



**DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242**

ADDENDUM NO. 1 TO PROJECT NO. 45444

**CONSTRUCTION WORK, HVAC WORK, PLUMBING WORK AND ELECTRICAL WORK
PROVIDE ENCLOSED FIRING RANGE
AUBURN CORRECTIONAL FACILITY, QWL SITE
3579 FRANKLIN STREET ROAD
SENNETT, NY**

February 13, 2019

<p>NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.</p>
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**CONSTRUCTION WORK, HVAC WORK, PLUMBING WORK AND ELECTRIC WORK
SPECIFICATIONS**

1. Page 012100 – 2, Change Paragraph 1.04 A. to read:
 - “A. Electrical Work Contract: Include in the contract sum the amount of \$8,879 to cover the cost of extension of three phase power along Franklin Street Road to the project site and connection of the three-phase power to the meter and transformer in coordination with New York State Electric and Gas (NYSEG) as shown on the Drawings.
 1. The cost of providing the Work of this allowance will be paid in the amount specified. It is a fixed price allowance. Progress payments will be determined, by the Director, by evaluating the work completed.
 2. Include overhead and profit for administering this allowance separately in the contract sum, not in the allowance.
 3. Cause the products covered by this allowance to be provided by such persons or firm and for such amount as designated.
 4. The amount of the allowance includes furnishing and installing the products in accordance with the requirements of referenced Specification Section(s) and Drawings.
 5. Execute agreement with designated persons or firm. Arrange for Samples, Shop Drawings, Product Data, Delivery and Installation in accordance with the requirements of referenced Specification Section(s) and Drawings.”

2. Page 015000 -2, Change Paragraph 1.03 A. Items 1, 2 and 3 to Read:

“A. Electrical Work Contract:

1. Make necessary arrangements with the local electrical utility company for the installation of a 600 ampere, 3 phase, 208-230 volt temporary electrical service to supply the needs of all contractors for the performance of their Work. Pay all utility company charges. Disconnect the service and dispose or recycle the service components at project completion.
2. Provide portable source of electricity (i.e. generator) for temporary light and power of adequate capacity to supply the needs of all contractors for the performance of their Work until the 600 ampere, 3 phase, 208-230 volt temporary electrical service can be utilized for temporary light and power. Provide and pay for all fuel or other costs for the portable source.
3. If a pole line is used for temporary light and power, install minimum Class 4 poles of height required to maintain at least 25 feet ground clearance under wires. Space wires on cross arms to suit voltage.”

3. Page 015123 – 2, Change Paragraph 1.02 A. Item 5 a) and b) 1 through 4 to Read:

“5. In addition:

- a. Provide and maintain a Cooper Atkins GL100 Data Logger Kit, at locations directed.
- b. Provide where directed in the building, an additional 10 Cooper Atkins GL100 Temperature Data Loggers with mounts.”

CONSTRUCTION WORK SPECIFICATIONS

4. Page 015213 - 3, Change Paragraph 2.01 C. Items 14 to Read:

“14. Provide/wire unit for phone service and internet data (Verizon Fios or Spectrum). Provide hard or internal wireless connections for three phones and internet connections for three computers. Provide three compatible phones for the connections. Pay for all installation costs, set up costs, and monthly phone and internet data service charges for the duration of the contract.”

5. Page 015213 - 3, Change Paragraph 2.02 B. Items 1 and 2 to Read:

- “1. One multifunction Printer-Scanner-Copier, HP LaserJet Pro MFP M227fdn, or equivalent. Purchase or provide one-year service agreement, paid in advance.
2. Supplies for Printer-Scanner-Copier: paper, sizes as directed and toner cartridges for the duration of the project.”

6. Page 015213 - 3, Change Paragraph 3.01 C. to Read:

“C. Provide electric service to unit from nearest available source (450’ max). If a pole line is used for electrical service, install poles of height required to maintain at least 25 feet ground clearance under wires. Include 10’ above grade 4x4 mast for overhead connections to trailer. Retain and pay contractor to provide electrical service, meter, and connections. Pay all utility company charges for the trailer electrical service and power for the duration of

the Contract. Disconnect the service and dispose or recycle the service components at project completion.”

ELECTRICAL WORK DRAWINGS

- 7. Revised Drawings:
 - a. Drawing Nos. E-001, E-103, E-502 and E-503, noted “ADDENDUM #1” dated 02.08.2019 and Drawing No. E-106 noted “ADDENDUM #1” dated 02.11.2019 accompany this addendum and supersede the same numbered originally issued drawings.

CONSTRUCTION WORK DRAWINGS

- 8. Added Drawing:
 - a. Add the accompanying drawing numbered S-504, noted “ADDENDUM #1” dated 02.08.2019.
- 9. Revised Drawing:
 - a. Drawing No. S-103 noted “ADDENDUM #1” dated 02.8.2019 accompanies this addendum and supersedes the same numbered originally issued drawing.

END OF ADDENDUM

Erik T. Deyoe, P.E.
Director, Division of Design
Design & Construction

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), N.Y.S. BUILDING CODES AND ALL LOCAL AND MUNICIPAL CODES HAVING JURISDICTION.
- VISIT SITE, ACQUAINT HIMSELF WITH EXISTING CONDITIONS AND INCLUDE ALL NECESSARY COSTS TO COMPLETE THE INSTALLATION.
- FURNISH AND PAY FOR ALL PERMITS AS REQUIRED AND OBTAIN FINAL CERTIFICATE OF INSPECTION.
- WORK MUST BE COORDINATED WITH ALL OTHER TRADES TO ELIMINATE CONFLICTS AND INTERFERENCES.
- BALANCE LOADS ON PARALLEL FEEDER AND ALL PANELS.
- PROVIDE PROPER "FIRE STOPPING" AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. SUBMIT EXACT MATERIALS AND METHODS TO THE DIRECTOR'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. NO EXCEPTIONS TAKEN.
- CONTROL WIRING FOR HVAC UNITS (OTHER THAN LOW VOLTAGE POWER SUPPLY WIRING) SHALL BE DONE BY HVAC CONTRACTOR.
- ALL FUSES SHALL BE CURRENT LIMITING CLASS RK1.
- CONDUIT AND WIRE ON POWER AND LIGHTING PLANS IS NOT SHOWN EXCEPT FOR HOMERUNS. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BOXES, PULL BOXES, WIRING, SWITCHES AND ACCESSORIES TO INTERCONNECT THE ELECTRICAL ITEM FOR CIRCUITING AND HOMERUNS INDICATED SYMBOLICALLY ON THE DRAWINGS. SEE LEGEND-HOMERUNS DESIGNATION FOR SYMBOLOGY APPLICABLE TO ALL SYMBOLS SHOWN.
- TO PROVIDE ALL WALL BOXES FOR POWER & VOICE/DATA. E.C. MUST PROVIDE POWER WHIP, VOICE/DATA RACEWAYS AND FINAL POWER CONNECTIONS TO FURNITURE SYSTEMS. FINAL COORDINATION WITH FURNITURE VENDOR IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE ALL TEMPORARY INTERIOR LIGHTING FOR ALL TRADES DURING DEMOLITION (IF APPLICABLE) & CONSTRUCTION.
- POWER DISTRIBUTION NOTE: CONDUITS TO BE AS FOLLOWS. WHERE RUN WITHIN THE BUILDING IN DRY LOCATIONS NOT SUBJECT TO PHYSICAL DAMAGE PROVIDE E.M.T. WHERE RUN IN BUILDING WHERE SUBJECT TO PHYSICAL DAMAGE, WET OR DAMP LOCATIONS, THRU ROOFS OR CONCRETE PROVIDE THICK WALLED RIGID STEEL CONDUIT. WHERE RUN UNDERGROUND PROVIDE SCHEDULE 80 P.V.C. EXCEPT THAT ALL ELBOWS ON P.V.C. CONDUIT SYSTEM SHALL BE THICK WALLED RIGID STEEL AND SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. 300-5(D) WHERE REQUIRED.

TYPICAL DEVICE MOUNTING HEIGHT

RECEPTACLES (OFFICE AREA)	18" AFF
RECEPTACLES (U.O.N.)	36" AFF
LIGHT SWITCHES	48" AFF
DISCONNECT SWITCHES	NEC 240.24
TELEPHONE OUTLETS	18" AFF
TELEPHONE OUTLET (WALL MTD)	48" AFF
COMPUTER OUTLETS	18" AFF
CLOCK OUTLETS	7'-6" AFF
FIRE ALARM PULL STATION	48" AFF
FIRE ALARM AUDIO/VISUAL ALARM	80" AFF
EXIT LIGHTS (WALL MTD)	1' ABOVE DOOR
EMERGENCY LIGHTS (WALL MTD)	7'-6" AFF
TV OUTLETS	18" AFF
AUDIO/VIDEO OUTLETS	18" AFF
MICROPHONE OUTLETS	18" AFF
PA ANNUNCIATOR PANEL	48" AFF
WELDING OUTLETS	36" AFF

NOTE: DIMENSIONS ARE TO DEVICE CENTERLINE UNLESS NOTED OTHERWISE

ABBREVIATIONS

A	AMP-AMPERE	KVA	KILOVOLT AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	KWH	KILOWATT HOUR
BKR	BREAKER	LP	LIGHTING PANEL
C	CONDUIT/CONDUCTOR	LTG	LIGHTING
CB	CIRCUIT BREAKER	MANUF	MANUFACTURER
CKT	CIRCUIT	MC	MAIN CIRCUIT BREAKER
CU	COPPER	MLO	MAIN LUGS ONLY
DWG	DRAWING	N	NEUTRAL
E.C.	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE
ELEC	ELECTRICAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
EF	EXHAUST FAN	NIC	NOT IN CONTRACT
FACP	FIRE ALARM CONTROL PANEL	PNL	PANEL
G	GROUND	RTU	ROOF TOP UNIT
GFI	GROUND FAULT INTERRUPT	TYP	TYPICAL
HP	HORSEPOWER	U.O.N.	UNLESS OTHERWISE NOTED
H.C.	HVAC CONTRACTOR	UH	UNIT HEATER
KV	KILOVOLT	WP	WEATHERPROOF (NEMA 3R)
VAV	VARIABLE AIR VOLUME	XFMR	TRANSFORMER

ELECTRICAL SYMBOL LEGEND

THIS SYMBOL LEGEND IS SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL ON THIS LEGEND DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

	BRANCH CIRCUIT HOMERUN. SHORT LINES INDICATE PHASE CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTOR. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN.
C	C-CONCEALED
E	E-EXPOSED
	JUNCTION BOX
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, RECESSED
	RECEPTACLE, DUPLEX
EM	EM = EMERGENCY
GFI	GFI = GROUND FAULT INTERRUPTER
WP	WP = WEATHERPROOF, NEMA 3R
	RECEPTACLE, QUADRUPLEX
	RECEPTACLE, SINGLE
	RECEPTACLE, SPECIAL PURPOSE
A	A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
B	B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
C	C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
D	D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
E	E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
F	F = 208V, 30A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.
G	G = 208V, 50A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.
H	H = 208V, 60A, 3 PHASE, 3-POLE, 4W, NEMA 15-60R.
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, UNFUSED
	STARTER, COMBINATION WITH DISCONNECT SWITCH (NIC)
	STARTER OR MOTOR CONTROLLER (NIC)
	VARIABLE FREQUENT DRIVE (NIC)
	SWITCH SIZE
	NUMBER OF POLES
	FUSE/BREAKER SIZE
	BLANK DENOTES UNFUSED
	DISCONNECT/CR TAG
	SWITCH 2 = SINGLE POLE L = LOCK 2 = DOUBLE POLE M = MOTOR 3 = THREE-WAY OS = OCCUPANCY SENSOR 4 = FOUR-WAY P = WITH PILOT LIGHT D = DIMMER T = TIMER OPERATED F = FUSED WP = WEATHER PROOF, NEMA K = KEY OPERATED 3R LV = LOW VOLTAGE X = EXPLOSION PROOF
	CEILING MOUNTED OCCUPANCY SENSOR.
—UGC—	UNDERGROUND COMMUNICATION CONDUIT
—OH—	OVERHEAD POWER LINE
—UGE—	UNDERGROUND ELECTRICAL CONDUIT
	LIGHT FIXTURES, VARIOUS. SEE LIGHTING FIXTURE SCHEDULE
	DARK BLACK HATCH INDICATES EMERGENCY BATTERY OR EMERGENCY (LIFE SAFETY) GENERATOR POWER.
	EXIT SIGN, CEILING MOUNTED; EXIT SIGN, WALL MOUNTED. ARROWS INDICATE CHEVRON DIRECTION.
	COMBINATION EMERGENCY AND EXIT SIGN.
	DATA; VOICE/DATA; VOICE OUTLET
	CARD READER
	MOTOR, # = HORSEPOWER (NIC)
	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
	EQUIPMENT TAG
	EQUIPMENT NUMBER
	DETAIL TAG/CALL OUT TAG
	ELECTRICAL SHEET NUMBER
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	RANGE CONTROL PANEL(NIC)
	RANGE VENTILATION CONTROL PANEL(NIC)
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP STATION
	FILTER STATUS PANEL (NIC)
	MAGNETIC DOOR SWITCH
	PANIC BUTTON
	ELECTRIC DOOR STRIKE
	CEILING MOUNTED SECURITY MOTION SENSOR.
	BUILDING MANAGEMENT SYSTEM (NIC)



ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE DRAWINGS AND SPECIFICATIONS, WHICH COMPROMISE THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT, ARE IN COMPLIANCE WITH THE 2016 NEW YORK ENERGY CODE.

WARNING:
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



CONTRACT: **ELECTRICAL**

TITLE: **PROVIDE ENCLOSED FIRING RANGE QWL SITE**

LOCATION: **AUBURN CORRECTIONAL FACILITY QWL SITE
 3579 FRANKLIN STREET ROAD
 SENNETT, NY**

CLIENT: **DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION**

MARK	DATE	DESCRIPTION
	02/08/2019	ADDENDUM #1
	10/15/2018	FINAL SUBMISSION
	5/04/2018	100% SUBMISSION
	1/18/2018	65% SCHEMATIC
PROJECT NUMBER:	45444 - E	
DESIGNED BY:	P. BELAVUS	
DRAWN BY:	P. BELAVUS	
FIELD CHECK:		
APPROVED:	R. BLANCH	
SHEET TITLE:	ELECTRICAL NOTES, SYMBOLS & LEGENDS	
DRAWING NUMBER:	E-001	
SHEET	77	OF 91

ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE:

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PROJECT NUMBER: 45444 - E

DESIGNED BY: P. BELAVIUS

DRAWN BY: P. BELAVIUS

FIELD CHECK:

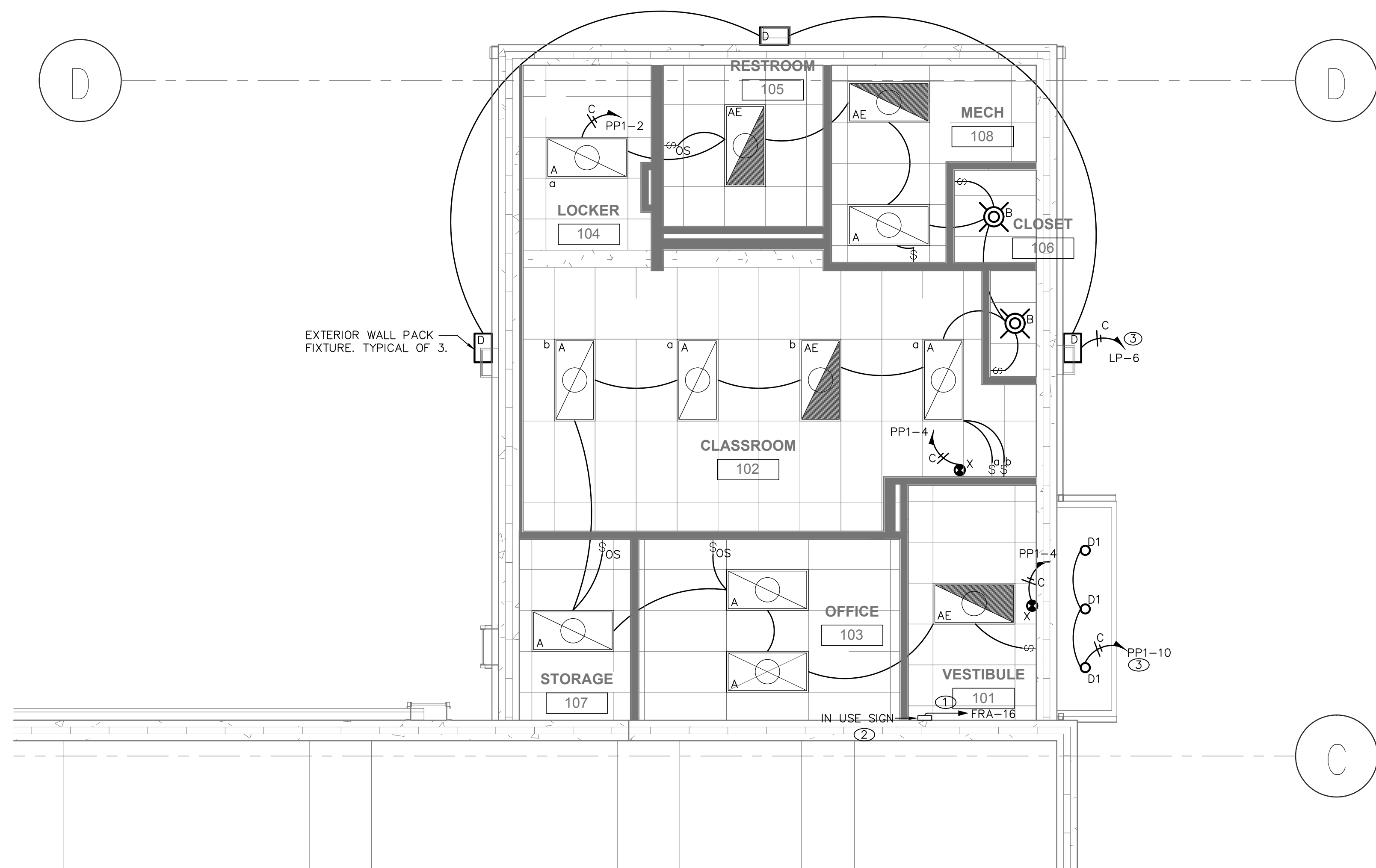
APPROVED: R. BLANCH

SHEET TITLE:
**ADDENDUM #1
ELECTRICAL FLOOR PLAN-LIGHTING**

DRAWING NUMBER:
E-103

SHEET 80 OF 91

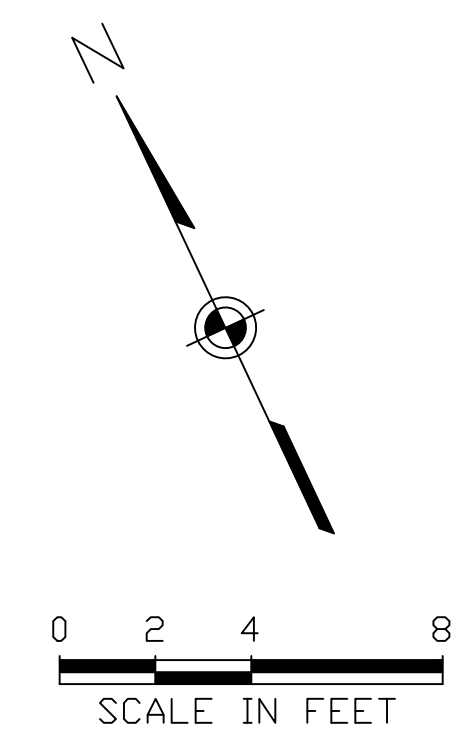
- ELECTRICAL NOTES:**
- EXTEND CIRCUIT TO PANEL AND INTERFACE WITH THE BMS TO ACTIVATE THE FLASHING RED LIGHT WHEN THERE IS A SECURITY VIOLATION AND CEASE-FIRE, A GREEN LIGHT FOR A COLD RANGE AND AN AMBER LIGHT FOR RANGE IN USE.
 - PROVIDE IN-USE SIGN (EDWARDS-SIGNALS 200 CLASS OR EQUAL) WITH THREE LIGHT COLORS. ONE FLASHING RED LIGHT, ONE GREEN LIGHT AND ONE AMBER LIGHT. EACH INDIVIDUALLY CONTROLLED BY RELAY.
 - WIRE LIGHTS THROUGH PHOTOCELL LOCATED ON ROOF.

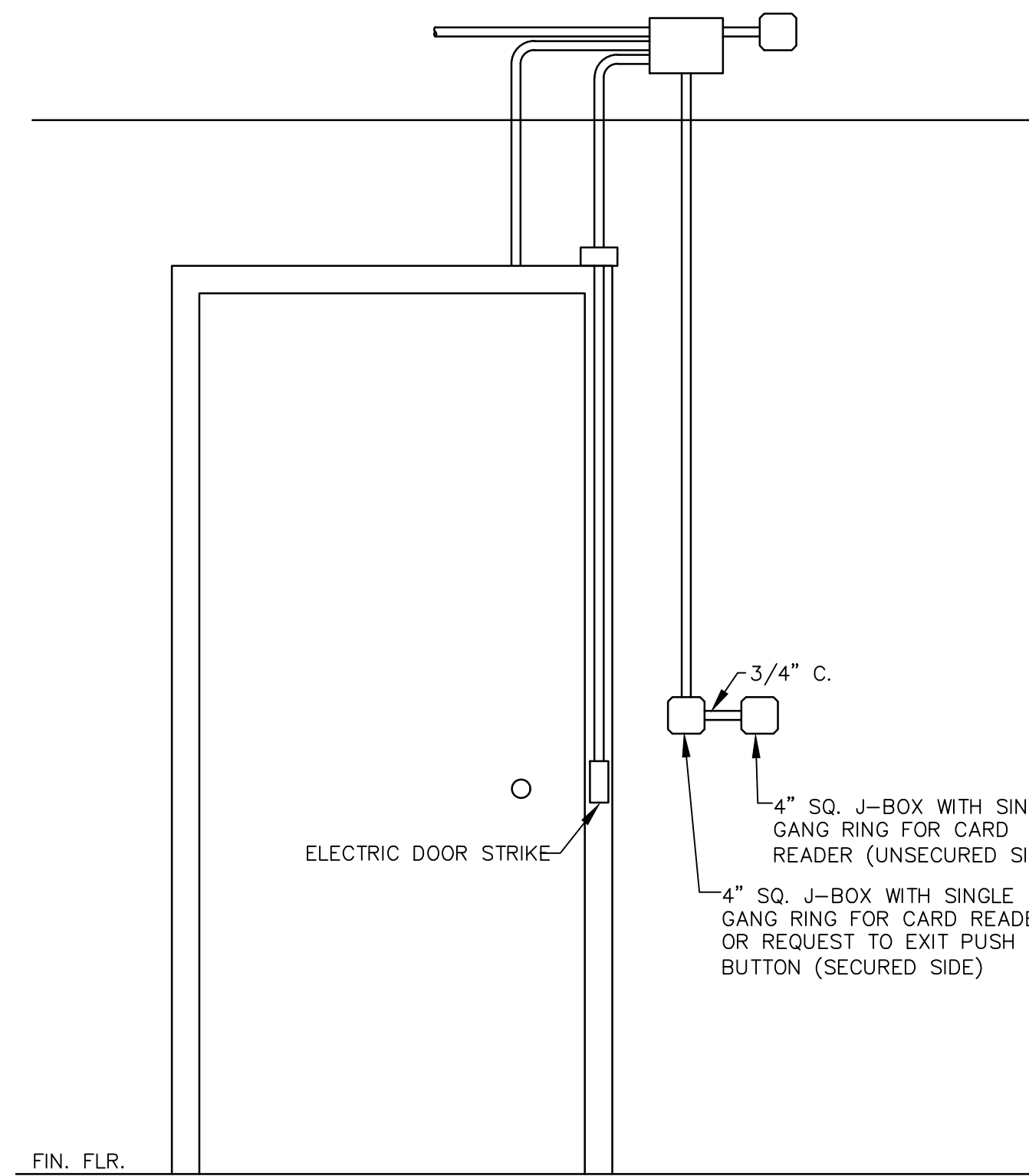


1 ELECTRICAL FLOOR PLAN-LIGHTING
SCALE: 1/4" = 1'-0"

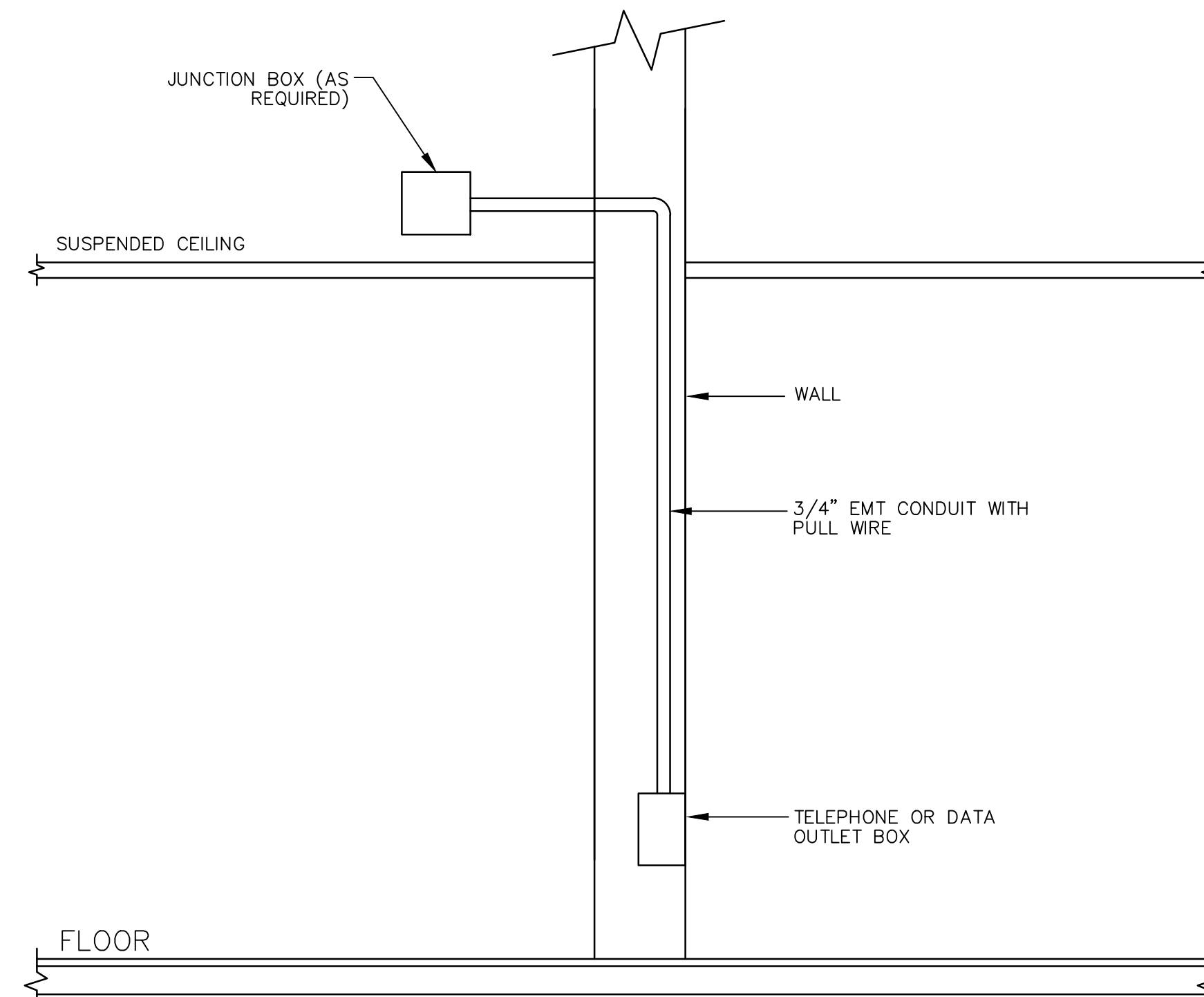
LIGHTING FIXTURE SCHEDULE									
ID	MANUFACTURE	DESCRIPTION	MODEL	VOLTAGE	LAMP'S			FIXTURE WATTAGE	COMMENTS
					LUMENS	TYPE	COLOR TEMP		
A	COOPER	2x4 LED	2ALNG-LD1-45-UNV-L835-CD1-U	120V	4500	LED	3500K	45	PROVIDE BACKUP BATTERY FOR "AE" FIXTURES. FULL LUMENS FOR 90 MIN.
B	HALO	6" DOWNLIGHT	H750TD010-ML712827TUNVD010-494WB06	120V	-	LED	3000K	18	-
D	ENERTRON	WALL PACK	490LED4X12S-50	120V	4480	LED	4000K	32	-
D1	HALO	4" ROUND LED ADJUSTABLE GIMBLE	RL460WH835PK	120V	880	LED	3500K	13	-
X	EXITRONIX	EXIT LIGHT	XL 600 SERIES	120V	-	LED	-	1	-
PLL-1	McGRAWEDISON	SITE LIGHT	GLEON-AF-02-LED-E1-T2-BZ	120V	-	LED	4000K	150	PROVIDE 20 FOOT POLE

SCHEDULE NOTE: ALL ELECTRICAL LIGHTING FIXTURES ARE SUBJECT TO ARCHITECTURAL APPROVAL PRIOR TO PURCHASE

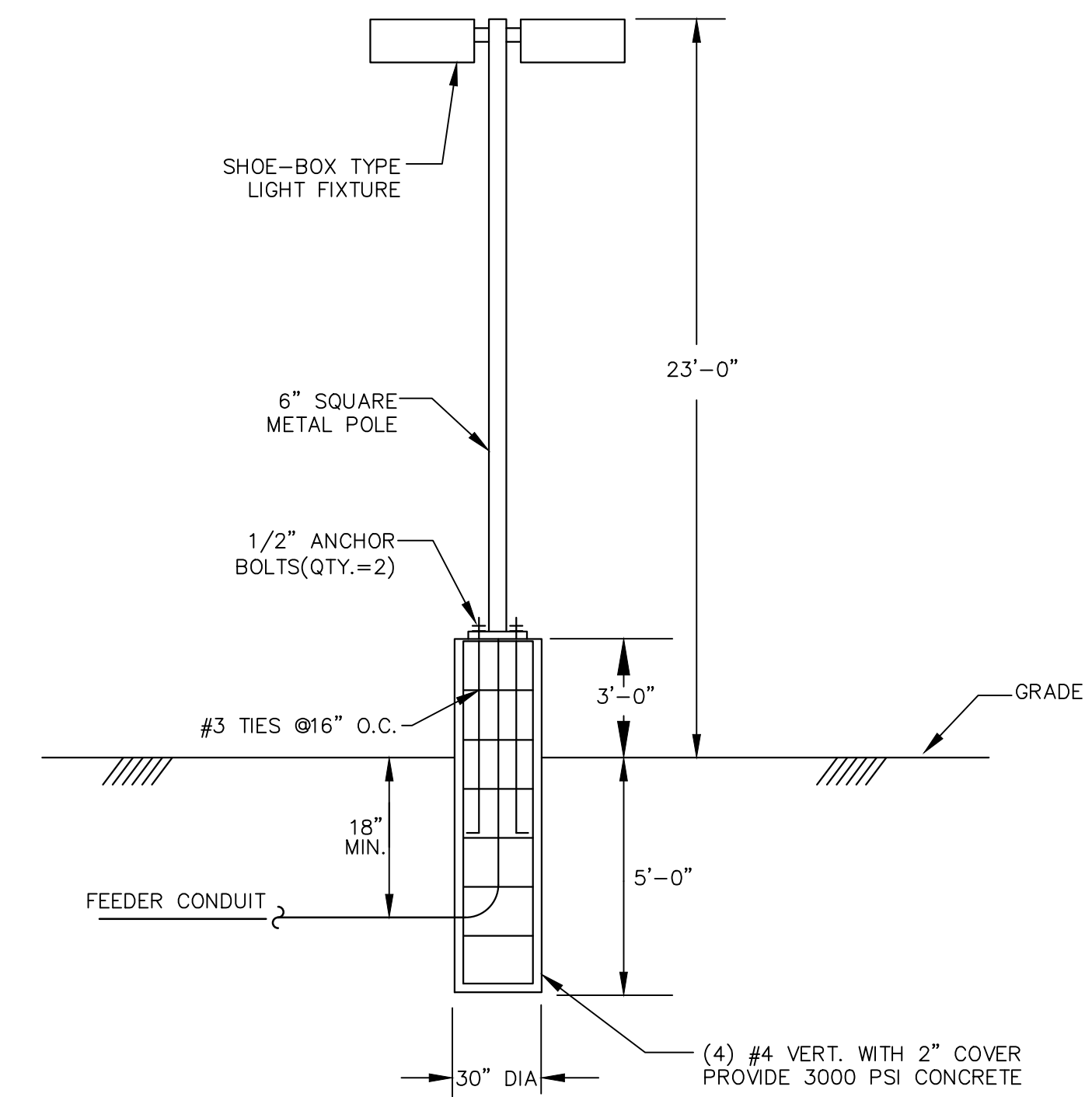




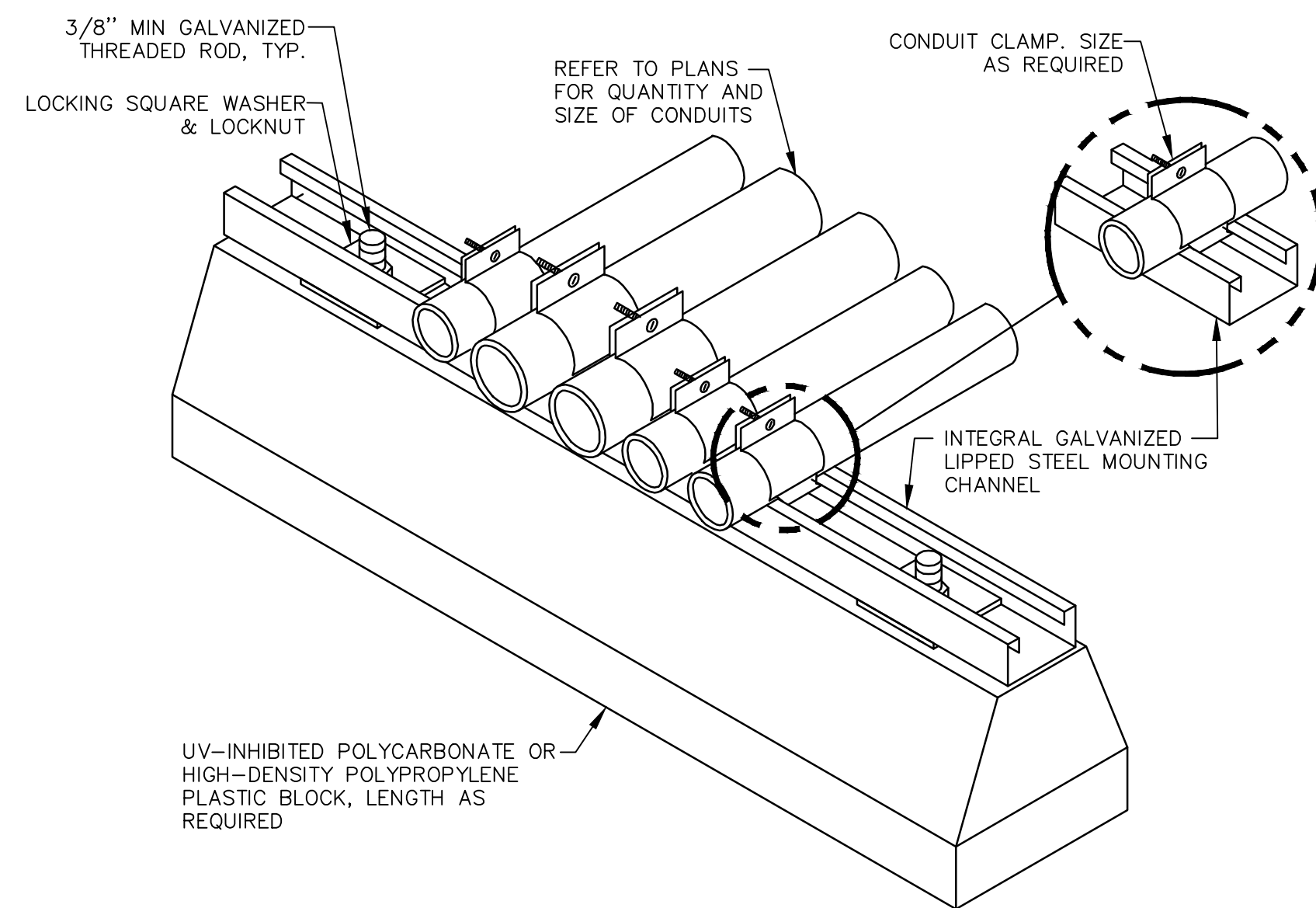
1 ACCESS CONTROL CONDUIT DETAIL FOR CARD READER SYSTEM
E-502 SCALE: NONE



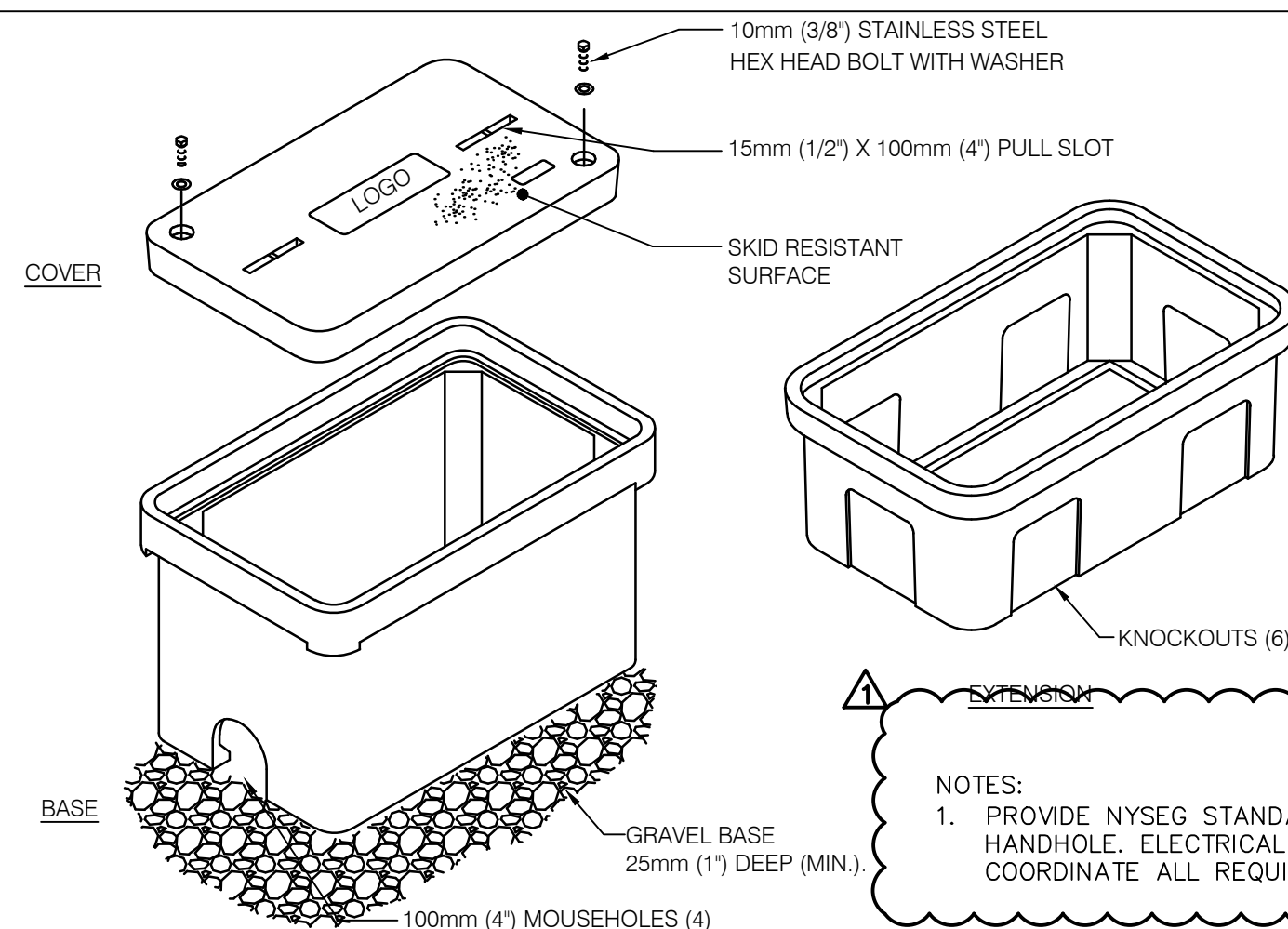
2 TYPICAL CONDUIT FOR TELEPHONE/DATA RACEWAY
E-502 SCALE: NONE



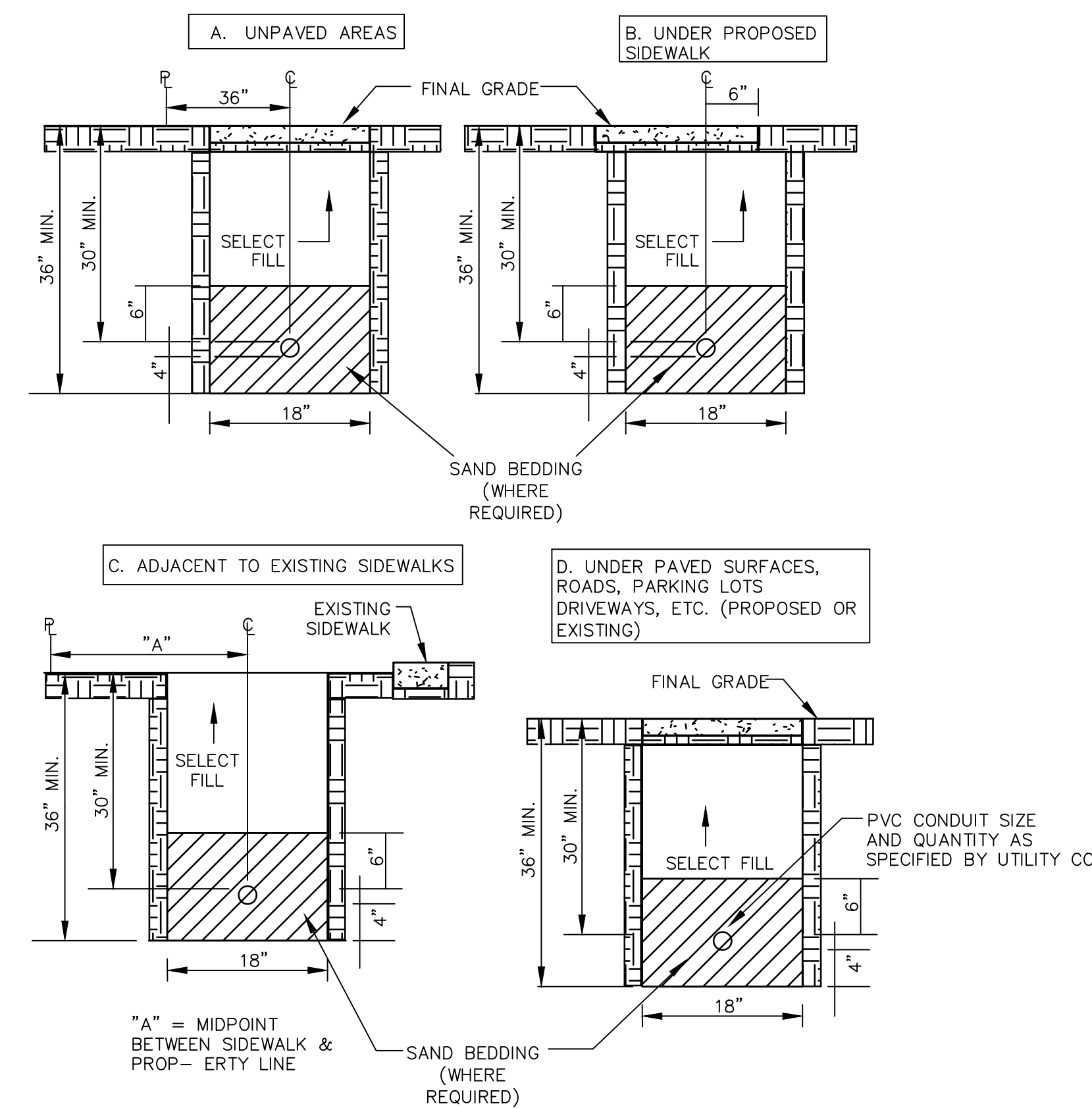
3 LIGHTING POLE INST. DETAIL-DBL SHOE BOX TYPE FIXT.
E-502 SCALE: NOT TO SCALE



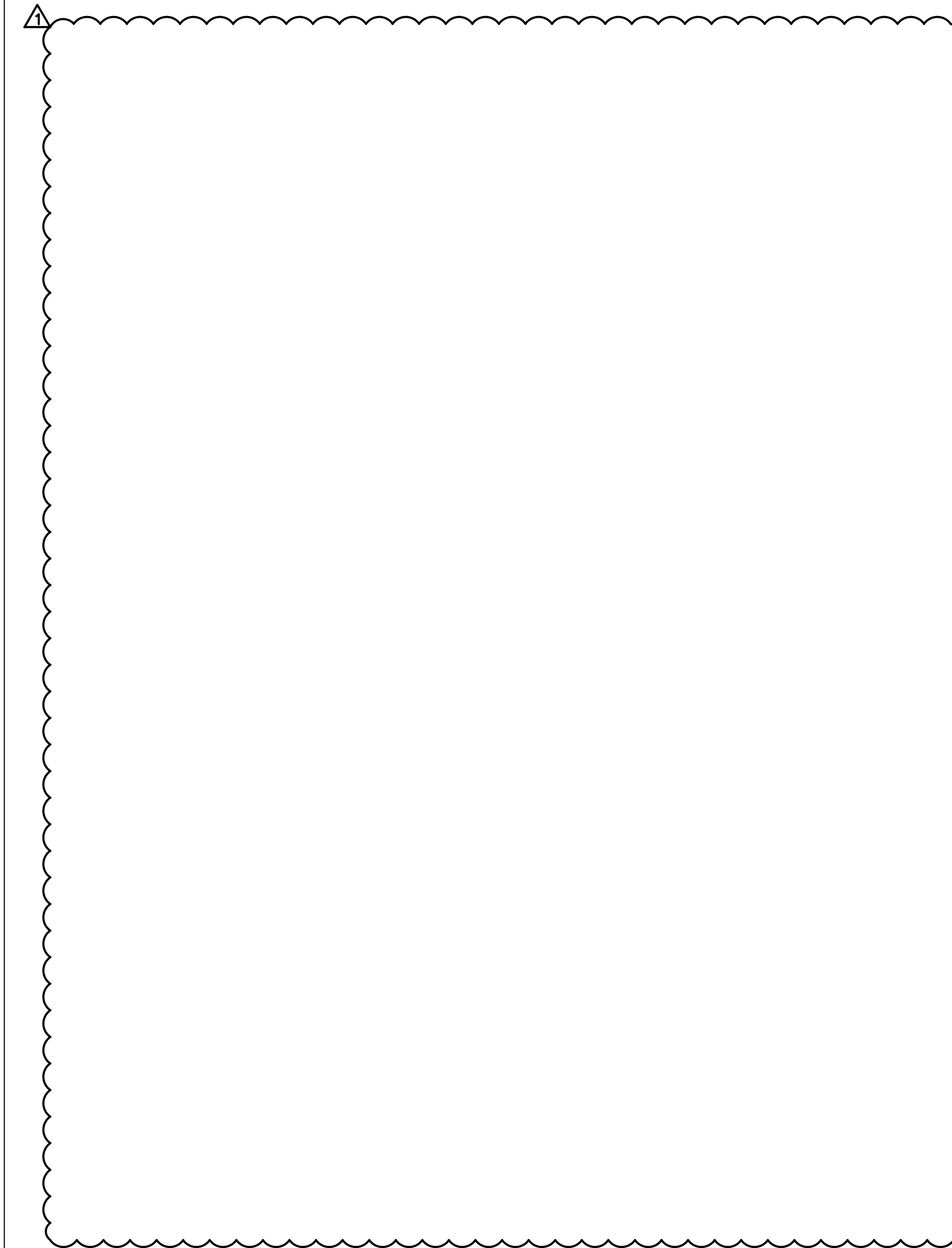
4 ROOF CONDUIT SUPPORT DETAIL
E-502 SCALE: NONE



7 HANDHOLE DETAIL
E-502 SCALE: NONE



5 INSTALLATION OF UNDERGROUND CONDUITS
E-502 SCALE: NONE



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	5/04/2018	100% SUBMISSION
	1/18/2018	65% SCHEMATIC

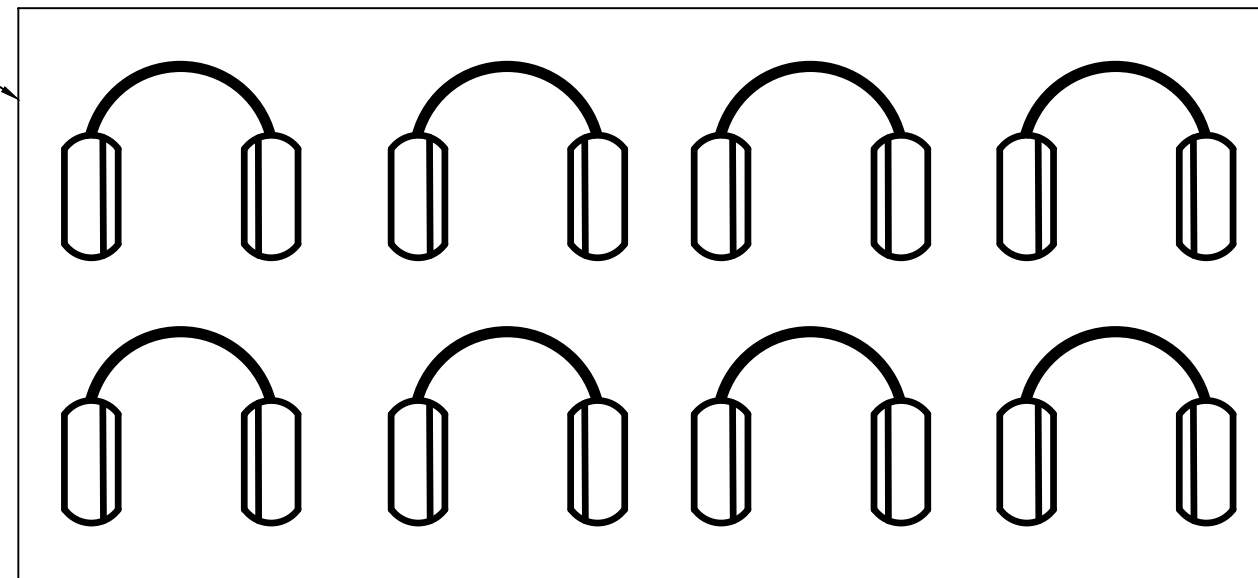
PROJECT NUMBER:	45444 - E
DESIGNED BY:	P. BELAVUS
DRAWN BY:	P. BELAVUS
FIELD CHECK:	
APPROVED:	R. BLANCH

NOTE:

RANGE SAFETY OFFICER WIRELESS COMMUNICATION:

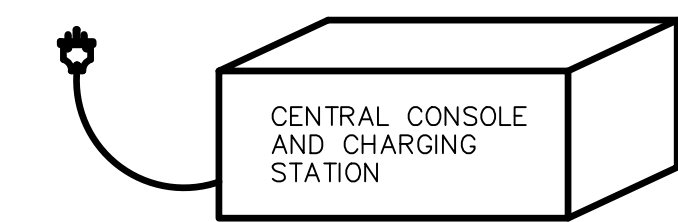
- A. THE RANGE SAFETY OFFICER (RSO) COMMUNICATION SYSTEM SHALL PROVIDE EQUIPMENT FOR THE RSO'S TO SPEAK WITH THE SHOOTERS OVER A WIRELESS SYSTEM. THE EARPIECES AND MICROPHONE FOR THE SYSTEM SHALL BE FITTED INTO A HIGH PERFORMANCE HEARING PROTECTION HEADSET. THE RESULTING HEADSET SHALL STILL BE LIGHT IN WEIGHT AND AFFORD FULL HEARING PROTECTION.

PROVIDE EIGHT (8) PELTOR MT16H21FW55U-584 WS (OR EQUAL) WIRELESS HIGH NOISE COMMUNICATION HEADSETS FOR SHOOTERS. HEADSETS TO BE STORED IN STORAGE ROOM WHEN NOT IN USE.



RECEPTACLE FOR PA & COMMUNICATION SYSTEMS BATTERY CHARGING. REFER TO DRAWING E-105 FOR RECEPTACLE LOCATION.

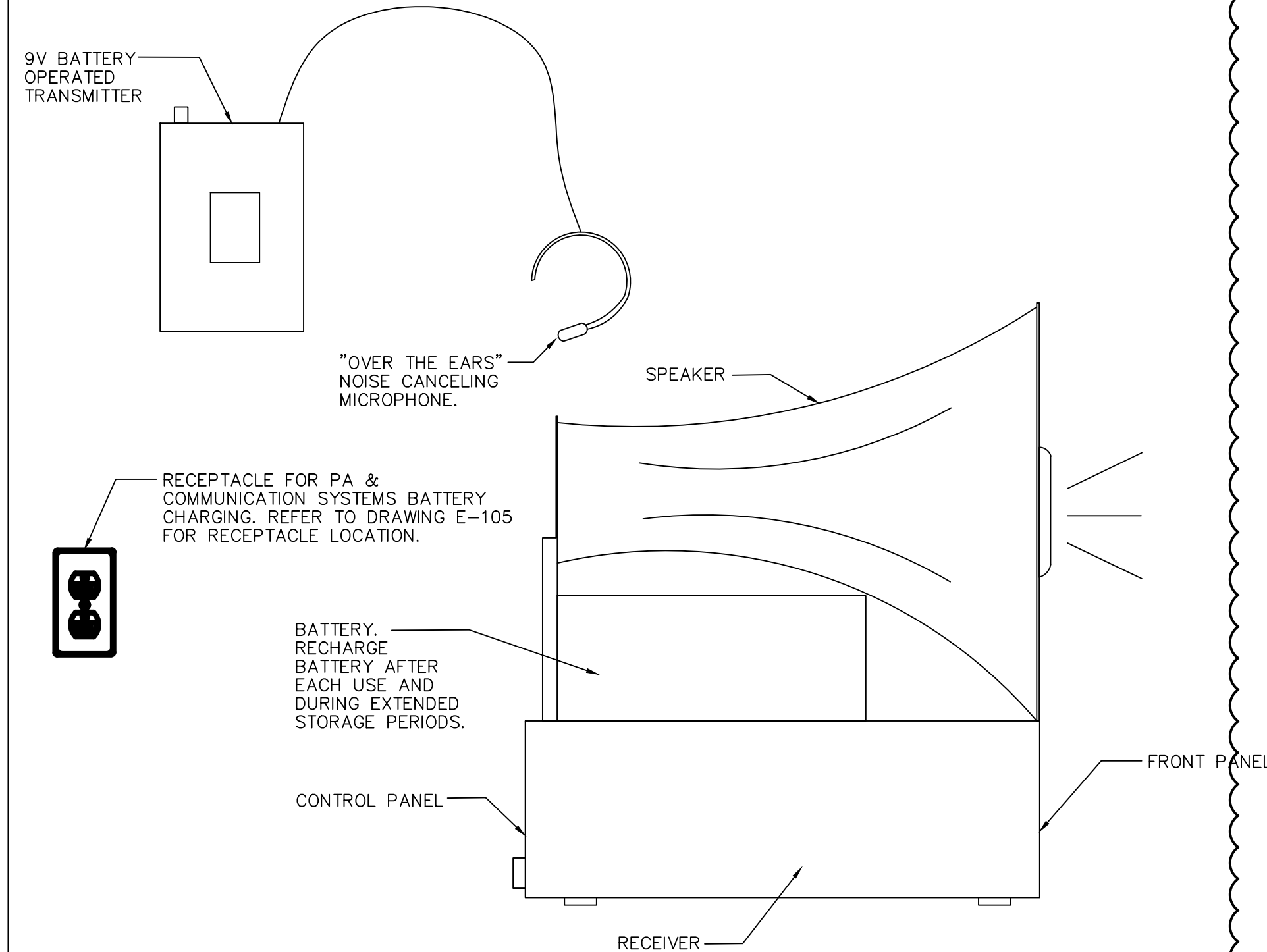
PROVIDE ONE(1) PELTOR LITE COM PLUS M17H7A4612-NA-CA (OR EQUAL) 2-WAY RADIO WIRELESS HIGH NOISE COMMUNICATION HEADSET FOR THE RANGE SAFETY OFFICER. HEADSET TO BE STORED IN STORAGE ROOM WHEN NOT IN USE.



1 COMMUNICATION SYSTEM DETAIL
E-503 SCALE: NONE

NOTE:

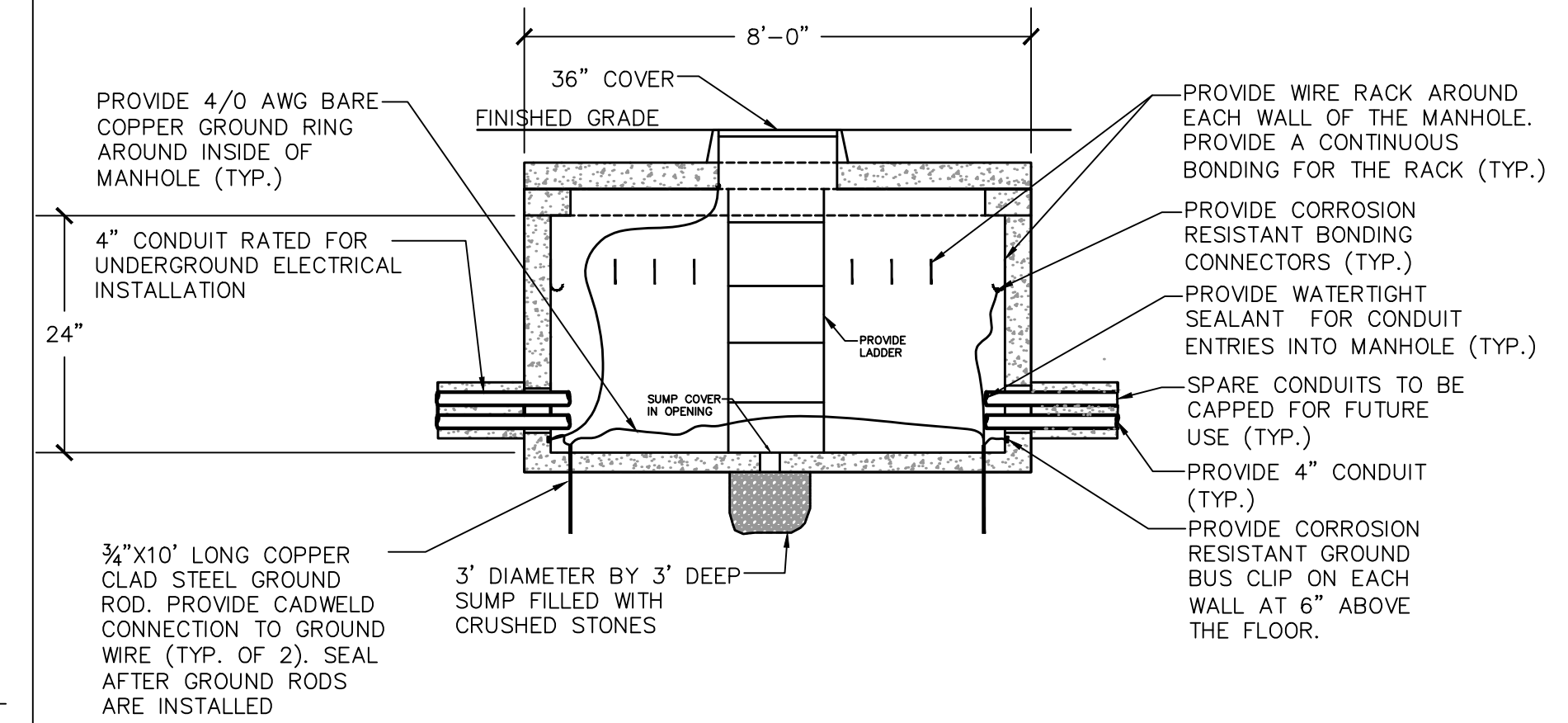
- 1. PROVIDE PORTABLE PA SYSTEM ELECTRONICS "LONG RANGER 4" RIO RANCHO NM. OR EQUIVALENT.



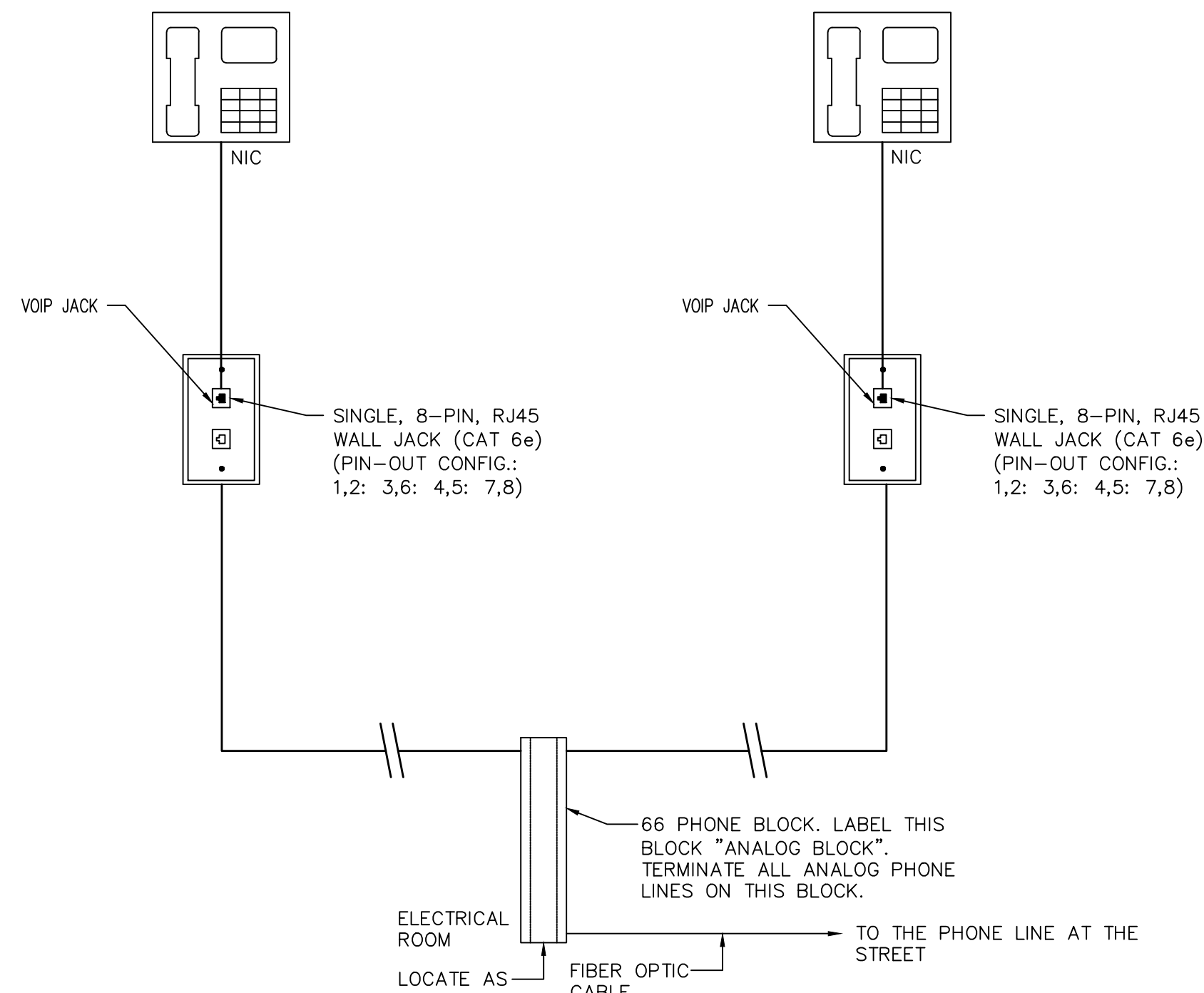
2 PORTABLE PA SYSTEM DETAIL
E-503 SCALE: NONE

NOTES:

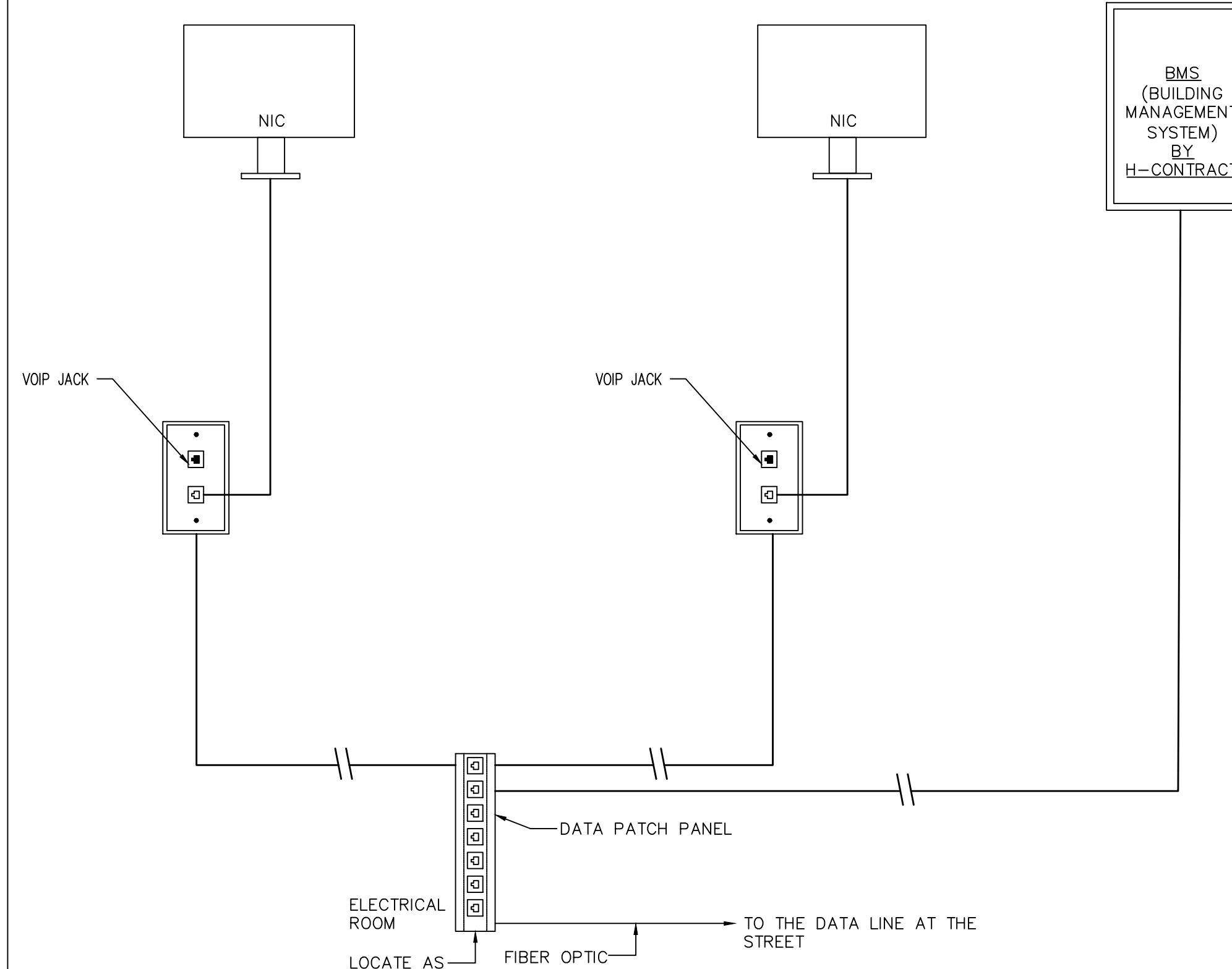
- 1. PROVIDE NYSEG STANDARD 8'X8' MANHOLE. ELECTRICAL CONTRACTOR TO COORDINATE WITH NYSEG REPRESENTATIVE FOR FINAL SELECTION OF MANHOLE.
- 2. MANHOLE SHALL BE INSTALLED PER NYSEG REQUIREMENTS. CONTRACTOR TO COORDINATE IN-FIELD WITH NYSEG REPRESENTATIVE THE CONSTRUCTION AND INSTALLATION OF THE ELECTRICAL MANHOLES.
- 3. THE MANHOLE SHALL HAVE A HEAVY DUTY CAST IRON RING AND COVER DESIGNED TO WITHSTAND AN H-20 LOADING.
- 4. MANHOLE SHALL HAVE A 3' DIAMETER BY 3' DEEP SUMP FILLED WITH CRUSHED STONES.
- 5. THE CONDUITS SLOPE AT LEAST 2" PER 100 FT TOWARDS THE MANHOLE FOR DRAINAGE.
- 6. CONTRACTOR TO INSTALL A PULL WIRE IN EACH CONDUIT.
- 7. ALL SPARE CONDUITS SHALL BE CAPPED AND SEALED UNTIL NEEDED.
- 8. PROVIDE A PERMANENT LADDER TO ACCESS THE MANHOLE.
- 9. ALL HANDHOLES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 10. ALL CONCRETE ENCASEMENT SHALL BE 4,000 PSI AT 28 DAYS.



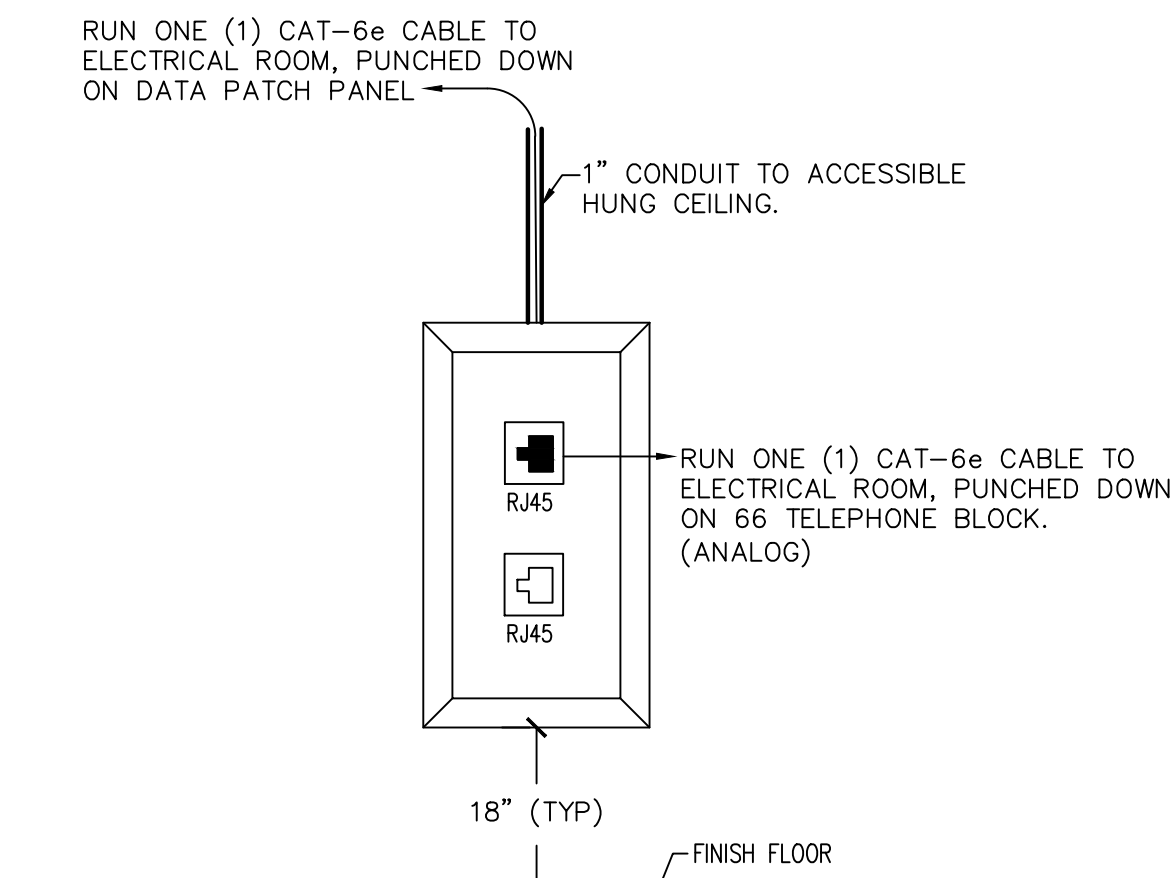
3 MANHOLE DETAIL
E-503 SCALE: NONE



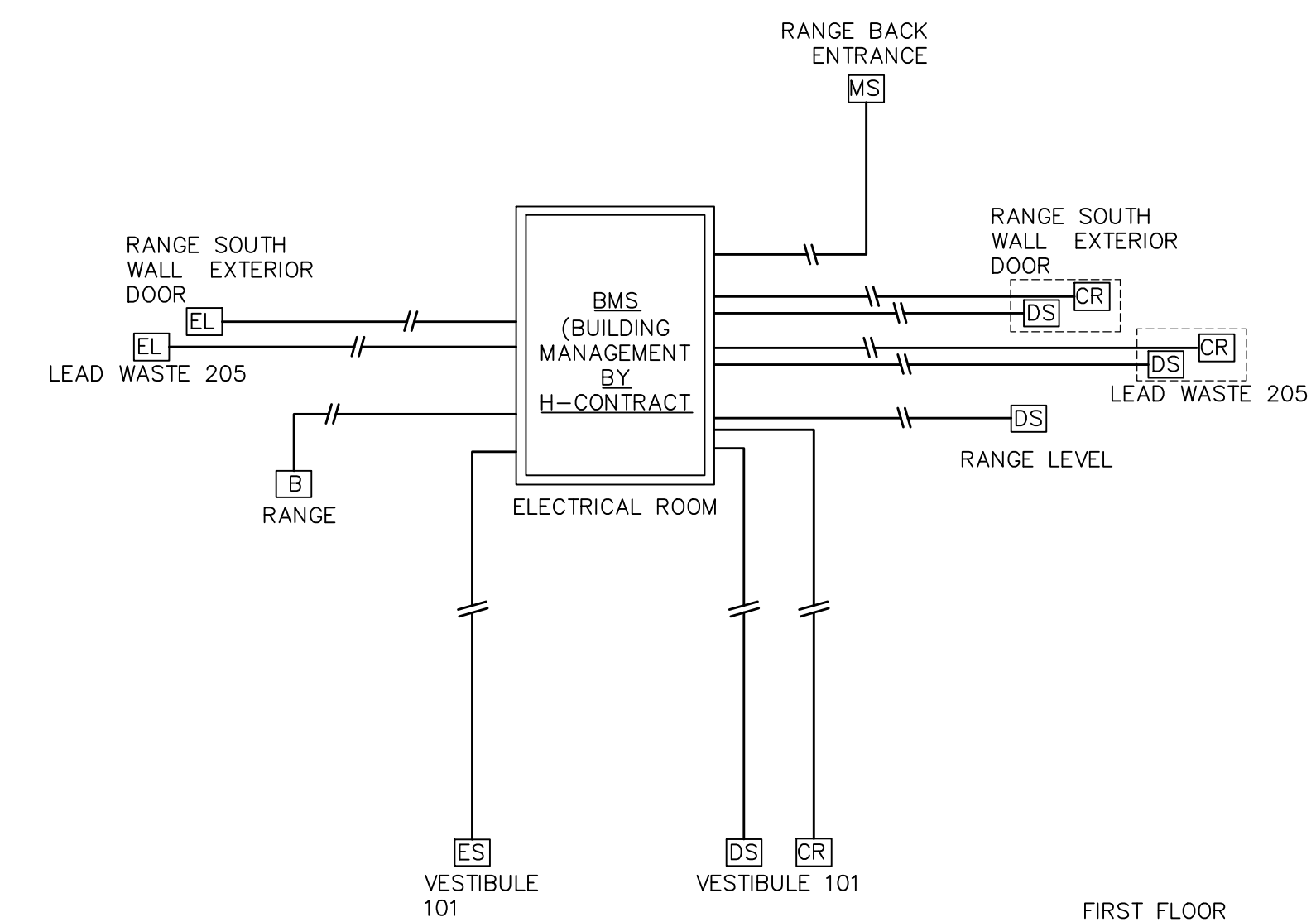
4 PHONE SINGLE LINE DIAGRAM
E-503 SCALE: NONE



5 DATA SINGLE LINE DIAGRAM
E-503 SCALE: NONE



6 TYPICAL DATA/PHONE OUTLET
E-503 SCALE: NONE



7 SECURITY SINGLE LINE DIAGRAM
E-503 SCALE: NONE

CONSULTANT

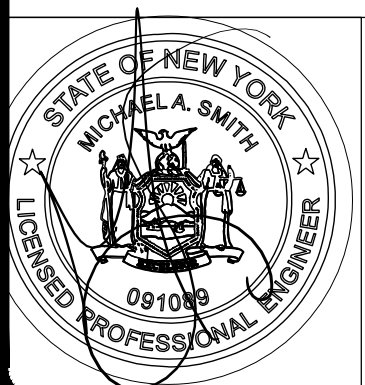


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ELECTRICAL

TITLE: PROVIDE ENCLOSED FIRING RANGE QWL SITE

LOCATION: AUBURN CORRECTIONAL FACILITY QWL SITE 3579 FRANKLIN STREET ROAD SENNETT, NY

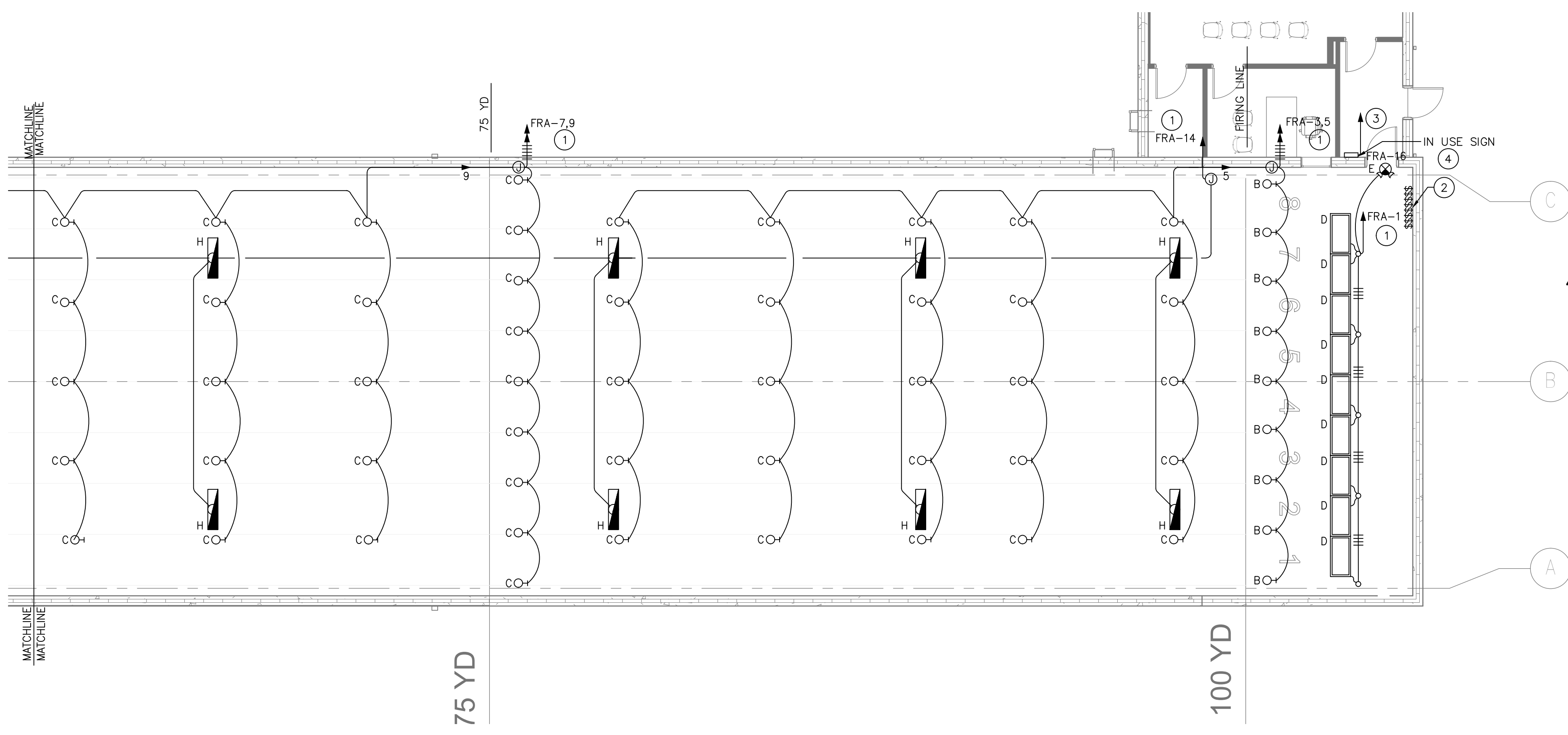
CLIENT: DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
▲	02/08/2019	ADDENDUM #1
	10/15/2018	FINAL SUBMISSION
	5/04/2018	100% SUBMISSION
	1/18/2018	65% SCHEMATIC

PROJECT NUMBER: 45444 - E
DESIGNED BY: P. BELAVUS
DRAWN BY: P. BELAVUS
FIELD CHECK: R. BLANCH
APPROVED: R. BLANCH

SHEET TITLE: ADDENDUM #1 ELECTRICAL DETAILS

DRAWING NUMBER: E-503



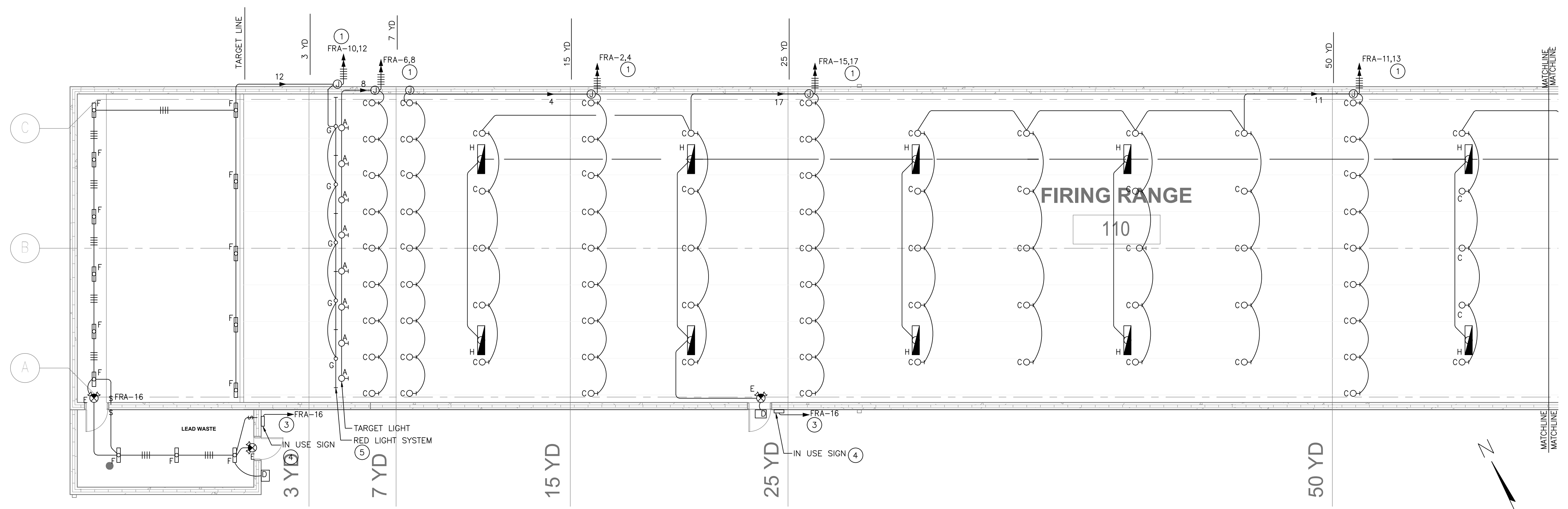
2
 E-106
FIRING RANGE FLOOR PLAN - ELECTRICAL LIGHTING
 SCALE: 1/8" = 1'-0"

- ELECTRICAL NOTES:**
- ROUTE TO PANEL VIA 0-10V WALL DIMMER SWITCH. SEE PANEL SCHEDULE FOR CONDUIT AND POWER WIRE SIZE, INCLUDED, 600V RATED LOW VOLTAGE CONTROL CONDUCTORS FOR DIMMING CONTROL.
 - PROVIDE 0-10V WALL DIMMER SWITCHES FOR RANGE LIGHTING. PROVIDE 600V RATED LOW VOLTAGE CONTROL WIRING TO LIGHTING FIXTURES PER MANUFACTURER RECOMMENDATIONS. COORDINATE WITH HVAC CONTRACTOR FOR INTERFACE WITH BMS PANEL. CONTROL WIRING FROM SWITCHES TO BMS PANEL TO BE PROVIDED BY H-CONTRACT.
 - EXTEND CIRCUIT TO PANEL AND INTERFACE WITH THE RANGE SECURITY SYSTEM TO ACTIVATE THE FLASHING RED LIGHT WHEN THERE IS A SECURITY VIOLATION AND CEASE-FIRE, A GREEN LIGHT FOR A COLD RANGE AND AN AMBER LIGHT FOR RANGE IN USE.
 - PROVIDE IN-USE SIGN WITH THREE LIGHT COLORS. ONE FLASHING RED LIGHT, ONE GREEN LIGHT AND ONE AMBER LIGHT. EACH INDIVIDUALLY CONTROLLED BY RELAY.
 - THE RED COLORED LIGHTS SHALL BE WIRED TO OPERATE DURING A NON-SHOOTING CONDITIONS. UNDER THE NON-SHOOTING CONDITION, THE RED LIGHTS WOULD BE TURNED ON THE TARGET LINE AND THE WHITE LIGHT WOULD BE TURNED OFF THE TARGET LINE AND THE RANGE FIRING LINE LIGHTING DIMMED. COORDINATE WITH HVAC CONTRACTOR.

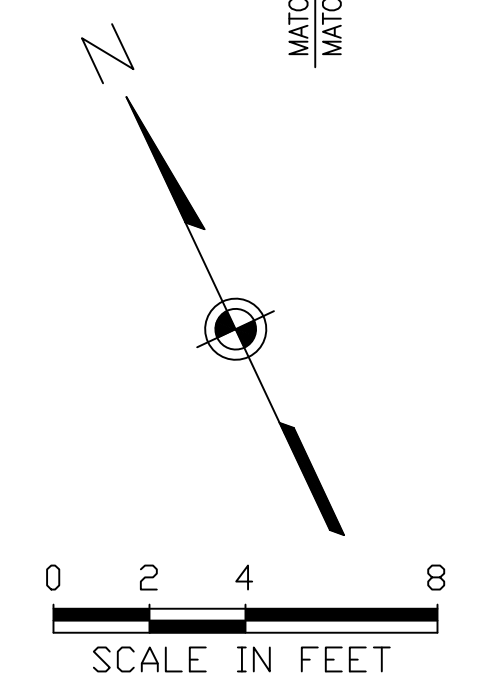
- GENERAL NOTES:**
- COORDINATE EXACT CONDUIT ROUTING WITH CONSTRUCTION CONTRACTOR. ROUTE CONDUIT THRU SLEEVE OPENINGS PROVIDED IN STRUCTURE.
 - ROUTE ALL CONDUITS SERVING DEVICES BEYOND THE FIRING LINE ON THE ROOF. PROVIDE A SINGLE ROOF FLANGE PENETRATION FOR EACH ROW OF LIGHT FIXTURES, INCLUDING THOSE BEYOND THE BULLET TRAP. PROVIDE THE PENETRATION ON THE DOWNRANGE SIDE OF THE STRUCTURAL TEE WEB FOR EACH RESPECTIVE ROW OF LIGHT FIXTURES. REFER TO DRAWING E-107 FOR LIGHT FIXTURE LOCATIONS SHOWN ON DOWNRANGE SIDE OF STRUCTURAL TEE WEBBING.
 - RANGE, FIRING LINES, READY LINE AND TARGET LINE SHALL BE INDIVIDUALLY SWITCHED AND DIMMABLE.
 - COORDINATE LIGHTING CONTROLS WITH HVAC CONTRACTOR AND INTERLOCK DOWNRANGE LIGHTING WITH THE VENTILATION SYSTEM.
 - SEAL ALL PIPES, CONDUITS AND PENETRATIONS IN THE WALLS, FLOORS, CEILING OR THRU ANY SURFACE OF THE BALLISTIC ENVELOPE OF THE RANGE.
 - REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E-107 FOR LIGHTING FIXTURE DETAILS.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
3 yard	+ 44 fc	47 fc	33 fc	1.4:1	1.3:1	
7 yard	+ 72 fc	75 fc	64 fc	1.2:1	1.1:1	
15 yard	+ 78 fc	83 fc	68 fc	1.2:1	1.1:1	
25 yard	+ 76 fc	81 fc	66 fc	1.2:1	1.2:1	
50 yard	+ 75 fc	81 fc	57 fc	1.4:1	1.3:1	
75 yard	+ 81 fc	85 fc	69 fc	1.2:1	1.2:1	
100 yard	+ 90 fc	97 fc	83 fc	1.2:1	1.1:1	
General	+ 32 fc	79 fc	16 fc	4.9:1	2.0:1	
Target Face	+ 88 fc	102 fc	77 fc	1.3:1	1.1:1	
Target Face	+ 102 fc	113 fc	93 fc	1.2:1	1.1:1	
Target Face	+ 105 fc	116 fc	96 fc	1.2:1	1.1:1	
Target Face	+ 106 fc	117 fc	96 fc	1.2:1	1.1:1	
Target Face	+ 106 fc	116 fc	96 fc	1.2:1	1.1:1	
Target Face	+ 105 fc	115 fc	95 fc	1.2:1	1.1:1	
Target Face	+ 101 fc	111 fc	93 fc	1.2:1	1.1:1	
Target Face	+ 86 fc	99 fc	76 fc	1.3:1	1.1:1	



1
 E-106
FIRING RANGE FLOOR PLAN - ELECTRICAL LIGHTING
 SCALE: 1/8" = 1'-0"



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CONTRACT: **ELECTRICAL**
 TITLE: **PROVIDE ENCLOSED FIRING RANGE QWL SITE**
 LOCATION: **AUBURN CORRECTIONAL FACILITY QWL SITE
 3579 FRANKLIN STREET ROAD
 SENNETT, NY**
 CLIENT: **DEPARTMENT OF CORRECTIONS
 AND COMMUNITY SUPERVISION**

MARK	DATE	DESCRIPTION
⚠	02/11/2019	ADDENDUM #1
	10/15/2018	FINAL SUBMISSION
	5/04/2018	100% SUBMISSION
	1/18/2018	65% SCHEMATIC

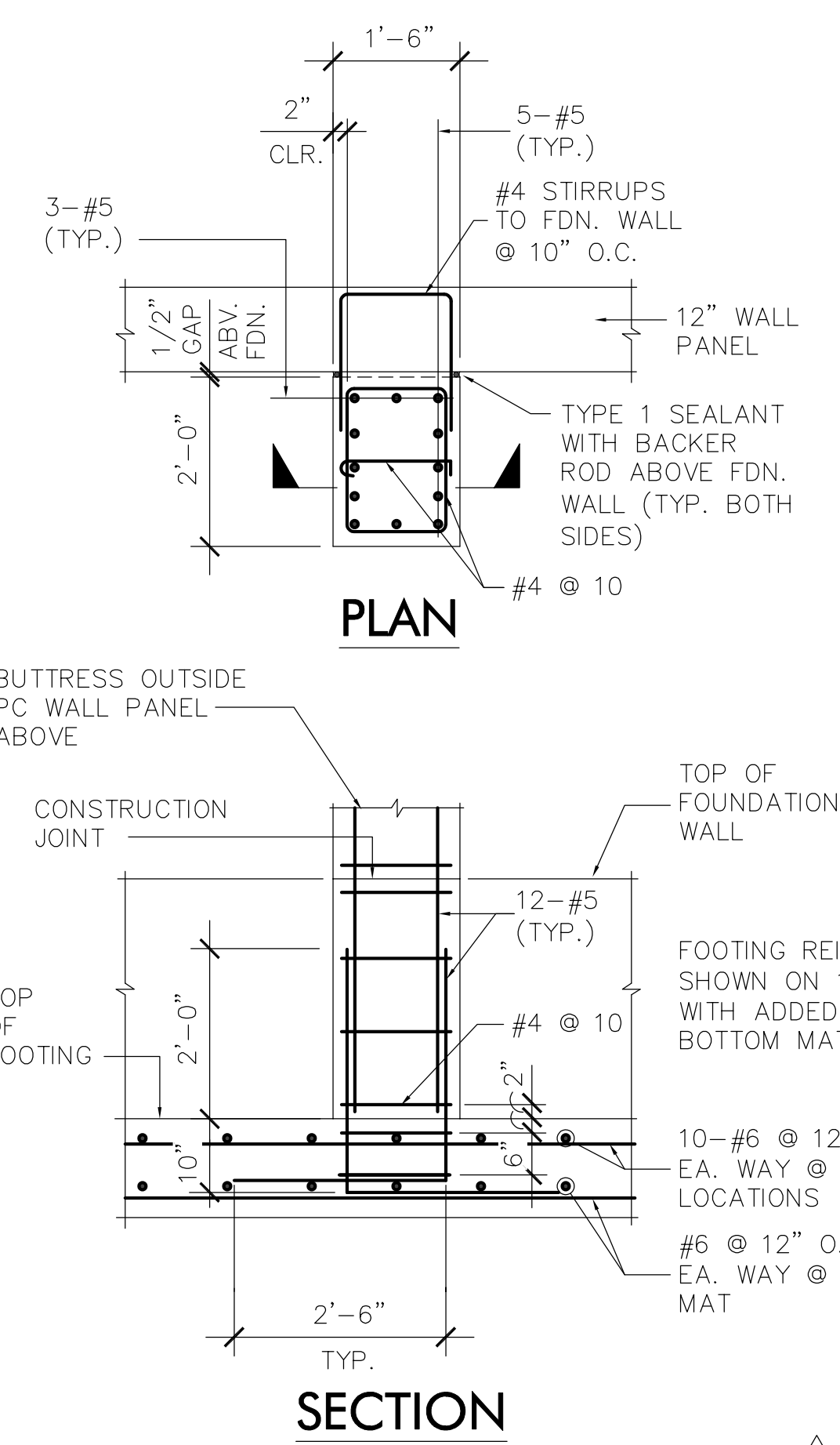
PROJECT NUMBER: **45444 - E**
 DESIGNED BY: **P. BELAVUS**
 DRAWN BY: **P. BELAVUS**
 FIELD CHECK: **P. BELAVUS**
 APPROVED: **R. BLANCH**
 SHEET TITLE: **FIRING RANGE FLOOR PLAN - ELECTRICAL LIGHTING**
 DRAWING NUMBER: **E-106**
 SHEET **83** OF **91**

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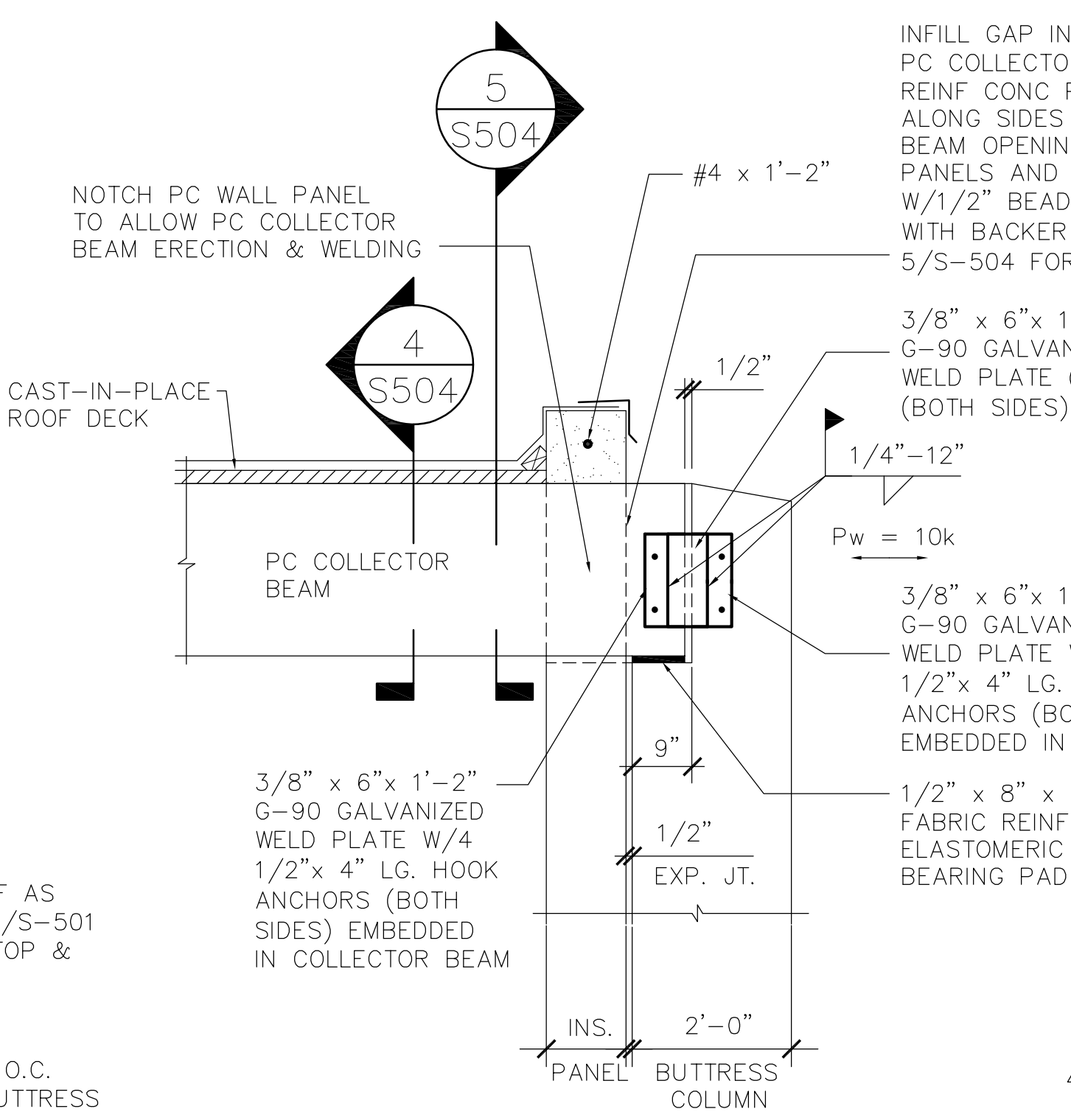
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TITLE: PROVIDE ENCLOSED FIRING RANGE QWL SITE
LOCATION: AUBURN CORRECTIONAL FACILITY QWL SITE
3579 FRANKLIN STREET ROAD
SENNETT, NEW YORK
CLIENT: DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

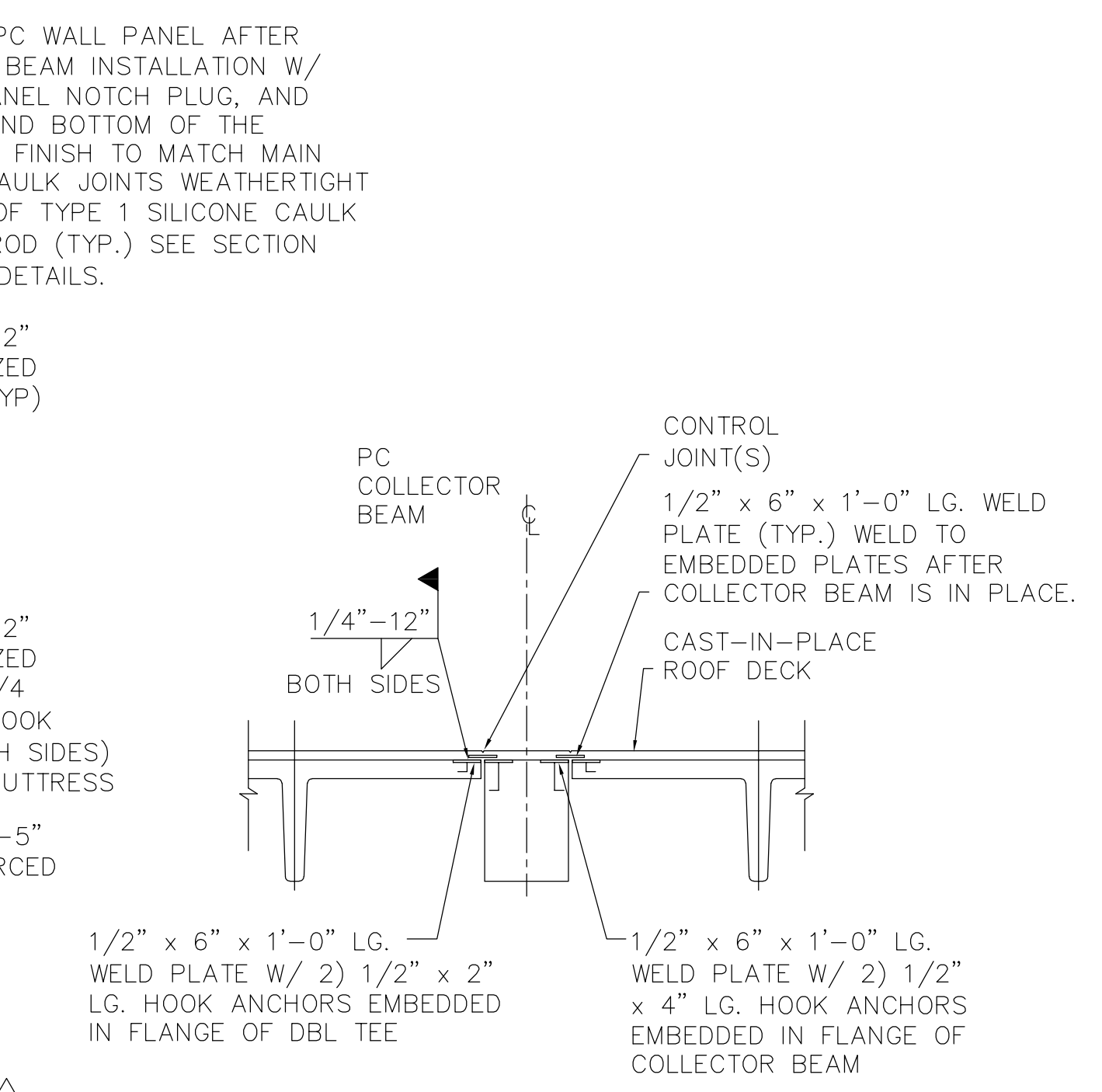


1
S504
1'-6" x 2'-0" BUTTRESS REINFORCEMENT-PLAN AND SECTION - NTS



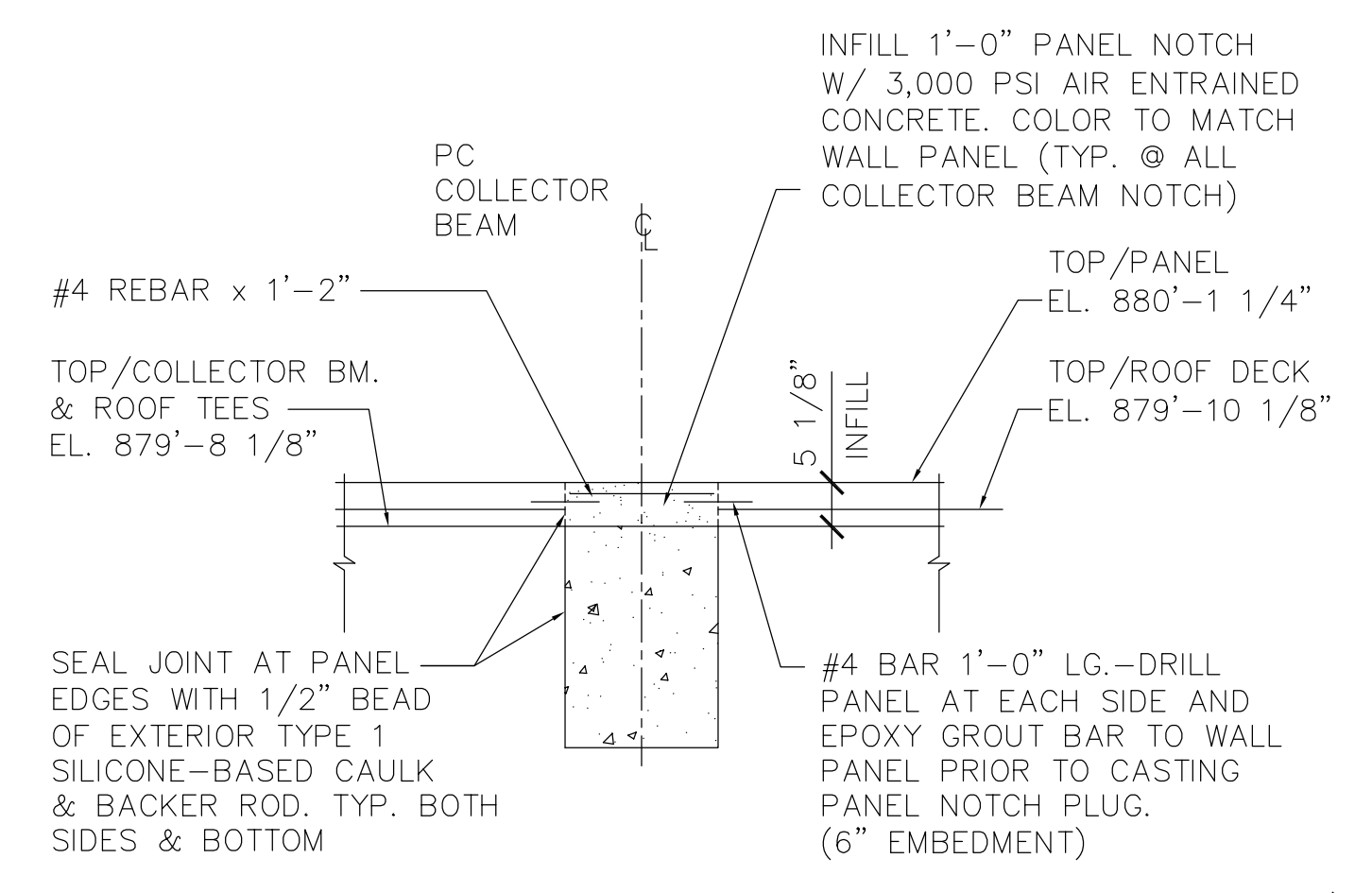
2
S504
1'-6" x 2'-0" BUTTRESS COLLECTOR BEAM CONNECTION DETAIL - NTS

CONSTRUCTION SEQUENCE:
1. PROVIDE FOUNDATIONS.
2. PROVIDE BUTTRESS.
3. PROVIDE AND SHORE ADJACENT PC WALL PANELS.
4. WELD BASE OF WALL PANEL TO TOP OF FOUNDATION WALL.
5. PROVIDE COLLECTOR BEAM.



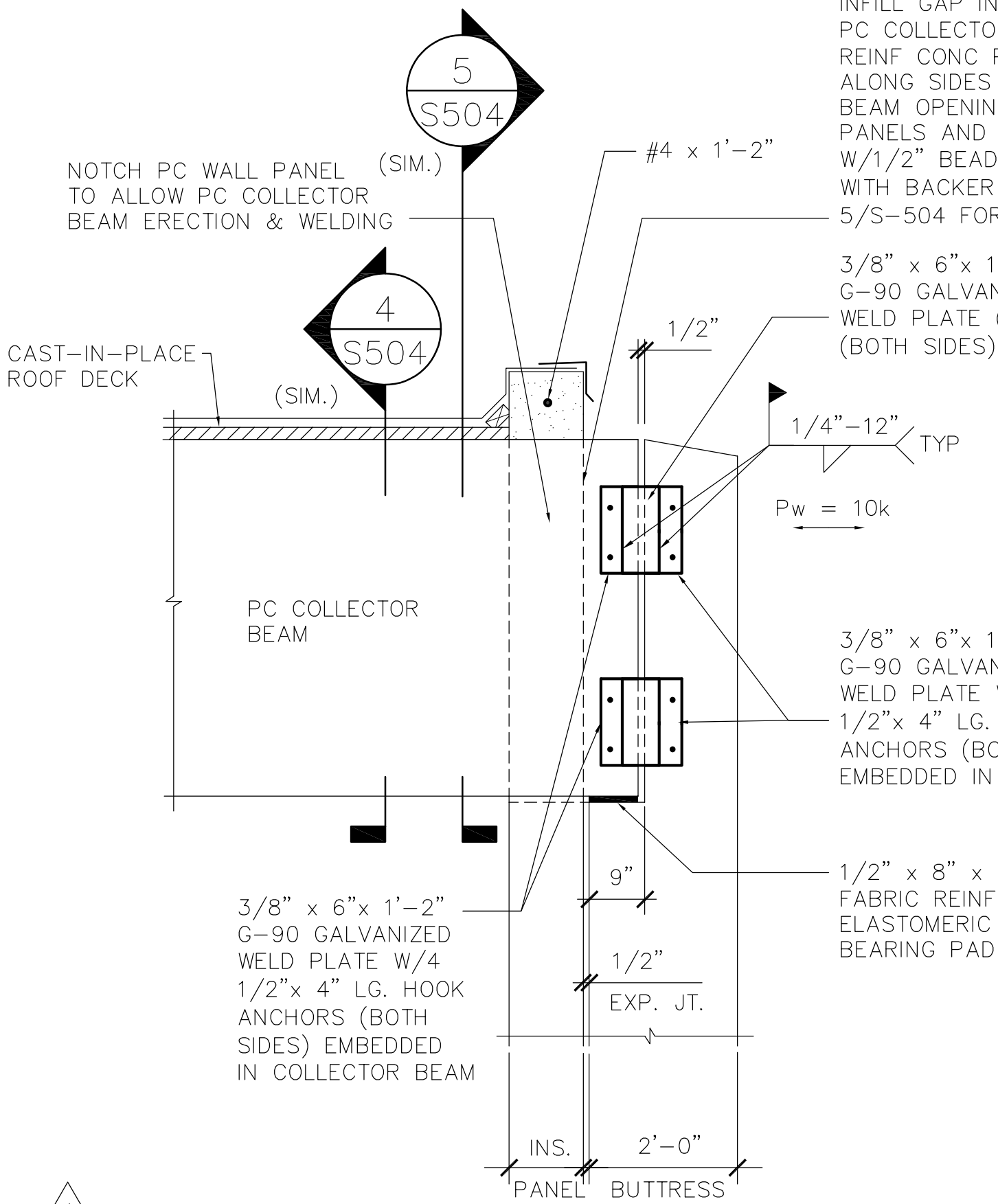
4
S504
SECTION THRU COLLECTOR BEAM & 26" DOUBLE TEES - NTS

NOTES:
1. WELD DOUBLE TEES TO EACH OTHER AT ALL OTHER ROOF JOINT LOCATIONS.
2. SPACE WELD PLATES IN DOUBLE TEES AND COLLECTOR BEAMS @ 5'-0" O.C. PER TEE MANUFACTURER.



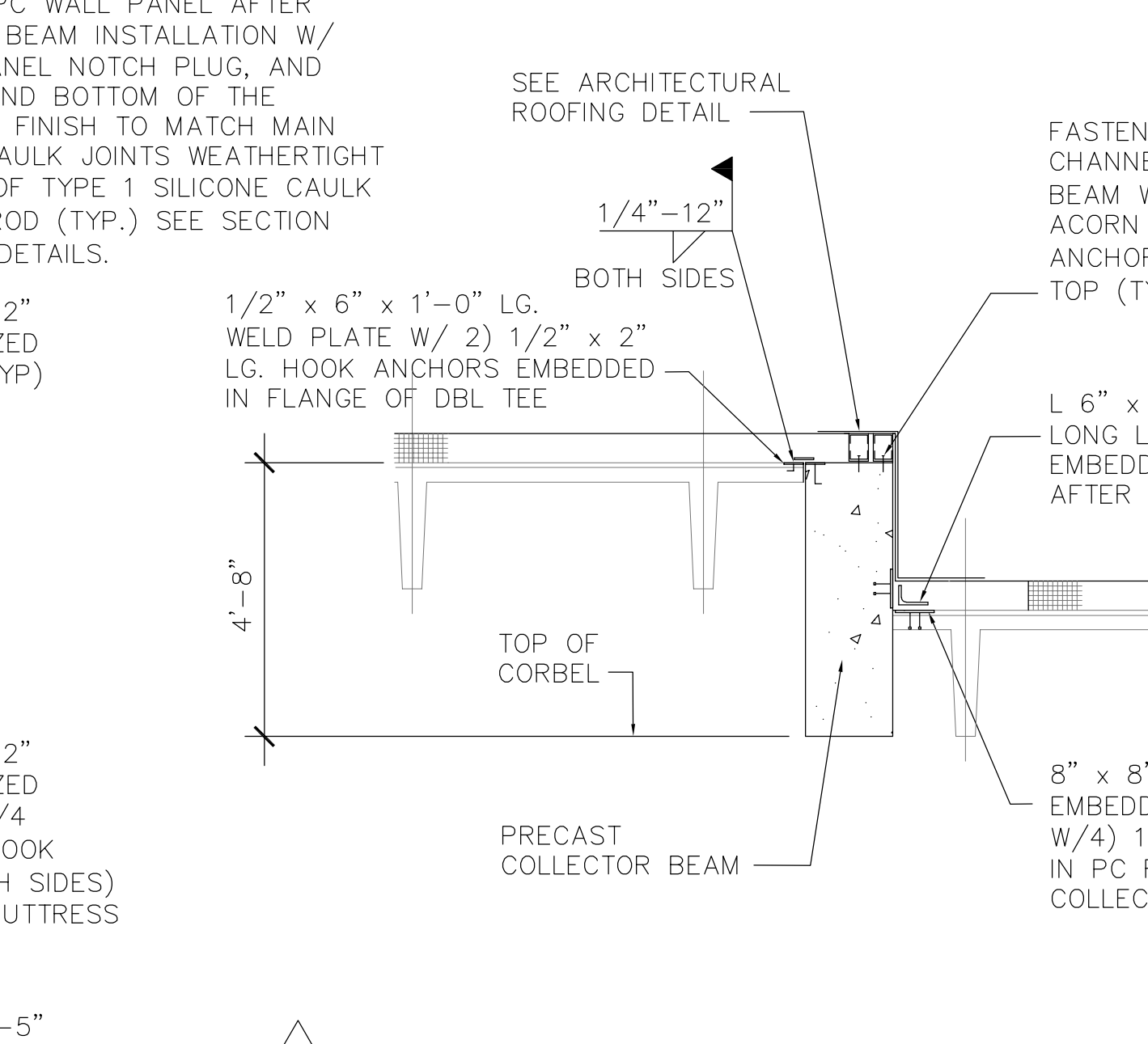
5
S504
SECTION THRU COLLECTOR BEAM AT PANEL NOTCH PLUG - NTS

NOTE:
FULL EXTENT OF 2" CAST-IN-PLACE ROOF DECK AND ROOF EDGE FLASHING NOT SHOWN FOR CLARITY.



3
S504
1'-6" x 2'-0" BUTTRESS COLLECTOR BEAM CONNECTION DETAIL @ HIGH/LOW INTERFACE - NTS

CONSTRUCTION SEQUENCE:
1. PROVIDE FOUNDATIONS.
2. PROVIDE BUTTRESS.
3. PROVIDE AND SHORE ADJACENT PC WALL PANELS.
4. WELD BASE OF WALL PANEL TO TOP OF FOUNDATION WALL.
5. PROVIDE COLLECTOR BEAM.



6
S502
TYPICAL HIGH/LOW ROOF INTERFACE TEE/PC COLLECTOR BEAM SECTION - NTS

NOTE:
1. SPACE WELD PLATES IN DOUBLE TEES AND COLLECTOR BEAMS @ 5'-0" O.C. PER TEE MANUFACTURER.
2. THE EXISTING SECTION ON S-502 IS DELETED AND REPLACED WITH THIS SECTION.

INFILL GAP IN PC WALL PANEL AFTER PC COLLECTOR BEAM INSTALLATION W/ REINF CONC PANEL NOTCH PLUG, AND ALONG SIDES AND BOTTOM OF THE BEAM OPENING. FINISH TO MATCH MAIN PANELS AND CAULK JOINTS WEATHERTIGHT W/1/2" BEAD OF TYPE 1 SILICONE CAULK WITH BACKER ROD (TYP.) SEE SECTION 5/S-504 FOR DETAILS.

NOTCH PC WALL PANEL TO ALLOW PC COLLECTOR BEAM ERECTION & WELDING

3/8" x 6" x 1'-2" G-90 GALVANIZED WELD PLATE (TYP) (BOTH SIDES)

1/2" x 4" LG. HOOK ANCHORS (BOTH SIDES) EMBEDDED IN BUTTRESS

1/2" x 8" x 1'-5" FABRIC REINFORCED ELASTOMERIC BEARING PAD

3/8" x 6" x 1'-2" G-90 GALVANIZED WELD PLATE W/4 1/2" x 4" LG. HOOK ANCHORS (BOTH SIDES) EMBEDDED IN COLLECTOR BEAM

1/2" x 6" x 1'-0" LG. WELD PLATE W/ 2) 1/2" x 2" x 4" LG. HOOK ANCHORS EMBEDDED IN FLANGE OF DBL TEE

1/2" x 6" x 1'-0" LG. WELD PLATE W/ 2) 1/2" x 2" x 4" LG. HOOK ANCHORS EMBEDDED IN FLANGE OF COLLECTOR BEAM

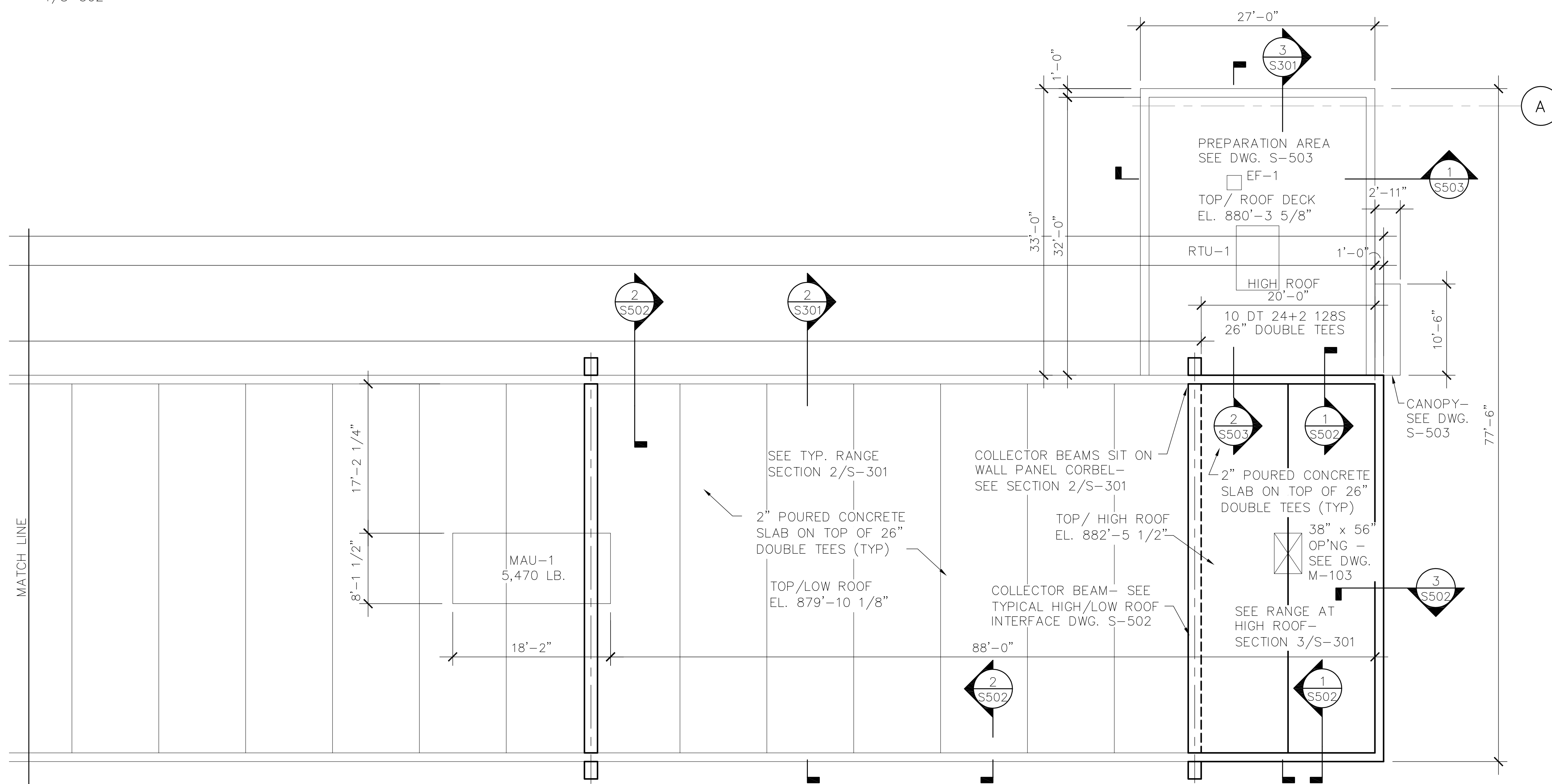
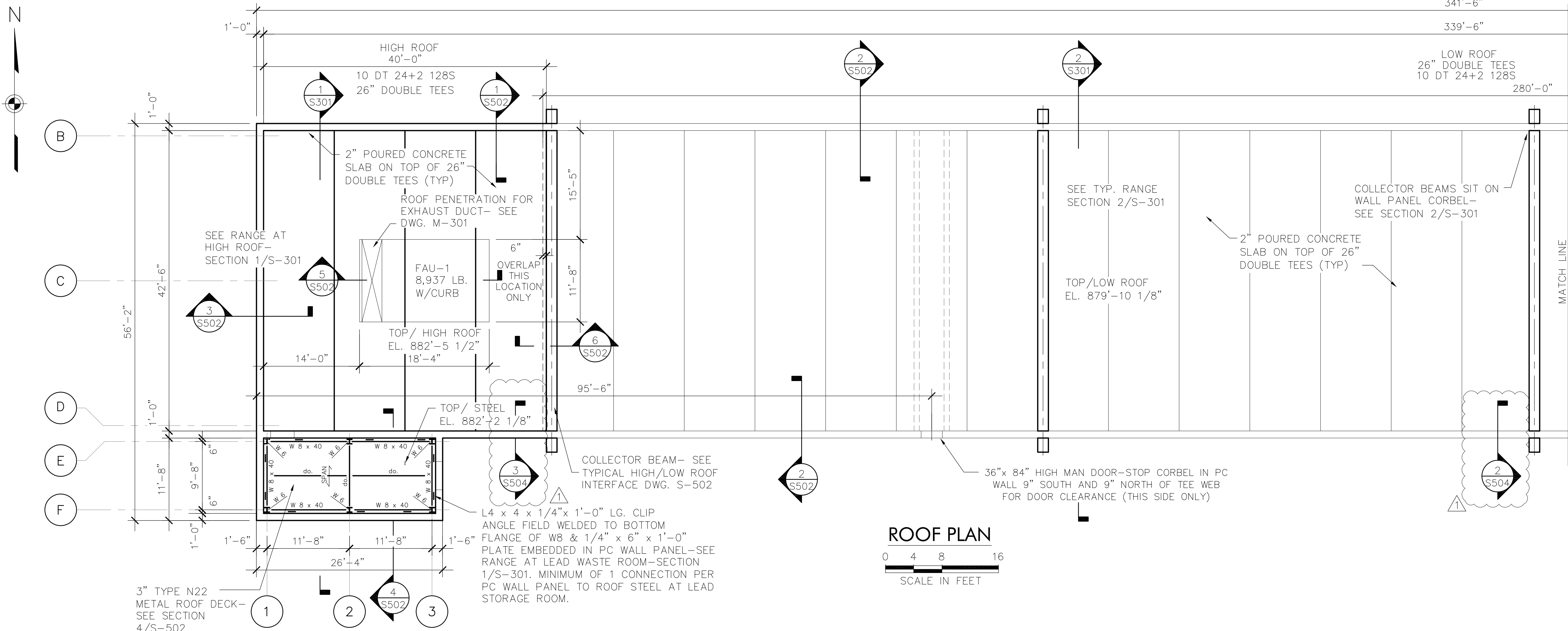
FASTEN 25 GA. FURRING CHANNELS TO COLLECTOR BEAM W/3/16" x 1 3/4" ACORN SLOTTED HWH TAPCON ANCHORS @ 16" O.C. TOP (TYP.)

SEE ARCHITECTURAL ROOFING DETAIL

TOP OF CORBEL

PRECAST COLLECTOR BEAM

8" x 8" x 1/2" EMBEDDED PLATES W/4) 1" x 2" ANCHORS IN PC ROOF TEE & PC COLLECTOR BEAM



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 QWL SITE**
 LOCATION:
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 CLIENT:
**DEPARTMENT OF CORRECTIONS
 AND COMMUNITY SUPERVISION**

MARK	DATE	DESCRIPTION
▲	2/8/2019	ADDENDUM #1
PROJECT NUMBER:	45444 - C	
DESIGNED BY:	B. HUTTEMAN	
DRAWN BY:	J. KOHLER/A. KELLY	
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	ADDENDUM #1 ROOF PLAN	
DRAWING NUMBER:	S-103	
SHEET	25	OF 91

Feb 11, 2019 - 11:02am
 J:\16-310-0295 - OGS Statewide Range Design\TO 003 - Auburn\BID SUPPORT\Addendum 1\S-103.dwg
 3/6/24 PLOT SHEET