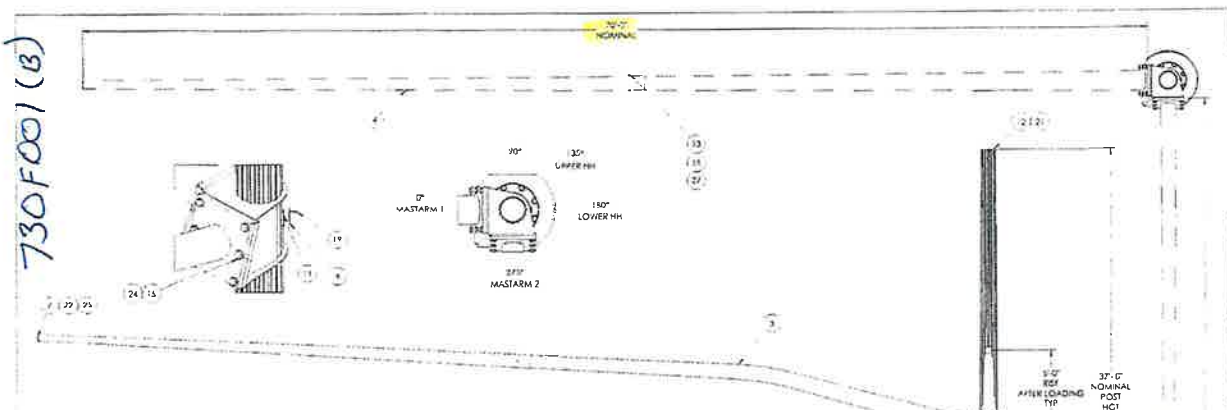
1. ANCHOR BOLT PER ASTM F1554 GRADE 55 S1 &/OR AASHTO M314-90 GRADE 55. YIELD STRENGTH = 55,000 PSI MIN YIELD TENSILE STRENGTH = 75,000-95,000 PSI
2. FULLY HOT DIP GALVANIZE PER ASTM A153.
3. THREAD TO BE CLASS 2A PER AMERICAN STD. B L1 .030 OVER SIZE AFTER GALVANIZING
4. ALL BOLTS ROLLED THREAD
5. GALVANIZED HEAVY HEX NUTS (A563GV) PER ASTM A563 GR DH (.030 OVER SIZE) OR (A194 2H EQUIVALENT)
6. NO WELDING IS ALLOWED ON ANCHOR BOLTS
7. GALVANIZED FLAT WASHERS PER ASTM F436.
8. GALVANIZED LOCKWASHERS
9. THE END OF ANCHOR BOLT TO PROJECT FROM THE CONCRETE PAINTED PER COLOR CODE

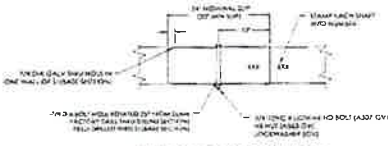
PART NO BOLT (ONLY)	PART NO BOLT W/3 NUTS, 2 LOCK & 2 FLAT WASHERS	PART NO BOLT W/3 NUTS & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS, 1 LOCK & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS 2 LOCK & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS & & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS	PART NO BOLT W/1 NUT	"A"	CL	"B" THD SIZE	"C" OFF KIN THD LG	"L"	"D"	"R"	COLOR CODE	QTY BOLTS	QTY NUTS	QTY LOCK WASHERS	QTY FLAT WASHERS
460A579-1	460A579-1TNV	460A579-1TNFV	460A579-1DNV	460A579-1DNLV	460A579-1DNFV	460A579-1DN	460A579-1N	.91	42"	1-8	6"	36"	4"	2 1/2	YELLOW				
460A579-2	460A579-2TNV	460A579-2TNFV	460A579-2DNV	460A579-2DNLV	460A579-2DNFV	460A579-2DN	460A579-2N	1.148	48"	1 1/4-7	8"	42"	6"	2 1/2	YELLOW				
460A579-3	460A579-3TNV	460A579-3TNFV	460A579-3DNV	460A579-3DNLV	460A579-3DNFV	460A579-3DN	460A579-3N	1.381	60"	1 1/2-6	10"	54"	6"	3 3/8	YELLOW				
460A579-4	460A579-4TNV	460A579-4TNFV	460A579-4DNV	460A579-4DNLV	460A579-4DNFV	460A579-4DN	460A579-4N	1.613	90"	1 3/4-5	10"	84"	6"	3 1/2	YELLOW				
460A579-5	460A579-5TNV	460A579-5TNFV	460A579-5DNV	460A579-5DNLV	460A579-5DNFV	460A579-5DN	460A579-5N	1.845	90"	2-4 1/2	10"	84"	6"	4"	YELLOW	41	82	41	82
460A579-6	460A579-6TNV	460A579-6TNFV	460A579-6DNV	460A579-6DNLV	460A579-6DNFV	460A579-6DN	460A579-6N	2.148	96"	2 1/4-4 1/2	12"	89"	7"	4 1/2	YELLOW				
460A579-7	460A579-7TNV	460A579-7TNFV	460A579-7DNV	460A579-7DNLV	460A579-7DNFV	460A579-7DN	460A579-7N	1.845	96"	2-4 1/2	10"	90"	6"	4"	YELLOW				
460A579-8	460A579-8TNV	460A579-8TNFV	460A579-8DNV	460A579-8DNLV	460A579-8DNFV	460A579-8DN	460A579-8N	1.148	48"	1 1/4-7	6"	36"	4"	2 1/2	YELLOW				
460A579-9	460A579-9TNV	460A579-9TNFV	460A579-9DNV	460A579-9DNLV	460A579-9DNFV	460A579-9DN	460A579-9N	1.148	51"	1 1/4-7	6"	43"	6"	2 1/2	YELLOW				
460A579-10	460A579-10TNV	460A579-10TNFV	460A579-10DNV	460A579-10DNLV	460A579-10DNFV	460A579-10DN	460A579-10N	1.381	66"	1 1/2-6	10"	60"	6"	3 3/8	YELLOW				
460A579-11	460A579-11TNV	460A579-11TNFV	460A579-11DNV	460A579-11DNLV	460A579-11DNFV	460A579-11DN	460A579-11N	1.148	48"	1 1/4-7	10"	42"	6"	2 1/2	YELLOW				
460A579-12	460A579-12TNV	460A579-12TNFV	460A579-12DNV	460A579-12DNLV	460A579-12DNFV	460A579-12DN	460A579-12N	1.381	60"	1 1/2-6	10"	54"	6"	3 3/8	YELLOW				
460A579-13	460A579-13TNV	460A579-13TNFV	460A579-13DNV	460A579-13DNLV	460A579-13DNFV	460A579-13DN	460A579-13N	.91	42"	1-8	6"	38"	4"	2 1/2	YELLOW				
460A579-14	460A579-14TNV	460A579-14TNFV	460A579-14DNV	460A579-14DNLV	460A579-14DNFV	460A579-14DN	460A579-14N	1.845	66"	2-4 1/2	10"	60"	6"	4"	YELLOW				
460A579-15	460A579-15TNV	460A579-15TNFV	460A579-15DNV	460A579-15DNLV	460A579-15DNFV	460A579-15DN	460A579-15N	1.148	54"	1 1/4-7	9"	48"	6"	2 1/2	YELLOW				
460A579-16	460A579-16TNV	460A579-16TNFV	460A579-16DNV	460A579-16DNLV	460A579-16DNFV	460A579-16DN	460A579-16N	.91	96"	1-8	6"	90"	4"	2 1/2	YELLOW				
460A579-17	460A579-17TNV	460A579-17TNFV	460A579-17DNV	460A579-17DNLV	460A579-17DNFV	460A579-17DN	460A579-17N	1.381	90"	1 1/2-6	10"	84"	6"	3 3/8	YELLOW				
460A579-18	460A579-18TNV	460A579-18TNFV	460A579-18DNV	460A579-18DNLV	460A579-18DNFV	460A579-18DN	460A579-18N	.91	46"	1-8	6"	42"	4"	2 1/2	YELLOW				
460A579-19	460A579-19TNV	460A579-19TNFV	460A579-19DNV	460A579-19DNLV	460A579-19DNFV	460A579-19DN	460A579-19N	1.381	80"	1 1/2-6	10"	72"	6"	3 3/8	YELLOW				
460A579-20	460A579-20TNV	460A579-20TNFV	460A579-20DNV	460A579-20DNLV	460A579-20DNFV	460A579-20DN	460A579-20N	1.148	90"	1 1/4-7	10"	84"	6"	2 1/2	YELLOW				
460A579-21	460A579-21TNV	460A579-21TNFV	460A579-21DNV	460A579-21DNLV	460A579-21DNFV	460A579-21DN	460A579-21N	1.613	80"	1 3/4-5	10"	72"	6"	3 1/2	YELLOW				
460A579-22	460A579-22TNV	460A579-22TNFV	460A579-22DNV	460A579-22DNLV	460A579-22DNFV	460A579-22DN	460A579-22N	1.148	96"	1 1/4-7	12"	90"	6"	2 1/2	YELLOW				
460A579-23	460A579-23TNV	460A579-23TNFV	460A579-23DNV	460A579-23DNLV	460A579-23DNFV	460A579-23DN	460A579-23N	1.381	96"	1 1/2-6	12"	90"	6"	3 3/8	YELLOW				
460A579-24	460A579-24TNV	460A579-24TNFV	460A579-24DNV	460A579-24DNLV	460A579-24DNFV	460A579-24DN	460A579-24N	1.613	96"	1 3/4-5	12"	90"	6"	3 1/2	YELLOW				

REV 12/12/22 ADDED -34 & -35 TO CHART (AS)
REV 01/31/19 CHANGED ALL A36 TO FULLY GALVANIZED TK
REV 2-26-18 ADDED SHEET -29 TO CHART - JD
REV 1-9-17 ADDED SHEET 2 AND -25 AND -26 TO CHART
REV 12-16-16 ADDED -22,-23 AND -24 TO CHART
REV 12-8-16 ADDED 460A579-21
REV 9-29-15 -18 "L" WAS 54"
REV 6-30-15 ADDED 460A579-13
REV 9-4-13 -9 CL WAS 40"
REV 11-20-11 CHANGE "C" ON -1 FROM 8" TO 6", "C" ON -3,-4 & -5 FROM 12" TO 10" AND "L" ON -6 FROM 90" TO 89" AND "D" FROM 6" TO 7"

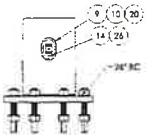
DWN: JAMIE D.	ANCHOR BOLTS
DATE: 08-16-11	F1554 GRADE 55 FULLY GALV
CHK: FLOYD F.	Millerbernd MANUFACTURING CO. WINSTED, MN
SCALE: NTS	SHEET 1 OF 2 460A579

730F001 (B)





STANDARD MASTARM SLIP JOINT DETAIL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER	ASSY	FINISH
1	1066541	WLDMT POLE SIG 16S FLU 3/8X37'0/16'0 (3/8X16 0X12 8X3'0)	1		X
2	1066546	WLDMT ARM SIG RD CURVED 1/4X45'0 (1/4X12 0X5 67X45'0)	1		X
3	1066548	WLDMT ARM SIG RD CURVED 5'1/16X35'0 (5/16X16 0X11 92X35'0)	1		X
4	1066550	WLDMT ARM SIG RD 52 3/16X37'0 (3/16X11 9X6 75X37'0)	1		X
5	460A579-5DNPW	A325-90 F1554GR55 W/2GVNUT,2FL	8	REF	
6	8800193-6	CAP CAP FITS 5.25 - 5.75 POLE DIA	1		X
7	8800193-75	CAP CAP FITS 6.75 - 7.25 POLE DIA	1		X
8	9800267	COVER HH M1.5 3X5 FORMED	1		X
9	9900029-GV	COVER HH M16 4X6	1		X
10	9900030	LATCH HH M16 4X6	1		
11	9900037	LATCH HH M1.5 3X5	1		
12	9900209	STAMPED POLE CAP WELDMENT (11.75-13.25)	1		X
13	BOLTA3/4-10X13'0	BOLT HX HD 3-4-10NC X 13' A307GV	1		
14	BOLTA3/8-16X3/4A	BOLT HX HD 3-8-16NC X 3-4 F593C SS	1	X	
15	BOLTB1-1/2-6X4-1/2B	BOLT HVYHXHD 1-1-2-6 X 4-1-2 A325GV	12		
16	EL-20-2	GFCI 20AMP P63209S-TRWRW	1		X
17	EL-SC-1	GFCI RECEPTACLE COVER (MG35) PN CKSUV	1		X
18	NUTHX3/4-10GSGV	NUT HX 3-4-10NC GS GV	1		
19	SCRWAS/16-18X2'SS	SCRWA HX SK FL HD 5-16-18NC X 2 SS	1		
20	SCRWAS/16-18X2-1/2SS	SCRWA HX SK FL HD 5-16-18NC X 2-1-2 SS	1		
21	SCRWM1/4-20X1-1/4SS	SCRW ST SQ HD 1-4-20NC X 1 1-4 SS	3		
22	SCRWN1/4-20X3'SS	SCRWSLOTPHMACH 1-4-20NC X3 ASME B18.6.3 SS	2		
23	SOUTH COAST-BCHUN4851	HUNTINGTON RD 3142 DLCD CAST ALUMINUM BASE	1		X
24	WASHFLAT1-1/2GV	WASHER FLAT 1-1/2 SAE ASTM F436 GV	12		
25	WASHFLAT1/4SS	WASHER FLAT 1/4 SS 5/8 OD ASME B18.22.1 SS	2		
26	WASHFLAT3/8BRASS-001	WASHFLAT3-8BRASS-001	2	X	
27	WASHLOCK3/4GV	WASHER LOCK 3/4 ANSI B18.21.1 GV	1		

ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER BESLEY A. LOCKE

3/1/23

REVISIONS

REV.	DESCRIPTION	DATE	DRFT

MATERIAL SPECIFICATIONS

POST: ASTM A572 GR50
BASE PLATE: ASTM A709 GR36
MAST ARM: ASTM A572 GR50
MOUNTING PLATE: ASTM A709 GR36
HARDWARE FINISH: ASTM A153
ANCHOR BOLTS: ASTM F1554 GR 55 SCH-2

DESIGN CRITERIA

2001 AASHTO standard specifications for structural supports for highway signs, luminaires, and traffic signals, 100 MPH wind, APP.C, Fatigue Category II, without galloping w/truck gusts

WELD SPECIFICATION

THE POST AND MAST ARM TO BE FABRICATED FUSE FABRICATION WITH ONE SUBMERGED ARC LONGITUDINAL SEAM WELD WITH 100% PENETRATION 1" FROM BASE PLATE AND 80% FOR REMAINDER. GAS METAL ARC WELDING PROCESS WITH 80% PENETRATION MAY BE USED FOR REMAINDER OF WELDED FABRICATION

WELD TESTING: 100% OF ALL WELDS VISUAL TESTED (VT). 100% OF ALL COMPLETE JOINT PENETRATION (CJP) WELDS ULTRASONIC TESTED (UT) BASED ON THE THINNEST MATING MATERIAL (PER AASHTO 2013 3.13.5 WELD WSP) THICKNESS < 6MM (0.25 IN): MT
≥ 6MM (0.25 IN): UT
A RANDOM 20% OF ALL FILLET WELDS AND PARTIAL JOINT PENETRATION (PJP) LONGITUDINAL SEAM WELDS MAGNETIC PARTICLE TESTED (MT)

FINISH SPECIFICATION

GALV. OR PRIM COAT	HOT DIP GALV PER ASTM A123
FINISH COAT	PAINT
COLOR	VERIFY COLOR
MORRAL OR RAL SPEC.	
WEIGHT W/GALV.	8645.1
WEIGHT W/GALV. & PAINT	8990.9
SURFACE AREA	1690.0
GAL. OF PAINT	5.5000

MILLERBERND
22 4th St. SO.
WINSTED, MN 55395

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SALES ORDER NO.	QTY	STATE	SHEET
205809	1	AL	1 OF 1

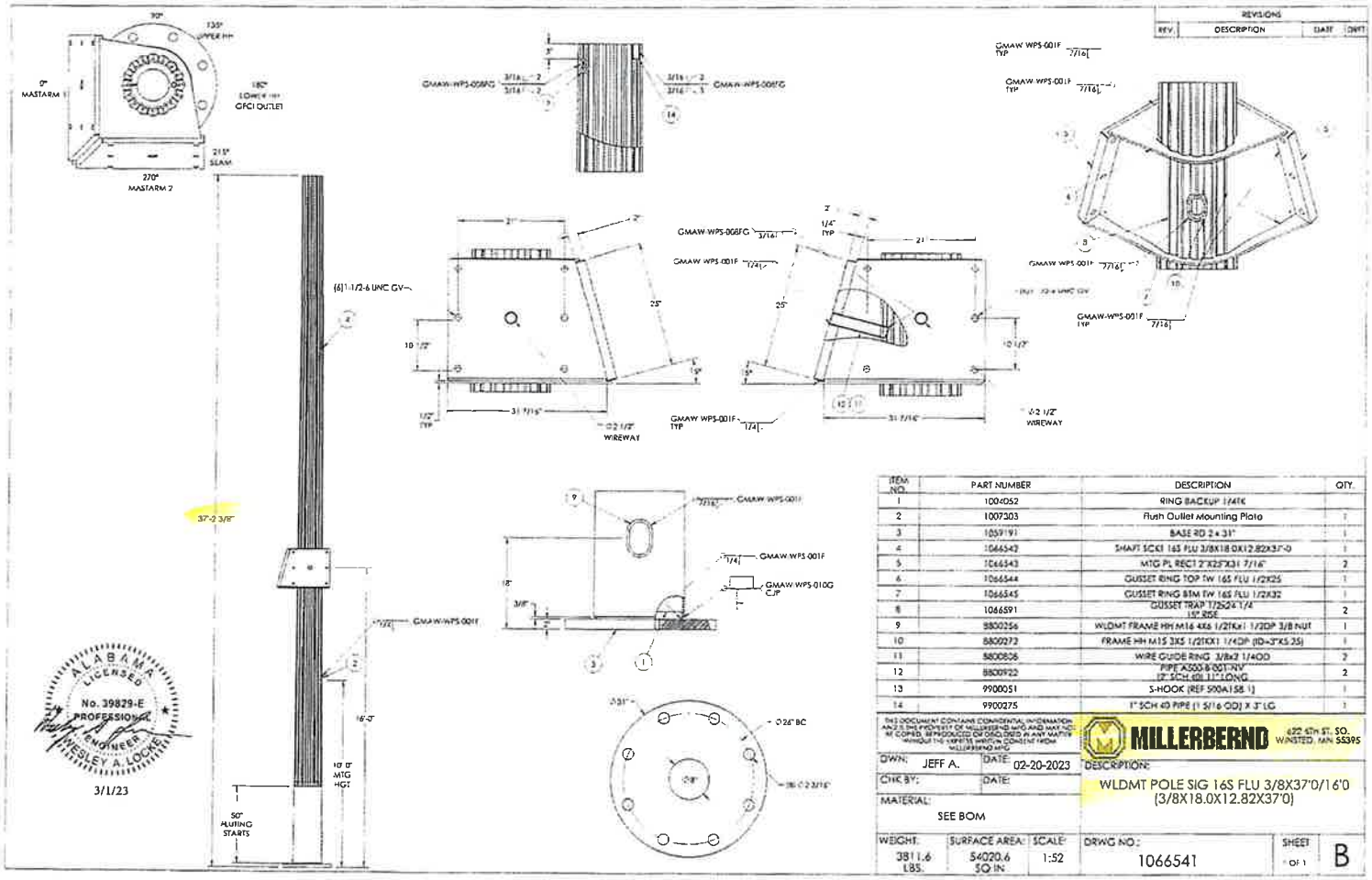
DESCRIPTION:
SUB POLE SIG 16SFLU TW 3/8X37'0/16'0
W/700 & 45'0 CURVED MASTARMS

EST. WEIGHT	DRAWING NO
8645.1	205809-5

PROJECT NAME
PO 23-1558(A)001 Mobile Co. McGregor Rd/Hodson/
SLTS 6-2172

PROJECT LOCATION
AL

DWN BY: JEFF A. DATE: 02-20-2023
CHK BY: DATE:



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1004052	RING BACKUP 1/4FK	
2	1007303	Flush Outlet Mounting Plate	1
3	1059191	BASE RD 2 x 31"	1
4	1066542	SHAFT SCKT 16S FLU 3/8X18.0X12.82X37'-0	1
5	1066543	MTG PL RECT 2"X25"X31 7/16"	2
6	1066544	GUSSET RING TOP TW 16S FLU 1/2X25	1
7	1066545	GUSSET RING BTM TW 16S FLU 1/2X32	1
8	1066591	GUSSET TRAP 1/2X24 1/4 15° RDE	2
9	8800256	WLDMT FRAME HH M16 4X6 1/2TKx1 1/2DP 3/8 NUT	1
10	8800272	FRAME HH M15 3X5 1/2TKX1 1/4DP (ID=3"X5.25)	1
11	8800806	WIRE GUIDE RING 3/8x2 1/4OD	2
12	8800922	PIPE A500 B 001 RW 12" SCH 40 11" LONG	2
13	9900051	S-HOOK (REF 500A158 1)	1
14	9900275	1" SCH 40 PIPE (1 5/16 OD) X 3" LG	1

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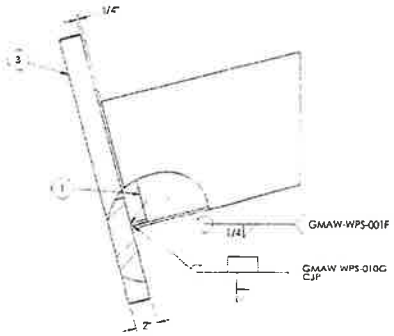
MILLERBERND 622 5TH ST. SO. WINSTED, MN 55395

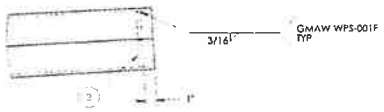
DWN: JEFF A.	DATE: 02-20-2023	DESCRIPTION: WLDMT POLE SIG 16S FLU 3/8X37'0/16'0 (3/8X18.0X12.82X37'0)	
CHK BY:	DATE:		
MATERIAL: SEE BOM			
WEIGHT: 381 1.6 LBS.	SURFACE AREA: 54020.6 SQ IN	SCALE: 1:52	DRWG NO.: 1066541
SHEET 1 OF 1	B		

ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE

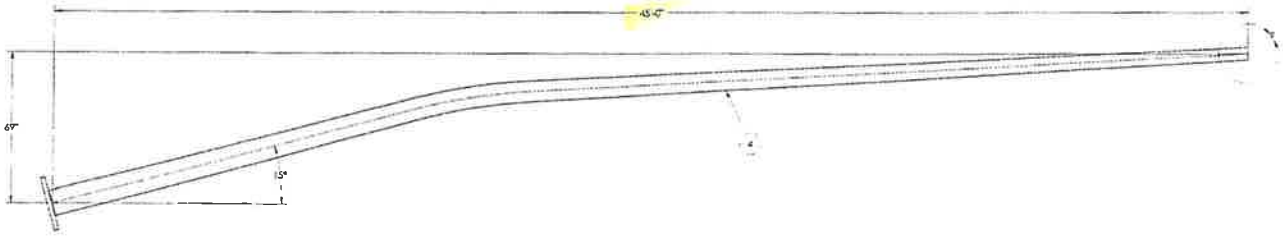
3/1/23

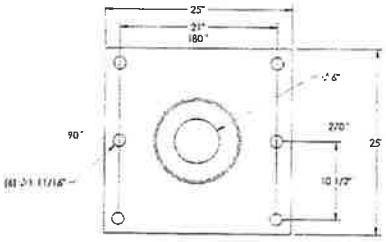
REVISIONS				
REV.	CHNG#	DESCRIPTION	DATE	DRFT





DETAIL F
SCALE 1 : 8





0°
SEAM

3/1/23

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1003436	RING BACKUP RD 1/4"X 11 7/16"	1
2	1045886	BAR CABLE SUPPORT 3/8 X 5	1
3	1058316	MTG PL ARM SQ 2" X 25"	1
4	1066547	SHAFT CHMFR RD CURVED 1/4X12.0X5.62X45'7	1

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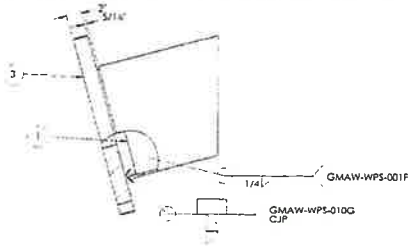
MILLERBERND 520 6TH ST. SO. WINSTED, MN 55395

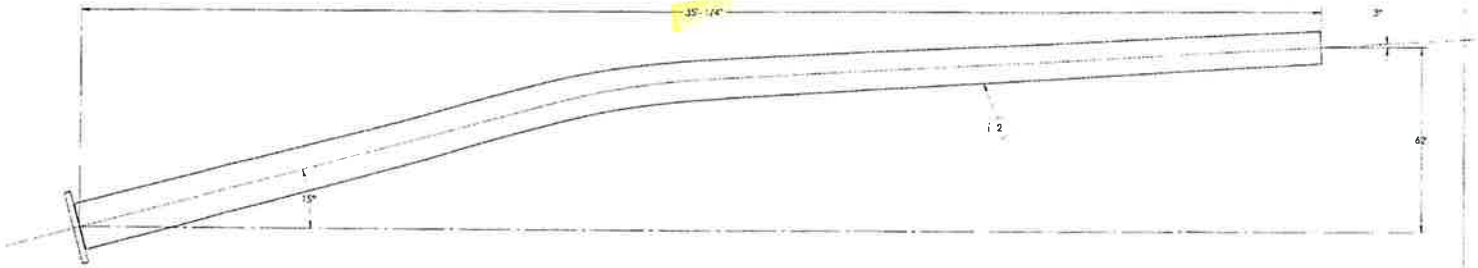
DWN: JEFF A.	DATE: 02-20-2023	DESCRIPTION: WLDMT ARM SIG RD CURVED 1/4X45'0 (1/4X12.0X5.62X45'7)
CHK BY:	DATE:	
MATERIAL: SEE BOM		
WEIGHT: 1376.7 LBS.	SURFACE AREA: 31015.7 SQ IN	SCALE: 1:96
DRWG NO.: 1066546	SHEET 1 OF 1	B

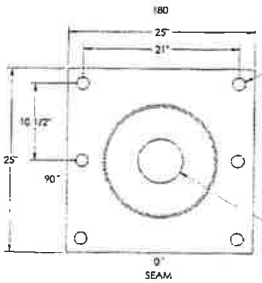
REVISIONS				
REV.	CHNG#	DESCRIPTION	DATE	DRFT

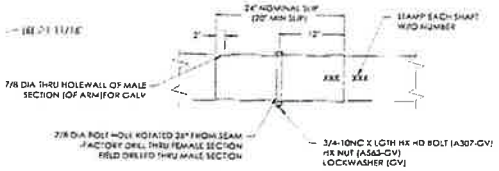


ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE

3/1/23







DETAIL: MASTARM SLIP JOINT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	1002292	RING BACKUP RD 1/4X15 5/16	1
2	1066549	SHAFT RD CHMFR S1 5/16X16.0X11.02X35-7"	1
3	1058316	MTG PL ARM SQ 2" X 25"	1

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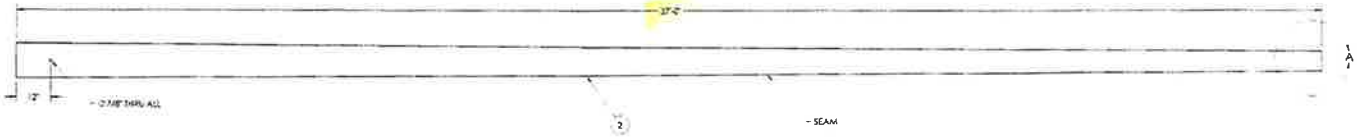
MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395

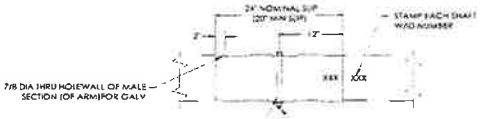
DWN: JEFF A.	DATE: 02-20-2023	DESCRIPTION: WLDMT ARM SIG RD CURVED S1 5/16X35'0 (5/16X16.0X11.02X35'7)
CHK BY:	DATE:	
MATERIAL: SEE BOM		

WEIGHT:	SURFACE AREA:	SCALE:	DRWG NO.:	SHEET	
1907.6 LBS.	37080.0 SQ IN	1:96	1066548	1 OF 1	B

REVISIONS			
REV.	DESCRIPTION	DATE	DWN

APPROVED

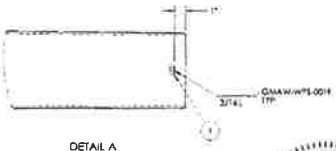




7/8 DIA BOLT HOLE ROTATED 25° FROM SEAM —
-FACTORY DRILL THRU FEMALE SECTION
FIELD DRILLED THRU MALE SECTION

3/4-10NC X LG7in HX HD BOLT (A307-GV)
HX NUT (A563-GV)
LOCKWASHER (GV)

DETAIL - MASTARM SLIP JOINT



DETAIL A
SCALE 1 : 8

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 39829-E WESLEY A. LOCKE

3/1/23

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1047437	BAR CABLE SUPPORT 3/8 X 6.25	1
2	1066592	SHAFT RD S2 3/16X11.93X6.75X37'-0	1

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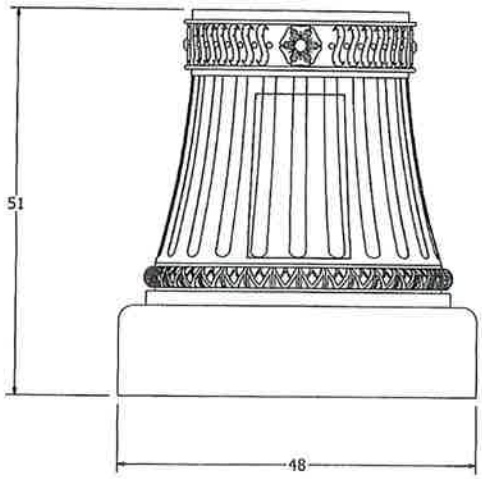
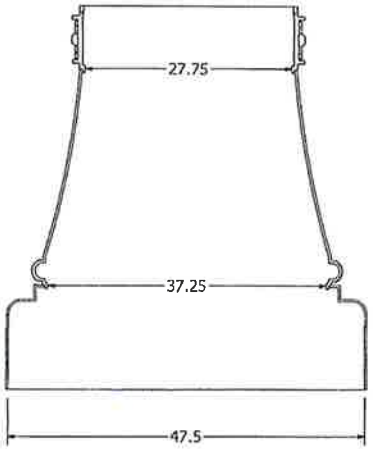
MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395

DWN: JEFF A.	DATE: 02-20-2023	DESCRIPTION: WLDMT ARM SIG RD S2 3/16X37'0 (3/16X11.93X6.75X37'-0)
CHK BY:	DATE:	
MATERIAL: SEE BOM		
WEIGHT: LBS.	SURFACE AREA: 25667.64 SQ IN	SCALE: 1:30
DRWG NO.: 1066550	SHEET OF 1	B





ALABAMA LICENSED
No. 39829-E
PROFESSIONAL ENGINEER
WESLEY A. LOCKE

3/1/23

QTY:2

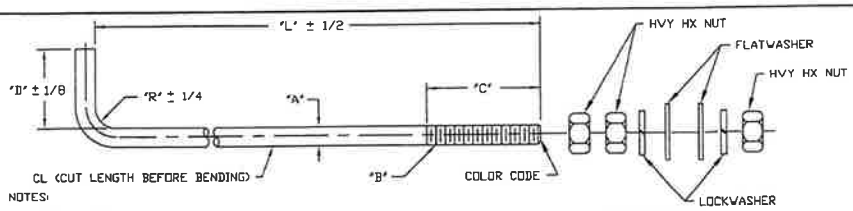
RR	6/27/2018	
MK		
JS		
MK		
ALUMINUM		
N/A		

SOUTH COAST LIGHTING & DESIGN
232 AVENIDA FABRICANTE, STE. 109
SAN CLEMENTE, CA 92672
PH 949 276 8850 FX 949 276 8855
SALES@SOUTHCOASTLIGHTING.COM

BCHUN4851

A | R-062718-2P

BASES



ALABAMA LICENSED No. 39829-E PROFESSIONAL ENGINEER WESLEY A. LOCKE

3/1/23

NOTES:

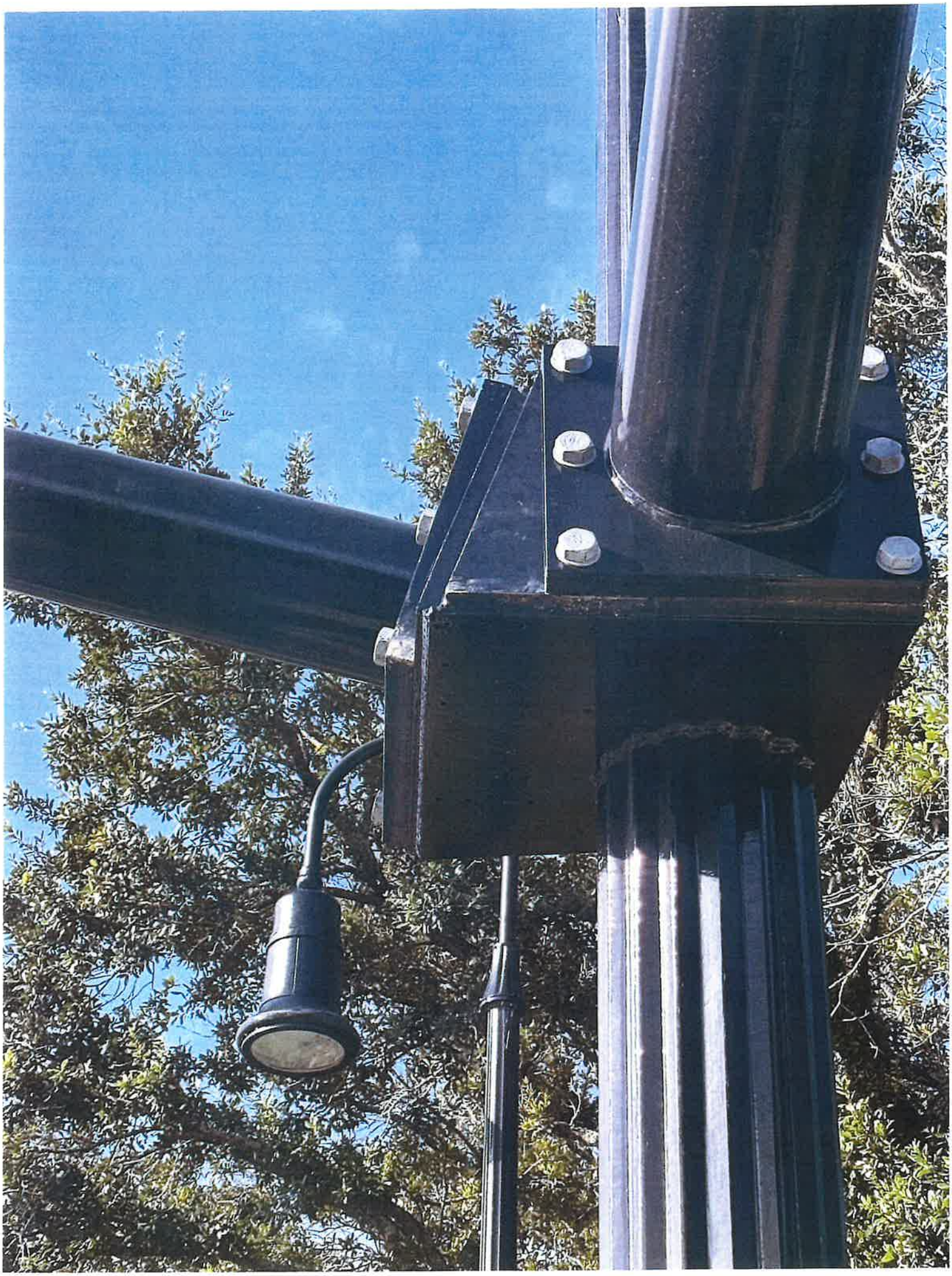
1. ANCHOR BOLT PER ASTM F1554 GRADE 55 S1 &/OR AASHTO M314-90 GRADE 55.
   YIELD STRENGTH = 55,000 PSI MIN YIELD
   TENSILE STRENGTH = 75,000-95,000 PSI
2. FULLY HOT DIP GALVANIZE PER ASTM A153.
3. THREAD TO BE CLASS 2A PER AMERICAN STD. B 1.1 .030 OVER SIZE AFTER GALVANIZING
4. ALL BOLTS ROLLED THREAD
5. GALVANIZED HEAVY HEX NUTS (A563GV) PER ASTM A563 GR DH (.030 OVER SIZE) OR (A194 2H EQUIVALENT)
6. NO WELDING IS ALLOWED ON ANCHOR BOLTS
7. GALVANIZED FLAT WASHERS PER ASTM F436
8. GALVANIZED LOCKWASHERS
9. THE END OF ANCHOR BOLT TO PROJECT FROM THE CONCRETE PAINTED PER COLOR CODE

PART NO BOLT (ONLY)	PART NO BOLT W/3 NUTS, 2 LOCK & 2 FLAT WASHERS	PART NO BOLT W/3 NUTS & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS, 1 LOCK & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS, 2 LOCK & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS & 2 FLAT WASHERS	PART NO BOLT W/2 NUTS	PART NO BOLT W/1 NUT	"A"	CL	"B" THD SIZE	"C" OFF MIN THD LG	"L"	"D"	"R"	COLOR CODE	QTY BOLTS	QTY NUTS	QTY LOCK WASHERS	QTY FLAT WASHERS
460A579-1	460A579-1TNV	460A579-1TNFV	460A579-1DNV	460A579-1DNLV	460A579-1DNFV	460A579-1DN	460A579-1N	.91	48"	1-8	6"	36"	4"	2 1/2	YELLOW				
460A579-2	460A579-2TNV	460A579-2TNFV	460A579-2DNV	460A579-2DNLV	460A579-2DNFV	460A579-2DN	460A579-2N	1.148	48"	1 1/4-7	8"	42"	6"	2 1/2	YELLOW				
460A579-3	460A579-3TNV	460A579-3TNFV	460A579-3DNV	460A579-3DNLV	460A579-3DNFV	460A579-3DN	460A579-3N	1.381	60"	1 1/2-6	10"	54"	6"	3 3/8	YELLOW				
460A579-4	460A579-4TNV	460A579-4TNFV	460A579-4DNV	460A579-4DNLV	460A579-4DNFV	460A579-4DN	460A579-4N	1.613	90"	1 3/4-5	10"	84"	6"	3 1/2	YELLOW				
460A579-5	460A579-5TNV	460A579-5TNFV	460A579-5DNV	460A579-5DNLV	460A579-5DNFV	460A579-5DN	460A579-5N	1.845	90"	2-4 1/2	10"	84"	6"	4"	YELLOW	41	82	41	82
460A579-6	460A579-6TNV	460A579-6TNFV	[illegible]	460A579-6DNLV	460A579-6DNFV	460A579-6DN	460A579-6N	2.148	96"	2 1/4-4 1/2	12"	89"	7"	4 1/2	YELLOW				
460A579-7	460A579-7TNV	460A579-7TNFV	460A579-7DNV	460A579-7DNLV	460A579-7DNFV	460A579-7DN	460A579-7N	1.845	96"	2-4 1/2	10"	90"	6"	4"	YELLOW				
460A579-8	460A579-8TNV	460A579-8TNFV	460A579-8DNV	460A579-8DNLV	460A579-8DNFV	460A579-8DN	460A579-8N	1.148	49"	1 1/4-7	6"	36"	4"	2 1/2	YELLOW				
460A579-9	460A579-9TNV	460A579-9TNFV	460A579-9DNV	460A579-9DNLV	460A579-9DNFV	460A579-9DN	460A579-9N	1.148	51"	1 1/4-7	6"	43"	6"	2 1/2	YELLOW				
460A579-10	460A579-10TNV	460A579-10TNFV	460A579-10DNV	460A579-10DNLV	460A579-10DNFV	460A579-10DN	460A579-10N	1.381	66"	1 1/2-6	10"	60"	6"	3 3/8	YELLOW				
460A579-11	460A579-11TNV	460A579-11TNFV	460A579-11DNV	460A579-11DNLV	460A579-11DNFV	460A579-11DN	460A579-11N	1.148	48"	1 1/4-7	10"	42"	6"	2 1/2	YELLOW				
460A579-12	460A579-12TNV	460A579-12TNFV	460A579-12DNV	460A579-12DNLV	460A579-12DNFV	460A579-12DN	460A579-12N	1.381	60"	1 1/2-6	10"	54"	6"	3 3/8	YELLOW				
460A579-13	460A579-13TNV	460A579-13TNFV	460A579-13DNV	460A579-13DNLV	460A579-13DNFV	460A579-13DN	460A579-13N	.91	42"	1-8	6"	38"	4"	2 1/2	YELLOW				
460A579-14	460A579-14TNV	460A579-14TNFV	460A579-14DNV	460A579-14DNLV	460A579-14DNFV	460A579-14DN	460A579-14N	1.845	66"	2-4 1/2	10"	60"	6"	4"	YELLOW				
460A579-15	460A579-15TNV	460A579-15TNFV	460A579-15DNV	460A579-15DNLV	460A579-15DNFV	460A579-15DN	460A579-15N	1.148	54"	1 1/4-7	9"	48"	6"	2 1/2	YELLOW				
460A579-16	460A579-16TNV	460A579-16TNFV	460A579-16DNV	460A579-16DNLV	460A579-16DNFV	460A579-16DN	460A579-16N	.91	96"	1-8	6"	90"	4"	2 1/2	YELLOW				
460A579-17	460A579-17TNV	460A579-17TNFV	460A579-17DNV	460A579-17DNLV	460A579-17DNFV	460A579-17DN	460A579-17N	1.381	90"	1 1/2-6	10"	84"	6"	3 3/8	YELLOW				
460A579-18	460A579-18TNV	460A579-18TNFV	460A579-18DNV	460A579-18DNLV	460A579-18DNFV	460A579-18DN	460A579-18N	.91	46"	1-8	6"	42"	4"	2 1/2	YELLOW				
460A579-19	460A579-19TNV	460A579-19TNFV	460A579-19DNV	460A579-19DNLV	460A579-19DNFV	460A579-19DN	460A579-19N	1.381	80"	1 1/2-6	10"	72"	6"	3 3/8	YELLOW				
460A579-20	460A579-20TNV	460A579-20TNFV	460A579-20DNV	460A579-20DNLV	460A579-20DNFV	460A579-20DN	460A579-20N	1.148	90"	1 1/4-7	10"	84"	6"	2 1/2	YELLOW				
460A579-21	460A579-21TNV	460A579-21TNFV	460A579-21DNV	460A579-21DNLV	460A579-21DNFV	460A579-21DN	460A579-21N	1.613	80"	1 3/4-5	10"	72"	6"	3 1/2	YELLOW				
460A579-22	460A579-22TNV	460A579-22TNFV	460A579-22DNV	460A579-22DNLV	460A579-22DNFV	460A579-22DN	460A579-22N	1.148	96"	1 1/4-7	12"	90"	6"	2 1/2	YELLOW				
460A579-23	460A579-23TNV	460A579-23TNFV	460A579-23DNV	460A579-23DNLV	460A579-23DNFV	460A579-23DN	460A579-23N	1.381	96"	1 1/2-6	12"	90"	6"	3 3/8	YELLOW				
460A579-24	460A579-24TNV	460A579-24TNFV	460A579-24DNV	460A579-24DNLV	460A579-24DNFV	460A579-24DN	460A579-24N	1.613	96"	1 3/4-5	12"	90"	6"	3 1/2	YELLOW				

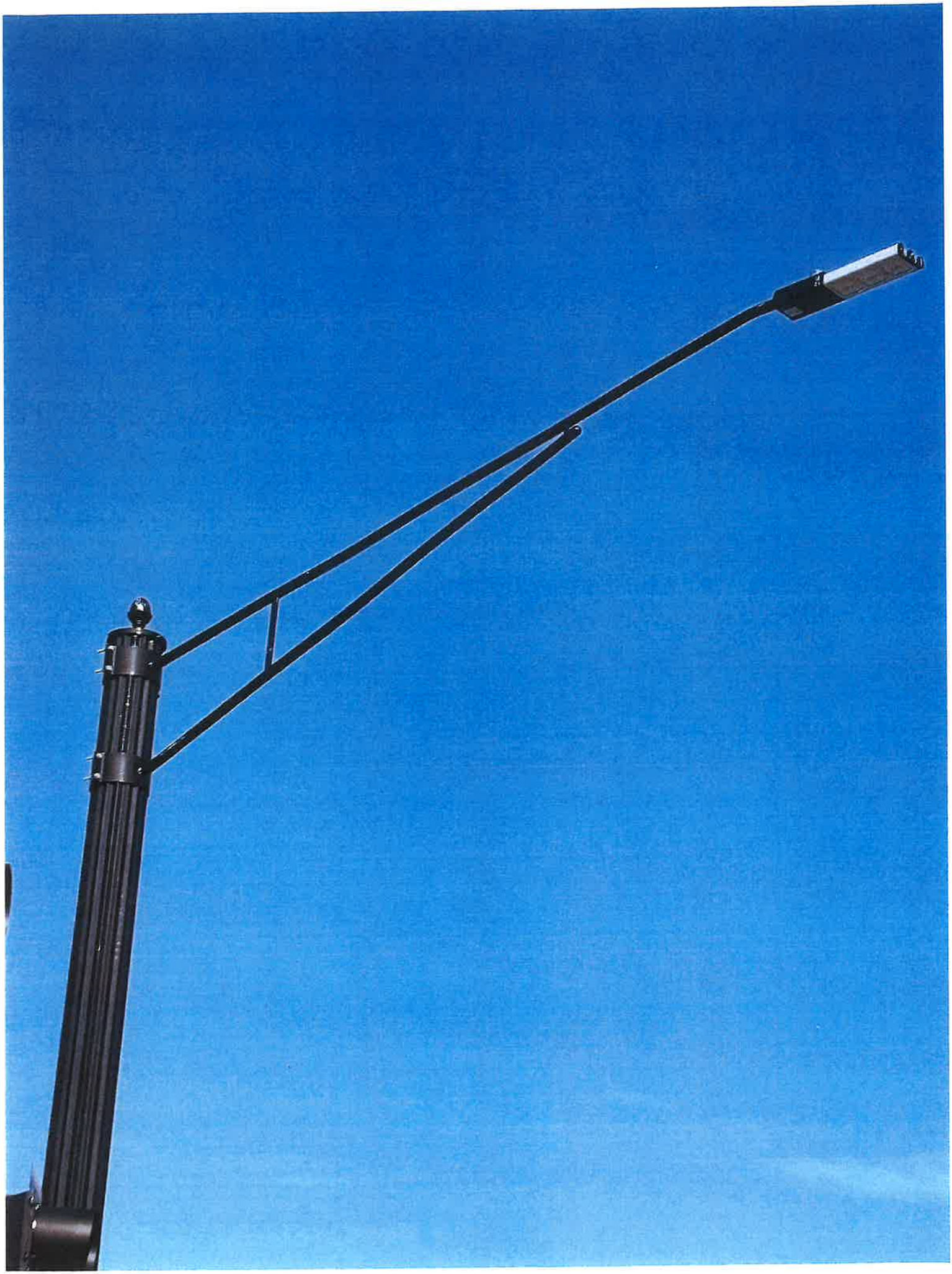
REV 12/12/22 ADDED -24 & -25 TO CHART CKD
REV 01/31/19 CHANGED ALL AB. TO FULLY GALVANIZED TK
REV 2-16-18 ADDED SHEET -29 TO CHART - JD
REV 1-9-17 ADDED SHEET 2 AND -25 AND -26 TO CHART
REV 12-16-16 ADDED -22,-23 AND -24 TO CHART
REV 12-8-16 ADDED 460A579-21
REV 9-29-15 -18 "L" WAS 54"
REV 6-30-15 ADDED 460A579-13
REV 9-6-13 -9 CL WAS 40"
REV 11-28-11 CHANGE "C" ON -1 FROM 8" TO 6", "C" ON -3,-4 & -5 FROM 12" TO 10" AND "L" ON -6 FROM 90" TO 89" AND "D" FROM 6" TO 7"

DWN: JAMIE D.	ANCHOR BOLTS
DATE: 08-16-11	F1554 GRADE 55 FULLY GALV
CHK: FLOYD F.	Millerbernd MANUFACTURING CO. WINSTED, MN
SCALE: NTS	SHEET 1 OF 2 460A579

YIELD
25



YIELD
McGregor AVE
25



MOBILE
ALABAMA

PROCUREMENT DEPARTMENT

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This is a sealed bid. Any responses faxed or emailed will be rejected.

This is a sealed bid. Any response must be submitted in a sealed envelope with the bid number and bid opening date on the outside of the envelope.

Any response that arrives improperly marked or with no bid number and opening date on the outside of the delivery or express package and opened in error will be rejected and not considered.

It is the responsibility of the bidder to ensure that their bid response is delivered to and received in the Purchasing Department before the date and time of the bid opening.

Please read the Terms and Conditions.

All bids are F.O.B. destination unless otherwise stated.

Please sign your bid.

Package/Bid Delivery Address (Request First Delivery):
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205 Government St., RM S408
Mobile, AL 36644