



ADDENDUM NO. 3

Issue Date: July 07, 2020

Project Name: Moorhen Marsh Low Energy Aquatic Plant System

Bid Number: 2020030

Bid Opening Date: **July 14, 2020**

This addendum is being released to modify bid documents and to answer questions received to date. Please be advised that no further questions will be answered for this bid as the deadline for questions has passed.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

QUESTIONS AND ANSWERS:

1. Question regarding Luminaire Schedule on E5 Top right of the page gives pole description as direct burial concrete. The part number in the luminaire schedule is for an aluminum pole. Please advise.

Response: The pole shall be concrete. The note in the Luminaire Schedule on Sheet E5 (attached) has been revised to state: "MOUNTED ON UTILITIES STRUCTURES INC. POLE # US117TI-6636. 12 FT ABOVE & 5 FT BELOW."
2. Section 02235. In the landscape specs 3.25 & 3.26, the notes in the drawing L2 regarding the "PURPLE" color code planting for Wetland Polishing Marsh, it mentions using 2" plugs for the aquatic plant, duck potato. When other aquatic plants (pickerelweed, bulrush & club rush) in 3.22 & 3.23 were specified as being bare root. Can we use the bare root for the duck potato also.

Response: For bidding purposes use 2" plugs for duck potato.
3. Section 02235-2. Sect 1.4 it mentions not using glyphosate, which is very commonly used for maintenance of nuisance exotics, is prohibited. Can we verify that using glyphosate is prohibited or get permission to use it?

Response: Under no circumstance is glyphosate or any product containing glyphosate allowed to be used on County projects or County property.

4. Section 02235-2. Sect 1.4, all trees that are NOT removed due to the work, you want left alone or cut, treated but not pulled from the canopy. Is this correct?

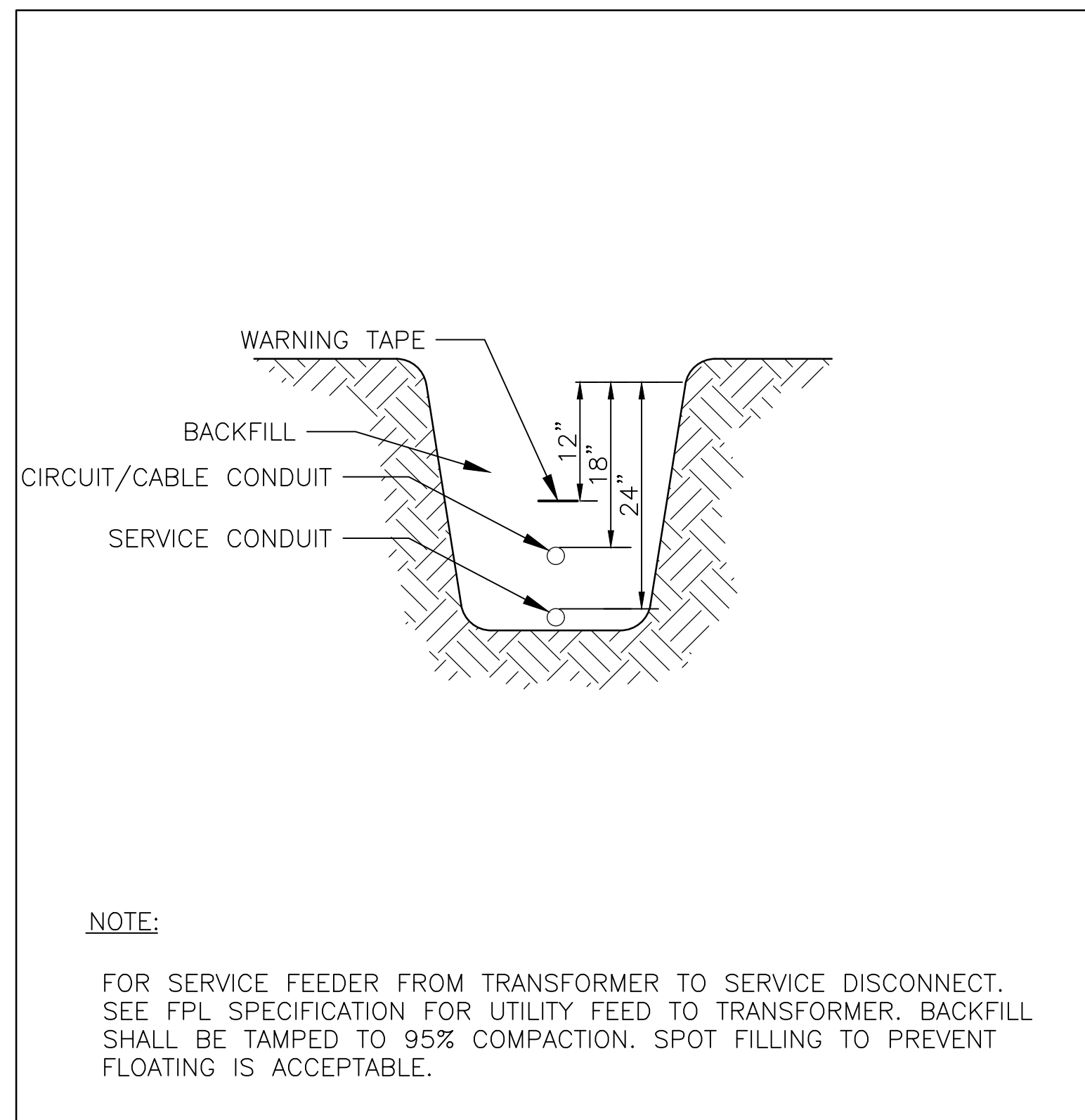
Response: All vines in trees that are to remain shall be dealt with as specified in paragraph 1.4.C. They are not to be pulled from the tree canopy because doing so may damage tree branches.

5. We are bidding the Moorhen Marsh project and would like to see if we can request the CAD or 3D BIM model from the design team. We use these models as reference to complete preconstruction services and takeoffs.

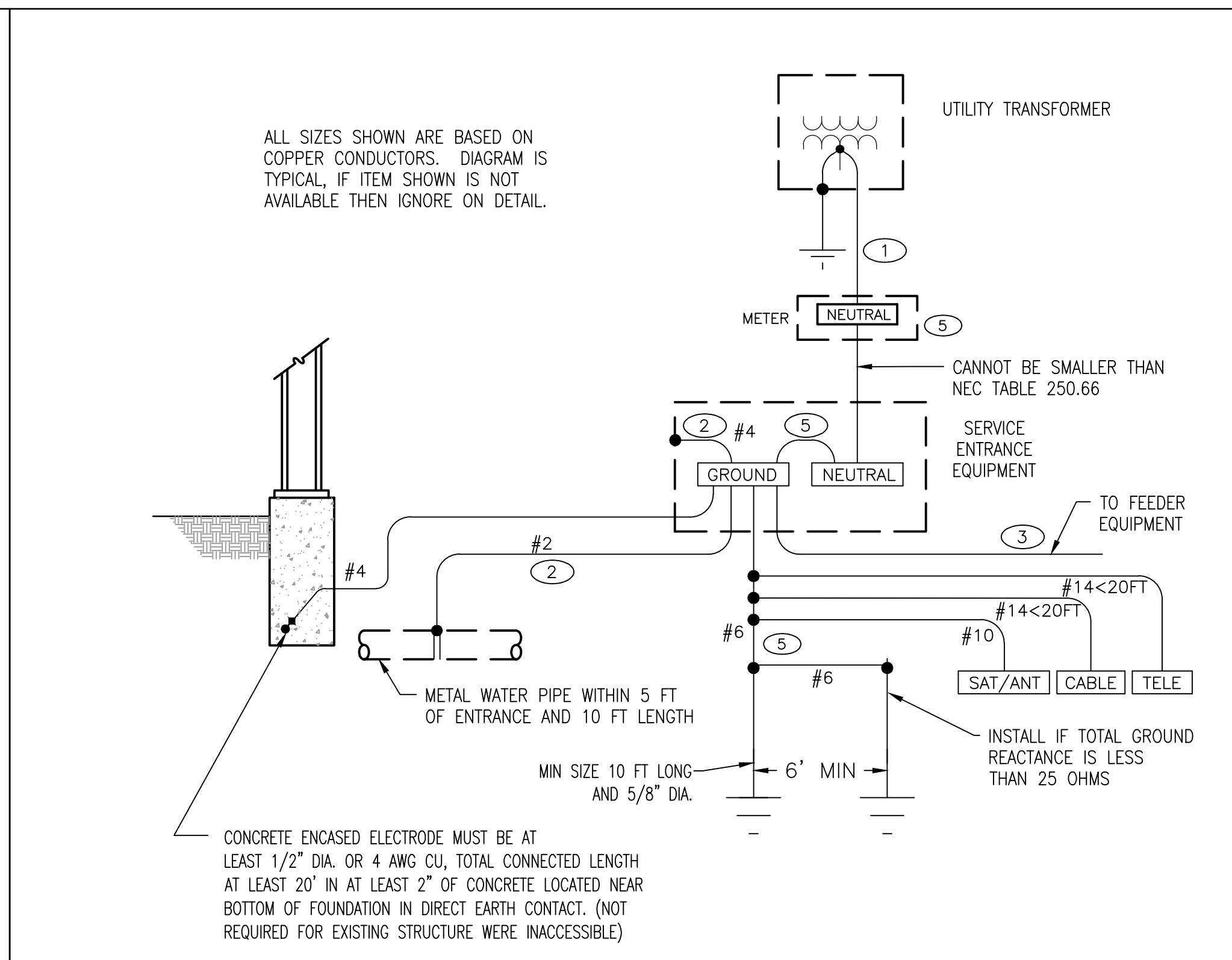
Response: At this time the information is not available. It may be made available to the selected contractor upon award of the project.

Attachments:

Revised Sheet E5 – Electrical Equipment Schedules and Details



TRENCHING DETAIL (TYPICAL)
SCALE: NONE



SERVICE ENTRANCE GROUNDING SYSTEM DETAIL
SCALE: NONE

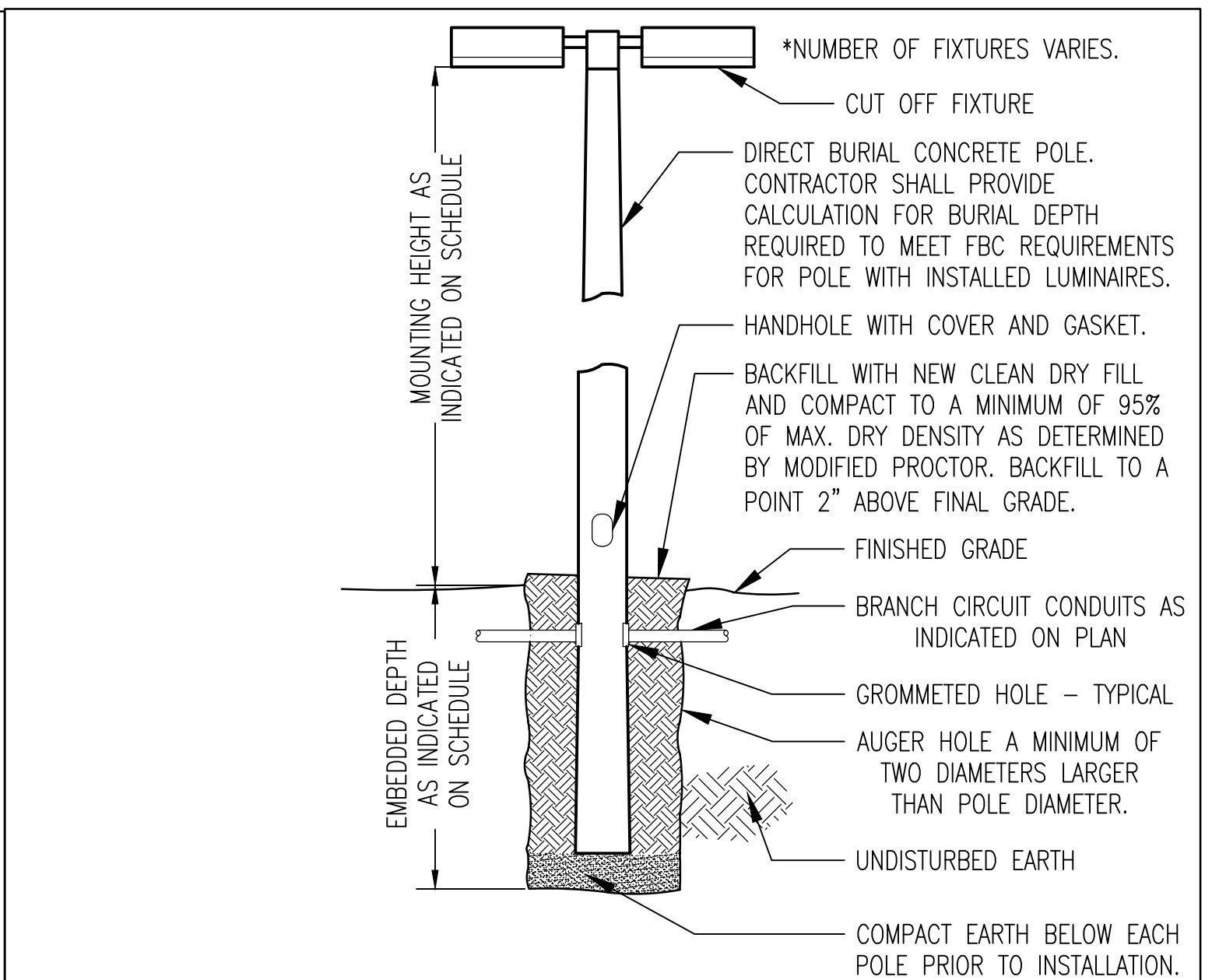
KEYED NOTES

- INSTALL GROUNDED (NEUTRAL) CONDUCTOR WITHOUT EGC. NEUTRAL CONDUCTOR CANNOT BE SMALLER THAN NEC TABLE 250.66. SEE ELECTRICAL ONE-LINE FOR SIZE.
- INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVER CURRENT DEVICE SIZE. IF THE FEEDER SUPPLIES A SEPARATE STRUCTURE THEN DRIVE AN ADDITIONAL GROUND ROD AT STRUCTURE AND GROUND TO PANEL, BUT ISOLATE NEUTRAL.
- INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- GROUND ROD CAN BE CONNECTED TO NEUTRAL OF METER INSTEAD OF SE GROUND. MIN SIZE SHALL BE 5/8" X 10'

GENERAL NOTES

- EACH GROUNDING ELECTRODE SHOWN SHALL ONLY BE USED IF PRESENT AT EACH STRUCTURE/BUILDING SERVED. IF NONE ARE PART OF THE STRUCTURE/BUILDING THAN AT MINIMUM A GROUND ROD ELECTRODE SHALL BE INSTALLED. A METAL WATER PIPE SHALL NOT BE USED AS THE SOLE GROUNDING ELECTRODE SYSTEM (GES).
- BOND GAS PIPE ON THE BUILDING SIDE OF THE GAS METER THAT IS SIZED BASED ON THE OCPD SERVICING THE STRUCTURE/BUILDING USING NEC TABLE 250.122 WITH A MINIMUM SIZE OF #6 CU.
- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVER CURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVER CURRENT DEVICE SIZE.
- BOND HOT AND COLD WATER PIPING SYSTEMS.
- INSTALL LISTED IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER PROOF HARDWARE OR INSTALL EXOTHERMIC WELD FOR CONNECTIONS.
- INSTALL 5/8" X 10' GROUND ROD.
- OTHER METAL PIPING OR EXPOSED STRUCTURAL METALS THAT ARE LIKELY TO BE ENERGIZED SHALL BE BONDED TO THE SERVICE EQUIPMENT ENCLOSURE USING THE LARGEST GROUND WIRE.

2



GENERAL DESCRIPTION:

- DIRECT BURIAL CONCRETE POLE WITH HANDHOLE COVER.
- PROVIDE SIGN AND SEALED SHOP DRAWING SIGNED BY A STRUCTURAL ENGINEER DEMONSTRATING POLE AND FIXTURE SUPPORT COMPLIES WITH FBC WIND LOAD REQUIREMENTS.

ELECTRICAL:
CONNECT 1 #12 AWG INSULATED (TW GREEN) STRANDED CU BOND WIRE CONNECTING LUMINAIRE WITH GROUNDING LUG AT TOP AND BASE OF POLE THEN TO CIRCUIT EQUIPMENT GROUND CONDUCTOR.

LIGHTING POLE WITHOUT GROUND ROD DETAIL (TYPICAL)
SCALE: NONE

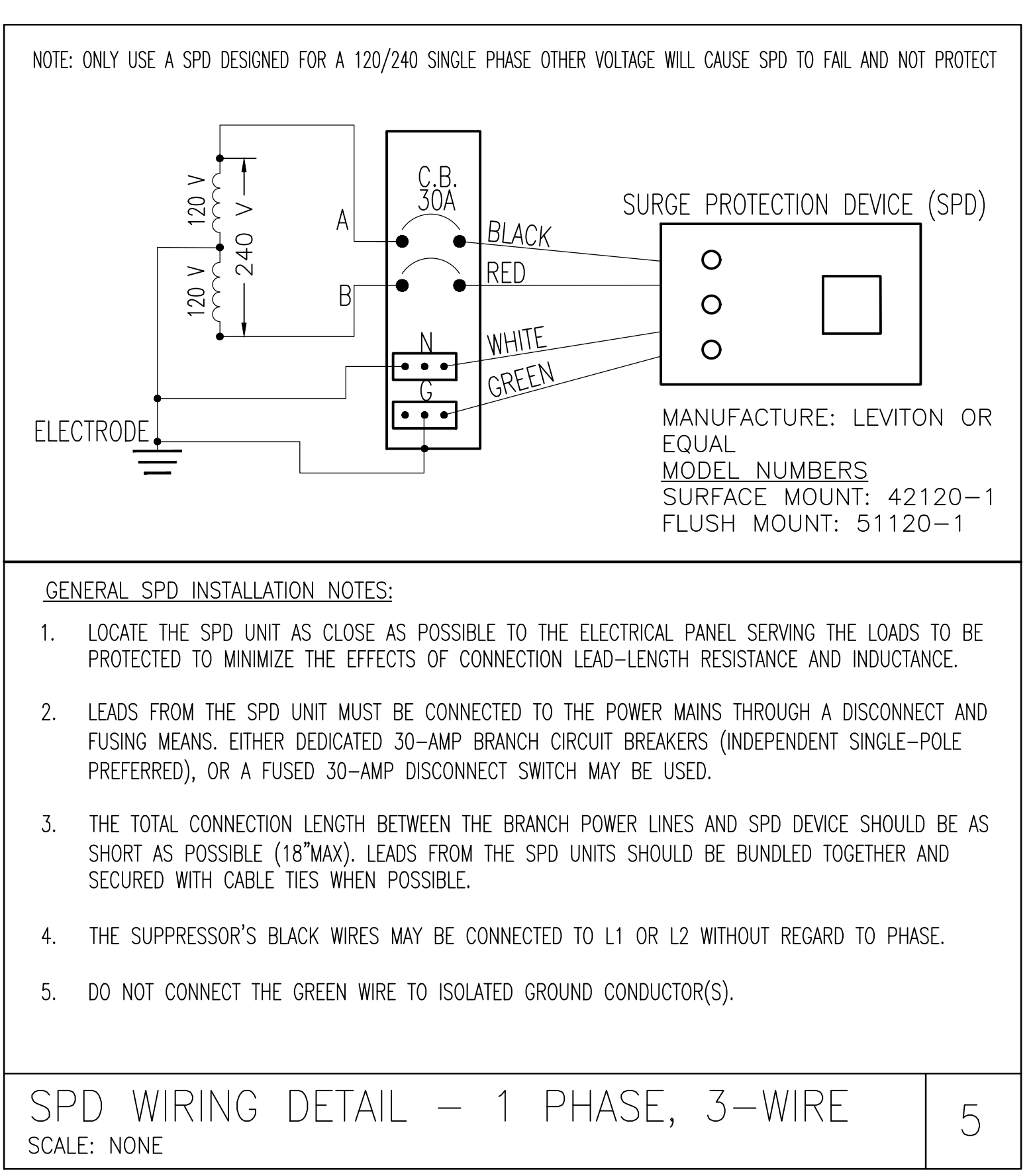
CALLOUT	SYMBOL	DESCRIPTION	VOLTS	AMPS	KVA	HP	CIRCUIT	WIRE CALLOUT	NOTES
FLEXRAKE		DUPERON FLEXRAKE MOTOR	480	1.1	0.91	1/2 HP	BSP-1,3,5	3#12,#12G	SUPPLY A LOCAL DISCONNECT.
FM1		BADGER METER M-SERIES M2000 REMOTE AMPLIFIER	120	0.22	0.03		P2-1	1#10,#10N,#10G	SUPPLIED WITH THREE WIRE-SHEATHED CABLE WITH OVERALL CABLE DIAMETER OF 0.2-0.45 INCH. RUN FACTORY SUPPLIED DATA CABLE TO DETECTOR IN 1" CONDUIT. INSTALL IN TYPE 316 STAINLESS STEEL ENCLOSURE WITH SNAP SWITCH AS DISCONNECT.
FM2		BADGER METER M-SERIES M2000 REMOTE AMPLIFIER	120	0.22	0.03		P2-3	1#10,#10N,#10G	SUPPLIED WITH THREE WIRE-SHEATHED CABLE WITH OVERALL CABLE DIAMETER OF 0.2-0.45 INCH. RUN FACTORY SUPPLIED DATA CABLE TO DETECTOR IN 1" CONDUIT. INSTALL IN TYPE 316 STAINLESS STEEL ENCLOSURE WITH SNAP SWITCH AS DISCONNECT.
PUMP 1		FLYTE NP N-3171.095	480	34	28.27	25 HP	PCP-2,4,6	3/4"C,3#8,#10G	
PUMP 2		FLYTE NP N-3301.185/095	480	77	64.02	60 HP	PCP-8,10,12	1-1/2"C,3#1,#8G	
SP		DAYTON 3YU69: 1/4 HP SUBMERSIBLE SUMP PUMP, VERTICAL SWITCH TYPE, POLYPROPYLENE BASE MATERIAL.	120	1.5	0.18		P2-3	1#10,#10N,#10G	RUN POWER CORD TO TYPE 316 STAINLESS STEEL ENCLOSURE WITH SNAP SWITCH AS DISCONNECT.
SP		DAYTON 3YU69: 1/4 HP SUBMERSIBLE SUMP PUMP, VERTICAL SWITCH TYPE, POLYPROPYLENE BASE MATERIAL.	120	1.5	0.18		P2-1	1#10,#10N,#10G	RUN POWER CORD TO TYPE 316 STAINLESS STEEL ENCLOSURE WITH SNAP SWITCH AS DISCONNECT.
WELL			240	28	6.72	5 HP	P1-10,12	3/4"C,2#6,#10G	

SEE COUNTY SPECS FOR EXACT DESCRIPTION AND REQUIREMENTS.

SYMBOL	NEMA	VOLTS	FEATURES	NOTE 1	NOTE 2
	5-15-2R	120V 1P 2W	GND	STANDARD WALL RECEPTACLE MOUNTED 48" AFF	
	5-15/20R	120V 1P 2W	WP, GFI, GND	PEDESTAL RECEPTACLE	PEDOC POWER SOLUTIONS 1P24V S/S OUTLET BOX W/INTEGRAL BASE MOUNTED TO CONCRETE PAD.
	5-15/20R	120V 1P 2W	GFI, GND	STANDARD WALL RECEPTACLE MOUNTED 18" AFF (WEATHER PROOF PER NEC, GFCI)	

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
A		(1) 77W LED	LOW BAY PENDENT-TOP BAY LED	JBOX/HOOK /PIPE MOUNT	METALUX TBLED-LD1-8-W-UNV-L840-CD1-U	77	120V 1P 2W	
B		(1) 58W LED	WALL MOUNT LED LUMINAIRE W/PHOTOCCELL	WALL	LUMARK XTOR6B-PC1	58	120V 1P 2W	
S1		(1) 191W LED	LED SITE LUMINAIRE	POLE	MCGRAW EDISON GLEON-AF-03-LED-E1-5MQ-FINISH	191	120V 1P 2W	MOUNTED ON UTILITIES STRUCTURES INC. POLE # US11711-6636. 12 FT ABOVE & 5 FT BELOW.

SYMBOL	NOTE 1
\$	DECORA TYPE, SPECIFICATION GRADE, RATED 20 AMPS.



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TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE 2017 FLORIDA BUILDING CODE, 2014 INC. AND THE FLORIDA FIRE PREVENTION CODE (FPI) (2010)

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MOORHEN MARSH LEAPS
 ELECTRICAL SCREENING & PUMPING
 OPERATIONS BUILDING
 INDIAN RIVER COUNTY FL

ELECTRICAL
 EQUIPMENT
 SCHEDULES &
 DETAILS

BID SET

DATE: 7/1/20
 SHEET
E5
 PROJECT NO.
 TC19032