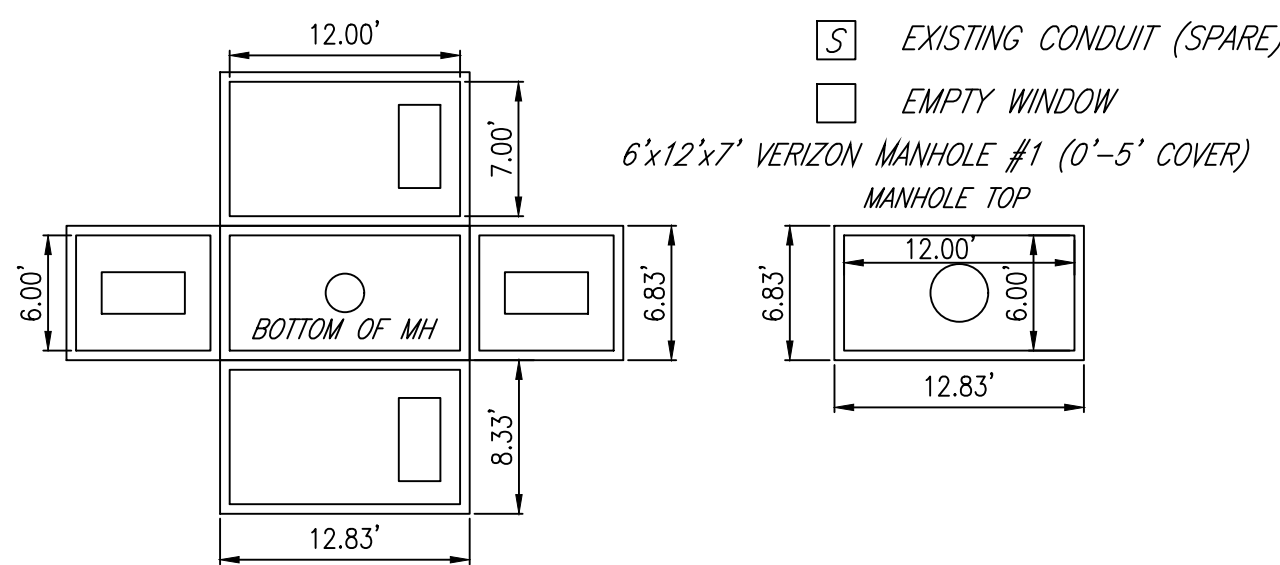
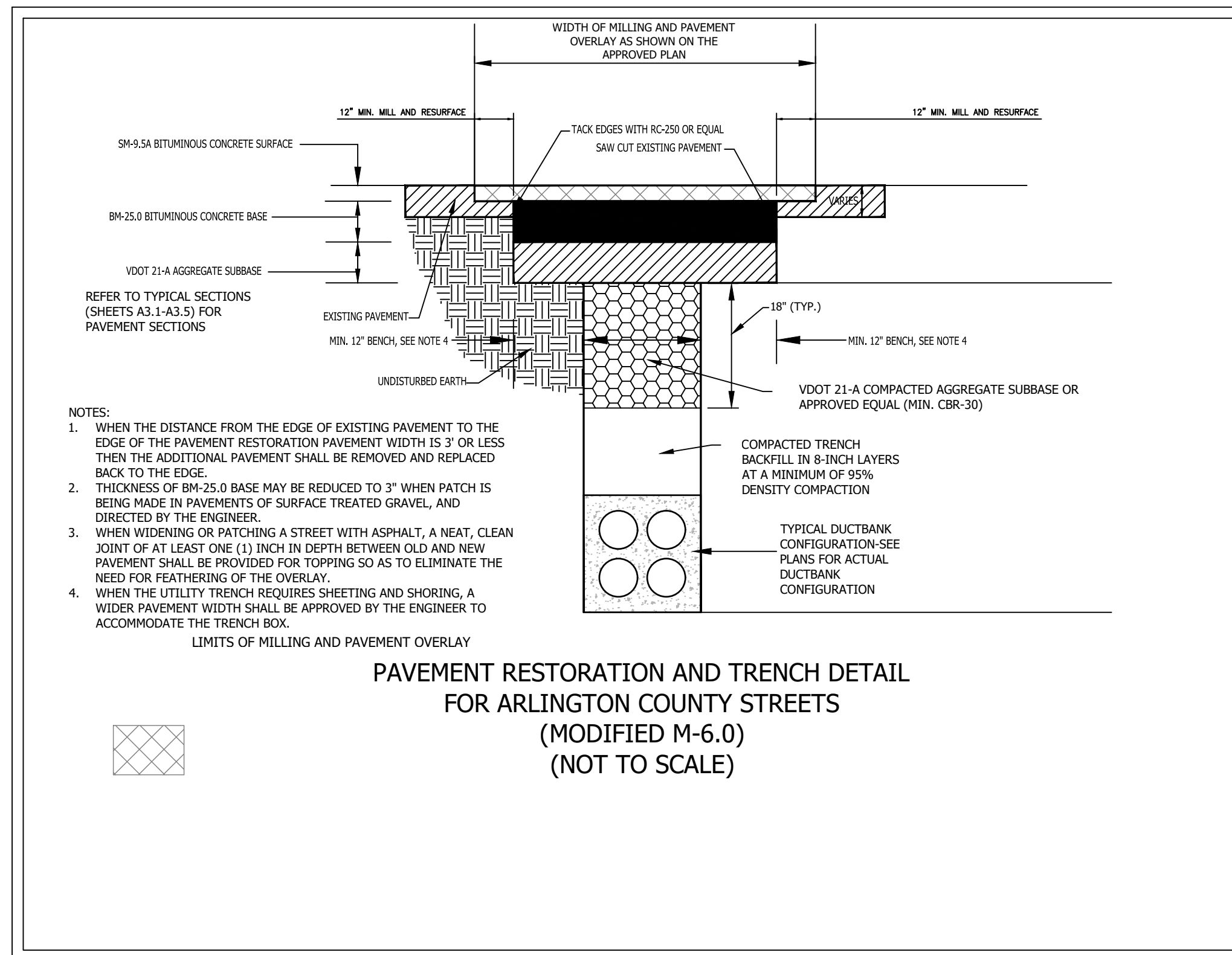
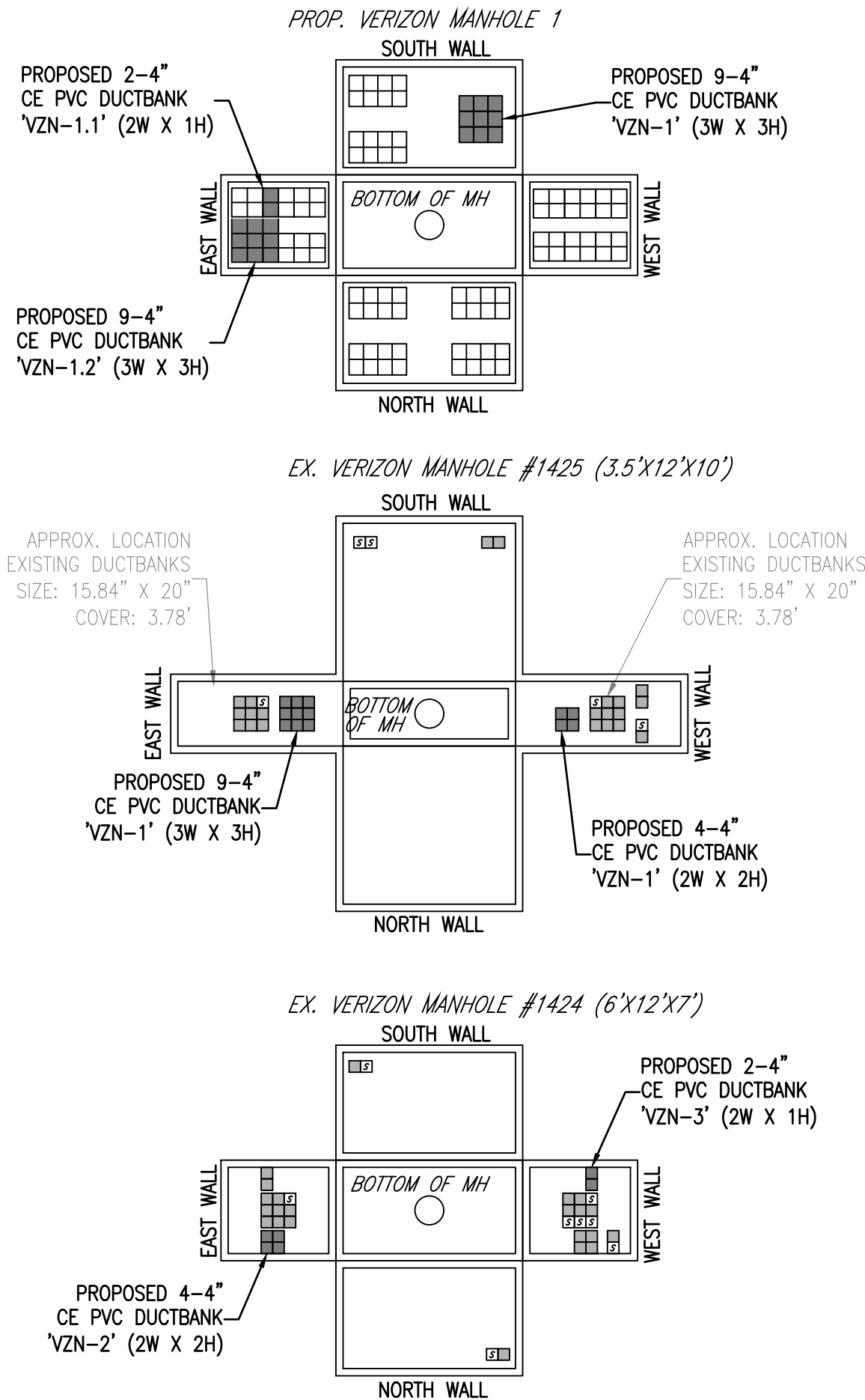


## MANHOLE DIAGRAMS

NOT TO SCALE

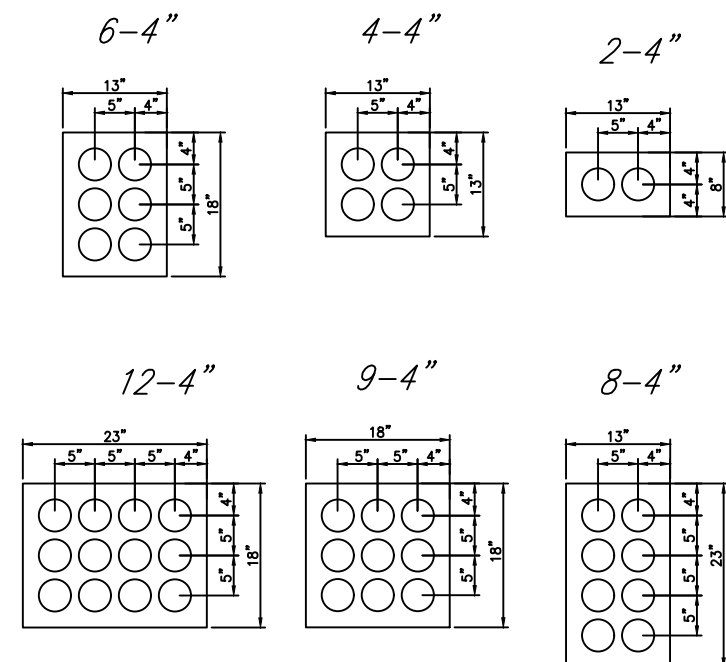


- PROPOSED CONDUIT
- EXISTING CONDUIT
- EXISTING CONDUIT (SPARE)
- EMPTY WINDOW



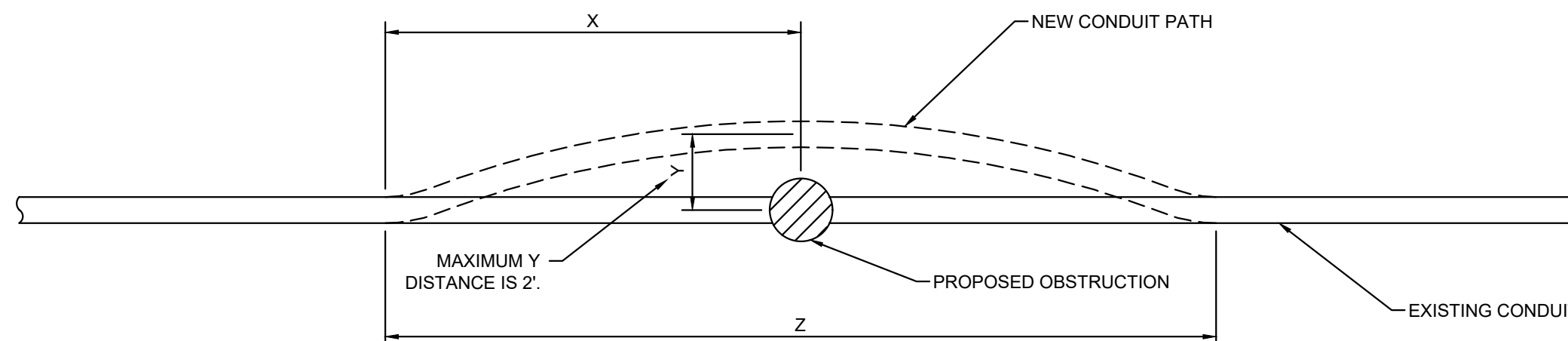
PAVEMENT RESTORATION AND TRENCH DETAIL  
FOR ARLINGTON COUNTY STREETS  
(MODIFIED M-6.0)  
(NOT TO SCALE)

## VERIZON & COMCAST DUCTBANKS



NOTE: CONCRETE ENCASEMENT FOR COMCAST IS NOT REQUIRED WHEN NOT ADJACENT TO OTHER CONCRETE ENCASED DUCT BANKS.

## FIBER OPTIC RELOCATION

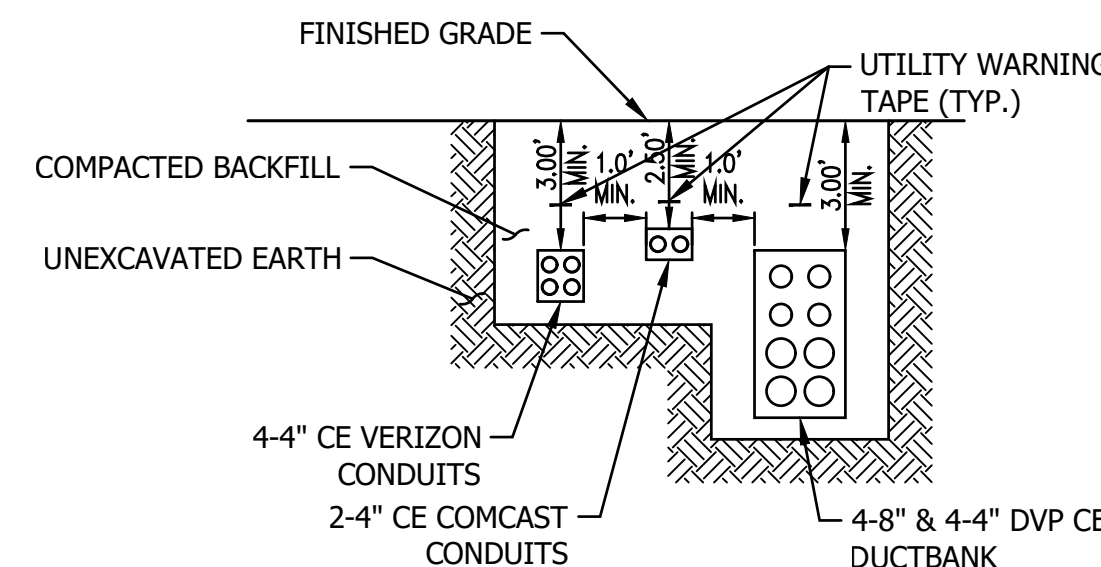


CONDUIT OFFSET TABLE		
Y	X	Z
0'-0.5'	5'	10'
1'	10'	20'
1.5'	15'	30'
2'	20'	40'

CONTRACTOR TO FIELD VERIFY THE EXISTING CABLE LENGTHS IN THE JUNCTION BOXES TO DETERMINE IF THE OFFSET CAN BE COMPLETED WITHOUT SPLICING.

### CONSTRUCTION NOTES:

- CONTRACTOR TO NOTIFY ARLINGTON COUNTY'S FIBER ENGINEER AT (703) 228-7726 WHENEVER WORK IS BEING DONE WITHIN 2' OF ANY ARLINGTON COUNTY FIBER LINE OR HANDHOLE.
- DO NOT BEND OR KINK CONDUIT WHEN MOVING.
- DO NOT APPLY HEAT, I.E. BLOW TORCH TO FACILITATE MOVING CONDUIT.
- CONTRACTOR SHALL EXCAVATE A MINIMUM OF X' IN EACH DIRECTION FROM OBSTRUCTION.
- CONTRACTOR SHALL EXCAVATE THE EXISTING CONDUIT USING A MANUAL AND/OR HAND DIGGING METHOD SO AS TO NOT DAMAGE THE EXISTING CONDUIT.
- MAXIMUM CONDUIT OFFSET IS 2'.
- WHEN RELOCATION OF COUNTY FIBER SYSTEM EXCEEDS A 2' OFFSET AND/OR IF SPLICING IS REQUIRED, THEN ONE(1) OF THE COUNTY'S PRE-APPROVED SPLICING CONTRACTORS SHALL BE USED.
- a. CALL (703) 228-7726 TO OBTAIN A LIST OF CURRENTLY APPROVED CONTRACTORS.
- b. COST FOR ADJUSTING, RELOCATING AND/OR SPLICING SHALL BE PART OF COST FOR UTILITY BEING INSTALLED (WHICH CAUSES THE CONFLICT).
- CONDUIT EXCAVATION AND MANIPULATION SHALL ONLY BE PERFORMED IN THE PRESENCE OF A COUNTY FIBER ENGINEER (703) 228-7726.
- NO MECHANICAL ASSISTANCE SHALL BE USED TO REPOSITION THE FIBER CONDUIT.
- RING CUTS AND INSTALLATION OF COUPLERS AND SLIT DUCT SHALL BE PERFORMED ONLY BY THE COUNTY'S FIBER OPTIC MAINTENANCE CONTRACTOR.
- NEW EMPTY FACILITIES MAY BE CONSTRUCTED BY OTHER CONTRACTORS WITH INSPECTIONS BY COUNTY FIBER CONTRACTORS OR ENGINEERS. RELOCATION OF THE FIBER OPTIC CABLE AND RESPLICING MAY ONLY BE PERFORMED BY THE COUNTY'S ON-CALL FIBER CONTRACTOR(S).



TYPICAL UNDERGROUND UTILITY SECTION  
NOT TO SCALE

### PROPOSED CONSTRUCTION SEQUENCE & RESPONSIBILITY:

- DOMINION ENERGY OF VIRGINIA OR VERIZON TO INSTALL PROPOSED POLES.
- CONTRACTOR TO INSTALL PROPOSED DUCTBANKS, CONDUITS, SPLICE BOXES AND HANDHOLES WITH INSPECTIONS BY ARLINGTON COUNTY, DOMINION ENERGY OF VIRGINIA, VERIZON, AND COMCAST.
- ARLINGTON COUNTY TO NOTIFY DOMINION ENERGY OF VIRGINIA, VERIZON, AND COMCAST WHEN DUCTBANK AND CONDUIT INSTALLATION IS COMPLETE.
- DOMINION ENERGY OF VIRGINIA TO PULL CABLE THROUGH DUCTBANK AND INSTALL TRANSFORMERS & BOLLARDS.
- DOMINION ENERGY OF VIRGINIA TO REMOVE EXISTING OVERHEAD CABLES.
- VERIZON TO PULL CABLE THROUGH VERIZON CONDUIT AND PEDESTAL.
- VERIZON TO REMOVE EXISTING OVERHEAD CABLES.
- COMCAST TO PULL CABLE THROUGH COMCAST CONDUIT AND VAULTS.
- COMCAST TO REMOVE EXISTING OVERHEAD CABLES.
- POLE OWNERS TO REMOVE EXISTING POLES ONCE ALL OVERHEAD CABLES HAVE BEEN REMOVED.

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRY UTILITY DETAILS  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE: HOR. 1" = 25' VERT. 1" = 5'

SHEET: A21.4 of A21.14

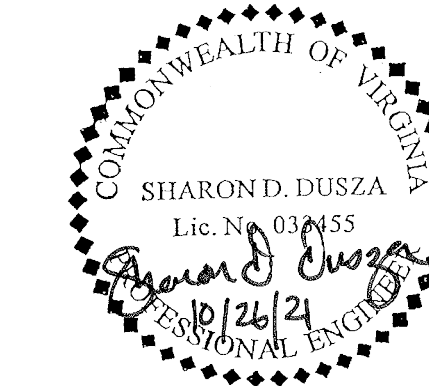


DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**rda**  
Rinker Design  
Associates, P.C.

11100 Endeavor Court, Suite 200, Manassas VA, 20109  
www.rdacivil.com  
Telephone: (703) 568-7373



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-DETAILS.dwg  
Path: 11/23/2021  
Plotted: October 26, 2021  
Plotted by: ccorcoran

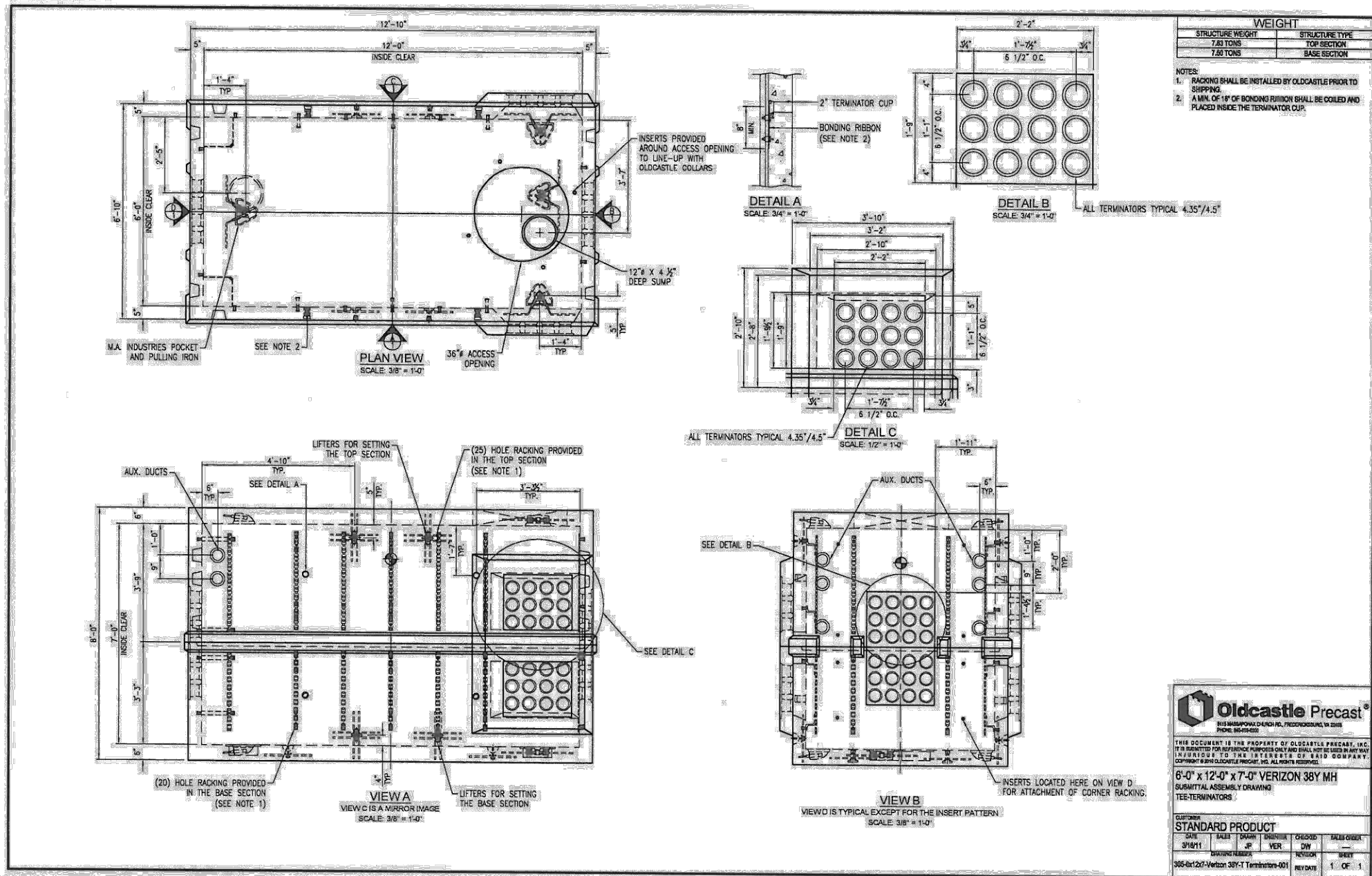


DEPARTMENT OF  
ENVIRONMENTAL SERVICES

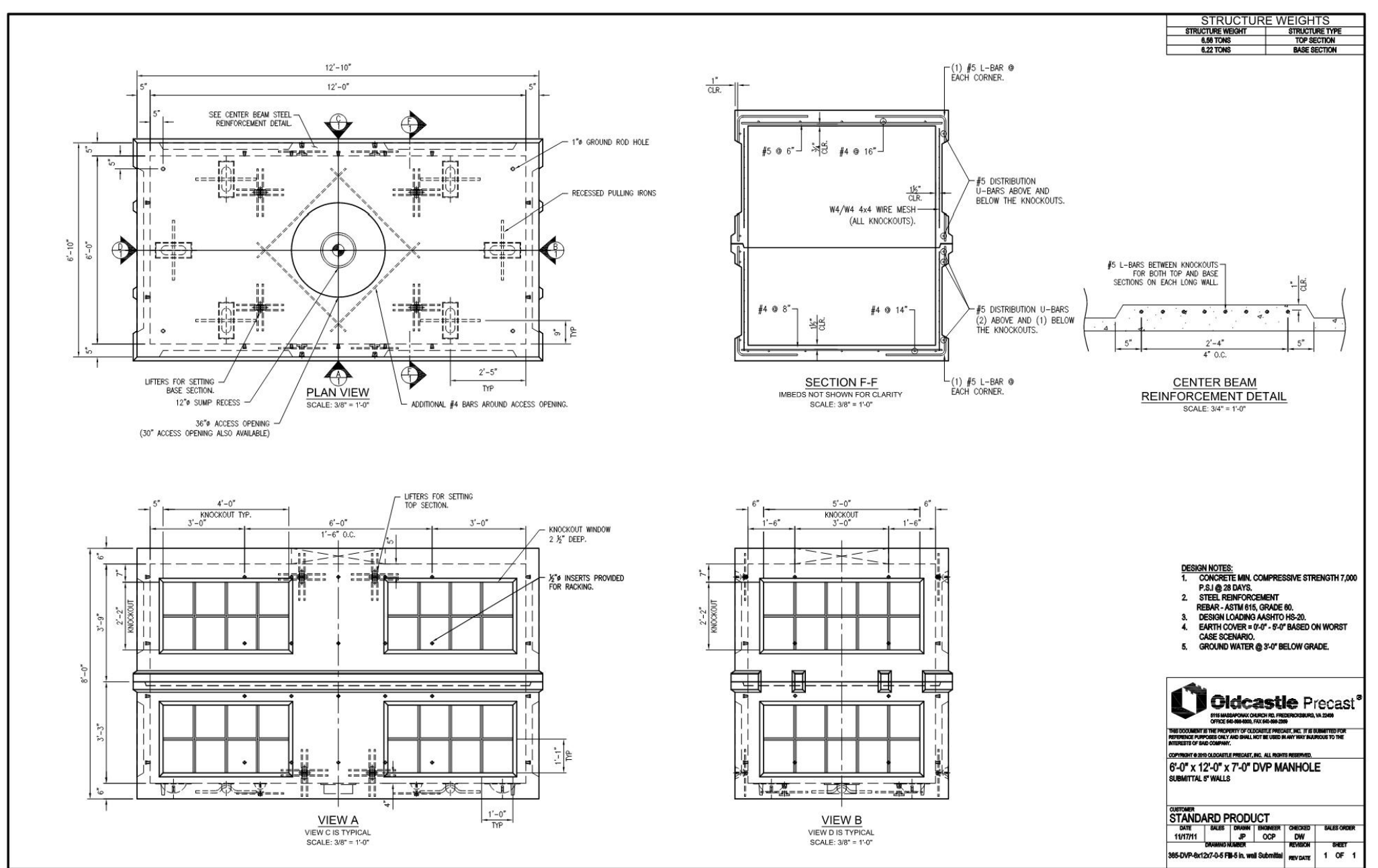
11/23/2021  
APPROVAL DATE



6'x12'x7' VERIZON MANHOLE

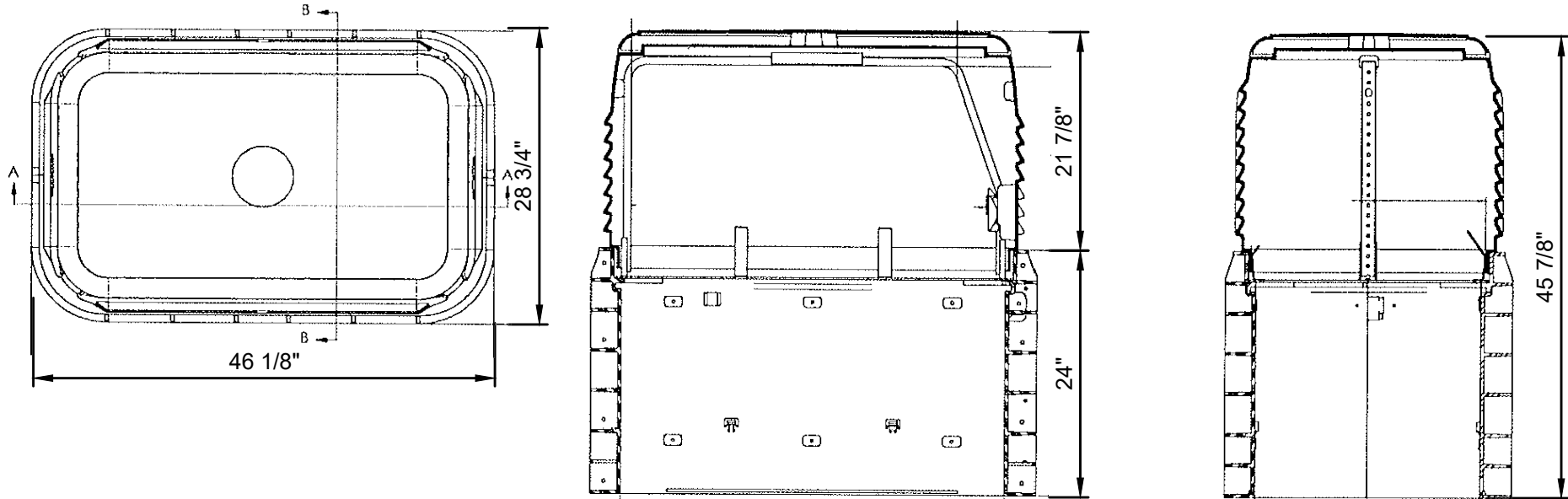


6'X12'X7' DEV UTILITY VAULT (0'-5" COVER)

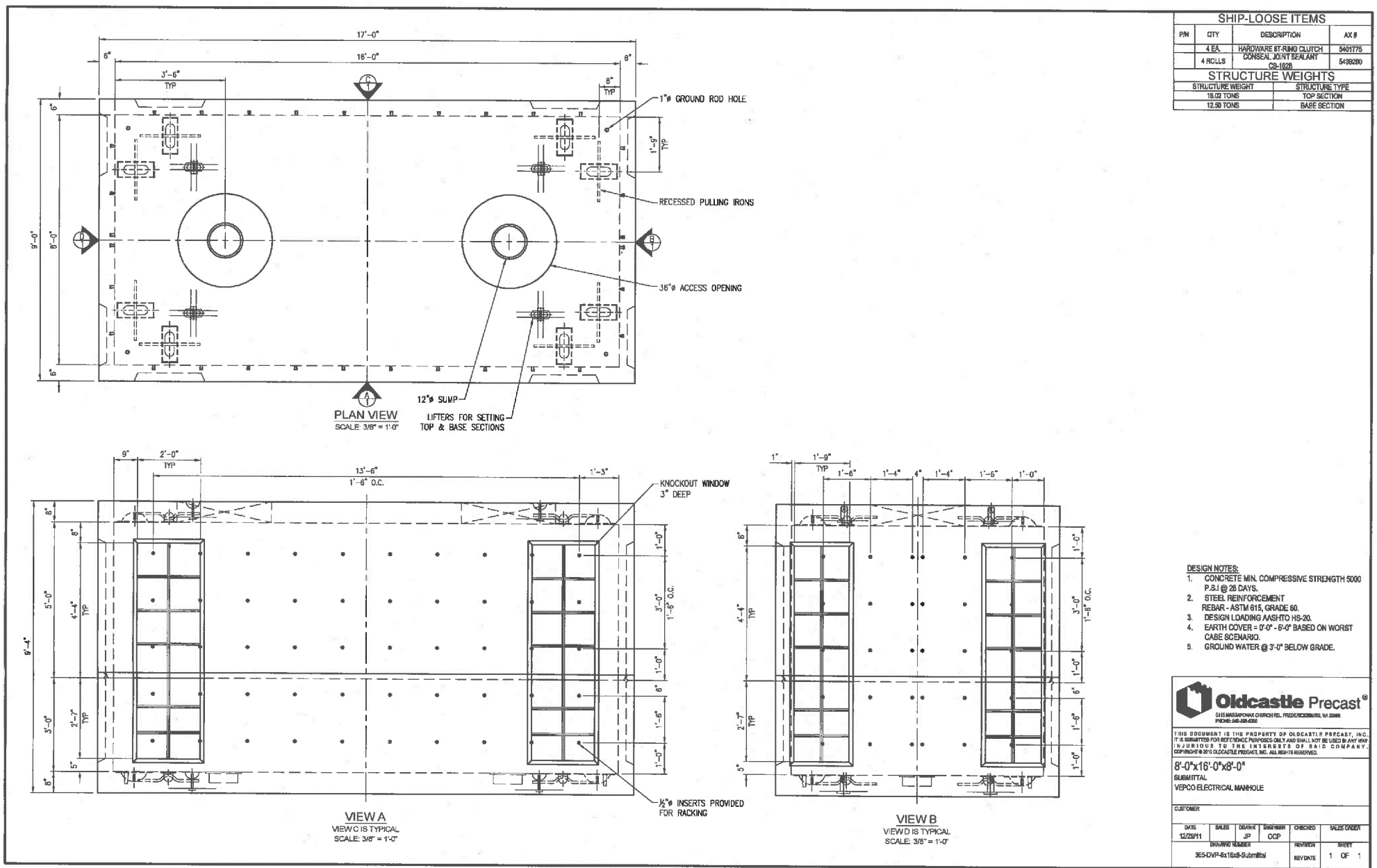


COMCAST PEDESTAL (OPTIMUS SUPER-VENT 24"X42")

OSV 2442 Dimensions



8'X16'X8' DEV UTILITY VAULT (0'-5" COVER)

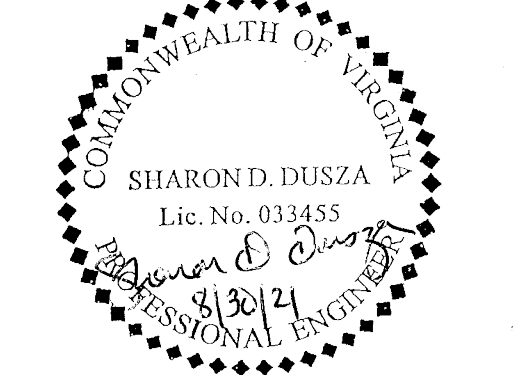


DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**Rinker Design Associates, P.C.**  
11100 Endeavor Court, Suite 200, Manassas VA, 20109  
www.rdcivil.com  
Telephone: (703) 368-7373

Seal Date



Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-DEV PROFILE.dwg  
Path:  
Plotted: September 01, 2021  
Plotted by: ccorcoran

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRY UTILITY DETAILS  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

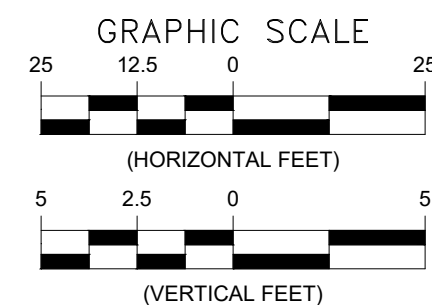
SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: A21.5 of A21.14



DEPARTMENT OF ENVIRONMENTAL SERVICES

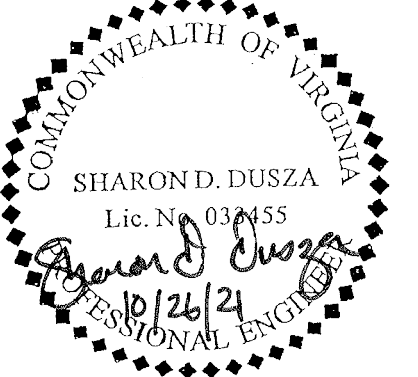
11/23/2021  
APPROVAL DATE





**Rinker Design  
Associates, P.C.**

11100 Endeavor Court, Suite 200, Manassas VA, 20109  
[www.rdcivil.com](http://www.rdcivil.com)  
 Telephone: (703) 368-7373



Project Manager

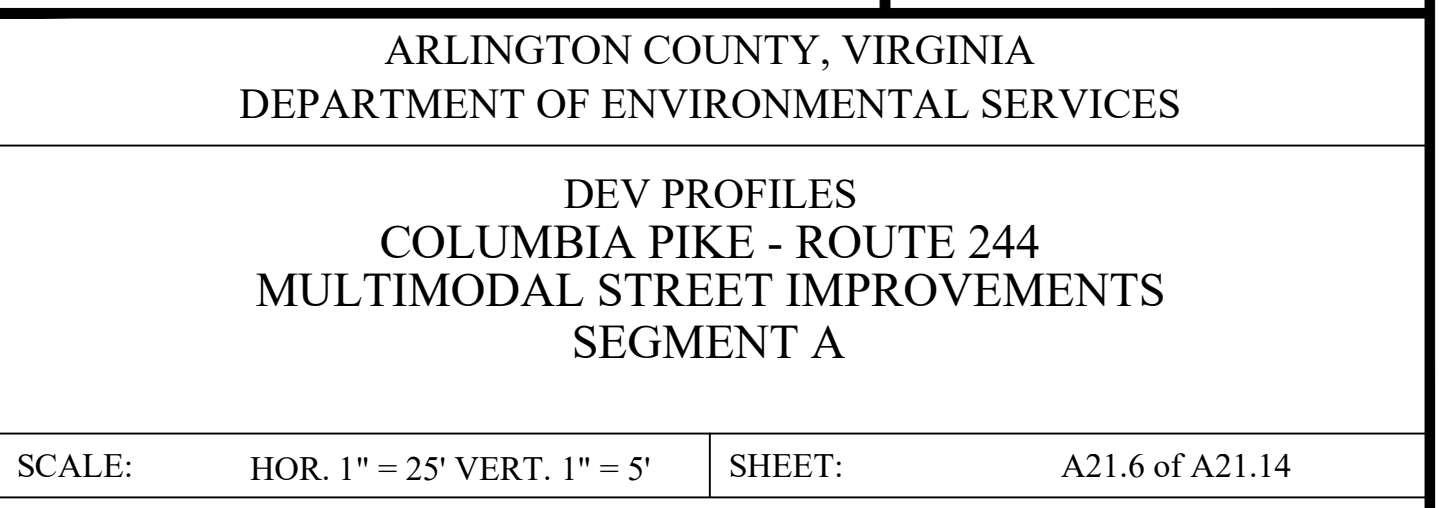
Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-DEV PROFILE.dwg  
Path: M:\work\16094\16094-002 Columbia Plc all Phases\Schematic\Segment A  
Plotted: October 26, 2021  
Plotted by: ccorcoran

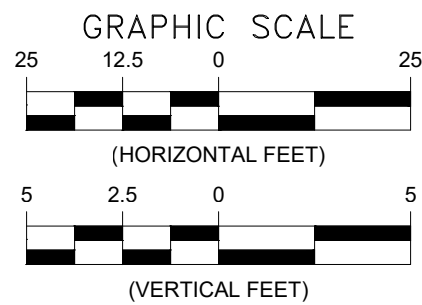
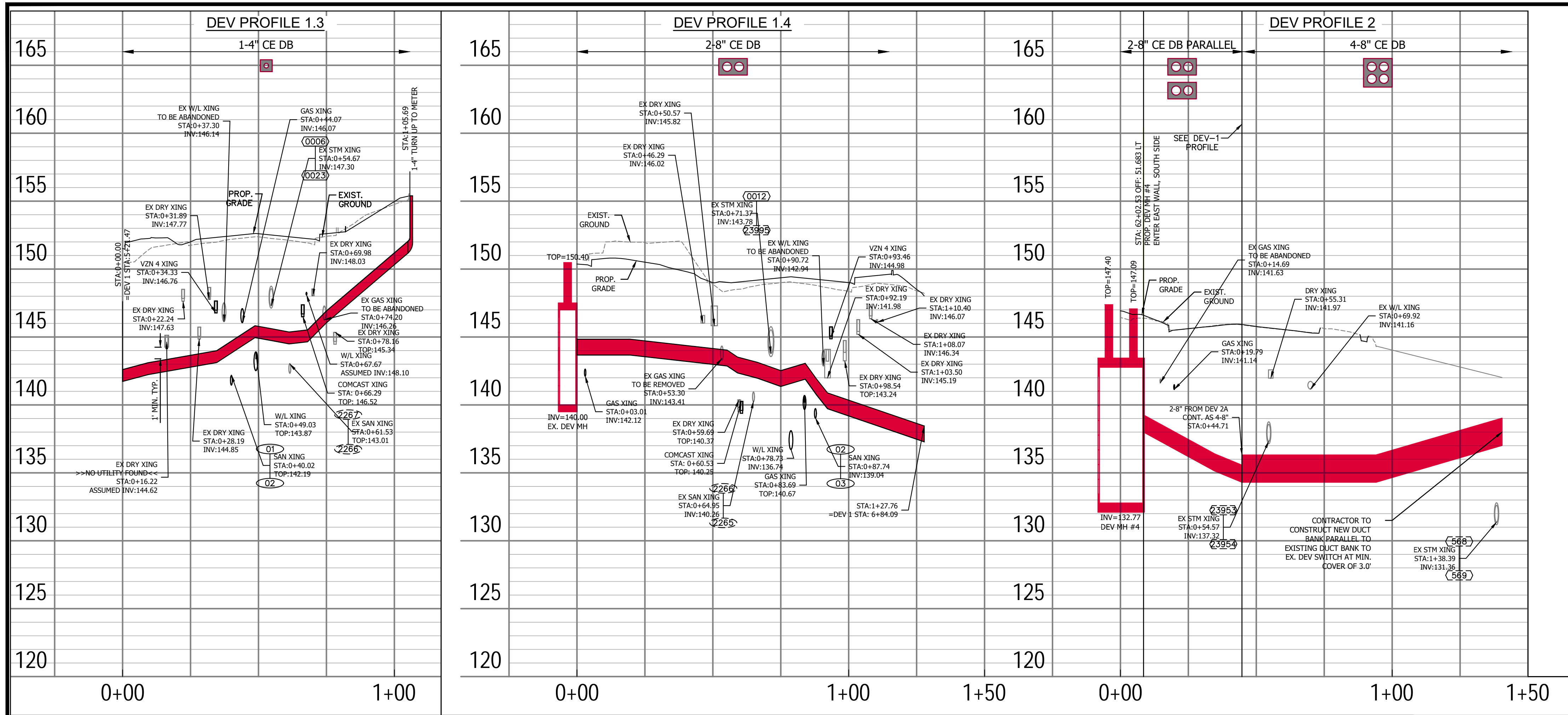
NOTES:

1. APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC., WHICH WILL BE CONSTRUCTED, BY THE DEVELOPER, FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DEV FACILITIES SUCH AS POLES, CABLES, ELECTRICAL DEVICES (TRANSFORMERS AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.

2. WASHINGTON GAS PROPOSED LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE INSTALLED BY OTHERS. PLEASE REFERENCE EXCAVATION PERMIT #EXCV21-01093 FOR MORE INFORMATION.







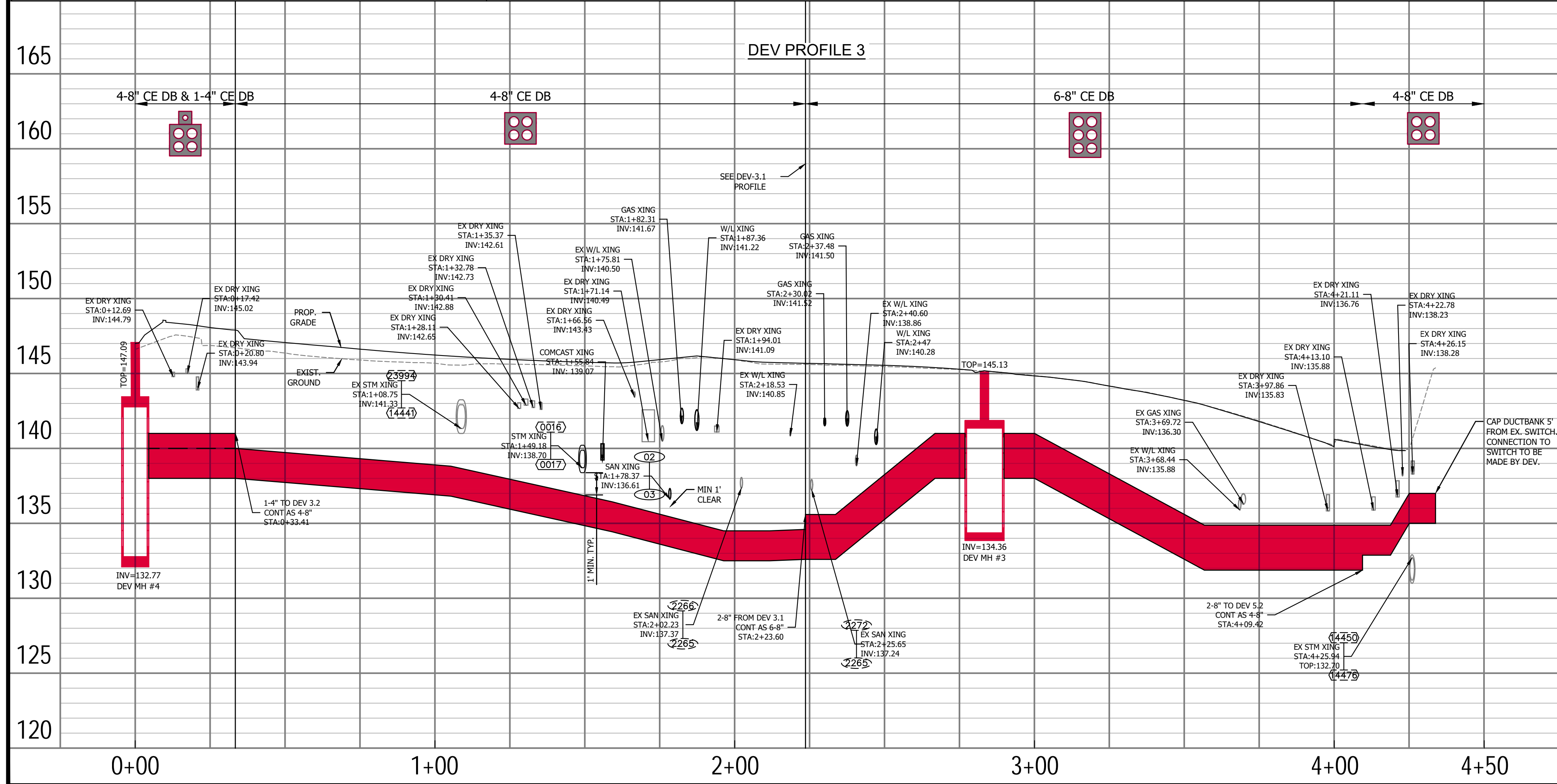
Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-DEV PROFILE.dwg  
Path:  
Plotted: October 26, 2021  
Plotted by: ccorcoran

- NOTES:
- APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC., WHICH WILL BE CONSTRUCTED, BY THE DEVELOPER, FOR THE UTILITY COMPANY'S USE. RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DEV FACILITIES SUCH AS POLES, CABLES, ELECTRICAL DEVICES (TRANSFORMERS AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.
  - WASHINGTON GAS PROPOSED LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE INSTALLED BY OTHERS. PLEASE REFERENCE EXCAVATION PERMIT #EXCV21-01093 FOR MORE INFORMATION.

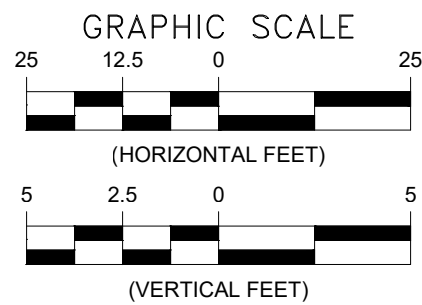
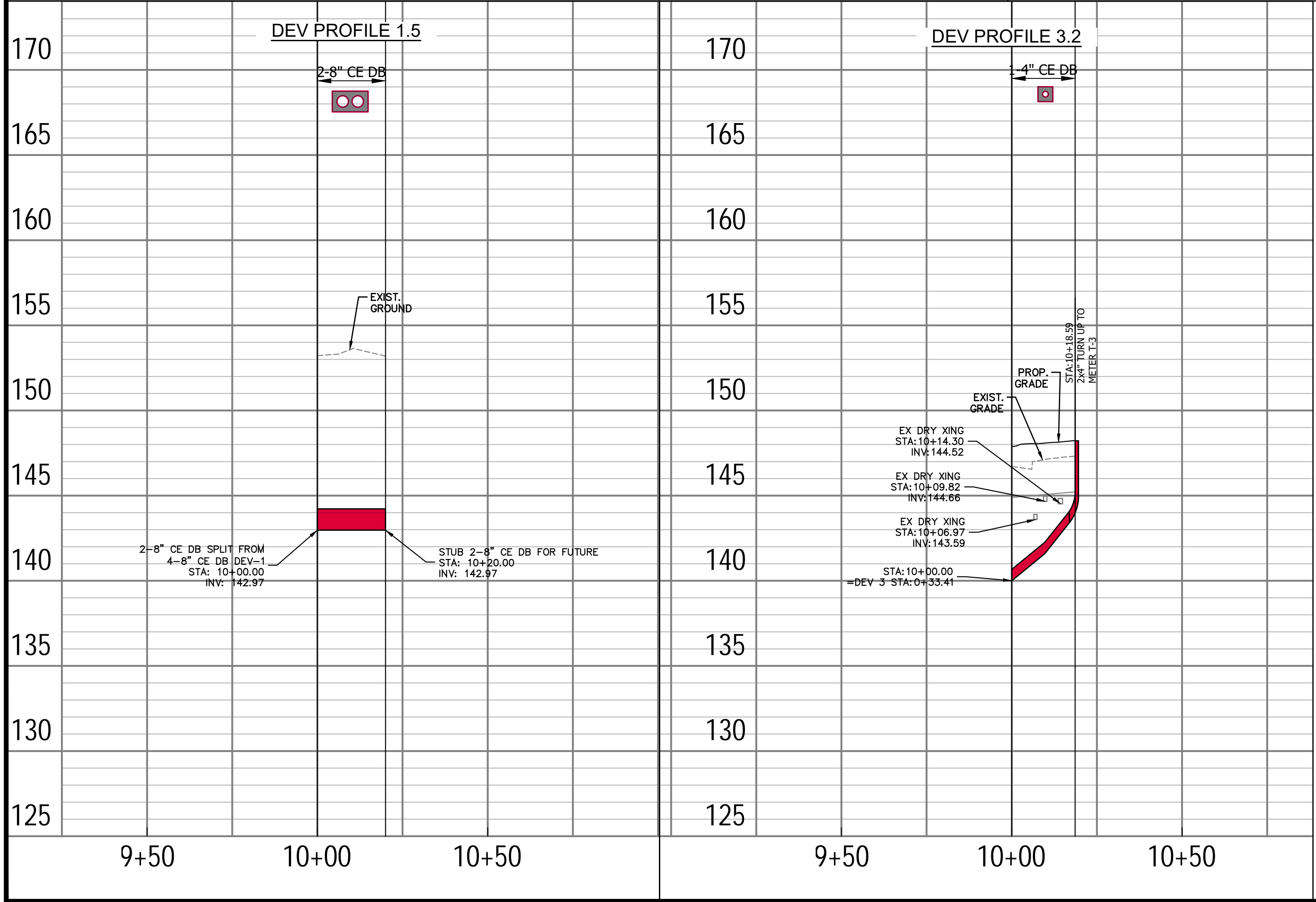
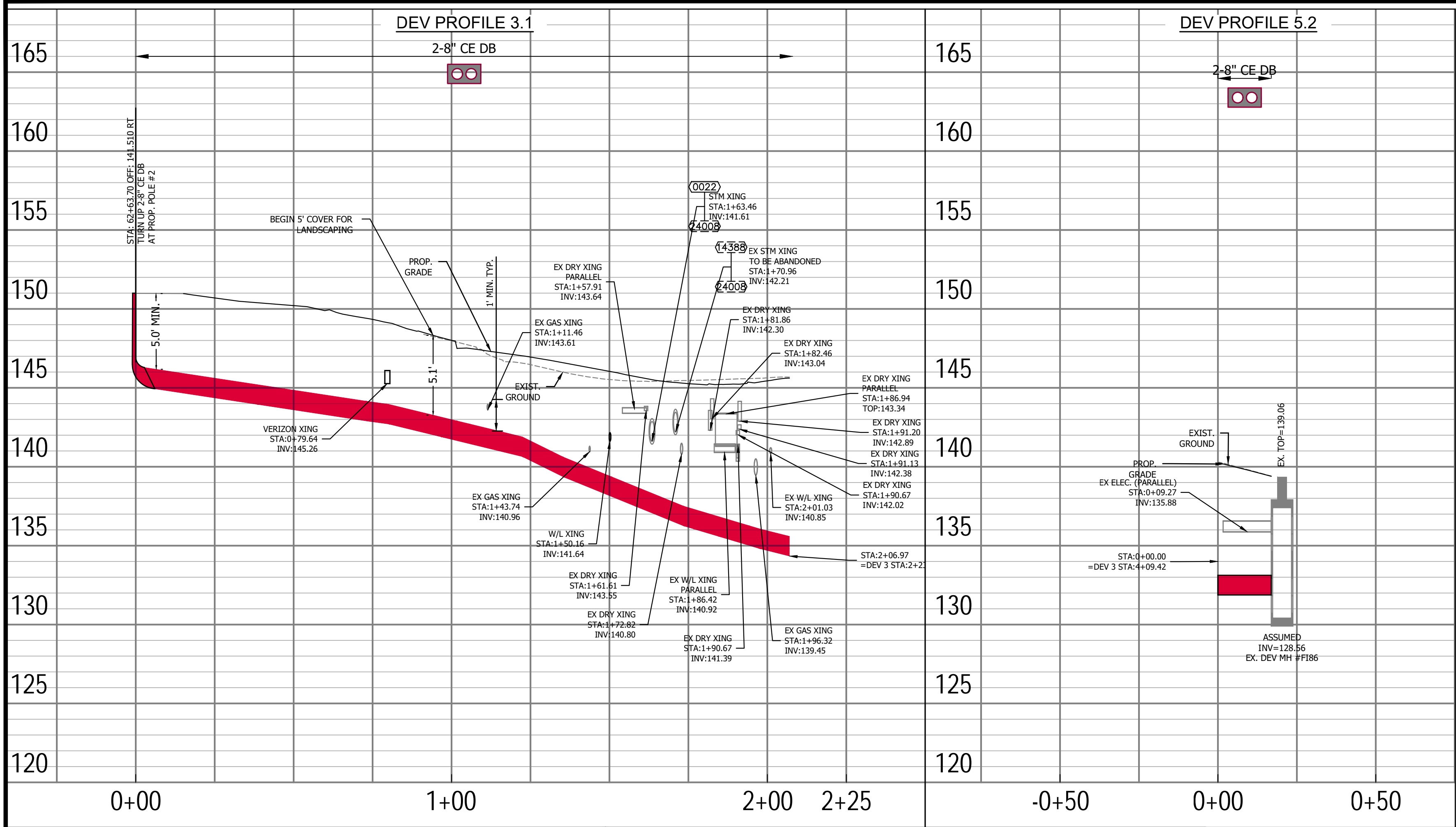


ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DEV PROFILES  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE:	HOR. 1" = 25' VERT. 1" = 5'	SHEET:	A21.7 of A21.14
--------	-----------------------------	--------	-----------------





ARLINGTON  
VIRGINIA

DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

rda  
Rinker Design  
Associates, P.C.  
11100 Endeavor Court, Suite 200, Manassas VA, 20109  
www.rdacivil.com  
Telephone: (703) 368-7373

Seal Date

COMMONWEALTH OF VIRGINIA

SHARON D. DUSZA  
Lic. No. 033433  
Professional Engineer

Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-DEV PROFILE.dwg  
Path: M:\work\10073\0073-A21-DEV PROFILE.dwg  
Plotted: October 26, 2021  
Plotted by: ccorcoran

NOTES:

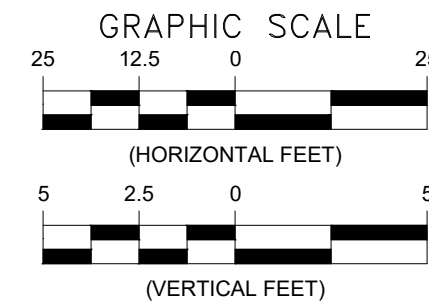
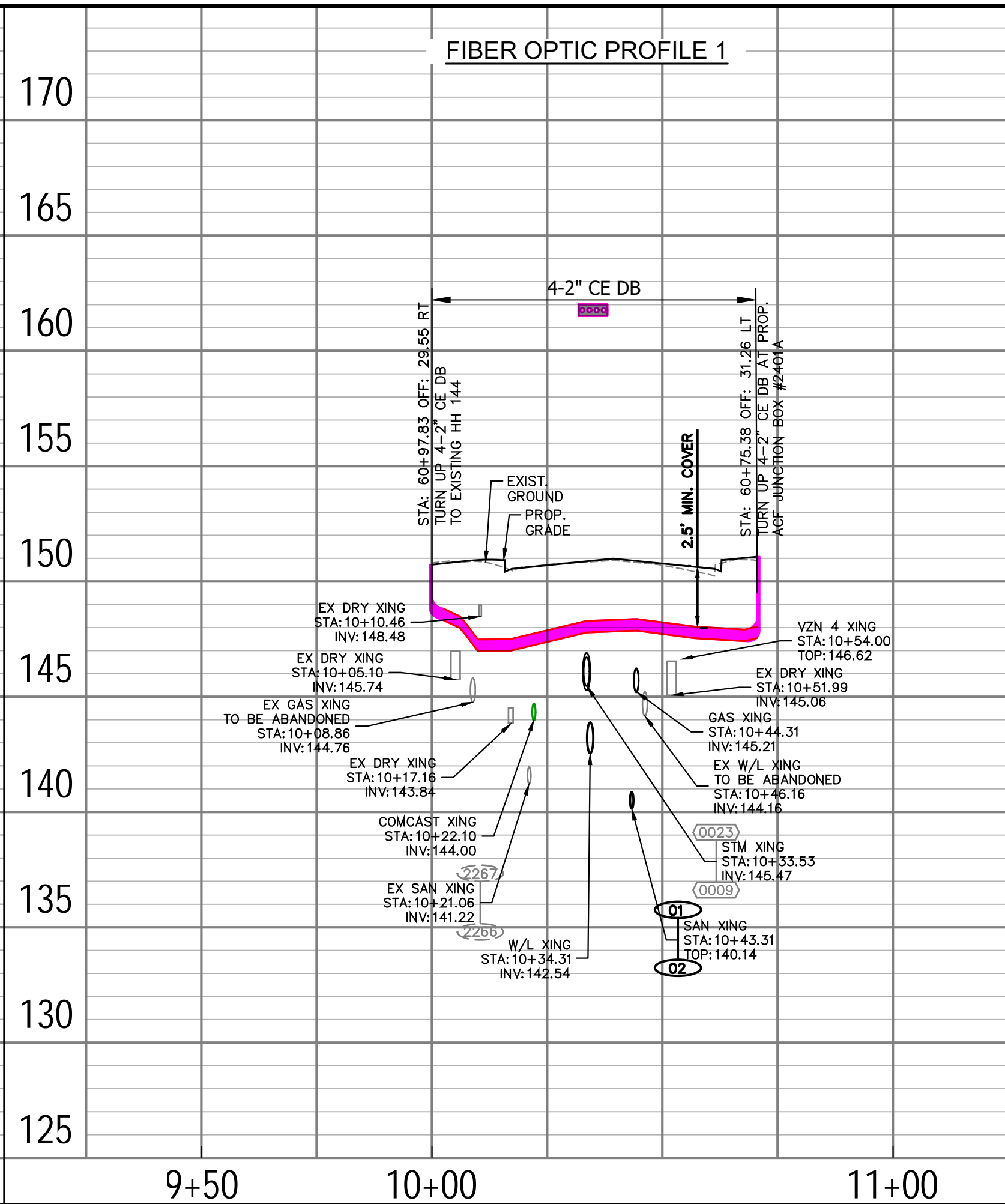
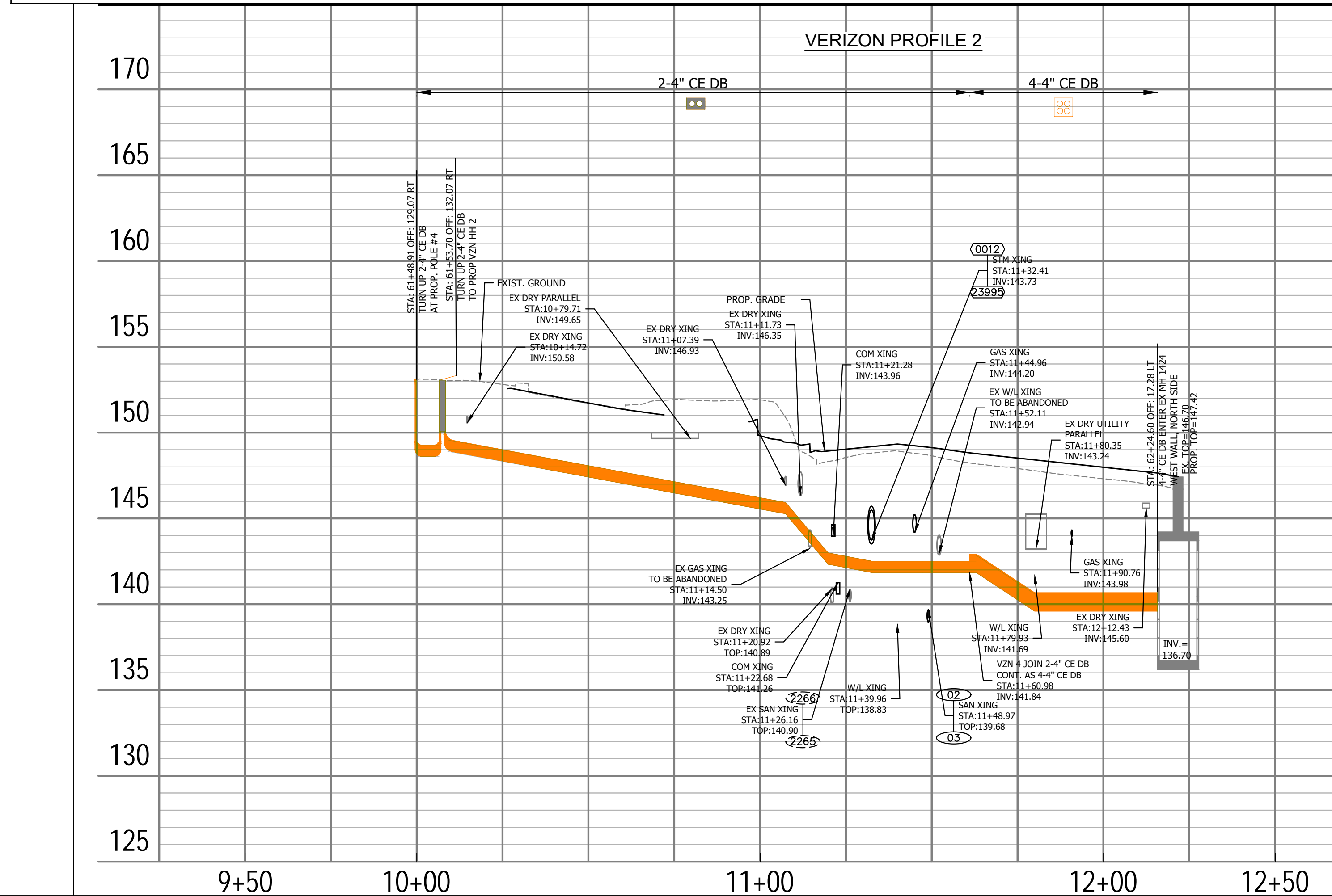
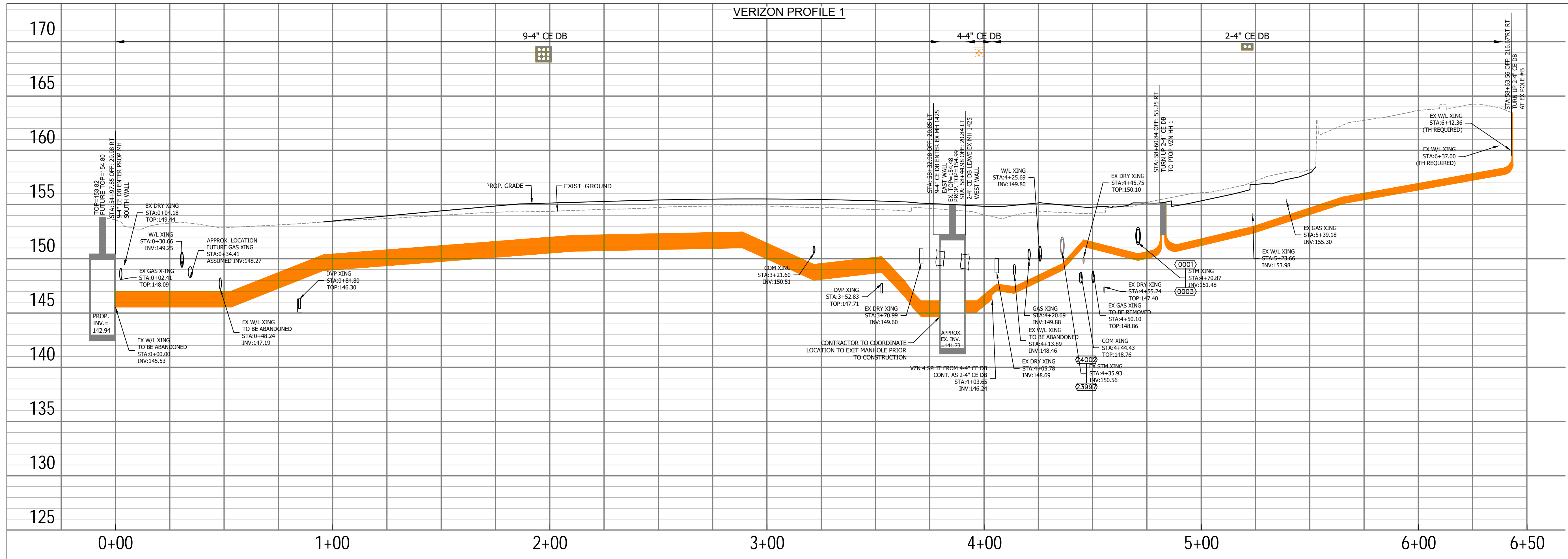
- APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC., WHICH WILL BE CONSTRUCTED, BY THE DEVELOPER, FOR THE UTILITY COMPANY'S USE. RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DEV FACILITIES SUCH AS POLES, CABLES, ELECTRICAL DEVICES (TRANSFORMERS AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.
- WASHINGTON GAS PROPOSED LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE INSTALLED BY OTHERS. PLEASE REFERENCE EXCAVATION PERMIT #EXCV21-01093 FOR MORE INFORMATION.

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DEV PROFILES  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: A21.8 of A21.14





NOTE:  
WASHINGTON GAS PROPOSED LINES  
ARE SHOWN FOR REFERENCE ONLY  
AND ARE TO BE INSTALLED BY OTHERS.  
PLEASE REFERENCE EXCAVATION  
PERMIT #EXCV21-01093 FOR MORE  
INFORMATION.

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

VERIZON PROFILES  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: A21.9 of A21.14

Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-VERIZON PROFILE.dwg  
Path:  
Plotted: October 28, 2021  
Plotted by: ccorcoran

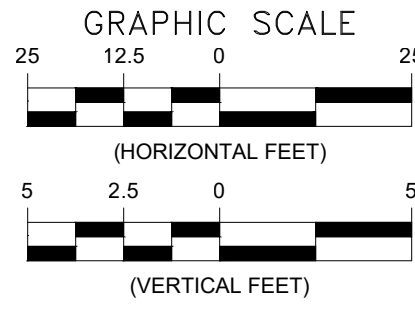
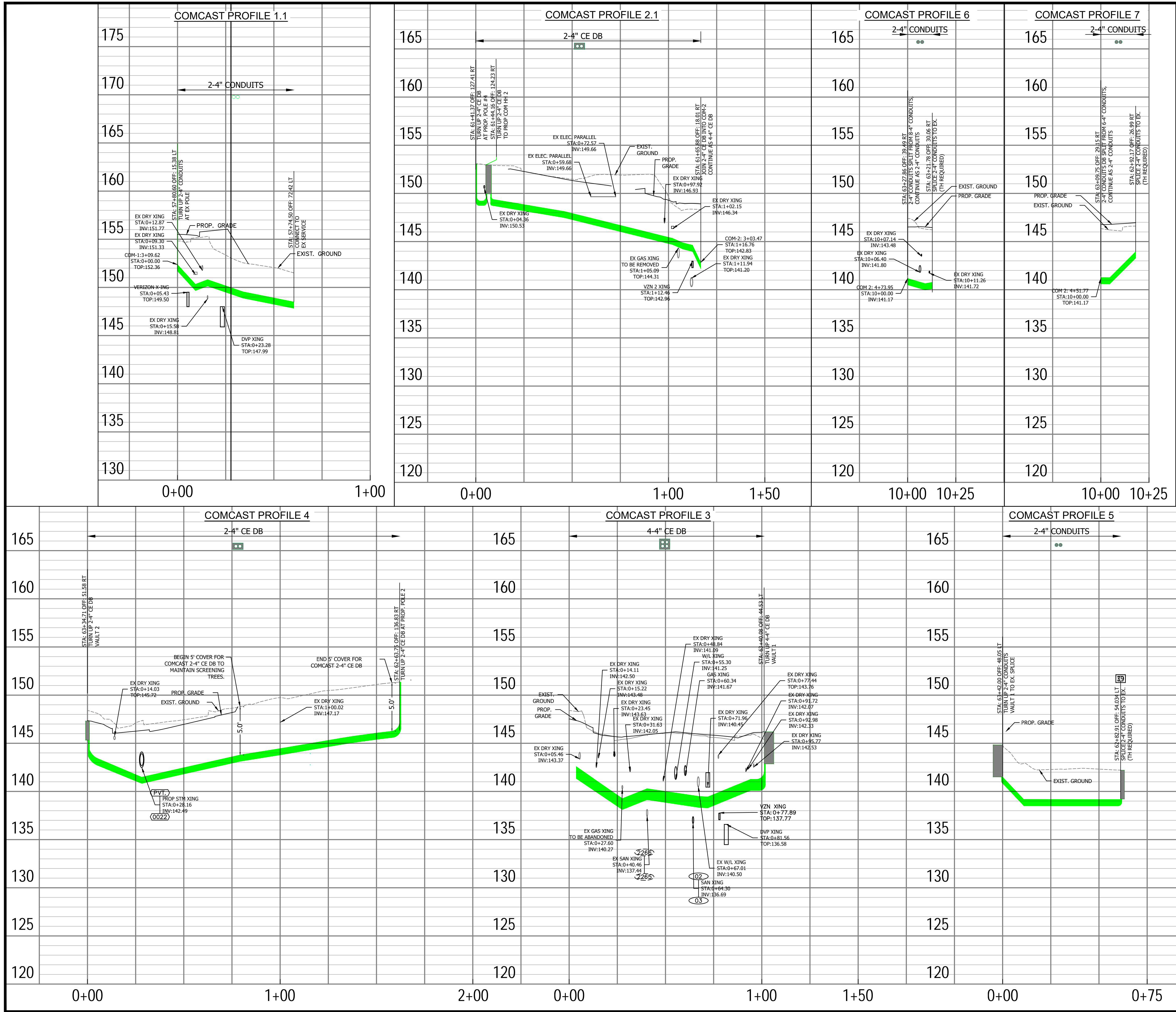












NOTE:  
WASHINGTON GAS PROPOSED LINES  
ARE SHOWN FOR REFERENCE ONLY  
AND ARE TO BE INSTALLED BY OTHERS.  
PLEASE REFERENCE EXCAVATION  
PERMIT #EXCV21-01093 FOR MORE  
INFORMATION.

**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**rda**  
**Rinker Design Associates, P.C.**  
11100 Endeavor Court, Suite 200, Manassas VA, 20109  
www.rdacivil.com  
Telephone: (703) 568-7373

COMMONWEALTH OF VIRGINIA  
SHARON D. DUSZA  
Lic. No. 031155  
10/26/21  
Professional Engineer

Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

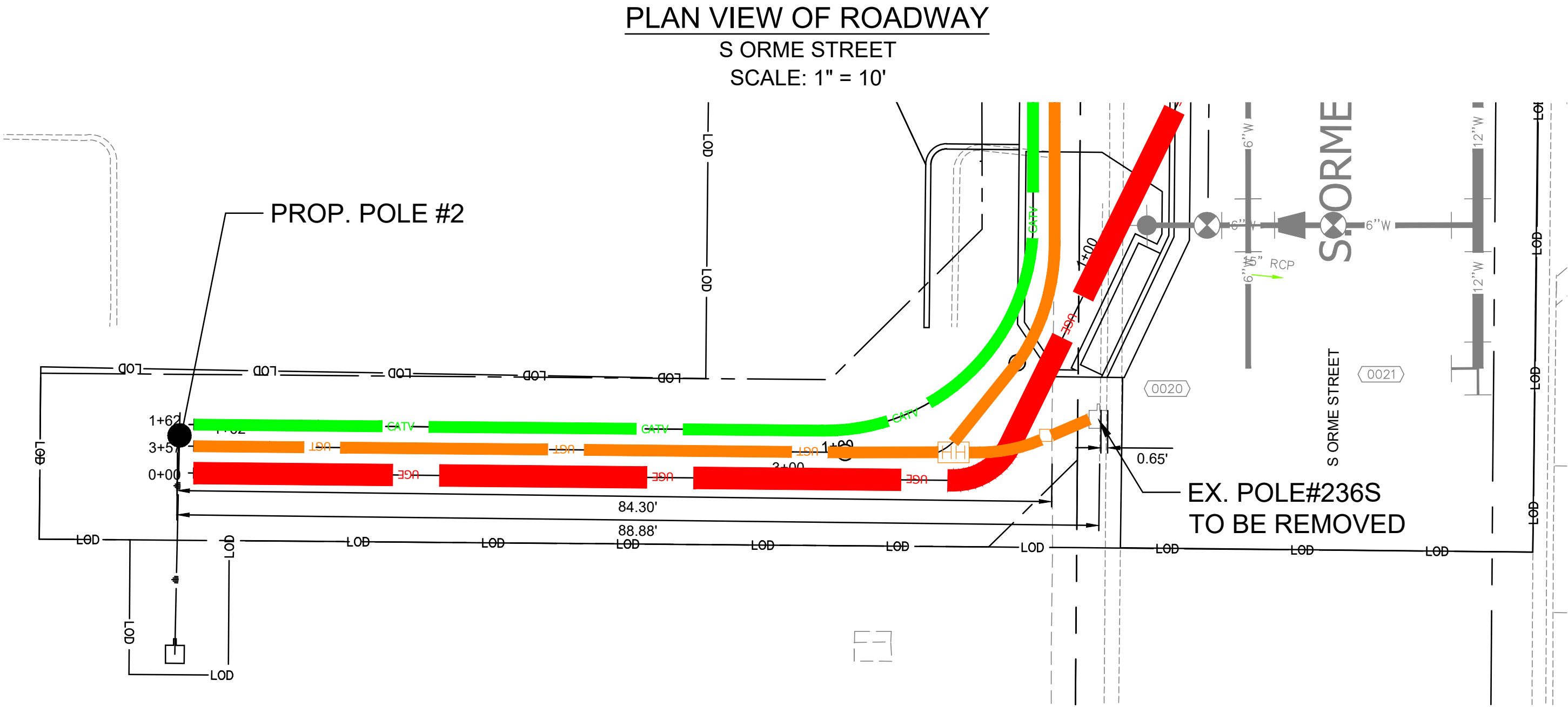
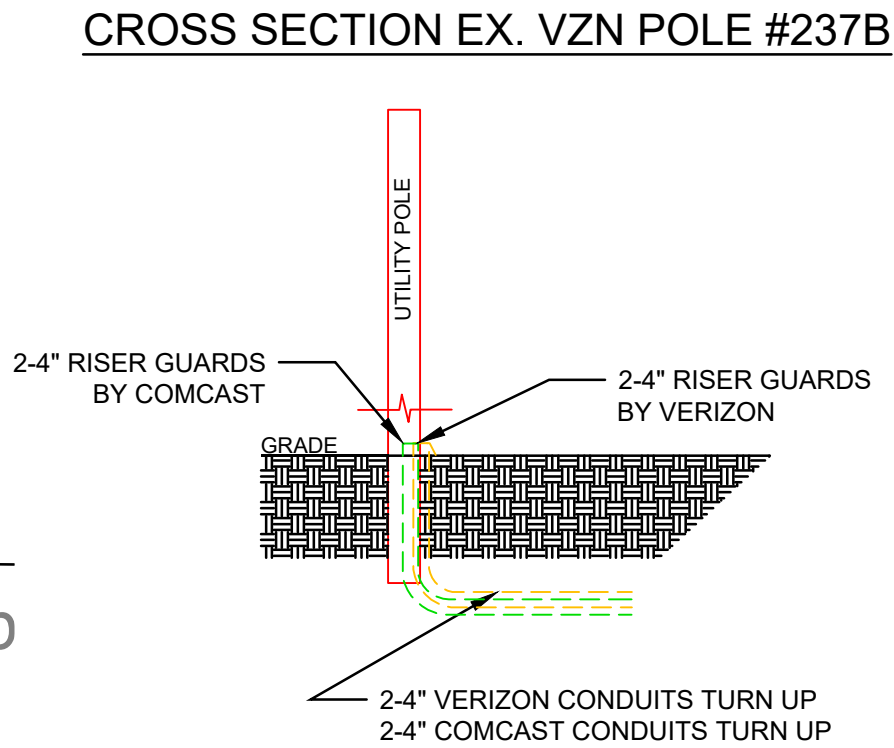
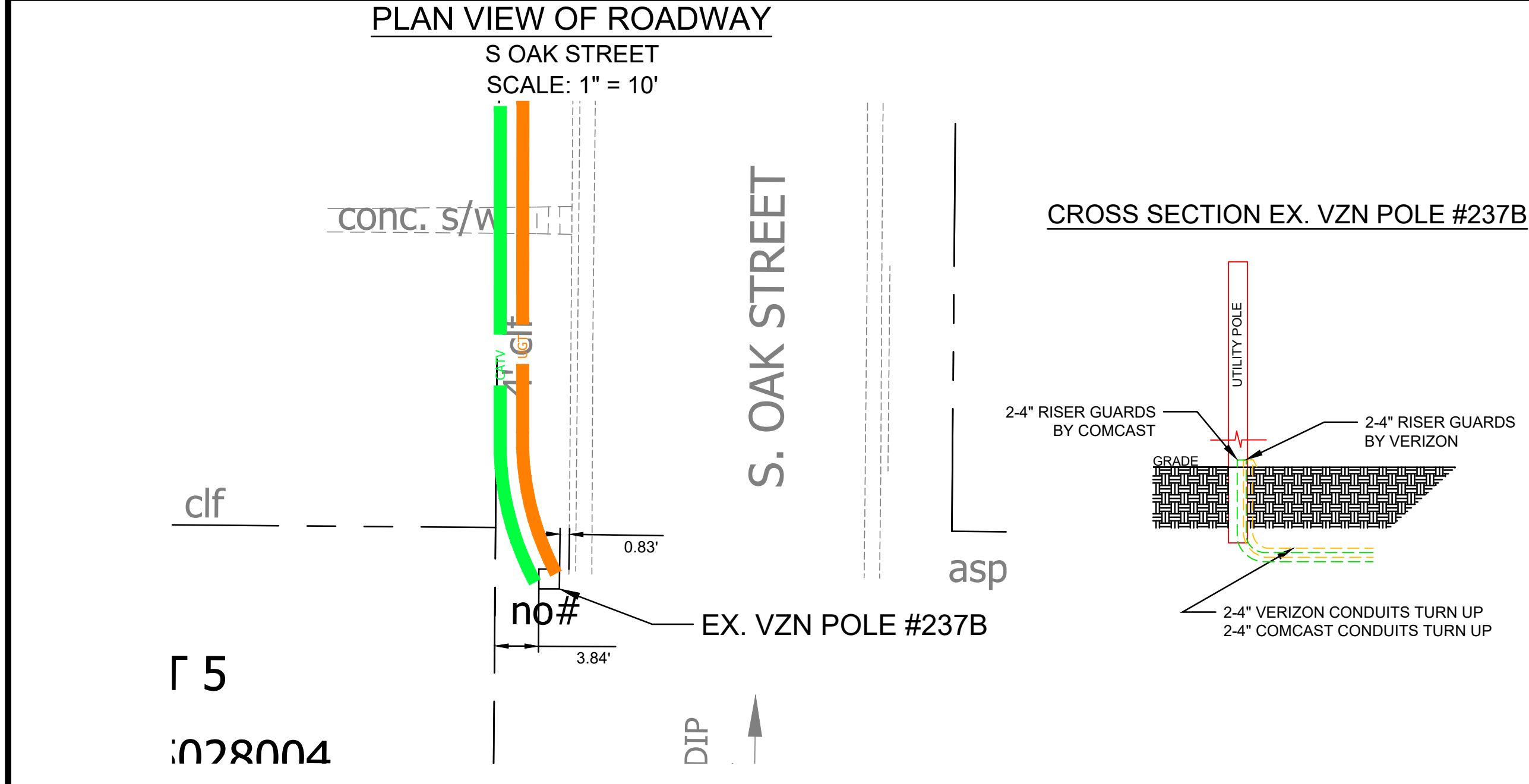
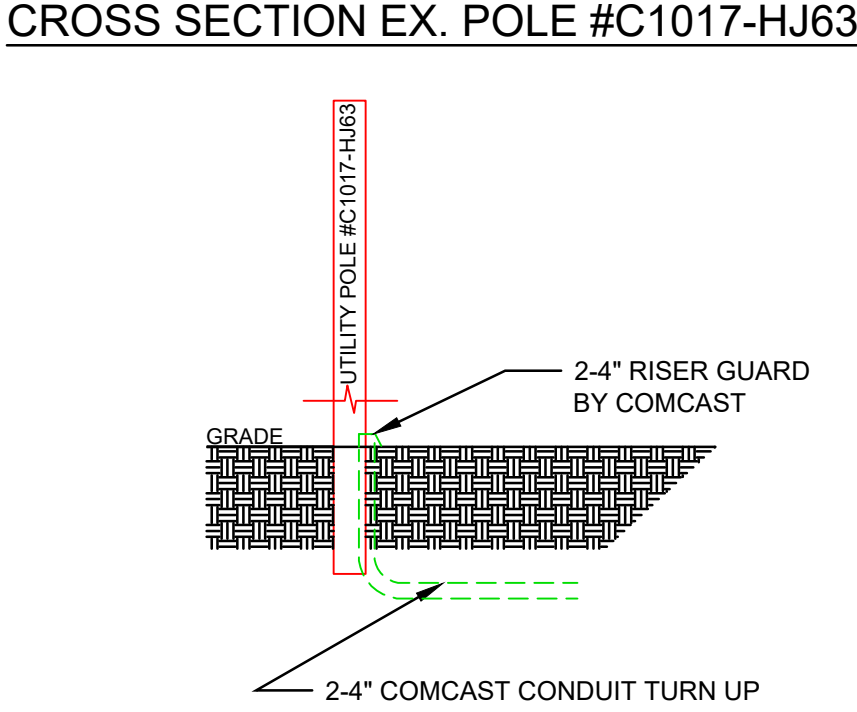
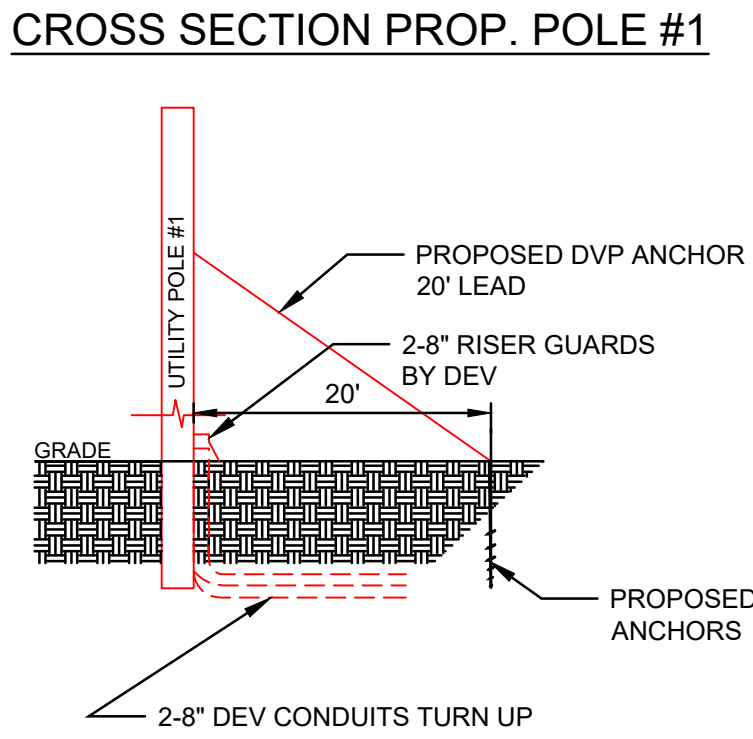
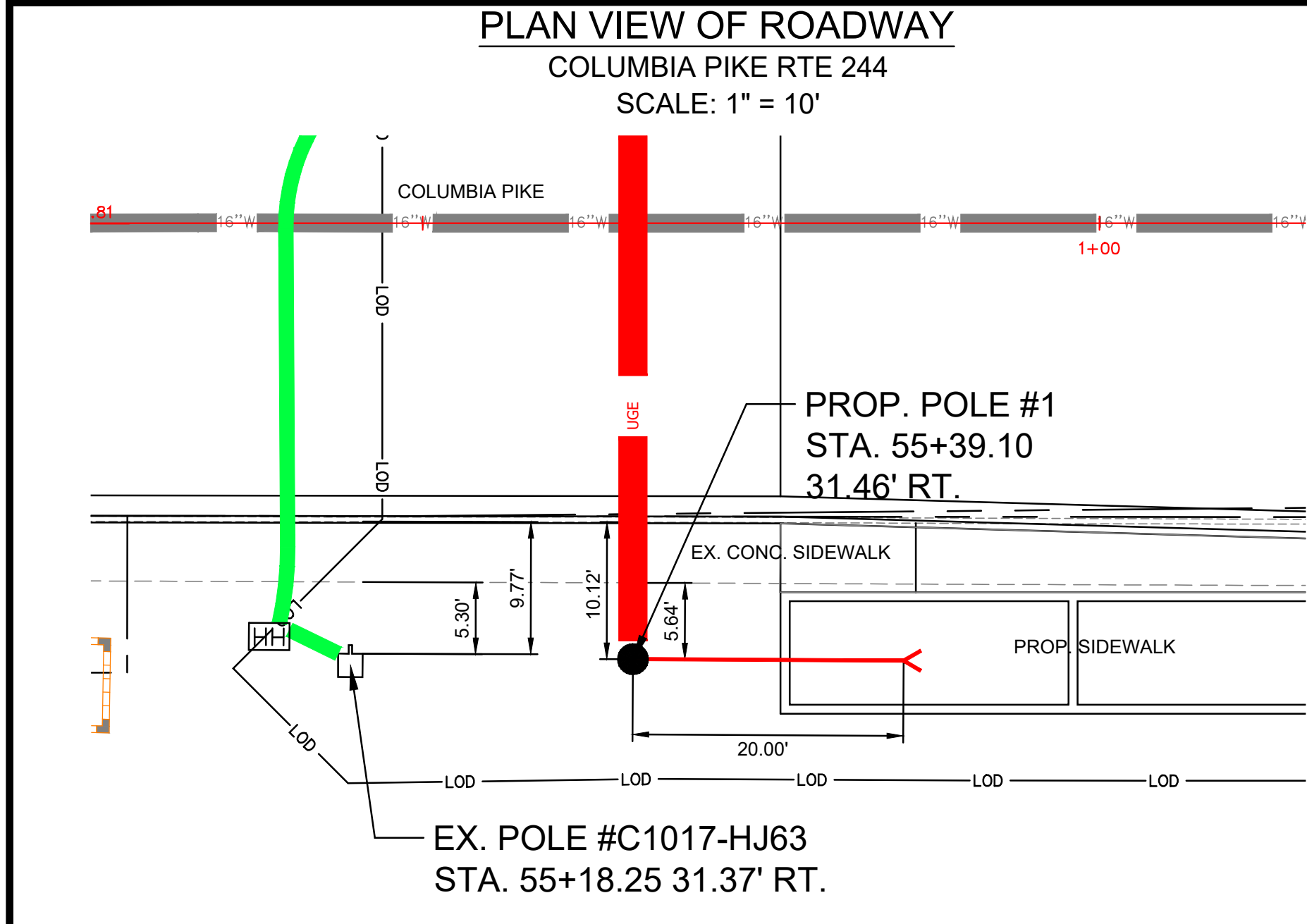
Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:  
  
Filename: 010073-A21-COMCAST PROFILE 1.12.dwg  
Path:  
Plotted: October 26, 2021  
Plotted by: ccorcoran

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

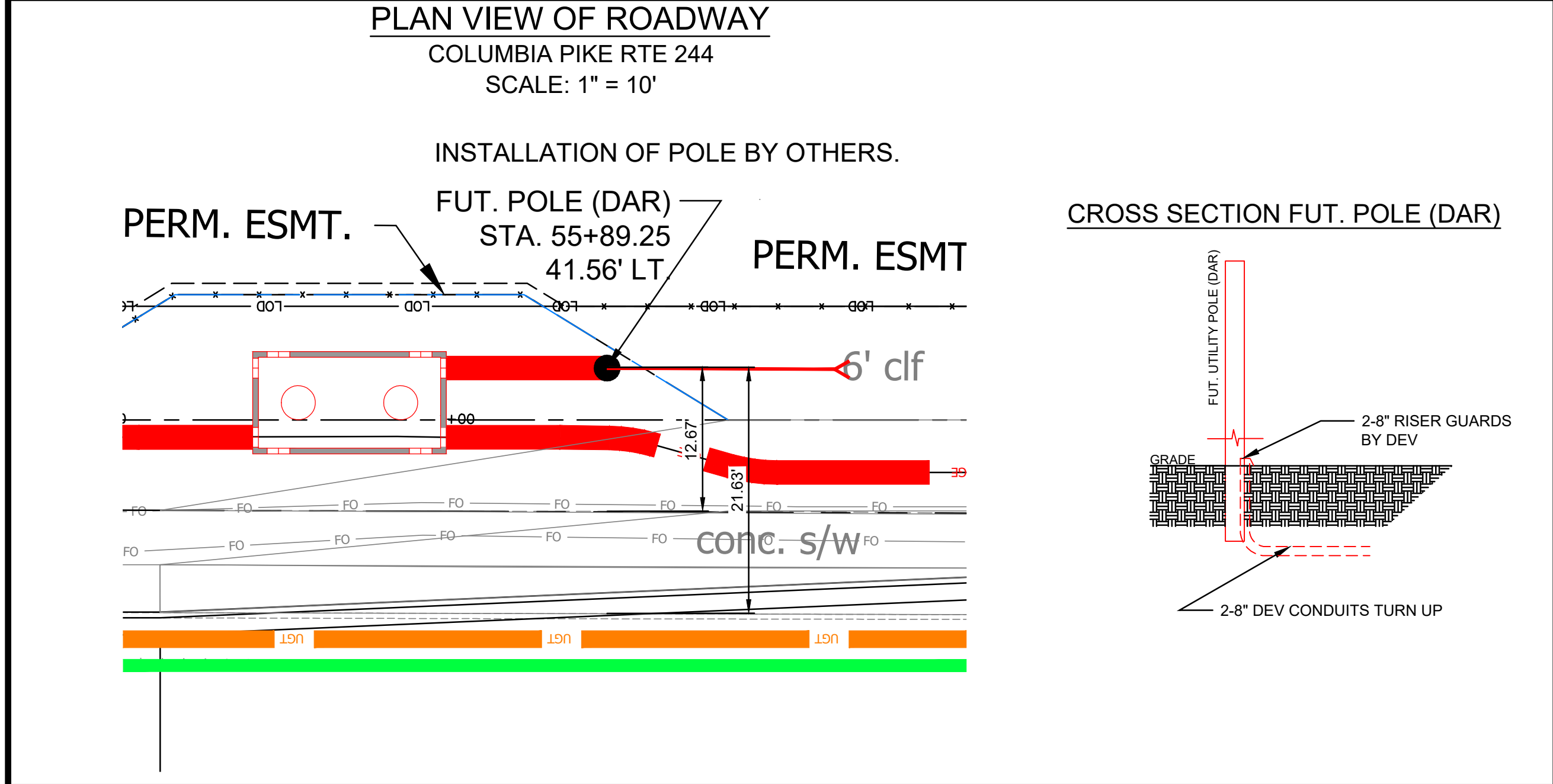
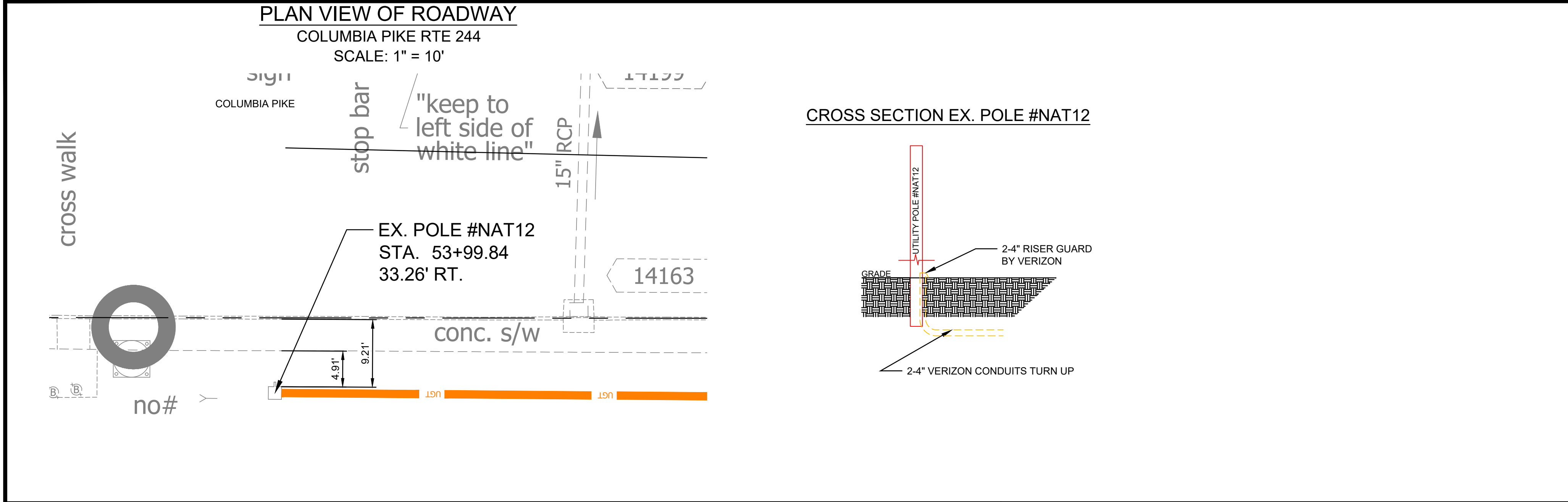
COMCAST PROFILES  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: A21.12 of A21.14









ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
POLE TURN UP DETAILS COLUMBIA PIKE - ROUTE 244 MULTIMODAL STREET IMPROVEMENTS SEGMENT A	
SCALE: HOR. 1" = 25'	SHEET: A21.14 of A21.14

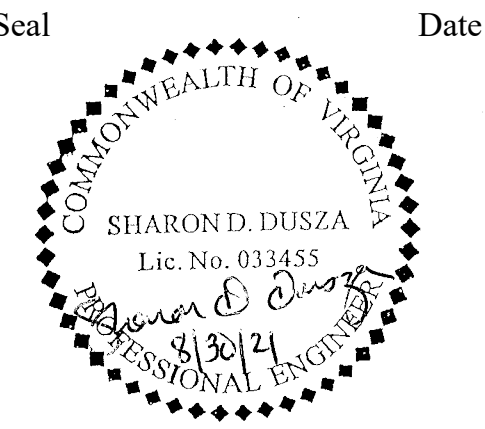


**ARLINGTON**  
VIRGINIA

DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**rda**  
**Rinker Design**  
**Associates, P.C.**  
11100 Endeavor Court, Suite 200, Manassas VA, 20109  
www.rdacivil.com  
Telephone: (703) 368-7373



Seal \_\_\_\_\_ Date \_\_\_\_\_

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: BMY  
Drawn: BMY, KCC  
Checked: SDD  
Miss Utility Transmittal #:

Filename: 010073-A21-POLE TURN UP DETAILS.d  
Path: M:\work\10000\10004-002 Columbia Pike at Phases\01pole\Segment A  
Plotted: September 01, 2021  
Plotted by: ccorcoran



DYNAMIC MESSAGE SIGN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITY LATERALS. MISS UTILITY IS NOT RESPONSIBLE FOR MARKING UTILITY LATERALS.
2. CONDUIT ROUTES SHOWN ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL ROUTING OF CONDUIT SHALL CONFORM TO FIELD CONDITIONS. THE CONTRACTOR SHALL MARK CONDUIT ROUTE FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
3. WHEN/IF HAND DIGGING (OR OTHER MANUAL TRENCHING METHOD) OF A NEW TRENCH IS REQUIRED DUE TO CONSTRAINTS IN THE FIELD, SUCH AS CROSSING UNDER PAVED DRAINAGE FLUMES OR AVOIDING EXISTING UTILITIES, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR HAND DIGGING OR REPAIR OF PAVEMENT OR OTHER ASSETS DAMAGED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL AVOID OR RESET EXISTING TRAFFIC CONTROL DEVICES, INCLUDING ALL SIGNS AND DELINEATORS, WHOSE LOCATION CONFLICTS WITH THE PLACEMENT OF ANY SYSTEM COMPONENT, OR ANY TRENCH. RESET LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, MARKED IN THE FIELD, AND APPROVED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL AREAS WHICH ARE DISTURBED (AS A RESULT OF CONSTRUCTION AND INSTALLATION OF ELEMENTS IN THIS CONTRACT) TO THEIR ORIGINAL STATE WITHIN 15 DAYS OF COMPLETION OF WORK IN THAT AREA, OR AS DIRECTED BY THE ENGINEER. ALL COSTS FOR THIS ITEM SHALL BE INCLUDED IN THE BID PRICE FOR THE COMPONENT OR UNIT INSTALLED. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
6. ALL NEW JUNCTION BOXES AND MANHOLES SHALL BE OPEN BOTTOM, PER VDOT STANDARD VDOT STANDARD JB-S3 AND ENGINEER APPROVED.
7. CABLES IN JUNCTION BOXES, MANHOLES, AND EQUIPMENT ENCLOSURES SHALL BE NEATLY ARRANGED AND LACED WITH APPROVED CABLE TIES, IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICE.
8. ALL COMMUNICATIONS CABLES SHALL TERMINATE ON THE TERMINAL BLOCKS IN CONTROL CABINETS, CONTROL CONSOLES, CONTROL PANELS, ETC. WITH INSULATED LUGS AND BE PROPERLY LABELED, CONFORMING TO WIRING DIAGRAMS FURNISHED BY THE CONTRACTOR. WHERE POWER CONDUCTOR CABLES ARE TERMINATED IN EQUIPMENT ENCLOSURES, THEY SHALL BE TESTED AND CAPPED.
9. ALL PATCH, ETHERNET, JUMPER CABLES AND SERIAL CABLING INSIDE OF CABINET SHALL BE A MINIMUM OF 3FT IN LENGTH OR THE LENGTH REQUIRED TO COMPLETE EQUIPMENT CONNECTIONS; WHICHEVER IS LONGER.
10. ALL CONDUCTORS, WIRES, OPTICAL FIBERS, ETC. SHALL BE COLOR CODED AS REQUIRED IN THE SPECIFICATIONS. CERTIFIED CONDUCTOR TEST REPORTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
11. ALL METAL CONDUIT SYSTEMS SHALL BE BONDED. IN NON-METALLIC CONDUIT SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL ONE COPPER EQUIPMENT GROUNDING CONDUCTOR OF EQUAL SIZE OF UNGROUNDED CONDUCTORS WITHIN CONDUIT, IN ORDER TO MAINTAIN A BONDED SYSTEM IN ACCORDANCE WITH THE NEC AND VDOT SPECIFICATIONS. THE COST OF FURNISHING AND INSTALLING THE BOND SYSTEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH TYPE AND SIZE OF CONDUIT. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
12. CABLES AND CONDUCTORS IN ALL JUNCTION BOXES, MANHOLES, AND EQUIPMENT ENCLOSURES SHALL BE PROVIDED WITH INDIVIDUAL NON-FERROUS TAGS WHICH SHALL BE DIE STAMPED IN ACCORDANCE WITH VDOT SPEC. 700.04(G) AS FOLLOWS:

A. POWER CONDUCTORS SHALL BE IDENTIFIED AS "POWER" WITH PHASE, CIRCUIT, AND SERVICE PANEL NUMBER.

B. COMMUNICATION CABLE SHALL BE IDENTIFIED AS "COMMUNICATION CABLE" WITH CONTROLLER NUMBER.
13. THE CONTRACTOR SHALL PERFORM ALL WORK IN THE VICINITY OF UTILITIES IN ACCORDANCE WITH NATIONAL ELECTRICAL SAFETY CODE (NESC).
14. CONTRACTOR PERSONNEL AND EQUIPMENT SHALL MAINTAIN A MINIMUM DISTANCE OF 10' FROM ALL OVERHEAD POWER LINES PER STATE LAW DURING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY VIRGINIA BEFORE PERFORMING ANY WORK THAT REQUIRES CONTRACTOR PERSONNEL OR EQUIPMENT TO BE WITHIN THE 10' SAFETY ZONE OF OVERHEAD POWER LINES. DOMINION ENERGY VIRGINIA TELEPHONE NUMBER:1-888-667-3000
15. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION WORK AREA PROTECTION MANUAL. DURING CONSTRUCTION THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE VDOT CERTIFIED WORK ZONE TRAFFIC CONTROL PERSONNEL ON SITE.
16. ARLINGTON COUNTY REPRESENTATIVE:

JOSHUA NICHOLAS

PHONE: (703) 228-3861

ADDRESS: 2100 CLARENDON BLVD. SUITE # 900, ARLINGTON VA.
17. SIGN STRUCTURE, FOUNDATION, SUPPORTS, AND MOUNTINGS ARE SCHEMATIC AND FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL DESIGN ALL STRUCTURAL ELEMENTS AND PROVIDE DRAWINGS TO THE ARLINGTON COUNTY PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE DRAWINGS ARE TO BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL OR MECHANICAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA.
18. THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY AND TELEPHONE COMPANY FOR THE PLACEMENT AND INSTALLATION OF ALL NECESSARY UTILITIES.
19. PRIOR TO PLACEMENT OF ALL INFRASTRUCTURE CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER ON ALL EQUIPMENT LOCATIONS.
20. CONTRACTOR IS RESPONSIBLE FOR ALL SOIL BORINGS, AND THE SUBMITTAL OF ALL FOUNDATION DESIGNS TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA.
21. CONTRACTOR SHALL PROVIDE STRUCTURES COMPLETE WITH FOUNDATIONS AND ATTACHMENTS TO DMS
22. MATERIAL USED MAY BE ALUMINUM OR STEEL, BUT MUST BE FULLY COMPATIBLE WITH DMS BODY.
23. THE DESIGN SHALL BE IN ACCORDANCE WITH "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" INCLUDING THE MAXIMUM DEAD LOAD DEFLECTION CRITERIA. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE DESIGN WIND SPEED.
24. THE STRUCTURE SHALL BE DESIGNED, FABRICATED AND CONSTRUCTED EXPRESSLY TO SUPPORT, AND BE COMPATIBLE WITH THE DYNAMIC MESSAGE SIGN DESCRIBED IN THE SPECIFICATIONS.
25. THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS TO THE ARLINGTON COUNTY PROJECT ENGINEER FOR ALL ITEMS ASSOCIATED WITH THE MANUFACTURE, CONSTRUCTION AND INSTALLATION OF THE STRUCTURE, ATTACHMENTS AND FOUNDATION. THE FIRST PAGE OF EACH SET OF DESIGN CALCULATIONS AND EACH PAGE OF THE SHOP DRAWINGS SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA.
26. THE CONTRACTOR SHALL VERIFY DIMENSIONS OF THE POLE AND MAST ARM ON THE BASIS OF THE EXISTING FIELD CONDITIONS PRIOR TO RELOCATION.
27. MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ARLINGTON COUNTY PROJECT ENGINEER FOR APPROVAL 30 DAYS PRIOR TO THE STRUCTURE ERECTION.
28. REFER TO INDIVIDUAL DMS LOCATION SHEETS FOR SIGN LOCATIONS.
29. CONTRACTOR TO COORDINATE WITH ELECTRIC UTILITY COMPANY TO INSTALL POWER SUPPLY ON CABINET.
30. THE DMS HOUSING, POLE, AND CABINET SHALL BE COATED BLACK PER CURRENT COUNTY SPECIFICATIONS.

DYNAMIC MESSAGE SIGN PLAN SHEET LEGEND

- PROPOSED CONDUIT

■

PROPOSED JUNCTION BOX

⊠

PROPOSED CONTROLLER CABINET

□

PROPOSED MESSAGE SIGN STRUCTURE

⌚

TELEPHONE DROP CABLE FOR DIAL-UP LINK TO TOC

2016 ROAD & BRIDGE STANDARDS

JB-S1, S2, S3, S4

CLASS A3 CONCRETE COLLAR

NON-SKID SURFACE

VDOT ELEC

LIFT RING OR SLOT

COVER DETAIL (JB-S1, S2, AND S3)

TOP VIEW (COVER REMOVED) (JB-S1, S2, AND S3)

GROUND LINE

COMPACTED SOIL AROUND ALL SIDES OF BOX

LEVEL AND TAMPED NO. 68, NO. 78, OR NO. 8 AGGREGATE PLACED UNDER ENTIRE EXCAVATED AREA. AGGREGATE MATERIAL SHALL BE IN PLACE PRIOR TO INSTALLING THE JUNCTION BOX.

GROUNDING ELECTRODE

OPEN BOTTOM

SECTION VIEW (JB-S1, S2, AND S3)

J-HOOK WIRE SUPPORT 6" BELOW TOP (SEE NOTE 1)

NUT

CONDUIT ENTRANCE (SEE NOTE 6)

STANDARD	DIMENSIONS	
	A	B
JB-S1	15"	24"
JB-S2	17"	30"
JB-S3	24"	36"
JB-S4	48"	48"

SECTION A-A (JB-S1, S2, AND S3)

NOTES:

  1. JUNCTION BOXES SHALL HAVE A STRAIGHT OR FLARED INSIDE WALL DESIGN. MATERIALS SHALL CONFORM TO SECTION 238 OF THE ROAD & BRIDGE SPECIFICATIONS.
  2. CONDUIT ENTRANCES SHALL BE LOCATED AS SHOWN IN THE CONTRACT DOCUMENTS. CONDUITS SHALL EXTEND 2" MIN TO 3" MAX INTO THE INSIDE WALL OF THE JUNCTION BOX.
  3. EACH COVER SECTION SHALL HAVE A NON-SKID SURFACE WITH LETTERS CAST IN THE DEPRESSION ON TOP OR OTHER PRE-APPROVED METHODS THAT DO NOT REQUIRE THE USE OF ADHESIVES. THE LETTERS "VDOT ELEC", "VDOT TRAF", "VDOT COMM", "VDOT FIBER", OR "UTILITY" AS APPLICABLE ARE TO BE 1" WIDE. COVERS USED FOR JUNCTION BOXES INSTALLED THAT WILL BE MAINTAINED BY LOCALITIES SHALL OMIT THE WORD "VDOT".
  4. ALL JUNCTION BOXES SHALL BE INSTALLED WITH A GROUNDING ELECTRODE.
  5. TWO RECESSED 3/8" S.S. HEX HEAD BOLTS ARE REQUIRED FOR EACH JB-S1, S2, AND S3 COVER. FOUR RECESSED 3/8" S.S. HEX HEAD BOLTS ARE REQUIRED FOR EACH JB-S4 COVER.
  6. A MINIMUM 2" DIAMETER CONDUIT ENTRANCE IS REQUIRED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
  7. J-HOOK WIRE SUPPORTS SHALL BE SECURELY ATTACHED TO THE JUNCTION BOX WITH A BOLT AND NUT WITH A NEOPRENE WASHER OR AN EXPANSION FITTING. ONE J-HOOK PER WALL SHALL BE INSTALLED FOR JB-S1, S2, AND S3 BOXES. TWO J-HOOKS PER WALL SHALL BE INSTALLED FOR JB-S4 BOXES.
  8. VOIDS RESULTING FROM ENTRANCE OF CONDUITS INTO JUNCTION BOXES SHALL BE COMPLETELY FILLED WITH AN APPROVED MATERIAL.
  9. CONDUIT STUB-OUTS, WHEN INSTALLED, SHALL EXTEND A MINIMUM OF 6" PAST THE OUTSIDE OF THE JUNCTION BOX.

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

JUNCTION BOX

FOR NON-DELIBERATE TRAFFIC USE

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

08/17

SHEET 1 OF 2

1317.20

2016 ROAD & BRIDGE STANDARDS

DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**Kimley»Horn**  
**Kimley-Horn**  
**and Associates, Inc.**

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
11400 Commerce Park Drive, Suite 400  
Reston, Virginia 20191  
Phone: 703-874-1500  
Fax: 703-874-1500

Seal

Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions Date


Designed: EJD  
Drawn: EJD  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-A22-DMS PLAN & DETAILS.dwg  
Path: S:\N/A\_000\N\110010073\columbia pike multimodal production\110010073 final design of columbia pike segment\segment a1.5.1 - 1794.dwg  
Plotted: October 28, 2021  
Plotted by: Patrick.Husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

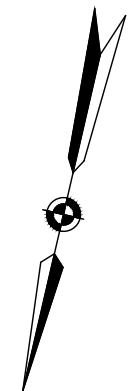
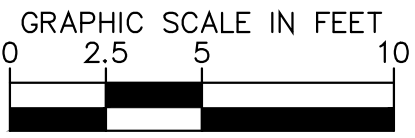
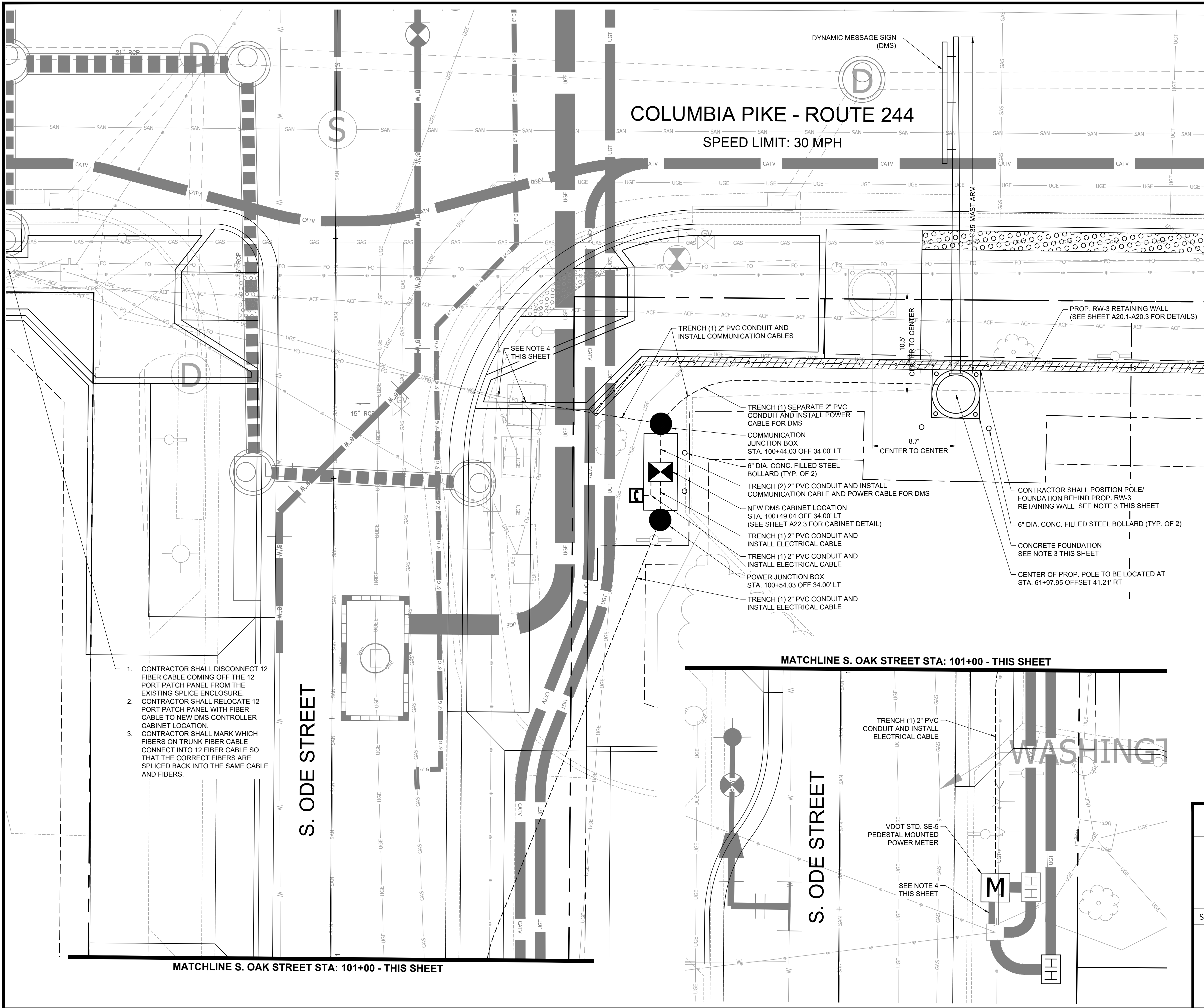
DMS GENERAL NOTES & LEGEND  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE: HOR. N/A VERT. N/A SHEET: A22.1 of A22.3

DEPARTMENT OF  
ENVIRONMENTAL SERVICES

11/23/2021  
APPROVAL DATE





CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD LOCATE ALL EQUIPMENT AND OBTAIN ENGINEERS APPROVAL PRIOR TO CONSTRUCTION.
- UTILITIES SHOWN ON THIS SHEET FOR REFERENCE ONLY. CONTRACTOR TO REFER TO UTILITY PLANS AND EXISTING CONDITIONS FOR ALL DETAILED UTILITY INFORMATION.
- CONTRACTOR TO FIRST INSTALL DMS POLE AND FOUNDATION, THEN CONSTRUCT RETAINING WALL ADJACENT AND INTEGRAL TO POLE FOUNDATION.
- CONTRACTOR TO INSTALL 2" CONDUIT TO EXISTING DOMINION ENERGY VIRGINIA UTILITY POLE AND INSTALL ELECTRICAL SERVICE CABLE TO NEW PEDESTAL METER. SEE DRY UTILITY PLANS FOR UNDERGROUND DUCT BANK DETAILS.
- CONTRACTOR TO REMOVE EXISTING FIBER CABLE FROM EXISTING CONDUIT TO NORTHEAST CORNER OF COLUMBIA PIKE AND S. ODE STREET. CONTRACTOR TO THEN CUT EXISTING CONDUIT TO ALLOW REMOVAL OF EXISTING JUNCTION BOX. AFTER JUNCTION BOX REMOVAL, CONTRACTOR SHALL INSTALL CONDUIT COUPLER AT CUT END OF CONDUIT, AND INSTALL NEW CONDUIT CONNECTION TO PROPOSED COMMUNICATION JUNCTION BOX LOCATION AS SHOWN.
- CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CUTTING OR DISCONNECTING ANY FIBER OPTIC CABLE. CONTRACTOR SHALL NOT PROCEED WITH FIBER CUTTING UNLESS ENGINEER IS ON-SITE.
- CONTRACTOR SHALL PERFORM BI-DIRECTIONAL OTDR TESTING ON THE 12 FIBER CABLE FROM THE PATCH PANEL TO THE TERMINATION POINTS IN THE HUB SITES. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO GAIN ACCESS TO THE NEAREST FIBER TERMINATION POINTS FOR THE FIBER OPTIC CABLE TO PERFORM TESTING.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH BI-DIRECTIONAL OTDR TEST RESULTS IN PDF FORMAT FOR APPROVAL. NO WORK SHALL BE ACCEPTED IF THE FOLLOWING REQUIREMENTS ARE NOT MET:
  - EACH FUSION SPLICE LOSS DOES NOT EXCEED 0.05 DB, BI-DIRECTIONAL AVERAGED.
  - CABLE ATTENUATION MAY NOT EXCEED 0.30 DB/KM AT 1550 NM AND 0.40 DB/KM AT 1310 NM.
  - IF ANY OF THE ABOVE CONDITIONS ARE NOT MET, CONTRACTOR TO TAKE APPROVED CORRECTIVE ACTION, INCLUDING REMAKING SPLICES OR REPLACING COMPLETE SEGMENTS OF FIBER OPTIC CABLE. AS REQUIRED, CORRECTIVE ACTION WILL BE AT NO ADDITIONAL COST TO THE COUNTY.
- THE CONTRACTOR SHALL NOT CUT OR DAMAGE EXISTING FIBER OPTIC CABLES OR FIBER OPTIC SPLICE ENCLOSURES. WHEN HANDLING THE EXISTING FIBER OPTIC CABLES, THE CONTRACTOR SHALL PROTECT THE CABLES FROM EXCEEDING THE MINIMUM BEND RADIUS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND COSTS ASSOCIATED WITH DAMAGED FIBER OPTIC CABLES OR SPLICE ENCLOSURES DUE TO CONSTRUCTION ACTIVITIES.
- ALL CABLING AND SPLICE ENCLOSURES IN JUNCTION BOXES SHALL BE NEATLY ARRANGED AND LABELED.



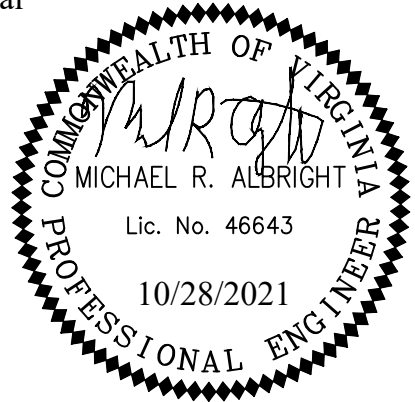
DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**Kimley»Horn**  
Kimley-Horn  
and Associates, Inc.

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
11400 Commerce Park Drive, Suite 400  
Reston, Virginia 20191  
Phone: 703-674-1500  
Fax: 703-674-1500

Seal



Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions Date

Designed: EJD  
Drawn: EJD  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-A22-DMS PLAN & DETAILS.dwg  
Path: Z:\NVA\_RDPN\11000073\_columbia\_pike\_multimodal\_production\work\design\plan\010073-A22-DMS PLAN & DETAILS.dwg  
Plotted: October 28, 2021  
Plotted by: Patrick.Husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DMS PLAN SHEET  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

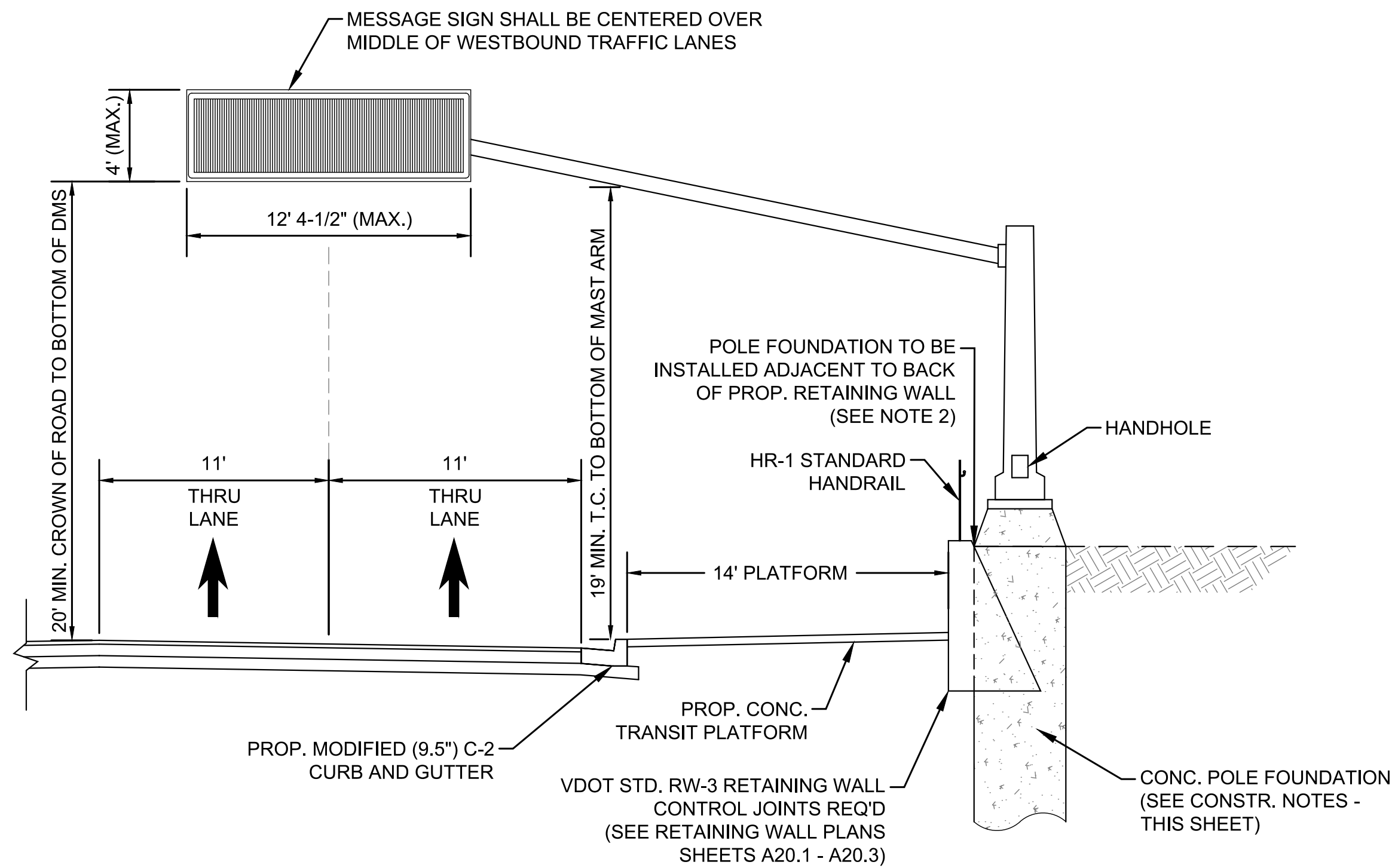
SCALE: HOR. 1" = 5' VERT. N/A SHEET: A22.2 of A22.3



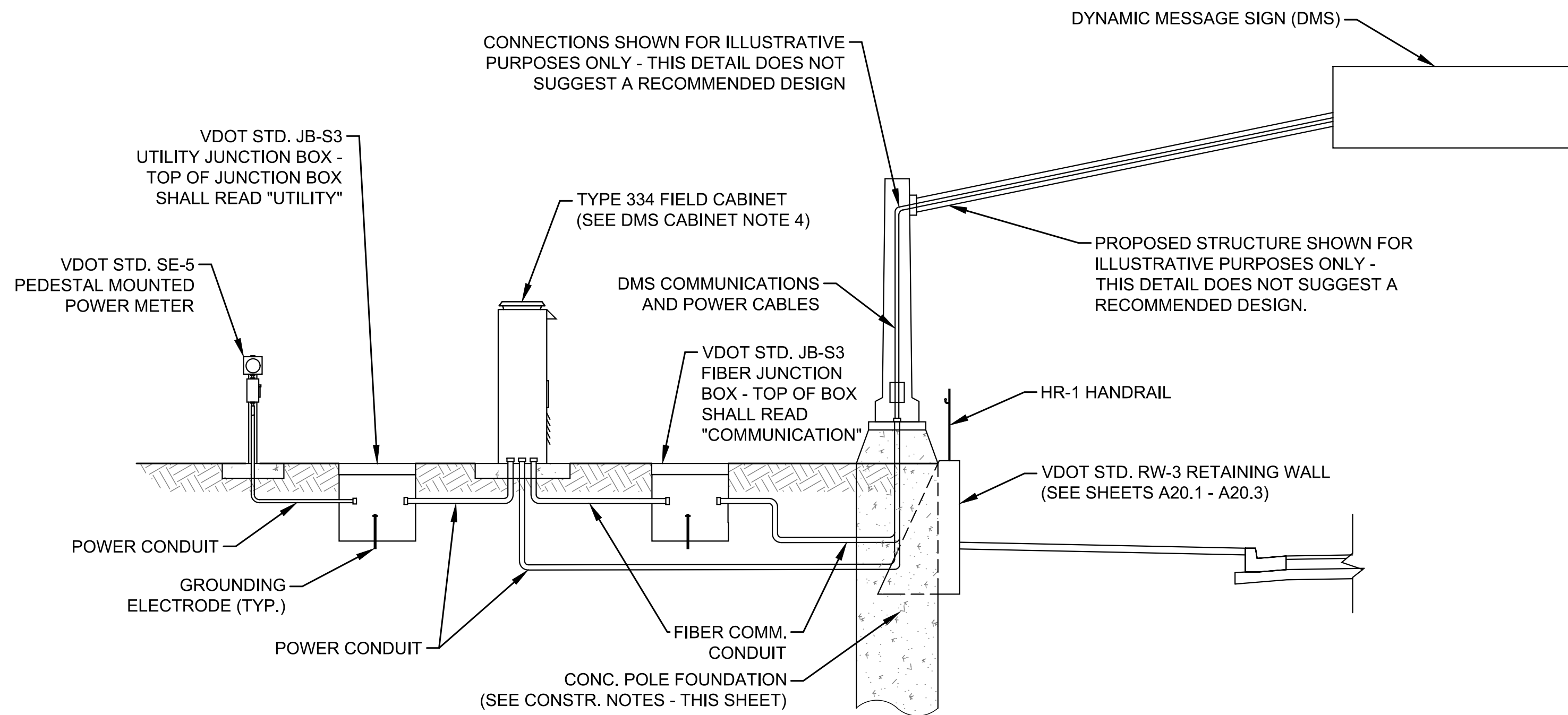
DEPARTMENT OF ENVIRONMENTAL SERVICES

11/23/2021  
APPROVAL DATE





**COLUMBIA PIKE DYNAMIC MESSAGE SIGN (WESTBOUND)**  
STRUCTURAL ELEVATION DETAIL



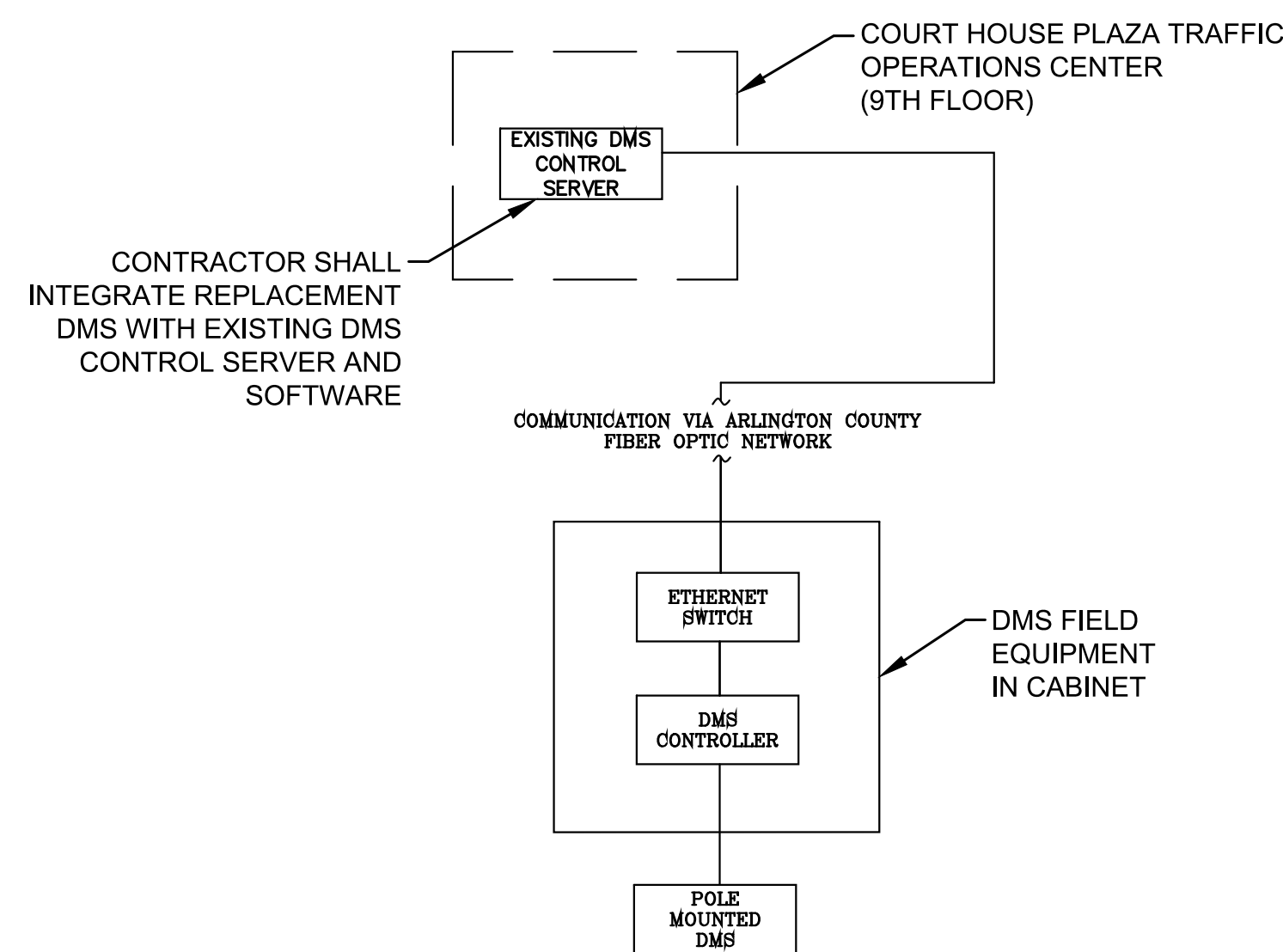
**COLUMBIA PIKE DYNAMIC MESSAGE SIGN (WESTBOUND)**  
EQUIPMENT CONNECTIVITY PROFILE VIEW

**CONSTRUCTION NOTES:**

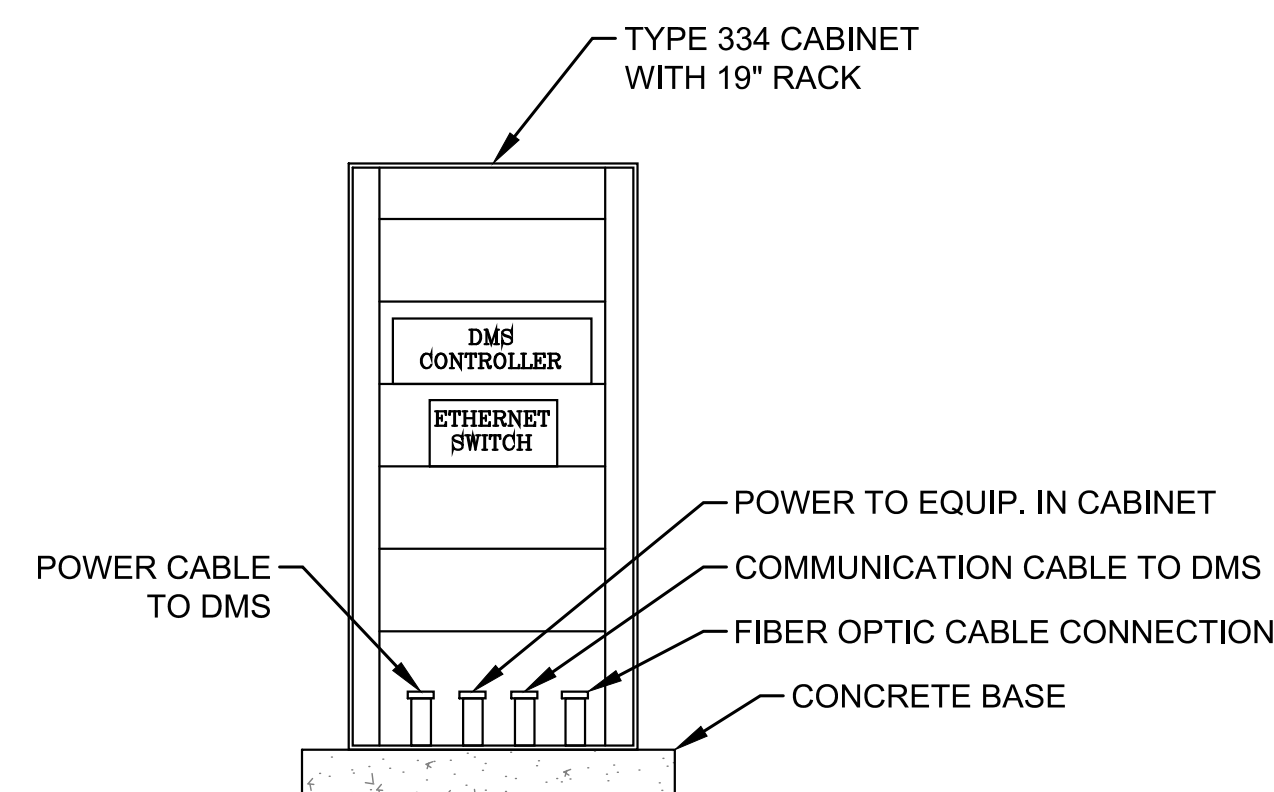
1. CONCRETE FOUNDATION DESIGN FOR DMS SIGN TO BE COMPLETED BY CONTRACTOR. CONTRACTOR TO SUBMIT FOUNDATION DESIGN SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA FOR COUNTY REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL INSTALL DMS POLE FOUNDATION IN ADVANCE OF RETAINING WALL CONSTRUCTION. DMS POLE FOUNDATION TO BE INTEGRAL TO RETAINING WALL TO THE EXTENT REQUIRED TO ACHIEVE STRUCTURAL DESIGN CRITERIA WITH APPROPRIATE FACTORS OF SAFETY IN FOUNDATION LOCATION SHOWN.
3. UPRIGHT POLE SHALL BE INSTALLED SUCH THAT HANDHOLE SHOWN IS ORIENTED AWAY FROM HR-1 HANDRAIL ALONG TOP OF RETAINING WALL.
4. CONTRACTOR SHALL REMOVE ALL COMMUNICATION EQUIPMENT FROM DMS CABINET TO INCLUDE: 12 FIBER PATCH PANEL AND FIBER CABLE, ETHERNET SWITCH, AND JUMPER CABLES, AND RELOCATE TO NEW DMS CABINET LOCATION.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AROUND POLE FOUNDATION AND ALONG BACK OF RETAINING WALL.

**DMS CABINET NOTES:**

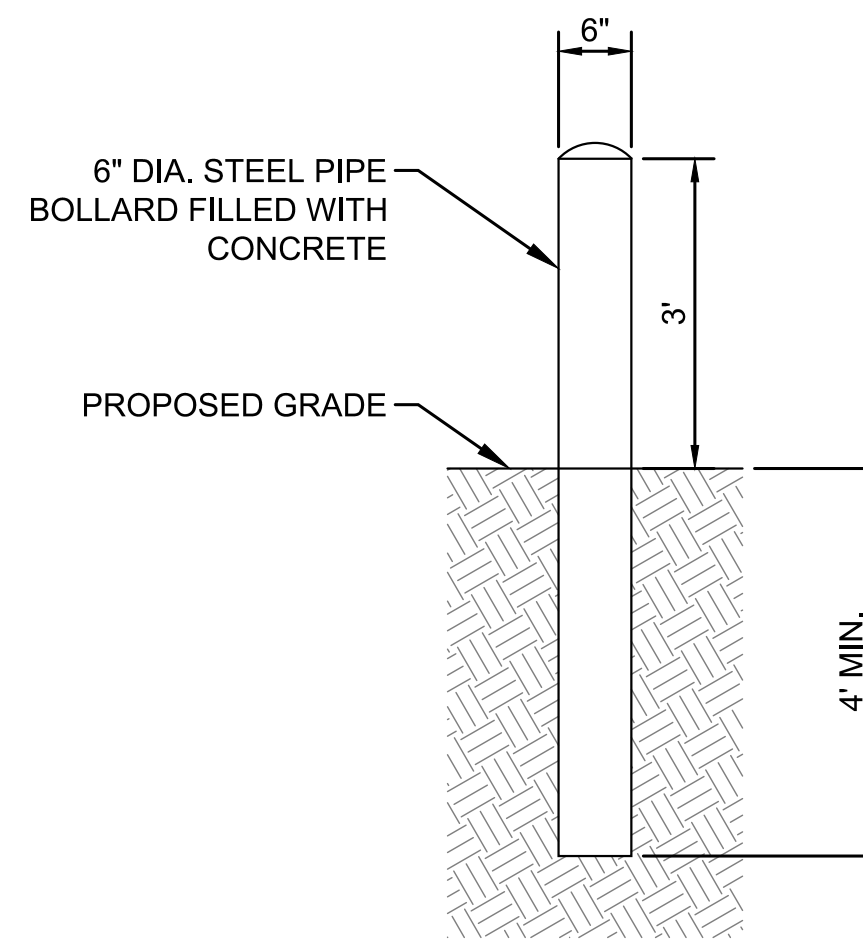
1. ALL ELECTRICAL SPLICING AND CONNECTIONS TO BE PERFORMED BY A CERTIFIED ELECTRICIAN
2. ALL CONDUIT TO ENTER CABINET THROUGH CONCRETE BASE AS SHOWN
3. ALL CABLE WITHIN THE CABINET SHALL BE NEATLY ORGANIZED AND LABELED
4. EXISTING TYPE 334 FIELD CABINET TO BE RELOCATED TO PROPOSED LOCATION AS SHOWN ON SHEET A22.2 DMS PLAN SHEET.



**EQUIPMENT CONNECTIVITY DIAGRAM**



**TYPICAL DMS CABINET DETAIL**



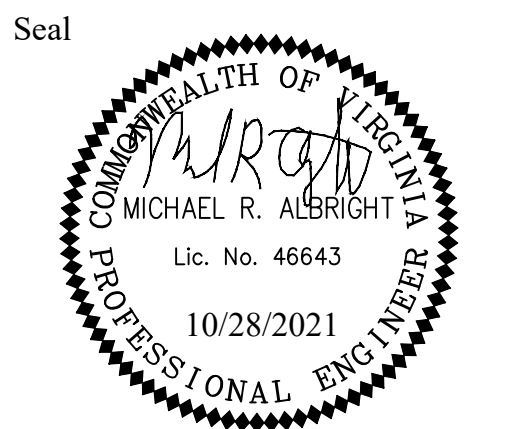
**BOLLARD DETAIL**



DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**Kimley»Horn**  
Kimley-Horn  
and Associates, Inc.  
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
11400 Commerce Park Drive, Suite 400  
Reston, Virginia 20191  
Phone: 703-474-1500  
Fax: 703-474-1390



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: EJD  
Drawn: EJD  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-A22-DMS PLAN & DETAILS.dwg  
Path: Z:\N/A\_R00N\110010073 columbia pike multimodal production\work  
2.0 final design of columbia pike segment a segment a11.1 - 1794  
designed by mra  
Plotted: October 28, 2021  
Plotted by: Patrick.Husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

DMS DETAILS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

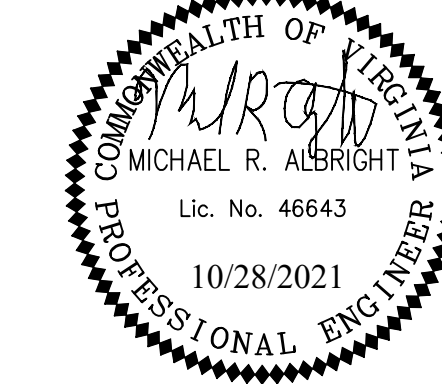
SCALE: HOR. N/A VERT. N/A SHEET: A22.3 of A22.3





Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

**Kimley»»Horn**  
Kimley-Horn  
and Associates, Inc.  
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
11400 Commerce Park Drive, Suite 400  
Reston Virginia 20191  
Phone: 703-674-1300  
Fax: 703-674-1350

Seal  Date

Approvals	Date
-----------	------

Design Team Engineer Supervisor

---

Construction Management Supervisor

---

Water, Sewer, Streets Bureau Chief

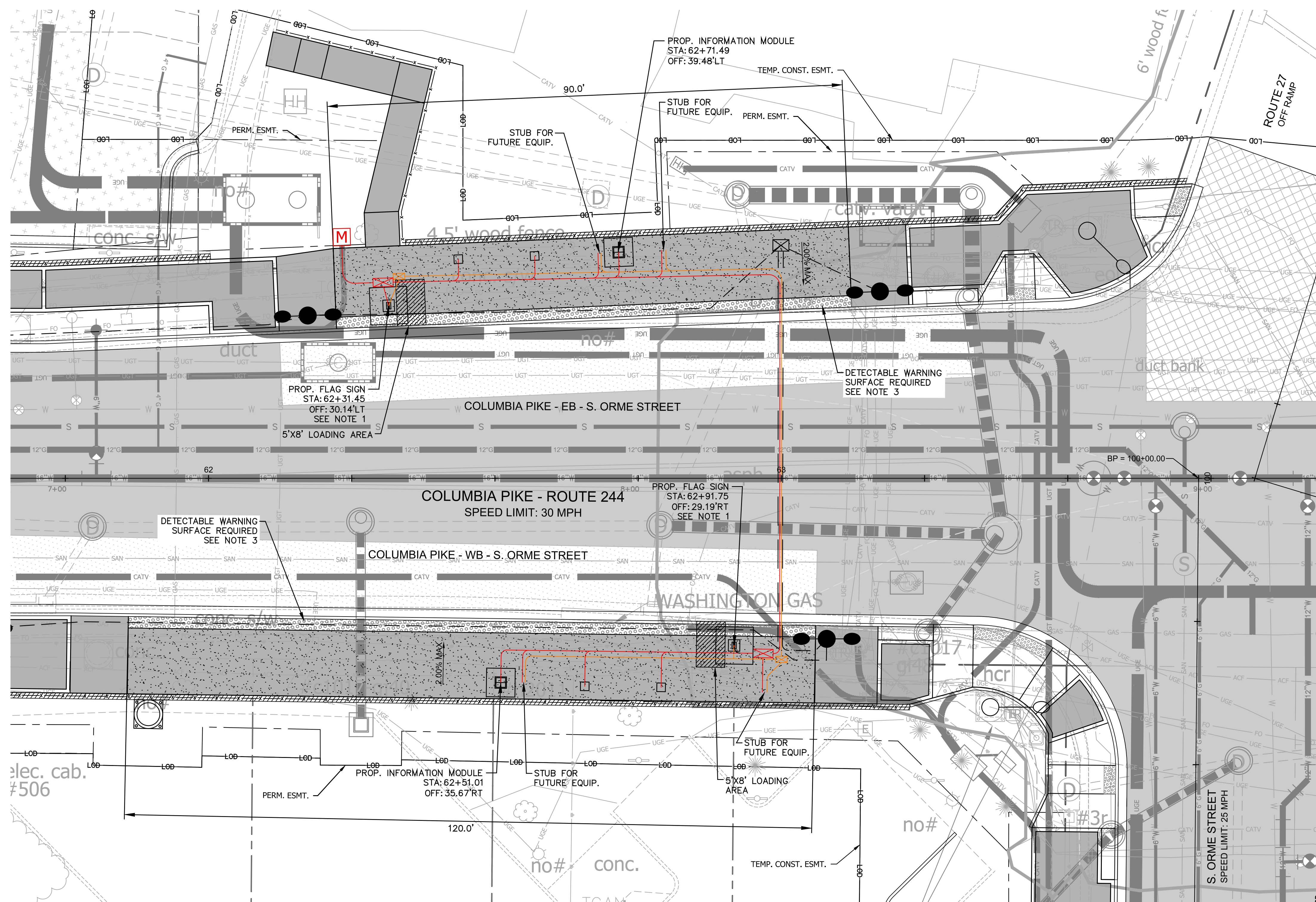
Transportation Director

Project Manager

[illegible]

Designed: EJD  
 Drawn: DB  
 Checked: MRA  
 Miss Utility Transmittal #:







Filename: A Bus Shelter Foundation Plan Sheet.dwg  
 Path: K:\NVA\_RIDWY\110010073\_columbia.pike multimodal\production\task  
 7.5 final design of columbia.pike segment\segment a\7.5.3 - Final  
 Design\PlanSheets\Bus Shelter Foundation Plan Sheets  
 Plotted: October 28, 2021  
 Plotted by: Patrick.Husted

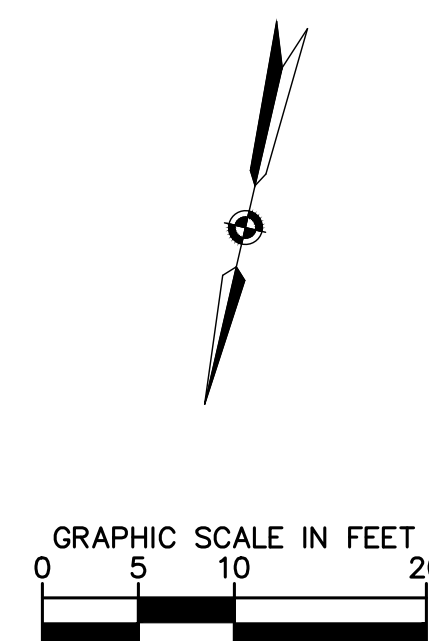


NOTES:

1. THE SCHEMATIC LOCATION OF THE PROPOSED FLAG SIGN IS SHOWN ON THIS PLAN FOR INFORMATION. FINAL LOCATION TO BE VERIFIED AND APPROVED BY THE COUNTY PROJECT OFFICER PRIOR TO INSTALLATION.
2. TRANSIT SHELTER FOUNDATIONS TO BE INSTALLED PER ARLINGTON COUNTY STANDARD R-2.10. FOR THE LOCATION AND SIZE OF THE FOUNDATIONS, CONTRACTOR SHALL CONTACT THE PROJECT OFFICER AND OBTAIN DIRECTION AND APPROVAL PRIOR TO INSTALLATION.
3. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
4. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION OF STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE COUNTY PROJECT OFFICER PRIOR TO INSTALLATION.

LEGEND:

PROP 2" ELEC. CONDUIT	
PROP 2" COMM. CONDUIT	
PROP ELEC. JUNCTION BOX	
PROP COMM. JUNCTION BOX	
ELECTRIC METER	
PROP TRANSIT SHELTER FOUNDATION/PLATFORM	



GRAPHIC SCALE IN FEET

A horizontal line with vertical tick marks at 0, 5, 10, and 20 feet. The segment between 0 and 5 is solid black. The segment between 5 and 10 is white with a black border. The segment between 10 and 20 is solid black.

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TRANSIT SHELTER FOUNDATION PLAN  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT A

SCALE:            HOR. 1" = 10'

SHEET: A23.1 OF #####

DEPARTMENT OF  
ENVIRONMENTAL SERVICES

11/23/2021  
APPROVAL DATE