

DATE: January 24, 2025

DEPARTMENT OF GENERAL SERVICES
BUREAU OF CAPITAL PROJECT DESIGN MANAGEMENT
1800 HERR STREET
HARRISBURG, PENNSYLVANIA

ADDENDUM NO. 9

on

PROJECT NO. DGS C-0503-0027 PHASE 001

PROJECT TITLE - Danville State Hospital - Replace Steam Generation Equipment

PROFESSIONAL:

CJL Engineering

232 Horner St

Johnstown, Pennsylvania, 15902

If you submitted a bid prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) prior to the bid opening date and time.

ADMINISTRATIVE CHANGES – 4 ELECTRICAL CONSTRUCTION CONTRACT

Item 1 - Drawing E-7, Riser Diagram – New (Base Bid 2) breaker and wire/conduit feeder sizing has been updated from 100A to 150A to match fused disconnect ratings of Temp Boiler Disconnect on sheet E-4. Drawing E-8, Switchboard: Substation Switchboard Schedule breaker frame and trip rating have been updated from 100A to 150A (trip rating) and 125A to 225A (frame size) to match fused disconnect ratings of Temp Boiler Disconnect on sheet E-4.

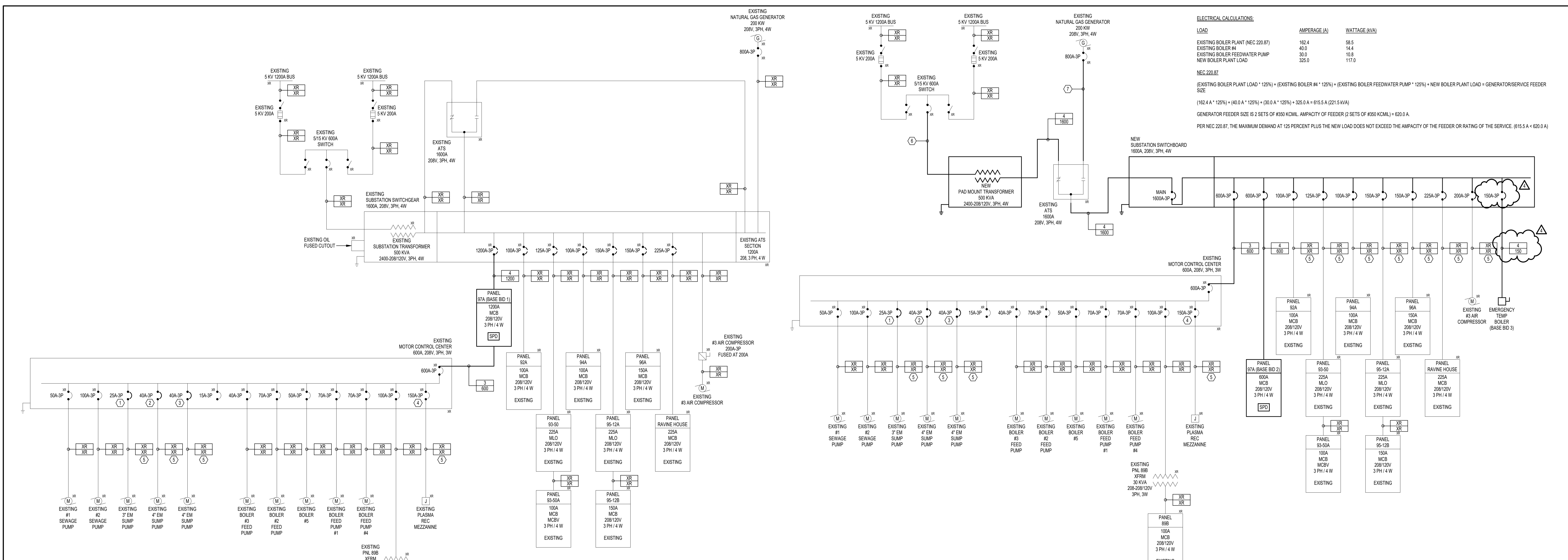
SPECIFICATION CHANGES – ALL CONTRACTS

Item 1 - N/A

DRAWING CHANGES – .4 ELECTRICAL CONSTRUCTION CONTRACT

Item 1 - E-7

Item 2 - E-8

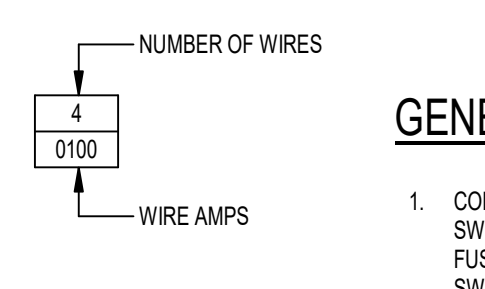


1 RISER DIAGRAM - NEW (BASE BID 1)
 E-7 1/8" = 1'-0"

BRANCH CIRCUIT & FEEDER SCHEDULE - COPPER CONDUCTORS

SERVICE OCP RATING (AMPS)	TYPE 2 (1 PHASE-3W)	TYPE 3 (3 PHASE-3W)	TYPE 4 (3 PHASE-4W)
20	2 #12, 1 #12 GND - 3/4"	3 #12, 1 #12 GND - 3/4"	4 #12, 1 #12 GND - 3/4"
25	2 #10, 1 #10 GND - 3/4"	3 #10, 1 #10 GND - 3/4"	4 #10, 1 #10 GND - 3/4"
30	2 #10, 1 #10 GND - 3/4"	3 #10, 1 #10 GND - 3/4"	4 #10, 1 #10 GND - 3/4"
35	2 #8, 1 #10 GND - 3/4"	3 #8, 1 #10 GND - 3/4"	4 #8, 1 #10 GND - 1"
40	2 #8, 1 #10 GND - 3/4"	3 #8, 1 #10 GND - 3/4"	4 #8, 1 #10 GND - 1"
45	2 #8, 1 #10 GND - 3/4"	3 #8, 1 #10 GND - 1"	4 #8, 1 #10 GND - 1"
50	2 #8, 1 #10 GND - 3/4"	3 #8, 1 #10 GND - 1"	4 #8, 1 #10 GND - 1"
60	2 #4, 1 #10 GND - 3/4"	3 #4, 1 #10 GND - 1"	4 #4, 1 #10 GND - 1 1/4"
70	2 #4, 1 #8 GND - 1"	3 #4, 1 #8 GND - 1"	4 #4, 1 #8 GND - 1 1/4"
80	2 #3, 1 #8 GND - 1"	3 #3, 1 #8 GND - 1 1/4"	4 #3, 1 #8 GND - 1 1/4"
90	2 #2, 1 #8 GND - 1 1/4"	3 #2, 1 #8 GND - 1 1/4"	4 #2, 1 #8 GND - 1 1/2"
100	2 #1, 1 #8 GND - 1 1/4"	3 #1, 1 #8 GND - 1 1/4"	4 #1, 1 #8 GND - 1 1/2"
110	2 #1, 1 #8 GND - 1 1/4"	3 #1, 1 #8 GND - 1 1/4"	4 #1, 1 #8 GND - 1 1/2"
125	2 #1, 1 #8 GND - 1 1/4"	3 #1, 1 #8 GND - 1 1/4"	4 #1, 1 #8 GND - 1 1/2"
150	2 #10, 1 #8 GND - 1 1/4"	3 #10, 1 #8 GND - 1 1/2"	4 #10, 1 #8 GND - 2"
175	2 #8, 1 #8 GND - 1 1/2"	3 #8, 1 #8 GND - 2"	4 #8, 1 #8 GND - 2"
200	2 #8, 1 #8 GND - 1 1/2"	3 #8, 1 #8 GND - 2"	4 #8, 1 #8 GND - 2"
225	2 #4, 1 #4 GND - 2"	3 #4, 1 #4 GND - 2"	4 #4, 1 #4 GND - 2 1/2"
250	2 #250 KCMIL, 1 #4 GND - 2"	2 #250 KCMIL, 1 #4 GND - 2 1/2"	4 #250 KCMIL, 1 #4 GND - 2 1/2"
300	2 #350 KCMIL, 1 #4 GND - 2 1/2"	3 #350 KCMIL, 1 #4 GND - 3"	4 #350 KCMIL, 1 #4 GND - 3"
350	2 #500 KCMIL, 1 #3 GND - 3"	3 #500 KCMIL, 1 #3 GND - 3 1/2"	4 #500 KCMIL, 1 #3 GND - 3 1/2"
400	2 #600 KCMIL, 1 #3 GND - 3"	3 #600 KCMIL, 1 #3 GND - 3"	4 #600 KCMIL, 1 #3 GND - 4"
450	2 SETS EACH: 2 #400, 1 #2 GND - 2"	2 SETS EACH: 3 #400, 1 #2 GND - 2"	2 SETS EACH: 4 #400, 1 #2 GND - 2 1/2"
500	2 SETS EACH: 2 #250 KCMIL, 1 #2 GND - 2"	2 SETS EACH: 3 #250 KCMIL, 1 #2 GND - 2 1/2"	2 SETS EACH: 4 #250 KCMIL, 1 #2 GND - 2 1/2"
600	2 SETS EACH: 2 #350 KCMIL, 1 #1 GND - 3"	2 SETS EACH: 3 #350 KCMIL, 1 #1 GND - 3"	2 SETS EACH: 4 #350 KCMIL, 1 #1 GND - 3 1/2"
700	2 SETS EACH: 2 #500 KCMIL, 1 #1 GND - 3"	2 SETS EACH: 3 #500 KCMIL, 1 #1 GND - 3"	2 SETS EACH: 4 #500 KCMIL, 1 #1 GND - 3 1/2"
800	2 SETS EACH: 2 #600 KCMIL, 1 #1 GND - 3"	2 SETS EACH: 3 #600 KCMIL, 1 #1 GND - 3 1/2"	2 SETS EACH: 4 #600 KCMIL, 1 #1 GND - 4"
1000	3 SETS EACH: 2 #500 KCMIL, 1 #2 GND - 3"	3 SETS EACH: 3 #500 KCMIL, 1 #2 GND - 3"	3 SETS EACH: 4 #500 KCMIL, 1 #2 GND - 3 1/2"
1200	3 SETS EACH: 2 #600 KCMIL, 1 #3 GND - 3"	3 SETS EACH: 3 #600 KCMIL, 1 #3 GND - 3 1/2"	3 SETS EACH: 4 #600 KCMIL, 1 #3 GND - 4"
1600	4 SETS EACH: 2 #600 KCMIL, 1 #4 GND - 3"	4 SETS EACH: 3 #600 KCMIL, 1 #4 GND - 3 1/2"	4 SETS EACH: 4 #600 KCMIL, 1 #4 GND - 4"
2000	5 SETS EACH: 2 #600 KCMIL, 1 #5 GND - 3"	5 SETS EACH: 3 #600 KCMIL, 1 #5 GND - 3 1/2"	5 SETS EACH: 4 #600 KCMIL, 1 #5 GND - 4"
2500	6 SETS EACH: 2 #600 KCMIL, 1 #5 GND - 3"	6 SETS EACH: 3 #600 KCMIL, 1 #5 GND - 3 1/2"	6 SETS EACH: 4 #600 KCMIL, 1 #5 GND - 4"
3000	8 SETS EACH: 2 #600 KCMIL, 1 #5 GND - 3"	8 SETS EACH: 3 #600 KCMIL, 1 #5 GND - 3 1/2"	8 SETS EACH: 4 #600 KCMIL, 1 #5 GND - 4"
3500	9 SETS EACH: 2 #600 KCMIL, 1 #3 GND - 3"	9 SETS EACH: 3 #600 KCMIL, 1 #3 GND - 3 1/2"	9 SETS EACH: 4 #600 KCMIL, 1 #3 GND - 4"
4000	10 SETS EACH: 2 #600 KCMIL, 1 #500 KCMIL GND - 3"	10 SETS EACH: 3 #600 KCMIL, 1 #500 KCMIL GND - 3 1/2"	10 SETS EACH: 4 #600 KCMIL, 1 #500 KCMIL GND - 4"

FEEDER TAG KEY



2 RISER DIAGRAM - NEW (BASE BID 2)
 E-7 NO SCALE

GENERAL NOTES

- CONFIRM ALL EXISTING FEEDER SIZES IN EXISTING SUBSTATION SWITCHBOARD. MATCH NEW BREAKER SIZES TO EXISTING FEEDER SIZES PRIOR TO SUBMISSION OF SUBSTATION SWITCHBOARD SUBMITTAL.
- DISCONNECT AND REMOVE EXISTING 15A-3P BREAKER. REPLACE EXISTING 15A-3P BREAKER WITH A NEW 25A-3P BREAKER. CONNECT EXISTING 3" EM SUMP PUMP TO NEW 25A-3P BREAKER.
- DISCONNECT AND REMOVE EXISTING 50A-3P BREAKER. REPLACE EXISTING 50A-3P BREAKER WITH A NEW 40A-3P BREAKER. CONNECT EXISTING 4" EM SUMP PUMP TO NEW 40A-3P BREAKER.
- CONNECT EXISTING PLASMA MEZZANINE REC TO EXISTING 15A-3P BREAKER.
- PROVIDE CONDUCTOR AND CONDUIT EXTENSIONS TO EXTEND EXISTING CIRCUIT TO NEW CIRCUIT BREAKER LOCATION. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES. PROVIDE CORE DRILLING OF EXISTING FLOOR TO STUB CONDUITS INTO EXISTING MOTOR CONTROL CENTER OR NEW SUBSTATION SWITCHBOARD.
- PROVIDE CONDUIT AND CONDUCTOR EXTENSIONS FROM EXISTING GSW SWITCH TO NEW EXTERIOR SUBSTATION TRANSFORMER. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES. PROVIDE DUCTBANK AS INDICATED ON DUCTBANK DETAIL.
- PROVIDE CONDUIT AND CONDUCTOR EXTENSIONS FROM EXISTING GENERATOR TO EXISTING AUTOMATIC TRANSFER SWITCH. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES.

NUMBERED NOTES

- DISCONNECT AND REMOVE EXISTING 15A-3P BREAKER. REPLACE EXISTING 15A-3P BREAKER WITH A NEW 25A-3P BREAKER. CONNECT EXISTING 3" EM SUMP PUMP TO NEW 25A-3P BREAKER.
- DISCONNECT AND REMOVE EXISTING 50A-3P BREAKER. REPLACE EXISTING 50A-3P BREAKER WITH A NEW 40A-3P BREAKER. CONNECT EXISTING 4" EM SUMP PUMP TO NEW 40A-3P BREAKER.
- PROVIDE NEW 40A-3P BREAKER IN EXISTING SPACE. CONNECT EXISTING 4" EM SUMP PUMP TO NEW 40A-3P BREAKER.
- CONNECT EXISTING PLASMA MEZZANINE REC TO EXISTING 15A-3P BREAKER.
- PROVIDE CONDUCTOR AND CONDUIT EXTENSIONS TO EXTEND EXISTING CIRCUIT TO NEW CIRCUIT BREAKER LOCATION. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES. PROVIDE CORE DRILLING OF EXISTING FLOOR TO STUB CONDUITS INTO EXISTING MOTOR CONTROL CENTER OR NEW SUBSTATION SWITCHBOARD.
- PROVIDE CONDUIT AND CONDUCTOR EXTENSIONS FROM EXISTING GSW SWITCH TO NEW EXTERIOR SUBSTATION TRANSFORMER. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES. PROVIDE DUCTBANK AS INDICATED ON DUCTBANK DETAIL.
- PROVIDE CONDUIT AND CONDUCTOR EXTENSIONS FROM EXISTING GENERATOR TO EXISTING AUTOMATIC TRANSFER SWITCH. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES.

BASE BID 1:

- INSTALLATION OF POWER TO NEW BOILERS B-2, B-3, & B-4 WITH ASSOCIATED WIRING AND CONDUIT.
- INSTALLATION OF POWER TO NEW BOILER FEED PUMPS AND NEW CONDENSATE TRANSFER PUMPS WITH ASSOCIATED WIRING AND CONDUIT.
- DEMOLITION OF EXISTING BOILER CONTROL PANELS AND INSTALLATION OF POWER TO NEW BOILER CONTROL PANELS.
- INSTALLATION OF POWER TO NEW ROLLUP GARAGE DOORS TO SERVE NEW BOILERS B-2&3.
- INSTALLATION OF AN UNINTERRUPTIBLE POWER SUPPLY (UPS) TO BACK UP THE MASTER CONTROL PANEL, BOILER CONTROL PANEL, NETWORK COMPUTER SYSTEM.
- DEMOLITION OF EXISTING MOTOR CONTROL CENTER (MCC) AND EXTENSION OF EXISTING CIRCUITS TO NEW PANELBOARD AND/OR EXISTING MCC THAT IS TO REMAIN.

BASE BID 2:

- ALL WORK DESCRIBED IN BASE BID 1.
- DEMOLITION OF EXISTING SUBSTATION SWITCHBOARD AND INSTALLATION OF NEW SUBSTATION SWITCHBOARD, INCLUDING EXTENSION OF EXISTING CIRCUITS PREVIOUSLY FED FROM EXISTING SUBSTATION SWITCHBOARD.
- DEMOLITION OF EXISTING SUBSTATION TRANSFORMER AND INSTALLATION OF NEW LIQUID FILLED PAD MOUNTED TRANSFORMER.

BASE BID 3:

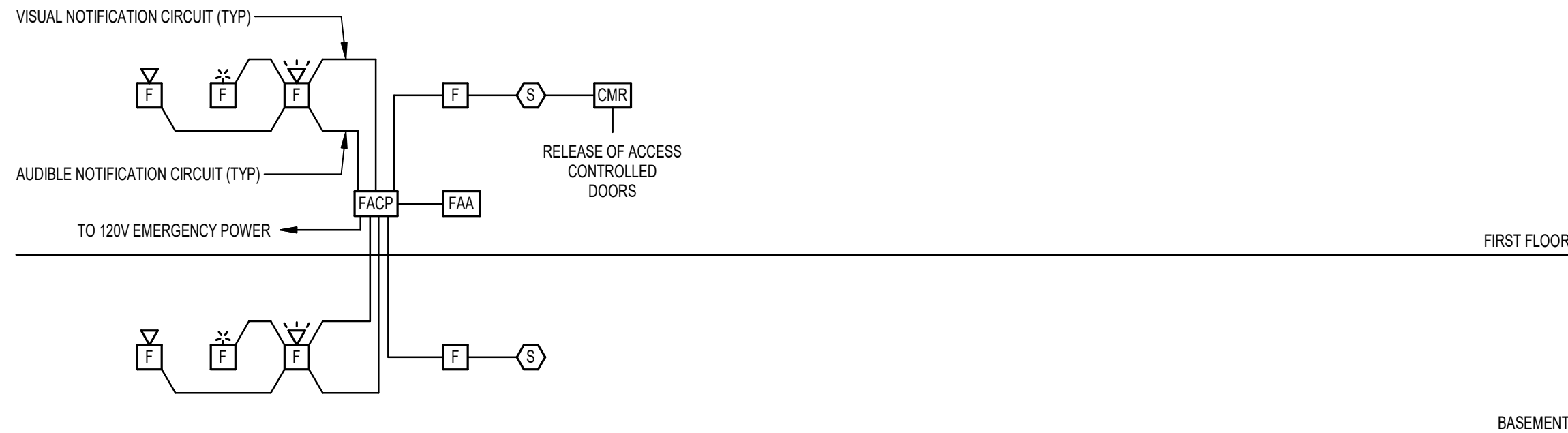
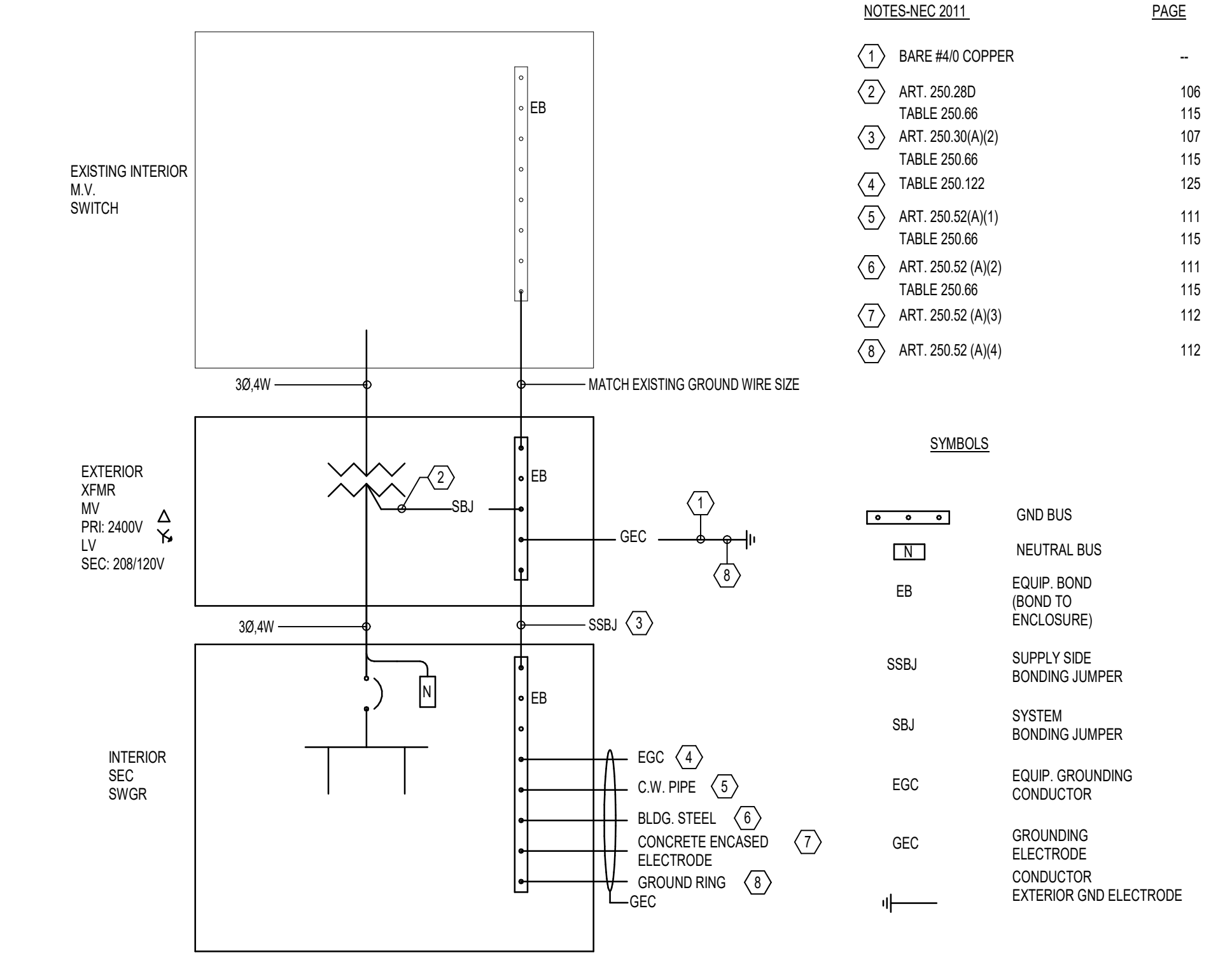
- ALL WORK DESCRIBED IN BASE BID 2.
- INSTALLATION OF EMERGENCY PORT (FUSED DISCONNECT SWITCH) FOR TEMPORARY BOILER.

BASE BID 4:

- ALL WORK DESCRIBED IN BASE BID 3.
- WIRING AND CONNECTION OF NEW CONTROL PANELS WITH HIGH LEVEL ALARM FOR SEWER PUMPS IN BASEMENT.
- WIRING AND CONNECTION OF NEW VFDs FOR EXISTING BOILER FEED PUMPS.
- DEMOLITION OF EXISTING FIRE ALARM SYSTEM AND INSTALLATION OF NEW FIRE ALARM SYSTEM.

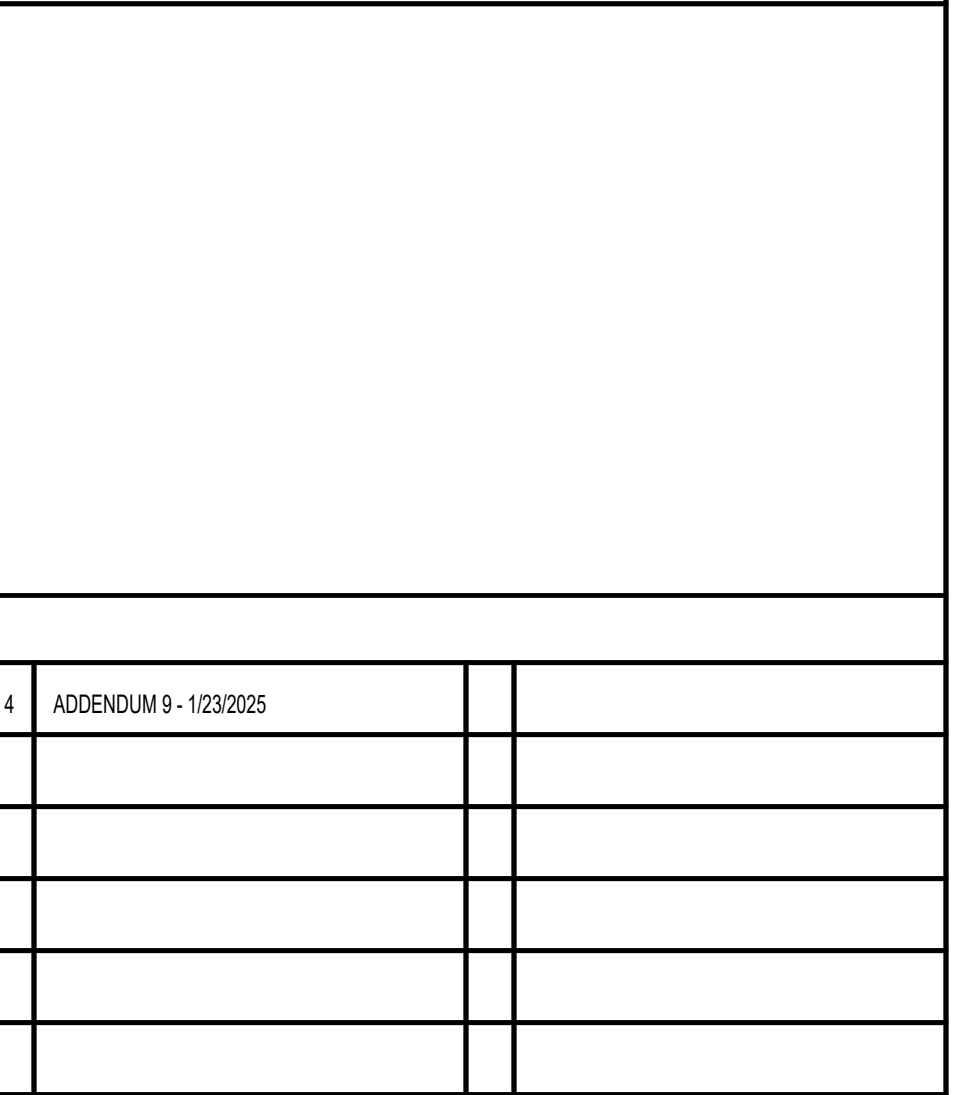
BASE BID 5:

- ALL WORK DESCRIBED IN BASE BID 4.
- DEMOLITION OF POWER TO EXISTING FUEL PUMP ASSEMBLY AND INSTALLATION OF POWER TO NEW FUEL PUMP ASSEMBLY.



4 FIRE ALARM RISER DIAGRAM
 E-7 NO SCALE

CAMPUS / KEY PLAN



CONSTRUCTION DOCUMENTS

RECORD REVISIONS

NO.	DATE	DESCRIPTION
4	ADDENDUM 9 - 1/23/2025	

TIMOTHY C. BERTOLINO
 10-14-2024
 DATE

CJL ENGINEERING
 232 Homer Street
 Johnstown, PA 15902
 PH: (814) 536-1651 FAX: (814) 536-5732

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0503-0027 Phase 001

Danville State Hospital
 Replace Steam Generation Equipment

RISER DIAGRAM - NEW

DRAWN BY D. BOYER	DATE 10-14-2024	SHEET No. E-7
CHECKED BY T. BERTOLINO	SCALE As indicated	

SWITCHBOARD: SUBSTATION SWITCHBOARD							
LOCATION: MOUNTING: SURFACE SUPPLY FROM: EXISTING AUTOMATIC TRANSFER SWITCH			VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4		A.I.C. RATING: 65,000 MCB RATING: 1600 A		
BASE BID 2							
CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	WIRE SIZE	Remarks
1	EXISTING MOTOR CONTROL CENTER	3	600 A	600 A	0.00	SEE RISER DIAGRAM	
2	NEW PNL 97A	3	600 A	600 A	117.11	SEE RISER DIAGRAM	
3	EXISTING PNL 92A	3	125 A	100 A	2.00	SEE RISER DIAGRAM	
4	EXISTING PNL 93-50	3	125 A	125 A	0.00	SEE RISER DIAGRAM	
5	EXISTING PNL 94A	3	125 A	100 A	0.00	SEE RISER DIAGRAM	
6	EXISTING PNL 95-12A	3	225 A	150 A	0.00	SEE RISER DIAGRAM	
7	EXISTING PNL 96A	3	225 A	150 A	0.00	SEE RISER DIAGRAM	
8	EXISTING PNL RAVINE HOUSE	3	225 A	225 A	0.00	SEE RISER DIAGRAM	
9	EXISTING #3 AIR COMPRESSOR	3	225 A	200 A	0.00	SEE RISER DIAGRAM	
10	NEW EMERGENCY TEMP BOILER DISCONNECT	3	225 A	150 A	0.00	SEE RISER DIAGRAM	BASE BID 3
11	SPARE	1	125 A	100 A	0.00		
12	SPARE	1	125 A	100 A	0.00		
13	SPARE	1	60 A	60 A	0.00		
14	SPARE	1	60 A	60 A	0.00		
15	SPACE	1	--	--	--		
16	SPACE	1	--	--	--		
17	SPACE	1	--	--	--		
18	SPACE	1	--	--	--		
TOTAL CONNECTED LOAD:					119.11 KVA		
TOTAL AMPS:					331 A		

PANEL SCHEDULE PNL 97A													
LOCATION: MOUNTING: SURFACE SUPPLY FROM: SUBSTATION SWITCHBOARD ENCLOSURE: TYPE 1 POLE SPACES: 42				VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4 AIC RATING: 42,000 MAIN TYPE: MCB BUS RATING: 600 A MCB RATING: 600 A									
BASE BID 2													
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	RATING	# OF POLES	A	B	C	# OF POLES	RATING	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	NEW BOILER - 2	4 #1, 1 #8 EGC - 1 1/2"	100 A	3	8.97	8.97	8.97	8.97	3	100 A	4 #1, 1 #8 EGC - 1 1/2"	2	
3	NEW BOILER - 3										EXISTING DRILL LOCAL DISCONNECT #92-A-4	4	
5												6	
7	NEW BOILER - 6	(4) #10, (1) #10 EGC - 3/4"	30 A	3	2.00	5.54	2.00	5.54	3	60 A	(4) #4, (1) #10 EGC - 1 1/4"	8	
9	NEW FEED WATER PUMP #1										NEW FEED WATER PUMP #1	10	
11												12	
13	NEW FEED WATER PUMP #2	(4) #4, (1) #10 EGC - 1 1/4"	60 A	3	5.54	5.54	5.54	5.54	3	60 A	(4) #4, (1) #10 EGC - 1 1/4"	14	
15	NEW FEED WATER PUMP #3										NEW FEED WATER PUMP #3	16	
17												18	
19												20	
21	NEW TRANSFER PUMP #1	(4) #12, (1) #12 EGC - 3/4"	20 A	3	0.90	0.90	0.90	0.90	3	20 A	(4) #12, (1) #12 EGC - 3/4"	22	
23												24	
25	NEW GARAGE DOOR #2	(2) #12, (1) #12 EGC - 3/4"	20 A	1	1.00	1.00	0.00	0.00	1	20 A	(2) #12, (1) #12 EGC - 3/4"	26	
27												28	
29	SPARE	--	20 A	3					3	20 A	--	30	
31												32	
33												34	
35	SPARE	--	20 A	3					3	20 A	--	36	
37												38	
39	SPACE	--	1						1	--	SPACE	40	
41	SPACE	--	1						1	--	SPACE	42	
TOTAL CONNECTED APPARENT LOAD:					40.37 KVA	38.37 KVA	38.37 KVA						
TOTAL CONNECTED AMPS:					336 A	320 A	320 A						
TOTAL CONNECTED AMPS:						325 A							

PANEL SCHEDULE PNL 97A													
LOCATION: MOUNTING: SURFACE SUPPLY FROM: ENCLOSURE: TYPE 1 POLE SPACES: 42				VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4 AIC RATING: 42,000 MAIN TYPE: MCB BUS RATING: 1200 A MCB RATING: 1200 A									
BASE BID 1													
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	RATING	# OF POLES	A	B	C	# OF POLES	RATING	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	NEW BOILER - 2	4 #1, 1 #8 EGC - 1 1/2"	100 A	3	8.97	8.97	8.97	8.97	3	100 A	4 #1, 1 #8 EGC - 1 1/2"	2	
3	NEW BOILER - 3										EXISTING DRILL LOCAL DISCONNECT #92-A-4	4	
5												6	
7	NEW BOILER - 6	(4) #10, (1) #10 EGC - 3/4"	30 A	3	2.00	5.54	2.00	5.54	3	60 A	(4) #4, (1) #10 EGC - 1 1/4"	8	
9	NEW FEED WATER PUMP #1										NEW FEED WATER PUMP #1	10	
11												12	
13	NEW FEED WATER PUMP #2	(4) #4, (1) #10 EGC - 1 1/4"	60 A	3	5.54	5.54	5.54	5.54	3	60 A	(4) #4, (1) #10 EGC - 1 1/4"	14	
15	NEW FEED WATER PUMP #3										NEW FEED WATER PUMP #3	16	
17												18	
19												20	
21	NEW TRANSFER PUMP #1	(4) #12, (1) #12 EGC - 3/4"	20 A	3	0.90	0.90	0.90	0.90	3	20 A	(4) #12, (1) #12 EGC - 3/4"	22	
23												24	
25	NEW GARAGE DOOR #2	(2) #12, (1) #12 EGC - 3/4"	20 A	1	1.00	1.00	0.00	0.00	1	20 A	(2) #12, (1) #12 EGC - 3/4"	26	
27												28	
29	SPARE	--	20 A	3					3	20 A	--	30	
31												32	
33												34	
35	SPARE	--	20 A	3					3	600 A	SEE RISER DIAGRAM	36	
37												38	
39	SPACE	--	1						1	--	SPACE	40	
41	SPACE	--	1						1	--	SPACE	42	
TOTAL CONNECTED APPARENT LOAD:					40.37 KVA	38.37 KVA	38.37 KVA						
TOTAL CONNECTED AMPS:					336 A	320 A	320 A						
TOTAL CONNECTED AMPS:						325 A							

SWITCHBOARD: EXISTING MOTOR CONTROL...							
LOCATION: MOUNTING: SURFACE SUPPLY FROM: SUBSTATION SWITCHBOARD			VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4		A.I.C. RATING: EXISTING MCB RATING: 600 A		
Notes: EXISTING TO REMAIN							
CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	WIRE SIZE	Remarks
1	EXISTING #1 SEWAGE PUMP	3	60 A	50 A	0.00	SEE RISER DIAGRAM	
2	EXISTING #2 SEWAGE PUMP	3	125 A	100 A	0.00	SEE RISER DIAGRAM	
3	EXISTING 3" EM SUMP PUMP	3	30 A	25 A	0.00	SEE RISER DIAGRAM	
4	EXISTING 4" EM SUMP PUMP	3	60 A	40 A	0.00	SEE RISER DIAGRAM	
5	EXISTING 4" EM SUMP PUMP	3	60 A	40 A	0.00	SEE RISER DIAGRAM	
6	SPARE	3	15 A	15 A	0.00		
7	EXISTING BOILER #3 FEED PUMP	3	60 A	40 A	0.00	SEE RISER DIAGRAM	
8	EXISTING BOILER #2 FEED PUMP	3	125 A	70 A	0.00	SEE RISER DIAGRAM	
9	EXISTING BOILER #5	3	60 A	50 A	0.00	SEE RISER DIAGRAM	
10	EXISTING BOILER FEED PUMP #1	3	125 A	70 A	0.00	SEE RISER DIAGRAM	
11	EXISTING BOILER FEED PUMP #4	3	125 A	70 A	0.00	SEE RISER DIAGRAM	
12	EXISTING PNL 89B TRANSFORMER	3	125 A	100 A	0.00	SEE RISER DIAGRAM	
13	EXISTING PLASMA REC MEZZANINE	3	225 A	150 A	0.00	SEE RISER DIAGRAM	
TOTAL CONNECTED LOAD:					0.00 KVA		
TOTAL AMPS:					0 A		

PANEL SCHEDULE PNL 92A													
LOCATION: MOUNTING: SURFACE SUPPLY FROM: SUBSTATION SWITCHBOARD ENCLOSURE: TYPE 1 POLE SPACES: 30				VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4 AIC RATING: EXISTING MAIN TYPE: MCB BUS RATING: 225 A MCB RATING: 225 A									
EXISTING TO REMAIN													
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	RATING	# OF POLES	A	B	C	# OF POLES	RATING	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	EXISTING WELDER RECEPT. WORK SHOP	--	50 A	3	0.00	0.00	0.00	0.00	3	20 A	--	2	
3	EXISTING MILLING MACHINE LOCAL DISCONNECT #92-A-3	--	20 A	3	0.00	0.00	0.00	0.00	3	20 A	--	4	
5												6	
7	EXISTING HENDEY LATHE LOCAL DISCONNECT #92-A-4	--	20 A	3	0.00	0.00	0.00	0.00	3	20 A	--	8	
9												10	
11												12	
13	EXISTING OVERHEAD GARAGE DOOR RM 1002	--	20 A	3	0.00	0.00	0.00	0.00	2	20 A	--	14	
15												16	
17												18	
19	EXIST. REC ON SIDE OF PNL/MW	--	20 A	1	0.00	0.00	0.00	0.00	1	20 A	--	20	
21	EXISTING LIGHT AT LATHE	--	20 A	1					2	50 A	--	22	
23	EXISTING CONTROL PNL OFFICE	--	20 A	1								24	
25	EXISTING SECURITY CAMERAS	--	20 A	1	0.00	0.00	0.00	0.00	3	100 A	--	26	
27	EXISTING RECS BY OFF WINDOW	--	20 A	1								28	
29	UPS	(2) #10, (1) #10 EGC - 3/4"	30 A	1					2.00	0.00		30	
TOTAL CONNECTED APPARENT LOAD:					0.00 KVA	0.00 KVA	2.00 KVA						
TOTAL CONNECTED AMPS:					0 A	0 A	17 A						
TOTAL CONNECTED AMPS:						6 A							

BASE BID 1:

- INSTALLATION OF POWER TO NEW BOILERS B-2, B-3, & B-6 WITH ASSOCIATED WIRING AND CONDUIT.
- INSTALLATION OF POWER TO NEW BOILER FEED PUMPS AND NEW CONDENSATE TRANSFER PUMPS WITH ASSOCIATED WIRING AND CONDUIT.
- DEMOLITION OF EXISTING BOILER CONTROL PANELS AND INSTALLATION OF POWER TO NEW BOILER CONTROL PANELS TO SERVE NEW BOILERS B-2&3.
- INSTALLATION OF POWER TO NEW ROLLUP GARAGE DOORS TO SERVE NEW BOILERS B-2&3.
- INSTALLATION OF AN UNINTERRUPTIBLE POWER SUPPLY (UPS) TO BACK UP THE MASTER CONTROL PANEL, BOILER CONTROL PANEL, NETWORK COMPUTER SYSTEM.
- DEMOLITION OF EXISTING MOTOR CONTROL CENTER (MCC) AND EXTENSION OF EXISTING CIRCUITS TO NEW PANELBOARD AND/OR EXISTING MCC THAT IS TO REMAIN.

BASE BID 2:

- ALL WORK DESCRIBED IN BASE BID 1.
- DEMOLITION OF EXISTING SUBSTATION SWITCHBOARD AND INSTALLATION OF NEW SUBSTATION SWITCHBOARD, INCLUDING EXTENSION OF EXISTING CIRCUITS PREVIOUSLY FED FROM EXISTING SUBSTATION SWITCHBOARD.
- DEMOLITION OF EXISTING TRANSFORMER AND INSTALLATION OF NEW LIQUID FILLED PAD MOUNTED TRANSFORMER.

BASE BID 3:

- ALL WORK DESCRIBED IN BASE BID 2.
- INSTALLATION OF EMERGENCY PORT (FUSED DISCONNECT SWITCH) FOR TEMPORARY BOILER.

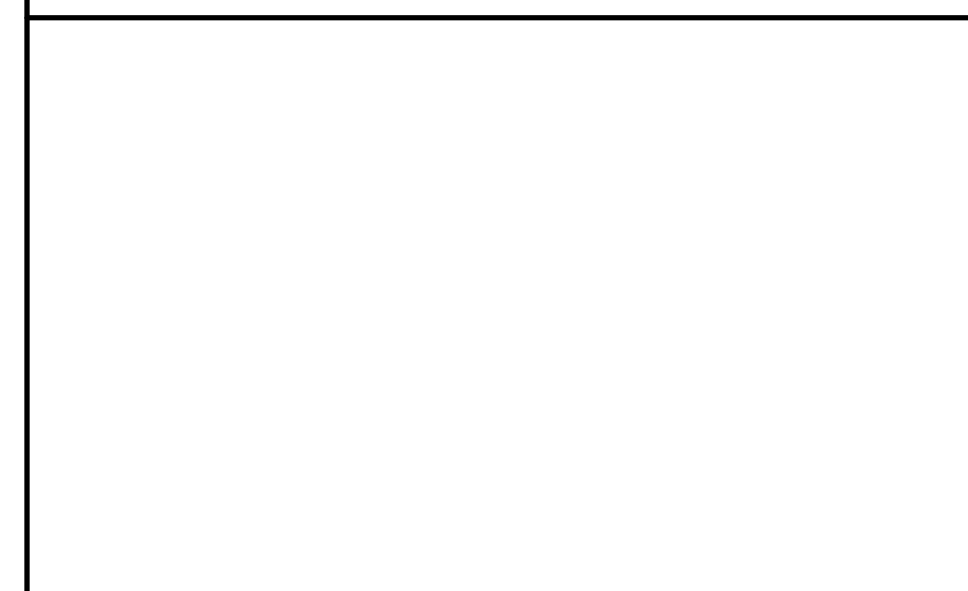
BASE BID 4:

- ALL WORK DESCRIBED IN BASE BID 3.
- WIRING AND CONNECTION OF NEW CONTROL PANELS WITH HIGH LEVEL ALARM FOR SEWER PUMPS IN BASEMENT.
- WIRING AND CONNECTION OF NEW WFDs FOR EXISTING BOILER FEED PUMPS.
- DEMOLITION OF EXISTING FIRE ALARM SYSTEM AND INSTALLATION OF NEW FIRE ALARM SYSTEM.

BASE BID 5:

- ALL WORK DESCRIBED IN BASE BID 4.
- DEMOLITION OF POWER TO EXISTING FUEL PUMP ASSEMBLY AND INSTALLATION OF POWER TO NEW FUEL PUMP ASSEMBLY.

CAMPUS / KEY PLAN



4	ADDENDUM 9 - 12/31/2025		

RECORD REVISIONS

CONSTRUCTION DOCUMENTS

Professional Engineer Seal for Timothy C. Bertolino, State of Pennsylvania, License No. 10142. Signature: Timothy C. Bertolino, Date: 10-14-2024.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. **DGS C-0503-0027 Phase 001**

**Danville State Hospital
Replace**