

ADDENDUM 3

DATE: October 14, 2026

Contract: 26-C-00038; Pump Station Resiliency and Reliability Improvements (A)

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM THIS NOTICE.

These Plans for the referenced projects come from uncontrolled sources and do not conform to WCAG 2.1 at level AA. Individuals with disabilities seeking assistance with the individual project plans or specifications should e-mail Contractadministration@tampagov.net.

Item 1 – Plan modifications are described below for the respective pump stations. Additional attachments are the revised plan sheets.

Curiosity Creek

Remove all work associated with the new automatic transfer switch and associated power conductors and conduits. The existing onsite automatic transfer controller will be removed and replaced with a new automatic throwover (ATO control panel). New control wiring will be provided. The PC panel will be removed and replaced with a PC/TC lighting panel as shown. The following drawings and specifications are revised:

- Clouded revisions on the following sheets: E3, E4, E7, E8, E10, E11, and I2
- A new specification: 26 36 24 – Automatic Throwover Controls
- Removal of the existing specification: 26 36 23 – Automatic Transfer Switches

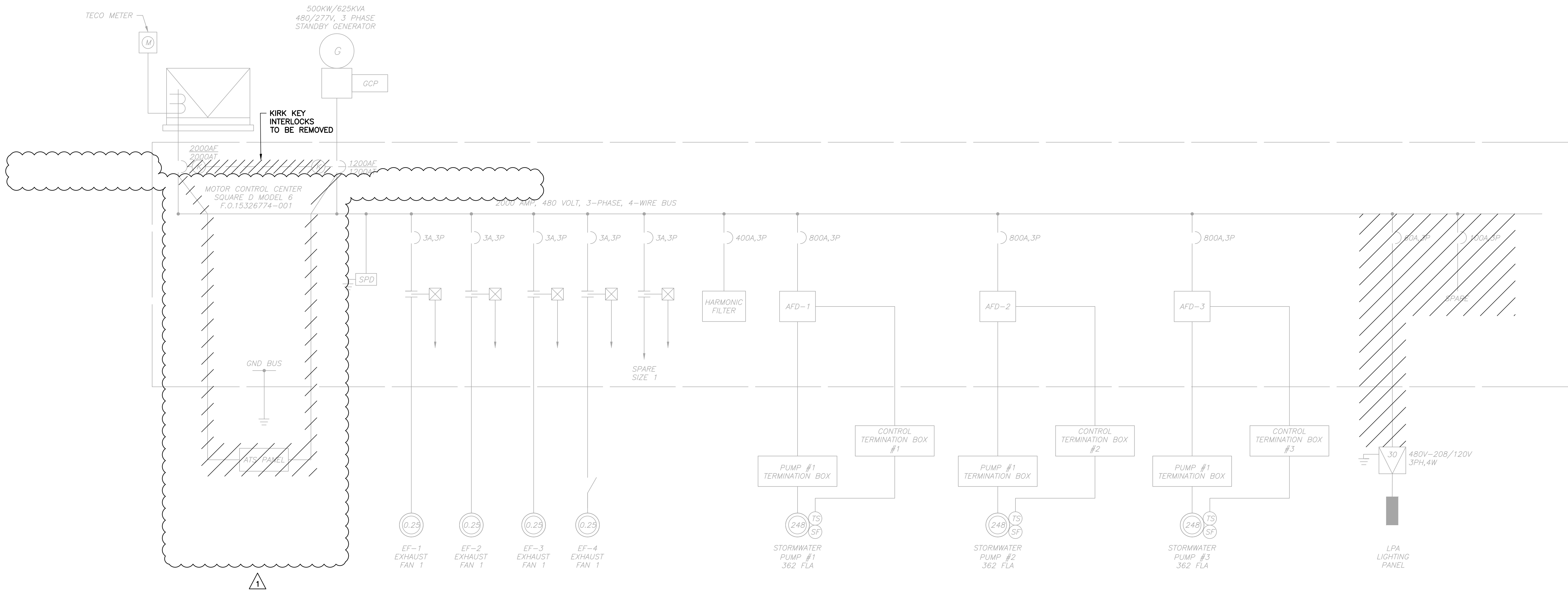
Donut Pond

The level element installation detail has been revised, refer to Drawing E8.

Item 2 – Include the attached Section 26 36 24 Automatic Throwover Controls to the bid specifications.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to ContractAdministration@tampagov.net.

Jim Greiner, P.E., Contract Management Supervisor

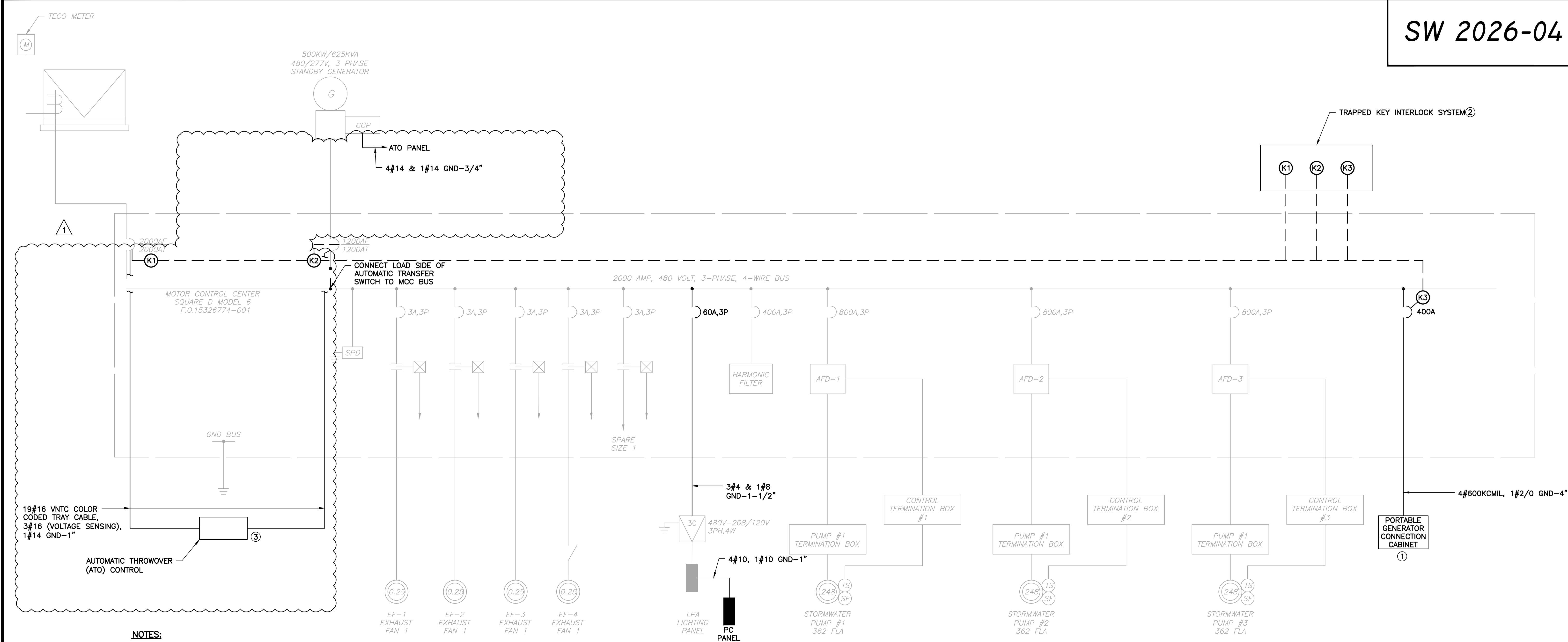


EXISTING MCC SINGLE LINE DIAGRAM (DEMOLITION)

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division	CURIOSITY CREEK SINGLE LINE DIAGRAM (DEMOLITION)	SHEET E3 OF 27
1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP				
2			5			CKD: MJC				
3			6			DATE: 4/27/26				

Plot Date: Tuesday, September 15, 2026

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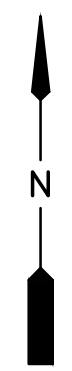
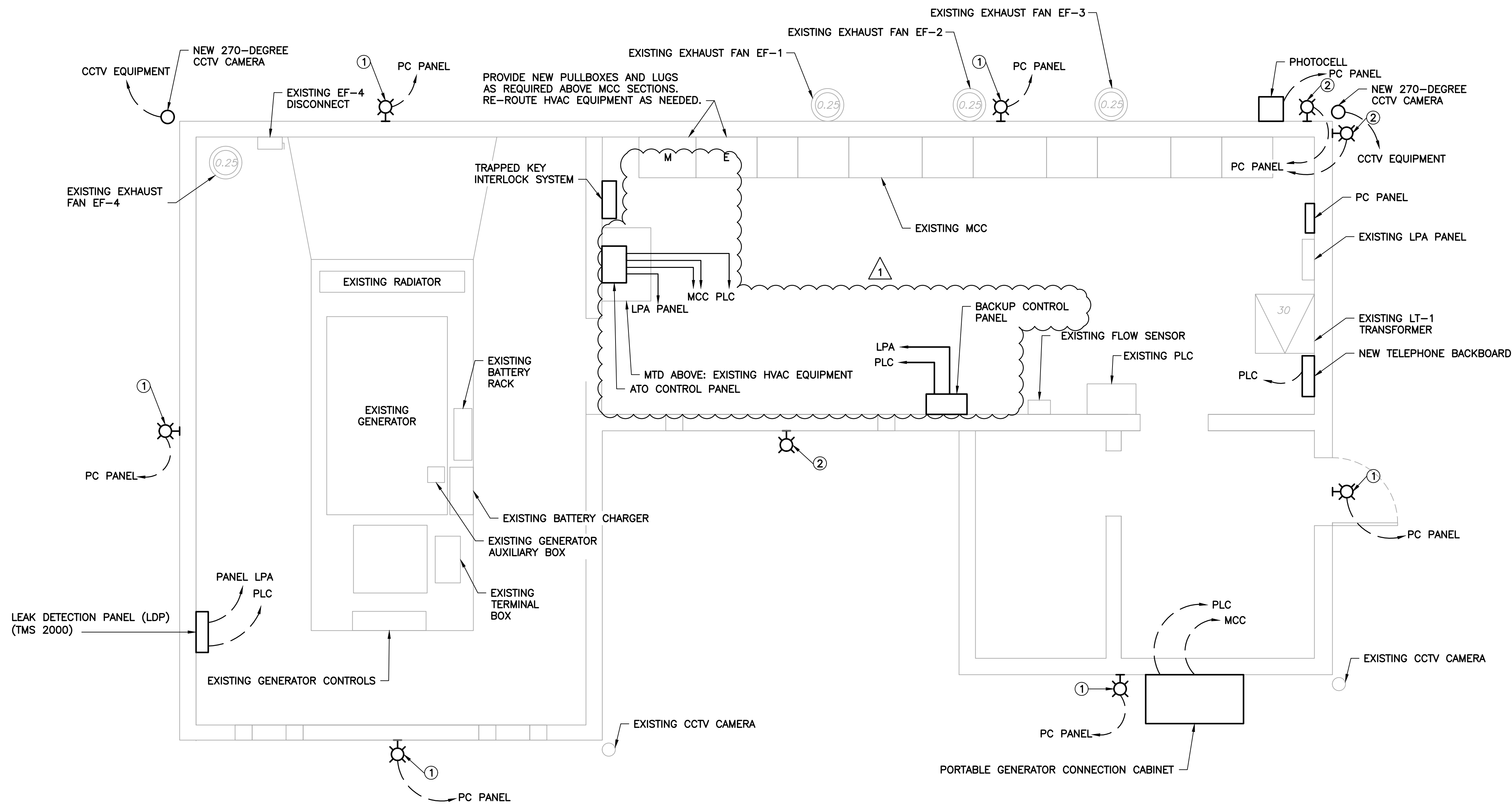


- NOTES:**
- ① PROVIDE POWER ASSEMBLES GENERATOR CONNECTION BOX WITH THE FOLLOWING RATINGS:
--400 AMPS
--277/480 VOLT, 3-PHASE, 4-WIRE
--NEMA 4, LARGE ENCLOSURE
--NEUTRAL 5-WIRE
- ② TRAPPED KEY INTERLOCK SYSTEM
- A. EQUIPMENT & MOUNTING
--(1) KEY EXCHANGE BLOCK: KIRK KEY "TYPE T" TRANSFER INTERLOCK (3-CYLINDER). SURFACE MOUNT ON ELECTRICAL ROOM WALL ADJACENT TO MCC AT 5'-0" AFF.
--(3) BREAKER LOCKS: MECHANICAL BOLT INTERLOCKS FOR UTILITY MAIN (K1), PERM GEN MAIN (K2), AND PORTABLE GEN (K3).
--LOCK CONFIGURATION: ALL BREAKER KEYS MUST BE TRAPPED WHEN BREAKER IS CLOSED, AND RELEASED WHEN BREAKER IS OPEN.
--COORDINATION: ALL CYLINDERS MUST BE FACTORY-COORDINATED.
- B. SEQUENCE OF OPERATION (TO ENERGIZE PORTABLE GEN)
--OPEN UTILITY MAIN (2000A). TURN AND REMOVE KEY K1.
--OPEN PERM GEN MAIN (1200A). TURN AND REMOVE KEY K2.
--INSERT KEY K1 AND KEY K2 INTO THE WALL-MOUNTED KEY EXCHANGE BLOCK. TURN BOTH KEYS.
--TURN AND REMOVE KEY K3 FROM THE KEY EXCHANGE BLOCK. (KEYS K1 & K2 ARE NOW LOCKED IN THE BLOCK).
--INSERT KEY K3 INTO PORTABLE GEN BREAKER (400A). TURN KEY TO UNLOCK, THEN CLOSE BREAKER.
- C. SEQUENCE TO RESTORE NORMAL POWER
--OPEN PORTABLE GEN BREAKER (400A). TURN AND REMOVE KEY K3.
--INSERT KEY C INTO KEY EXCHANGE BLOCK. TURN TO RELEASE KEY K1 AND KEY K2.
--RETURN KEY A AND KEY B TO THEIR RESPECTIVE MAIN BREAKERS TO UNLOCK AND CLOSE.

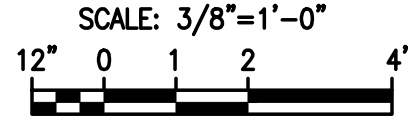
① ③ ATO CONTROL PANEL BY SCHNEIDER ELECTRIC. REFER TO SPECIFICATIONS

EXISTING MCC SINGLE LINE DIAGRAM (MODIFICATIONS)

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division	CURIOSITY CREEK SINGLE LINE DIAGRAM (MODIFICATIONS)	SHEET E4 OF 27
1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP				
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CURIOSITY CREEK ELECTRICAL MODIFICATIONS PLAN

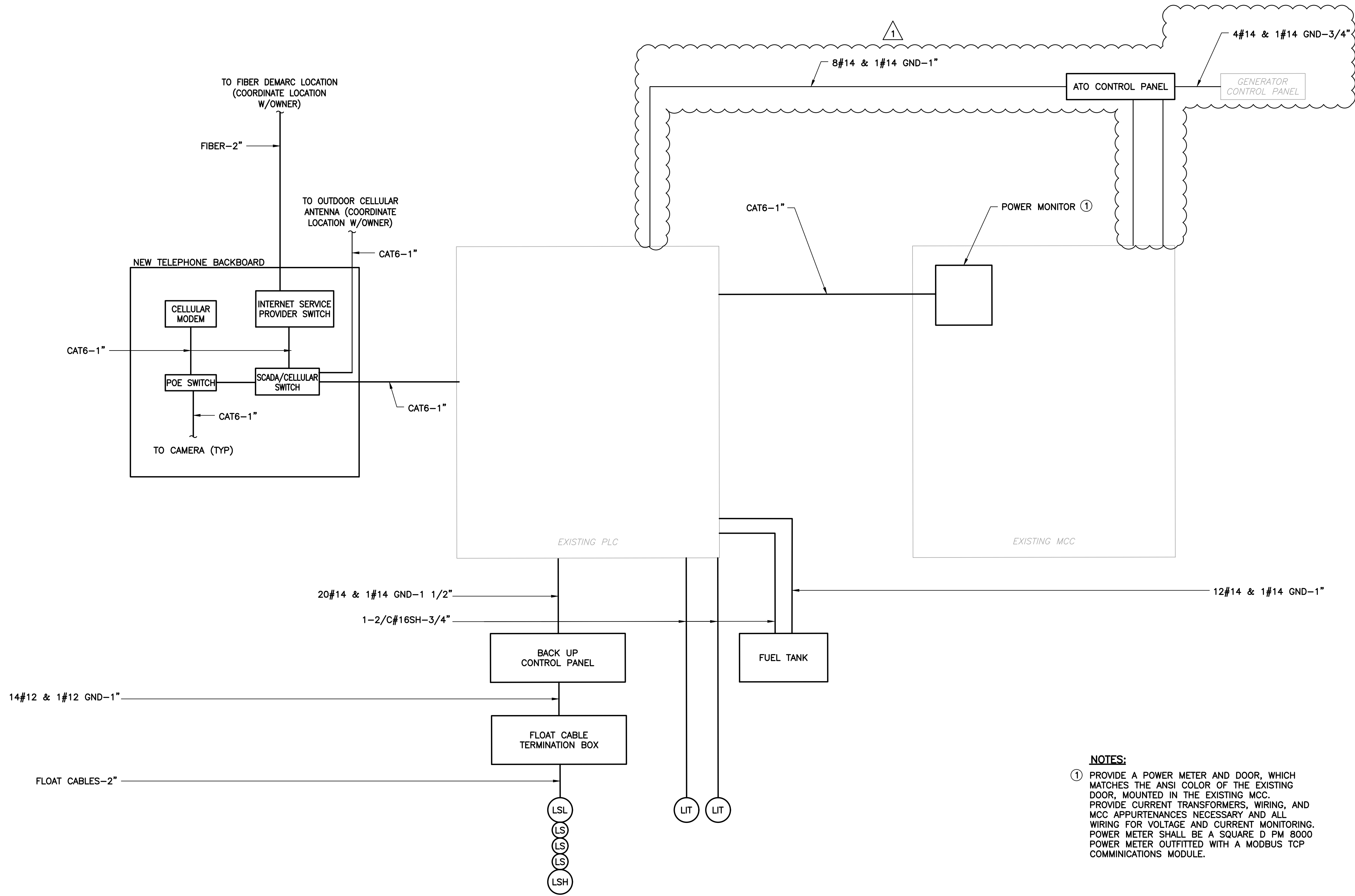


- NOTES:**
- ① REMOVE AND REPLACE EXISTING EXTERIOR LIGHT FIXTURE. PROVIDE NEW GARDCO GWS-A05-B40-T4M-UNV-SP2-BK FIXTURE. FIELD VERIFY AND REUSE EXISTING CONDUIT WHERE POSSIBLE. PROVIDE ALL HARDWARE NECESSARY.
 - ② ADD NEW EXTERIOR LIGHT FIXTURE IN LOCATION SHOWN, MOUNTED AT 10' ABOVE FINISHED GRADE. PROVIDE NEW STONCO WP60-SCT-G2-10-BZ, SELECTABLE WATTAGE=60W, CCT=4000K. PROVIDE NEW BOX AND TERMINATIONS TO EXISTING CIRCUIT, ROUTE NEW CONDUIT FROM EXISTING EXTERIOR LIGHTING CIRCUIT TO NEW FIXTURE. PROVIDE ALL HARDWARE NECESSARY.

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No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division	CURIOSITY CREEK ELECTRICAL MODIFICATIONS PLAN	SHEET E7 OF 27
1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP				
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NOTES:

① PROVIDE A POWER METER AND DOOR, WHICH MATCHES THE ANSI COLOR OF THE EXISTING DOOR, MOUNTED IN THE EXISTING MCC. PROVIDE CURRENT TRANSFORMERS, WIRING, AND MCC APPURTENANCES NECESSARY AND ALL WIRING FOR VOLTAGE AND CURRENT MONITORING. POWER METER SHALL BE A SQUARE D PM 8000 POWER METER OUTFITTED WITH A MODBUS TCP COMMUNICATIONS MODULE.

INSTRUMENTATION AND CONTROL RISER DIAGRAM

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division	CURIOSITY CREEK RISER DIAGRAM	SHEET E8 OF 27
1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP				
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①	PANEL: LPA					BUS: 125 AMP					VOLT: 120/208, 3P, 4W																		
	LOCATION: ELECTRICAL ROOM					MAIN: 125					REMARKS: —																		
	MOUNTING: SURFACE					POLES: 42—					A.I.C. SYMM: 22,000 AMPS																		
AMPS		POLE	WIRE	GND.	COND.	LOAD SERVED			BUS KVA			BUS			BUS KVA			LOAD SERVED			WIRE	GND.	COND.	POLE	AMPS				
									A			B			C														
20		1	—	—	—	ELECT./GEN LIGHTS			—			1			2			—			EMERGENCY LIGHTS			—	—	—	1	20	
20		1	—	—	—	EXHAUST FAN BATHROOM			—			3			4			—			OUTDOOR RECEP. (GFI)			—	—	—	1	20	
20		1	—	—	—	ELECT./GEN RECEPTACLES			—			5			6			—			ELEC. BLDG. EXT. LIGHTING			12	12	3/4"	1	20	
20		1	—	—	—	OFFICE/BATH RECEPTACLES			—			7			8			—			INSTRUMENTATION PANEL			—	—	—	1	20	
20		1	—	—	—	SUMP (GFI)			—			9			10			—			PUMP CONTROL PANEL			—	—	—	1	20	
20		2	—	—	—	GEN. CONTROL PANEL			—			11			12			—			OFFICE/BATH LIGHTS			—	—	—	1	20	
									—			13			14			—			FIRE ALARM PANEL			—	—	—	1	20	
1		20	1	12	12	3/4"	ATO CONTROL PANEL						15			16			0.10			LEAK DETECTION PANEL			—	—	—	1	20
20		2	—	—	—	AIR HANDLER			—			17			18			—			AIR COMPRESSOR			—	—	—	3	30	
									—			19			20									—	—	—	—	—	
20		1	12	12	3/4"	FLOW SWITCH 1			0.10			21			22			—						—	—	—	—	—	
20		1	12	12	3/4"	FLOW SWITCH 2			0.10			23			24			—			PC PANEL			12	12	3/4"	1	20	
15		1	—	—	—	RTU			—			25			26			—			SPACE			—	—	—	—	—	
20		1	12	12	3/4"	FLOW SWITCH 3			0.10			27			28			—			SPACE			—	—	—	—	—	
20		1	12	12	3/4"	BACK UP CONTROL PANEL			0.12			29			30			—			SPACE			—	—	—	—	—	
TOTAL (PHASE):						—			—			—			—			—			NOTES:								
TOTAL KVA:												—									—								
TOTAL AMPS:																													
TOTAL DEMAND AMPS:												—																	

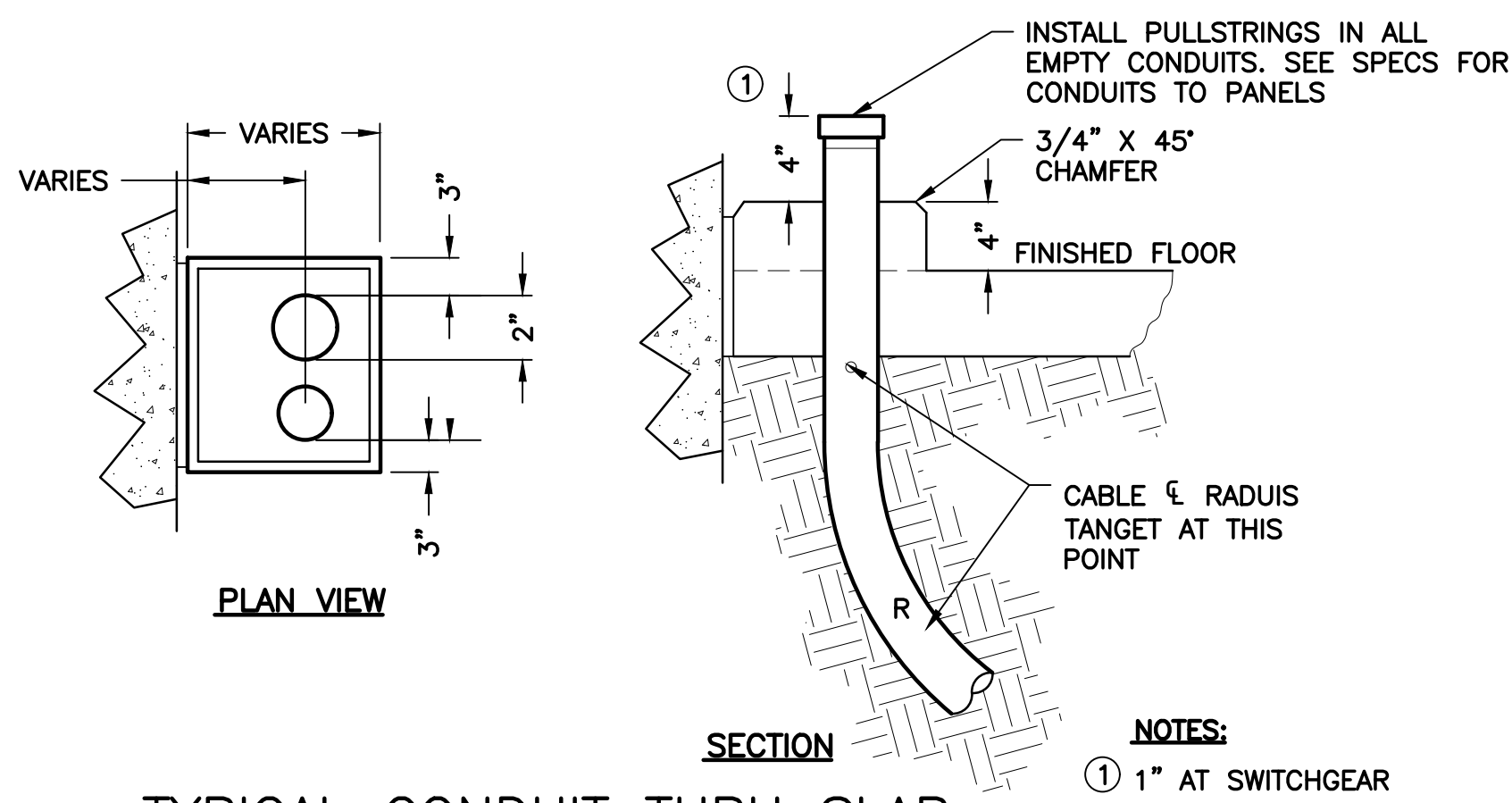
CURIOSITY CREEK PANEL LPA

- NOTES:
- ① EXISTING PANELBOARD SCHEDULE IS BASED ON EXISTING AS-BUILT INFORMATION. TRACE ALL EXISTING CIRCUITS, VERIFY EXISTING LOADS, AND PROVIDE NEW TYPE WRITTEN LAMINATED SCHEDULE.

MCC LOAD TABULATION		
480V-3φ-4W		
DESCRIPTION	LOAD	AMPACITY
EXHAUST FAN	4 @ 0.25 HP	= 4.40 AMPS
LPA LIGHTING PANEL		= 36.00 AMPS
STORMWATER PUMPS	3 @ 248 HP	=1086.00 AMPS
CONNECTED LOAD		= 1126.40 AMPS

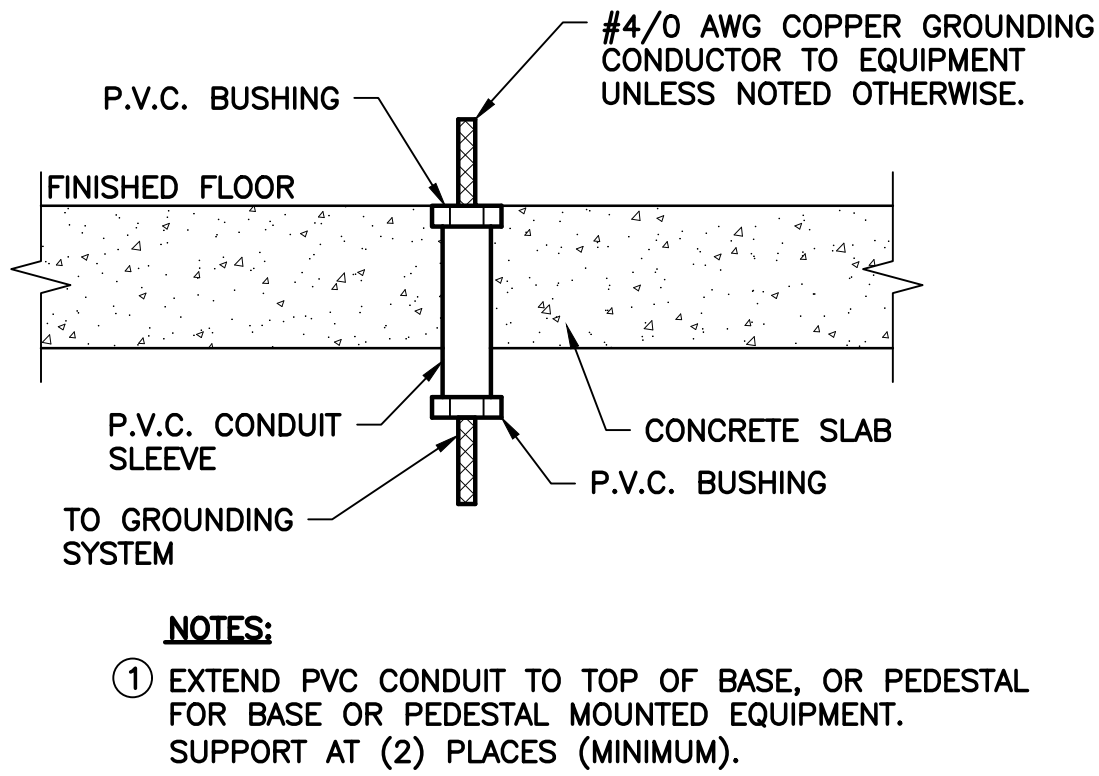
No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division	CURIOSITY CREEK LOAD TABULATION AND PANELBOARD SCHEDULES	SHEET E10 OF 27
1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP				
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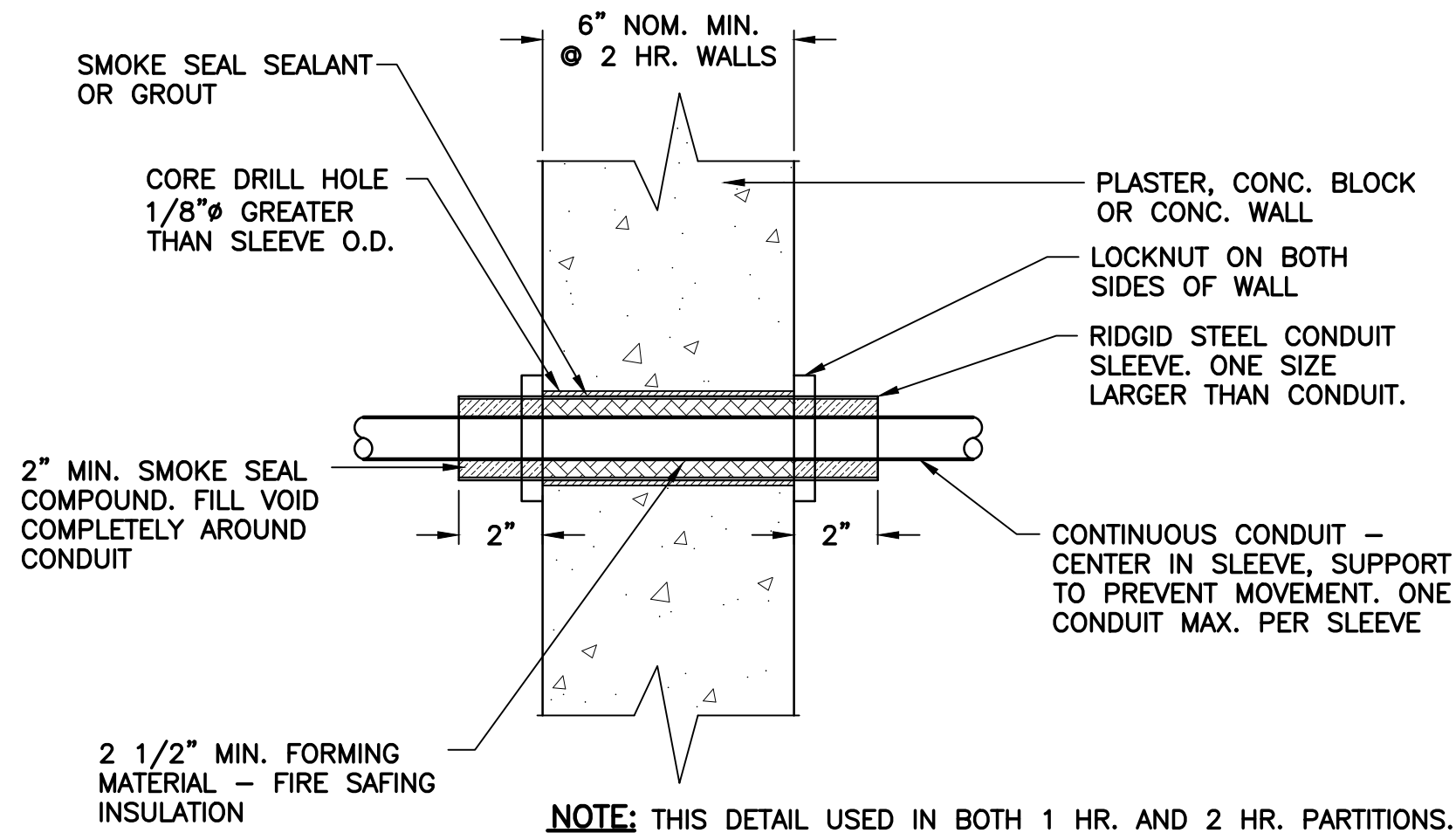
TYPICAL CONDUIT THRU SLAB

N.T.S.



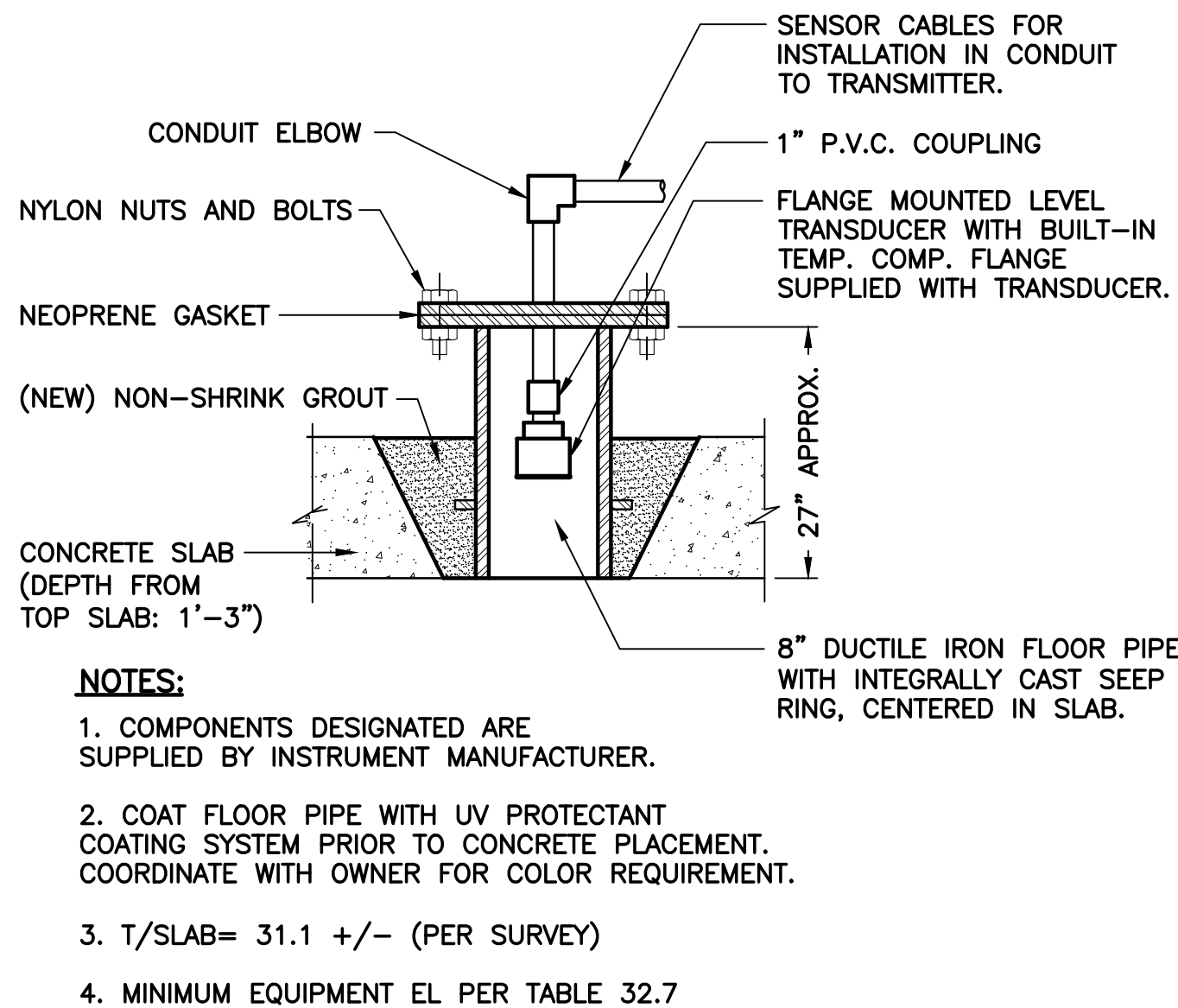
GROUNDING CONDUIT SLEEVE DETAIL

N.T.S.



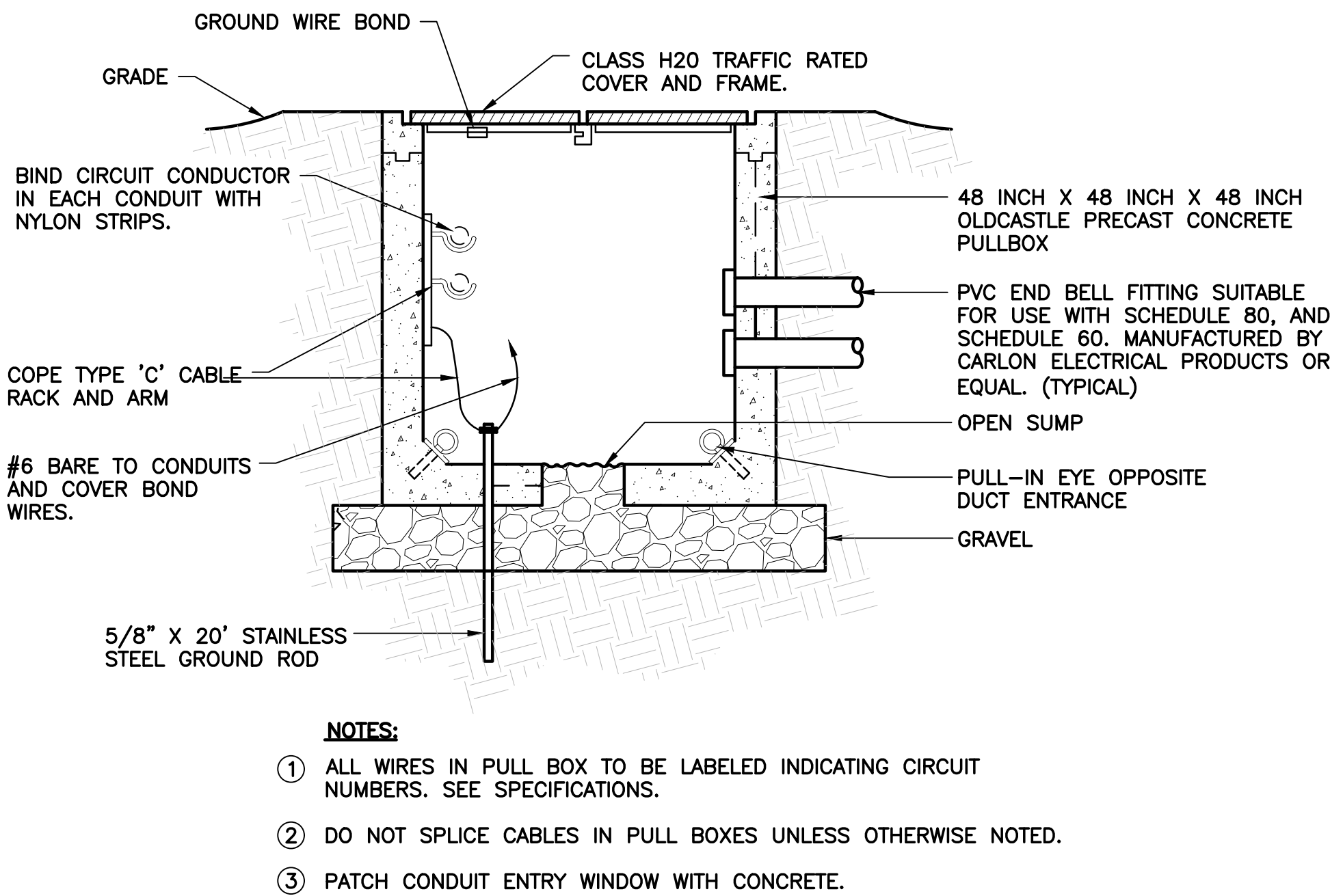
CONDUIT SLEEVE DETAIL AT WALL

N.T.S.



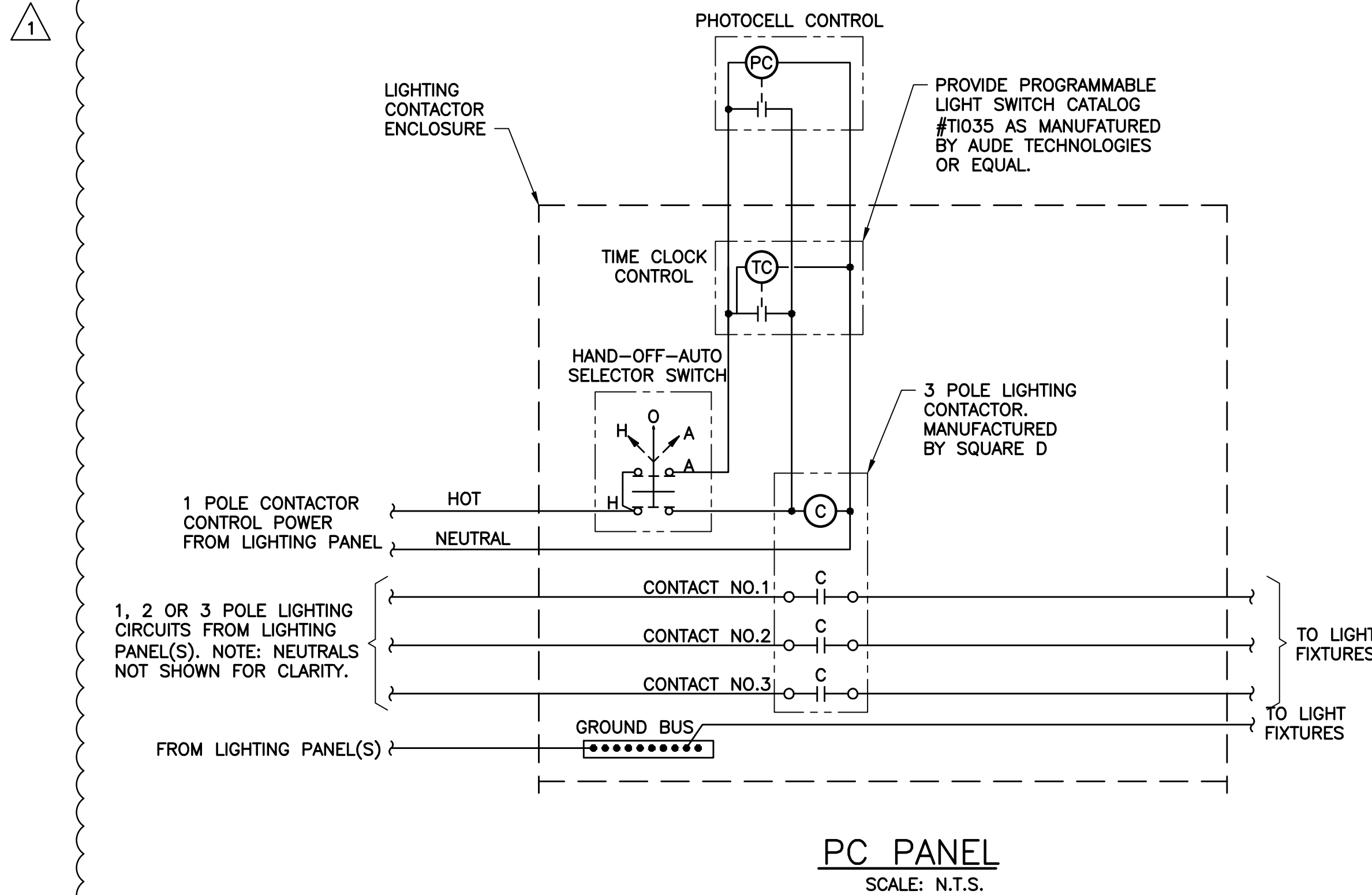
CURIOSITY LEVEL ELEMENT INSTALLATION

SCALE: NOT TO SCALE



HANDHOLE DETAIL

N.T.S.



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ATLAS

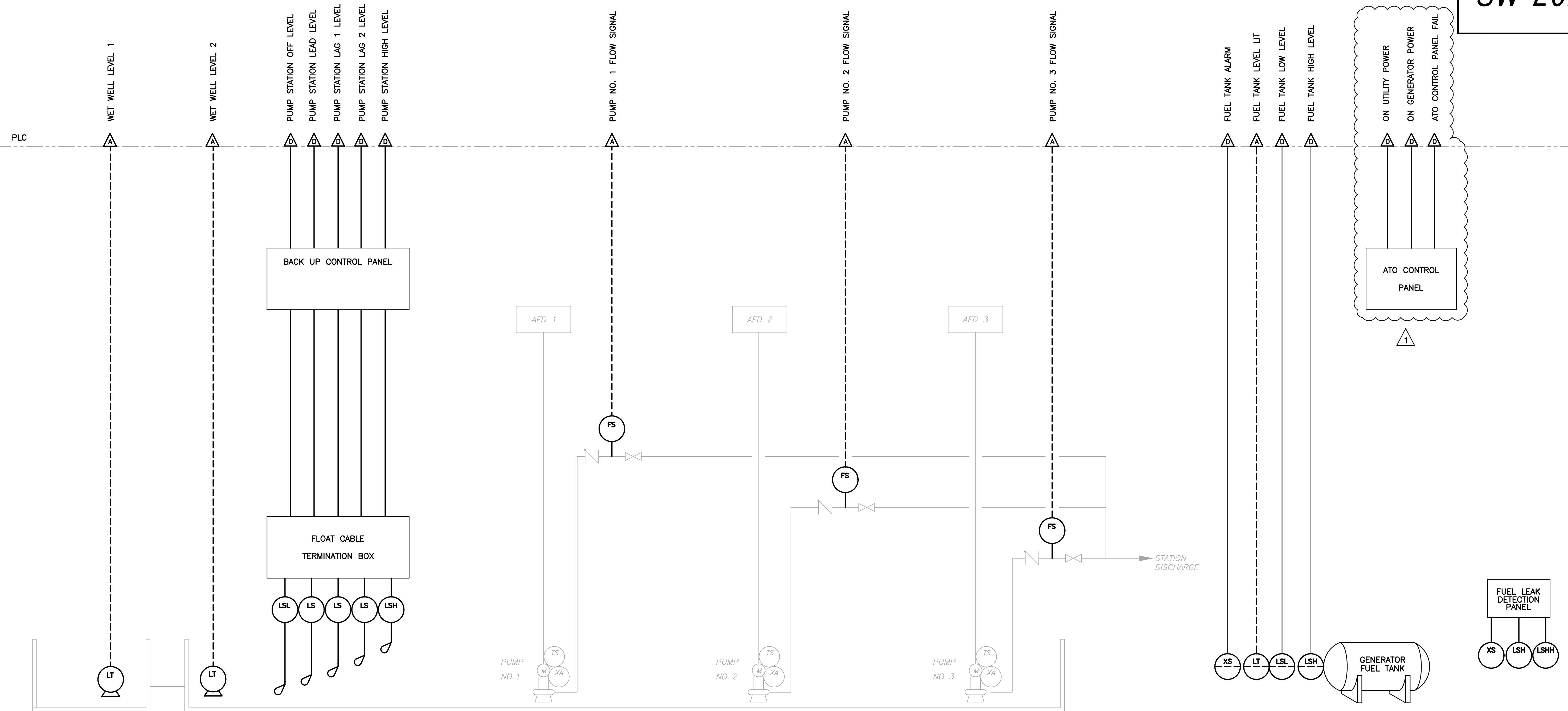
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

ELECTRICAL
DETAILS I

SHEET

EII
OF 27

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PROCESS MONITORING AND CONTROL

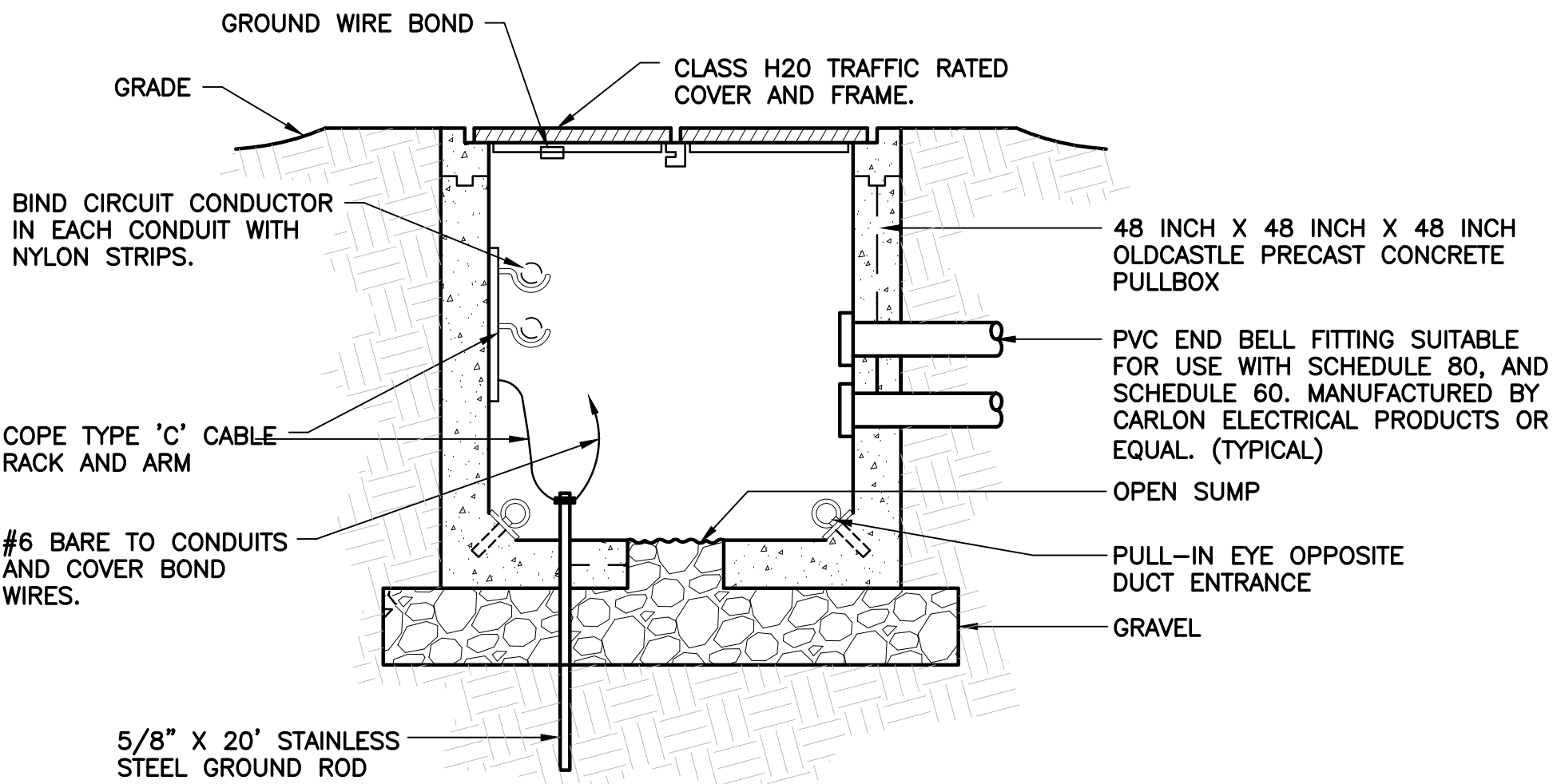
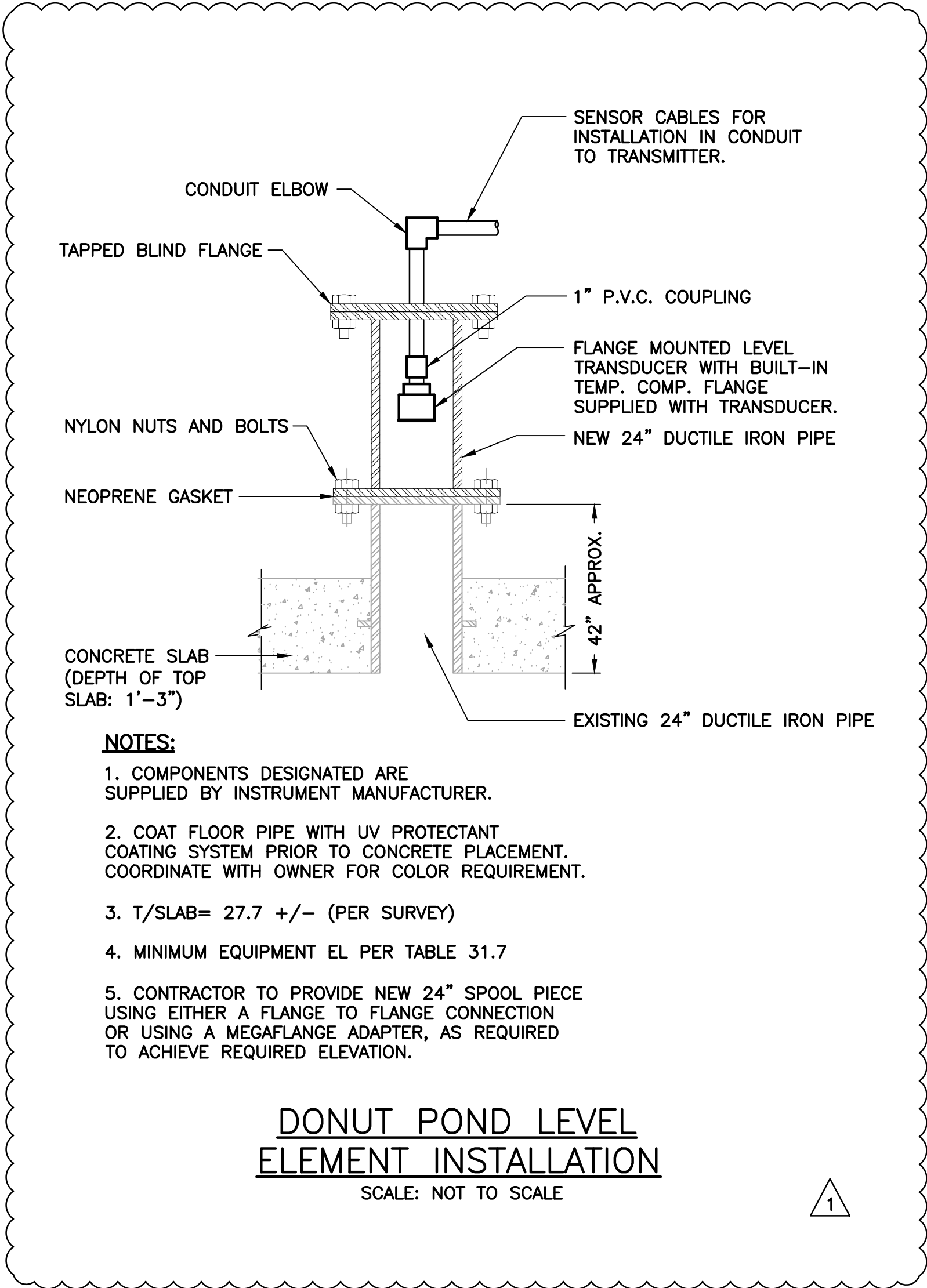
SCALE: N.T.S.

FUEL SYSTEM

SCALE: N.T.S.

Plot Date: Tuesday, September 15, 2026

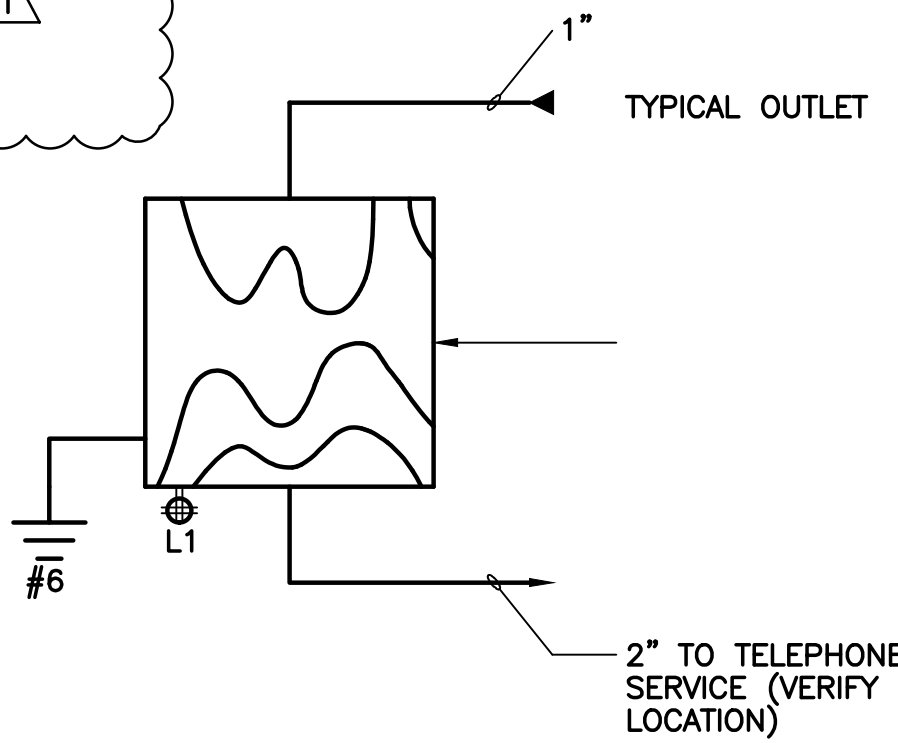
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- NOTES:**
1. ALL WIRES IN PULL BOX TO BE LABELED INDICATING CIRCUIT NUMBERS. SEE SPECIFICATIONS.
 2. DO NOT SPLICE CABLES IN PULL BOXES UNLESS OTHERWISE NOTED.
 3. PATCH CONDUIT ENTRY WINDOW WITH CONCRETE.

HANDHOLE DETAIL

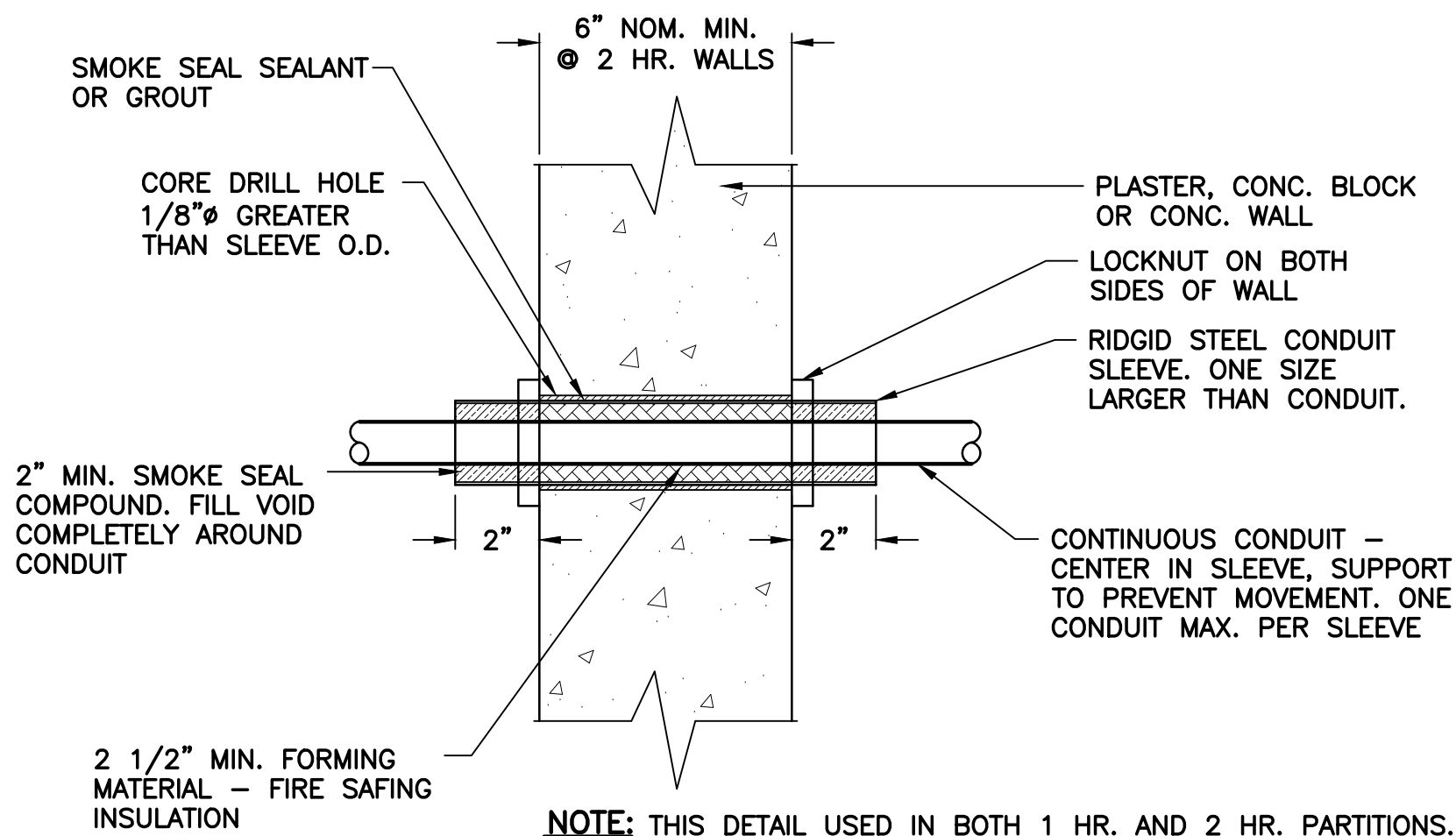
N.T.S.



5

TELEPHONE RISER

N.T.S.



NOTE: THIS DETAIL USED IN BOTH 1 HR. AND 2 HR. PARTITIONS.

CONDUIT SLEEVE DETAIL AT WALL

N.T.S.

Plot Date: Wednesday, September 30, 2026

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1	10/09/2026	REVISED FOR ADDENDUM	4			DRN: SRP		Mobility Department	DETAILS I	E8
2			5			CKD: MJC		Stormwater Engineering Division		OF
3			6			DATE: 4/27/26				17

SECTION 26 36 24
AUTOMATIC THROWOVER CONTROLS

PART 1 - GENERAL

1.01 SCOPE

- A. Furnish and install automatic throwover system controls (“ATO”) to operate the main circuit breakers in the motor control center as shown on the plans.

1.02 CODES AND STANDARDS

The automatic transfer switches and controls shall conform to the requirements of:

- A. NFPA 70 - National Electrical Code
- B. NFPA 99 - Essential Electrical Systems for Health Care Facilities
- C. NFPA 110 - Emergency and Standby Power Systems
- D. IEEE Standard 446 - IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- E. UL 508 Industrial Control Equipment

1.03 ACCEPTABLE INSTALLERS

- A. Automatic Throwover Controls shall be installed, commissioned, and approved by Schneider Electric Engineering Services, LLC.

PART 2 - PRODUCTS

2.01 APPLICATION

- A. The ATO shall electrically operate the main breakers with the intent of maximizing power availability to the facility.
- B. The ATO shall be inherently capable of automatically transferring the facility load between a utility service and a generator source (“Main-Gen”).
- C. When applied to a Main-Gen, the ATO shall be capable of controlling the generator source as described herein, including engine exercisers and fail-safe starting.
- D. The ATO’s transition mode shall either be “delayed transition”, “closed transition” as stated on the plans.
- E. Where delayed transition is specified, the ATO shall be incapable of main breaker closure without ensuring that the other main breaker is open. During its transfer

sequence, a “load disconnect” timer shall delay closure of a main breaker for its programmed duration immediately following the opening of the other main breaker. The load disconnect timer shall be adjustable by authorized users from the front of the control panel door.

- F. Where closed transition is specified, the ATO shall be capable of transferring between live sources without interruption of power being supplied to the load. Additionally, the transfer system shall allow for fast in-phase open transition with a power disruption not exceeding 50ms.
- G. Where overcurrent protection is included on the main breakers or in cases where the main breakers must be manually operated, the automatic throwover controls shall lock itself out anytime that it detects that a main breaker opens without command, or a breaker fails to close upon command. A “System Locked Out” lamp shall illuminate on the door to indicate that the control system is in the locked-out state, and will not attempt to close any breaker until the “reset” button is pressed. When the reset button is pressed, the ATO will attempt to close the breaker that is due to be closed, based on the status of the system within its transfer sequence.
- H. If a main breaker trips under overcurrent or fault, the other main breaker shall be electrically inhibited from closure by the ATO until the tripped breaker is reset.

2.02 MICROPROCESSOR CONTROLLER

- A. The controller's sensing and logic shall be provided by a single built-in microprocessor for maximum reliability, minimum maintenance, and the ability to communicate serially through an optional serial communication module.
- B. A single controller shall provide twelve selectable nominal voltages for maximum application flexibility and minimal spare part requirements. Voltage sensing shall be true RMS type and shall be accurate to $\pm 1\%$ of nominal voltage. Frequency sensing shall be accurate to $\pm 0.2\%$. The panel shall be capable of operating over a temperature range of -20 to +60 degrees C and storage from -55 to +85 degrees C.
- C. The controller shall be connected to the transfer switch by an interconnecting wiring harness. The harness shall include a keyed disconnect plug to enable the controller to be disconnected from the transfer switch for routine maintenance. Sensing and control logic shall be provided on multi-layer printed circuit boards. Interfacing relays shall be industrial grade plug-in type with dust covers. The panel shall be enclosed with a protective cover and be mounted separately from the transfer switch unit for safety and ease of maintenance. The protective cover shall include a built-in pocket for storage of the operator's manuals.
- D. All customer connections shall be wired to a common terminal block to simplify field-wiring connections.
- E. The controller shall meet or exceed the requirements for Electromagnetic

Compatibility (EMC) as follows:

- | | | |
|----|-------------------|--|
| 1. | EN 55011:1991 | Emission standard - Group 1, Class A |
| 2. | EN 50082-2:1995 | Generic immunity standard, from which: |
| 3. | EN 61000-4-2:1995 | Electrostatic discharge (ESD) immunity |
| 4. | ENV 50140:1993 | Radiated Electro-Magnetic field immunity |
| 5. | EN 61000-4-4:1995 | Electrical fast transient (EFT) immunity |
| 6. | EN 61000-4-5:1995 | Surge transient immunity |
| 7. | EN 61000-4-6:1996 | Conducted Radio-Frequency field |

2.03 ENCLOSURE

immunity

- A. The ATO controls shall be furnished in a Type 1 enclosure unless otherwise shown on the plans.
- B. All standard and optional door-mounted switches and pilot lights shall be 16-mm industrial grade type or equivalent for easy viewing & replacement. Door controls shall be provided on a separate removable plate, which can be supplied loose for open type units.

PART 3 - OPERATION

3.01 CONTROLLER DISPLAY AND KEYPAD

- A. A four line, 20 character LCD display and keypad shall be an integral part of the controller for viewing all available data and setting desired operational parameters. Operational parameters shall also be available for viewing and limited control through the serial communications input port. The following parameters shall only be adjustable via DIP switches on the controller:
 - 1. Nominal line voltage and frequency
 - 2. Single or three phase sensing
 - 3. Operating parameter protection
 - 4. Transfer operating mode configuration (Open transition, Closed transition, or Delayed transition)
 - 5. All instructions and controller settings shall be easily accessible, readable and accomplished without the use of codes, calculations, or instruction manuals.

3.02 VOLTAGE, FREQUENCY AND PHASE ROTATION SENSING

- A. Voltage and frequency on both the normal and emergency sources (as noted below) shall be continuously monitored, with the following pickup, dropout, and trip

setting capabilities (values shown as % of nominal unless otherwise specified):

<u>Parameter</u>	<u>Sources</u>	<u>Dropout /</u>	<u>Pickup / Reset</u> 85
Undervoltage	N&E, 3 ϕ	Trip 70 to	to 100%
Overvoltage	N&E, 3 ϕ	98% 102 to	2% below trip 90
Underfrequency	N&E	115% 85 to	to 100%
Overfrequency	N&E	98% 102 to	2% below trip 1%
Voltage unbalance	N&E	110% 5 to	below dropout
		20%	

- B. Repetitive accuracy of all settings shall be within $\pm 0.5\%$ over an operating temperature range of -20°C to 60°C .
- C. Voltage and frequency settings shall be field adjustable in 1% increments either locally with the display and keypad or remotely via serial communications port access.
- D. The controller shall be capable (when activated by the keypad or through the serial port) of sensing the phase rotation of both the normal and emergency sources. The source shall be considered unacceptable if the phase rotation is not the preferred rotation selected (ABC or CBA).
- E. Source status screens shall be provided for both normal & emergency to provide digital readout of voltage on all 3 phases, frequency, and phase rotation.
- F. The controller shall include a user selectable algorithm to prevent repeated transfer cycling to a source on an installation which experiences primary side, single phase failures on a Grounded Wye – Grounded Wye transformer which regenerates voltage when unloaded. The algorithm shall also inhibit retransfer to the normal (utility) source upon detection of a single phasing condition until a dedicated timer expires, the alternate source fails, or the normal source fails completely and is restored during this time delay period. The time delays associated with this feature shall be adjustable by the user through the controller keypad and LCD.

3.03 TIME DELAYS

- A. An adjustable time delay of 0 to 6 seconds shall be provided to override momentary normal source outages and delay all transfer and engine starting signals. Capability shall be provided to extend this time delay to 60 minutes by providing an external 24 VDC power supply.
- B. A time delay shall be provided on transfer to emergency, adjustable from 0 to 60 minutes, for controlled timing of transfer of loads to emergency.
- C. Two time delay modes (which are independently adjustable) shall be provided on re-transfer to normal. One time delay shall be for actual normal power failures and the other for the test mode function. The time delays shall be adjustable from 0 to 60 minutes. Time delay shall be automatically bypassed if the emergency source fails and the normal source is acceptable.

- D. A time delay shall be provided on shut down of engine generator for cool down, adjustable from 0 to 60 minutes.
- E. A time delay activated output signal shall also be provided to drive an external relay(s) for selective load disconnect control. The controller shall have the ability to activate an adjustable 0 to 5 minute time delay in any of the following modes:
 - 1. Prior to transfer only.
 - 2. Prior to and after transfer.
 - 3. Normal to emergency only.
 - 4. Emergency to normal only.
 - 5. Normal to emergency and emergency to normal.
 - 6. All transfer conditions or only when both sources are available.
- F. The controller shall also include the following built-in time delays for optional Closed Transition and Delayed Transition operation:
 - 1. 1 to 5 minute time delay on failure to synchronize normal and emergency sources prior to closed transition transfer.
 - 2. 0.1 to 9.99 second time delay on an extended parallel condition of both power sources during closed transition operation.
 - 3. 0 to 5 minute time delay for the load disconnect position for delayed transition operation.
- G. All time delays shall be adjustable in 1 second increments, except the extended parallel time, which shall be adjustable in .01 second increments.
- H. All time delays shall be adjustable by using the LCD display and keypad or with a remote device connected to the serial communications port.

3.04 ADDITIONAL FEATURES

- A. A three position momentary-type test switch shall be provided for the test /automatic / reset modes. The test position will simulate a normal source failure. The reset position shall bypass the time delays on either transfer to emergency or retransfer to normal.
- B. A SPDT contact, rated 5 amps at 30 VDC, shall be provided for a low-voltage engine start signal. The start signal shall prevent dry cranking of the engine by requiring the generator set to reach proper output, and run for the duration of the cool down setting, regardless of whether the normal source restores before the load is transferred.
- C. Auxiliary contacts, rated 10 amps, 250 VAC shall be provided consisting of one

contact, closed when the ATO is connected to the normal source and one contact closed, when the ATO is connected to the emergency source.

- D. LED indicating lights (16 mm industrial grade, type 12) shall be provided; one to indicate when the ATO is connected to the normal source (green) and one to indicate when the ATO is connected to the emergency source (red).
- E. LED indicating lights (16 mm industrial grade, type 12) shall be provided and energized by controller outputs. The lights shall provide true source availability of the normal and emergency sources, as determined by the voltage sensing trip and reset settings for each source.
- F. The following features shall be built-in to the controller, but capable of being activated through keypad programming or the serial port only when required by the user:
- G. Provide the ability to select “commit/no commit to transfer” to determine whether the load should be transferred to the emergency generator if the normal source restores before the generator is ready to accept the load.
- H. An Inphase monitor shall be provided in the controller. The monitor shall control transfer so that motor load inrush currents do not exceed normal starting currents, and shall not require external control of power sources. The inphase monitor shall be equal to ASCO Feature 27.
- I. The controller shall be capable of accepting a normally open contact that will allow the transfer switch to function in a non-automatic mode using an external control device.
- J. Engine Exerciser - The controller shall provide an internal engine exerciser. The engine exerciser shall allow the user to program up to seven different exercise routines. For each routine, the user shall be able to:
 - 1. Enable or disable the routine.
 - 2. Enable or disable transfer of the load during routine.
 - 3. Set the start time, .
 - a. time of day
 - b. day of week
 - c. week of month (1st, 2nd, 3rd, 4th, alternate or every)
 - 4. Set the duration of the run.
- K. At the end of the specified duration the switch shall transfer the load back to normal and run the generator for the specified cool down period. A 10-year life battery that supplies power to the real time clock in the event of a power loss will maintain all time and date information.
- L. Terminals shall be provided for a remote contact which opens to signal the ATO to

transfer to emergency and for remote contacts which open to inhibit transfer to emergency and/or retransfer to normal. Both of these inhibit signals can be activated through the keypad or serial port.

- M. System Status - The controller LCD display shall include a “System Status” screen which shall be readily accessible from any point in the menu by depressing the “ESC” key a maximum of two times. This screen shall display a clear description of the active operating sequence and switch position. For example,
 - 1. Normal Failed
 - 2. Load on Normal
 - 3. TD Normal to Emerg
 - 4. 2min15s
- MI. Controllers that require multiple screens to determine system status or display “coded” system status messages, which must be explained by references in the operator’s manual, are not permissible.
- MII. Self Diagnostics - The controller shall contain a diagnostic screen for the purpose of detecting system errors. This screen shall provide information on the status input signals to the controller which may be preventing load transfer commands from being completed..
- MIII. Data Logging – The controller shall have the ability to log data and to maintain the last 99 events, even in the event of total power loss. The following events shall be time and date stamped and maintained in a non-volatile memory:
 - 1. Event Logging
 - a. Data and time and reason for transfer normal to emergency.
 - b. Data and time and reason for transfer emergency to normal.
 - c. Data and time and reason for engine start.
 - d. Data and time engine stopped.
 - e. Data and time emergency source available.
 - f. Data and time emergency source not available.
 - 2. Statistical Data
 - a. Total number of transfers.
 - b. Total number of transfers due to source failure.
 - c. Total number of days controller is energized.
 - d. Total number of hours both normal and emergency sources are available.
- MIV. Communications Module – Shall provide remote interface module to support monitoring of vendor’s transfer switch, controller and optional power meter. Module shall provide status, analog parameters, event logs, equipment settings & configurations over embedded webpage and open protocol. Features shall include:

1. Email notifications and SNMP traps of selectable events and alarms may be sent to a mobile device or PC.
2. Modbus TCP/IP, SNMP, HTTP, SMTP open protocols shall be simultaneously supported.
3. Web app interface requiring user credentials to monitor and control the transfer switch supporting modern smart phones, tablets and PC browsers. User will be able to view the dynamic one-line; ATO controls status, alarms, metering, event logging as well as settings.
4. Secure access shall be provided by requiring credentials for a minimum of 3 user privilege levels to the web app, monitor (view only), control (view and control) and administrator (view, control and change settings). 128-Bit AES encryption standard shall be supported for all means of connectivity.
5. Shall allow for the initiating of transfers, retransfers, bypassing of active timers and the activating/deactivating of engine start signal shall be available over the embedded webpage and to the transfer switch vendor's monitoring equipment.
6. An event log displaying a minimum of three hundred (300) events shall be viewable and printable from the embedded webpages and accessible from supported open protocols.
7. Four (4) 100 Mbps Ethernet copper RJ-45 ports, five (2) serial ports, Termination dip-switches and LEDs for diagnostics.
8. DIN rail mountable.
This option shall be equivalent to ASCO accessory 72EE2

- R. External DC Power Supply – An optional provision shall be available to connect an external 24 VDC power supply to allow the LCD and the door mounted control indicators to remain functional when both power sources are dead. This option shall be equivalent to ASCO accessory 1G.

3.05 SERVICE REPRESENTATION

- A. The ATO control panel shall be produced by a corporation that maintains a national service organization of company-employed personnel located throughout the contiguous United States. The service center's personnel must be factory trained and must be on call 24 hours a day, 365 days a year.
- B. The ATO installer shall maintain records of each ATO, by serial number, for a minimum of 20 years.
