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**ADDENDUM NO. 3 TO PROJECT NO. 42534-E**

**ELECTRICAL WORK  
UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE  
GREAT MEADOW CORRECTIONAL FACILITY  
ROUTE 22  
COMSTOCK, NY 12821**

November 10, 2014

**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.

**SPECIFICATION GROUP**

1. SECTION 071113 BITUMINOUS DAMPPROOFING: Add the accompanying Section (page 071113 – 1) noted “Added 11/3/2014” to the Project Manual.
2. SECTION 071326 RUBBERIZED ASPHALT SHEET MEMBRANE WATERPROOFING SYSTEM: Discard the Section bound in the Project Manual in its entirety.
3. SECTION 312316 ROCK REMOVAL: Add the accompanying Section (pages 312316 – 1 thru 312316 – 4) noted “Added 11/3/2014” to the Project Manual.
4. SECTION 337119 ELECTRIC MANHOLES:
  - a. Page 337119 – 1, Change Paragraph 1.01, B to read as follows:

“B. Bituminous Dampproofing: Section 071113.”
  - b. Page 337119 – 2, Change Paragraph 2.01, D to read as follows:

“D. Brick shall comply with the Specifications for Sewer Brick, Grade MS, ASTM C32.”
  - c. Page 337119 – 4, Change Subparagraph 3.02, D, 1 to read as follows:

“1. New Manholes Containing Feeder Circuits Over 600 Volts to:
    - a. Install rod electrode at diagonally opposite corners outside of manhole. Install soft drawn copper around outside perimeter of manhole and connect to ground rods and taps using thermite connectors.
    - b. Bond steel cable support assemblies and splices (lead sheath of splice or cable shields for non-lead type cables) to rod electrode with No. 6 AWG bare copper ground conductor.

- c. Make connection to rod electrode with exothermic type weld or compression connectors.”
- d. Page 337119 – 4, Article 3.02, Add the following Paragraph:
  - “E. Dampproofing: Apply dampproofing to exterior surfaces of manholes after concrete has cured at least three days. After ducts have been connected and grouted, and before backfilling, dampproof joints and connections and touch up abrasions and scars.”

**DRAWINGS**

- 5. Revised Drawings:
  - a. Drawing Nos. E-311, E-401B and E-504, noted “11/03/14 ADDENDUM NO. 3” accompany this Addendum and supersede the same numbered originally issued drawings and same numbered previously issued Addendum drawings.
  - b. Drawing Nos. E-402B and E-503, noted “11/03/14 ADDENDUM NO. 3” accompany this Addendum and supersede the same numbered originally issued drawings.
- 6. Drawing No. G-003, GENERAL NOTES:
  - a. Add the following GENERAL NOTE:
    - “13. INCLUDE IN THE CONTRACT BID PRICE THE REMOVAL AND DISPOSAL OF 500 CUBIC YARDS OF SOUND BEDROCK. SEE SPECIFICATION SECTION 312316 OF THE PROJECT MANUAL FOR VOLUME DETERMINATION AND REMOVAL REQUIREMENTS.”
- 7. Drawing No. E-501, DETAIL 2/E-501:
  - a. PRE-CAST MANHOLE INSTALLATION DETAIL: Change “WATERPROOFING” to read “DAMPPROOFING”.

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

**SECTION 071113**

**BITUMINOUS DAMPPROOFING**

**PART 1 GENERAL**

**1.01 SUBMITTALS**

- A. Product Data: Catalog sheets, specifications and installation instructions, for each material specified.

**1.02 PROJECT CONDITIONS**

- A. Apply dampproofing in clear dry weather. Do not apply dampproofing below 40 degrees F.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

- A. Asphalt Primer: ASTM D 41.
- B. Asphalt Emulsion, heavy duty, fibrated; ASTM D 1227, Type II Class 1.

**PART 3 EXECUTION**

**3.01 PREPARATION**

- A. Comply with manufacturer's printed recommendations for preparation of type of surface shown or indicated to receive dampproofing.
- B. Thoroughly clean surfaces to be dampproofed of soil, debris and all foreign matter. Allow cleaned surfaces to thoroughly dry.
- C. On porous surfaces, except new concrete masonry units, apply a uniform coating of asphalt primer.

**3.02 APPLICATION**

- A. Provide continuous uniform dampproofing coating, 3/32 inch minimum dry thickness, on surfaces shown or scheduled to be dampproofed. Apply dampproofing by brush.
- B. Dampproof vertical wall surfaces to within 4 inches of finished grade at top of walls. At bottom of walls, extend dampproofing across horizontal projection of footing and down face of footing approximately 2 inches.

**END OF SECTION**

**SECTION 312316**  
**ROCK REMOVAL**

**PART 1 GENERAL**

**1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Earthwork: Section 310000.

**1.02 REFERENCES**

- A. Comply with the applicable requirements of the Code of Federal Regulations Title 29 - Labor, Part 1926 Safety and Health Regulations for Construction (OSHA).

**1.03 DEFINITIONS**

- A. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
  - 1. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
  - 2. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
- B. Unauthorized Rock Removal:
  - 1. The removal of any rock prior to performing the measurements/work required to determine quantities (Paragraph 3.01 B).
  - 2. The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director.

**1.04 SUBMITTALS**

- A. Rock Removal Procedure: Submit a detailed outline of intended rock removal procedure for the Director's information, including spacing of pre-drilled holes, equipment, etc. This submittal will not relieve the Contractor of responsibility for the successful performance of method used.
- B. Measurement data for quantities of rock removal.

**1.05 QUALITY ASSURANCE**

- A. Pre-Rock Removal Conference: Before the rock removal work is scheduled to commence, a conference will be called by the Director's Representative at the site for the purpose of reviewing the Contract Documents and discussing requirements for the Work. The conference shall be attended by the Contractor's Representative and the person supervising the rock removal operations.

**1.06 PROJECT CONDITIONS**

- A. Blasting and the use of explosive materials will not be permitted. The sole use of pneumatic hammers will not be permitted. Installation of pre-drilled holes will be required. Contractor shall determine the depth and spacing of pre-drilled holes required.
- B. Include in the contract bid price the removal and disposal of 500 cubic yards of sound bedrock. A credit will be owed if the full 500 cubic yards of rock is not encountered. If over 500 cubic yards a change order will be negotiated.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

- A. Backfill Materials and Other Related Earthwork: As specified in Section 310000.
- B. Furnish one seismograph, with manufacturer's operating instructions, to measure particle velocity during blasting operations. The seismograph shall be capable of making a permanent record of blasting operations. The seismograph shall remain the property of the Contractor.
  - 1. Deliver permanent records of blasting operations to the Director's Representative. Records will become the property of the State.

**PART 3 EXECUTION**

**3.01 EXAMINATION, VERIFICATION & MEASUREMENT**

- A. Examination of Existing Property and Construction: Prior to starting rock removal Work, thoroughly examine the existing property and construction at the site and record, with notes and drawings or other documentation, existing defects and deterioration. Make this information available to the Director's Representative upon request.
- B. Prior to removing material classified as rock, excavate down to rock for the purpose of verifying the presence of sound rock and determining top of rock elevations.
  - 1. Verification of Sound Rock: Demonstrate to the Director's Representative that materials to be classified as rock cannot be removed

utilizing a backhoe or excavator equipped with any form of bucket, including a bucket equipped with ripping teeth.

- 2. Required Measurements: Take elevations and measurements as required for the purpose of determining the quantities of rock removal. Record all measurement data and submit a copy of the data to the Director's Representative. Backfill test pits prior to rock removal as directed. Unless otherwise indicated or directed, excavate test pits as follows:
  - a. For Structures: One pit for each structure or one pit for each 1000 sq ft, whichever is greater.
  - b. For Paved Areas: 3 pits for each 2500 sq ft.
  - c. For Utility Lines: One pit for each 250 lin ft.

**3.02 SITE PREPARATION**

- A. Schedule a site meeting with the Director’s Representative and facility personnel to review the rock removal procedures in detail.
- B. If required, have seismographs in place and operational as well as all safety equipment and/or fencing.

**3.03 ROCK REMOVAL**

- A. Remove rock as required by the Drawings and as necessary for the installation of the Work. Make sufficient clearance, within the limits specified, for the proper execution of the Work.
- B. Volume Determination: Top of Rock Elevations established prior to the performance of any rock removal (Section 3.01 B) will be used to determine the depth of rock removed. Measurements for the base and width of the rock excavation shall be taken of the actual rock cut, as required for the Work, or to the specified measurement limits, whichever is smaller. Unless otherwise directed in writing, measurement limits for this work shall be as follows:
  - 1. Precast Concrete Structures: Measurement will be based on the size of the precast concrete structure specified or indicated on the Drawings.
    - a. Vertical Limit: Bottom of rock cut for precast concrete structure shall be 12 inches below the required bottom of structure elevation.
    - b. Horizontal Limit: Limit measurement between vertical side surfaces at bottom of rock cut to the following:

Actual Depth of Rock Cut	Distance Beyond Edge of Concrete in Each Direction
Under 5 Feet	12 Inches
5 to 15 Feet	18 Inches
Over 15 Feet	24 Inches

- 2. Conduit:
  - a. Vertical Limit: Bottom of rock cut for conduit in trench shall be as required for the indicated depth of the conduit.

- b. Horizontal Limit: Limit measurement between vertical side surfaces at bottom of rock cut to the following:

Actual Depth of Rock Cut	Trench Width
Under 3 Feet	24 Inches, except where wider width is required by the multiple horizontal conduits.
3 to 10 Feet	36 Inches, except where wider width is required by the Drawings or directed for multiple horizontal conduits.

**3.04 FIELD QUALITY CONTROL**

- A. Provide the Director’s Representative with the recorded top of rock elevations. Prior to the performance of any rock removal operations obtain, in writing, that the Director’s Representative as reviewed the information and is in agreement with the measurements taken.
- B. Allow time for visual inspection of bottom of rock cut required for the Work.

**3.05 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS.**

- A. Remove from State property and dispose of excess and unsuitable rock materials.

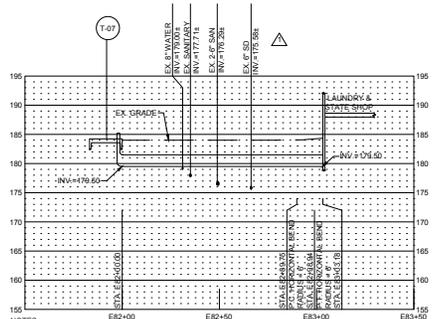
**3.06 ADJUSTING**

- A. Unauthorized Rock Removal:
  - 1. Horizontal Direction: Backfill and compact unauthorized rock removal in the horizontal direction as specified for authorized excavation of the same classification, unless otherwise directed.
  - 2. Vertical Direction: Immediately report unauthorized rock removal in the vertical direction to the Director's Representative. Correct unauthorized rock removal in the vertical direction in accordance with directions of the Director.

**3.07 CLEANING**

- A. Where footings and walls will rest entirely on rock, clean rock surfaces free of soil and loose rock.

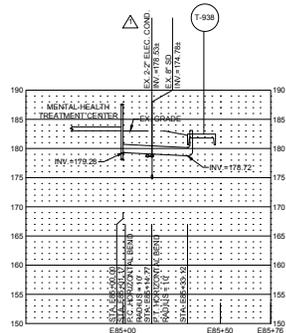
**END OF SECTION**



**NOTES:**

1. SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 12-WAY (4X3) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
3. BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 31000.

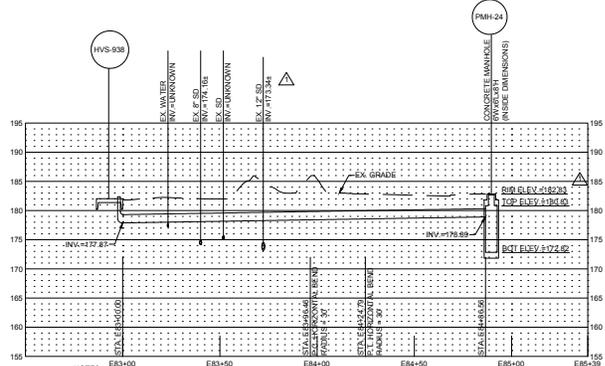
**E-34A** 12-WAY (4X3) 4" ELEC. DB. FROM TRANSFORMER T-07 TO BUILDING 7  
**E-311** HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 10'



**NOTES:**

1. SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 6-WAY (2X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
3. BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 31000.

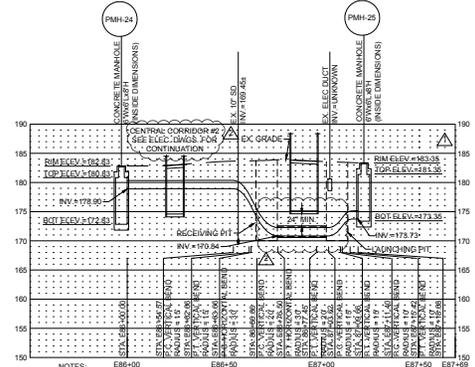
**E-35A** 4-WAY (2X2) 4" ELEC. DB. FROM BUILDING 938 TO TRANSFORMER T-938  
**E-311** HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 10'



**NOTES:**

1. SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 4-WAY (2X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
3. BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 31000.

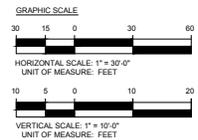
**E-35** 4-WAY (2X2) 4" ELEC. DB. FROM SWITCH HVS-938 TO PMH-24  
**E-311** HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 10'



**NOTES:**

1. SEE DRAWING E-111 AND E-312 FOR UTILITY SITE PLAN AND DRAWING E-103 AND E-104 FOR STATIONING PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 6-WAY (2X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
3. BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 31000.
4. CONTRACTOR SHALL VERIFY DEPTH OF UTILITY TUNNEL PRIOR TO EXCAVATION FOR LAUNCHING AND RECEIVING PITS.

**E-36** 4-WAY (2X2) 4" ELEC. DB. FROM PMH-24 TO PMH-25  
**E-311** HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 10'



**OCS**  
 1225 Orangeburg Avenue  
 Serving New York  
 ANDREW M. CUOMO  
 Governor  
 ROANN M. DESTITO  
 Commissioner

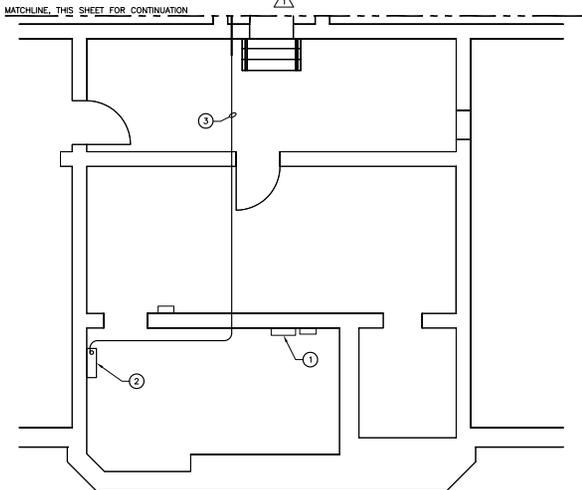
CONSULTANT  
**rmf**  
 RMF ENGINEERING, INC.  
 120 DEFREEST DRIVE, SUITE 1  
 TROY, NY 12180

**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.



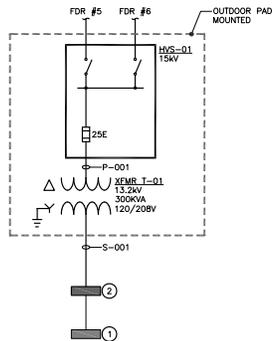
CONTRACT: **ELECTRICAL**  
 TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**  
 LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821**  
 CLIENT: **DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION**

MARK	DATE	DESCRIPTION
△	11-03-14	ADDENDUM NO. 3
△	10-27-14	ADDENDUM NO. 1
	12/27/13	BD DOCUMENTS
PROJECT NUMBER:	42534-E	
DESIGNED BY:	GDPH	
DRAWN BY:	GDPH	
FIELD CHECK:	GDPH	
APPROVED:	AHT	
SHEET TITLE:	ELECTRICAL DISTRIBUTION PROFILES	
DRAWING NUMBER:	E-311	



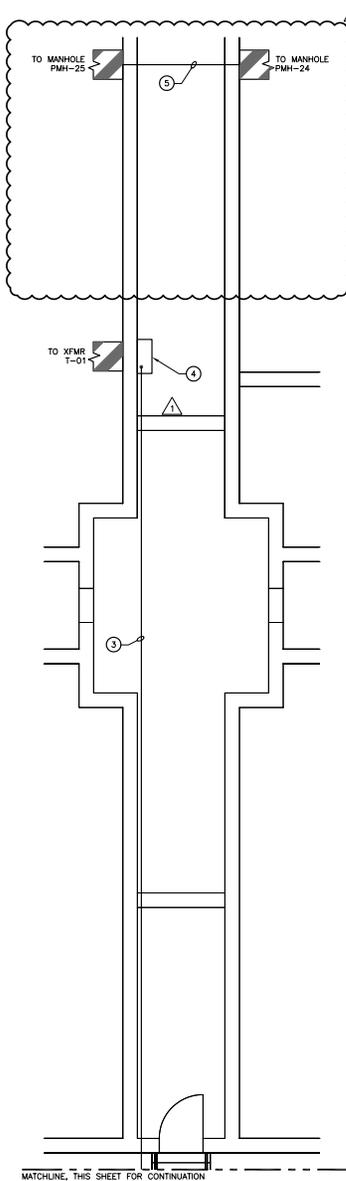
**PART PLAN - BLDG NO. 1 - ADMINISTRATION - NEW WORK**

SCALE: 1/4" = 1'-0"



**BLDG NO. 1 - ADMINISTRATION - SINGLE LINE DIAGRAM - NEW WORK**

NO SCALE



**PART PLAN - BLDG NO. 1 - ADMINISTRATION TUNNEL - NEW WORK**

SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

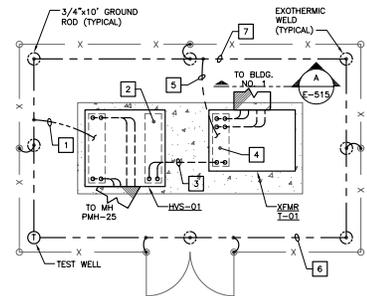
1. INSTALL NEW EQUIPMENT TO THE EXTENT POSSIBLE BEFORE REMOVING EXISTING EQUIPMENT.
2. ALL INDOOR CONDUIT SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE ELECTRICAL ROOM CEILING AND MUST BE COORDINATED WITH EXISTING CONDITIONS.
3. ALL WALL/ FLOOR/ CEILING PENETRATIONS SHALL BE FIRE STOPPED TO MATCH FIRE RATINGS OF PENETRATED SURFACE.
4. REFER TO E-600 SERIES DRAWINGS FOR PANELBOARD, SWITCHBOARD, AND FEEDER SCHEDULES.
5. TRANSITION OF EXISTING AND NEW BUILDING ELECTRICAL EQUIPMENT TO THE NEW DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE WORK SEQUENCE OUTLINED IN THE CONTRACT DOCUMENTS.
6. SEE DRAWINGS E-109 TO E-116 FOR SITE PLAN LAYOUT, BUILDING AND EQUIPMENT PAD LOCATIONS.
7. PAD EQUIPMENT DETAIL INCLUDES SPARE CONDUITS. REFER TO DRAWING E-604 FOR TRANSFORMER FEEDER SCHEDULE.
8. PROVIDE TEMPORARY GENERATOR AND ASSOCIATED CABLE, CONDUIT, AND FUEL, AS REQUIRED IN THE WORK SEQUENCE ON DRAWING E-604. COORDINATE LOCATION WITH THE FACILITY.

**DRAWING NOTES:**

- 1 EXISTING PANELBOARD MDP-2 120/208V, 400A, 3Ø, 4W.
- 2 MDP-01 120/208V, 800A, 3Ø, 4W. PROVIDE SYSTEM BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR CONNECTION TO NEAREST BUILDING STEEL OR GROUNDING WATER PIPE SIZED PER THE TABLE ON E-604.
- 3 FEEDER S-001 CONDUIT AND WIRING TO MDP-01. CONDUIT AND WIRING IS SHOWN SCHEMATICALLY AND SHALL BE FIELD ROUTED BY THE CONTRACTOR.
- 4 NEMA 1 GALVANIZED STEEL PULL BOX 28"x28"x12".
- 5 TRANSITION FROM 4-WAY UNDERGROUND DUCTBANK TO 2-WAY, 4" RGS CONDUIT ROUTED THROUGH TUNNEL. PER INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL ON DRAWING E-504. CAP 2 SPARE DUCTS INSIDE WALL AND COORDINATE DUCTBANK PENETRATIONS WITH E-100 SERIES DRAWINGS.

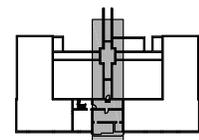
**DRAWING NOTES: (PAD DETAIL)**

- 1 PROVIDE #4/0 GROUND CONNECTION TO SWITCH ENCLOSURE GROUND BUS.
- 2 BOND ALL LINE AND LOAD EQUIPMENT GROUNDING CONDUCTORS TO INTERNAL SWITCH GROUNDING CONDUCTOR.
- 3 ALL PVC CONDUIT BETWEEN THE SWITCH AND TRANSFORMER SHALL BE ENCASED IN CONCRETE. DRAWING INCLUDES ONE OPEN SPARE CONDUIT TO BE RUN BETWEEN THE SWITCH AND TRANSFORMER.
- 4 CONNECT PRIMARY SIDE EQUIPMENT GROUNDING CONDUCTOR TO THE TRANSFORMER GROUND BUS. PROVIDE SUPPLY SIDE BONDING JUMPER BETWEEN TRANSFORMER GROUND BUS AND SERVICE ENTRANCE EQUIPMENT GROUND BUS SIZED PER THE TABLE ON DRAWING E-604.
- 5 PROVIDE #4/0 GROUND CONNECTION TO TRANSFORMER GROUND BUS.
- 6 #4/0 BARE STRANDED COPPER GROUND CONDUCTOR. (BURY 30" BELOW GRADE. (TYPICAL))
- 7 GROUND RING SHALL BE AT LEAST 3' AWAY AT ALL POINTS FROM THE PAD.

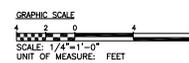


**BLDG NO. 1 - ADMINISTRATION - PAD DETAIL - NEW WORK**

SCALE: 1/4" = 1'-0"



**KEY PLAN**



**WARNING:**  
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**CONTRACT:**

**ELECTRICAL**

**TITLE:**  
UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE

**LOCATION:**  
GREAT MEADOW CORRECTIONAL FACILITY  
ROUTE 22  
COMSTOCK, NY, 12821

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

MARK	DATE	DESCRIPTION
11/03/14	ADDENDUM NO. 3	
10/27/14	ADDENDUM NO. 2	
12/27/13	BID DOCUMENTS	

**PROJECT NUMBER:** 42534-E

**DESIGNED BY:** JTM

**DRAWN BY:** TNC

**FIELD CHECK:** JTM

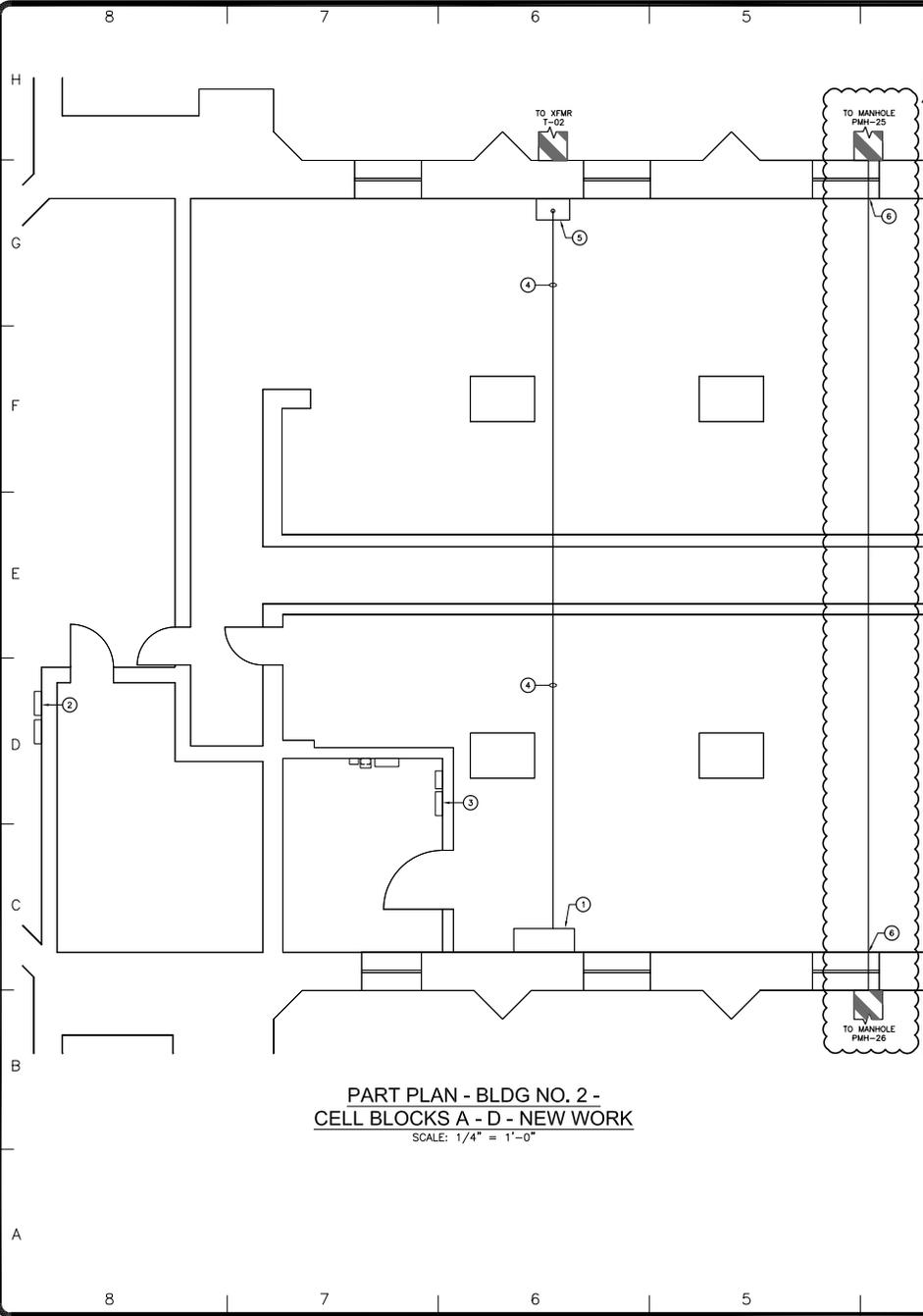
**APPROVED:** AJH

**SHEET TITLE:**

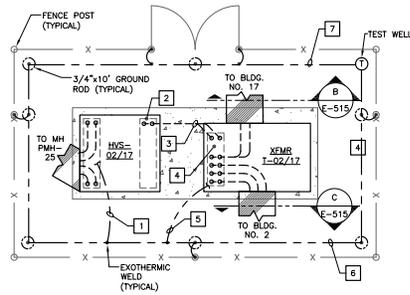
GREAT MEADOW C.F. BLDG. NO. 1 - ADMINISTRATION - NEW WORK

**DRAWING NUMBER:** E-401B

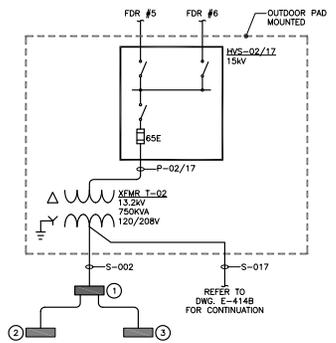
SHEET 059 OF 145



**PART PLAN - BLDG NO. 2 -  
CELL BLOCKS A - D - NEW WORK**  
SCALE: 1/4" = 1'-0"



**BLDG NO. 2 - CELL BLOCKS A - D -  
PAD DETAIL - NEW WORK**  
SCALE: 1/4" = 1'-0"



**BLDG NO. 2 - CELL BLOCKS A - D -  
SINGLE LINE DIAGRAM - NEW WORK**  
NO SCALE

**GENERAL NOTES:**

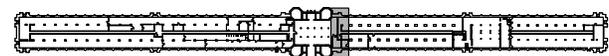
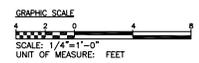
1. INSTALL NEW EQUIPMENT TO THE EXTENT POSSIBLE BEFORE REMOVING EXISTING EQUIPMENT.
2. ALL INDOOR CONDUIT SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE ELECTRICAL ROOM CEILING AND MUST BE COORDINATED WITH EXISTING CONDITIONS.
3. ALL WALL/ FLOOR/ CEILING PENETRATIONS SHALL BE FIRE STOPPED TO MATCH FIRE RATING OF PENETRATED SURFACE.
4. REFER TO E-600 SERIES DRAWINGS FOR PANELBOARD, SWITCHBOARD, AND FEEDER SCHEDULES.
5. TRANSITION OF EXISTING AND NEW BUILDING ELECTRICAL EQUIPMENT TO THE NEW DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE WORK SEQUENCE OUTLINED IN THE CONTRACT DOCUMENTS.
6. SEE DRAWINGS E-109 TO E-116 FOR SITE PLAN LAYOUT, BUILDING AND EQUIPMENT PAD LOCATIONS.
7. PAD EQUIPMENT DETAIL INCLUDES SPARE CONDUITS. REFER TO DRAWING E-604 FOR TRANSFORMER FEEDER SCHEDULE.
8. PROVIDE TEMPORARY GENERATOR AND ASSOCIATED CABLE, CONDUIT, AND FUEL, AS REQUIRED IN THE WORK SEQUENCE ON DRAWING E-604. COORDINATE LOCATION WITH THE FACILITY.
9. REFER TO THE INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL ON DRAWING E-504 FOR FEEDER ROUTING REQUIREMENTS INSIDE OF THE BUILDING 2 BASEMENT AND TUNNEL.

**DRAWING NOTES:**

- 1 SWITCHBOARD SB-02 120/208V, 1600A, 3ø, 4W. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO NEAREST BUILDING STEEL OR GROUNDING WATER PIPE AND SYSTEM BONDING JUMPER SIZED PER THE TABLE ON DRAWING E-604.
- 2 EXISTING PANELBOARD 120/208V, 400A, 3ø, 4W.
- 3 EXISTING PANELBOARD "LP-2-FL" 120/208V, 100A, 3ø, 4W.
- 4 FEEDER S-002 CONDUIT AND WIRING TO SB-02. CONDUIT AND WIRING IS SHOWN SCHEMATICALLY AND SHALL BE FIELD ROUTED BY THE CONTRACTOR.
- 5 NEMA 1 GALVANIZED STEEL PULL BOX 28"x28"x18".
- 6 TRANSITION FROM 4-WAY UNDERGROUND DUCTBANK TO 2-WAY, 4" RGS CONDUIT ROUTED THROUGH BUILDING 2 PER INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL ON DRAWING E-504. CAP 2 SPARE DUCTS INSIDE WALL AND COORDINATE DUCTBANK PENETRATIONS WITH E-100 SERIES DRAWINGS.

**DRAWING NOTES: (PAD DETAIL)**

- 1 PROVIDE #4/0 GROUND CONNECTION TO SWITCH ENCLOSURE GROUND LUG.
- 2 BOND ALL LINE AND LOAD EQUIPMENT GROUNDING CONDUCTORS TO INTERNAL SWITCH GROUNDING CONNECTORS.
- 3 ALL PVC CONDUIT BETWEEN THE SWITCH AND TRANSFORMER SHALL BE ENCASED IN CONCRETE. DRAWING INCLUDES ONE OPEN SPARE CONDUIT TO BE RUN BETWEEN THE SWITCH AND TRANSFORMER.
- 4 CONNECT PRIMARY SIDE GROUNDING CONDUCTOR TO THE TRANSFORMER GROUND BUS. PROVIDE SUPPLY SIDE BONDING JUMPER FROM THE TRANSFORMER GROUND BUS TO THE SERVICE ENTRANCE EQUIPMENT GROUND BUS SIZED PER THE TABLE ON DRAWING E-604.
- 5 PROVIDE #4/0 GROUND CONNECTION TO TRANSFORMER GROUND BUS.
- 6 #4/0 BARE STRANDED COPPER GROUND CONDUCTOR. (BURY 30" BELOW GRADE. (TYPICAL))
- 7 GROUND RING SHALL BE AT LEAST 3" AWAY AT ALL POINTS FROM THE PAD.



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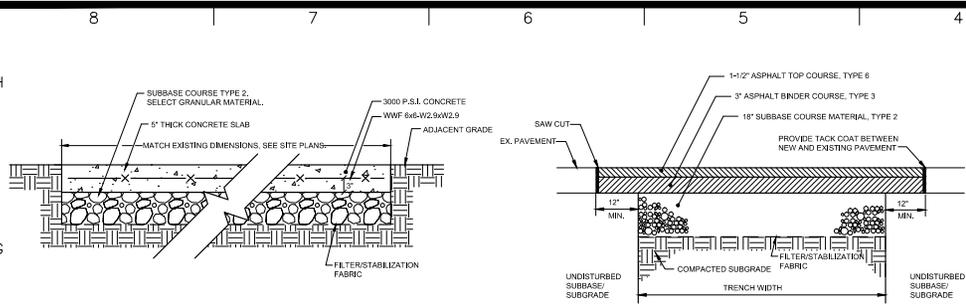
CONTRACT: **ELECTRICAL**

TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**

LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821**

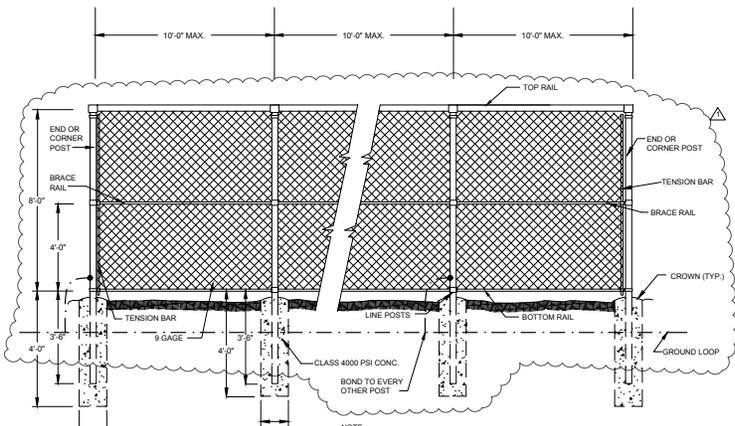
CLIENT: **DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION**

DATE	DESCRIPTION
11/03/14	ADDENDUM NO. 3
12/27/13	BD DOCUMENTS
PROJECT NUMBER:	42534-E
DESIGNED BY:	JTM
DRAWN BY:	TNC
FIELD CHECK:	JTM
APPROVED:	AH
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GREAT MEADOW C.F. BLDG. NO. 2 - CELL BLOCKS A-D - NEW WORK	
DRAWING NUMBER:	E-402B
SHEET 061	OF 145

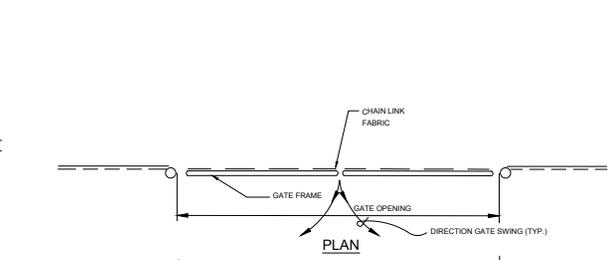


**A CONCRETE SIDEWALK**  
SCALE: NONE  
E-503

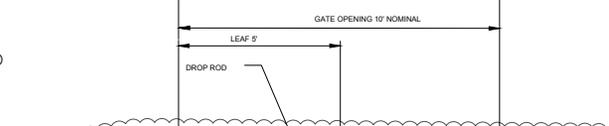
**B ASPHALT PAVEMENT**  
SCALE: NONE  
E-503



**C CHAIN LINK FENCE**  
SCALE: NONE  
E-503

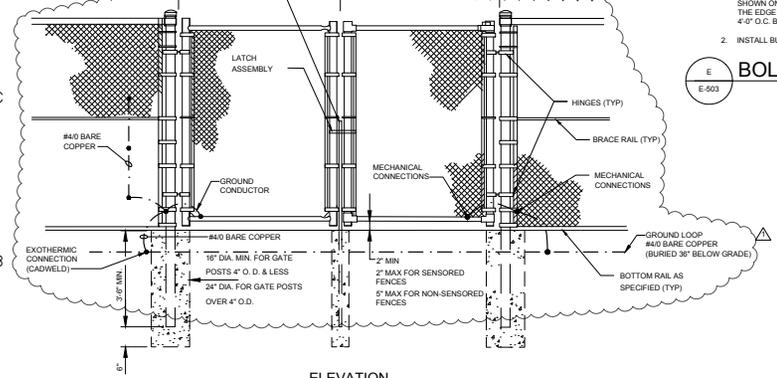


**PLAN**



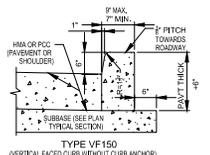
**E BOLLARD DETAIL**  
SCALE: NONE  
E-503

- NOTES:
1. PROVIDE FENDER POSTS IN THE QUANTITY AS SHOWN ON THE SITE PLAN. INSTALL 4'-0" MIN. OFF THE EDGE OF TRANSFORMER PAD WITH A MAX. OF 4'-0" O.C. BETWEEN POSTS.
  2. INSTALL BUMPER POST SLEEVE.



**ELEVATION**

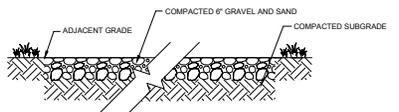
**D FENCE GATE DETAIL**  
SCALE: NONE  
E-503



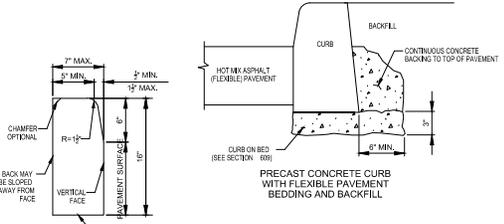
**TYPE VF150**  
(VERTICAL FACED CURB WITHOUT CURB ANCHOR)  
(SEE NOTE 4)

4. WHEN VERTICAL FACED CURB LESS THAN 9" WIDE IS USED WITH CURB BOXES CUT, CURB AND CURB AND CONCRETE SIDEWALK IS PLACED ADJACENT TO THIS CURB. SEE STANDARD SHEET MISCELLANEOUS CURB DETAILS FOR CURB BOX JOINTS.

**CAST-IN-PLACE CONCRETE CURB**



**G GRAVEL PAVEMENT**  
SCALE: NONE  
E-503



**TYPE PVF150**  
(VERTICAL FACED CURB)

**PRE-CAST CONCRETE CURB**

**STATE OF NEW YORK -  
DEPARTMENT OF TRANSPORTATION  
CONCRETE CURB DETAIL**

**F**  
SCALE: NONE  
E-503



ANDREW M. CUOMO  
Governor  
ROANN M. DESTITO  
Commissioner

CONSULTANT



RMF ENGINEERING, INC.  
120 DEFREEST DRIVE, SUITE 1  
TROY, NY 12180

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CONTRACT: **ELECTRICAL**

TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**

LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY  
ROUTE 22  
COMSTOCK, NY, 12821**

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

MARK	DATE	DESCRIPTION
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	12/27/13	BD DOCUMENTS

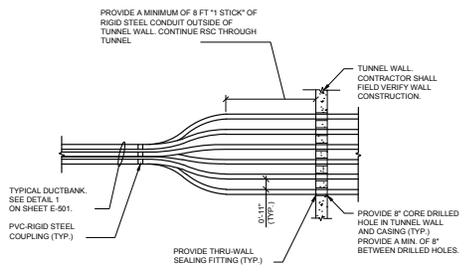
PROJECT NUMBER: **42534-E**

DESIGNED BY: **DDPH**  
DRAWN BY: **DDPH**  
FIELD CHECK: **DDPH**  
APPROVED: **AH**  
SHEET TITLE:

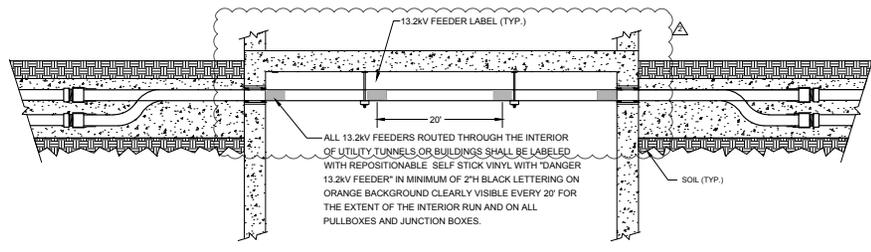
UTILITY DETAILS

DRAWING NUMBER: **E-503**

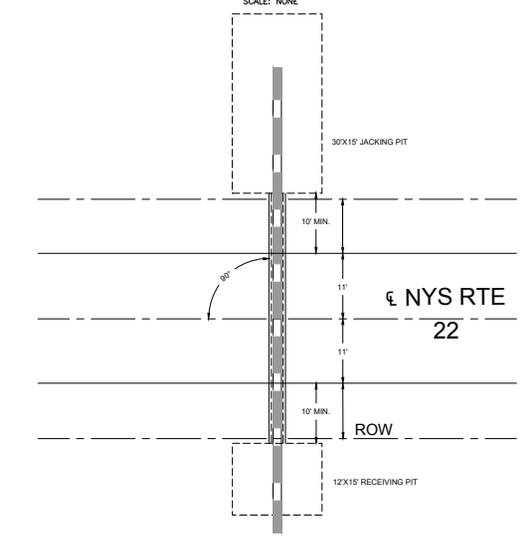
8 7 6 5 4 3 2 1



12  
E-504  
**TYPICAL TUNNEL WALL PENETRATION PARTIAL PLAN**  
SCALE: NONE



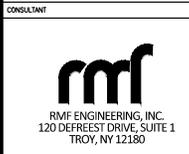
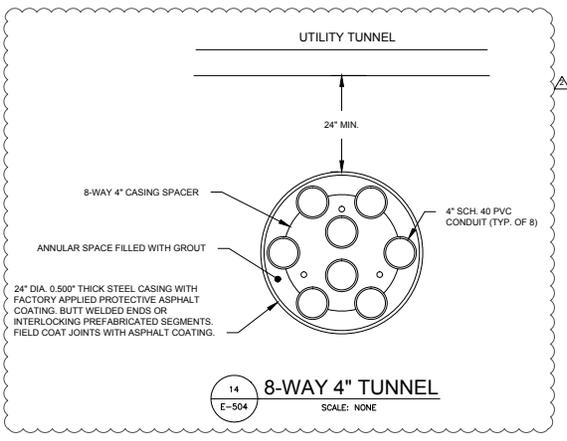
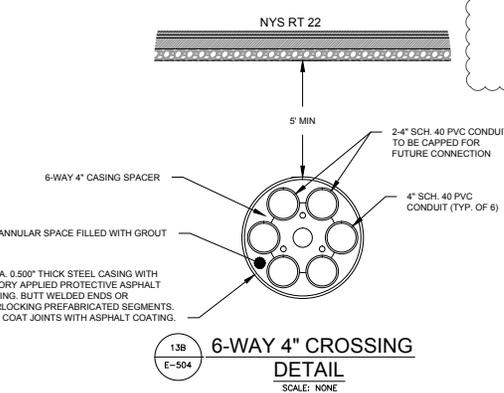
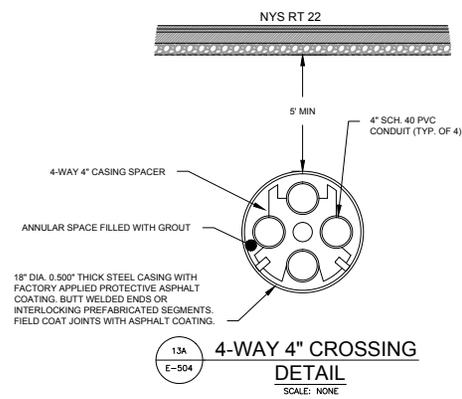
**INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL**  
SCALE: NONE



13  
E-504  
**TYPICAL NYS RTE 22 CROSSING**  
SCALE: NONE

WHEN SUBMITTING THESE DRAWINGS TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION FOR A HIGHWAY WORK PERMIT:

- CONTRACTOR SHALL PROVIDE SHEETING AND SHORING SHOP DRAWINGS FOR THE LAUNCHING AND RECEIVING PITS, DESIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
- CONTRACTOR SHALL PROVIDE PROPOSED TUNNELING METHOD, INCLUDING EQUIPMENT SPECIFICATIONS, DESCRIBING THE SIZE, CUTTER, TYPE, AND BRACING/ANCHORAGE DETAILS, AND METHOD FOR MONITORING AND FOLLOWING DESIGN LINE AND GRADE.
- CONTRACTOR SHALL PROVIDE THE PROPOSED GROUTING METHOD, INCLUDING GROUT TUBE SIZE AND TYPE, GROUT HOLE LOCATION AND METHOD OF PLACEMENT/INSERTION, MAXIMUM PRESSURE CAPABILITY AND MAXIMUM (DESIGN) OPERATION PRESSURE.
- CONTRACTOR SHALL LOCATE AND IDENTIFY THE NEAREST HIGHWAY MILE MARKER AND INDICATE ON THE DRAWINGS THE DISTANCE TO SAID MARKER.
- CONTRACTOR SHALL IDENTIFY ANY ABANDONED UTILITIES.
- SEE DETAILS 13A AND 13B ON THIS DRAWING.



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CONTRACT: **ELECTRICAL**

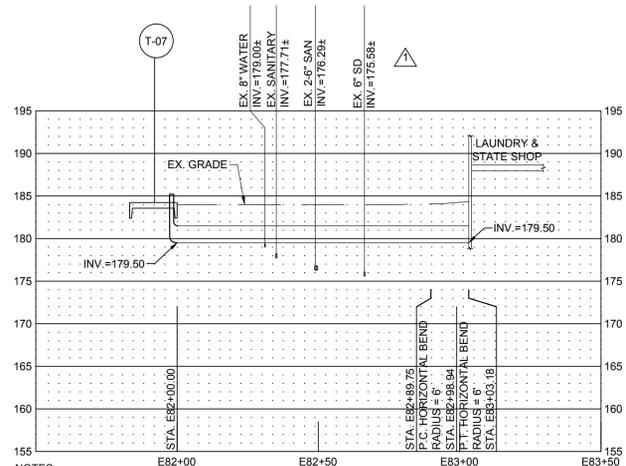
TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**

LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821**

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

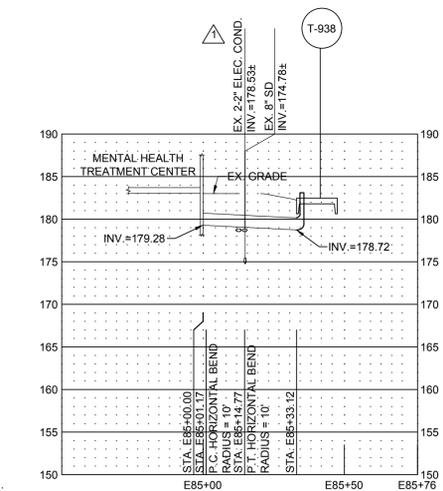
MARK	DATE	DESCRIPTION
△	11-03-14	ADDENDUM NO. 3
△	10-27-14	ADDENDUM NO. 2
	12/27/13	BD DOCUMENTS
PROJECT NUMBER:	42534-E	
DESIGNED BY:	DDH	
DRAWN BY:	DDH	
FIELD CHECK:	DDH	
APPROVED:	AHT	
SHEET TITLE:	UTILITY DETAILS	
DRAWING NUMBER:	E-504	

8 7 6 5 4 3 2 1



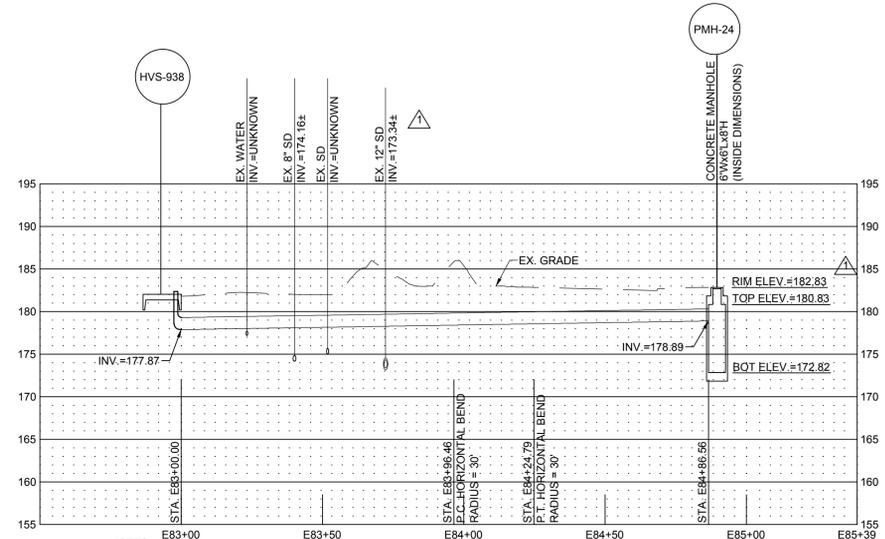
- NOTES:
- SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
  - PROFILE IS BASED ON CENTERLINE OF 12-WAY (4X3) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
  - BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1' CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 310000.

**E-34A** 12-WAY (4X3) 4" ELEC. DB. FROM TRANSFORMER T-07 TO BUILDING 7  
**E-311** HORIZONTAL SCALE: 1"= 30'  
 VERTICAL SCALE: 1" = 10'



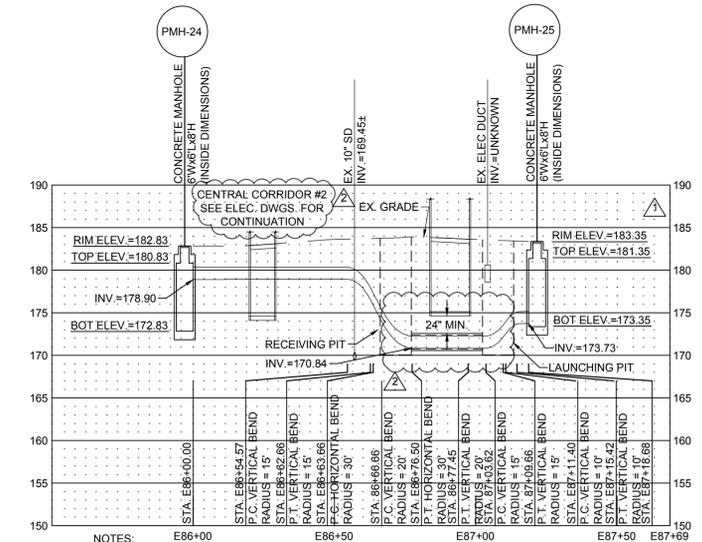
- NOTES:
- SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
  - PROFILE IS BASED ON CENTERLINE OF 6-WAY (3X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
  - BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1' CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 310000.

**E-35A** 4-WAY (2X2) 4" ELEC. DB. FROM BUILDING 938 TO TRANSFORMER T-938  
**E-311** HORIZONTAL SCALE: 1"= 30'  
 VERTICAL SCALE: 1" = 10'



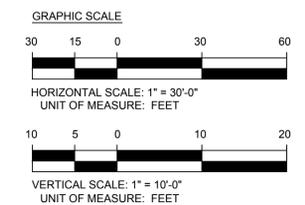
- NOTES:
- SEE DRAWING E-111 FOR UTILITY SITE PLAN AND DRAWING E-103 FOR STATIONING PLAN.
  - PROFILE IS BASED ON CENTERLINE OF 4-WAY (2X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
  - BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1' CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 310000.

**E-35** 4-WAY (2X2) 4" ELEC. DB. FROM SWITCH HVS-938 TO PMH-24  
**E-311** HORIZONTAL SCALE: 1"= 30'  
 VERTICAL SCALE: 1" = 10'



- NOTES:
- SEE DRAWING E-111 AND E-312 FOR UTILITY SITE PLAN AND DRAWING E-103 AND E-104 FOR STATIONING PLAN.
  - PROFILE IS BASED ON CENTERLINE OF 6-WAY (3X2) 4" ELECTRICAL DUCTBANK. INVERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
  - BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1' CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONCRETE CONSISTING OF A MIXTURE OF FLY ASH, CEMENT AND WATER, CERTIFIED BY MANUFACTURERS, IN ACCORDANCE WITH OFFICE OF GENERAL SERVICES STANDARDS SPECIFICATION 310000.
  - CONTRACTOR SHALL VERIFY DEPTH OF UTILITY TUNNEL PRIOR TO EXCAVATION FOR LAUNCHING AND RECEIVING PITS.

**E-36** 4-WAY (2X2) 4" ELEC. DB. FROM PMH-24 TO PMH-25  
**E-311** HORIZONTAL SCALE: 1"= 30'  
 VERTICAL SCALE: 1" = 10'



CONSULTANT  
**rmf**  
 RMF ENGINEERING, INC.  
 120 DEFREEST DRIVE, SUITE 1  
 TROY, NY 12180

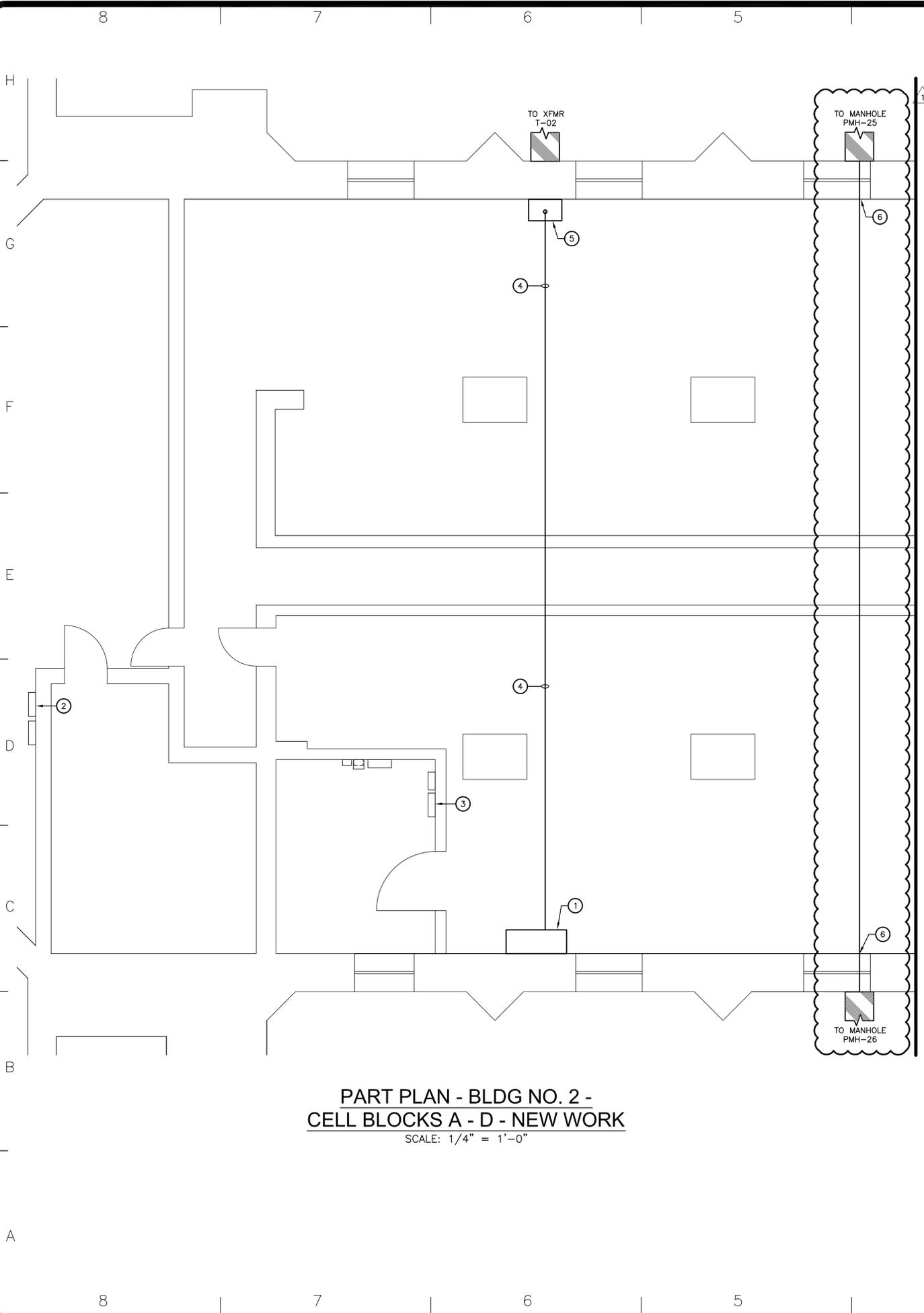
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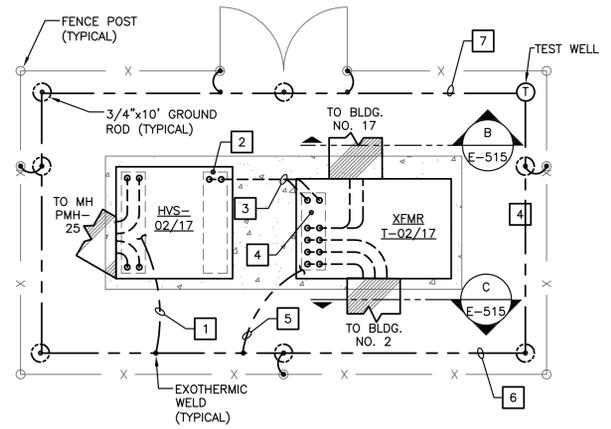
CONTRACT: ELECTRICAL  
 TITLE: UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE  
 LOCATION: GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821  
 CLIENT: DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
△	11-03-14	ADDENDUM NO. 3
△	10-27-14	ADDENDUM NO. 1
	12/27/13	BID DOCUMENTS
PROJECT NUMBER:	42534-E	
DESIGNED BY:	DOFH	
DRAWN BY:	DOFH	
FIELD CHECK:	DOFH	
APPROVED:	AJH	
SHEET TITLE:	ELECTRICAL DISTRIBUTION PROFILES	
DRAWING NUMBER:	E-311	

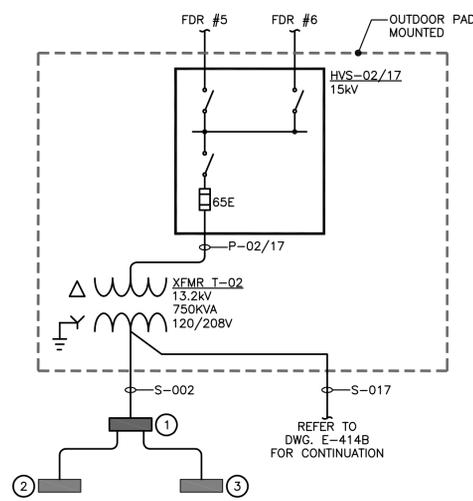




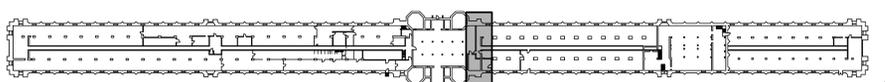
**PART PLAN - BLDG NO. 2 -  
CELL BLOCKS A - D - NEW WORK**  
SCALE: 1/4" = 1'-0"



**BLDG NO. 2 - CELL BLOCKS A - D -  
PAD DETAIL - NEW WORK**  
SCALE: 1/4" = 1'-0"



**BLDG NO. 2 - CELL BLOCKS A - D -  
SINGLE LINE DIAGRAM - NEW WORK**  
NO SCALE



**KEY PLAN**

**GENERAL NOTES:**

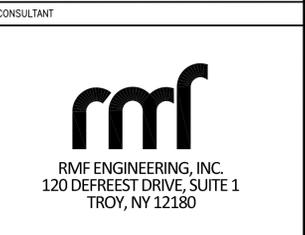
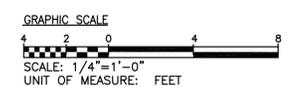
- INSTALL NEW EQUIPMENT TO THE EXTENT POSSIBLE BEFORE REMOVING EXISTING EQUIPMENT.
- ALL INDOOR CONDUIT SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE ELECTRICAL ROOM CEILING AND MUST BE COORDINATED WITH EXISTING CONDITIONS.
- ALL WALL/ FLOOR/ CEILING PENETRATIONS SHALL BE FIRE STOPPED TO MATCH FIRE RATING OF PENETRATED SURFACE.
- REFER TO E-600 SERIES DRAWINGS FOR PANELBOARD, SWITCHBOARD, AND FEEDER SCHEDULES.
- TRANSITION OF EXISTING AND NEW BUILDING ELECTRICAL EQUIPMENT TO THE NEW DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE WORK SEQUENCE OUTLINED IN THE CONTRACT DOCUMENTS.
- SEE DRAWINGS E-109 TO E-116 FOR SITE PLAN LAYOUT, BUILDING AND EQUIPMENT PAD LOCATIONS.
- PAD EQUIPMENT DETAIL INCLUDES SPARE CONDUITS. REFER TO DRAWING E-604 FOR TRANSFORMER FEEDER SCHEDULE.
- PROVIDE TEMPORARY GENERATOR AND ASSOCIATED CABLE, CONDUIT, AND FUEL, AS REQUIRED IN THE WORK SEQUENCE ON DRAWING E-604. COORDINATE LOCATION WITH THE FACILITY.
- REFER TO THE INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL ON DRAWING E-504 FOR FEEDER ROUTING REQUIREMENTS INSIDE OF THE BUILDING 2 BASEMENT AND TUNNEL.

**DRAWING NOTES:**

- SWITCHBOARD SB-02 120/208V, 1600A, 3Ø, 4W. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO NEAREST BUILDING STEEL OR GROUNDED WATER PIPE AND SYSTEM BONDING JUMPER SIZED PER THE TABLE ON DRAWING E-604.
- EXISTING PANELBOARD 120/208V, 400A, 3Ø, 4W.
- EXISTING PANELBOARD "LP-2-FL" 120/208V, 100A, 3Ø, 4W.
- FEEDER S-002 CONDUIT AND WIRING TO SB-02. CONDUIT AND WIRING IS SHOWN SCHEMATICALLY AND SHALL BE FIELD ROUTED BY THE CONTRACTOR.
- NEMA 1 GALVANIZED STEEL PULL BOX 28"x28"x18".
- TRANSITION FROM 4-WAY UNDERGROUND DUCTBANK TO 2-WAY, 4" RGS CONDUIT ROUTED THROUGH BUILDING 2 PER INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL ON DRAWING E-504. CAP 2 SPARE DUCTS INSIDE WALL AND COORDINATE DUCTBANK PENETRATIONS WITH E-100 SERIES DRAWINGS.

**DRAWING NOTES: (PAD DETAIL)**

- PROVIDE #4/0 GROUND CONNECTION TO SWITCH ENCLOSURE GROUND LUG.
- BOND ALL LINE AND LOAD EQUIPMENT GROUNDING CONDUCTORS TO INTERNAL SWITCH GROUNDING CONNECTORS.
- ALL PVC CONDUIT BETWEEN THE SWITCH AND TRANSFORMER SHALL BE ENCASED IN CONCRETE. DRAWING INCLUDES ONE OPEN SPARE CONDUIT TO BE RUN BETWEEN THE SWITCH AND TRANSFORMER.
- CONNECT PRIMARY SIDE GROUNDING CONDUCTOR TO THE TRANSFORMER GROUND BUS. PROVIDE SUPPLY SIDE BONDING JUMPER FROM THE TRANSFORMER GROUND BUS TO THE SERVICE ENTRANCE EQUIPMENT GROUND BUS SIZED PER THE TABLE ON DRAWING E-604.
- PROVIDE #4/0 GROUND CONNECTION TO TRANSFORMER GROUND BUS.
- #4/0 BARE STRANDED COPPER GROUND CONDUCTOR. (BURY 30" BELOW GRADE. (TYPICAL)
- GROUND RING SHALL BE AT LEAST 3' AWAY AT ALL POINTS FROM THE PAD.

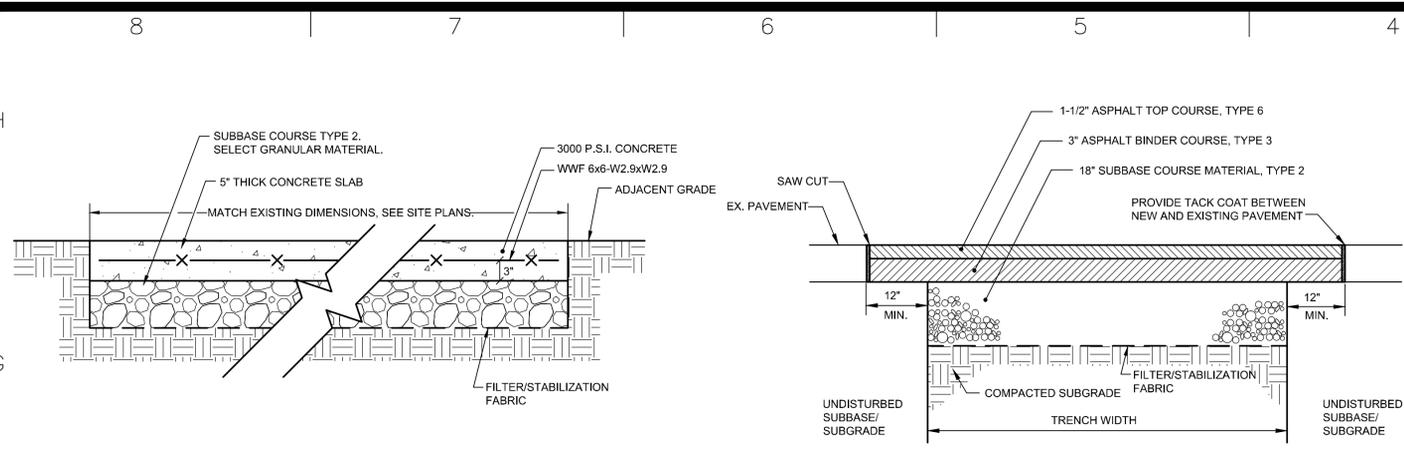


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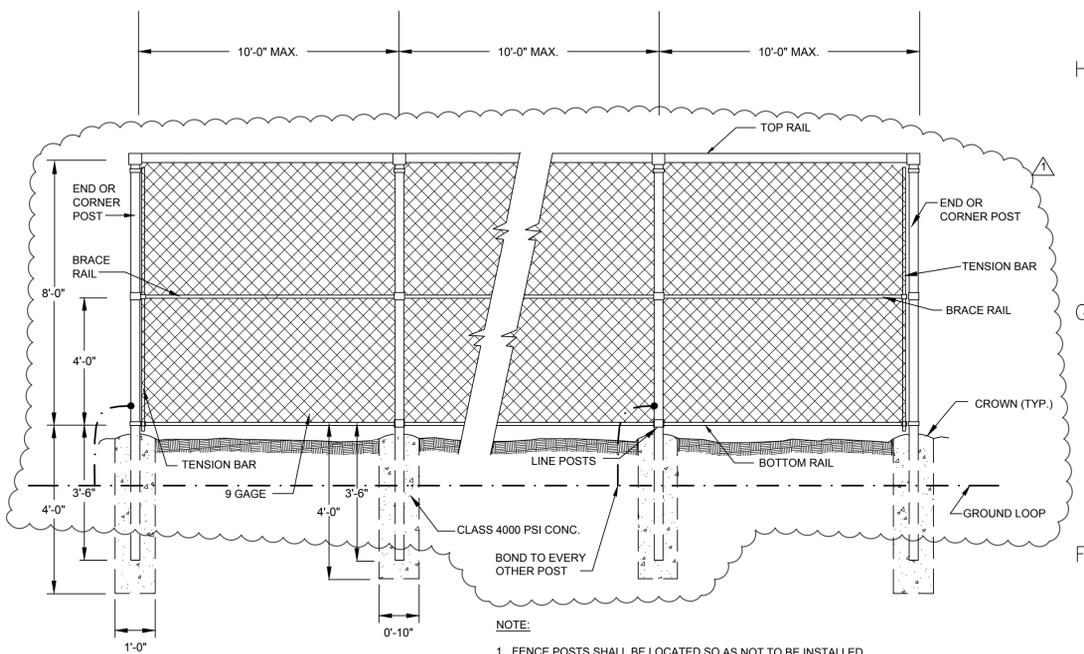
CONTRACT:	ELECTRICAL
TITLE:	UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE
LOCATION:	GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821
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	12/27/13	BID DOCUMENTS
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DRAWN BY:	TNC	
FIELD CHECK:	JTM	
APPROVED:	AJH	
SHEET TITLE:	GREAT MEADOW C.F. BLDG. NO. 2 - CELL BLOCKS A-D - NEW WORK	



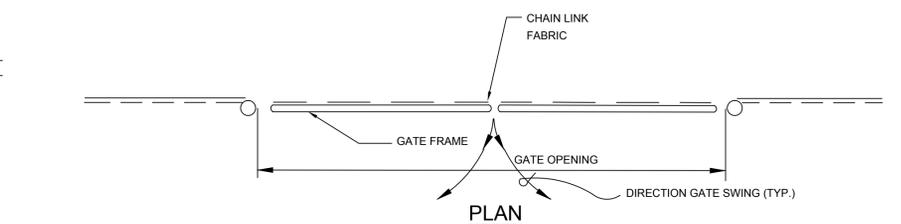
**A CONCRETE SIDEWALK**  
SCALE: NONE  
E-503

**B ASPHALT PAVEMENT**  
SCALE: NONE  
E-503

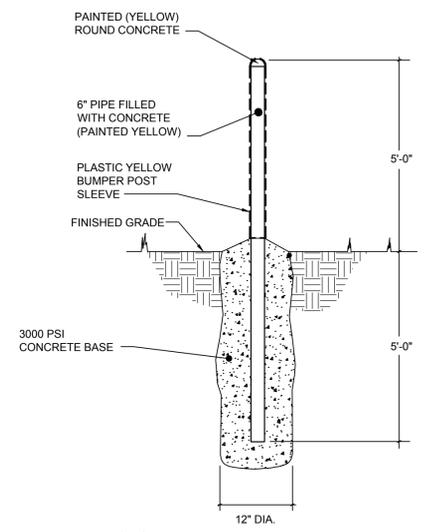


**C CHAIN LINK FENCE**  
SCALE: NONE  
E-503

NOTE:  
1. FENCE POSTS SHALL BE LOCATED SO AS NOT TO BE INSTALLED OVER/THROUGH NEW ELECTRICAL DUCTBANKS OR EXISTING UTILITIES.

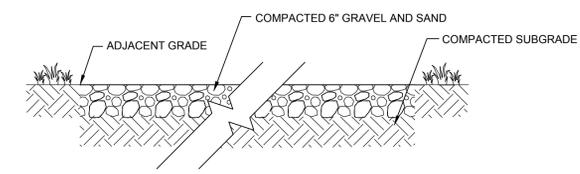


**PLAN**

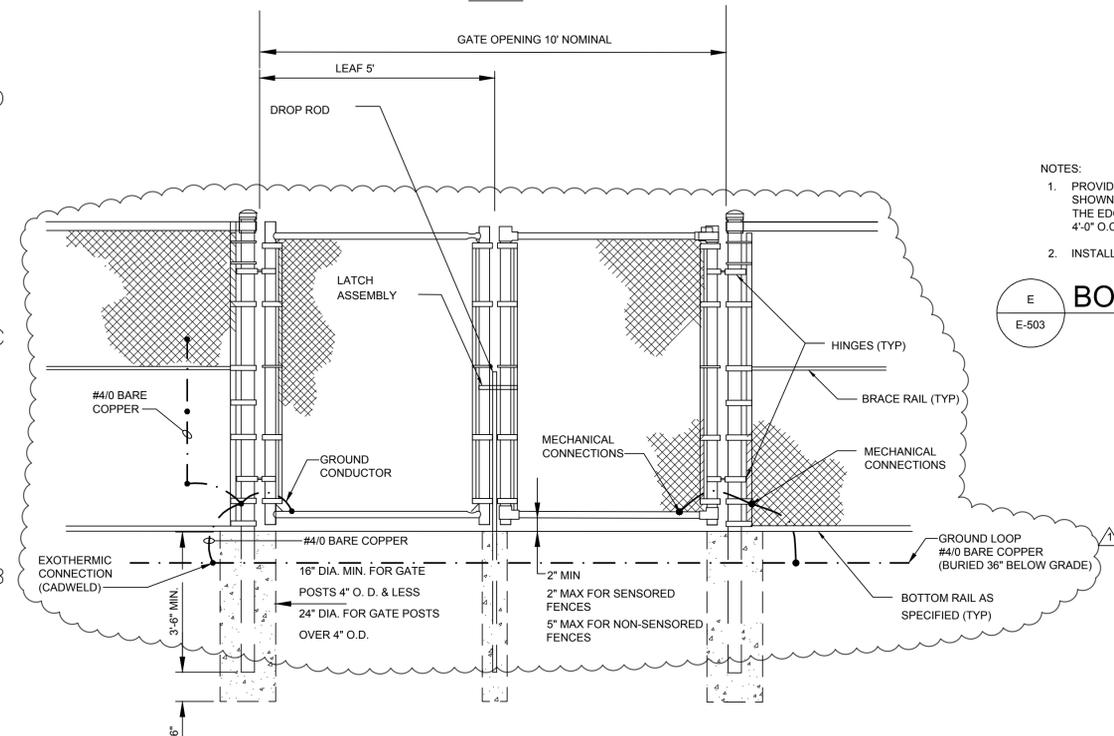


**E BOLLARD DETAIL**  
SCALE: NONE  
E-503

NOTES:  
1. PROVIDE FENDER POSTS IN THE QUANTITY AS SHOWN ON THE SITE PLAN - INSTALL 4'-0" MIN. OFF THE EDGE OF TRANSFORMER PAD WITH A MAX. OF 4'-0" O.C. BETWEEN POSTS.  
2. INSTALL BUMPER POST SLEEVE.

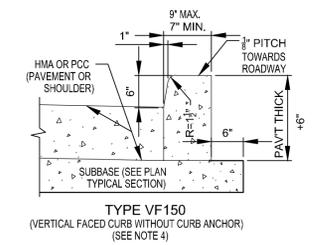


**G GRAVEL PAVEMENT**  
SCALE: NONE  
E-503



**ELEVATION**

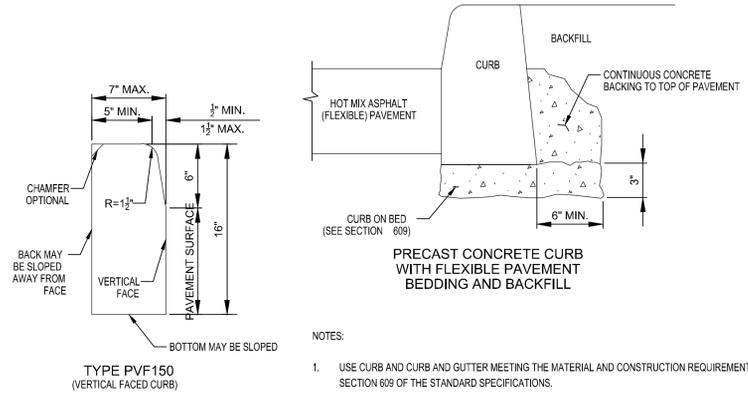
**D FENCE GATE DETAIL**  
SCALE: NONE  
E-503



**TYPE VF150**  
(VERTICAL FACED CURB WITHOUT CURB ANCHOR)  
(SEE NOTE 4)

4. WHEN VERTICAL FACED CURB LESS THAN 9" WIDE IS USED WITH CURB BOXES CU1, CU2, AND CU3 AND CONCRETE SIDEWALK IS PLACED ADJACENT TO THIS CURB, SEE STANDARD SHEET MISCELLANEOUS CURB DETAILS FOR CURB BOX JOINTS.

**CAST-IN-PLACE CONCRETE CURB**



**TYPE PVF150**  
(VERTICAL FACED CURB)

NOTES:  
1. USE CURB AND CURB AND GUTTER MEETING THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF SECTION 609 OF THE STANDARD SPECIFICATIONS.

**PRE-CAST CONCRETE CURB**

**STATE OF NEW YORK -  
DEPARTMENT OF TRANSPORTATION  
CONCRETE CURB DETAIL**  
SCALE: NONE  
E-503



ANDREW M. CUOMO  
Governor  
ROANN M. DESTITO  
Commissioner

CONSULTANT  
**rmf**  
RMF ENGINEERING, INC.  
120 DEFREEST DRIVE, SUITE 1  
TROY, NY 12180

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.

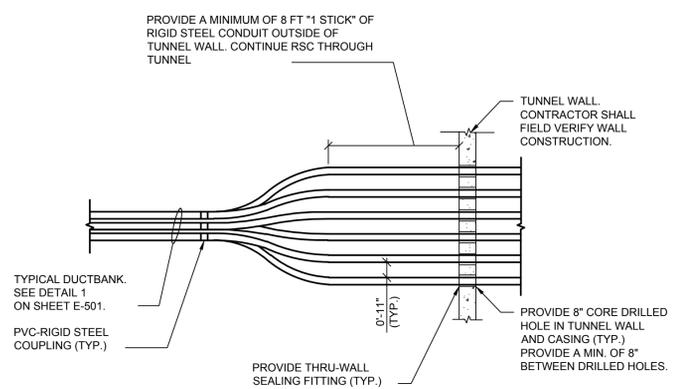


CONTRACT: **ELECTRICAL**  
TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**  
LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY  
ROUTE 22  
COMSTOCK, NY, 12821**  
CLIENT: **DEPARTMENT OF  
CORRECTIONS AND COMMUNITY  
SUPERVISION**

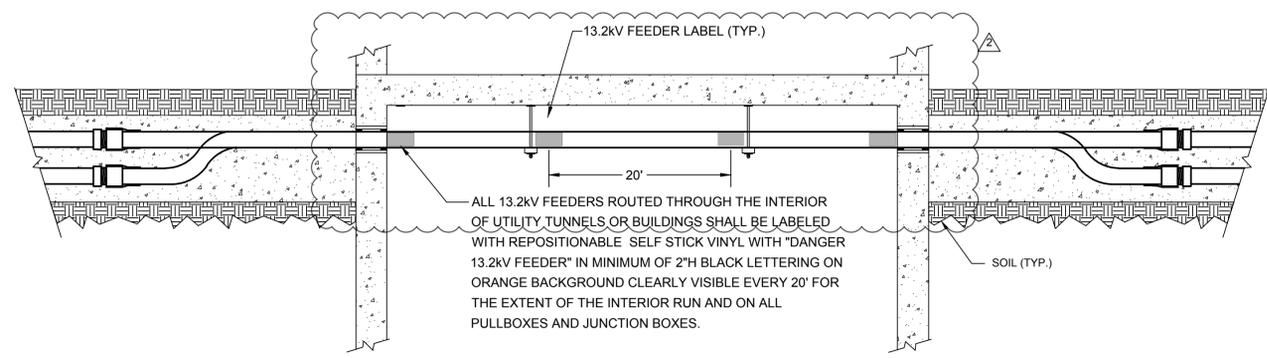
MARK	DATE	DESCRIPTION
	11-03-14	ADDENDUM NO. 3
	12/27/13	BID DOCUMENTS
PROJECT NUMBER:	42534-E	
DESIGNED BY:	DDFH	
DRAWN BY:	DDFH	
FIELD CHECK:	DDFH	
APPROVED:	AJH	
SHEET TITLE:	UTILITY DETAILS	

DRAWING NUMBER:  
**E-503**

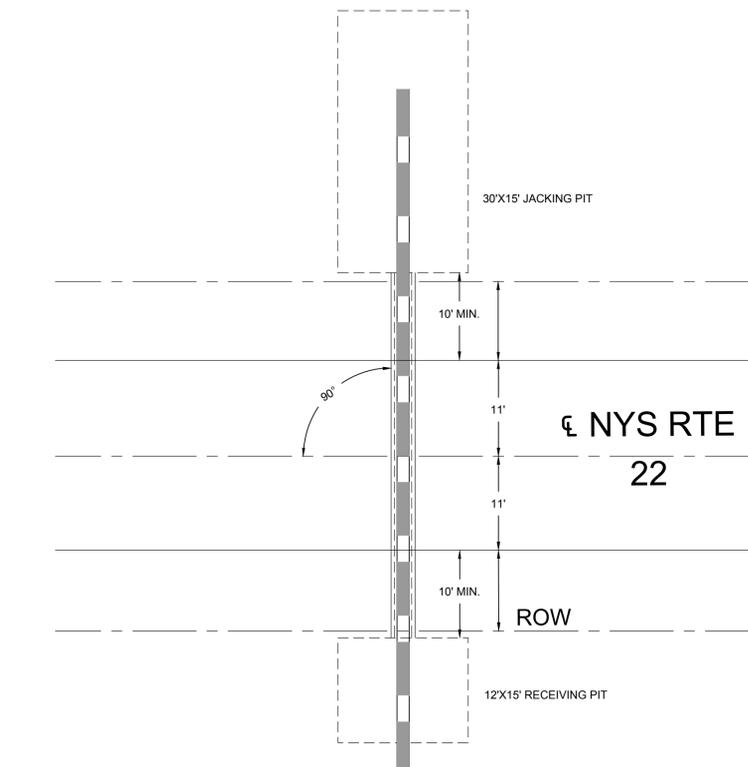
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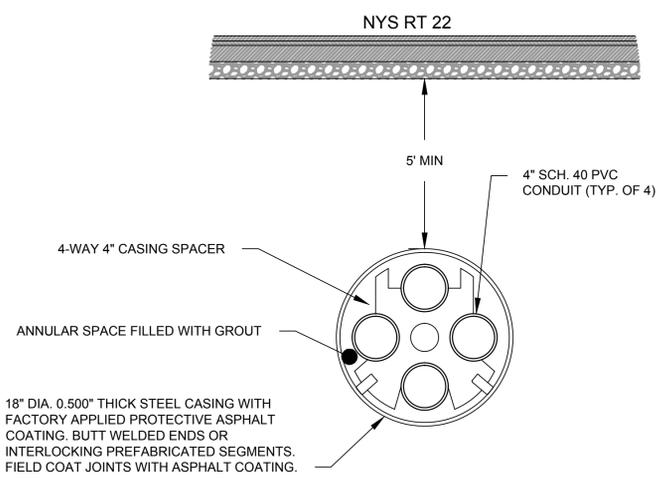
12  
E-504  
**TYPICAL TUNNEL WALL PENETRATION PARTIAL PLAN**  
SCALE: NONE



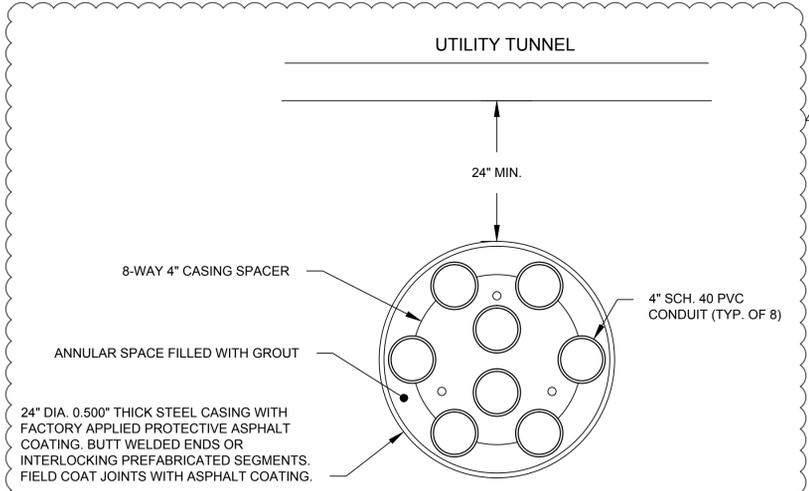
**INTERIOR MEDIUM VOLTAGE FEEDER IDENTIFICATION DETAIL**  
SCALE: NONE



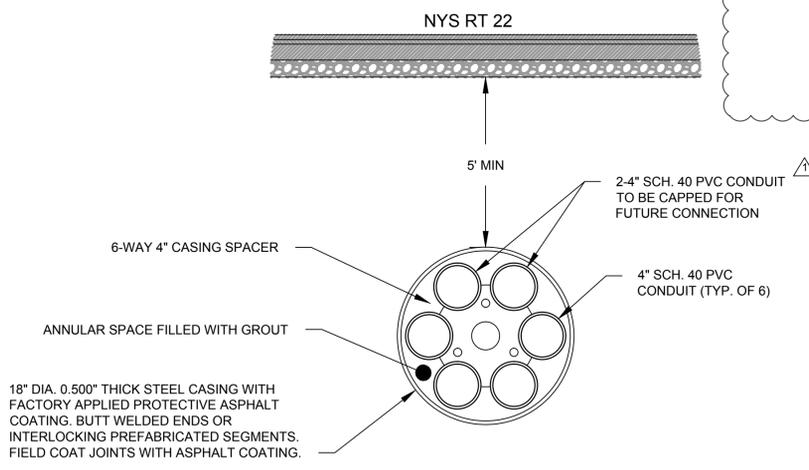
13  
E-504  
**TYPICAL NYS RTE 22 CROSSING**  
SCALE: NONE



13A  
E-504  
**4-WAY 4\"/>**



14  
E-504  
**8-WAY 4\"/>**



13B  
E-504  
**6-WAY 4\"/>**

- WHEN SUBMITTING THESE DRAWINGS TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION FOR A HIGHWAY WORK PERMIT:
- CONTRACTOR SHALL PROVIDE SHEETING AND SHORING SHOP DRAWINGS FOR THE LAUNCHING AND RECEIVING PITS, DESIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
  - CONTRACTOR SHALL PROVIDE PROPOSED TUNNELING METHOD, INCLUDING EQUIPMENT SPECIFICATIONS, DESCRIBING THE SIZE, CUTTER, TYPE, AND BRACING/ANCHORAGE DETAILS, AND METHOD FOR MONITORING AND FOLLOWING DESIGN LINE AND GRADE.
  - CONTRACTOR SHALL PROVIDE THE PROPOSED GROUTING METHOD, INCLUDING GROUT TUBE SIZE AND TYPE, GROUT HOLE LOCATION AND METHOD OF PLACEMENT/INSERTION, MAXIMUM PRESSURE CAPABILITY AND MAXIMUM (DESIGN) OPERATION PRESSURE.
  - CONTRACTOR SHALL LOCATE AND IDENTIFY THE NEAREST HIGHWAY MILE MARKER AND INDICATE ON THE DRAWINGS THE DISTANCE TO SAID MARKER.
  - CONTRACTOR SHALL IDENTIFY ANY ABANDONED UTILITIES.
  - SEE DETAILS 13A AND 13B ON THIS DRAWING.



**OGS**  
NYS OFFICE OF GENERAL SERVICES  
Serving New York  
ANDREW M. CUOMO  
Governor  
ROANN M. DESTITO  
Commissioner

CONSULTANT  
**rnf**  
RMF ENGINEERING, INC.  
120 DEFREEST DRIVE, SUITE 1  
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CONTRACT: **ELECTRICAL**  
TITLE: **UPGRADE ELECTRIC DISTRIBUTION SYSTEM, SITEWIDE**  
LOCATION: **GREAT MEADOW CORRECTIONAL FACILITY ROUTE 22 COMSTOCK, NY, 12821**  
CLIENT: **DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION**

MARK	DATE	DESCRIPTION
△	11-03-14	ADDENDUM NO. 3
△	10-27-14	ADDENDUM NO. 2
	12/27/13	BID DOCUMENTS
PROJECT NUMBER: <b>42534-E</b>		
DESIGNED BY: <b>DDFH</b>		
DRAWN BY: <b>DDFH</b>		
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APPROVED: <b>AJH</b>		
SHEET TITLE: <b>UTILITY DETAILS</b>		
DRAWING NUMBER: <b>E-504</b>		

8 7 6 5 4 3 2 1

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