

DIVISION 26 - ELECTRICAL

1. GENERAL

- A. Furnish all labor, supervision, materials, equipment, apparatus and appurtenances required for a complete working and coordinated electrical system as shown on the drawings and specified herein.
- B. Wherever applicable or not otherwise specified, all electrical work including equipment, material and installation shall be in accordance with base building specifications and practices.
- C. All electrical work shall be constructed and finished in every respect in a workmanlike and substantial manner. Furnish and install all work necessary to complete the system in accordance with the best trade practice and to the satisfaction of the engineer. The entire installation shall be ready in every respect for satisfactory and efficient operation when completed. The engineer will interpret the meaning of the drawings and specifications and may reject any work and materials which, in their judgment, is not in full accordance therewith.
- D. Submit a single certification stating that all portions of the work are in accordance with contract requirements. Warranty all work against faulty and improper material and workmanship for a period of one year from date of final acceptance by the tenant, except that where guarantees or warranties for longer terms are specified, such longer term shall apply. At no additional cost to tenant or engineer, within 24 hours after notification, correct any deficiencies which occur during the warranty period, to the satisfaction of the tenant.
- E. The contractor covenants and agrees that he and his subcontractors and his and their agents and employees will provide and maintain a safe place to work and will comply with all laws and regulations of all governmental authorities having jurisdiction thereof, and the contractor agrees to indemnify, defend and hold harmless, the engineer and tenant from and against any liability, loss, damage or expense, including attorneys' fees, arising from a failure or alleged failure on the part of the contractor, his subcontractors and his and their agents and employees to provide and maintain a safe place to work or to comply with laws and regulations of governmental authorities having jurisdiction thereof.
- F. The contractor and each subcontractor covenants and agrees to indemnify, defend and hold harmless the Engineer and tenant against any liability, loss, damage or expenses, including attorneys' fees, arising from a failure or alleged failure on the part of the contractor, his subcontractor or his or their agents and employees to properly discharge the obligations assumed by him or them in the performance of the work, including any act or omission allegedly resulting in death or personal injury or property damage on improper construction, construction techniques, or the use of improper or inappropriate material or tools.
- G. The drawings show various conduit and wiring systems schematically and provide circuit numbers for reference only. Provide additional neutral wire where it is necessary to run circuits of the same phase in common conduit (maximum of three phase conductors in a single conduit). Balance all panelboards and record all circuit numbers on as_built drawings.
- H. Comply with all applicable requirements of the building owner, the tenant lease and building design criteria for tenant improvements.
- I. Architectural specifications and general, special and supplementary conditions, where provided, shall form a part of these specifications.

2. CODES AND PERMITS

- A. All work shall be done in full compliance with the National Electrical Code, all applicable state and local codes, requirements and ordinances and applicable requirements of NFPA, UL and other applicable standards.
- B. All equipment and materials shall be new and listed by the Underwriters' Laboratories, Inc., Manufactured in full accordance with applicable ASME, NFPA, NEMA, ANSI, EIA/TIA or IEEE standards.
- C. Secure and pay for all necessary approvals, permits, inspections, etc., and deliver the official records of the granting of such to the tenant without additional cost to the tenant.

3. COORDINATION

- A. Coordinate the work of this section with the work of other sections in ample time for the proper installation and connection. Carefully check space requirements with other trades to ensure that all equipment and materials can be installed in the spaces allotted thereto.
- B. Carefully check the documents of other Divisions to ascertain the requirements of any materials or equipment being furnished or furnished and installed by that Division and provide the proper installation and connections including any control wiring required.
- C. Transmit all information required for work being performed by other trades in ample time for the proper installation and connection and for the provision of all openings required in floors and walls.
- D. Refer to architectural drawings for exact locations of all lighting fixtures, outlets and switches, including mounting heights. Refer to the architectural drawings for finishes of equipment and materials not specified herein.
- E. All interruptions of services (power, fire alarm, water, HVAC, etc.) and all work in occupied tenant spaces (e.g. plumbing or electrical work in an occupied tenant's space below a space under construction) must be scheduled through the building manager a minimum of 2 business days in advance. Any interruptions or construction which will affect normal operation of the building or it's tenants shall be scheduled, with the building manager's approval, on an after-hours basis.
- F. Field core drilling and cutting of holes in the existing structure for the work under this section shall be the responsibility of this contractor. Drilling and cutting shall be coordinated through the general contractor and approved by the building manager. Where the services of a structural engineer are necessary to approve such drilling and cutting, this contractor shall bear the cost of such services. All costs for drilling, cutting, and associated structural reinforcing shall be borne by this contractor.
- G. Cutting and patching of new and existing building finishes for installation of work of this section shall be coordinated through the general contractor and approved by the building manager. Where cutting and patching is approved, it shall be performed by the trades who normally install the work which is being removed and the cost of cutting and patching shall be borne by this contractor.

4. EXISTING CONDITIONS

- A. Before submitting a bid, the contractor shall become thoroughly familiar with actual existing conditions at the building and the present installations to which connections must be made or which must be changed or altered. The intent of the work is shown on the drawings and described herein, and no consideration will be granted by reason of lack of familiarity on the part of the contractor with actual physical conditions at the site.
- B. Schedule all work connecting with existing systems to ensure a minimum of service interruption. Notify the building manager in writing of any planned interruption in service in ample time for the building manager's convenience and proceed with plan only after the building owner's written approval is obtained.
- C. Where specifically called for on the drawings or when permission is specifically given by the tenant or building manager, existing equipment and material may be reused.
- D. Verify and become thoroughly familiar with building systems, such as life safety and emergency lighting and provide for the proper wiring and interconnects where applicable.
- E. This contractor shall repair any fireproofing damaged by this contractor, to the integrity of the original construction.

5. DEMOLITION

- A. Refer to Architectural Demolition and Renovation Plans for scope of area being renovated and walls to be removed.
- B. Where electrical devices occur in walls being removed, the electrical contractor is responsible for removing all wire and conduit back to a junction to remain, to the homerun junction box or flush with chase walls, floor penetrations or areas where access to the conduit is restricted. Where the circuit it released the electrical contractor shall remove the wire from the breaker and turn the breaker to the off position.
- C. Where electrical devices are removed, it is the responsibility of the electrical contractor to ensure circuit continuity to remaining electrical devices, that are not in areas where the demolition is occurring.
- D. When removing fluorescent lamps, lamps with green end caps may contain mercury. These lamps must be handled carefully so that they don't break, package in an approved box furnished by EH&S and give to EH&S for proper disposal.
- E. For a fluorescent ballasts being removed, treat as PCB waste unless the ballast is labeled "no PCB's". PCB waste is regulated and must be packaged in drums furnished by EH&S and given to EH&S for proper disposal.
- F. Dispose of light fixtures not shown to be reused in accordance with any / all applicable regulation.

6. SUBMITTALS

- A. Prepare and submit detailed shop drawings for electrical equipment as requested herein. Equipment installed without approval thereof shall be done at the risk of this contractor and the cost of removal of such equipment or related work which is judged unsatisfactory for any reason shall be at the expense of this contractor.
- B. During the progress of the work, make a careful record of all instances where the actual installation differs from that indicated on the contract drawings. Where branch circuit conduit connections between individual devices are not shown on the contract documents, as_built drawings shall show the branch circuit connections between devices as actually installed. Upon completion of the installation, furnish two complete sets of reproducible as_built drawings. These drawings shall be submitted to the engineer for approval. After approval they shall become the property of the tenant and building owner. Final payment will be withheld until receipt of the approved as_built drawings.
- C. Submittal reviews for equipment will not be made upon submission of manufacturers' names. Submittal reviews for equipment will be made only after receipt of complete and satisfactory submittals. Equipment will be reviewed for general compliance with the design concepts shown on the Construction Documents. The opinion and judgment of the Engineer shall be final.

- D. Notify the engineer, in writing, within 5 days of award of contract, of the proposed delivery schedule for any equipment or material which will prevent the installation from being completed at the time of the scheduled project completion.
- E. Submit manufacturer's data or shop drawings of the following apparatus, as applicable, giving full information as to dimensions, materials, features, performance data and other information pertinent to the submitted equipment.
 - Light fixtures and lamps
 - Wiring devices
 - Electrical equipment

7. TESTING

- A. The contractor shall fully test all systems, which the contractor has installed, for proper operation and shall demonstrate such proper operation to the tenant and engineer's representative.
- B. Prior to energization, all new feeder and branch circuit conductors shall be checked for continuity and short circuits.
- C. All new feeder conductors shall have their insulation resistance tested after its installation is complete except for connection at the source and point of termination. Tests shall be made using a Biddler Megger or equivalent test instrument at a voltage of not less than 1,000 volts dc, and after one minute of operation at slip speed. Resistance shall be measured from conductor to conductor and conductor to ground for all installed conductors. Conductors which do not meet or exceed the following insulation resistance values shall be removed, replaced and retested:

WIRE SIZE (AWG)	INSULATION RESISTANCE (OHMS)
No. 12	1,000 K
No. 10 and No. 8	250 K
No. 6 through No. 2	100 K
No. 1 through No. 4/0	50 K
250 MCM and larger	25 K

8. LIGHTING FIXTURES AND LAMPS

- A. Furnish and install light fixtures and lamps as specified on the drawings. Light fixtures shall be complete with all required accessories for proper installation in the ceiling types in which they are installed.
- B. All lighting fixtures and lamps shall be furnished by the electrical contractor, unless noted otherwise on the drawings as reused or relocated existing building standard fixtures furnished by the building owner, or fixtures furnished by the tenant.
- C. Lighting fixtures which are noted to be relocated or reused shall be cleaned and relamped prior to reuse. Damaged or defective lighting fixtures shall not be reused and shall be repaired to like-new condition or replaced with a complete new light fixture. Existing light fixtures which are removed and not reused shall be stored as directed by the building manager.

9. WIRE AND CABLE

- A. Insulation for conductors sized No. 10 AWG and smaller shall be UL Type "THHN/THWN" (rated at 90°C in dry locations and 75°C in wet locations). Insulation for conductors sized No. 8 AWG and larger shall be UL Type "THHN/THWN" (rated at 90°C in dry locations and 75°C in wet locations).
- B. Conductor splices, taps, and terminations shall be made using connectors or lugs approved for the intended use. Preinsulated spring connectors may be used for connections and splices of wire sizes up to No. 8 AWG.
- C. All power wiring shall be color coded to match the existing building color coding schedule. Color coding shall be via color coded insulation or color coded tape at every conductor splice, termination or tap.
- D. Type MC cable shall not be used.
- E. For 120 volt, 20 amp branch circuits with a length of 75' or more to the homerun junction box or first outlet, provide minimum No. 10 AWG conductors to the homerun junction box or first outlet. Where the additional circuit length from the homerun junction box or first outlet to the last outlet exceeds 75', provide minimum No. 10 AWG conductors to the last outlet. For 208 volt, 20 amp branch circuits with a length of 100' or more, provide No. 10 AWG conductors for the entire branch circuit. For 208 volt, 30 amp branch circuits with a length of 100' or more, provide No. 8 AWG conductors for the entire branch circuit. For 277 volt, 20 amp branch circuits with a length of 150' or more, to the first outlet provide No. 10 AWG conductors to the center of the load (minimum first outlet, where there is only one outlet).
- F. Conductors for lighting and power branch circuits shall be of such a size that the drop in potential from the panelboards to the farthest point on the circuits shall not exceed 2% at maximum load and 70% power factor, at 120/208 volts and 1% at maximum load at 277/480 volts.

10. CONDUIT AND BOXES

- A. All power wiring shall be installed in an approved raceway. All control wiring shall be installed in an approved raceway, except that low voltage control wiring may be installed without a raceway, in concealed accessible locations, when a UL listed plenum rated cable is used. Conduit shall be concealed to the maximum extent possible and when exposed, shall be run parallel and perpendicular to building lines. All conduit shall be independently supported from the building structure. Supports shall be independent from the ceiling system supports.
- B. Schedule 40 rigid PVC conduit shall be used for direct burial.
- C. Rigid galvanized steel (RGS) conduit shall be used for raceways exposed to weather unless noted otherwise.

END OF SPECIFICATIONS



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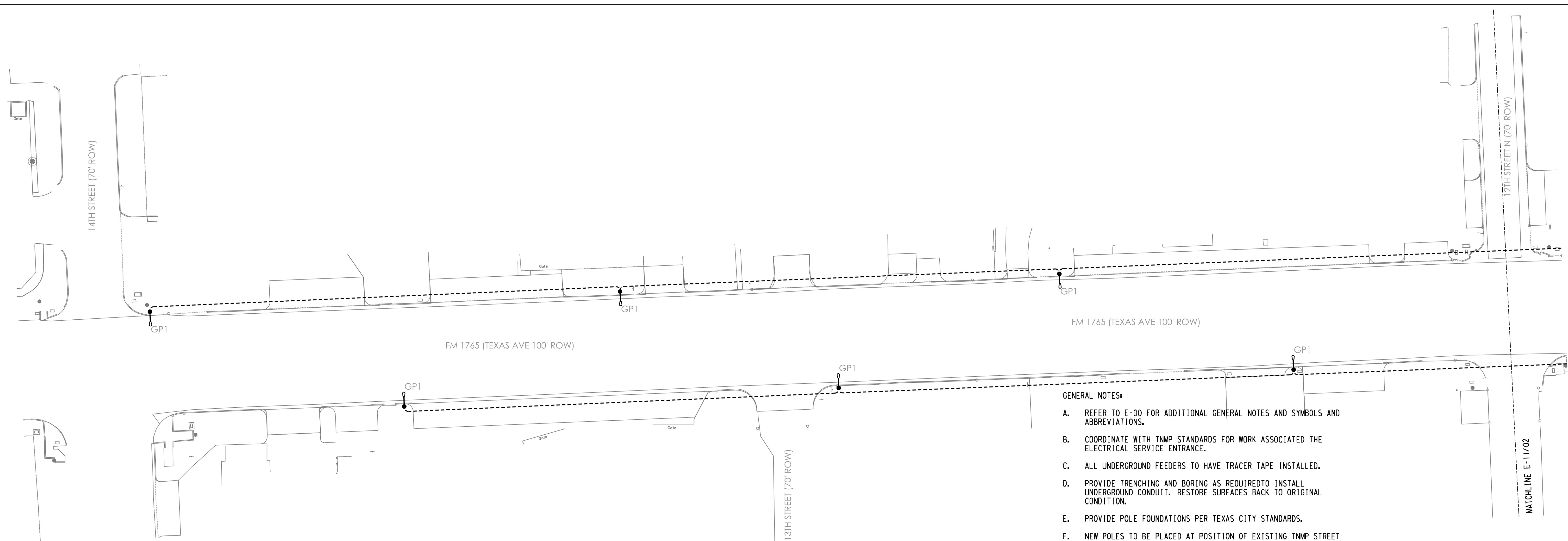
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	Engineers E & C Consultants	E&C Engineers & Consultants Inc. 1010 Lamar, Suite 650 Houston, TX 77002 Tel (713) 580-8800 Fax (713) 580-8888 www.eceng.com TX Firm Registration No: F-003068
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Texas Avenue Street Lighting
Texas City

Revisions

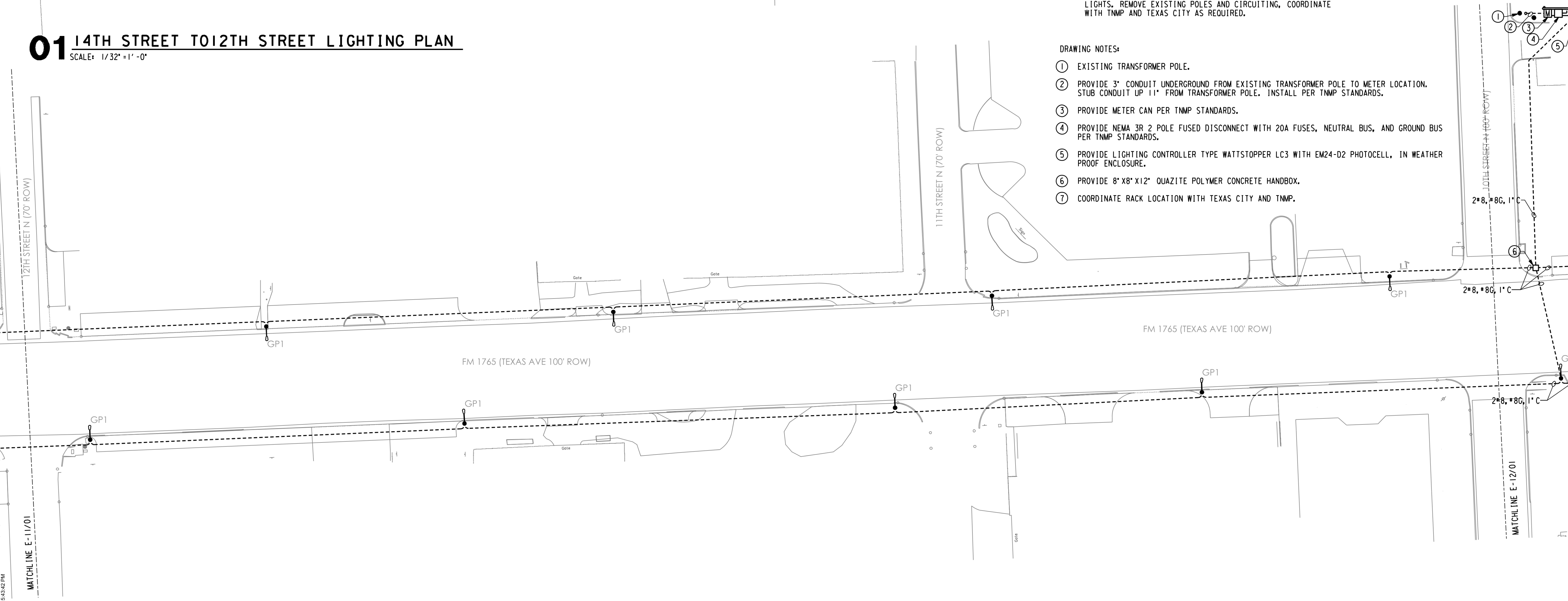
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01 14TH STREET TO 12TH STREET LIGHTING PLAN
 SCALE: 1/32" = 1' - 0"

- GENERAL NOTES:**
- A. REFER TO E-00 FOR ADDITIONAL GENERAL NOTES AND SYMBOLS AND ABBREVIATIONS.
 - B. COORDINATE WITH TNMP STANDARDS FOR WORK ASSOCIATED THE ELECTRICAL SERVICE ENTRANCE.
 - C. ALL UNDERGROUND FEEDERS TO HAVE TRACER TAPE INSTALLED.
 - D. PROVIDE TRENCHING AND BORING AS REQUIRED TO INSTALL UNDERGROUND CONDUIT. RESTORE SURFACES BACK TO ORIGINAL CONDITION.
 - E. PROVIDE POLE FOUNDATIONS PER TEXAS CITY STANDARDS.
 - F. NEW POLES TO BE PLACED AT POSITION OF EXISTING TNMP STREET LIGHTS. REMOVE EXISTING POLES AND CIRCUITING, COORDINATE WITH TNMP AND TEXAS CITY AS REQUIRED.

- DRAWING NOTES:**
- ① EXISTING TRANSFORMER POLE.
 - ② PROVIDE 3" CONDUIT UNDERGROUND FROM EXISTING TRANSFORMER POLE TO METER LOCATION. STUB CONDUIT UP 11" FROM TRANSFORMER POLE. INSTALL PER TNMP STANDARDS.
 - ③ PROVIDE METER CAN PER TNMP STANDARDS.
 - ④ PROVIDE NEMA 3R 2 POLE FUSED DISCONNECT WITH 20A FUSES, NEUTRAL BUS, AND GROUND BUS PER TNMP STANDARDS.
 - ⑤ PROVIDE LIGHTING CONTROLLER TYPE WATTSTOPPER LC3 WITH EM24-D2 PHOTOCCELL, IN WEATHER PROOF ENCLOSURE.
 - ⑥ PROVIDE 8" X 8" X 12" QUAZITE POLYMER CONCRETE HANDBOX.
 - ⑦ COORDINATE RACK LOCATION WITH TEXAS CITY AND TNMP.

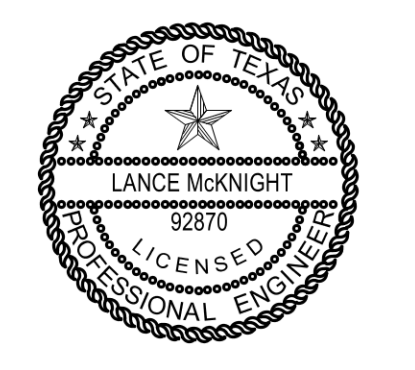


02 12TH STREET TO 10TH STREET LIGHTING PLAN
 SCALE: 1/32" = 1' - 0"



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 Texas City

Revisions

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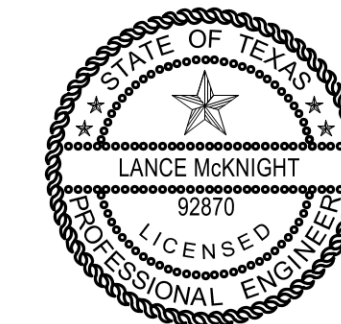
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Texas Avenue Street Lighting
Texas City

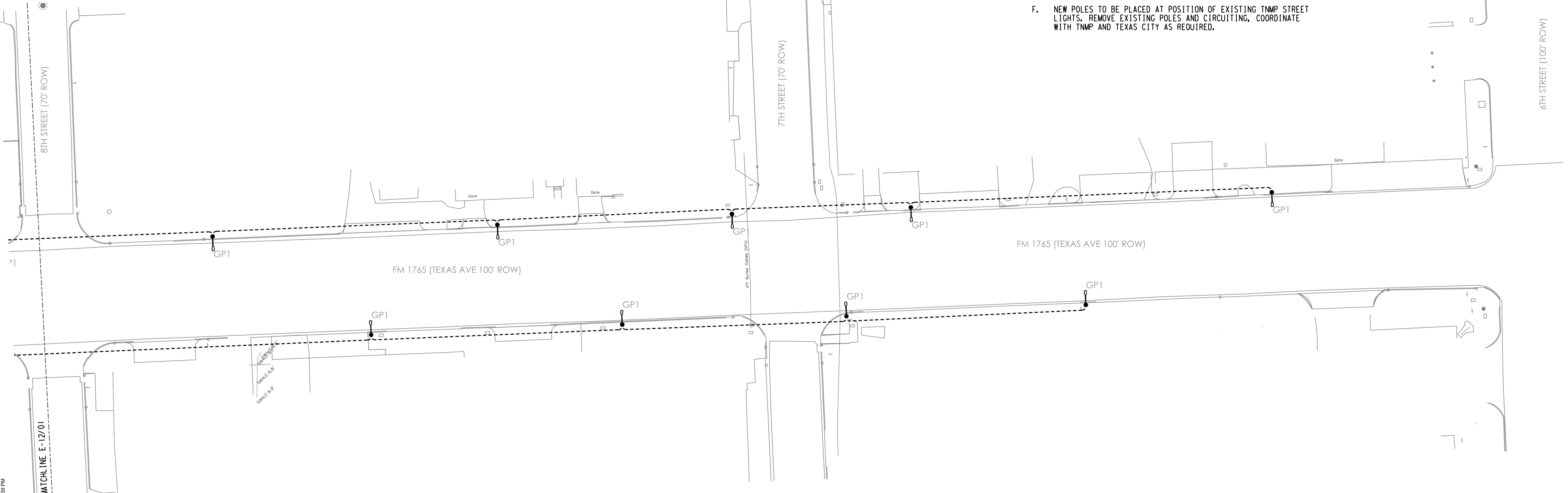
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01 10TH STREET TO 8TH STREET LIGHTING PLAN
SCALE: 1/32"=1'-0"

- GENERAL NOTES:**
- REFER TO E-00 FOR ADDITIONAL GENERAL NOTES AND SYMBOLS AND ABBREVIATIONS.
 - COORDINATE WITH TMAP STANDARDS FOR WORK ASSOCIATED THE ELECTRICAL SERVICE ENTRANCE.
 - ALL UNDERGROUND FEEDERS TO HAVE TRACER TAPE INSTALLED.
 - PROVIDE TRENCHING AND BORING AS REQUIRED TO INSTALL UNDERGROUND CONDUIT. RESTORE SURFACES BACK TO ORIGINAL CONDITION.
 - PROVIDE POLE FOUNDATIONS PER TEXAS CITY STANDARDS.
 - NEW POLES TO BE PLACED AT POSITION OF EXISTING TMAP STREET LIGHTS. REMOVE EXISTING POLES AND CIRCUITING, COORDINATE WITH TMAP AND TEXAS CITY AS REQUIRED.



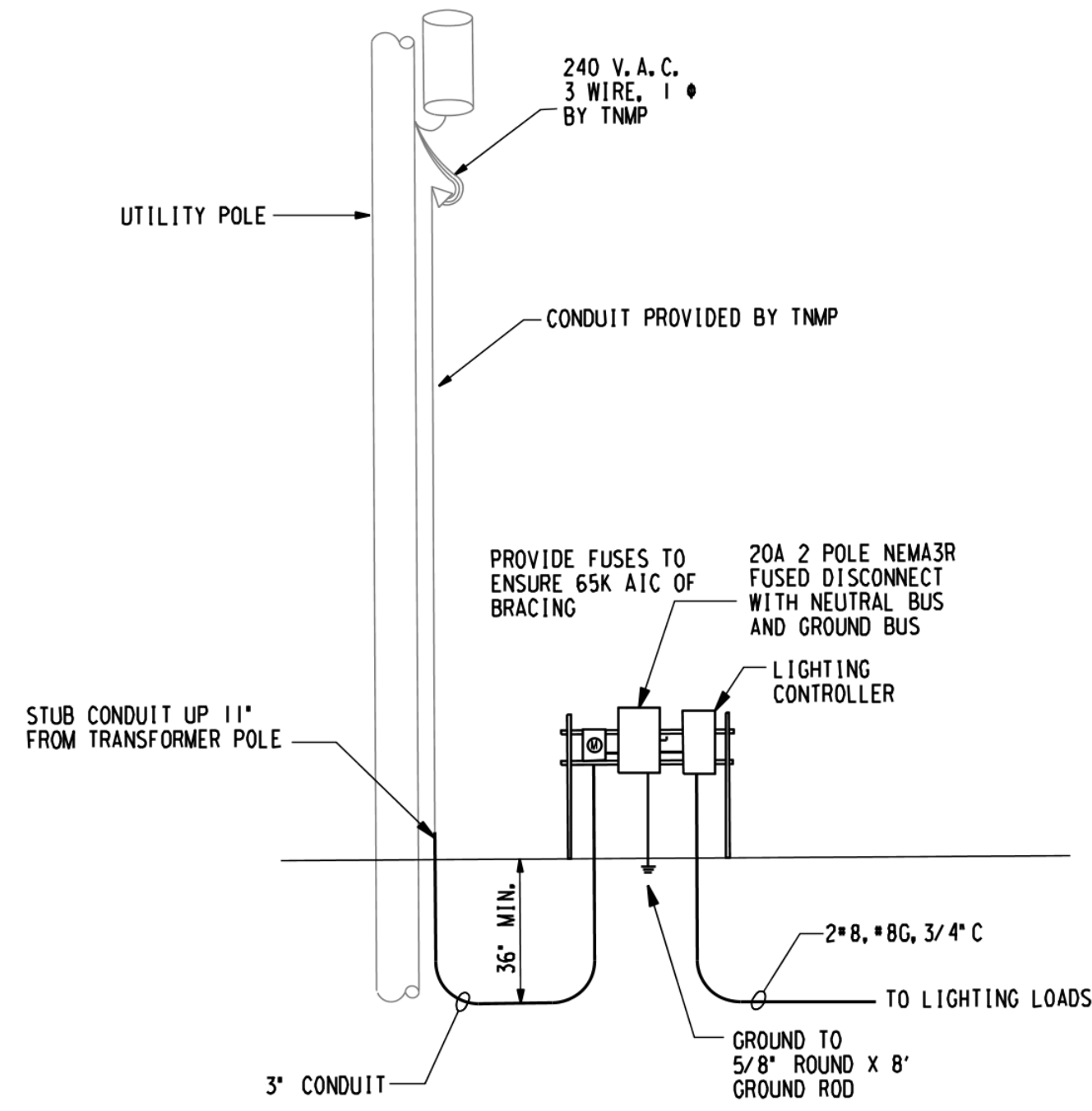
02 8TH STREET TO 6TH STREET LIGHTING PLAN
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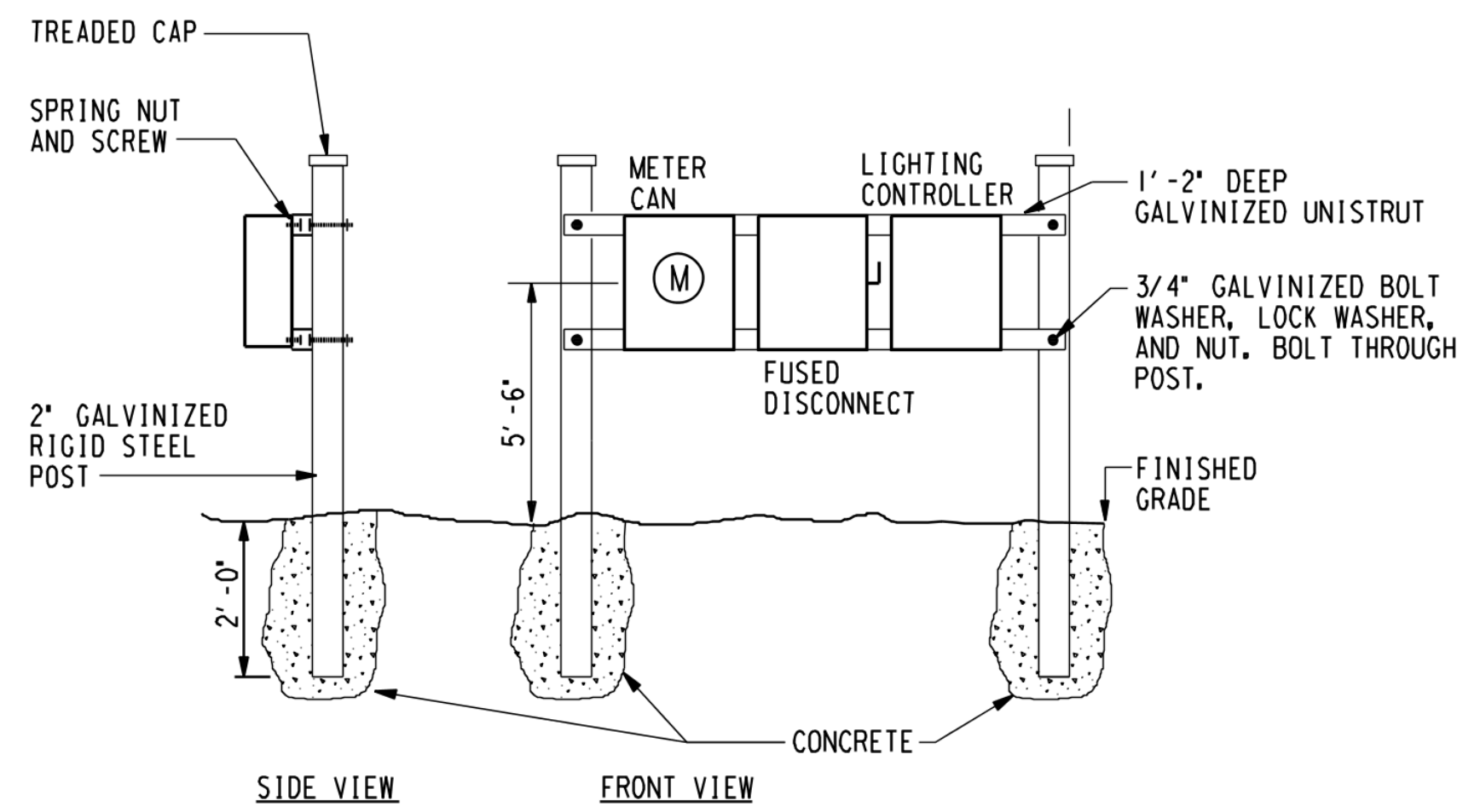
LIGHTING SCHEDULE							
TYPE	DESCRIPTION		LAMP/ Lumens / ColorTemp	MOUNTING	VOLT	WATT	NOTES
GP1	Decorative Pedestrian Light		LED / 9725 / 4000K	Pole	240	77	
	MFR: Holophane	CATALOG NUMBER: Fixture: ESPL2 P40 40K AS 5 B 5 GWDF13 200 BK Arm: GAC48/1 CA BKH Pole: CLA 16 LSJ 17 P12 ABG BK					

240 Volt, 1 Phase Utility Power Load Analysis - Texas Avenue Lighting

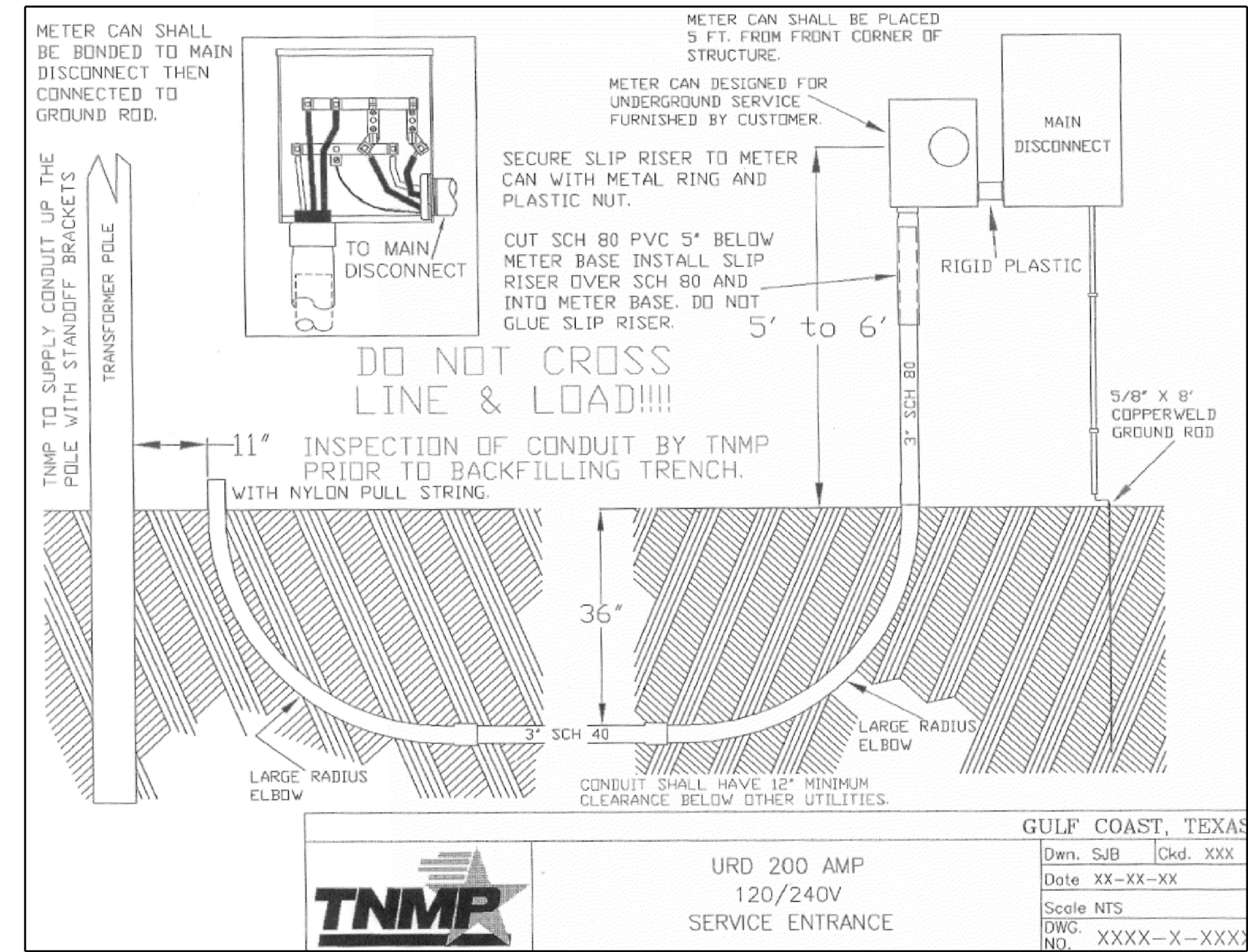
Lighting	31 Fixtures	77 VA/Fixture	kVA	Amps
			2.4	10
		Continuous Load Factor	0.6	2.5
			3	12.5



01 ELECTRICAL ONE-LINE
NOT TO SCALE



02 ENCLOSURE MOUNTING DETAIL
NOT TO SCALE



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Revisions

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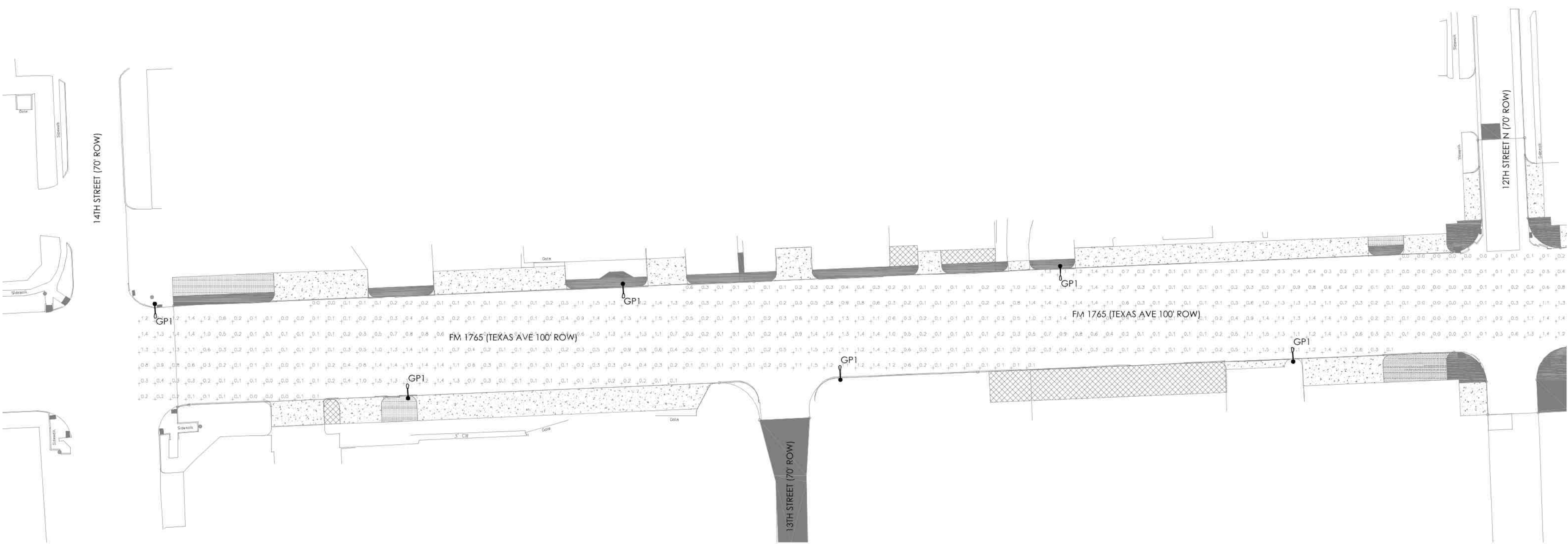
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Written dimensions on these drawings shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variation from the dimensions and conditions shown by these drawings.

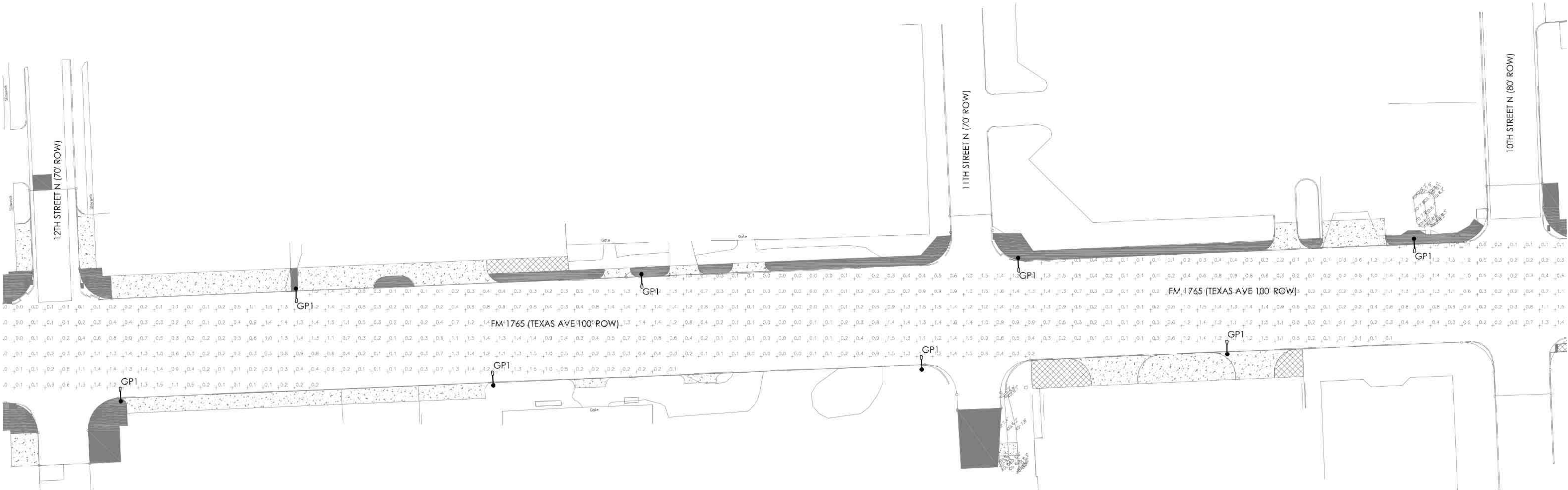
Texas Avenue Street Lighting
Texas City, Texas
Photometrics

Revisions

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Date 11/17/2020	Sheet 03 of 05



1 14th Street to 12th Street Photometrics
Scale: 1/32" = 1'-0"



2 12th Street to 10th Street Photometrics
Scale: 1/32" = 1'-0"

Type	Description	Manufacturer / Number	Voltage	Notes
GP1	Roadway and LED aluminum pole	Holophane / ESPL2 P40 40K AS S B 5 GW DF13 200 BK CLA 16 L5J 17 P12 ABG BK GAC 48/1 CA BKH	Per electrical engineer	See city supplied foundation detail.

1 Lighting Schedule
NTS

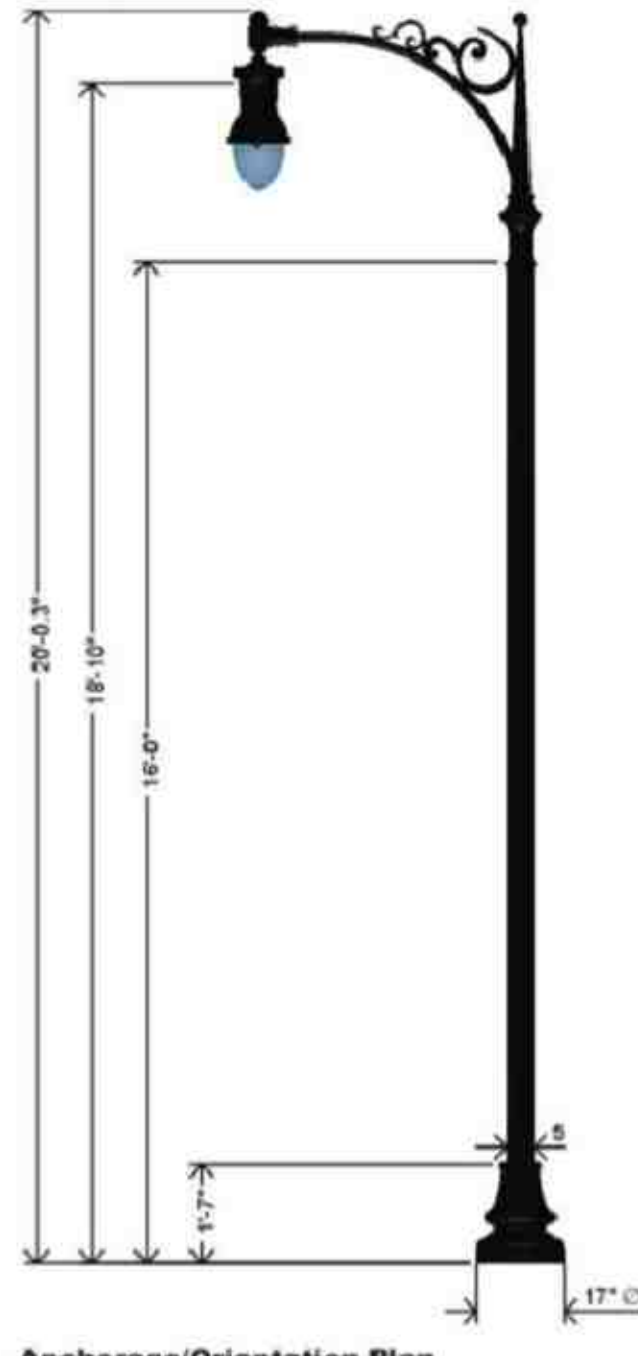


Columbia Aluminum Pole
GAC
Esplanade® LED Pedestrian Series

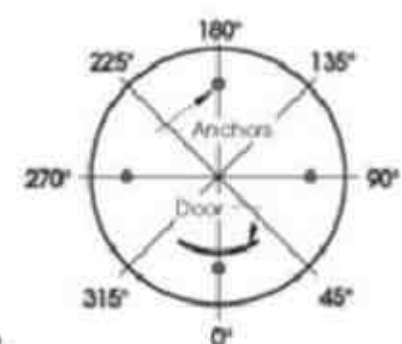


Catalog Number ESPL2 P40 40K AS S B 5 GWDF13 200 BK CLA 16 L5J 17 P12 ABG BK GAC 48/1 CA BKH	
Type:	Notes:

Columbia Aluminum Pole
GAC
Esplanade® LED Pedestrian Series



Anchorage/Orientation Plan



SPECIFICATIONS

FIXTURE

Esplanade LED Pedestrian
 {ESPL2 P40 40K AS S B 5 GWDF13 200 BK}
 Prefix: ESPL2
 LED Package: LED Performance Package 40
 Color Temperature: 4000 Series CCT
 Voltage: Auto-Sensing 50/60 HZ (120-277V)
 Mounting: Quick Lock Stem Mount
 Finish: Black
 Optics: Teardrop Symmetric
 Skirt: None
 Part Night Dimming: None
 Prewired Leads: None
 Photocontrol Receptacle: None
 NEMA Label: None
 Photocontrols: None
 RCAM Dimming Controls: None
 Levelling Fitter: GlasWorks Decorative Arm Fitter
 Pipe: Slips Fits 2.00 Nominal Pipe (2.38") OD
 Fitter Finish: Black
 Fitter Photocontrol Receptacle: None
 Surge Protector: None
 Luminaire EPA: 1.43
 Luminaire Weight: 49

ARM / MOUNTING BRACKET

GAC Series Crossarm; Oriented at 0 degrees.
 {GAC 48/1 CA BKH}
 Series: GAC Series Roadway Arm
 Arm Length: 48" Roadway One Way Arm
 Material Type: Cast Aluminum
 Arm Finish: Black
 Levelling Fitter: None
 Mounting: None
 Fitter Finish: None
 Photocontrol: None
 Cover for Photocontrol: None
 Arm EPA: 2.48
 Arm Weight: 53

POLE

Columbia Aluminum Pole
 {CLA 16 L5J 17 P12 ABG BK}
 Prefix: Columbia Aluminum Pole
 Height: 16 feet (Actual Height: 16'-0")
 Shaft Style: SlatLink 5.25inch Fluted, .25 wall
 Base: 17 inch Round Base
 Tenon: 3 X 12 Tenon
 Pole Mounting: Anchor bolts, galvanized steel
 Finish: Powder Coat Paint Finish, Black
 Base EPA: 1.5285
 Base Weight: 175
 Anchor Bolt: AB-31.4

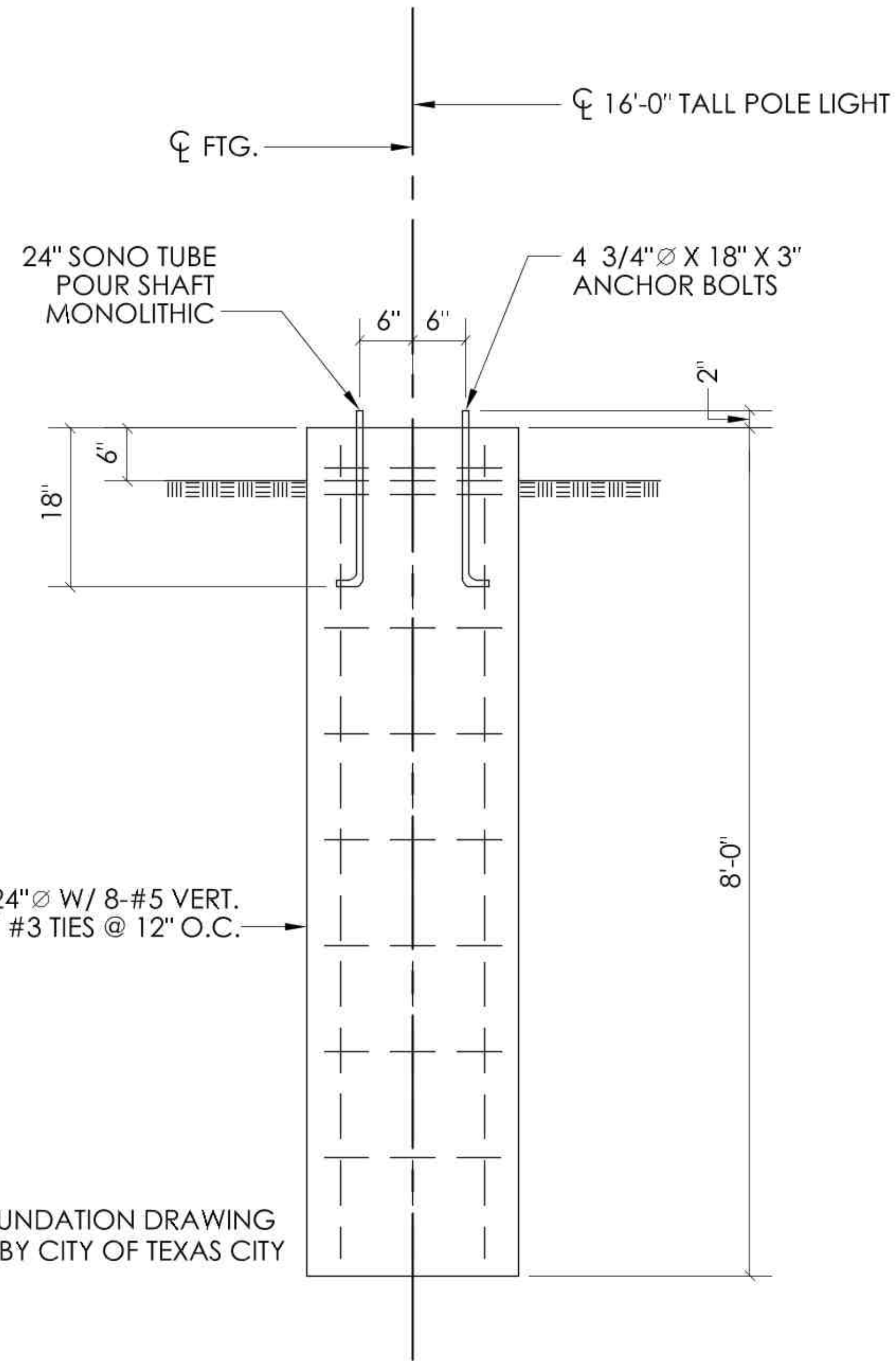
Your Assembly Wind Load status: Pass
 Passed for wind speed: 90 MPH
 For further details, review the Structural Analysis Report.

Customer Approval:

Job Name: Texas Ave. City of Texas City
 Client Name:

signature _____ date _____ Created By: Anthony Kennedy Date: 06-Aug-20

Catalog #ESPL2 P40 40K AS S B 5 GWDF13 200 BK CLA 16 L5J 17 P12 ABG BK GAC 48/1 CA BKH Dwg. # HLP-54906 Page: 2 of 2



NOTE: FOUNDATION DRAWING SUPPLIED BY CITY OF TEXAS CITY

3 Foundation Detail
Scale: 1"=1'-0"



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The Lighting Designer shall not be responsible for the means, methods, techniques, sequences or procedures on construction or installation, or for the acts and omissions of the Client, the Client's Consultant's, or the Contractor.

Neither the Client nor his Consultants shall make any changes to the Designer's Drawings, Specifications, or other documents without written permission from the Designer. Such changes include, but are not limited to: substitution and/or by manufacturers, variations in layouts, quality and quantity of fixtures, lamps, etc.

Written dimensions on these drawings shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variation from the dimensions and conditions shown by these drawings.

Texas Avenue Street Lighting
 Texas City, Texas

Revisions	

Drawn KED	Sheet Number LT-05
Checked LTG	
Scale 1"=1'-0"	
Date 11/17/2020	Sheet 05 of 05

2 Lighting Cutsheet
NTS

Catalog #ESPL2 P40 40K AS S B 5 GWDF13 200 BK CLA 16 L5J 17 P12 ABG BK GAC 48/1 CA BKH Dwg. # HLP-54906 Page: 1 of 2