# **ADDENDUM #4**

#### **Athletic Facilities**

New Castle Community School Corporation

Loftus Engineering, Inc. LEI Project No. 2023-039

April 16, 2024

The following changes and clarifications shall be incorporated into the Contract Documents for the above-referenced project.

### **CONTRACTOR QUESTIONS**

- 1. Question: On sheet E-601 electrical one line diagram shows a 200amp feed on the primary side of T 1. Is this your intent?

  Anguer: Year that is the intent to allow for potentially large insuch currents.
  - Answer: Yes, that is the intent to allow for potentially large inrush currents.
- 2. Question: On sheet ESI0I notes 5-8 state the poles are furnished by owner but installed by contractor. What is the responsibility (materials and labor) of the owner provided lighting pole supplier and what is the responsibility (materials and labor) of the electrical contractor?
  - Answer: Under Alternate Bid #1, there will be a separate contract to provide new light poles and associated controls, conduit, conductors and grounding to serve the practice field. Under Alternate Bid #1, this Contractor is responsible for furnishing and installing underground conduit from the new athletic building to the locaiton of the first new practice field pole only. Refer to revised Drawing ES101 being reissued with this addendum.
- 3. Question: Does the owner have an preferred datacom vendor and if so, who is it? Answer: New Era Technology, 3209 Union Pike, Richmond, IN 47374.
- 4. Question: On sheet E-801 general note 7 shows a cash allowance and states to go to section 265100 paragraph 1.7. That section talks about warranty. Please advise. Answer: Cash allowances for light fixtures is not applicable to this project. Delete General Note #7 under "Luminaire (Light Fixture) Schedule" on Sheet E-801.

### **SPECIFICATIONS**

- 1. SECTION 26 33 23 SMALL INVERTER SYSTEMS:
  - a. Under Paragraph 2.1 B.1., change DualLite model number to "LG" from "LSN.
- 2. SECTION 27 51 23 SCHOOL INTERCOMMUNICATIONS SYSTEM:
  - a. Add Paragraph 2.13 and subparagraphs to read as follows:

- 2.13 RECESSED HORN TYPE LOUDSPEAKERS (Added by Addendum 03)
  - A. Loudspeaker Construction: 4-1/4" square, die-cast, gasketed and vandal resistant enclosure with weather resistant louvered loudspeaker driver.
  - B. Mounting: Recessed 4" square by 2" deep standard electrical box.
  - C. Minimum Axial Sensitivity: 90 dB at one meter, with 1-W input.
  - D. Frequency Response: 600 Hz to 5.5 kHz (+/- 5dB).
  - E. Power Handling: Minimum 15 Watts.
  - F. Dispersion: 190-degrees by 190-degrees at -6dB.
  - G. Line Transformer: Primary selectable between 25 V with taps for  $\frac{1}{4}$ ,  $\frac{1}{2}$ , 1, 2, 4, 8 and 15 Watts at 25 V. Insertion loss not greater than 1.5 dB with frequency response of 600 Hz to 5.5 kHz.
  - H. Basis of Design: Atlas Model VTF-22UC.

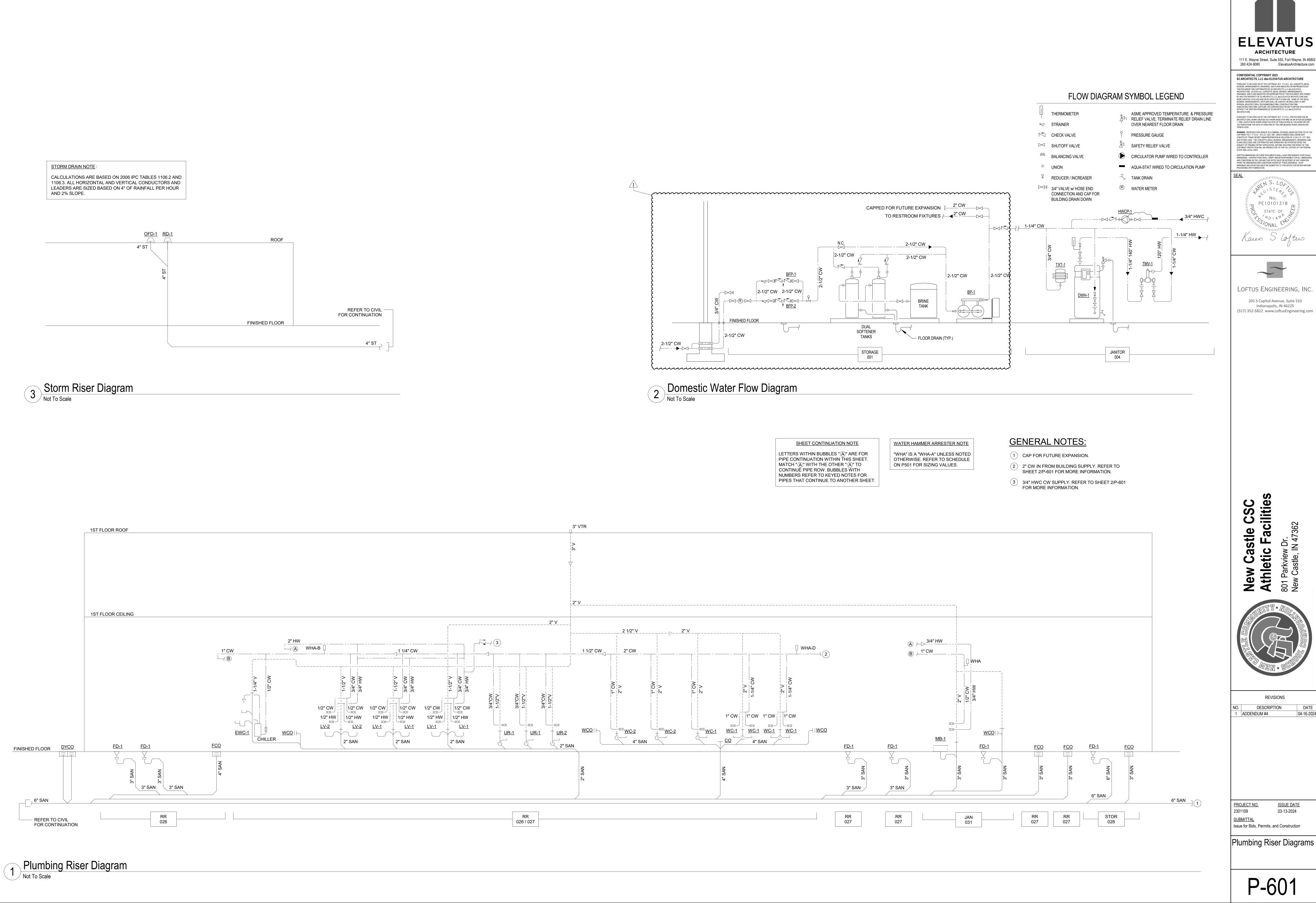
### **DRAWINGS**

- 3. P-601 PLUMBING RISER DIAGRAMS:
  - a. Revise the DOMESTIC WATER FLOW DIAGRAM to update domestic water pipe sizes, as indicated on the attached drawing.
- 4. P-603 PLUMBING SCHEDULES:
  - a. Revise BACKFLOW PREVENTER SCHEDULE to add BFP-2.
- 5. ES101 Electrical Site Plan
  - a. Revise Plan Notes to reflect revised scope of work under Alternate Bid #1.
  - b. Add Plan Notes #15 and #16 to reflect removal scope of work under Alternate Bid #2.
- 6. E-801 Light Fixture Schedule:
  - a. On the "Luminaire (Light Fixture) Schedule", delete General Note #7.

## **ATTACHMENTS**

P-601 – PLUMBING RISER DIAGRAMS: P-603 – PLUMBING SCHEDULES: ES101 – ELECTRICAL SITE PLAN

## **END - ADDENDUM #4**



**ELEVATUS** ARCHITECTURE 111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802 260 424-9080 ElevatusArchitecture.com

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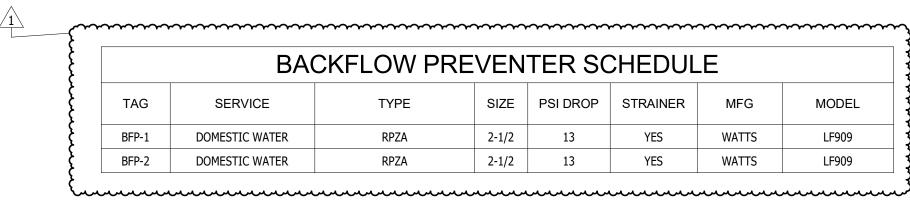
Indianapolis, IN 46225 (317) 352-5822 www.LoftusEngineering.com



04-16-2024

<u>ISSUE DATE</u> 03-13-2024

DOMESTIC WATER BOOSTER PUMP SCHEDULE MOTOR DATA CONTROL PANEL NUMBER OF GPM OF TAG LOCATION MODEL REMARKS BOOST SET TDH SUCTION PUMPS EACH PUMP RPM FLA HP VOLTS PH HZ FLA MOCP (PSI) (PSI) (PSI) (FT) PRODIGY DUPLEX BP-1 STORAGE 001 37.79 67.79 87.29 3,450 10.2 3 460 3 60 10.2 30 QUANTUMFLO 1-11 QES\_331-3-2-6.30 1. NET BOOST PRESSURE IS CALCULATED BY SYSTEM SET PRESSURE MINUS SUCTION PRESSURE LESS SYSTEM LOSSES OF 5 PSI 2. SYSTEM SUBMITTALS SHALL INCLUDE CERTIFICATE NUMBER FOR NSF61 CERTIFICATION, UL508A AND QCZJ 3RD PARTY COMPLIANCE. 3. SYSTEM CONTROLS MUST COMPLY WITH AND PROVIDE FOR EITHER CONTROL LOGIC OR REMOTE SENSOR IN ACCORDANCE WITH ANSI/ASHRAE/IES STANDARD 90.1 ENERGY STANDARD 4. PROVIDE 5-YEAR WARRANTY ON COMPLETE SYSTEM AND INCLUDE WARRANTY CERTIFICATE WITH DETAILS IN SUBMITTALS 5. SYSTEM SHALL BE PRE-SET TO SYSTEM SITE CONDITIONS BY SIMULATING SUCTION PRESSURE. HYDROSTATIC-ONLY TESTING IS NOT ACCEPTABLE. 6. THE INDUSTRIAL CONTROLLER SHALL BE IN COMPLIANCE WITH CURRENT NEC, SECTION 409.110 HAVING A MAXIMUM 100K AVAILABLE FAULT CURRENT. 7. SCCR RATINGS MUST BE INCLUSIVE OF ALL COMPONENTS WITHIN THE ENCLOSURE WITHOUT THE NEED TO PROVIDE ADDITIONAL UPSTREAM PROTECTION. 8. EQUAL SYSTEMS MUST SHOW MATHEMATICAL ANALYSIS PROVING THAT THE ALTERNATE SUPPLIER MEETS OR EXCEEDS THE KW CAPACITY LISTED. 9. PROVIDE THE FOLLOWING OPTIONS: MONITORING PROTOCOL: MODBUS RTU 10. REPRESENTATIVE: BBC PUMP AND EQUIPMENT COMPANY, INC. PHONE: 317-636-1111 11. CALCULATIONS BASED ON FINAL EXPANDED BUILDING WITH TWO LOCKER ROOMS IN ADJACENT SPACE.



			C	SAS WA	TER HE	ATER	SCHE	EDUL	_E				
		TANK CAD	RECOVERY	INDLIT	PRESSURE (IN. W.C.)		ELECTRICAL DATA			DRY SHIP			
TAG	LOCATION	TANK CAP. 40° TO 140 (GPH)	40° TO 140° (GPH)	INPUT (CFH)	MIN. INLET FLOW	MAX. STATIC	VOLTS	PH	HZ	AMPS	a	MFG.	MODEL
GWH-1	JANITOR 004	100	233	199,900	3.5	14.0	120	1	60	5	750	PVI CONQUEST	20 L 100A-GCL
-	-	-	-	-	-	-	-	-	-	-		-	-
NOTES:									•				

 3/4" NPT GAS CONNECTION. 2. MINIMUM VENT DIAMETER OF 3" AT 100 EQ. FT. (5 ELBOWS MAXIMUM).

3. 3" PVC OR GALVANIZED INLET COMBUSTION AIR VENT UP TO 100 EQ. FT.

TAG	LOCATION	INLET	FLOW (GPM) @	FLOW (GPM) @	ELECTRICAL DATA				MFG.	MODEL
	LOCATION	CONNECTION	15 PSI DROP	25 PSI DROP	VOLTS	PH	HZ	AMPS	IVIFG.	MODEL
DWS-1	MECHANICAL 114	3"	98	126	24	1	60	-	AQUA SYSTEMS	GEN II 3" SERIES 1000

2. BRINE TANK, 24" x 50". 250,000 GRAINS CAPACITY.

3. 10.0 CU. FT. RESIN TANK.

4. WATER METER-CONTROLLED, ON-DEMAND REGENERATION WITH 13 GPM BACKWASH.

	THERMAL EXPANSION TANK SCHEDULE										
TAG	SERVICE	TANK CAP. (GAL)	ACCEPTANCE CAP (GAL)	PRECHARGE PRESSURE (PSI)	MAX. PRESSURE (PSI)	TANK DIA. (IN)	TANK HT. (IN)	CONNECTION SIZE (IN)	SHIPPING WT. (LBS)	MFG.	MODEL
TXT-1	DHW	8	5	55	150	14	22.5	1	45	TACO	CX30-125

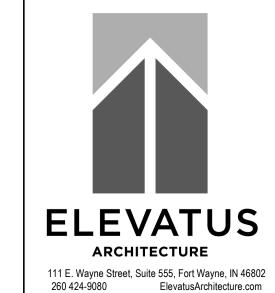
TAG		FLOW CAPACITY (GPM)		PRESSURE	CO	ONNECTION SI	ZES		MODEL	NOTES
	SERVICE			DROP AT MAX	HW INLET	CW INLET	TEMPERED	MFG.		
		MAX	MIN	FLOW (PSI)	SIZE (IN)	SIZE (IN)	OUTLET (IN)			
TMV-1	DOMESTIC HOT WATER	36	2	24	3/4	3/4	1	LAWLER	801	1, 2
TES:										

	НС	T W	ATEF	R CIRC	CULA	TING	PUI	MP S	CHE	DULE	
TAG	SERVICE	FLOW (GPM)	TDH (FT)	FLANGE SIZE (IN)	VOLTS PH HZ AMPS HP			MFG.	MODEL		
HWCP-1	DHW RECIRC	2	6.4	3/4	120	1	60	0.54	-	TACO	ECM 006e3

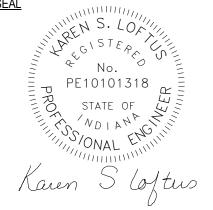
PLUME ROUGH				
DECODIDATION	R	OUGH-IN C	ONNECTION	IS
DESCRIPTION	HW	CW	WASTE	VENT
WATER CLOSET (TANK)	-	1/2"	3"	2"
WATER CLOSET (VALVE)	-	1"	3"	2"
URINAL	-	3/4"	2"	1-1/2"
LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"
SINK	1/2"	1/2"	1-1/2"	1-1/2"
MOP BASIN	3/4"	3/4"	3"	1-1/2"
BATHTUB/SHOWER	1/2"	1/2"	2"	1-1/2"
CLOTHES WASHER ROUGH-IN	1/2"	1/2"	2"	1-1/2"
ELECTRIC WATER COOLER	-	1/2"	1-1/2"	1-1/2"
WALL HYDRANT/HOSE BIBB	-	3/4"	-	-
ICE MAKER ROUGH-IN	-	3/8"	-	-

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WATER HAMMER ARRESTER SCHEDULE										
TYPE	I.P.S.	FIXTURE UNIT RATING	SIOUX CHIEF	WATTS	ZURN					
WHA-A	3/4"	1-11	652-A	15M2-A	100					
WHA-B	1"	12-32	653-B	15M2-B	200					
WHA-C	1"	33-60	654-C	15M2-C	300					
WHA-D	1"	61-113	655-D	15M2-D	400					
WHA-E	1"	114-154	656-E	15M2-E	500					
WHA-F	1"	155-330	657-F	15M2-F	600					
NOTE:	,									
1. PRO\	/IDE SHUT-OF	F VALVE WITH WATER	R HAMMER ARRE	STER.						
2. P.D	I. CERTIFIED									



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New Castle CSC Athletic Facilities

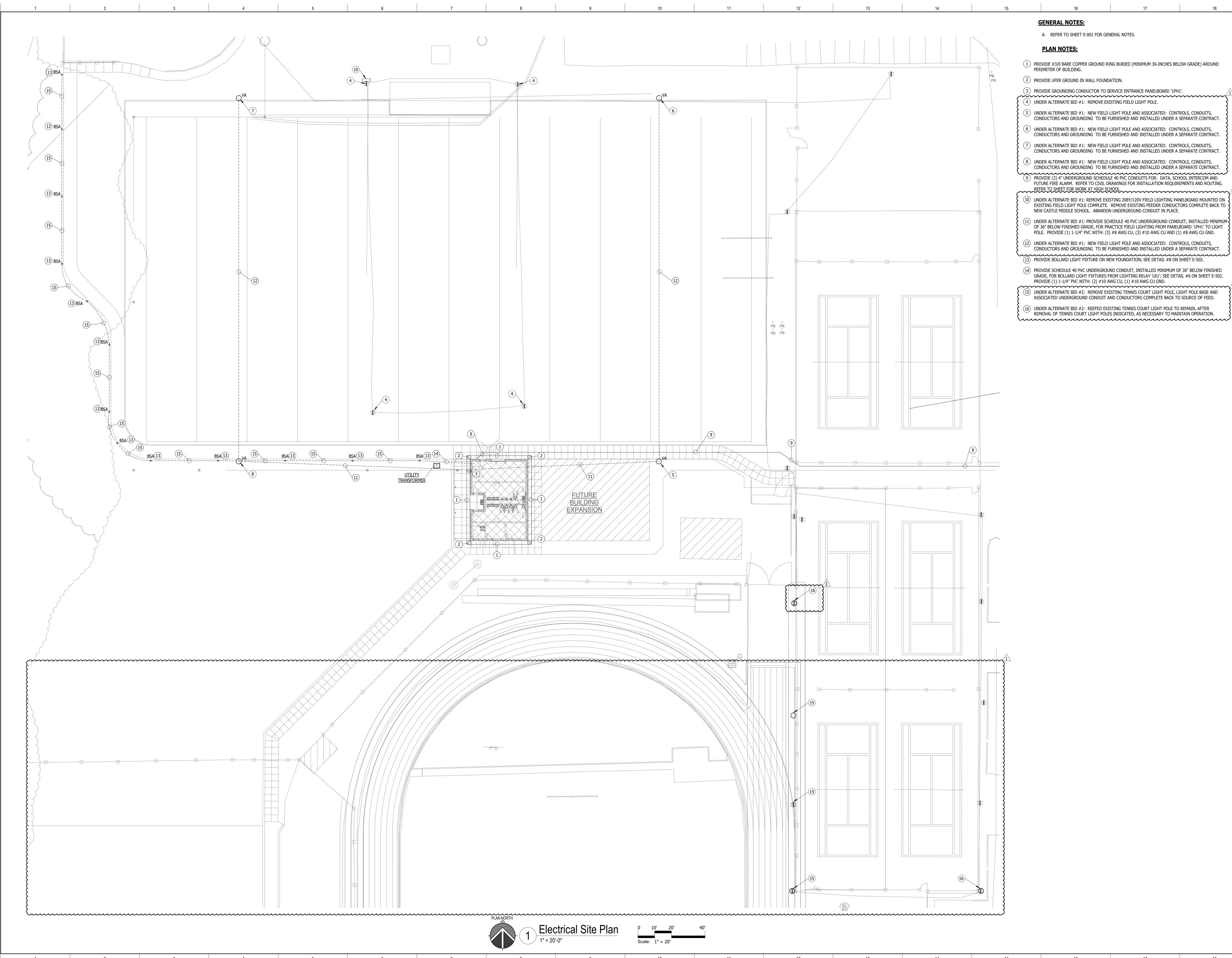


REVISIONS DATE 04-16-2024 DESCRIPTION ADDENDUM #4

<u>ISSUE DATE</u> 03-13-2024 SUBMITTAL

Issue for Bids, Permits, and Construction

Plumbing Schedules



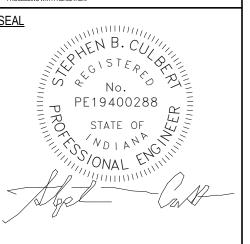
A. REFER TO SHEET E-001 FOR GENERAL NOTES.

- 1) PROVIDE #3/0 BARE COPPER GROUND RING BURIED (MINIMUM 36-INCHES BELOW GRADE) AROUND PERIMETER OF BUILDING.
- 2 PROVIDE UFER GROUND IN WALL FOUNDATION.
- (3) PROVIDE GROUNDING CONDUCTOR TO SERVICE ENTRANCE PANELBOARD '1PH1'. 4) UNDER ALTERNATE BID #1: REMOVE EXISTING FIELD LIGHT POLE.
- (5) UNDER ALTERNATE BID #1: NEW FIELD LIGHT POLE AND ASSOCIATED: CONTROLS, CONDUITS, CONDUCTORS AND GROUNDING TO BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT.
- (6) UNDER ALTERNATE BID #1: NEW FIELD LIGHT POLE AND ASSOCIATED: CONTROLS, CONDUITS, CONDUCTORS AND GROUNDING TO BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT.
- 7) UNDER ALTERNATE BID #1: NEW FIELD LIGHT POLE AND ASSOCIATED: CONTROLS, CONDUITS,
- (8) UNDER ALTERNATE BID #1: NEW FIELD LIGHT POLE AND ASSOCIATED: CONTROLS, CONDUITS,
- CONDUCTORS AND GROUNDING TO BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT.
- (9) PROVIDE (2) 4" UNDERGROUND SCHEDULE 40 PVC CONDUITS FOR: DATA, SCHOOL INTERCOM AND FUTURE FIRE ALARM. REFER TO CIVIL DRAWINGS FOR INSTALLATION REQUIREMENTS AND ROUTING. REFER TO SHEET FOR WORK AT HIGH SCHOOL.  $\sqrt{1}$
- (10) UNDER ALTERNATE BID #1: REMOVE EXISTING 208Y/120V FIELD LIGHTING PANELBOARD MOUNTED ON EXISTING FIELD LIGHT POLE COMPLETE. REMOVE EXISTING FEEDER CONDUCTORS COMPLETE BACK TO NEW CASTLE MIDDLE SCHOOL. ABANDON UNDERGROUND CONDUIT IN PLACE.
- 11) UNDER ALTERNATE BID #1: PROVIDE SCHEDULE 40 PVC UNDERGROUND CONDUIT, INSTALLED MINIMUM OF 36" BELOW FINISHED GRADE, FOR PRACTICE FIELD LIGHTING FROM PANELBOARD '1PH1' TO LIGHT POLE. PROVIDE (1) 1-1/4" PVC WITH: (3) #8 AWG CU, (3) #10 AWG CU AND (1) #8 AWG CU GND.
- CONDUCTORS AND GROUNDING TO BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT. to an anni an
- PROVIDE BOLLARD LIGHT FIXTURE ON NEW FOUNDATION; SEE DETAIL #8 ON SHEET E-502. (14) PROVIDE SCHEDULE 40 PVC UNDERGROUND CONDUIT, INSTALLED MINIMUM OF 36" BELOW FINISHED
- GRADE, FOR BOLLARD LIGHT FIXTURES FROM LIGHTING RELAY 'LR1'; SEE DETAIL #6 ON SHEET E-502. PROVIDE (1) 1-1/4" PVC WITH: (2) #10 AWG CU, (1) #10 AWG CU GND.
- 15) UNDER ALTERNATE BID #2: REMOVE EXISTING TENNIS COURT LIGHT POLE, LIGHT POLE BASE AND ASSOCIATED UNDERGROUND CONDUIT AND CONDUCTORS COMPLETE BACK TO SOURCE OF FEED.
- (16) UNDER ALTERNATE BID #2: REEFED EXISTING TENNIS COURT LIGHT POLE TO REMAIN, AFTER REMOVAL OF TENNIS COURT LIGHT POLES INDICATED, AS NECESSARY TO MAINTAIN OPERATION. \.....



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201 S Capitol Avenue, Suite 310 Indianapolis, IN 46225 (317) 352-5822 www.LoftusEngineering.com



REVISIONS

Issue for Bids, Permits, and Construction

Electrical Site Plan

ES101