

GENERAL NOTES:

- SECURITY CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATING ACCESS CONTROL SYSTEM. UNLESS OTHERWISE NOTED, ALL MATERIAL SHALL BE NEW AND SHALL BE FURNISHED, INSTALLED, AND WIRED AS PART OF THE SECURITY CONTRACTOR'S SCOPE OF WORK.
- THESE DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE COMPLETED. CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND FINISH CONDITIONS AFFECTING THIS WORK, AND INSTALL ACCORDINGLY.
- THESE DRAWINGS UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE DO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULLFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT WITH CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS FROM ALL TRADES.
- CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR SECURITY WORK, WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBTAIN FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.
- DRAWINGS ARE DIAGRAMMATIC AND CERTAIN SPECIALITIES ARE NOT SHOWN HOWEVER, THEY SHALL BE PROVIDED AS REQUIRED. ALL MEASUREMENTS SHALL BE DONE IN THE FIELD.
- PRIOR TO BID, CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE.
- THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE RULES, CODES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, THE AHJ, AND OWNER'S STANDARDS.
- SECURITY CONTRACTOR SHALL SECURE ALL PERMITS, PAY ALL FEES, AND ARRANGE FOR ALL INSPECTIONS.
- KEEP PREMISES FREE FROM RUBBISH, AND REMOVE RUBBISH FROM SITE.
- FURNISH PRODUCT CUTSHEETS, AND SHOP DRAWINGS FOR APPROVAL PRIOR TO PURCHASE OF THE EQUIPMENT. FURNISH SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL BY SECURITY DESIGNER PRIOR TO PURCHASE OF CABLING, EQUIPMENT, AND DEVICES. THE SECURITY CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING AND/OR REPLACING ANY MATERIALS THAT WERE NOT APPROVED AS PART OF THE SUBMITTAL PROCESS.
- PROVIDE ALL CUTTING REQUIRED FOR THIS WORK. ALL PAINTING AND PATCHING SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.
- THE TERMS "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "CONTRACTOR" SHALL MEAN SECURITY CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CONDUITS, RACEWAYS, PATHWAYS, AND CHASES WITH OTHER TRADES PRIOR TO THE FABRICATION AND INSTALLATION.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER EQUIPMENT ABOVE AND BELOW CEILING.
- COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING MOUNTED OR ABOVE CEILING MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT AND OTHER CEILING MOUNTED EQUIPMENT.
- THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES, SLEEVES, OPENINGS AND CONDUITS UTILIZED FOR THE PLACING OF SECURITY CABLING WITH APPROVED FIRESTOPPING PRODUCTS AND ACCORDING TO LOCAL, STATE AND NATIONAL CODES. MATERIALS IN THE CABLE PATHWAY SHALL BE RE-ENTERABLE MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING TO ATTENTION OF THE SECURITY DESIGNER ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK. PRIOR TO SUBMISSION OF THE PRICE.
- CONDUIT SIZES SHOWN ON THE SECURITY DRAWINGS ARE TYPICAL AND ARE SUBJECT TO CHANGE BASED ON DOOR TYPES, AND HARDWARE CONFIGURATIONS.
- CABLE TYPES SHOWN ON THE SECURITY DRAWINGS ARE TYPICAL AND ARE SUBJECT TO CHANGE BASED ON DOOR HARDWARE AND DEVICE TYPE.

SECURITY SYSTEM RACEWAY NOTES:

- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RACEWAYS FOR SECURITY CABLING, INCLUDING CONDUITS WITH PULL STRINGS, FITTINGS, SURFACE RACEWAYS, BACK BOXES, UNISTRUT/THREADED ROD, OUTLET BOXES, FLOOR BOXES, PULL BOXES, EXCAVATION, DEMOLITION, CUTTING AND PATCHING, SEALING, ETC. REQUIRED FOR THIS WORK. REFER TO THOSE RESPECTIVE TRADE DOCUMENTS FOR SPECIFIC REQUIREMENTS RELATED TO SIZES, ROUTING, LOCATIONS AND OTHER REQUIREMENTS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR PROVIDING THE LOW VOLTAGE SECURITY CABLE SHALL PROVIDE ALL J-HOOK CABLE SUPPORTS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK/REQUIREMENTS WITH THE SECURITY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ANY AND ALL ADDITIONAL LABOR AND MATERIALS PER THE SECURITY DRAWINGS AND/OR CALL FOR IN THEIR WRITTEN SPECIFICATIONS.
- ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM AS OUTLINED IN THE CONTRACT DOCUMENTS, THE NATIONAL ELECTRICAL CODE AND WITH ALL APPLICABLE LAWS, CODES, REGULATIONS, AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK.

CAT 6 CABLE NOTES:

- STRUCTURED CABLE CONTRACTOR SHALL FURNISH AND INSTALL ALL CATEGORY 6 CABLE FOR THE SECURITY IP CAMERAS UNLESS OTHERWISE NOTED. SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING DATA OUTLET LOCATIONS FOR THE IP CAMERAS AND FINAL CONNECTIVITY REQUIREMENTS WITH THE STRUCTURED CABLE CONTRACTOR AND DUKE ENERGY TELECOMMUNICATIONS DEPARTMENT.
- STRUCTURED CABLE CONTRACTOR SHALL FURNISH AND INSTALL ALL CATEGORY 6 CABLE FOR NETWORK CONNECTIVITY TO THE ACCESS CONTROL PANELS. COORDINATE CONNECTION WITH SECURITY CONTRACTOR AND DUKE ENERGY TELECOMMUNICATIONS.
- MOTOROLA SOLUTIONS IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CAT 6 PATCH CABLES FROM THE PATCH PANELS TO THE VIDEO MANAGEMENT SYSTEM POE SWITCHES.

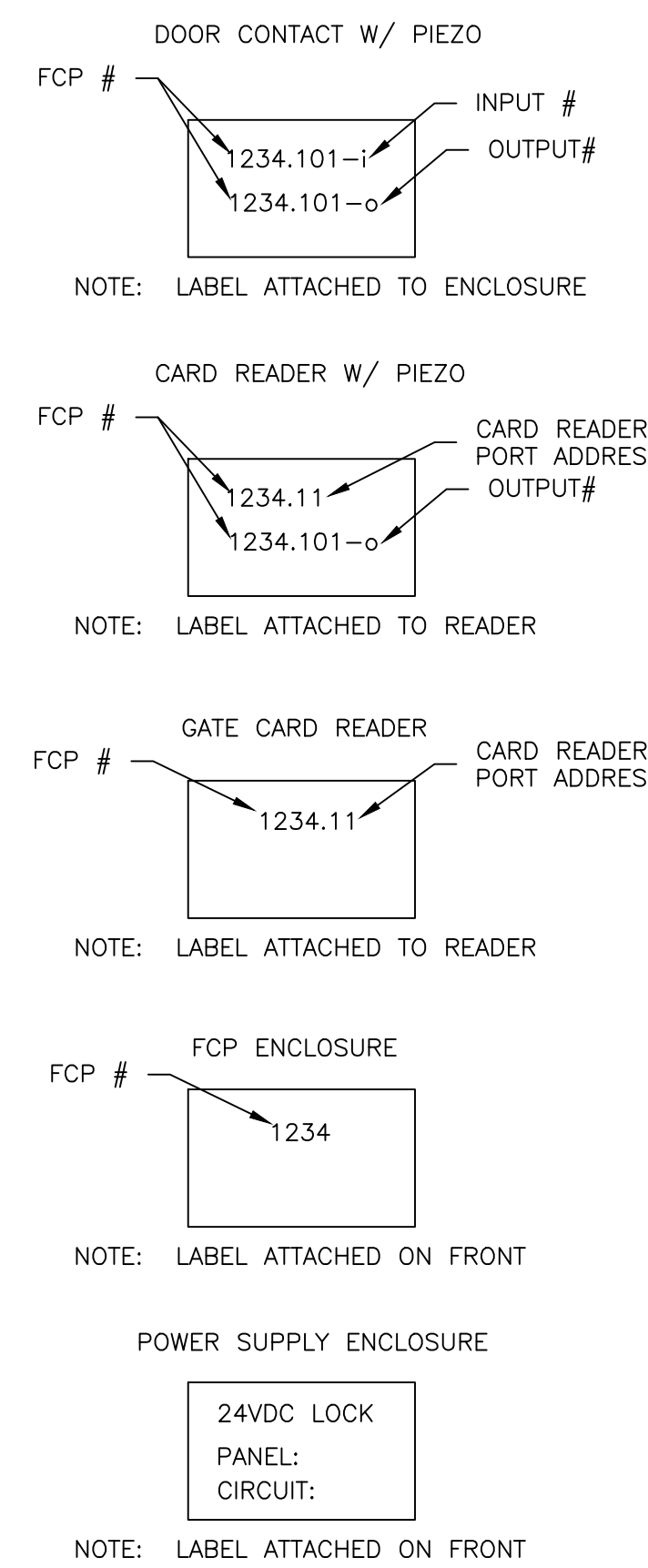
SECURITY CABLE NOTES:

- SECURITY SYSTEM CABLES MUST BE SUPPORTED INDEPENDENT OF OTHER UTILITIES, SUCH AS CONDUITS, PIPES, CEILING SUPPORT SYSTEMS, CABLE TRAYS AND NOT LAID DIRECTLY ON CEILING PANELS. CABLE SHALL BE BUNDLED IN PARALLEL WITH APPLICABLE TIES AND PROPERLY LABELED. CABLE SHALL BE SUPPORTED WITH HANDLERS SPACED AT APPROPRIATE DISTANCES.
- CABLES SHALL BE CONTINUOUS BETWEEN THE DEVICE AND THE TERMINAL CONNECTOR ON THE CONTROLLER AND/OR POWER SUPPLY.
- CABLES WITHIN EQUIPMENT RACKS, CABINETS AND CABLE TRAYS SHALL BE NEATLY STRAPPED, DRESSED AND SUPPORTED. CABLES SHALL BE GROUPED ACCORDING TO SIGNALS BEING CARRIED.
- VELCRO CABLE TIES SHALL BE USED FOR CABLE TRAINING IN EQUIPMENT RACKS. BUNDLE NO MORE THAN FOUR (4) CABLES PER BUNDLE TO FACILITATE MANUAL TRACING OF CABLE.
- UNUSED CABLE CONDUCTORS AND SHIELDS SHALL BE LABELED AS SPACE. THE CABLE SHALL BE PROTECTED FROM ACCIDENTAL SHORTING OR GROUND CONTACT.
- LABEL BOTH ENDS OF ABANDONED SECURITY SYSTEM CABLE AT THEIR POINTS OF ORIGIN AND TERMINATION POINT. USE INDELIBLE MARKER AND HELLERMAN SELF-LAMINATING GENERIC WRITE-ON TAGS TO IDENTIFY THE CABLE. TAGS SHALL BE SECURED TO CABLES WITH CABLE TIES.
- SECURITY SYSTEM CABLE SHALL BE MULTI-CONDUCTOR CABLES, SHIELDED STRANDED COPPER TYPE WITH PVC JACKET AND ULT TYPE CMT.
- CABLE INSTALLED IN EXTERIOR DUCT BANKS, UNDERGROUND CONDUIT, OR WET LOCATIONS SHALL BE SUITABLE FOR DIRECT BURIAL WITH AN OVERALL FOIL SHIELD AND WATER/UV RESISTANT JACKET. THE CABLE SHALL BE FILLED TO PREVENT THE ENTRY OF MOISTURE BETWEEN THE CONDUCTORS.

SECURITY SYSTEM LABELING NOTES:

- LABELS FOR CARD READERS, PACS NODES, WIU AND POWER SUPPLY ENCLOSURES SHALL BE 1"x3" BRADY B-93 RAISED PANEL LABEL, BLACK IN COLOR WITH WHITE TEXT. NO SUBSTITUTIONS WILL BE ACCEPTED.
- LABELS FOR CARD READERS SHALL BE AFFIXED TO EITHER TOP OR SIDE OF THE READER. LABEL SHALL NOT INTERFERE WITH THE READER LED.
- PLUG-IN TRANSFORMERS SHALL BE LABELED TO IDENTIFY THE CONNECTED DEVICE.
- POWER SUPPLIES SHALL BE LABELED WITH THE ELECTRICAL PANEL ID AND CIRCUIT NUMBER.
- FIBER OPTIC MODULES SHALL BE LABELED TO IDENTIFY THE CONNECTED DEVICE.
- USE INDELIBLE MARKER TO INDICATE THE INSTALLATION DATE OF EACH BATTERY.

LABELING EXAMPLES



| DRAWING INDEX | | | |
|---------------|---------------------|-----|----------|
| SHEET # | TITLE | REV | DATE |
| EY-0002 | NOTES | 0 | 05/24/23 |
| EY-0003 | SECURITY SIGNS | 0 | 05/24/23 |
| EY-0100 | SECURITY PLAN | 0 | 05/24/23 |
| EYD-0110 | BUILDING PLAN | 0 | 05/24/23 |
| EY-5001 | DETAILS | 0 | 05/24/23 |
| EY-5002 | DETAILS | 0 | 05/24/23 |
| EY-5003 | DETAILS | 0 | 05/24/23 |
| EY-5004 | DETAILS | 0 | 05/24/23 |
| EY-5005 | DETAILS | 0 | 05/24/23 |
| EY-5006 | DETAILS | 0 | 05/24/23 |
| EY-5007 | DETAILS | 0 | 05/24/23 |
| EY-7001 | VEHICLE GATE RISER | 0 | 05/24/23 |
| EY-7002 | BUILDING PACS RISER | 0 | 05/24/23 |
| EY-7003 | BUILDING VMS RISER | 0 | 05/24/23 |

GENERAL SYMBOLS

| SHEET KEY NOTE | |
|----------------|--------------------------------|
| | READER PORT ADDRESS |
| | OUTPUT PORT ADDRESS |
| | INPUT PORT ADDRESS |
| | FIXED CAMERA |
| | MULTI-SENSOR CAMERA |
| | LICENSE PLATE CAMERA |
| | PHYSICAL ACCESS CONTROL SYSTEM |
| | VIDEO MANAGEMENT SYSTEM |
| | DOOR CONTACT |
| | CAMERA |
| | CARD READER |

ELECTRICAL AND DATA SYMBOLS

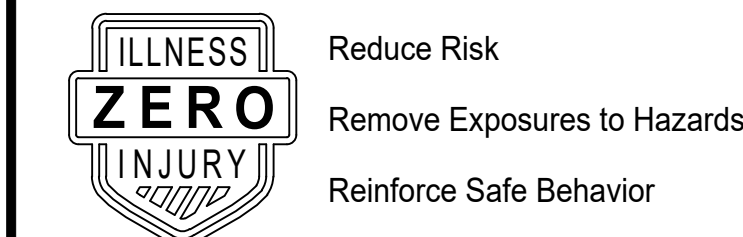
| | |
|--|--|
| | DENOTES CONDUIT ROUGH-IN FOR SECURITY DEVICE. REFER TO DEVICE DETAIL FOR MORE INFORMATION. |
| | DENOTES DEDICATED, UNSWITCHED 120VAC ELECTRICAL CONNECTION FOR PACS EQUIPMENT. |
| | DENOTES DATA CONNECTION FOR PACS AND VMS EQUIPMENT. |

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Safety Expectations:



SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NORTH CAROLINA

| REVISION | DATE | BY | ISSUED FOR CONSTRUCTION |
|----------|----------|----|-------------------------|
| 1 | 05/24/23 | BP | |

PROJECT NO: 00000000
DRAWING NUMBER
CFD-PN0000-EY-0002-00000000

ELECTRONIC FILE NAME: EY-0002

DRAWN BY: BP 05/24/23

CHKD BY: BP 05/24/23

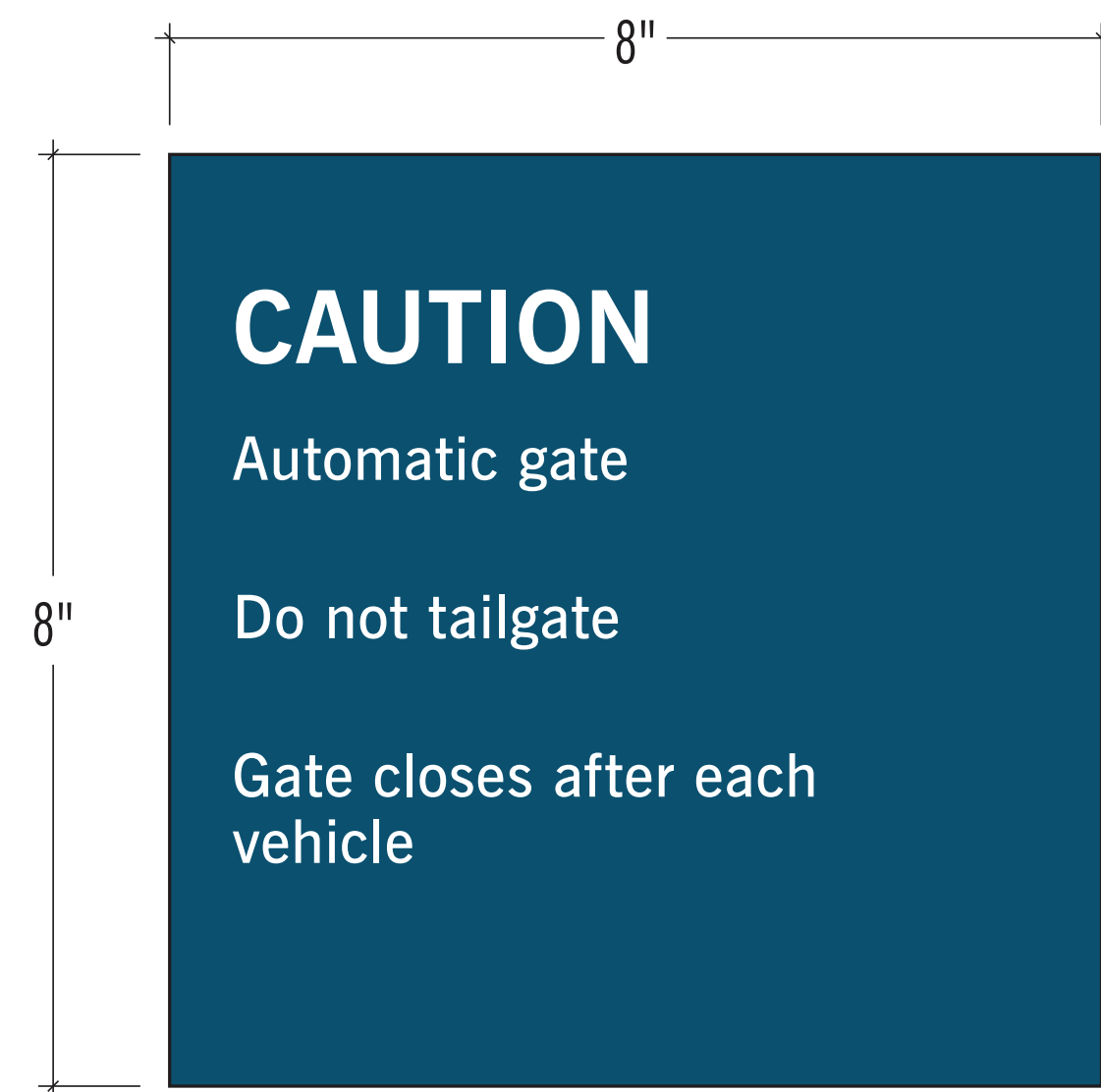
E-MAIL: BPYINTER@PAYINTERCONSULTING.COM

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SHEET TITLE:
PROJECT NOTES & INDEX
SECURITY SYSTEMS

SHEET NO.
EY-0002

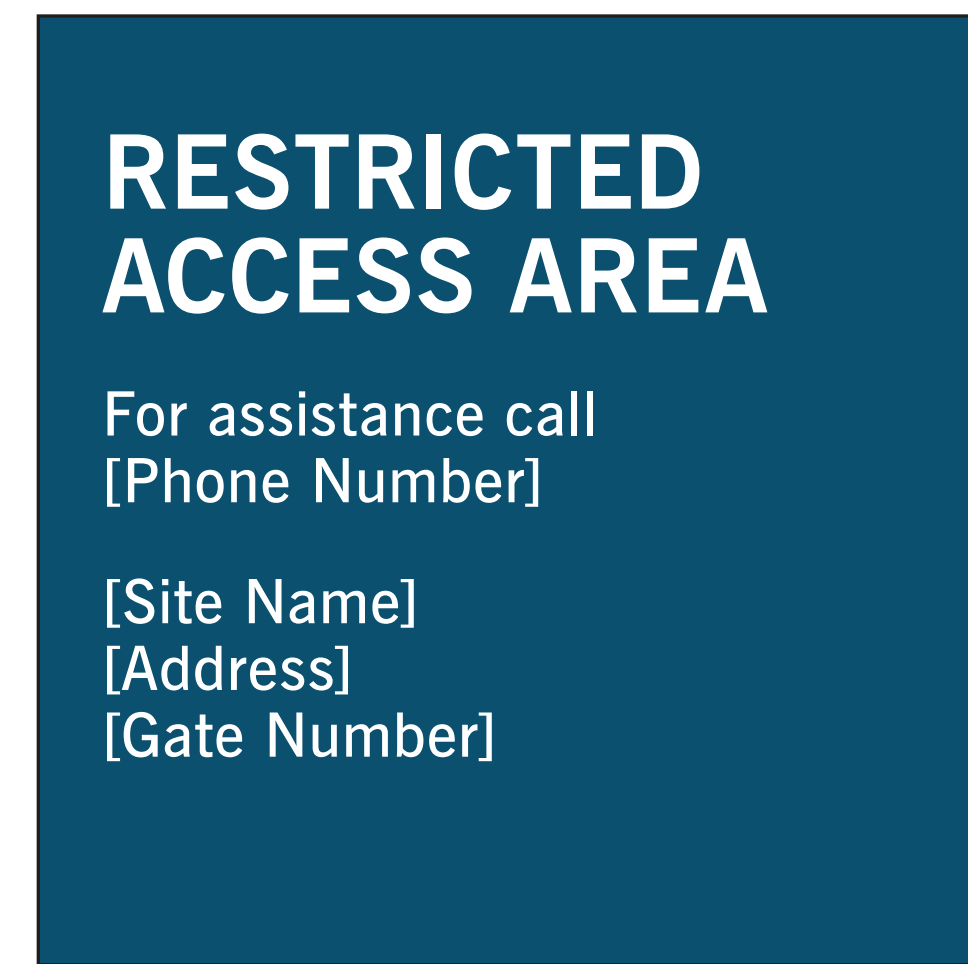
General Security Signage Standards



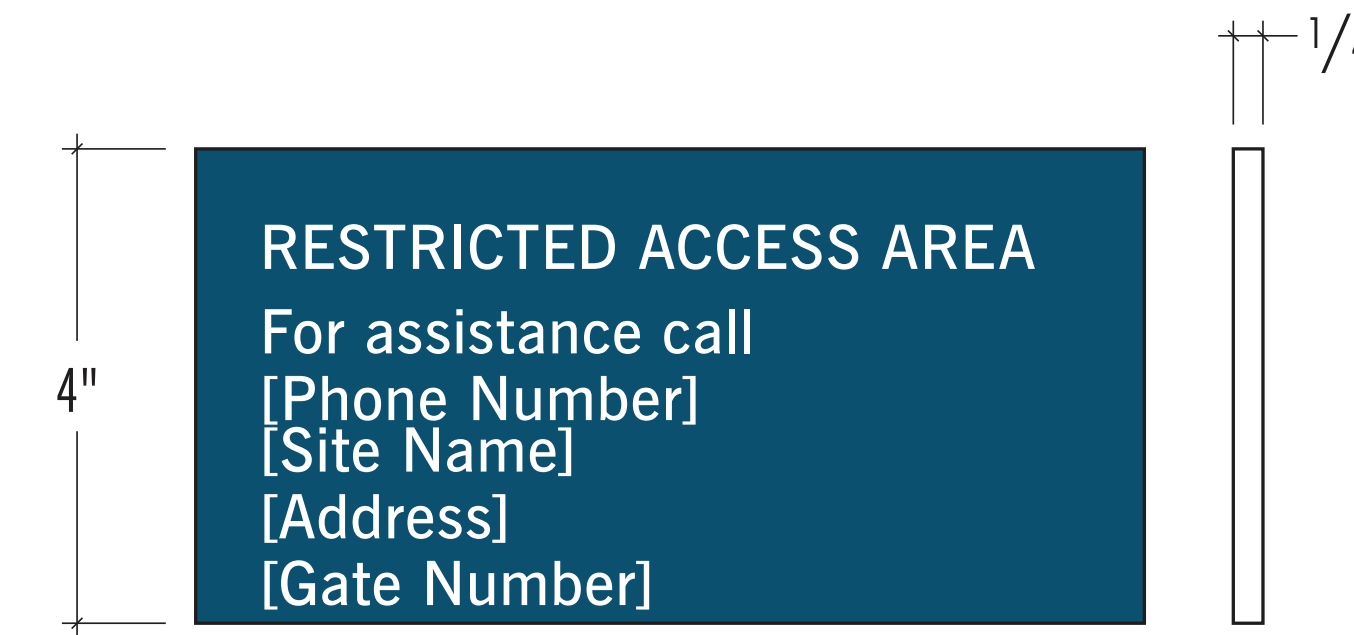
AUTO GATE EXT. (S.1) | QTY: 00 (total)
3" = 1'-0"



DOOR IS ALARMED INT. (S.2) | QTY: 00 (total)
3" = 1'-0"



RESTRICTED ACCESS EXT. (S.5) | QTY: 00 (total)
3" = 1'-0"



SM. RESTRICTED ACCESS EXT. (S.6) | QTY: 00 (total)
3" = 1'-0"

COLORS & FINISHES:

Paint to match PMS 3025 C
Panel (all sides)

Paint to match PMS 186 C
Panel (all sides)

Paint to match PMS 130 C
Panel (all sides)

DIGITAL PRINT COLORS: (White Vinyl)

PMS 3025 C
Panel background

PMS 186 C
Panel background

PMS 130 C
Panel background

White
Copy

CONSTRUCTION SPECIFICATIONS:

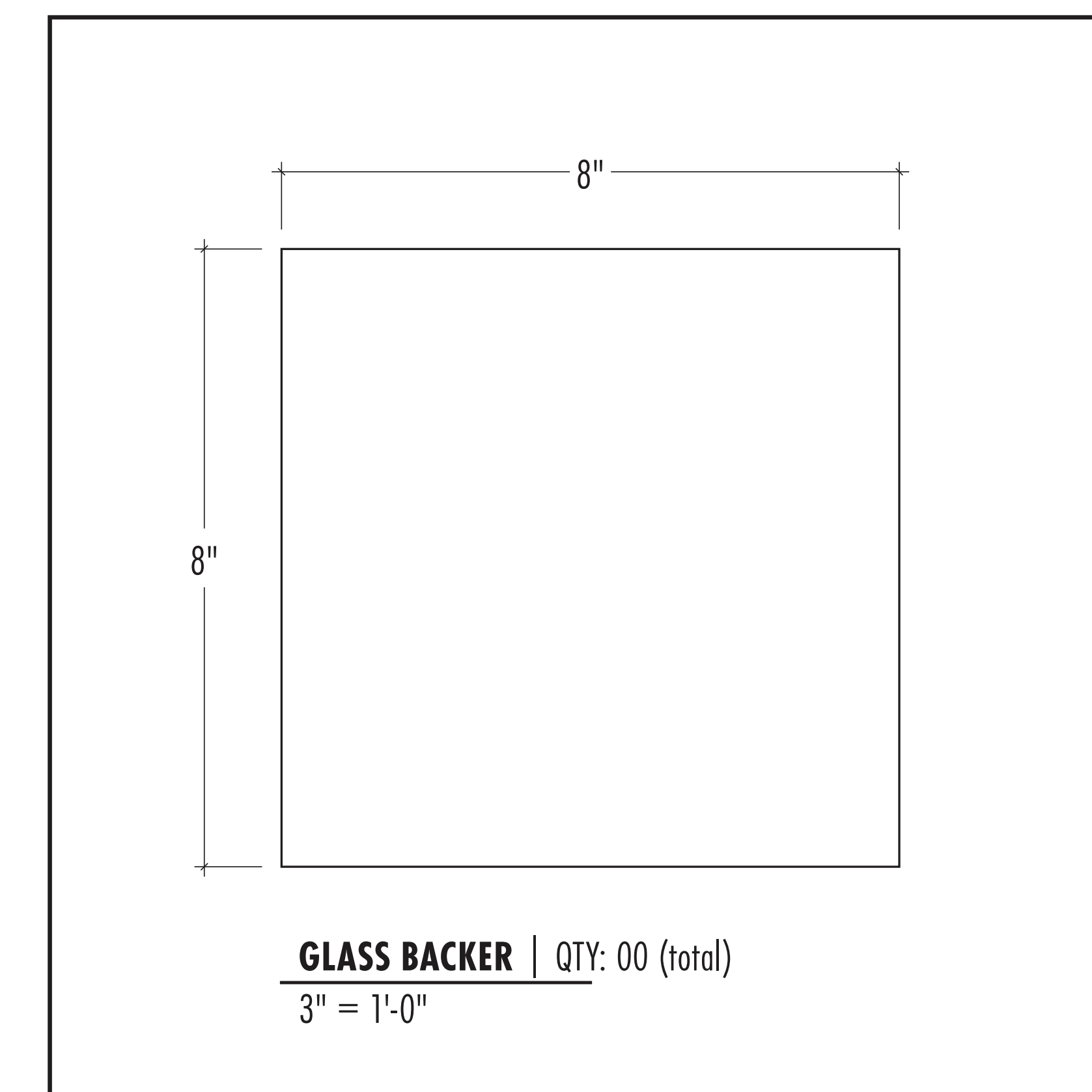
Panel:
1/4" Acrylic W/
Full Sheet Digital Print Vinyl

Glass Backer:
2nd Surface Vinyl

MOUNTING HARDWARE:

DF Tape
GE 100% Clear Silicone #LW012A

GENERAL NOTES:

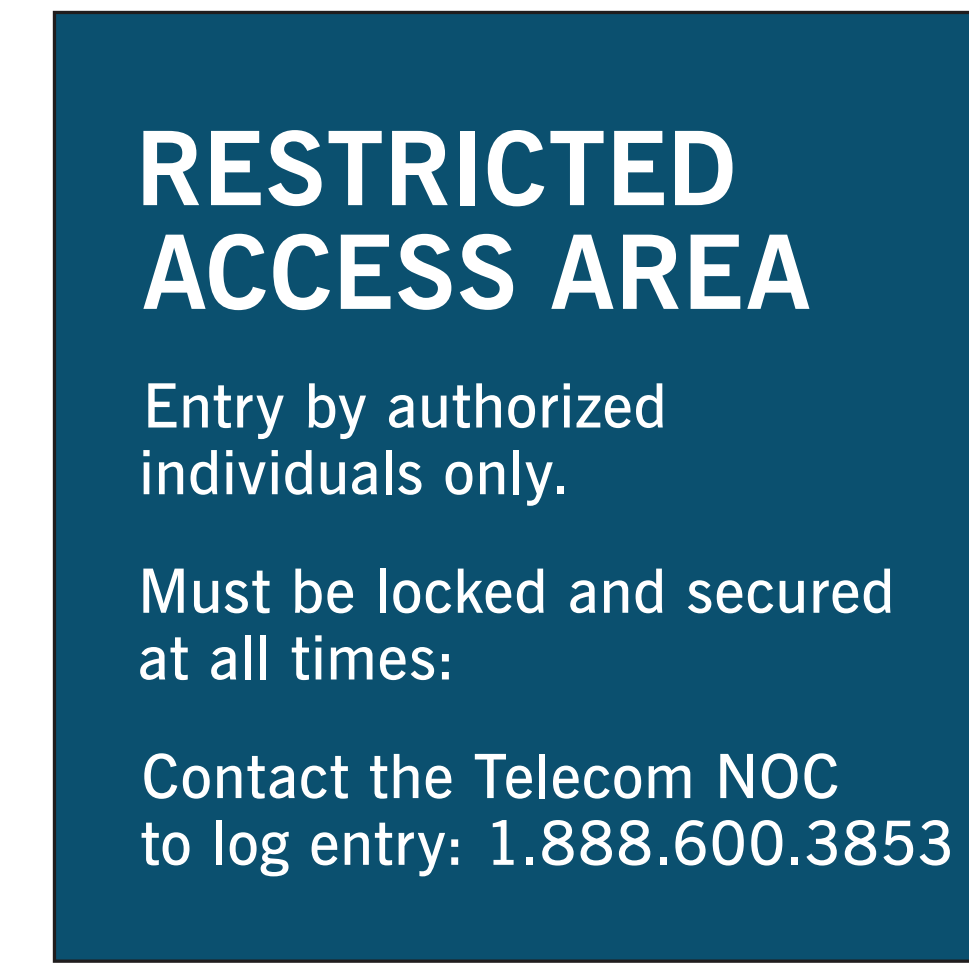


General Facility Emergency Signage Standards



EMERGENCY EXIT ONLY INT. (S.7) | QTY: 00 (total)
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Telecom Signage

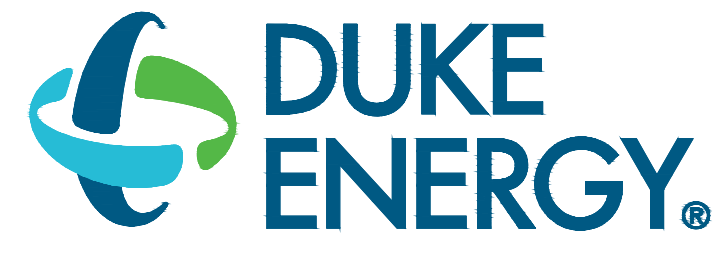


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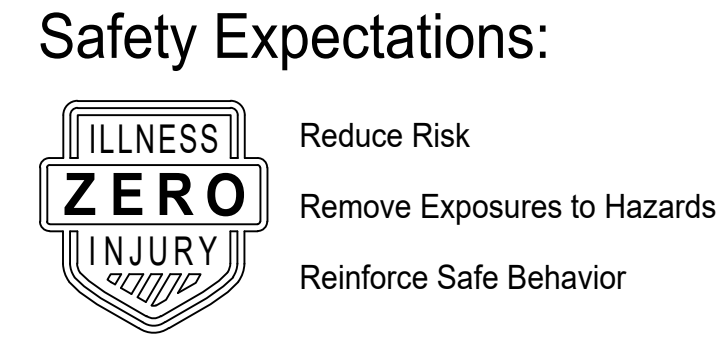


NO TRESPASSING (Ext.) | S.10
3" = 1'-0"

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DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

| MARK | DATE | BY | REVISION |
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| 1 | 05/24/23 | BP | ISSUED FOR CONSTRUCTION |
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PROJECT NO: 00000
DRAWING NUMBER: CFD-PN0000-EY-0003-00000000
ELECTRONIC FILE NAME: EY-0003
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPYINTER@PAYINTERCONSULTING.COM

SHEET TITLE:
**SIGN PACKAGE
PHYSICAL SECURITY**

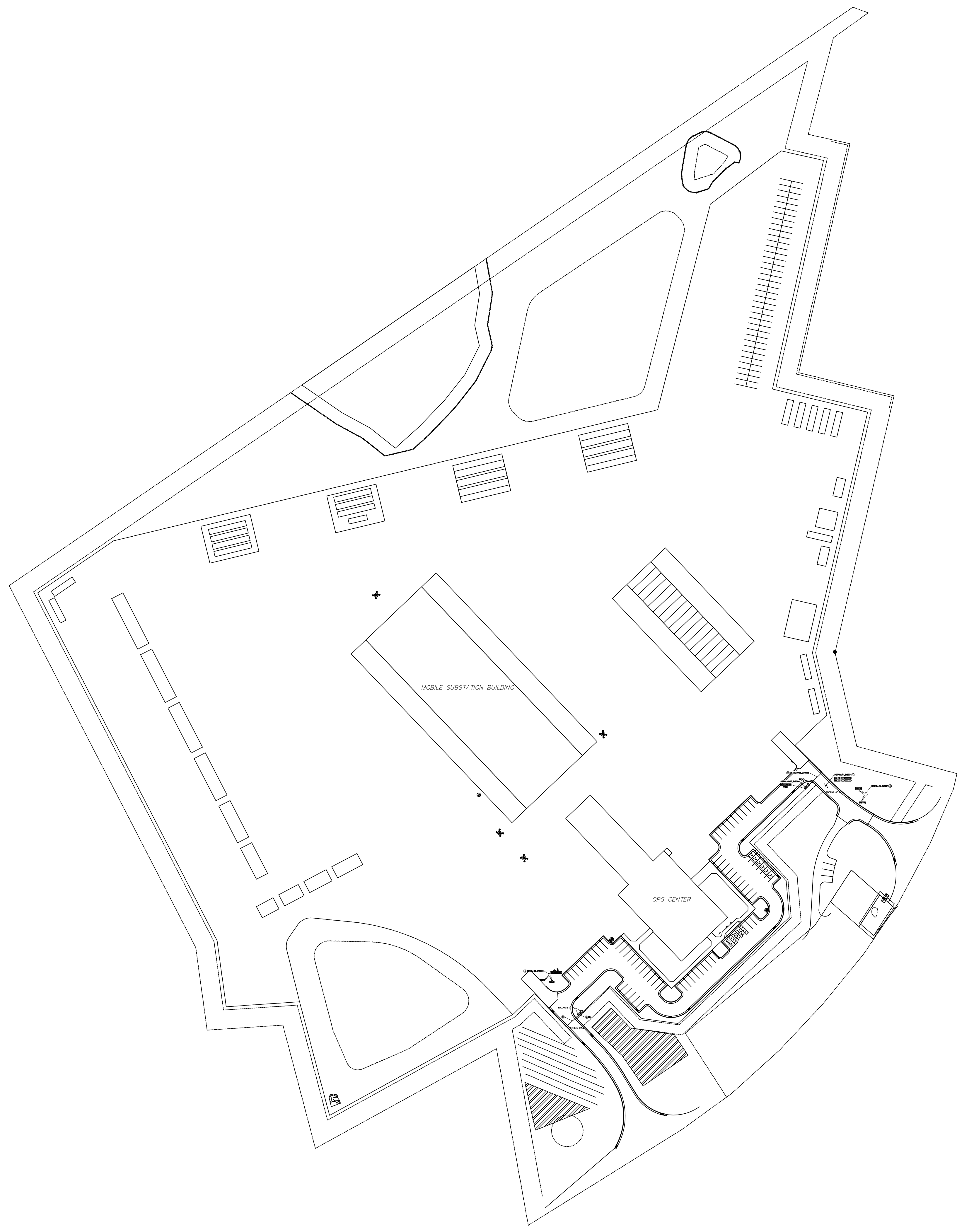
SHEET NO:
EY-0003

| CAMERA SCHEDULE | | |
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| CAMERA # | MODEL | NOTE |
| 08 | 3.0C-HD-LP-B1 | 3.0C-HD-LP-B1 |
| 09 | 24C-H4A-3MH-270 | 270 DEGREE |
| 10 | 3.0C-H4VI-RO1-IR | VIDEO INTERCOM |
| 11 | 3.0C-H4VI-RO1-IR | VIDEO INTERCOM |
| 12 | 3.0C-HD-LP-B1 | 3.0C-HD-LP-B1 |
| 13 | 24C-H4A-3MH-270 | 270 DEGREE |

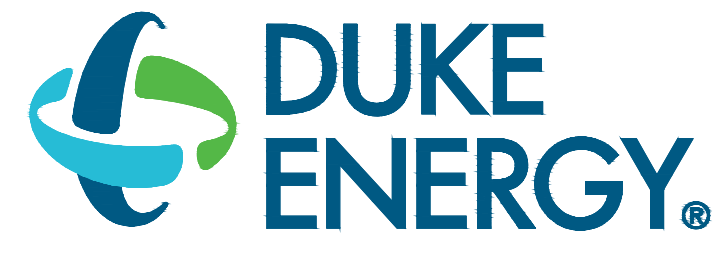
- SHEET KEY NOTES**
- SECURITY CONTRACTOR TO PROVIDE AND INSTALL DUAL TIER STANCHION. STANCHION AND HOUSING SHALL BE MANUFACTURED BY PARAGON METALS AS OUTLINED IN SECTION 0800 OF DEWS.
 - GATE CONTRACTOR TO PROVIDE AND INSTALL TYPICAL HEAVY DUTY COMMERCIAL CANTILEVER GATE.
 - GATE CONTRACTOR TO PROVIDE AND INSTALL HYSECURITY MODEL 30P SLIDE OPERATOR.
 - GC TO PROVIDE AND INSTALL METAL CAMERA POLE FOR LICENSE PLATE RECOGNITION CAMERA. REFER TO DETAIL FOR POLE AND CONDUIT REQUIREMENTS. POLE TO BE INSTALLED APPROXIMATELY 70' FROM GATE.
 - PROVIDE AND INSTALL HOFFMAN A24H24BLP3RPT ENCLOSURE WITH 120VAC RECEPTACLE INSIDE ENCLOSURE AT BASE OF POLE. PROVIDE 1 1/2" CONDUIT FROM ENCLOSURE TO MSS TELECOM ROOM.
- GENERAL SHEET NOTES**
- REFER TO SHEET EY-0002 FOR SYMBOL LEGEND, PROJECT NOTES.
 - DUKE ENERGY TELECOM TO PROVIDE ONE (1) STATIC IP ADDRESS FOR EACH ACCESSIBLE CONTROLLED VEHICLE GATE SHOWN ON THE DRAWINGS.
 - FIBER OPTIC CONTRACTOR TO FURNISH AND INSTALL ALL FIBER OPTIC CABLE REQUIRED FOR INSTALLATION. REFER TO EY-0002 SERIES RISER DIAGRAMS FOR FIBER REQUIREMENTS. INSTALLATION SHALL BE COMPLETE TURNKEY.
 - MOTOROLA SOLUTIONS TO FURNISH AND INSTALL CAMERAS, CAMERA MOUNTING BRACKETS, CAT 6 CABLE, AND VMS HARDWired PSE SWITCHES.
 - MOTOROLA SOLUTIONS TO PROVIDE VMS LICENSES, SYSTEM CONFIGURATION, AND COMMISSIONING.
 - SECURITY CONTRACTOR TO FURNISH AND INSTALL ALL PACS EQUIPMENT, LOW VOLTAGE CABLE, AND COMMISSIONING.
 - GC SHALL PROVIDE AND INSTALL SECURITY SIGNS FOR THE READER STANCHIONS AND PEDESTRIAN GATE. REFERENCE EY-0003 AND DEWS SECURITY SIGN STANDARDS.
 - ELECTRICAL DOOR HARDWARE FOR PEDESTRIAN GATE SHALL BE FURNISHED AND INSTALLED BY GC. SECURITY CONTRACTOR SHALL CONNECT ELECTRIC DOOR HARDWARE TO 24 VDC POWER SUPPLY.
 - ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120VAC 20AMP ELECTRICAL CIRCUITS FOR EACH VEHICLE GATE OPERATORS AND NEAR 4 ENCLOSURE. REFER TO SPECIFIC DETAILS FOR MORE INFORMATION.
 - CONDUIT REQUIREMENTS FOR EACH VEHICLE GATE IS SHOWN ON EY-0002.

ELECTRICAL AND DATA SYMBOLS

- DENOTES CONDUIT ROUGH-IN FOR SECURITY DEVICE. REFER TO DEVICE DETAIL FOR MORE INFORMATION.
- DENOTES DEDICATED, UNSWITCHED 120VAC ELECTRICAL CONNECTION FOR PACS EQUIPMENT.
- DENOTES DATA CONNECTION FOR PACS AND VMS EQUIPMENT.



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Safety Expectations:

ILLNESS ZERO INJURY ZERO

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

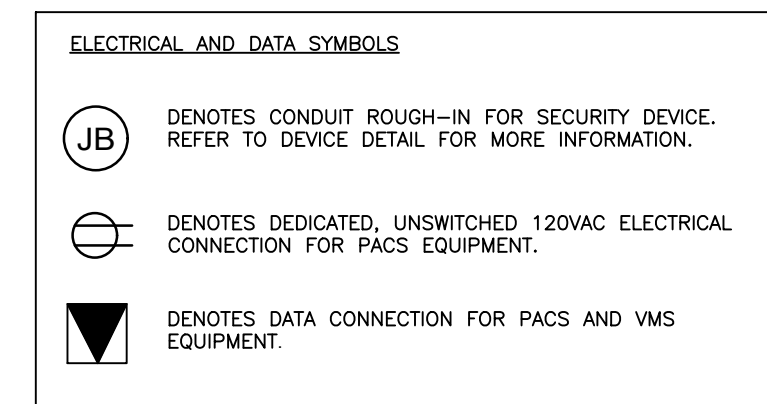
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PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-0100-0000000**
ELECTRONIC FILE NAME: EY-0100
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAINTERCONSULTING.COM

SHEET TITLE:
GATE ACCESS PLAN
PHYSICAL SECURITY

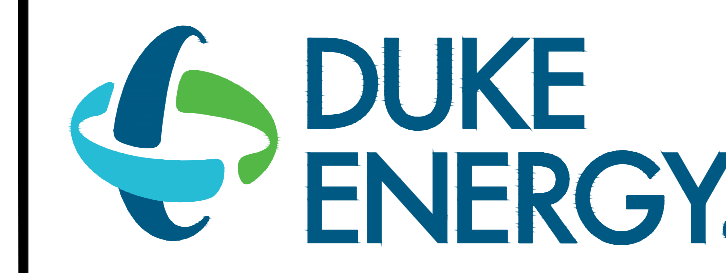
SHEET NO:
EY-0100

| CAMERA SCHEDULE | | |
|-----------------|-----------------|----------------|
| CAMERA # | MODEL | NOTE |
| 1 | 24C-H4A-3MH-270 | CORNER MOUNT |
| 2 | 24C-H4A-3MH-180 | WALL MOUNT |
| 3 | 24C-H4A-3MH-180 | WALL MOUNT |
| 4 | 24C-H4A-3MH-180 | WALL MOUNT |
| 5 | 24C-H4A-3MH-180 | WALL MOUNT |
| 6 | 24C-H4A-3MH-270 | CORNER MOUNT |
| 7 | 4.0C-H5A-DO1-IR | INTERIOR MOUNT |



- SHEET KEY NOTES**
- ELECTRICAL CONTRACTOR TO PROVIDE ONE WALL MOUNTED DEDICATED 120VAC ELECTRICAL CONNECTION FOR FCP AND 12 / 24 VDC POWER SUPPLY CABINETS. COORDINATE LOCATION OF ELECTRICAL CONNECTION WITH SECURITY CONNECTION.
 - APPROXIMATE LOCATION OF WALL MOUNTED FCP AND POWER SUPPLY CABINETS. REFER TO DETAIL FOR CONDUIT AND POWER REQUIREMENTS.
 - APPROXIMATE LOCATION OF WALL MOUNTED VIDEO MANAGEMENT EQUIPMENT CABINET. REFER TO DETAIL PAGE FOR CONDUIT AND POWER REQUIREMENTS.

- GENERAL SHEET NOTES**
- REFER TO SHEET EY-0002 FOR SYMBOL LEGEND, PROJECT NOTES.
 - DUKE ENERGY TELECOM TO PROVIDE ONE (1) STATIC IP ADDRESS FOR THE FCP SHOWN ON THE DRAWINGS.
 - DUKE ENERGY TELECOM TO PROVIDE TWO (2) STATIC IP ADDRESSES FOR THE VMS SERVER.
 - MOTOROLA SOLUTIONS TO FURNISH AND INSTALL CAMERAS, CAMERA MOUNTING BRACKETS, CAT 6 CABLE, VMS SERVER AND VMS PoE SWITCH.
 - MOTOROLA SOLUTIONS TO PROVIDE VMS LICENSES, SYSTEM CONFIGURATION, AND COMMISSIONING.
 - SECURITY CONTRACTOR TO FURNISH AND INSTALL ALL PACS EQUIPMENT, LOW VOLTAGE CABLE, AND COMMISSIONING.
 - GC SHALL PROVIDE AND INSTALL SECURITY SIGNS FOR CARD READER DOORS SHOWN ON THE DRAWINGS. REFERENCE EY-0003 AND DEWS SECURITY SIGN STANDARDS.
 - ELECTRICAL DOOR HARDWARE FOR CARD READER DOORS SHALL BE FURNISHED AND INSTALLED BY GC. SECURITY CONTRACTOR SHALL CONNECT ELECTRIC DOOR HARDWARE TO 24 VDC POWER SUPPLY.
 - REFER TO DEWS SECTION 0800 APPROVED ELECTRIC DOOR HARDWARE TYPE.

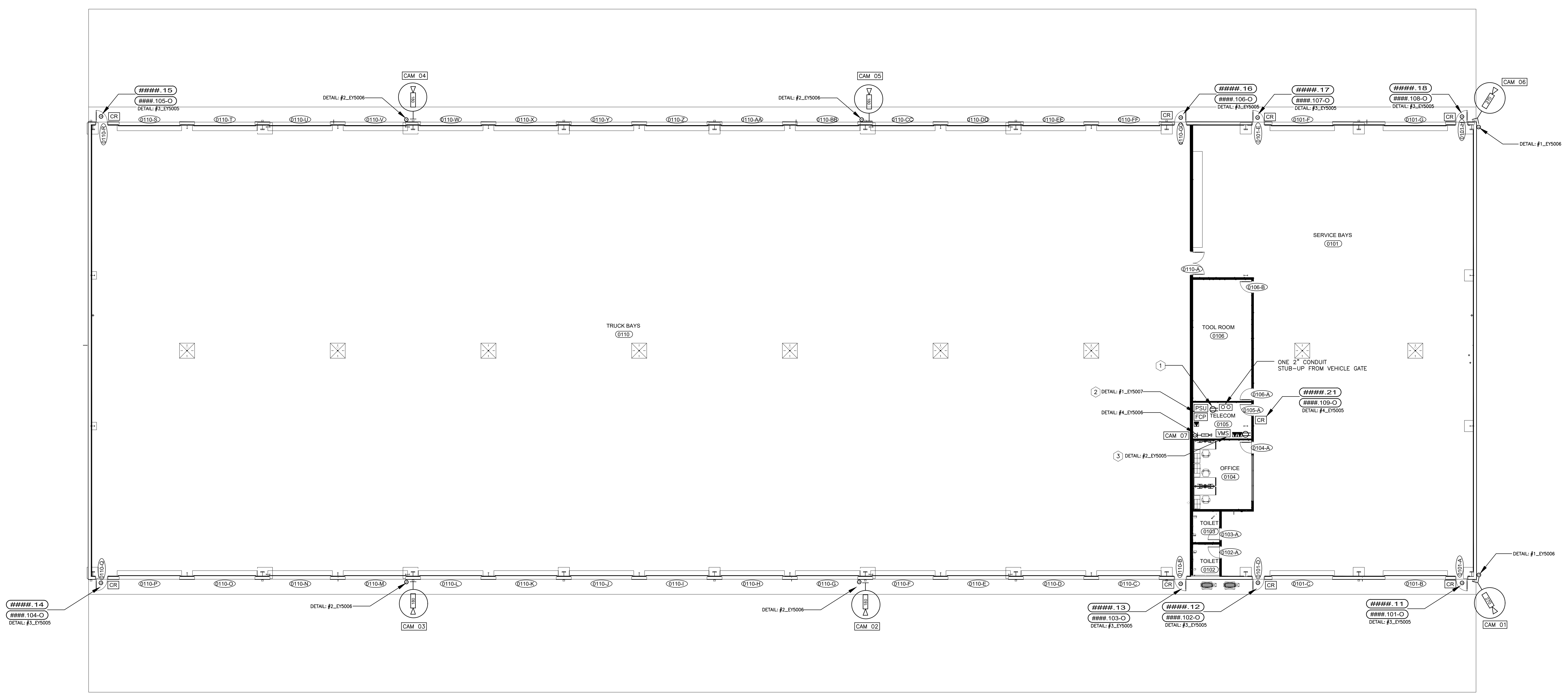


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Safety Expectations:

ILLNESS ZERO Reduce Risk
INJURY ZERO Remove Exposures to Hazards
Reinforce Safe Behavior

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SEAL
DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

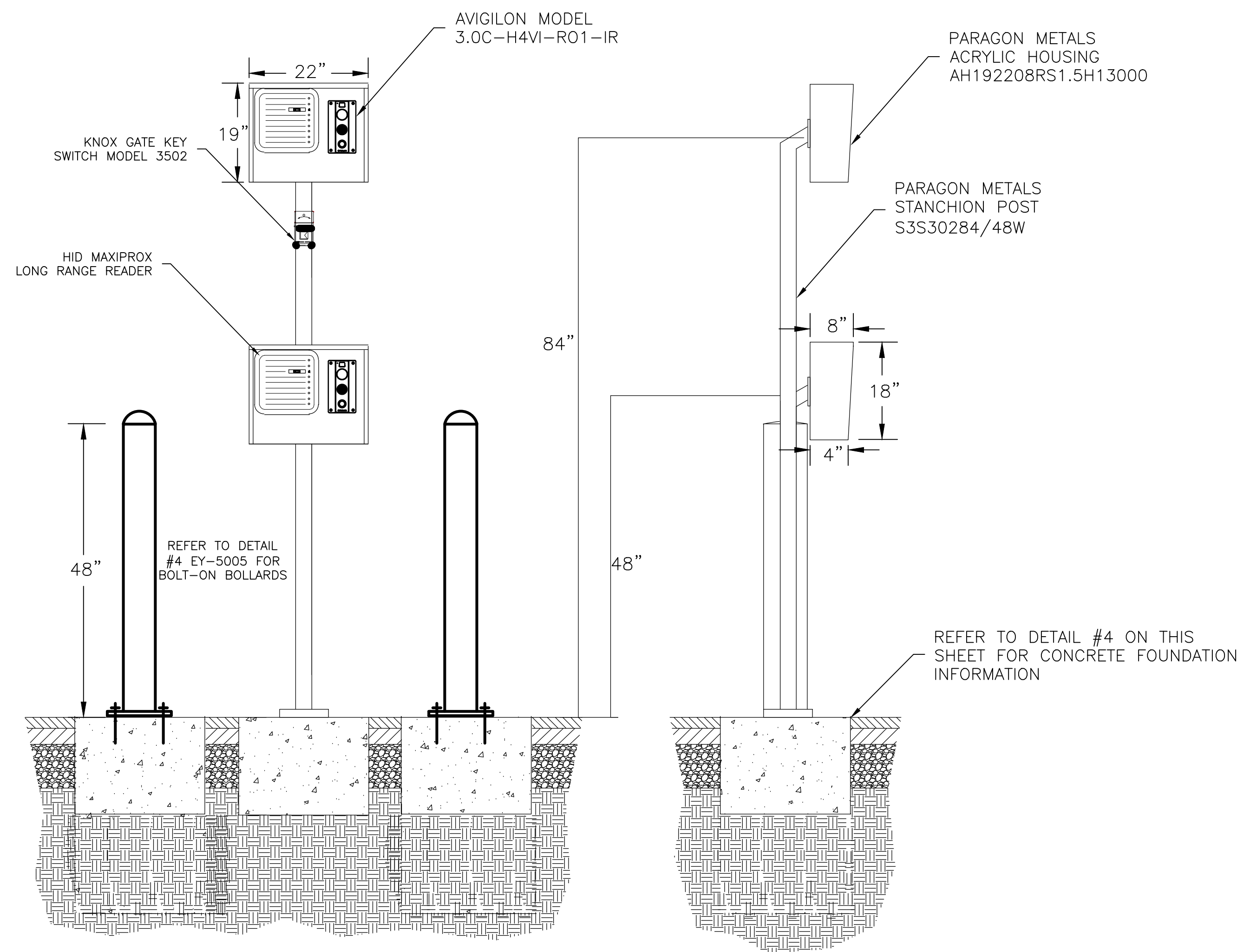
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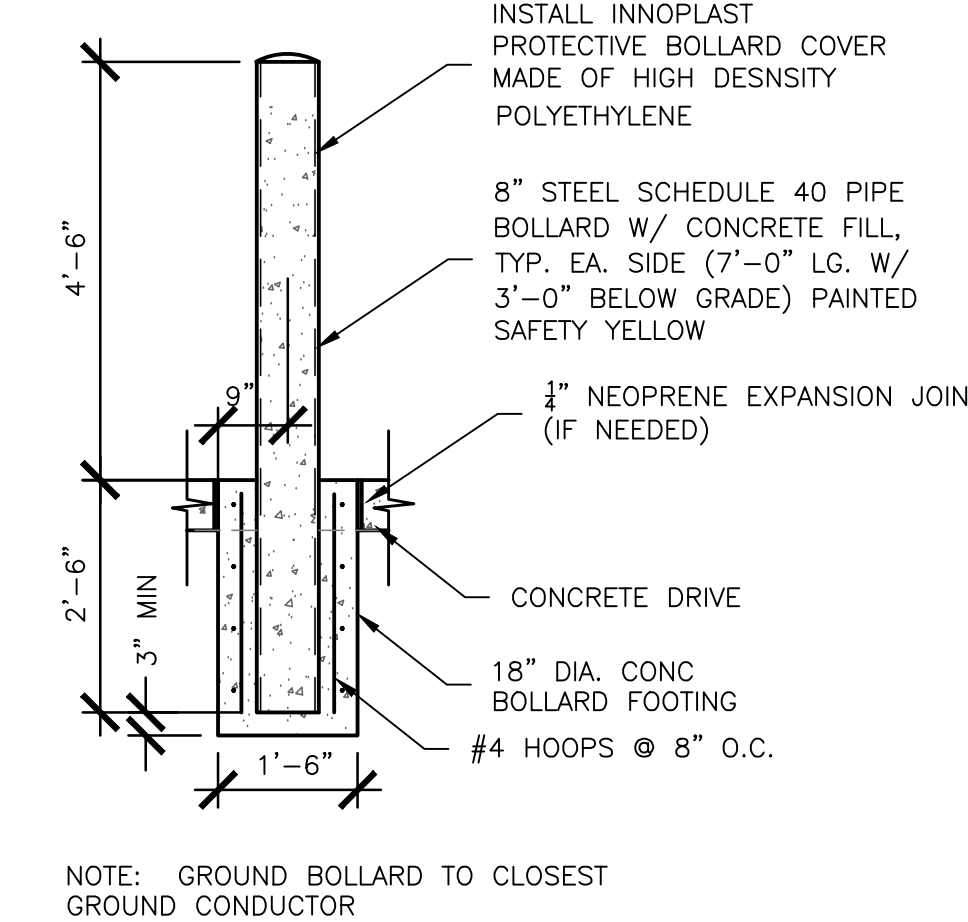
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ELECTRONIC FILE NAME: EY-0110
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAYINTERCONSULTING.COM

SHEET TITLE:
MOBILE SUBSTATION STORAGE
PHYSICAL SECURITY

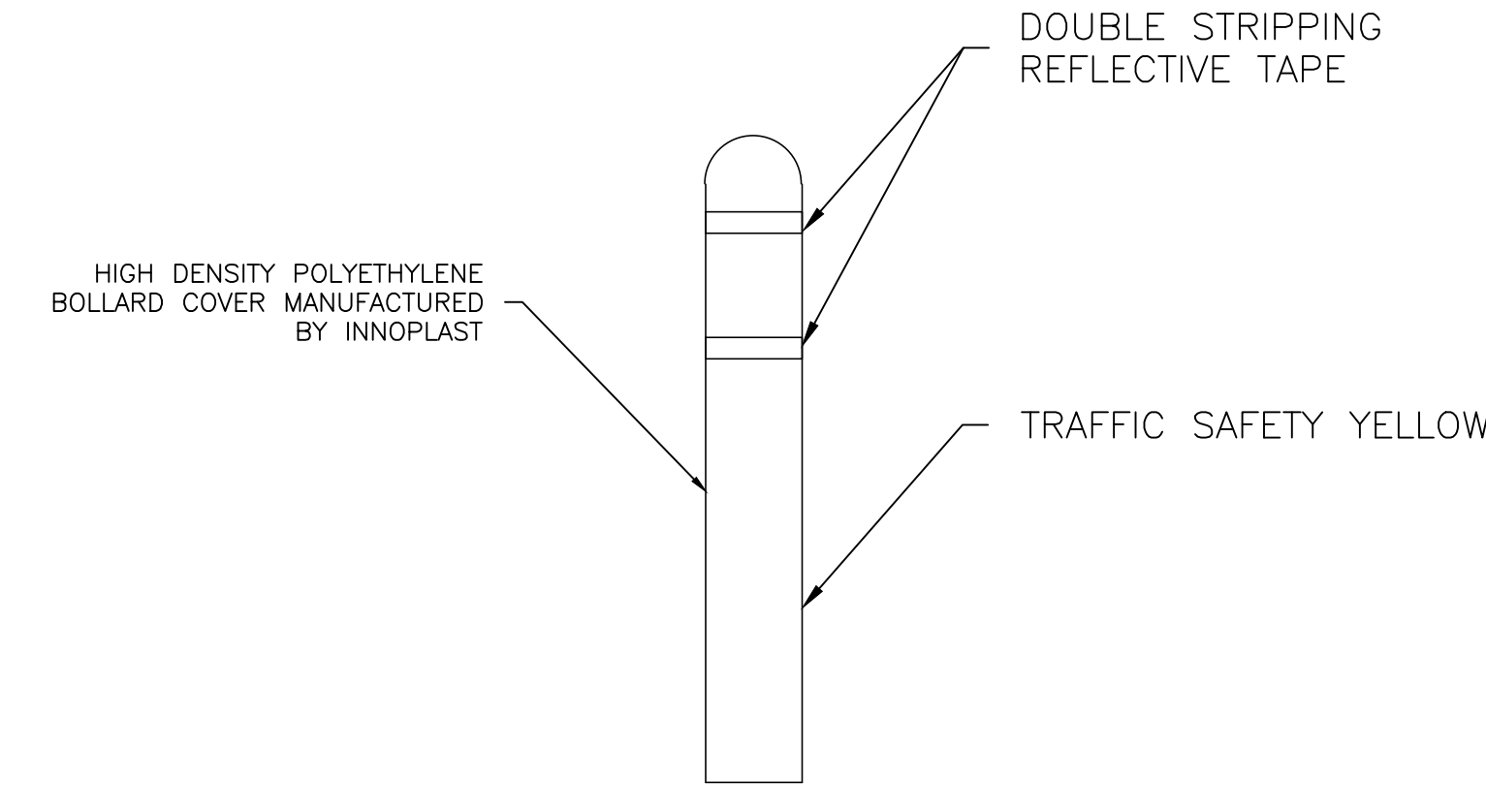
SHEET NO:
EY-0110



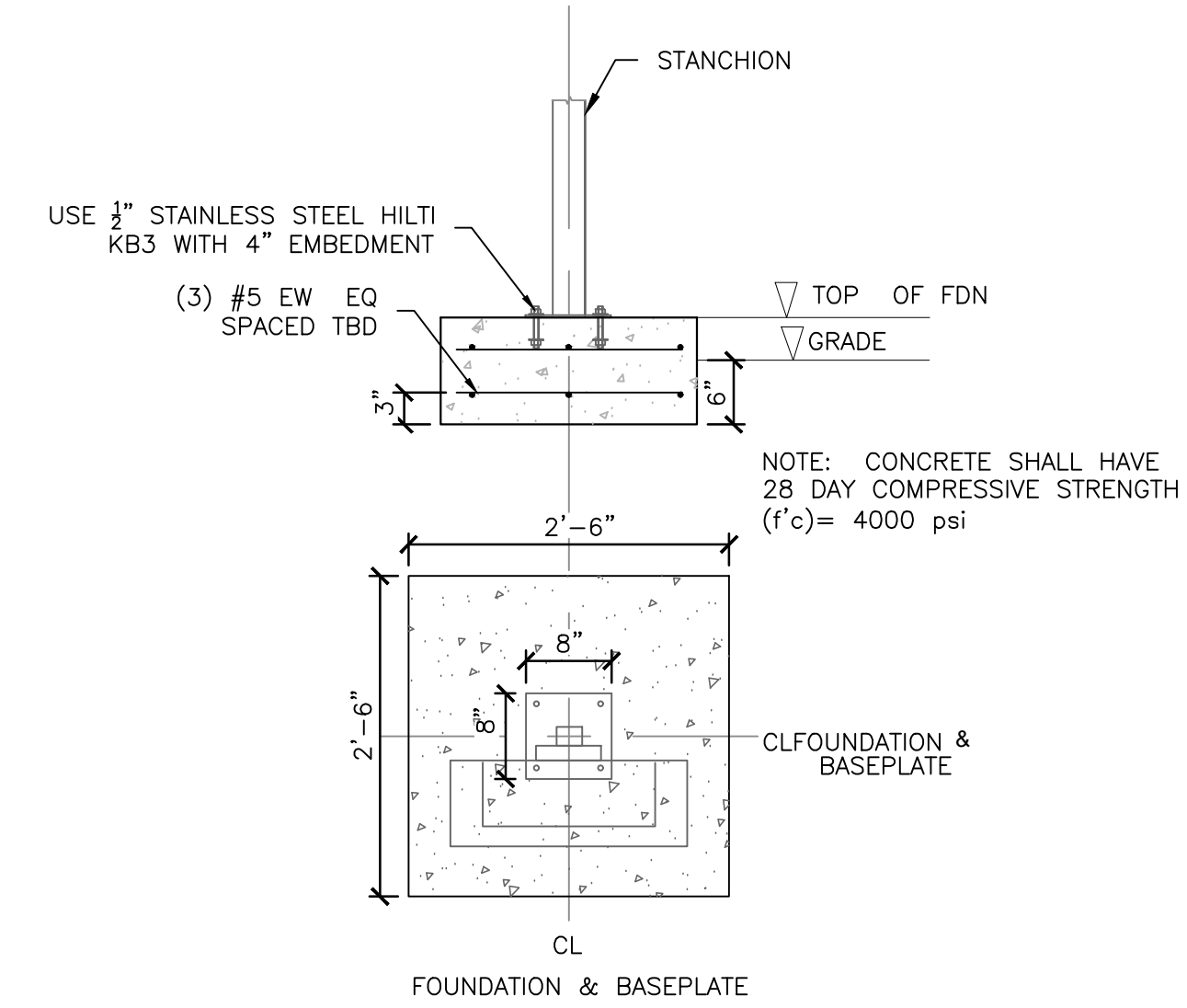
1 TYPICAL - DUAL TIER CARD READER STANCHION w/ BOLT ON BOLLARDS
SCALE: NTS



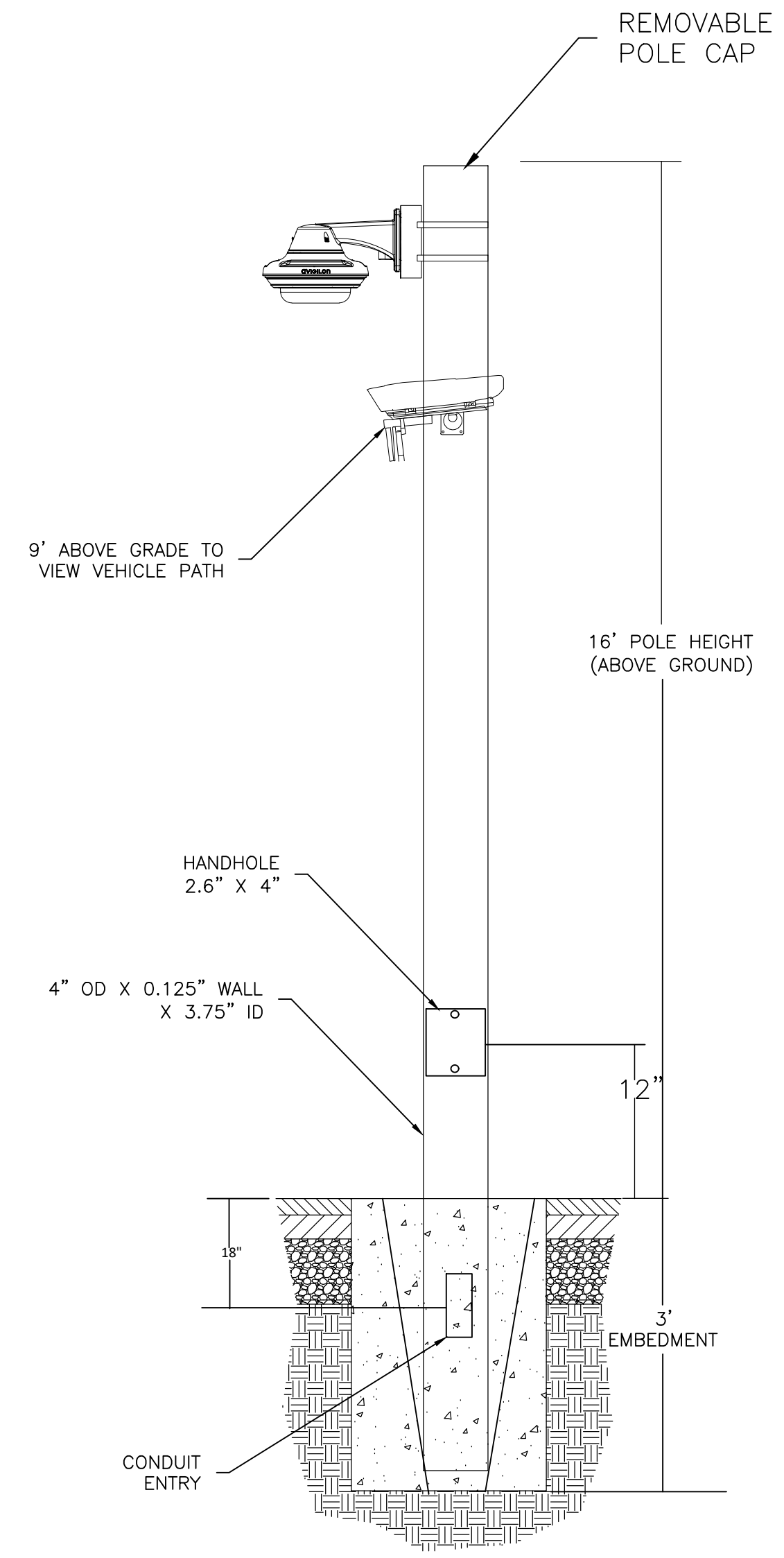
2 TYPICAL - FIXED CONCRETE FILLED BOLLARD
SCALE: NTS



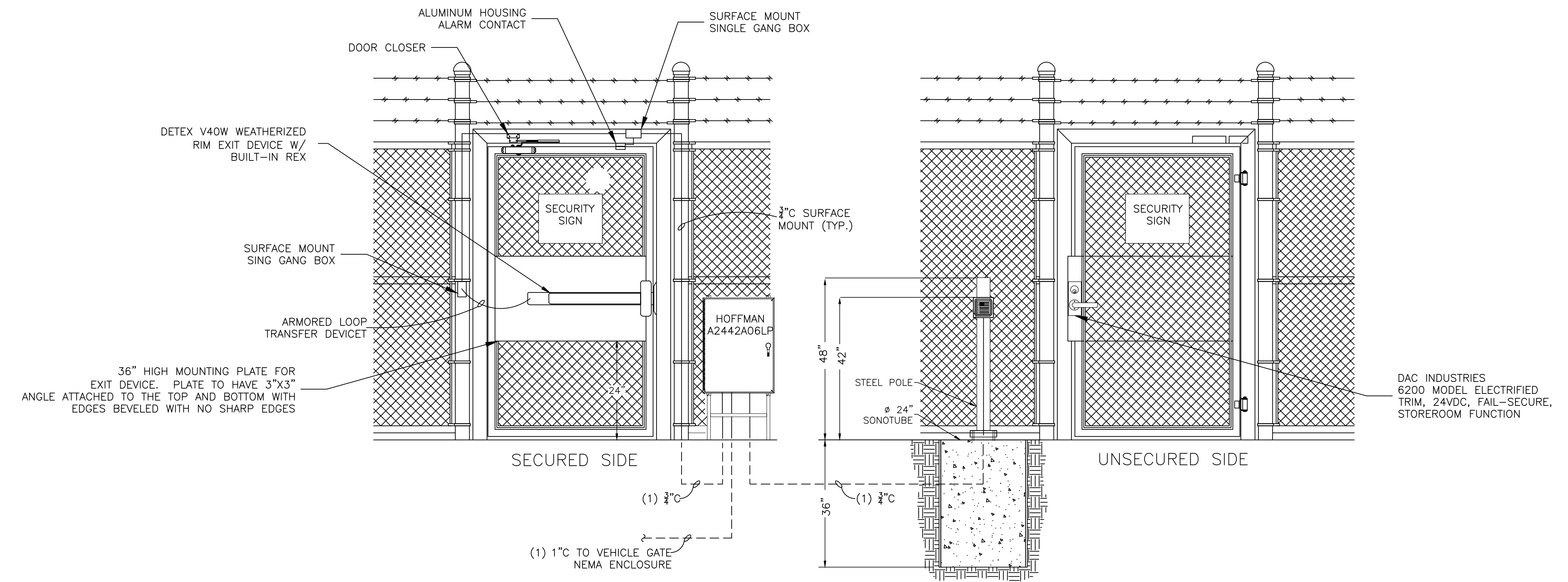
3 BOLLARD SLIP COVER
SCALE: NTS



4 TYPICAL - STANCHION FOUNDATION
SCALE: NTS

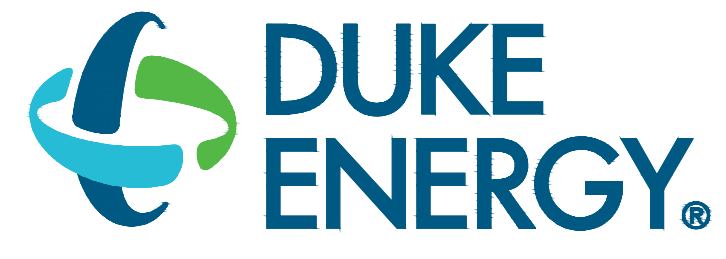


5 TYPICAL - MODEL QSAL DIRECT BURIAL CAMERA POLE
SCALE: NTS



6 MERCHANT METALS TUF GUARD GATE (3'wx7'H) w/ CARD READER
SCALE: NTS

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MAILING ADDRESS:
P.O. BOX 1007
CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY ZERO

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

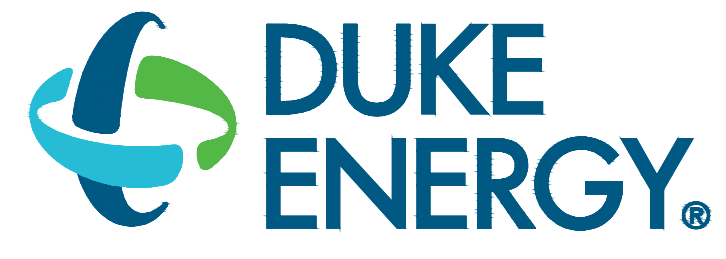
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PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-5001-0000000**
ELECTRONIC FILE NAME: EY-5001
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAYNTER@PAYNTERCONSULTING.COM

SHEET TITLE:
INSTALLATION DETAILS
PHYSICAL SECURITY

SHEET NO:
EY-5001

- GENERAL NOTES:
1. DRAWING IS DIAGRAMMATIC. INSTALL UNDERGROUND DRIVEWAY CROSSING CONDUITS NEAR FENCE TO SHARE TRENCHING AS FAR AS IS PRACTICAL.
 2. COORDINATE UNDERGROUND CONDUITS WITH ALL FOUNDATIONS, FOOTINGS AND OTHER WORK.
 3. ALL UNDERGROUND CONDUITS TO BE SCHEDULE 40PVC, 1 1/2" MINIMUM SIZE OR AS NOTED ON DRAWING.



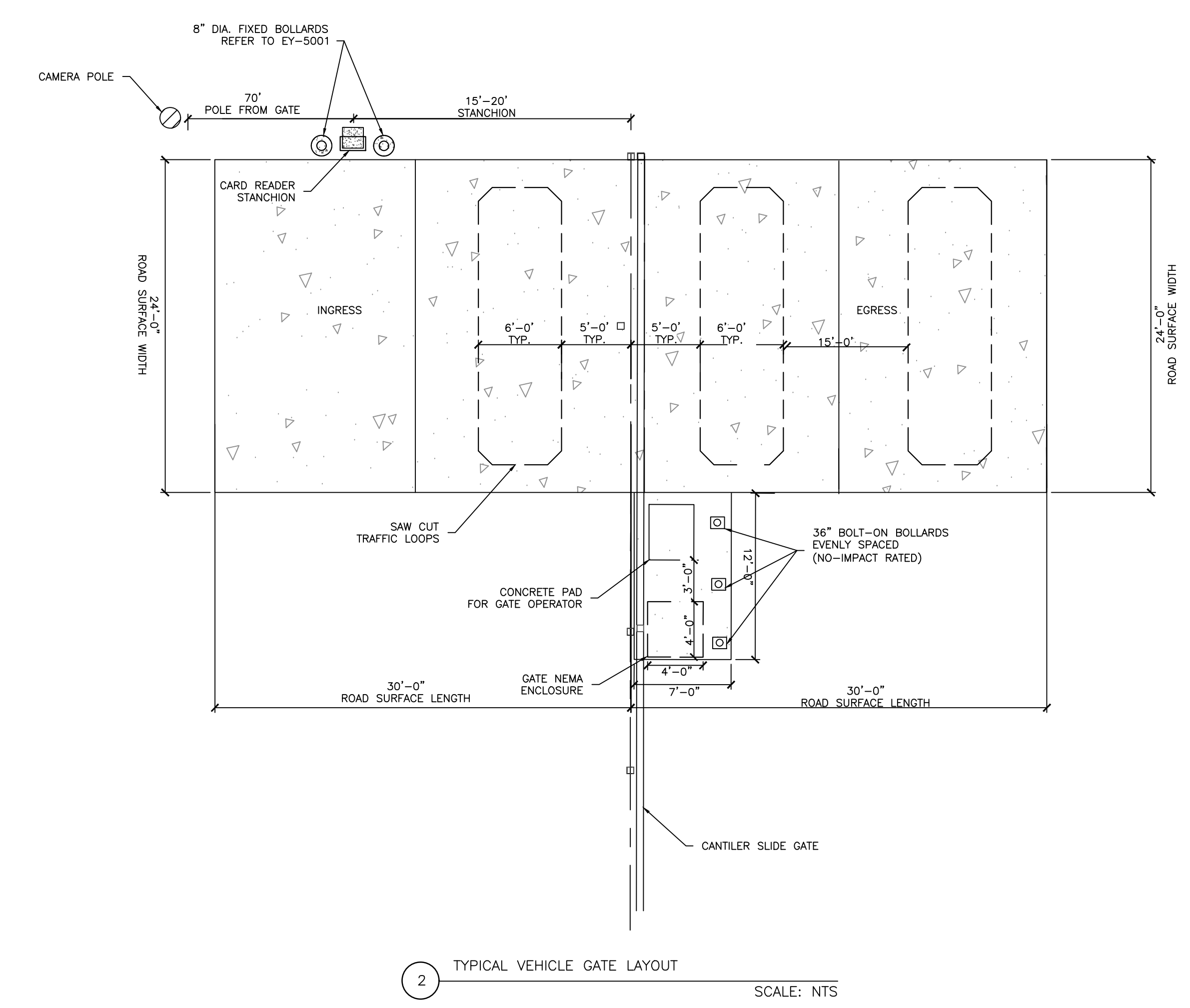
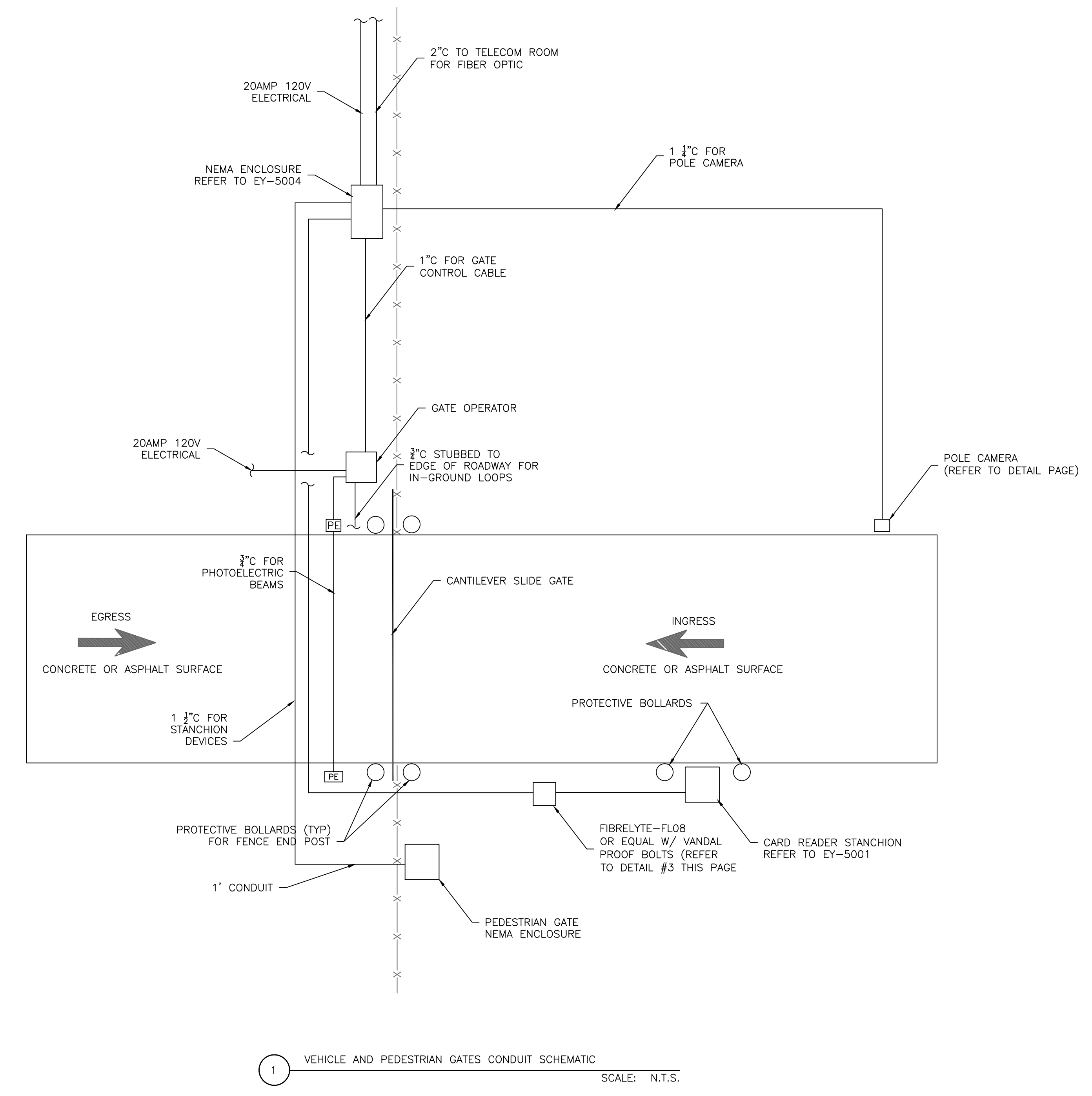
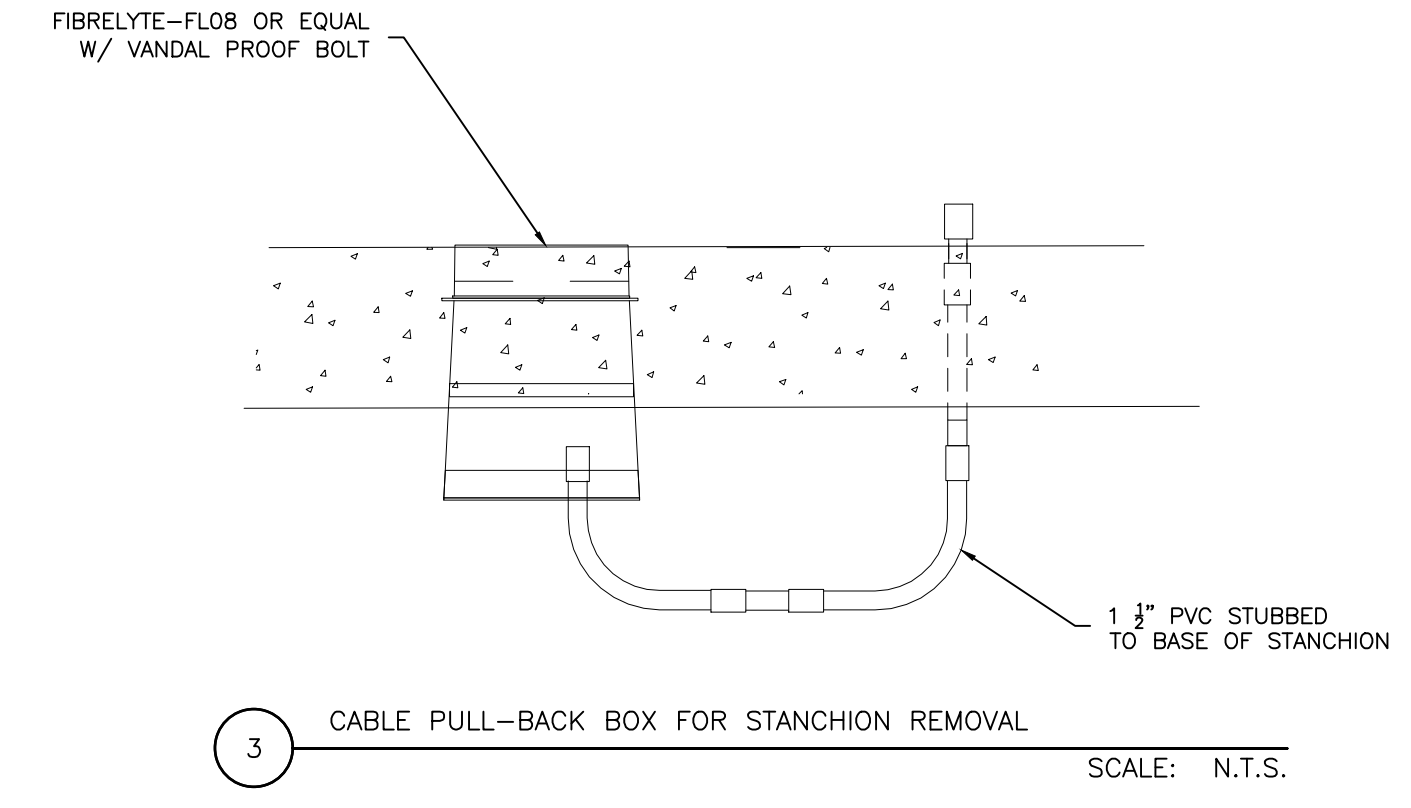
MAILING ADDRESS:
P.O. BOX 1007
CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

CONFIDENTIAL



SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

| MARK | DATE | DESCRIPTION | ISSUED FOR CONSTRUCTION |
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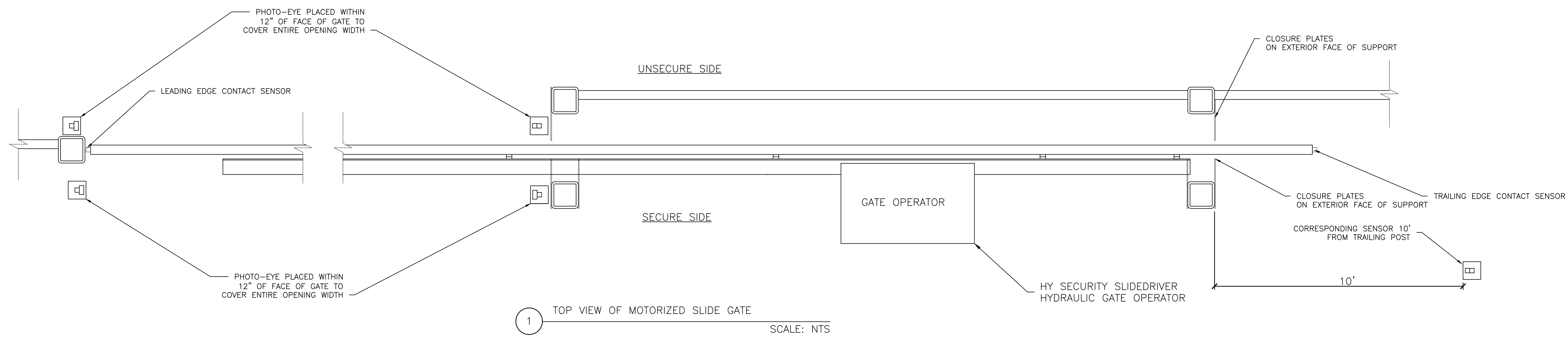
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DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPYINTER@PAYINTERCONSULTING.COM

SHEET TITLE:
INSTALLATION DETAILS
PHYSICAL SECURITY

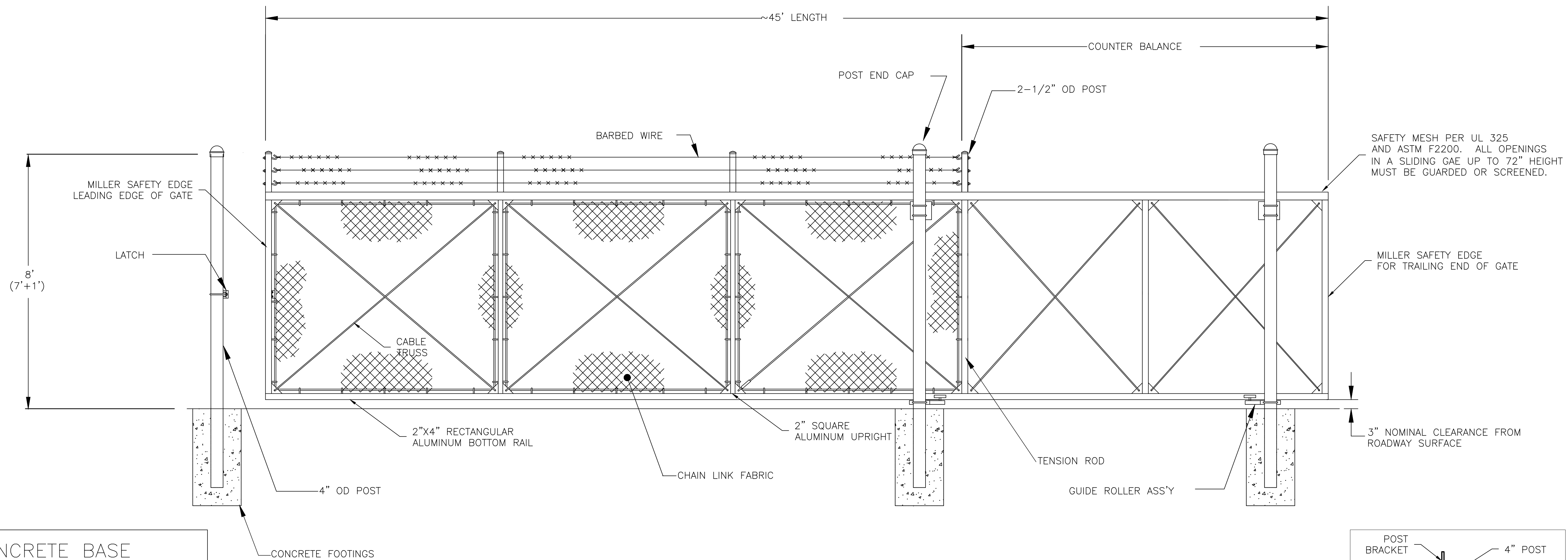
SHEET NO:
EY-5002

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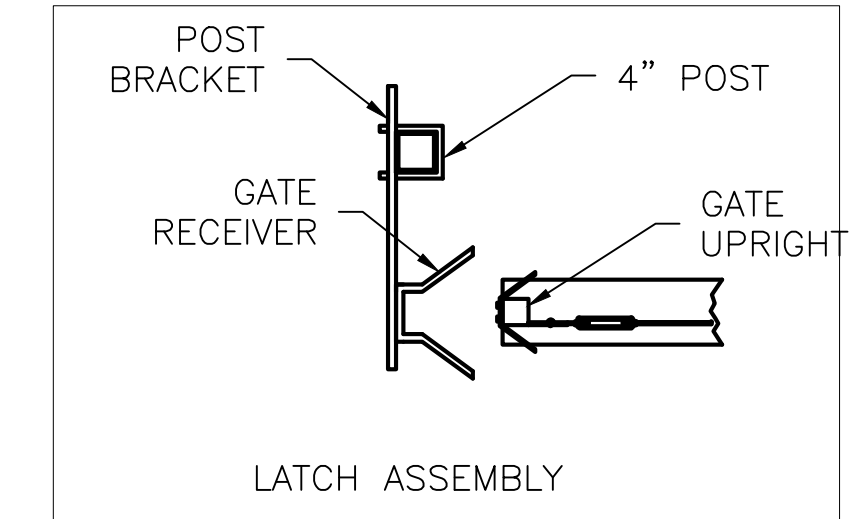
1 TOP VIEW OF MOTORIZED SLIDE GATE
SCALE: NTS



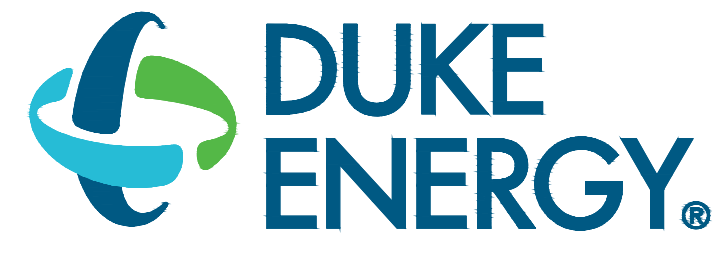
2 TYPICAL- MERCHANT METAL SECURE TRAC GATE
SCALE: NTS

| CONCRETE BASE | | |
|---------------|-------|----------|
| FENCE HEIGHT | DEPTH | DIAMETER |
| 7-8 | 40" | 12" |

NOTE: CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH (f'c)= 4000 psi



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Safety Expectations:

ILLNESS ZERO INJURY ZERO

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

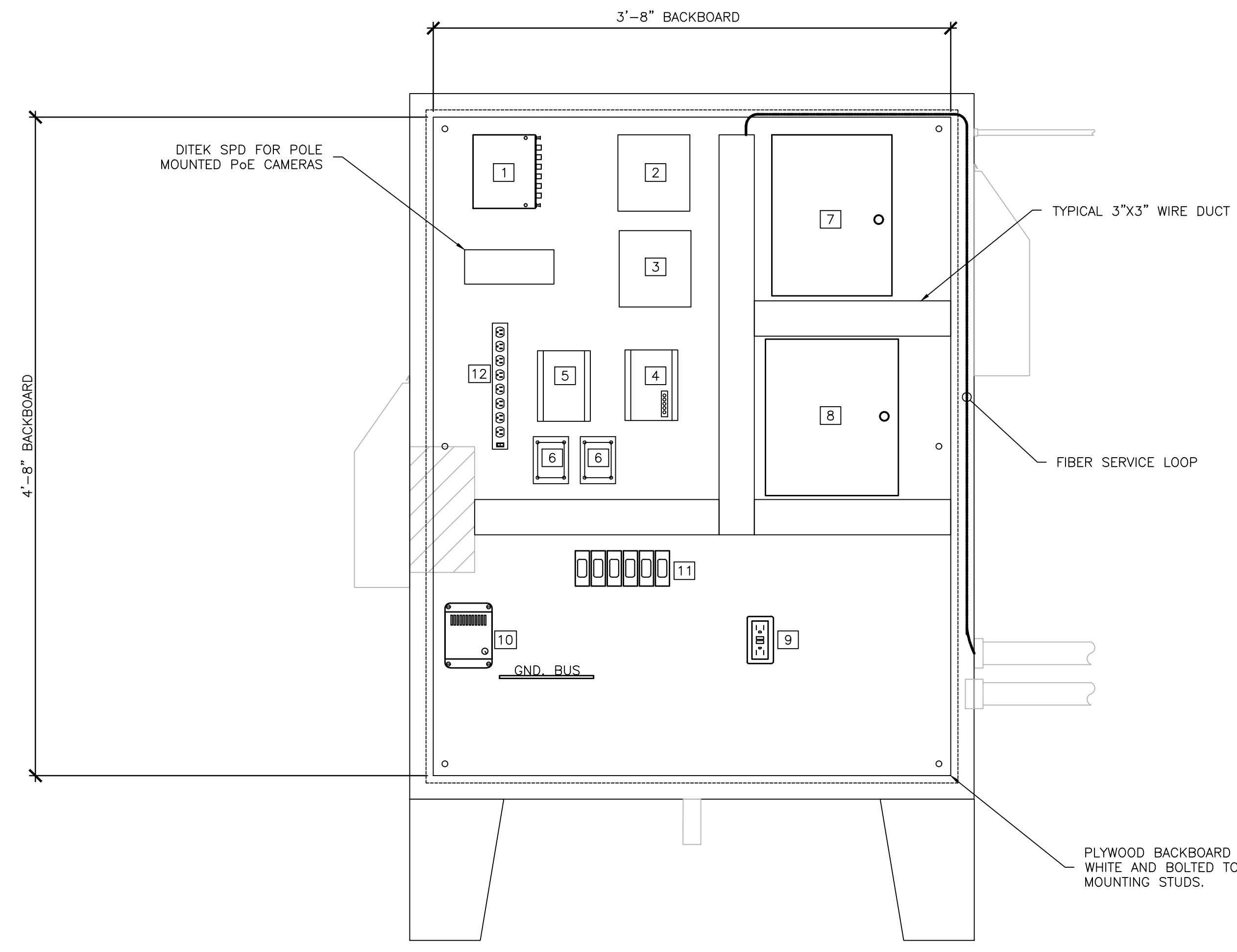
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PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-5003-0000000**
ELECTRONIC FILE NAME: EY-5003
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPWINTER@PANTERCONSULTING.COM

SHEET TITLE:
INSTALLATION DETAILS
PHYSICAL SECURITY

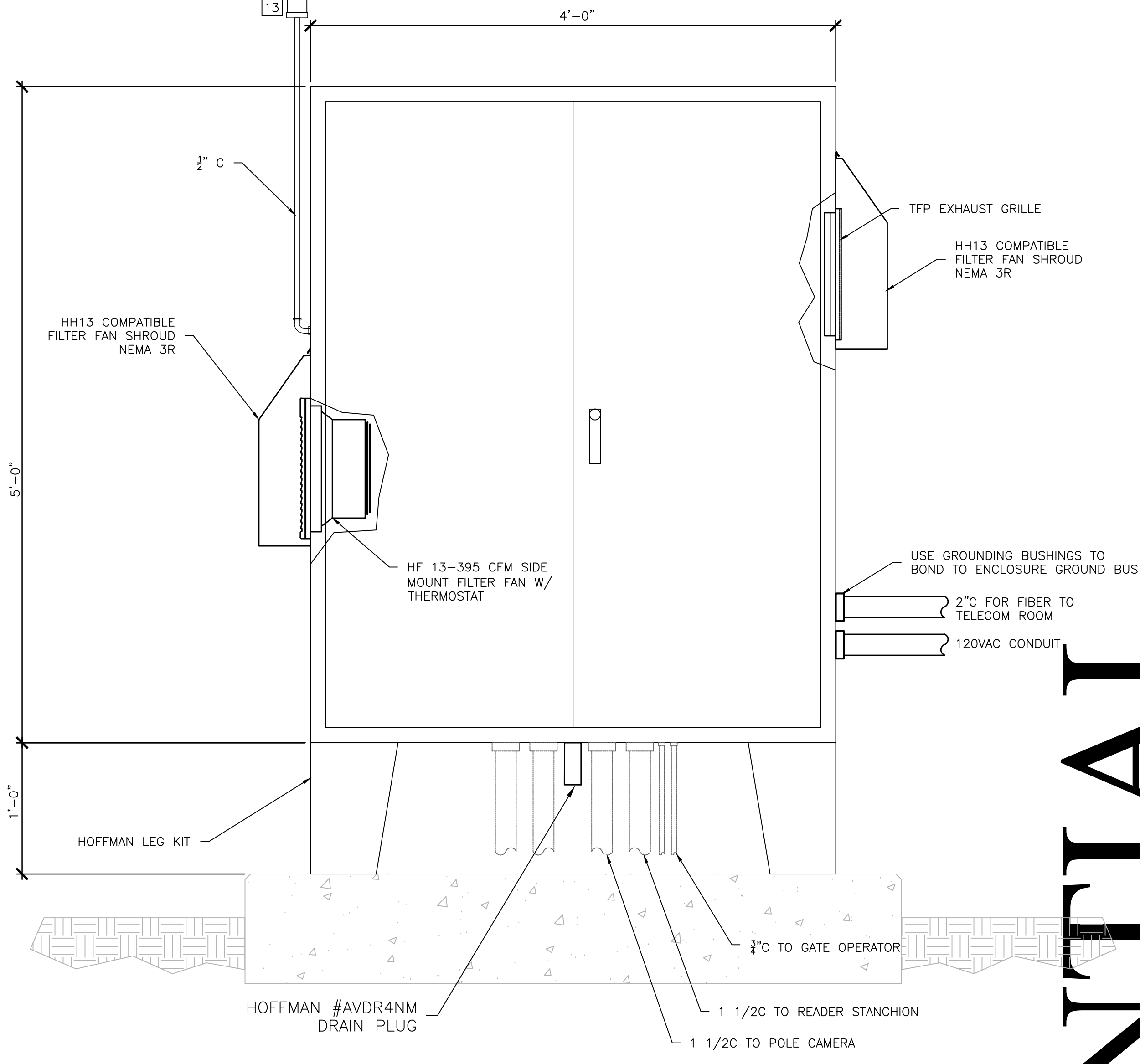
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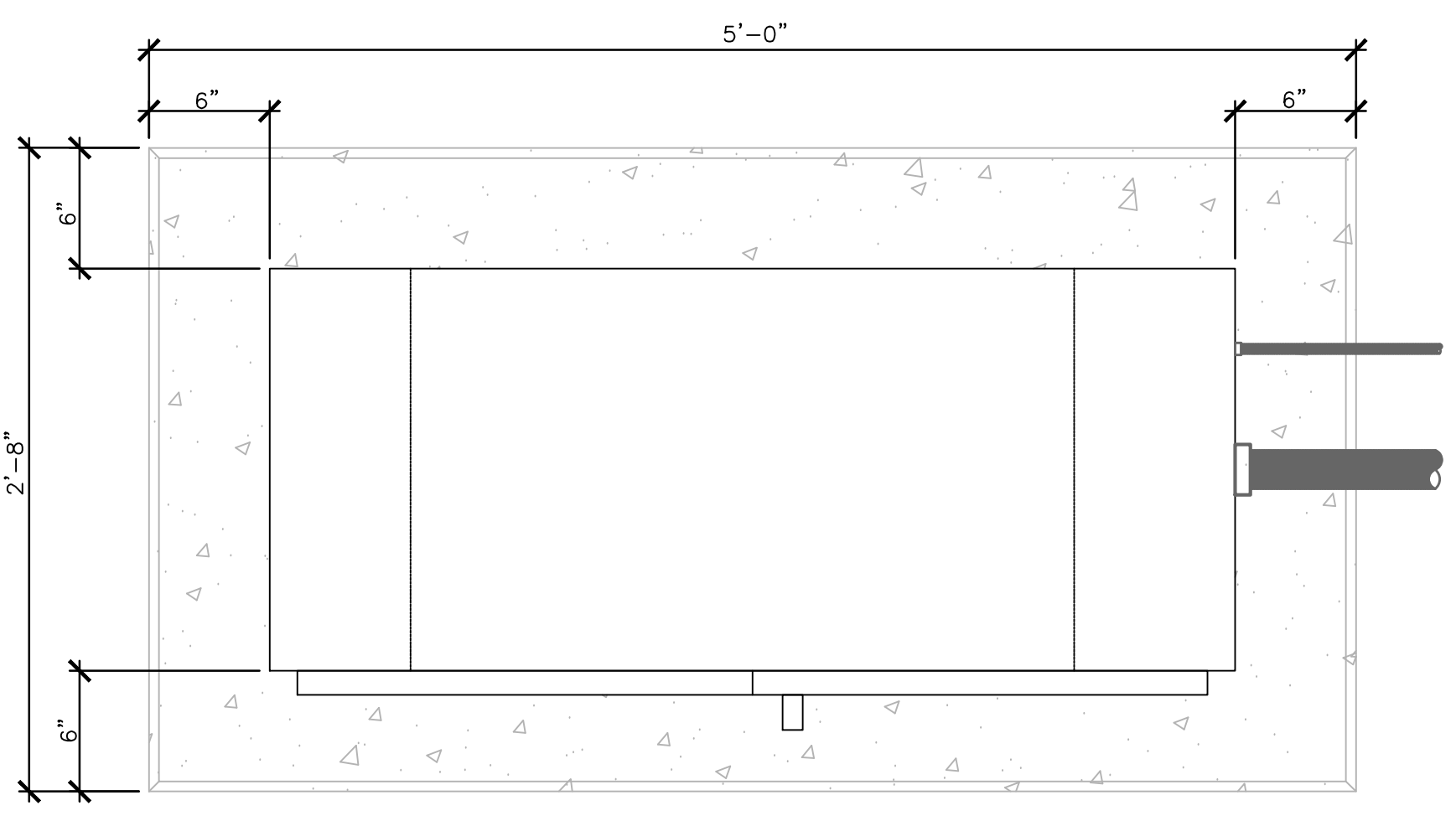


1 TYPICAL - INTERIOR LAYOUT NEMA 4 ENCLOSURE SCALE: NTS

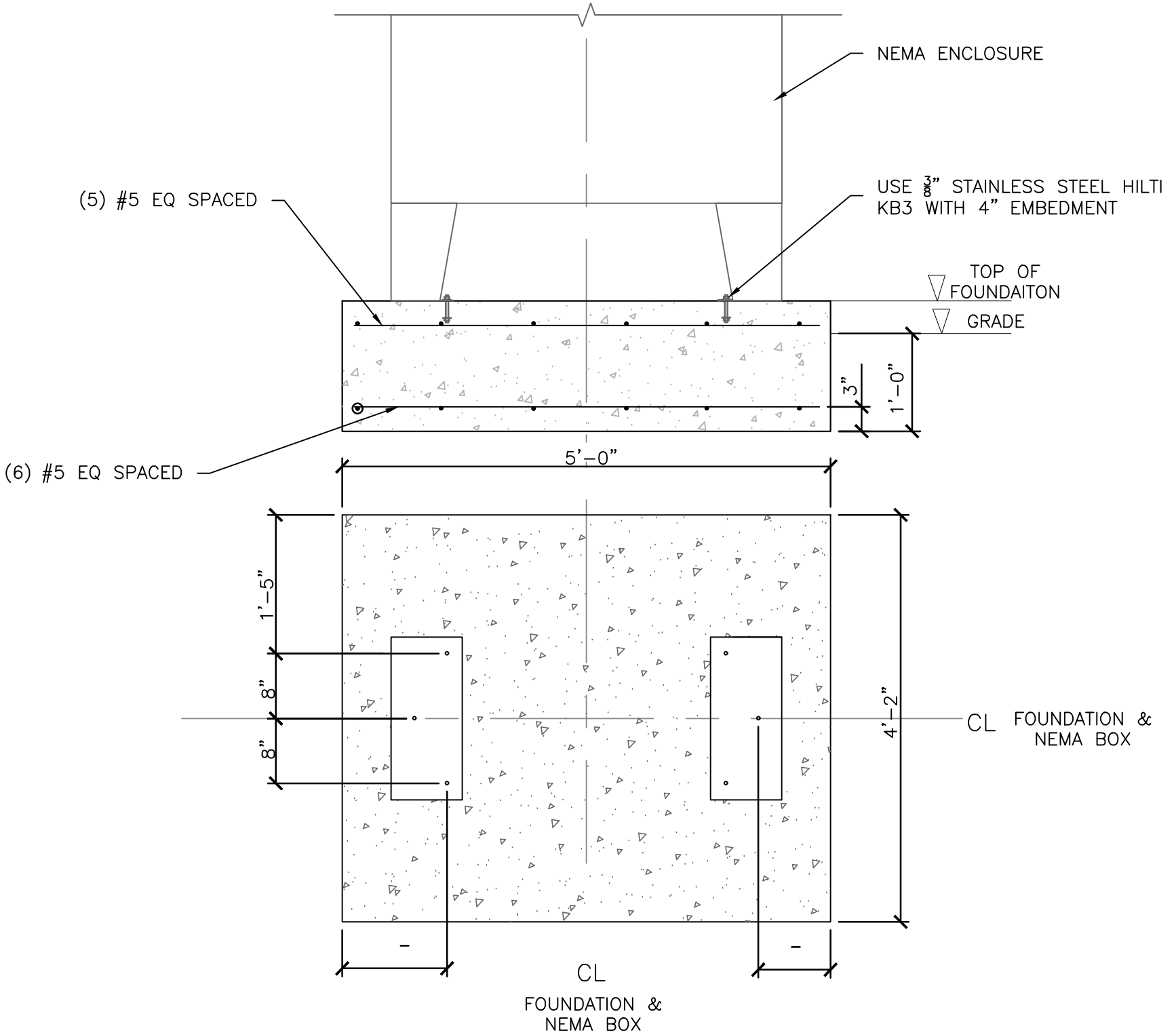
- DETAILS 1 AND 2 KEY NOTES:**
- CORNING 8-PORT FDP BY UNIVERSAL VOICE & DATA.
 - CISCO IE-4000 15-30 WATT POE+ 8 PORT SWITCH FOR PACS NETWORK CONNECTION BY DUKE ENERGY TELECOM.
 - PoE++ 8-PORT HARDENED SWITCH PERP FOR VMS BY MOTOROLA SOLUTIONS INC.
 - CISCO IE170W POWER SUPPLY FOR IE4000 SWITCH BY DUKE ENERGY TELECOM.
 - 48VDC POWER SUPPLY FOR VMS PoE SWITCH BY MOTOROLA SOLUTIONS INC.
 - AMAG SR-WIU FOR CARD READER BY SECURITY CONTRACTOR.
 - AMAG SR-2000 ACCESS CONTROL PANEL BY SECURITY CONTRACTOR.
 - ALTRONIX 176ULB LINEAR POWER SUPPLY FOR LONG RANGE READER.
 - 125V, 20A RECEPTACLE IN HANDI-BOX BY ELECTRICAL CONTRACTOR.
 - HOFFMAN #DAH-1001A 200W HEATER WITH INTEGRAL THERMOSTAT BY ELECTRICAL CONTRACTOR. MAINTAIN 1" CLEARANCE ON BACK AND SIDES AND 4" ON TOP.
 - DITEK SPD FOR CARD READERS, AND POWER SUPPLIES BY SECURITY CONTRACTOR.
 - TRIPP-LITE UL620-15 POWER STRIP AS NEEDED BY SECURITY CONTRACTOR.
 - SECO-LARM SL-126A240/A STROBE WITH BUILT-IN 100 DB PIEZO USED FOR PRE-ALARM GATE OPENING AND CLOSING BY GATE CONTRACTOR. INSTALL DEVICE PER UL325 STANDARDS.



2 TYPICAL - EXTERIOR OF NEMA ENCLOSURE SCALE: NTS



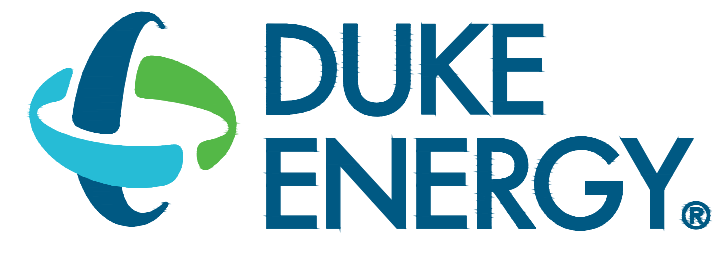
3 TYPICAL - TOP EXTERIOR VIEW OF NEMA ENCLOSURE SCALE: NTS



4 TYPICAL - NEMA ENCLOSURE FOUNDATION SCALE: NTS

- GENERAL NOTES:**
- INSTALL ALL CONDUIT AND ENCLOSURES SUCH THAT FIBER SERVICE LOOP MAY BE INSTALLED BEHIND CONDUIT AND EQUIPMENT.
 - WITHIN ENCLOSURE USE FLEX OR MC FOR 120V POWER FOR THE EXHAUST FAN WIRING. SECURE TO PLYWOOD BACKBOARD WITH ONE-HOLE STRAPS. OTHERWISE MAINTAIN 3/2" MINIMUM CLEARANCE.
 - ALL FIBER, LV COPPER AND POWER WIRING NOT ASSOCIATED WITH THIS NEMA ENCLOSURE CONTINUES UNSPLICED TO THE NEXT BOX OR BUILDING.
 - ALL FIBER, LV COPPER WIRING TO BE SECURED TO PLYWOOD BACKBOARD WITH VELCO STRAPS SECURED TO PLYWOOD WITH FASTENERS.
 - UNIVERSAL VOICE AND DATA TO INSTALL ALL FIBER, CONNECTORS, FIBER PATCH CABLE, AND FIBER DISTRIBUTION PANELS.
 - DUKE ENERGY TELECOM TO TERMINATES ALL CISCO SWITCH RELATED FIBER.
 - FURNISH AND INSTALL A FLUSH QUAZITE STYLE HANDHOLE NEXT TO THE NEMA ENCLOSURE. ALL UNDERGROUND CONDUIT SHALL BE ROUTED TO THE QUAZITE HANDHOLE. BRING IN THE AMOUNT OF CONDUIT AS NEEDED FOR THE NEMA ENCLOSURE RATHER THAN PASSING NON-SECURITY RELATED CABLE THROUGH NEMA ENCLOSURE.
 - FURNISH AND INSTALL 3/2" THICK FIRE RATED PLYWOOD BACKBOARD (PAINTED WHITE, DO NOT PAINT OVER FIRE RATED SEAL). DRILL MOUNTING HOLES AS NEEDED TO MATCH AND ALIGN WITH THE PRE-INSTALLED 3/2" PANEL MOUNTING STUDS LOCATED ON THE BACK WALL OF THE ENCLOSURE. CUT PLYWOOD TO MATCH BACK WALL DIMENSIONS OF ENCLOSURE. MOUNT EQUIPMENT FOR THIS ENCLOSURE ON THE PLYWOOD BACKBOARD AND MAINTAIN 1" MINIMUM STANDOFF FROM HEATER.
 - UNIVERSAL VOICE AND DATA TO PROVIDE A 20' FIBER SERVICE LOOP PRIOR TO TERMINATION INSIDE THE NEMA ENCLOSURE AND A 50' FIBER SERVICE LOOP PRIOR TO TERMINATION INSIDE THE TELECOM ROOM. USE ALLENTEL #GB20 TO SUPPORT FIBER SERVICE LOOP.
 - PROVIDE 4000 PSI CONCRETE SUPPORT PAD FOR THE NEMA ENCLOSURE. PAD SHALL BE 10" HIGH, 6" BELWS GRADE, 4" GRADE. CHAMFER TOP OF PAD EDGES.
 - CONTRACTORS TO ARRANGE EQUIPMENT WITHIN ENCLOSURE BASED ON LEFT HAND OR RIGHT HAND ENTRY OF FIBER OPTIC CABLE.
 - FOR ALL DEVICE LABELING REQUIREMENTS REFER TO EY-0002.

CONFIDENTIAL



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CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO Reduce Risk
INJURY ZERO Remove Exposures to Hazards
DEATH ZERO Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

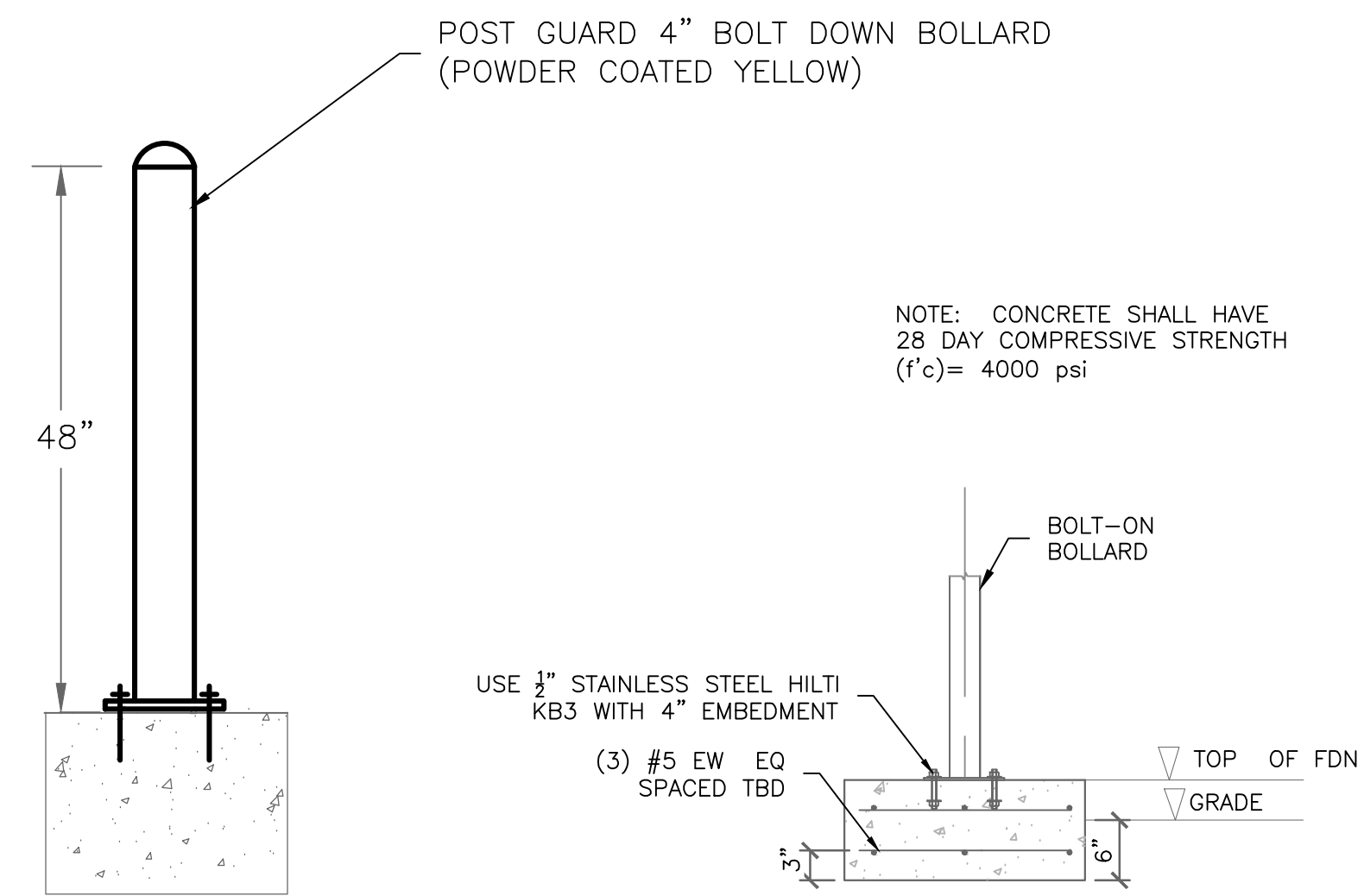
DUNN, NC

| MARK | DATE | DRYBY | REVISION | ISSUED FOR CONSTRUCTION |
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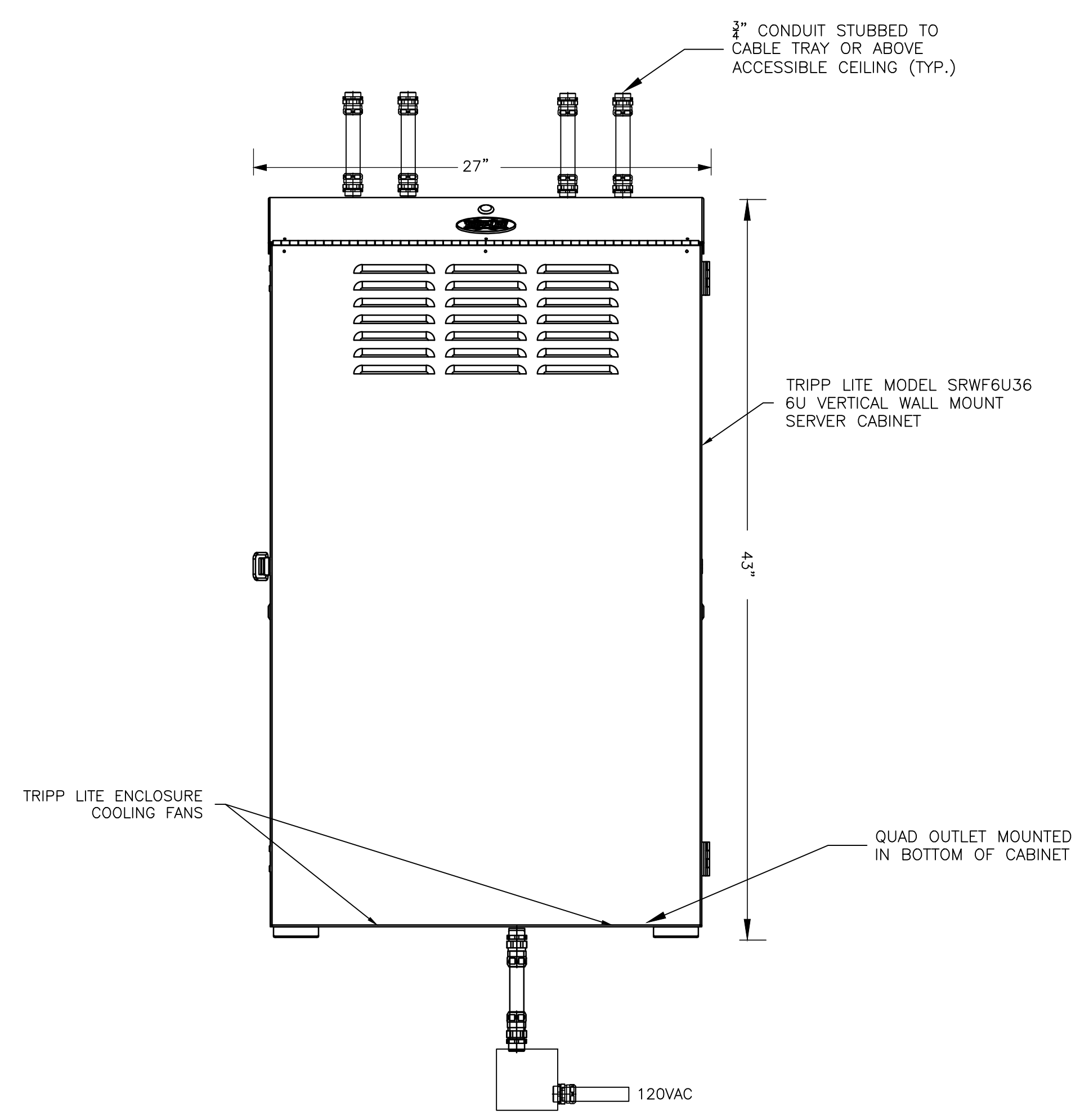
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DRAWING NUMBER: **CFD-PN0000-EY-5004-0000000**
ELECTRONIC FILE NAME: EY-5004
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPYINTER@PAYINTERCONSULTING.COM

SHEET TITLE:
INSTALLATION DETAILS
PHYSICAL SECURITY

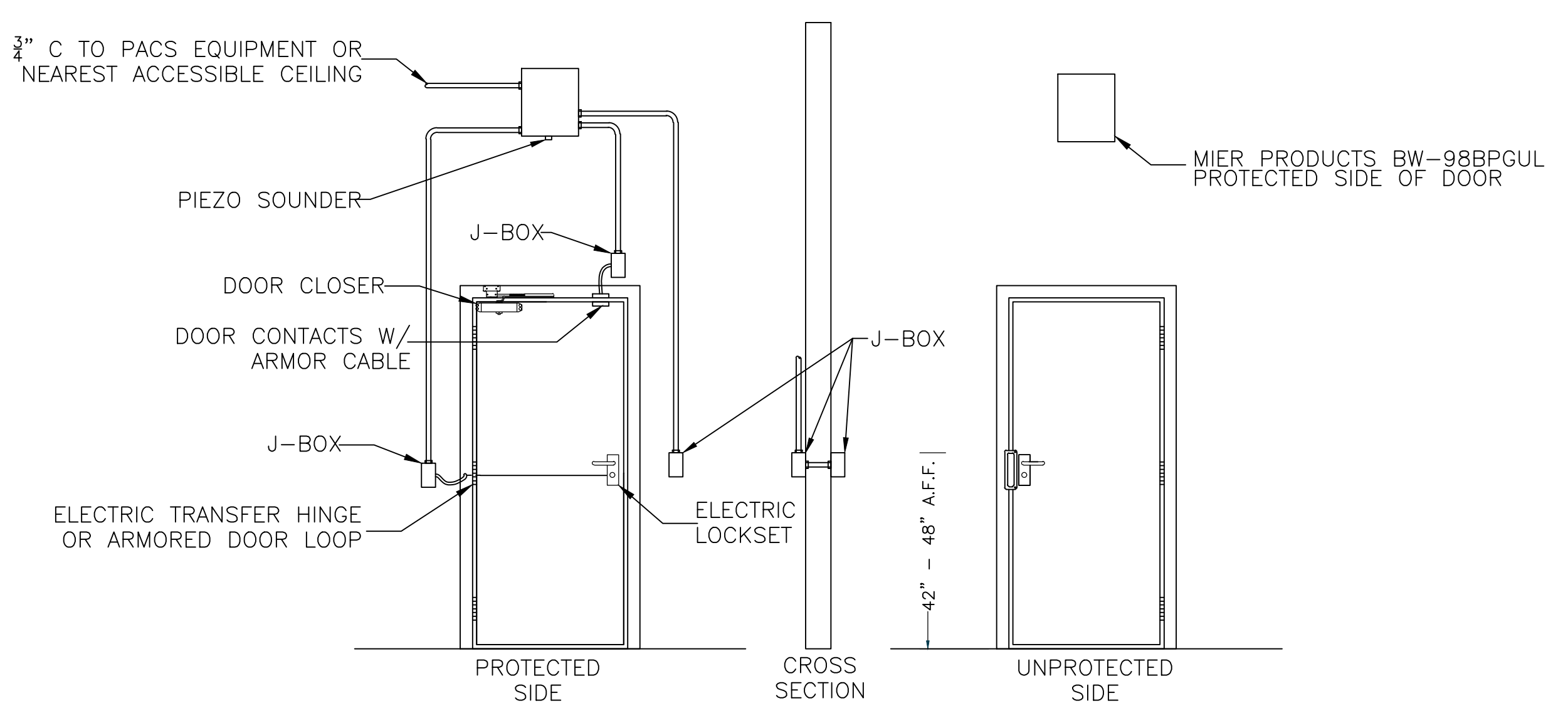
SHEET NO.
EY-5004



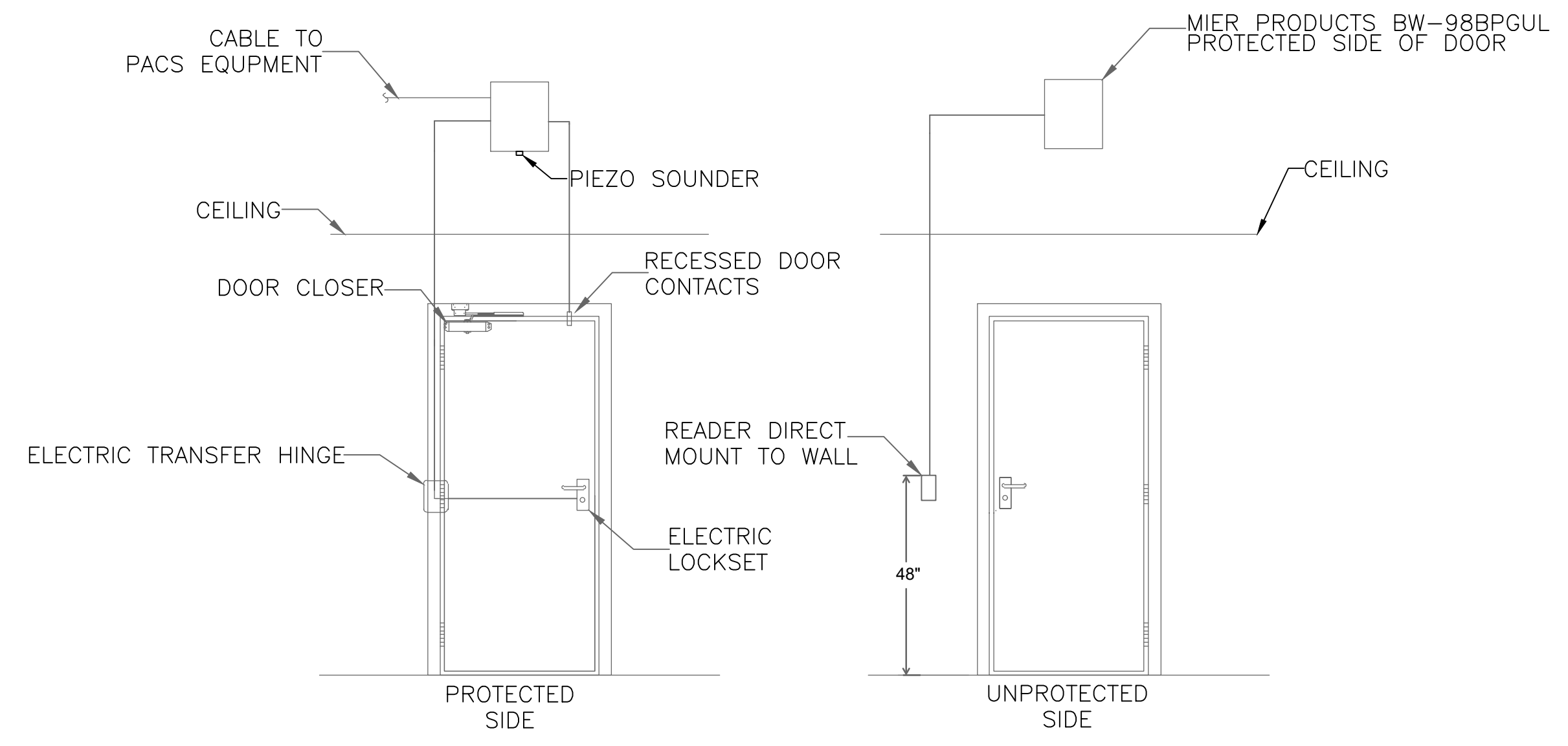
1 TYPICAL - BOLT ON BOLLARDS SCALE: NTS



2 TYPICAL - WALL MOUNTED VIDEO EQUIPMENT CABINET SCALE: NTS

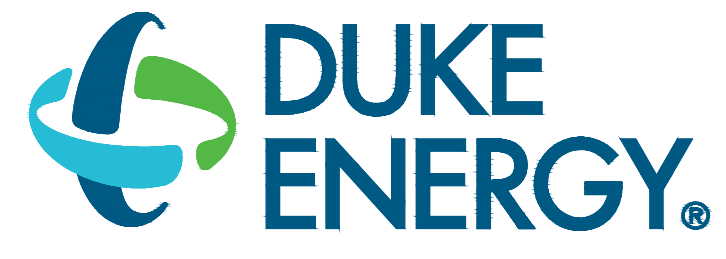


3 TYPICAL - CARD READER WITH CONDUIT SCALE: NTS



4 TYPICAL - CARD READER WITHOUT CONDUIT SCALE: NTS

CONFIDENTIAL



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CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY ZERO

Reduce Risk
Remove Exposures to Hazards
Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

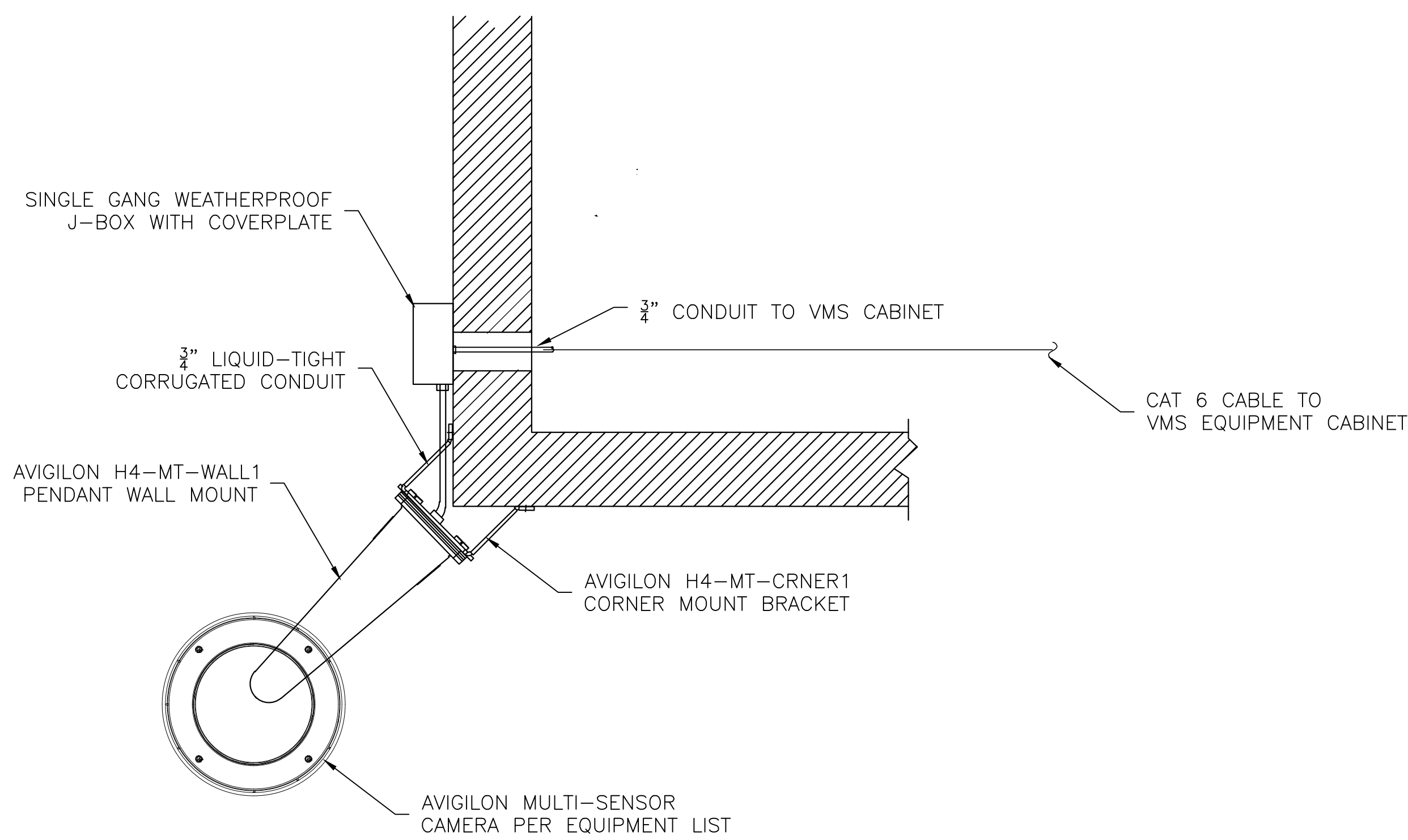
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PROJECT NO: 00000
DRAWING NUMBER: CFD-PN0000-EY-5005-0000000
ELECTRONIC FILE NAME: EY-5005
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAYINTERCONSULTING.COM

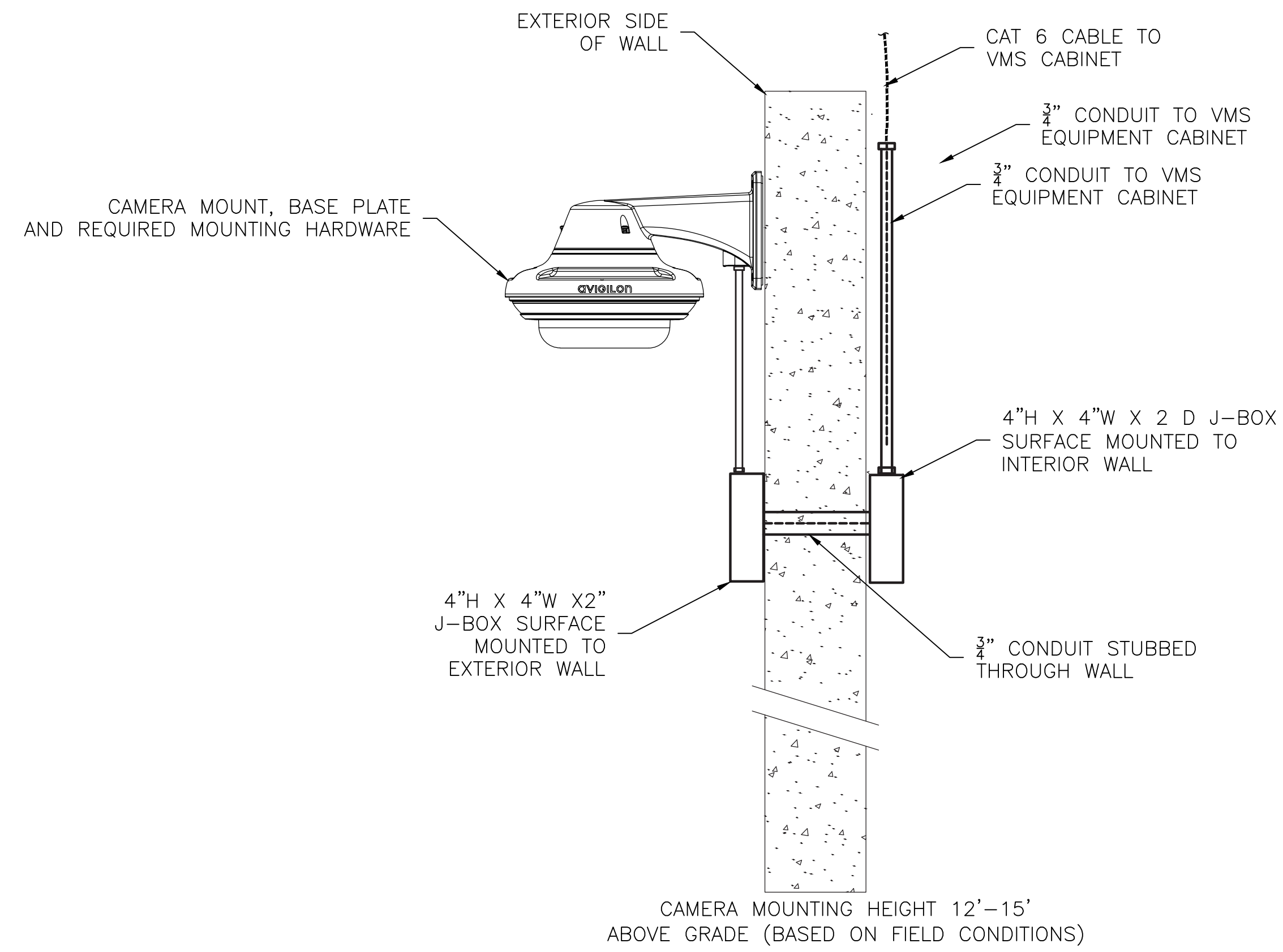
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SHEET TITLE:
INSTALLATION DETAILS
PHYSICAL SECURITY

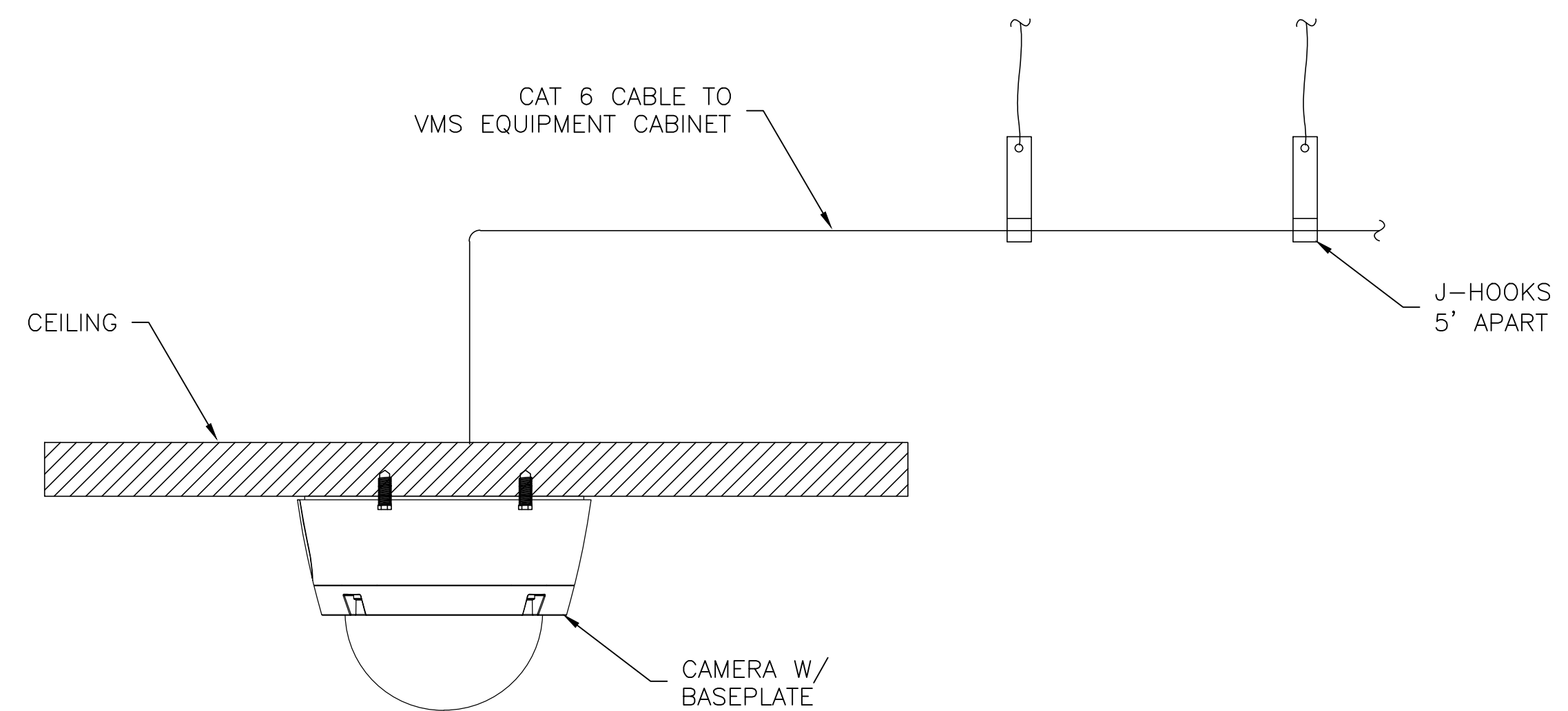
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EY-5005



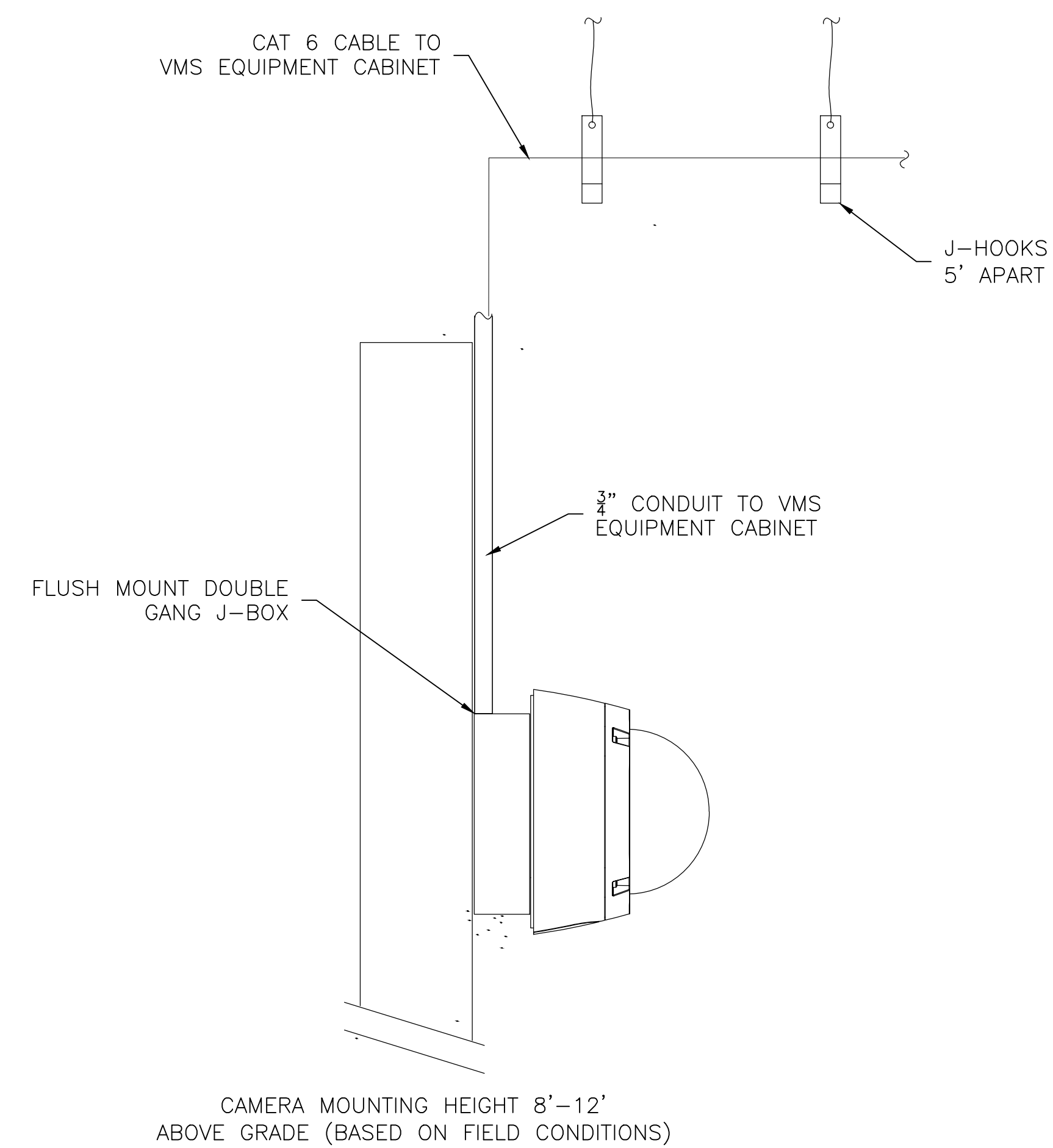
1 TYPICAL - EXTERIOR CORNER MOUNT CAMERA SCALE: NTS



2 TYPICAL - EXTERIOR WALL MOUNT CAMERA SCALE: NTS

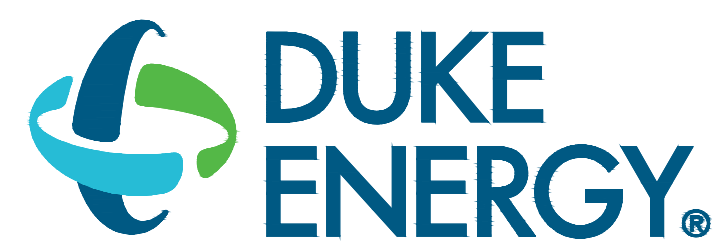


3 TYPICAL - CEILING MOUNTED CAMERA SCALE: NTS



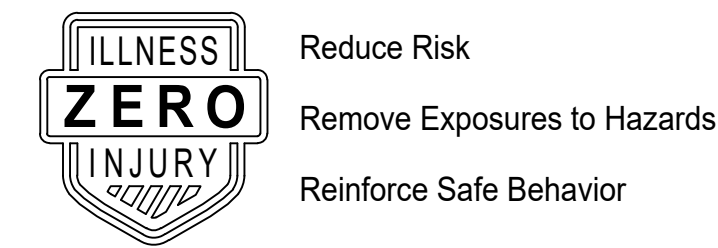
4 TYPICAL - INTERIOR WALL MOUNT CAMERA SCALE: NTS

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Safety Expectations:



SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

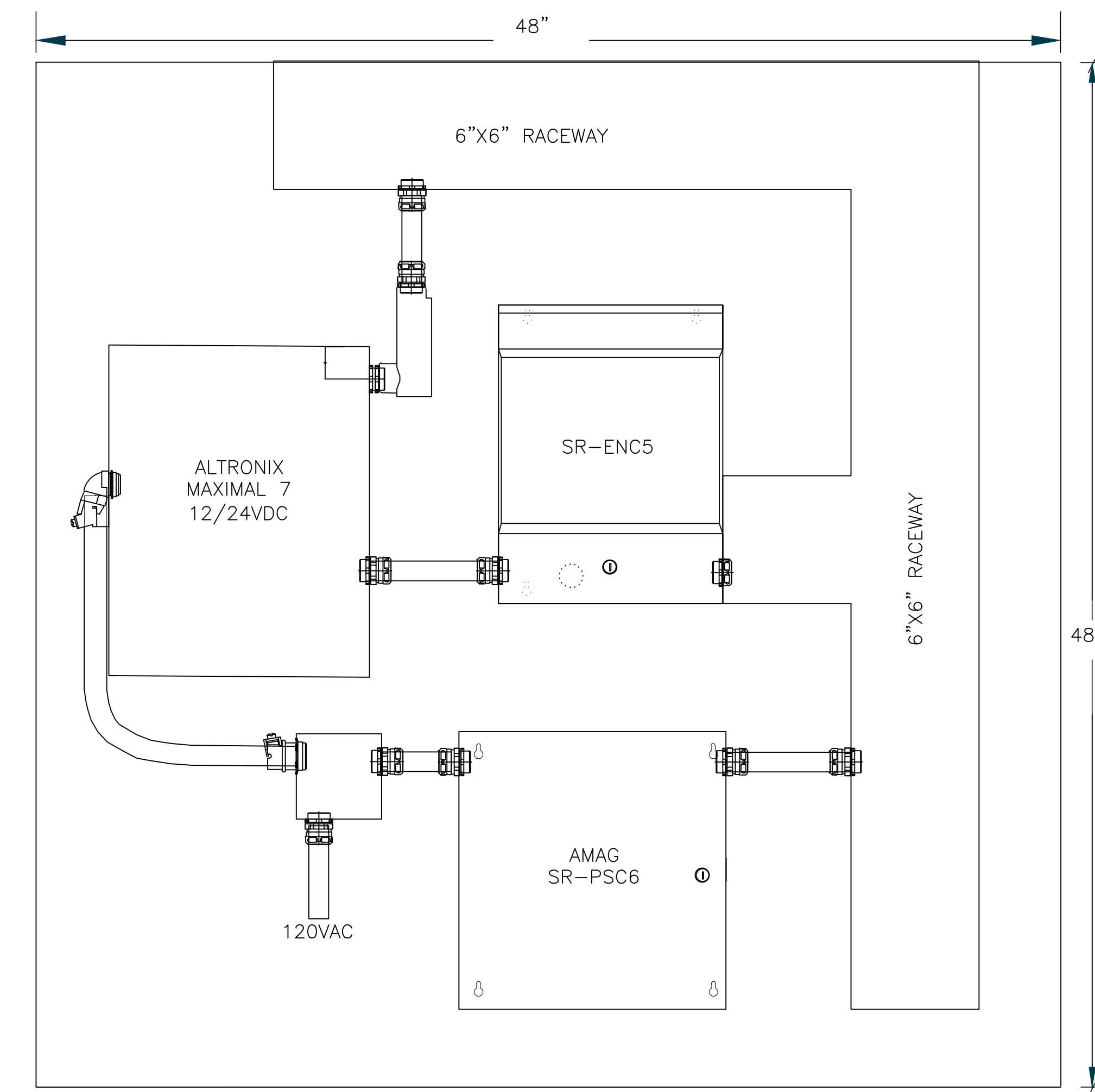
| MARK | DATE | BY | REVISION |
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PROJECT NO: 00000
DRAWING NUMBER: CFD-PN0000-EY-5006-0000000
ELECTRONIC FILE NAME: EY-5006
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAINTERCONSULTING.COM

SHEET TITLE:
**INSTALLATION DETAILS
PHYSICAL SECURITY**

SHEET NO:
EY-5006

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1 TYPICAL -PACS EQUIPMENT LAYOUT

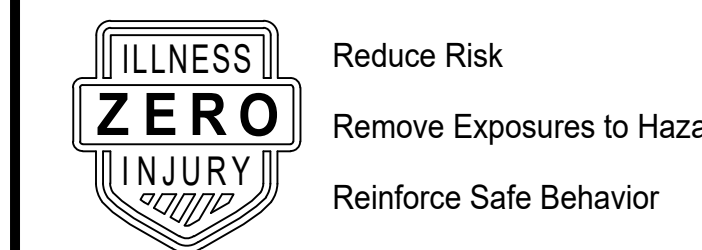
SCALE: NTS

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MAILING ADDRESS:
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CHARLOTTE, NC 28201

Safety Expectations:



SEAL

**DUNN OPERATIONS
MOBILE SUBSTATION STORAGE**

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| MARK | DATE | DESCRIPTION |
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PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-5007-0000000**
ELECTRONIC FILE NAME: EY-5007
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAINTERCONSULTING.COM

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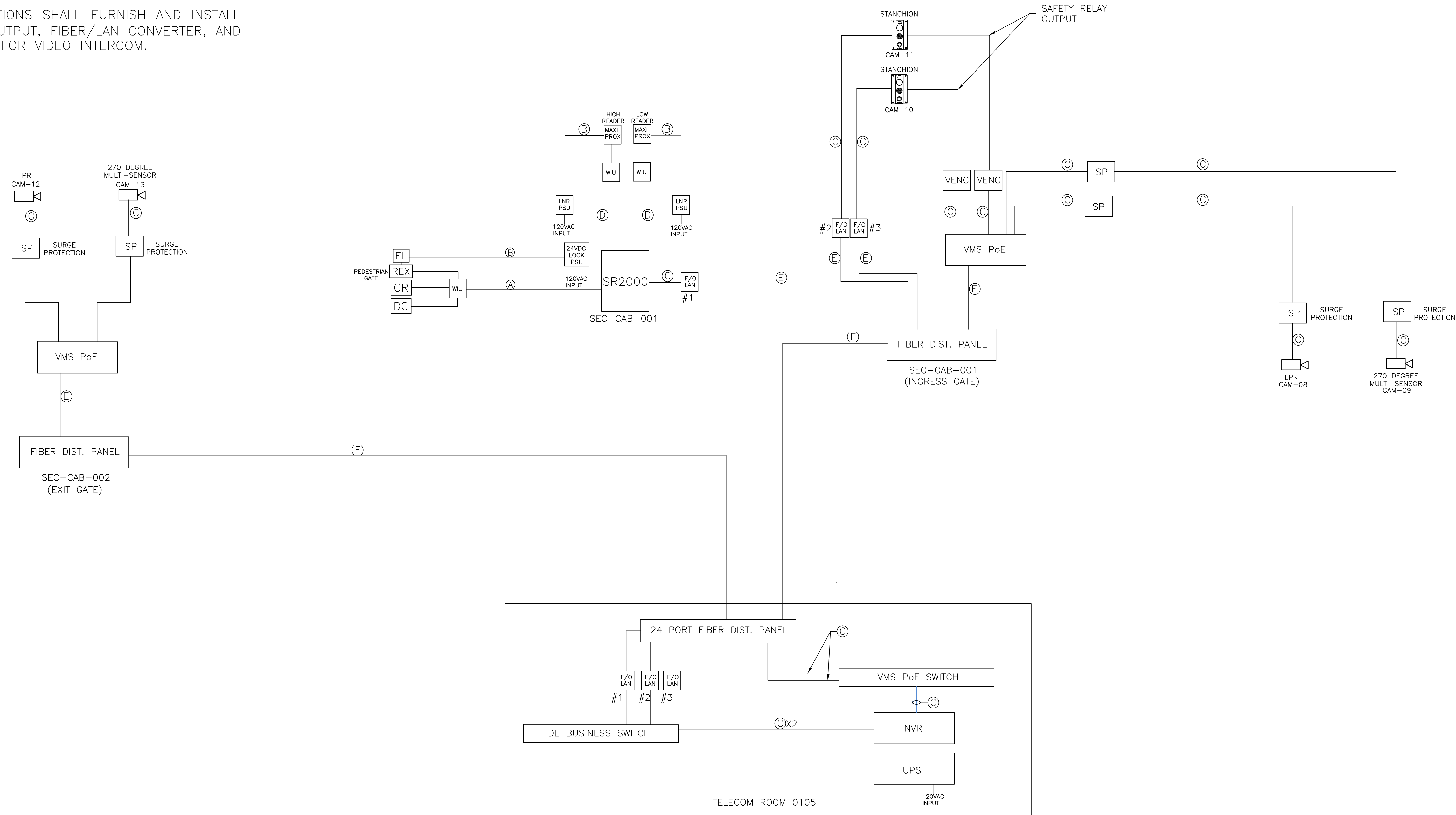
SHEET TITLE:
**INSTALLATION DETAILS
PHYSICAL SECURITY**

SHEET NO:
EY-5007

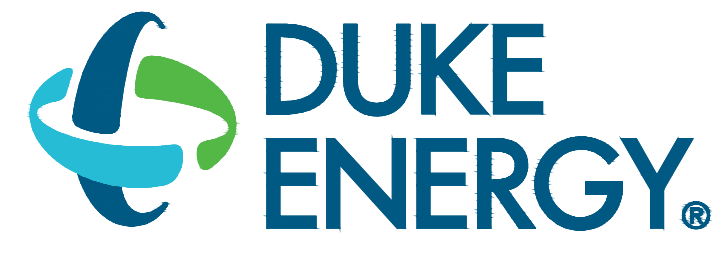
GENERAL NOTES:

- CAT 6 PATCH CABLES FOR PACS CONTROLLER TO THE DE BUSINESS NETWORK SWITCH SHALL BE FURNISHED AND INSTALLED BY UNIVERSAL VOICE AND DATA.
- CAT 6 CABLE FROM CAMERAS TO VMS PATCH PANEL SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
- NETWORK VIDEO RECORDER (NVR) SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
- VMS PoE HARDENED SWITCHES IN NEMA ENCLOSURES SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
- SURGE PROTECTION DEVICES FOR CAMERAS SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
- FIBER OPTIC CABLE FROM VEHICLE GATE TO TELECOM ROOM SHALL BE FURNISHED AND INSTALLED BY UNIVERSAL VOICE AND DATA.
- FIBER DISTRIBUTION PANELS AND CONNECTORS SHALL BE FURNISHED AND INSTALLED BY UNIVERSAL VOICE AND DATA.
- LOW VOLTAGE CABLE FOR PACS EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY SECURITY CONTRACTOR.
- MOTOROLA SOLUTIONS SHALL FURNISH AND INSTALL SAFETY RELAY OUTPUT, FIBER/LAN CONVERTER, AND VIDEO ENCODER FOR VIDEO INTERCOM.

| SECURITY CABLE LEGEND | |
|-----------------------|-------------------------------|
| A | (1) 22AWG/6C AND (1) 18AWG/2C |
| B | (1) 18AWG/2C |
| C | (1) CAT 6 |
| D | (1) 22AWG/6C |
| E | (2) FIBER PATCH CABLES |
| F | 12 OM3 (50 MICRON) MM |



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MAILING ADDRESS:
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CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY ZERO

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

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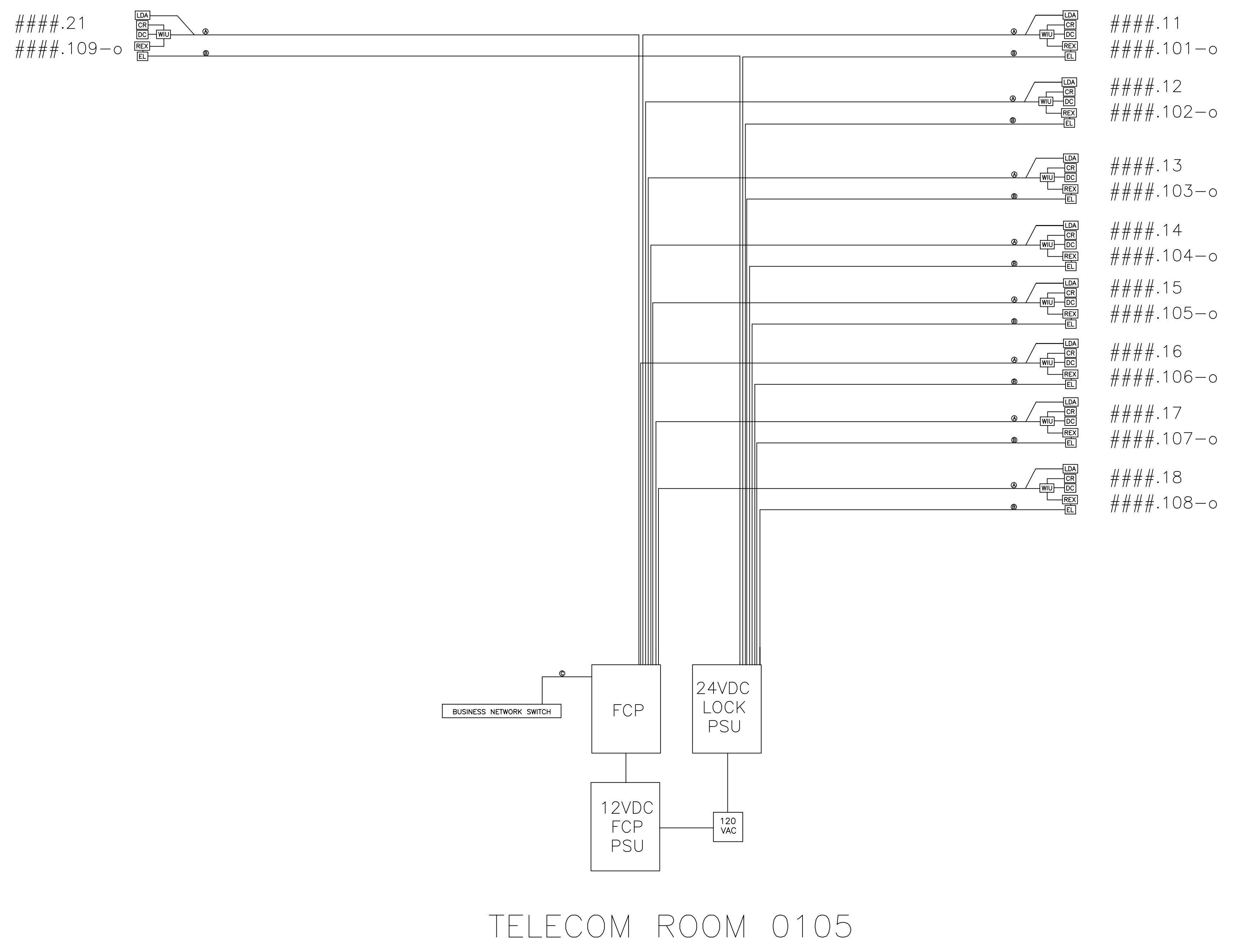
PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-7001-00000000**
ELECTRONIC FILE NAME: EY-7001
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAINTERCONSULTING.COM

SHEET TITLE:
RISER DIAGRAM
VEHICLE GATES

SHEET NO:
EY-7001

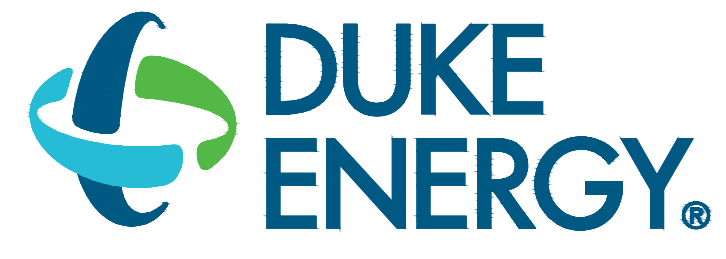
| SECURITY CABLE LEGEND | |
|-----------------------|-------------------------------|
| A | (1) 22AWG/6C AND (1) 18AWG/2C |
| B | (1) 18AWG/2C |
| C | (1) CAT 6 |
| D | (1) 22AWG/6C |
| E | (2) FIBER PATCH CABLES |
| F | 12 OM3 (50 MICRON) MM |

- GENERAL NOTES**
- UNLESS OTHERWISE NOTED ALL CABLE SHOWN ON THE RISER DIAGRAM SHALL BE FURNISHED AND INSTALLED BY THE SECURITY CONTRACTOR.
 - 125M FIBER OPTIC CABLE FROM EACH GATE TO THE TELECOM ROOM SHALL BE FURNISHED AND INSTALLED BY DUKE ENERGY TELECOM SUBCONTRACTOR.
 - FIBER DISTRIBUTION CABINETS (FDC) SHALL BE FURNISHED AND INSTALLED BY DUKE ENERGY TELECOM SUBCONTRACTOR.
 - BUSINESS NETWORK P/E SWITCH AND EQUIPMENT RACK SHALL BE FURNISHED AND INSTALLED BY DUKE ENERGY TELECOM.
 - SECURITY CONTRACTOR SHALL FURNISH ALL PACS RELATED EQUIPMENT SHOWN ON THE RISER DIAGRAM.
 - SECURITY CONTRACTOR SHALL FURNISH AND INSTALL FIBER / LAN MEDIA CONVERTERS SHOWN ON THE RISER DIAGRAM.
 - SURGE PROTECTION DEVICES FOR LPR CAMERAS SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.



TELECOM ROOM 0105

CONFIDENTIAL



MAILING ADDRESS:
P.O. BOX 1007
CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY ZERO

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

SEAL

**DUNN OPERATIONS
MOBILE SUBSTATION STORAGE**

DUNN, NC

| MARK | DATE | BY | REVISION |
|------|----------|----|-------------------------|
| 1 | 05/24/23 | BP | ISSUED FOR CONSTRUCTION |

PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-7002-0000000**
ELECTRONIC FILE NAME: EY-7002
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PANTERCONSULTING.COM

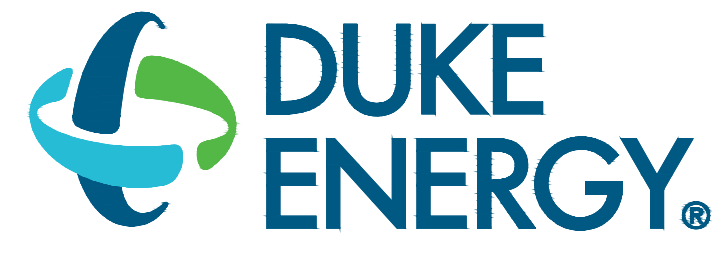
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SHEET TITLE:
**RISER DIAGRAM
BUILDING ACCESS CONTROL SYSTEM**

SHEET NO:
EY-7002

| SECURITY CABLE LEGEND | |
|-----------------------|-------------------------------|
| A | (1) 22AWG/6C AND (1) 18AWG/2C |
| B | (1) 18AWG/2C |
| C | (1) CAT 6 |
| D | (1) 22AWG/6C |
| E | (2) FIBER PATCH CABLES |
| F | 12 OM3 (50 MICRON) MM |

- GENERAL NOTES:
- CAT 6 CABLE FROM CAMERAS TO PATCH PANELS SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
 - NVR, POE SWITCH AND VMS PATCH PANEL SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
 - UNLESS OTHERWISE NOTED, ALL CABLE SHOWN ON THE RISER DIAGRAM IS CAT 6.
 - HEAD-END VMS EQUIPMENT SHALL BE MOUNTED IN WALL MOUNTED EQUIPMENT CABINET FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.
 - SURGE PROTECTION DEVICES FOR EXTERIOR CAMERAS SHALL BE FURNISHED AND INSTALLED BY MOTOROLA SOLUTIONS.



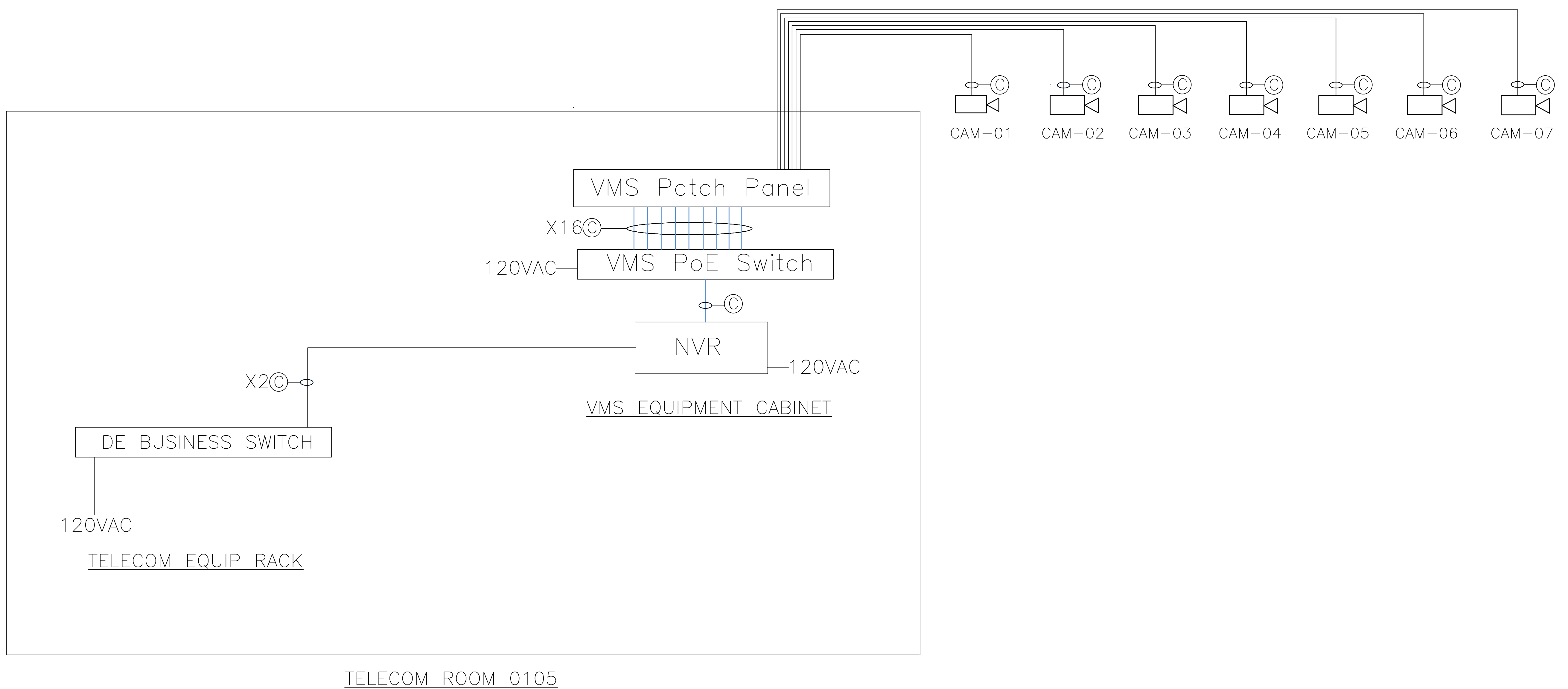
MAILING ADDRESS:
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CHARLOTTE, NC 28201

Safety Expectations:

ILLNESS ZERO INJURY

- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

CONFIDENTIAL



SEAL

DUNN OPERATIONS
MOBILE SUBSTATION STORAGE

DUNN, NC

| MARK | DATE | DESCRIPTION | ISSUED FOR CONSTRUCTION |
|------|----------|-------------|-------------------------|
| 1 | 05/24/23 | BP | ISSUED FOR CONSTRUCTION |

PROJECT NO: 00000
DRAWING NUMBER: **CFD-PN0000-EY-7003-0000000**
ELECTRONIC FILE NAME: EY-7003
DRAWN BY: BP 05/24/23
CHK'D BY: BP 05/24/23
E-MAIL: BPAINTER@PAINTERCONSULTING.COM

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SHEET TITLE:
RISER DIAGRAM
BUILDING VIDEO MGMT SYSTEM

SHEET NO.
EY-7003