



Office of General Services

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

ADDENDUM NO. 10 TO PROJECT NO. Q1859

**ELECTRICAL WORK
PROVIDE PERIMETER SYSTEM IP CAMERAS, FIBER
CABLES & CONTROLS,
SING SING CORRECTIONAL FACILITY,
354 HUNTER ST, OSSINING, NY.**

December 13, 2024

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.

DRAWINGS

1. Revised Drawings:
 - a. Drawing Nos. E-002 & E-505 noted "12/13/2024 ADDENDUM#10" accompany this Addendum and supersede the same numbered originally issued drawings.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

DRAWING LEGENDS

LINE-WEIGHT KEY

UNLESS OTHERWISE NOTED IN THE DRAWING, THE LINE-WEIGHT KEYS ARE AS BELOW:

LIGHT LINE-WEIGHT EQUAL OR LIGHTER THAN SHOWN INDICATES EXISTING STRUCTURES, ELEMENTS OR CONDITIONS TO REMAIN.

MEDIUM LINE-WEIGHT SHOWN REPRESENTS EXISTING ELEMENTS TO BE MODIFIED. IGNORE LINE-WEIGHT OF TEXT.

HEAVY LINE-WEIGHT EQUAL OR HEAVIER THAN SHOWN REPRESENTS NEW ELEMENTS. IGNORE LINE-WEIGHT OF TEXT.

DASHED LINE SHOWN REPRESENTS ELEMENTS TO BE REMOVED.

SITE DRAWINGS

- EXISTING CHAIN-LINK FENCE.
- EXISTING CORRECTIONAL FACILITY SECURITY WALL.

RACEWAYS/CABLES/WIRING

- NON-DETECTING FIBER OPTIC CABLE.
- EXISTING FENCE MOUNT DETECTING FIBER OPTIC CABLE. REFER TO DRAWING E-520, DETAIL#3.
- DETECTING FIBER OPTIC CABLE MOUNTED ON UPPER MOST, UNLESS OTHERWISE NOTED, EXISTING FENCE SECURITY RAZOR COIL. REFER TO DRAWING E-520, DETAIL#2.
- WALL MOUNTED CONDUIT WITH FIBER OPTIC CABLE, REFER TO DRAWING E-502 FOR DETAILS.
- UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE, REFER TO DRAWING E-521 FOR DETAIL#2.
- EXISTING UNDERGROUND CONDUIT CONNECTING EXISTING UNDERGROUND PULLBOX/JUNCTION BOX FOR FOR INSTALLATION OF FIBER OPTIC CABLE.
- EXISTING BRIDE MOUNTED SPARE CONDUIT, NOT CONNECTED.
- EXISTING BRIDE MOUNTED SPARE CONDUIT CONNECTED TO SJB-B3.
- FENCE MOUNTED CONDUIT WITH FIBER OPTIC CABLE, REFER TO DRAWING E-502 FOR DETAILS.
- FENCE MOUNTED CONDUIT WITH DC-BUS POWER CABLE, REFER TO DRAWING E-502 FOR DETAILS.

EQUIPMENT/DISTRIBUTION ENCLOSURES

- FIELD SIGNAL STATION WITH DESIGNATION "X". FSS IS A 48"x36"x12" NEMA4X PANEL, TO BE MOUNTED ON EXISTING FENCE, UNLESS OTHERWISE STATED IN THE DRAWING. REFER TO DRAWING E-505 & E-517 FOR MORE DETAILS.
- EXISTING FIELD ACCESSORY STATION (FOR POWER) WITH DESIGNATION "X". FAS IS FENCE MOUNTED 48"x36"x12" NEMA4X PANEL TO BE MODIFIED. REFER TO DRAWING E-505 & E-512 FOR MORE DETAILS. REFER TO 400 SERIES DRAWING FOR MODIFICATIONS, AND PHASING DETAILS.
- STAINLESS STEEL JUNCTION BOX, SIZE 30"x30"x24", NEMA4X
- STAINLESS STEEL JUNCTION BOX, SIZE 24"x12"x12", NEMA4X
- EXISTING JUNCTION BOX TO BE MODIFIED.
- EXISTING JUNCTION BOX TO BE MODIFIED.
- EXISTING JUNCTION BOX TO BE MODIFIED.
- EXISTING JUNCTION BOX TO BE MODIFIED.
- EXISTING JUNCTION BOX TO BE MODIFIED.
- EXISTING FENCE MOUNT LIGHTING JUNCTION BOX TO BE MODIFIED.
- SURFACE MOUNT STAINLESS STEEL JUNCTION BOX, MINIMUM SIZE 12"x 8"x 4", NEMA4X. PROVIDE ACCESSORIES FOR WALL/RAIL/POLE MOUNT AS REQUIRED.
- CEILING MOUNT JUNCTION BOX, MINIMUM SIZE 12"x12"x 8", NEMA 1. MEETING NEC FILL REQUIREMENT.
- EXISTING UNDERGROUND PULLBOX WITH DESIGNATION "X"
- FIBER SPLICE BOX, STAINLESS STEEL PANEL, SIZE 36"x36"x12", NEMA4X, SEE DRAWING E-517, DETAIL#2.
- UNDERGROUND PULLBOX, SIZE 36"x36"x12", NEMA4X, SEE DRAWING E-517, DETAIL#2.
- DUAL CAMERA POLE ARM MOUNTING BRACKET. REFER TO DRAWING E-516, DETAIL#1.
- WALL MOUNT JUNCTION BOX, MINIMUM SIZE 24"x24"x 8", NEMA 1. MEETING NEC FILL REQUIREMENT.

EQUIPMENT/DEVICES

- PTZ CAMERA STATION (CS) POLE MOUNTED ON EXISTING POLE. SEE DETAIL OF WORK ON THE POLE AND CAMERA ON DRAWING E-516.
- PTZ CAMERA STATION (CS) WALL MOUNTED ON MOUNTING BRACKET REPLACING EXISTING, SEE PHASING E-400 SERIES DRAWING. FOR MORE DETAILS
- STATIONARY CAMERA STATION (CS) WALL MOUNTED ON MOUNTING BRACKET REPLACING EXISTING, SEE PHASING E-400 SERIES DRAWING. FOR MORE DETAILS
- PTZ CAMERA STATION (CS) RAIL MOUNTED ON MOUNTING BRACKET REPLACING EXISTING, SEE PHASING E-400 SERIES DRAWING FOR MORE DETAILS.
- WALL MOUNTED OUTLET BOX WITH L14-30 RECEPTACLE

ONELINE DIAGRAM SYMBOLS

- TRANSFORMER
- CIRCUIT BREAKER (CB). CB TAG"#", WITH "X" AMPERE RATING
- GROUNDING
- EXISTING WALL DATA OUTLET.
- CENTRAL 24V NOMINAL DC POWER SUPPLY AND BATTERIES WITH NUMERAL TAG "#" DESIGNATION FOR REPLACEMENT OF EXISTING POWER SUPPLY ON EXISTING DC BUS.
- 15" DISPLAY MONITOR TAG "#" FOR MD, PS, FCS & TW, REFER DRAWING E-507, TAG#C04
- ALARM INTERFACE UNIT, REFER DRAWING E-507, TAG#C10
- CAMERA DISPLAY, TAG "#" CAMERA DISPLAY NUMBER CORRESPONDING TO CS
- CAMERA STATION, TAG "#" CAMERA STATION NUMBER. REFER TO E-101 TO E-103 FOR DETAILS
- EXTERNAL POWER MODULE. EATON CAT#BPM125AR
- EXTERNAL BATTERY MODULE. EATON CAT#9PXM08SEBM-C
- FIBER SENSOR PROCESSOR, REFER DRAWING E-507, TAG#C33
- FIBER SENSOR DEVICE, REFER DRAWING E-507, TAG#C20
- FIBER SENSOR DEVICE, REFER DRAWING E-507, TAG#C35
- FIBER SENSOR CABLE DETECTION WORKSTATION, REFER DRAWING E-507, TAG#C13
- GATE WIRELESS SENSOR PROCESSOR
- KEYBOARD VIDEO MOUSE SWITCH, REFER DRAWING E-507, TAG#C11
- KVM USER INTERFACE, REFER DRAWING E-507, TAG#C11A
- MEDIA CONVERTER, REFER DRAWING E-505, TAG#F08
- NETWORK VIDEO RECORDER, REFER DRAWING E-507, TAG#C15
- OPTICAL FIBER PATCH PANEL, REFER DRAWING E-505, TAG#F05
- OPTICAL FIBER TERMINATION RACK, REFER DRAWING E-507, TAG#C21A
- OPTICAL FIBER TERMINATION RACK, REFER DRAWING E-507, TAG#C21B
- POWER DISTRIBUTION UNIT, DESIGNATION "#" IS 1 TO 5, REFER TO DRAWING E-507
- POWER DISTRIBUTION UNIT, REFER TO DRAWING E-507.
- POWER SUPPLY, REFER DRAWING E-507, TAG#C30
- PERIMETER SECURITY WORKSTATION, REFER DRAWING E-507, TAG#C13
- PTZ CONTROL BOARD, REFER DRAWING E-507, TAG#C18
- POWER OVER ETHERNET, REFER DRAWING E-505, TAG#F07
- SECURITY ARCHIVE WORKSTATION, REFER DRAWING E-507, TAG#C29
- EXISTING TW WORKSTATION, REFER DRAWING E-507, TAG#C13
- EXISTING TW TRANSPONDERS
- UPS OUTPUT POWER DISCONNECT SWITCH. MAKE:SQUARE-D, CAT# VH223N.
- HONEYWELL MAP-DISPLAY TERMINAL, REFER DRAWING E-507, TAG#C28
- HONEYWELL INTRUSION DETECTION SERVER FOR PS/FSC, REFER DRAWING E-507, TAG#C08
- EXISTING HONEYWELL INTRUSION DETECTION SERVER FOR TW/MD, REFER DRAWING E-507, TAG#C08
- HONEYWELL ACCESS CONTROL SERVER FOR PS/FSC, REFER DRAWING E-507, TAG#C09
- EXISTING HONEYWELL ACCESS CONTROL SERVER FOR TW/MD, REFER DRAWING E-507, TAG#C09
- 28" DISPLAY MONITOR, REFER DRAWING E-507, TAG#C12
- 28" DISPLAY MONITOR, REFER DRAWING E-507, TAG#C12
- 28" DISPLAY MONITOR, REFER DRAWING E-507, TAG#C12
- 28" DISPLAY MONITOR, REFER DRAWING E-507, TAG#C12
- 28" DISPLAY MONITOR, REFER DRAWING E-507, TAG#C12
- VIDEO MANAGEMENT SYSTEM WORKSTATION, REFER DRAWING E-507, TAG#C14
- ZONE WITH DESIGNATION "#" INDICATES THE EXISTING INTRUSION DETECTION ZONE CLASSIFICATION FOR PERIMETER SECURITY, TAUT WIRE AND FSC DETECTION SYSTEM.

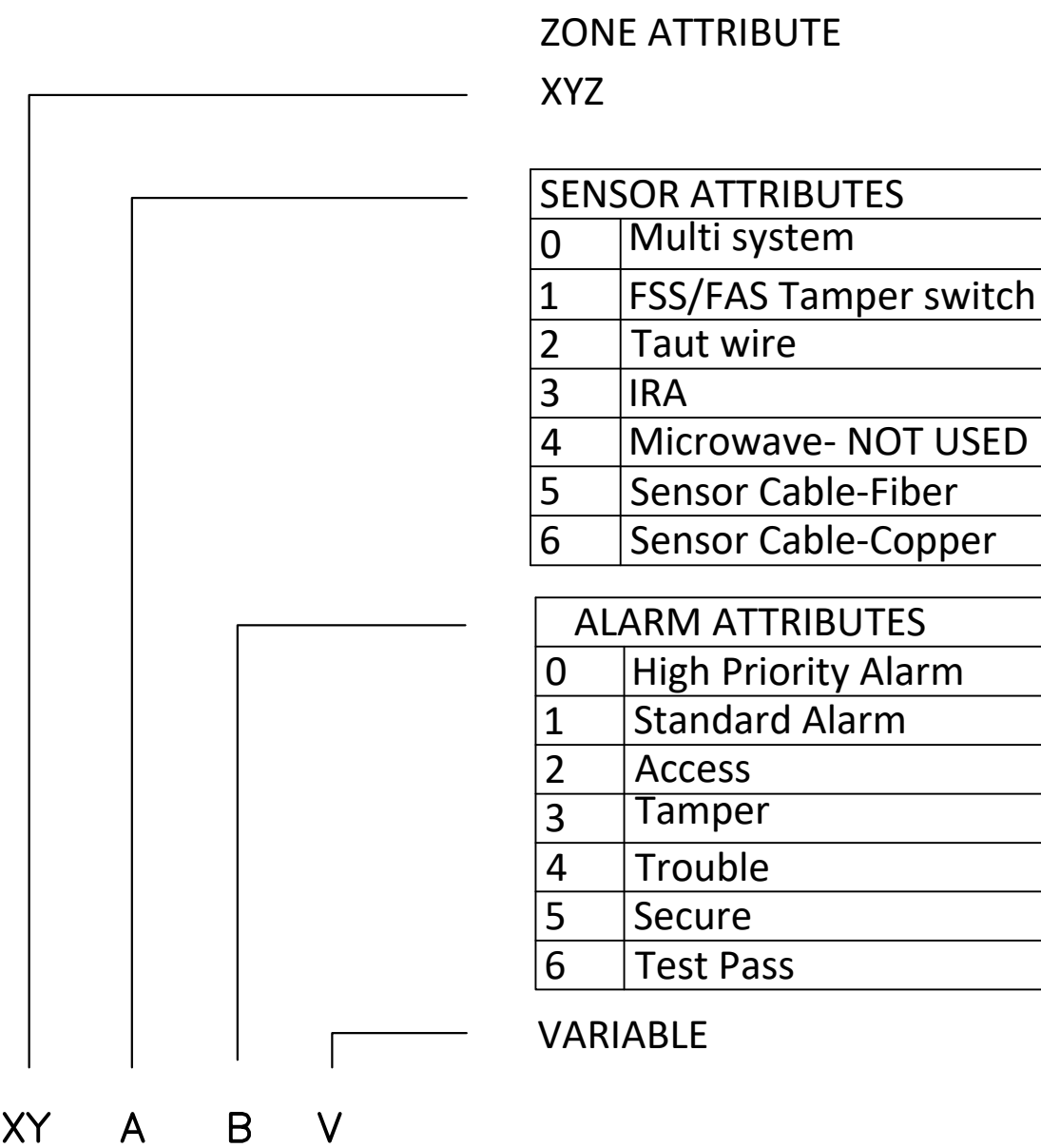
NETWORK SWITCHES

- NETWORK SWITCH, REFER DRAWING E-507, TAG#C05
- NETWORK SWITCH, REFER DRAWING E-507, TAG#C17
- NETWORK SWITCH, REFER DRAWING E-507, TAG#C16
- NETWORK SWITCH, REFER DRAWING E-507, TAG#C34
- NETWORK SWITCH, REFER DRAWING E-507, TAG#C22
- NETWORK SWITCH, REFER DRAWING E-507, TAG#C32
- NETWORK SWITCH,REFER DRAWING E-507, TAG#C23

LABELS

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE RELOCATED. IN REMOVAL DRAWING IT INDICATE REMOVAL FOR RELOCATION, AND INSTALLATION DRAWING IT INDICATE NEW RELOCATED LOCATION.
- CONDUIT, WIRE AND CABLE SCHEDULE TAG. DESIGNATION "#" REPRESENTS CONDUIT SCHEDULE, REFER TO DRAWING E-502 CONDUIT SCHEDULE, DESIGNATION "&" REPRESENTS CONDUIT SCHEDULE, REFER TO DRAWING E-502 CABLE AND WIRING SCHEDULE.
- MATERIAL SCHEDULE TAG FOR FAS & FSS PANEL. DESIGNATION "#" REPRESENTS FAS & FSS MATERIAL TAG, REFER TO DRAWING E-505 MATERIAL SCHEDULE.
- MATERIAL SCHEDULE TAG FOR MSC & EER RACK. DESIGNATION "#" REPRESENTS MSC & EER MATERIAL TAG, REFER TO DRAWING E-507 MATERIAL SCHEDULE.
- CAMERA STATION (CS) WITH DESIGNATION "#".

ALARM POINT DESIGNATION SYSTEM



CAMERA PRESET DESIGNATION

CAMERA PRESET	DESCRIPTIONS
1	CAMERA CUED FOR PRE POSITION TO ENTIRE ZONE
2	CAMERA CUED FOR PRE-POSITION TO THE NEAREST ZONE TO THE CAMERA STATION.
3	CAMERA CUED FOR PRE-POSITION TO THE FURTHEST ZONE TO THE CAMERA STATION.
6	CUSTOM CAMERA CUE PRE-POSITION AS NOTED IN THE DRAWING

ABBREVIATIONS:

- 12-F 12 FIBER FIBER OPTIC CABLE
- 24-F 24 FIBER FIBER OPTIC CABLE
- 288-F 288 FIBER FIBER OPTIC CABLE
- 1Ø 3W 120/208V DESIGNATION "Ø" IS PHASE, "W" IS WIRE & "V" IS VOLTAGE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- C CONDUIT
- CS CAMERA STATION
- DCP DIRECT CURRENT POWER OR DC BUS CONDUCTORS
- DFO OPTICAL FIBER CABLE (PERIMETER SURVEILLANCE CCTV SYSTEM)
- DS DISCONNECT SWITCH
- EER ELECTRONIC EQUIPMENT RACK
- EFC E-FIELD COAXIAL CABLE
- FAS FENCE ACCESSORY STATION ENCLOSURE
- FDT FIBER DISTRIBUTION TERMINAL
- FO FIBER OPTIC
- FSB FIBER SPLICE BOX
- FSC FIBER SENSOR CABLE SYSTEM
- FSS FENCE SIGNAL STATION ENCLOSURE
- GEP 10A 120V GROUND EQUIPMENT PROTECTOR.
- IR INFRA RED
- IRS INFRARED SYNCHRONIZATION CABLE
- KCU KEYBOARD CONTROL UNIT (USB)
- LAN LOCAL AREA NETWORK
- MC MEDIA CONVERTER
- MCC-I MULTICONDUCTOR CABLE (INFRARED DETECTION SYSTEM)
- MCC-T MULTICONDUCTOR TAUT FENCE SYSTEM CABLE
- MD-D MOTION DETECTION DISPLAY
- MD-ST MOTION DETECTOR WORKSTATION, REFER DRAWING E-507, TAG#C13
- MFO MULTIMODE FIBER OPTICAL CABLE
- MNRR METRO NORTH RAILROAD
- MPX PERIMETER MULTIPLEX CABLE
- MSC MAIN SECURITY CONSOLE
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- OFPP OPTICAL FIBER PATCH PANEL
- OFTR OPTICAL FIBER TERMINATION RACK
- PAC P.A. SYSTEM CABLE
- PB PULL BOX
- PDU POWER DISTRIBUTION UNIT
- PIDS PERIMETER INTRUSION DETECTION SYSTEM
- PWS POWER SUPPLY
- PS PERIMETER SECURITY SYSTEM COMPRISING OF IR, SC, WST & RST
- PSCPU PSMS CENTRAL PROCESSING UNIT(V5/V6)
- PSCPU-PWS POWER SUPPLY, REFER DRAWING E-507, TAG#C30
- PSMS PERIMETER SECURITY MULTIPLEX SYSTEM
- PS-PRINTER PERIMETER SECURITY MULTIPLEX SYSTEM PRINTER
- PTZ PAN TILT ZOOM
- RMC RIGID METAL CONDUIT
- SDU EXISTING SIGNAL DISTRIBUTION UNIT
- SFF SMALL FORM FACTOR WORKSTATION
- SFP SMALL FORM PLUGGABLE NETWORK TRANCEIVERS
- SJB SIGNAL JUNCTION BOX
- SPD SURGE PROTECTION DEVICES
- TS TAMPER SWITCH
- TVPCPU EXISTING CCTV CENTRAL PROCESSING UNIT
- TW TAUT WIRE SYSTEM (CONTROL UNIT/PROCESSOR/DEVICES)
- TWMS TAUT WIRE MULTIPLEX SYSTEM
- TW-PRINTER (TAUT WIRE) SECURITY MULTIPLEX SYSTEM PRINTER
- TYP TYPICAL
- VCR EXISTING VIDEO RECORDING DEVICE
- UHS 1500 VINDICATOR TRANSPONDER
- UPS UNINTERRUPTIBLE POWER SUPPLY
- VD VIDEO DECODER
- VDCPS DIRECT CURRENT POWER SUPPLY WITH VOLTAGE INDICATED
- VDO VIDEO CABLE
- WP WEATHER PROOF
- ZOP EXISTING ZONE OUTPUT PROCESSOR

ENERGY CODE NOTE:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THE DRAWINGS AND SPECIFICATIONS, WHICH COMPRISE THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT, ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

UNIFORM CODE NOTE:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THE DRAWINGS AND SPECIFICATIONS, WHICH COMPRISE THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT, ARE IN COMPLIANCE WITH THE 2020 UNIFORM 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 PERIMETER SYSTEM IP CAMERAS
FIBER OPTIC CABLES & CONTROLS

LOCATION:
SING SING CORRECTIONAL FACILITY,
354 HUNTER STREET
OSSINING, NY 10562-5498

CLIENT:
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

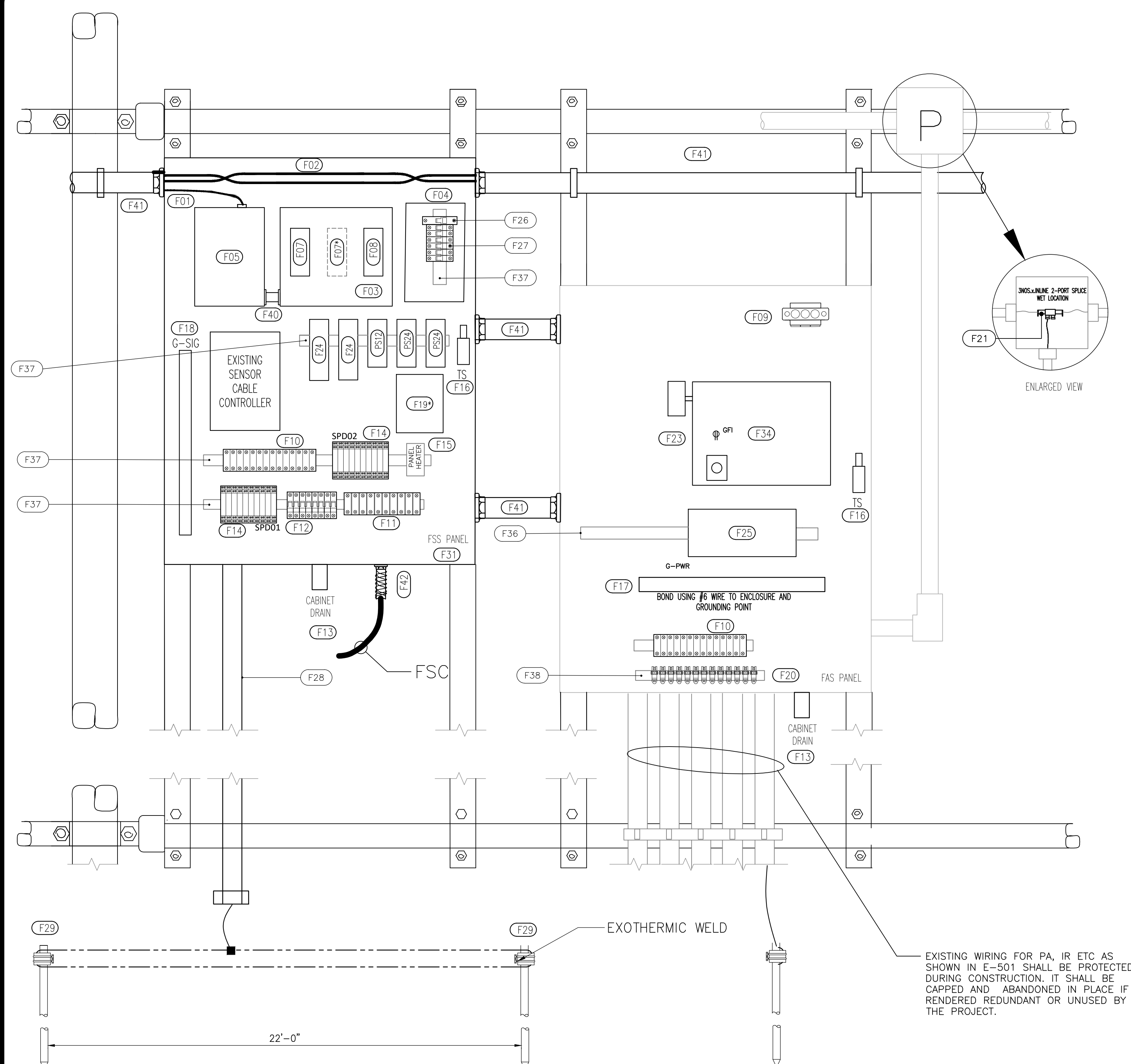
MARK	DATE	DESCRIPTION
10	12/13/2024	ADDENDUM#10
	11/21/2024	ADDENDUM#8
	8/12/2024	BID DOCUMENT
PROJECT NUMBER:	Q1859-E	
DESIGNED BY:	S. KANARA	
DRAWN BY:	S. KANARA	
FIELD CHECK:		
APPROVED:	S. KANARA	

SHEET TITLE:

LEGEND AND
GENERAL NOTES

DRAWING NUMBER:

E-002



MATERIAL SCHEDULE

FAS/FSS TAG	SPECIFICATION SECTION	DESCRIPTION	MAKE & MODEL OR EQUALS	MOUNTING	ADDITIONAL COMMENTS	SPARE PART PROJECT TOTAL
F01	271524	12 FIBER LOOSE TUBE OPTIC CABLE				
F02	271524	FEED-THROUGH FO CABLE				
F03	281602	14"Wx12"Hx8"D, NON-METALLIC NEMA 4X ENCLOSURE			USE WATERTIGHT COMPRESSION FITTING KIT FOR ALL CABLE ENTRY	
F04		10"Wx12"Hx8"D, METALLIC NEMA 1 ENCLOSURE WITH CONDUCTIVE PANEL				
F05	271524	OPTICAL FIBER PATCH PANEL (OFPP), NEMA 4X	CORNING, CAT#EDC-2P-NH WITH (1) PIGTAIL CASSETTE CAT#CCH-CS12-A9-POORE	SURFACE MOUNT	USE WATERTIGHT COMPRESSION FITTING KIT FOR ALL CABLE ENTRY	
F06		Cu#6 INSULATED GROUND JUMPER KIT				
F07	282301	POWER OVER ETHERNET (POE)-MID-SPAN, POWER INJECTOR.	AXIS, CAT#T8154	SURFACE IN NEMA4X ENCLOSURE	USE WATERTIGHT COMPRESSION FITTING KIT FOR ALL CABLE ENTRY. REFER TO E-510 FOR 2ND POE DEVICE.	
F08	282301	MEDIA CONVERTER (MC)	COMNET, CNMC25FP	SURFACE IN NEMA4X ENCLOSURE	USE WATERTIGHT COMPRESSION FITTING KIT FOR ALL CABLE ENTRY	4
F09	262726	3-PORT MOUNTABLE PRE-INSULATED CONNECTOR #4	NSI, CAT#IPLM4-4	SURFACE MOUNT		
F10	262726	FEED THRU TERMINAL BLOCK, #10 AWG MAX		DIN RAIL MOUNT		
F11	262726	FEED THRU TERMINAL BLOCK, #1/0 AWG MAX		DIN RAIL MOUNT		
F12	262814	CIRCUIT BREAKER (B01)	EATON, CAT#FAZ-B10-2-NA	DIN RAIL MOUNT		4
F13	281602	PANEL DRAIN	HOFFMAN, H2OMIT VENT DRAIN, STAINLESS STEEL, CAT#AVDR45S4	PANEL MOUNT		4
F14	281613	SIGNALING CIRCUIT SURGE PROTECTION (SPD01, SPD02)	DITEK, CAT#DTK-DR368			10
F15	281602	150W SELF REGULATING PANEL HEATER	HOFFMAN, 60715-224	DIN RAIL MOUNT		4
F16	281602	ROTARY TAMPER SWITCH	EATON, CAT#E50a11	PANEL MOUNT		4
F17	281602	HORIZONTAL GROUNDING BAR (G-PWR)	NVENT HOFFMAN, CAT#DG19	PANEL MOUNT		
F18	281602	VERTICAL GROUNDING BAR (G-SIG)	NVENT HOFFMAN, CAT#DGT8420	PANEL MOUNT		
F19	281613	TRANSPONDER (UHS 1500)	VINDICATOR, CAT#UHS 1500 WITH AES-1500 NETWORK DEVICE, WIRE/RJ45 VERSION	SURFACE MOUNT	14 SENSOR INPUT, 4 SENSOR OUTPUT, 2 RS45 NETWORK PORT	2
F20	281602	EMC SHIELD CLAMPS (G-W)	ICOTEK CORP., CAT#SF5/SKL	DIN RAIL MOUNT	MATCH CABLE SHIELD DIAMETER	
F21	260519	INLINE 2-PORT SPLICE	POLARIS, CAT#ISPBS2/0		#14 TO #2/0 AWG, 2 PORT, WET LOCATIONS	
F22	281602	POWER CABINET	nVENT HOFFMAN, CAT#A10N104		ALL ATTACHED CONDUITS OR MC CABLE GROUND SHALL BE BONDED TO GROUND	
F23	281613	LINE SIDE SURGE PROTECTIVE DEVICES (SPD03)	EATON, CAT#ASZHG60C200			10
F24	282301	POE ETHERNET SURGE PROTECTOR (SPD04)	DITEK, CAT#DTK-MRJPOES, DTK-DRK	DIN RAIL MOUNT		10
F25	281602	500VA UNINTERRUPTABLE POWER SUPPLY (UPS-FSS)	EATON, CAT#DIN500AC	DIN RAIL MOUNT		2
F26	262817	GROUND FAULT EQUIPMENT PROTECTOR (GEP)	ALLEN-BRADLEY, CAT#1492-MCEA130	DIN RAIL MOUNT		4
F27	262817	CIRCUIT BREAKER (B02)	EATON, CAT#FAZ-B10-1-NA, ZSVUL16-1P-1TE6SP & ZEK35-UL	DIN RAIL MOUNT		4
F28		3/4" RSC W/1-Cu#2 GROUND				
F29		3/4" X 10' Cu GROUND ROD				
F30		SUPPORT CHANNEL STRUTS WITH CLAMPS				
F31	281602	FSS- 48"X36"X12" NEMA4X TYPE316L STAINLESS STEEL	HOFFMAN, CAT#A48H3612SS6LP, A48P36G			
F32	281602	PANEL DOOR GROUND BONDING WIRE KIT (G-S)				
F33	260531	WEATHER PROOF STAINLESS STEEL CONDUIT HUB FOR NEMA4X	HUBBELL, MODEL WH SERIES		MATCH CONDUIT SIZE	
F34	281602	TRANSFORMER W/DISCONNECT (ES-TR)	SQUARED, CAT#9070SK1000G1D1G13P1	PANEL MOUNT	240 X 480V/120V	1
F36	281602	12V POWER SUPPLY 30W (PS12) 24V POWER SUPPLY 30W (PS24)	ABB, CAT#CP-E 12/2.5 ABB, CAT#CP-E 24/1.25	DIN RAIL MOUNT DIN RAIL MOUNT		
F37	281602	35X15MM DIN RAIL				
F38	281602	35X7.5MM DIN RAIL				
F39	281602	VERTICAL GROUNDING BAR	NVENT HOFFMAN, CAT#DG36	PANEL MOUNT		
F40		2" NON-METALLIC DUCT				
F41		2" RMC				
F42		FOR FIBER SENSOR CABLE ENTRY TO PANEL, INSTALL METALLIC RIGID STEEL LIQUIDTIGHT CABLE SEAL AND STRAIN RELIEF FOR TRANSITIONING FROM CONDUIT INSTALLATIONS TO FIBER SENSOR CABLE FREE RUN. PROVIDE SUPPORT TO MAINTAIN BENDING RADIUS FOR THE CABLE. MAKE: HUBBELL, CAT#SHC1023SS WITH CABLE GRIP. (CHANGE SIZE AS PER FSC DIAMETER).				

1 FENCE ACCESSORY STATION TYPICAL LAYOUT
SCALE: N.T.S

GENERAL NOTES:

- REFER TO PHASING DETAILS IN DRAWING E-401, E-402, E-403, E-404, E-405, E-406 & E-407.
- LAYOUT FOR FAS DEVICES ARE DEPENDENT ON EXISTING DEVICES NOT REMOVED BY PROJECT AND SHALL REMAIN. LAYOUT OF ALL DEVICES SHALL BE ADAPTED BY REARRANGING EQUIPMENTS AS NEEDED TO MEET SYSTEM NEEDS.
- ALL CABLING SHALL BE ENCLOSED IN WIRING DUCT, MAKE: PANDUIT TYPE-H, WITH HINGED COVER. POWER AND SIGNAL CABLES SHALL BE SEPARATED BY EMC SHIELD OR IN SEPARATE WIRING DUCTS. WIRING DUCT SHALL MEET OR EXCEED FILL REQUIREMENT.
- PLUG ALL OPENING AND CONDUIT ENTRY IN EXISTING FAS PANEL TO MEET NEMA4X RATING.
- PROVIDE COMPATIBLE CABLE GLANDS/CONDUIT SEAL FOR ALL CONDUITS ENTERING THE PANEL TO MEET AT LEAST IP55 RATING.
- INSTALL WEATHER PROOF STAINLESS STEEL CONDUIT HUB (F33) FOR ALL ENTRIES INTO NEMA4X ENCLOSURES.
- THE LOCATION OF THE CONDUIT ENTRY INTO THE PANEL SHOWN IN THIS DRAWING IS FOR REFERENCE ONLY. DURING ACTUAL INSTALLATION, THE FINAL PLACEMENT OF THE CONDUIT ENTRY POINT SHALL BE DETERMINED BASED ON SPECIFIC SITE CONDITIONS, INCLUDING THE AVAILABLE SPACE REQUIRED FOR PROPER INSTALLATION. RE-ADJUST DEVICES INSTALLATION IN PANEL TO MATCH CONDUIT INSTALLATION.
- INSTALL EXPANSION JOINTS ON PANEL AS SHOWN IN DRAWING E-517, , DETAIL#1.
- INSTALL (2NOS) 2" CONDUIT FOR ONE EACH FOR FIBER & DC BUS POWER, WHERE CALLED FOR IN THE DRAWING, REFER DRAWING E-517, DETAIL#1
- PA SYSTEM ARE EXISTING AND WILL REMAIN. ANY PA WIRING INSTALLED IN FAS SHALL BE MAINTAINED.

ENERGY CODE NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THE DRAWINGS AND SPECIFICATIONS, WHICH COMPRISE THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT, ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

UNIFORM CODE NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THE DRAWINGS AND SPECIFICATIONS, WHICH COMPRISE THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT, ARE IN COMPLIANCE WITH THE 2020 UNIFORM 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 PERIMETER SYSTEM IP CAMERAS
FIBER OPTIC CABLES & CONTROLS

LOCATION:
SING SING CORRECTIONAL FACILITY,
354 HUNTER STREET
OSSINING, NY 10562-5498

CLIENT:
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
10	12/13/2024	ADDENDUM#10
	11/21/2024	ADDENDUM#8
	8/12/2024	BID DOCUMENT
PROJECT NUMBER:	Q1859-E	
DESIGNED BY:	S. KANARA	
DRAWN BY:	S. KANARA	
FIELD CHECK:		
APPROVED:	S. KANARA	
SHEET TITLE:	PERIMETER SECURITY FAS & FSS BOX DETAILS	
DRAWING NUMBER:	E-505	
SHEET 22	OF 38	