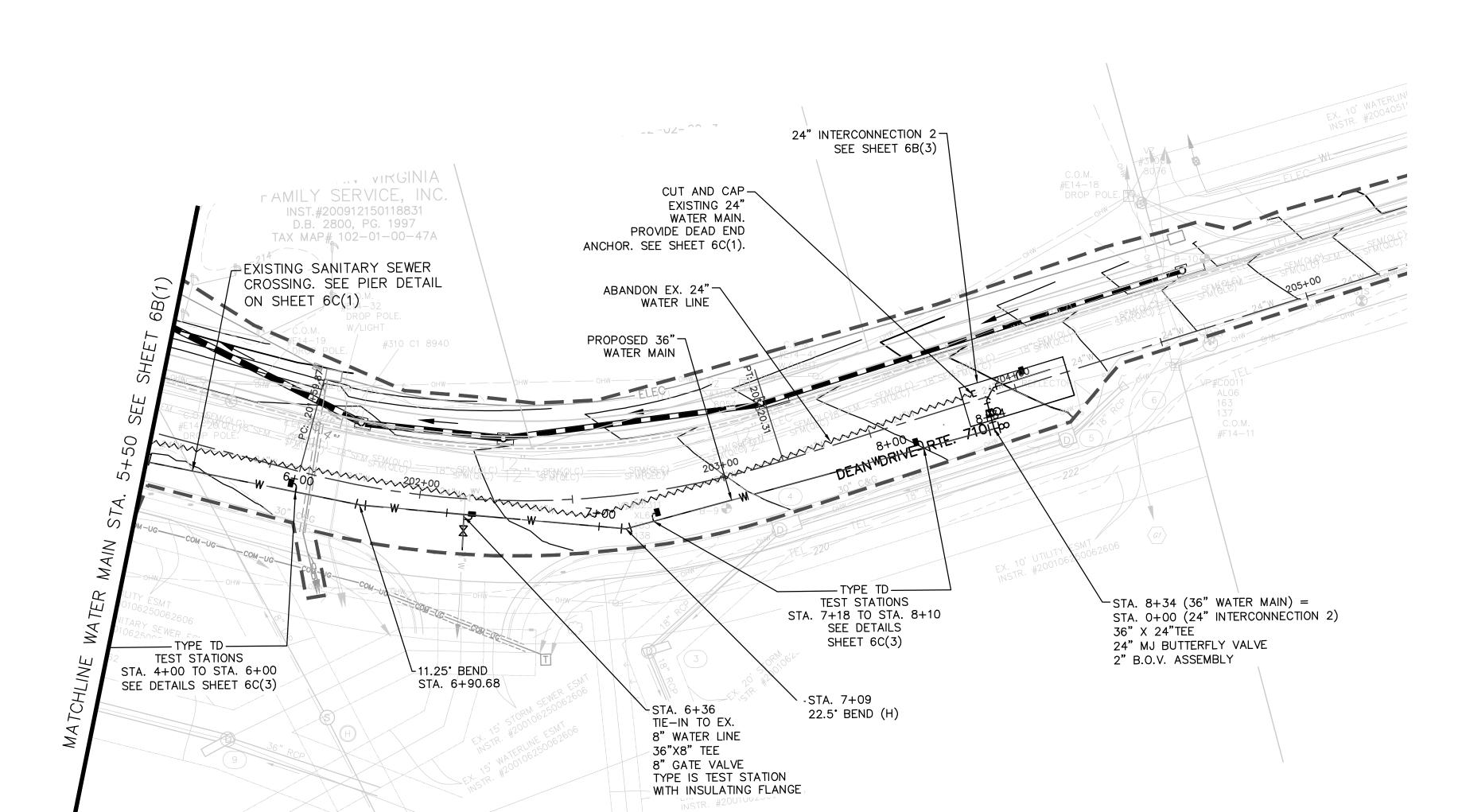


## 36-INCH WATERLINE PLAN AND PROFILE

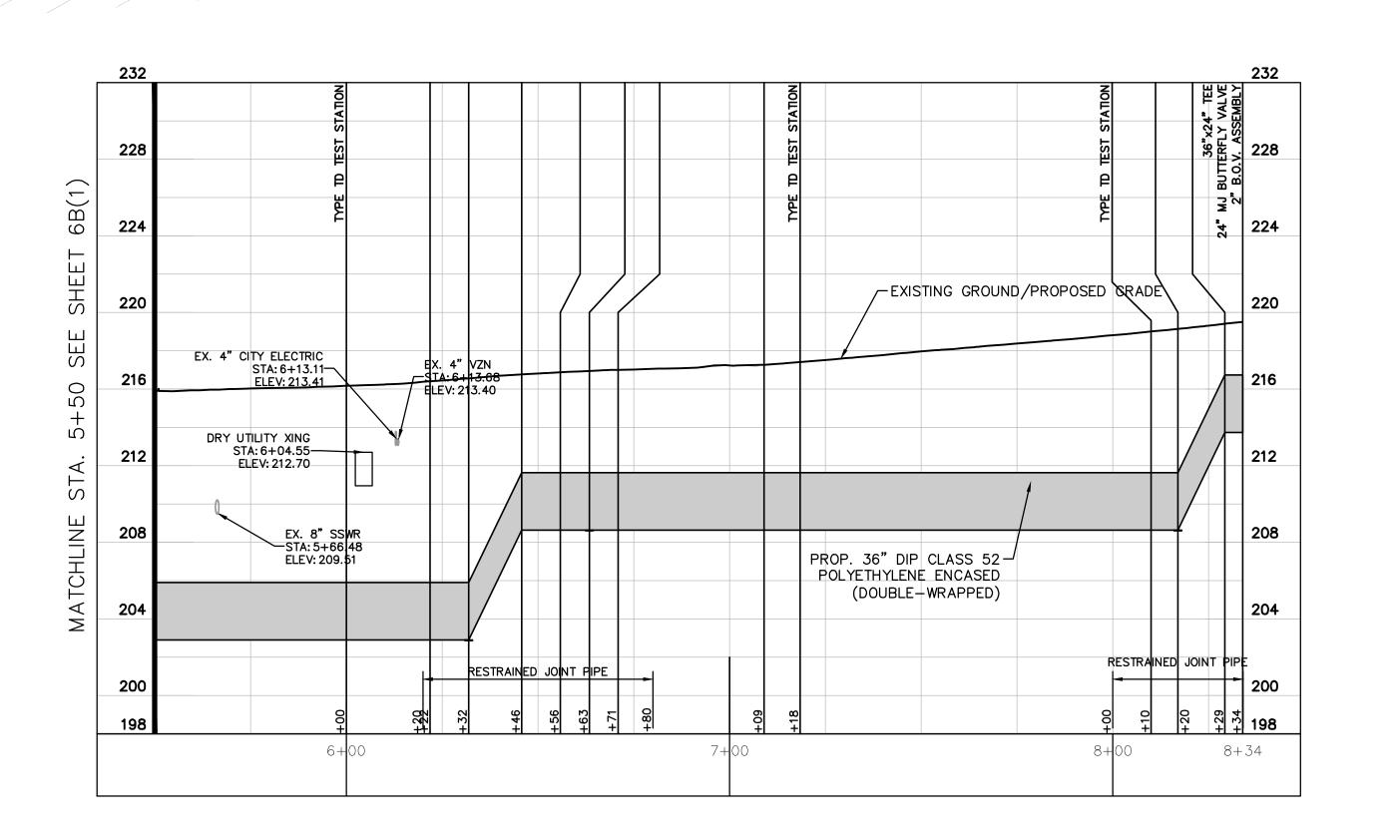


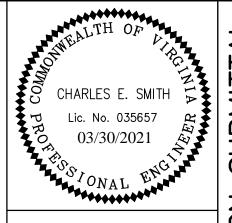
NOTES:

1. PIPES SHALL HAVE CATHODIC PROTECTION. SEE DETAILS ON

CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING PIPES AND UTILITIES PRIOR TO COMMENCEMENT OF WORK.

SHEET 6C(3).





Kimley-Horn Reston, Virginia Roadway Engineer

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DEPARTMENT OF ENGINEERING
8500 PUBLIC WORKS DRIVE
MANASSAS, VIRGINIA 20110

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DRIVE SHEET 6B(2) - 36 IN
WATER LINE PLAN
AND PROFILE
SCALE 1:25

030) 

#### 24" WATER MAIN INTERCONNECTION DETAIL 24" INTERCONNECTION 1 FOSTER DRIVE WEST 8.0' MIN Reston, Virginia Roadway Engineer (A) 24" DIP P.E. X P.E. WATER MAIN , CI-52, GAUGED FULL LENGTH (FIELD CUT) 224 (B) 24" MJ 45 DEGREE BEND (C) 24" RESTRAINING GLAND 220 (D) FAST SET CONCRETE THRUST ANCHOR (SEE DETAIL THIS SHEET) (E) 24" FOSTER ADAPTER (F) 24" MJ LONG SOLID SLEEVE 216 (G) 24" DIP P.E. X P.E. WM, CI-53, GAUGED FULL LENGTH (FIELD CUT) SEE NOTE 1-/ (H) TYPE IS TEST STATION 212 212 ( | ) INSULATED FLANGE KIT (J) 24" STEEL HARNESSED COUPLING 36" X 24" TEE (K) CONCRETE THRUST COLLAR 24" INTERCONNECTION 1 (L) 24" MJ BUTTERFLY VALVE M EXIST. 24" STEEL WATER MAIN STA. 0+00 (24" INTERCONNECTION 1)— = STA. 0+00 (36" WATER MAIN) 0 + 350+00 24" INTERCONNECTION 1 030 000 /20 /20 /20 /20 DEAN DRIVE EAST 232 228 SEE NOTES 2 & 3 224 224 SEE NOTE 1 220 220 0 24" INTERCONNECTION 2 216 216

1. COLLAR MUST BE INSTALLED ON SAME PIPE JOINT AS THE STEEL HARNESSED COUPLING. THRUST COLLAR MUST BE INSTALLED IN ADVANCE OF TIE-IN AND ALLOWED 7 DAYS FOR CONCRETE TO

2. COAT ALL EXPOSED STEEL PIPE AND HARNESSED COUPLING WITH 2 COATS OF COAL TAR EPOXY COATING TO CURE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS PRIOR TO BACKFILL.

3. CONTRACTOR SHALL TEST PIT EXISTING 24" STEEL WATER MAIN TO CONFIRM OUTSIDE DIAMETER AND ROUNDNESS PRIOR TO ORDERING COUPLING. MANUFACTURER SHALL BE: SMITH-BLAIR MODEL 413

ROMAC MODEL 400 OR APPROVED EQUAL.

〔36" X 24" TEE〕

-STA. 0+00 (24" INTERCONNECTION 2) =

STA. 8+34 (36" WATER MAIN)

0+00

212

210

0+00

212

<sup>∞</sup> 210

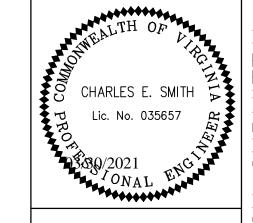
0 + 35

GRAPHIC SCALE IN FEET O 12.5 25 50

030) 

SHEET 6B(3) - 24 INCH
INTERCONNECTION
DETAILS AND PROFILES
SCALESEE GRAPHIC
SCALE

### WATER LINE DETAILS

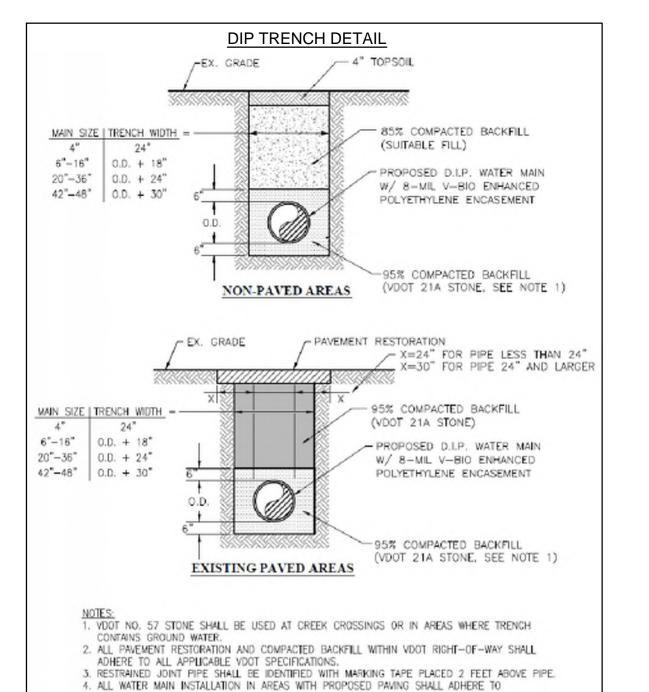


Kimley-Horn Reston, Virginia Roadway Engineer

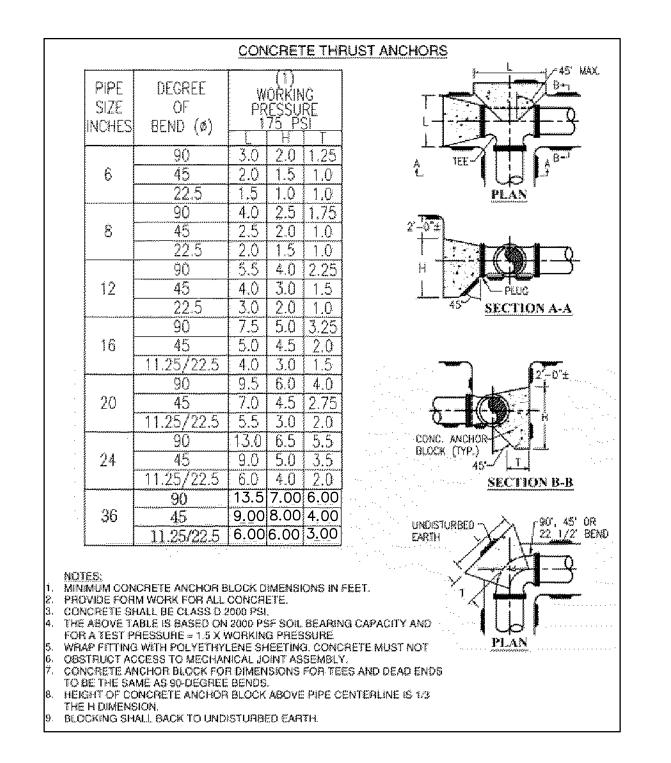
SIGN

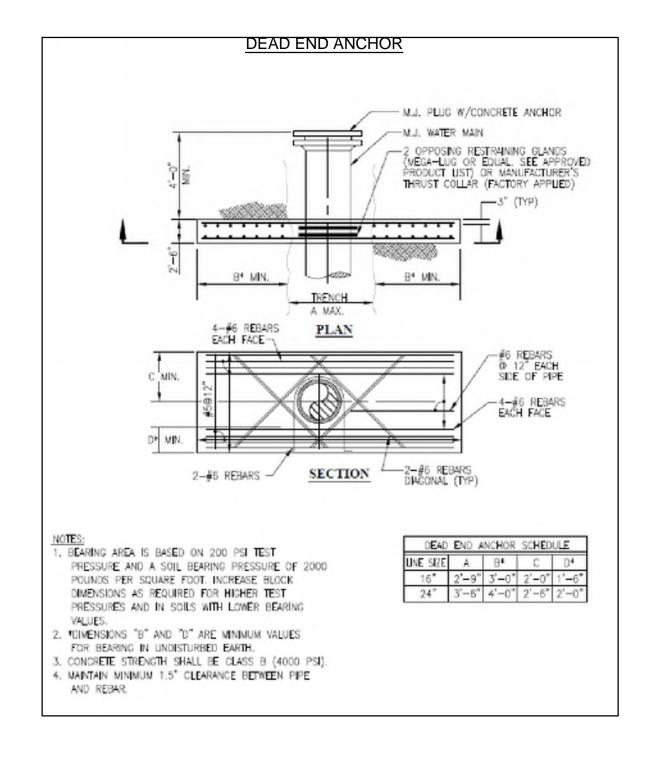
DE

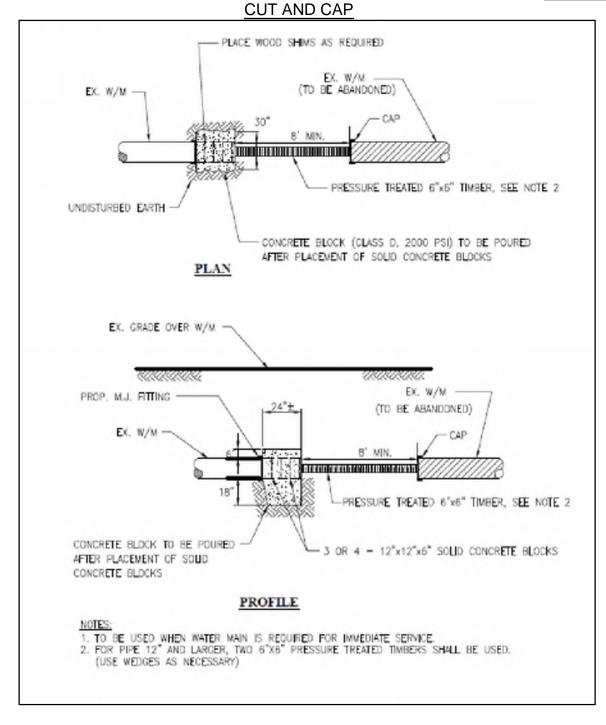
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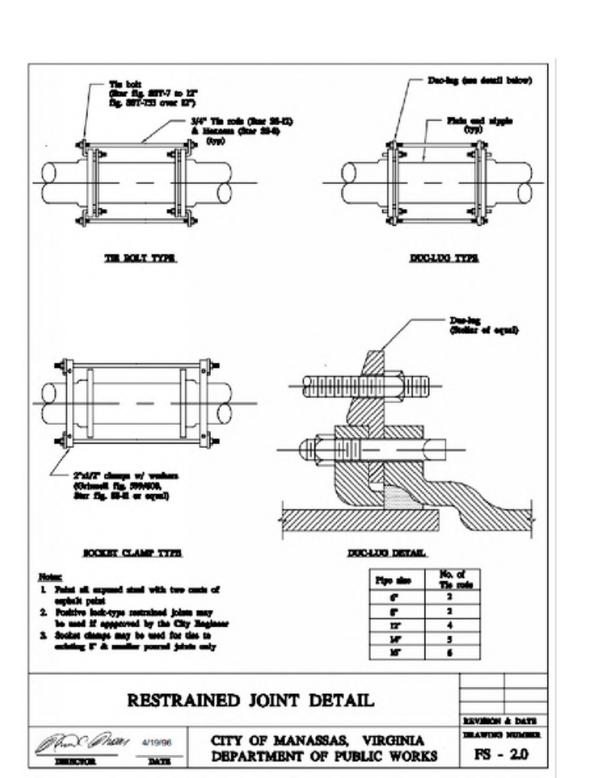


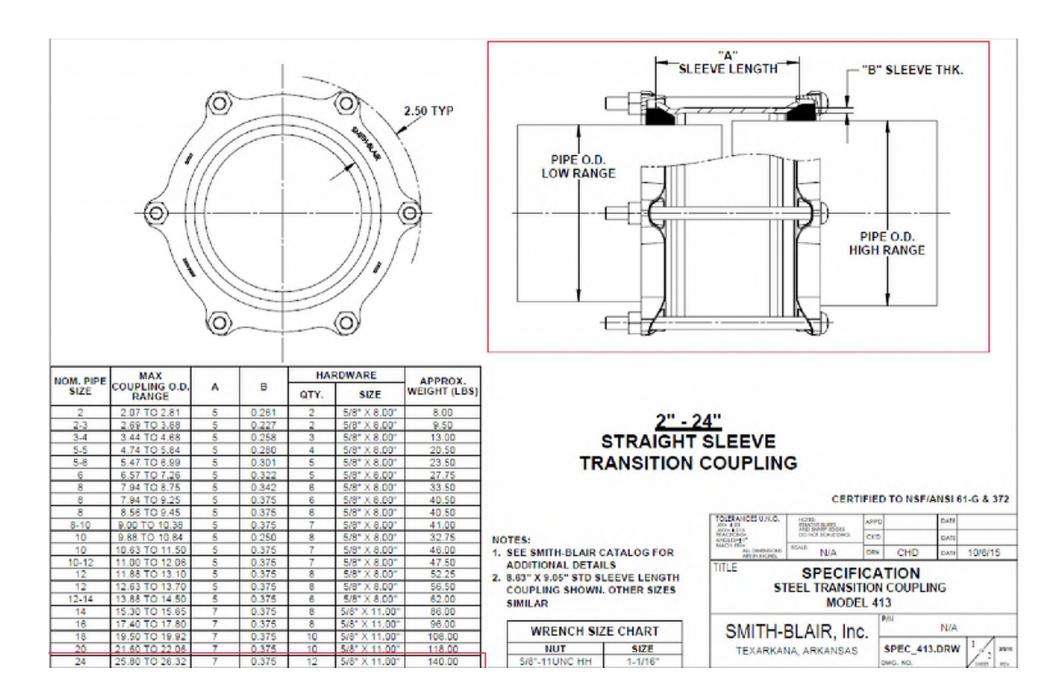
APPROVED DEVELOPMENT PLAN.

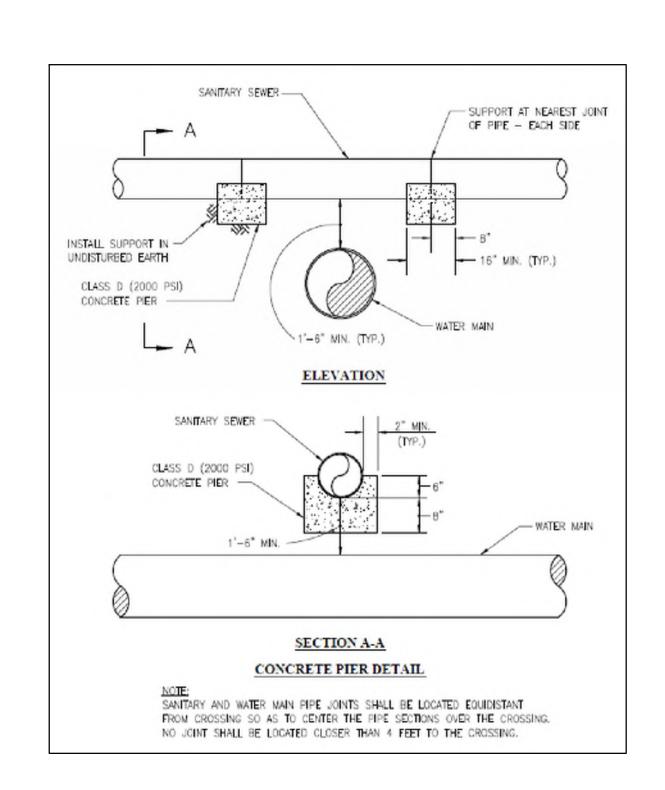












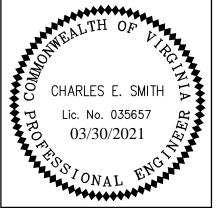
SHEET 6C(1) — WATER LINE DETAILS

30) Ó XTENDE DRIVE

DE

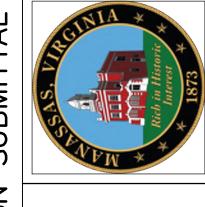
Y OF MANASSAS, VIRGINIA DEPARTMENT OF ENGINEERING 8500 PUBLIC WORKS DRIVE MANASSAS, VIRGINIA 20110

#### WATER LINE DETAILS



Roadway Engineer

— WATER MAIN



SIGN DE

30%

VIRGINIA NEERING DRIVE 20110

0

30)

0

TENDI

SHEET 6C(2) - WATER LINE

1' - 6" Standard fire hydrant FINISH INSTRUCTIONS: UTTERFLY VALVE BOX Reston, Virginia SCALE: N.T.S.

Provide 18" sq. concrete or -

asphalt pad when valve is

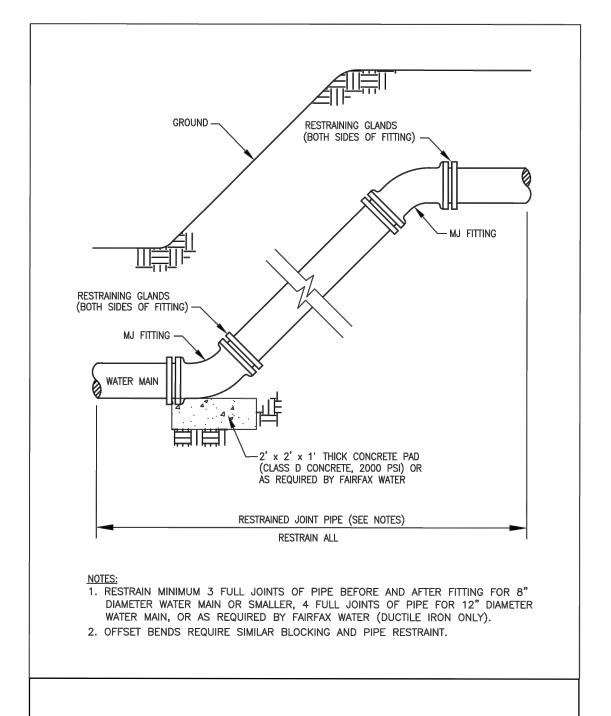
located in unpaved area

Top Piece —

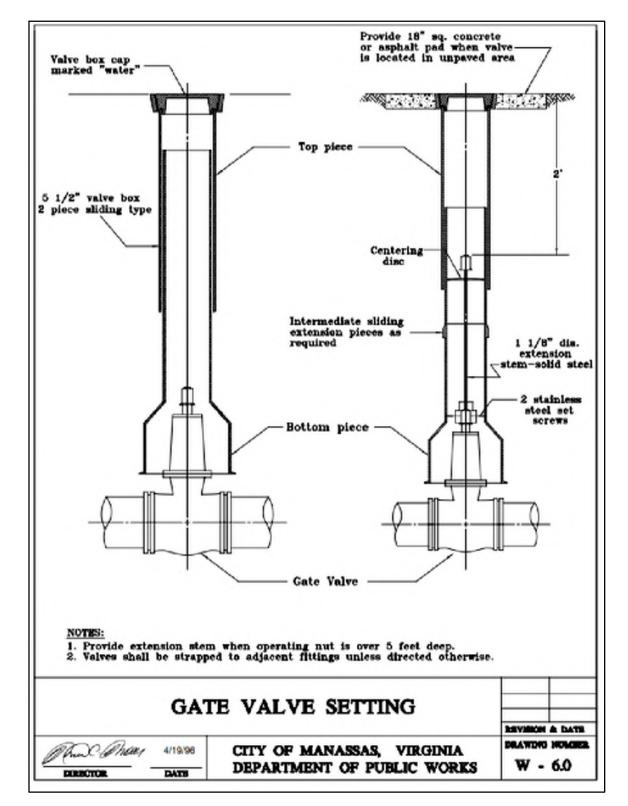
 $1\frac{1}{8}$ " dia. extension

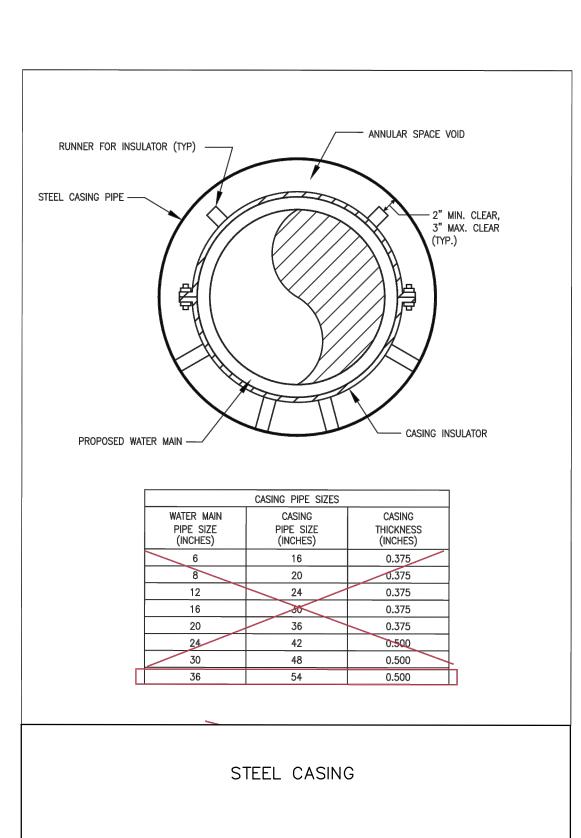
Bottom Piece -

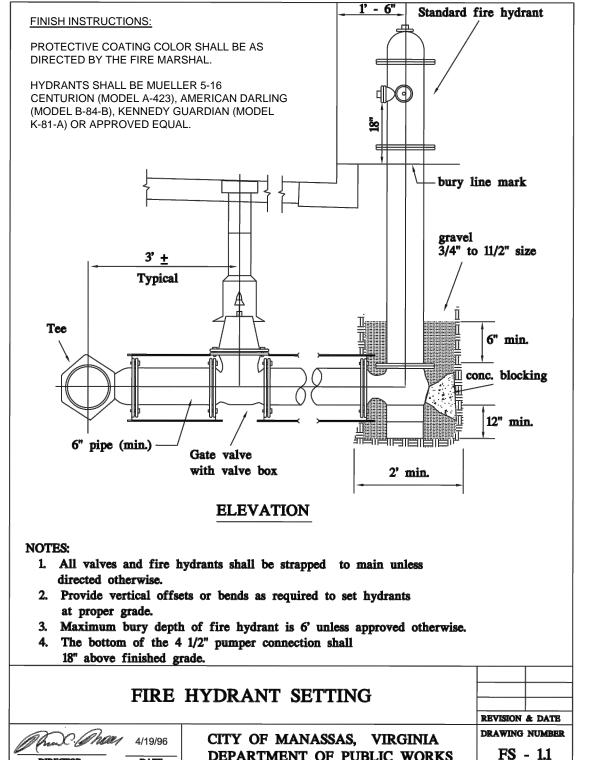
stem-solid steel

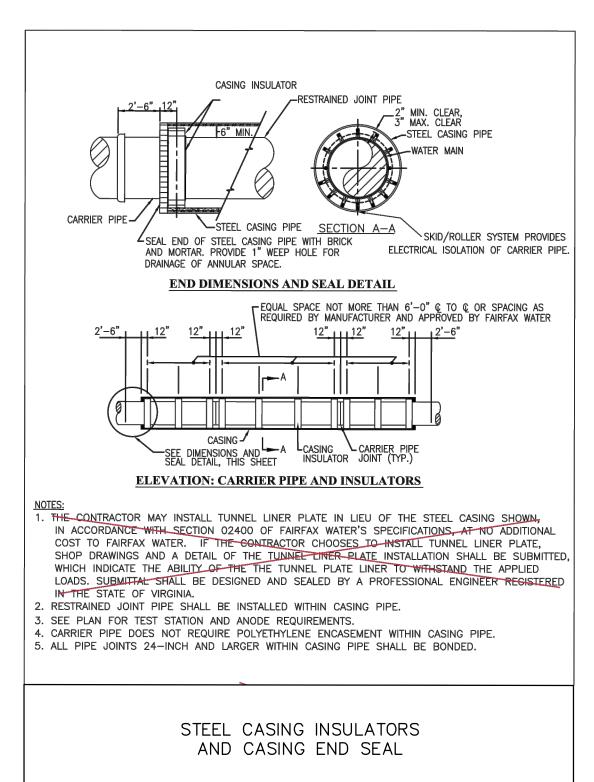


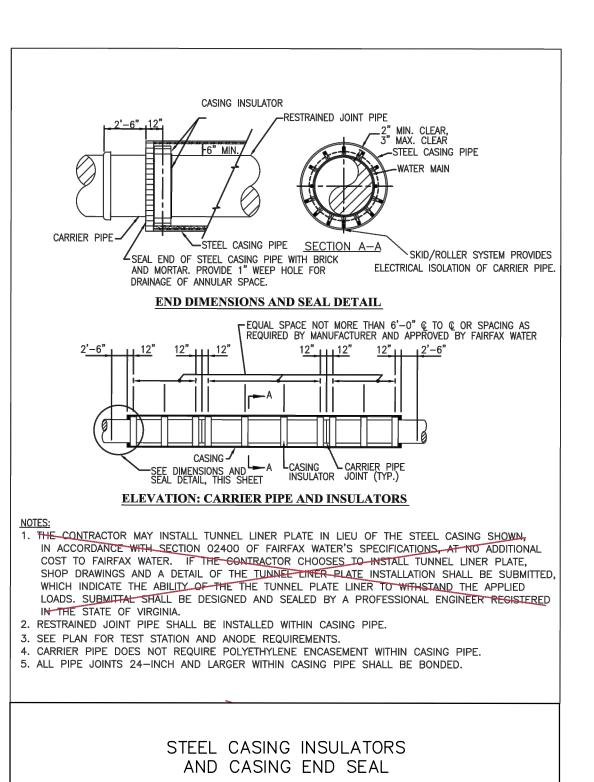


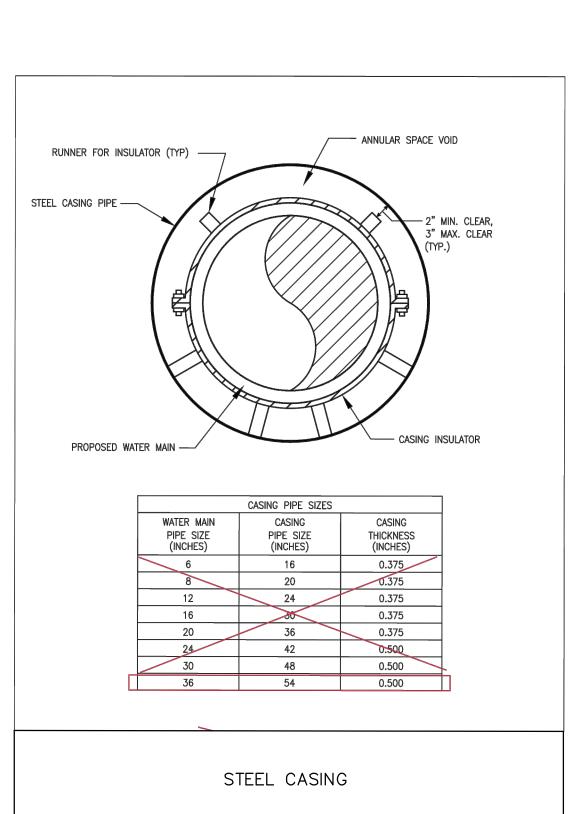


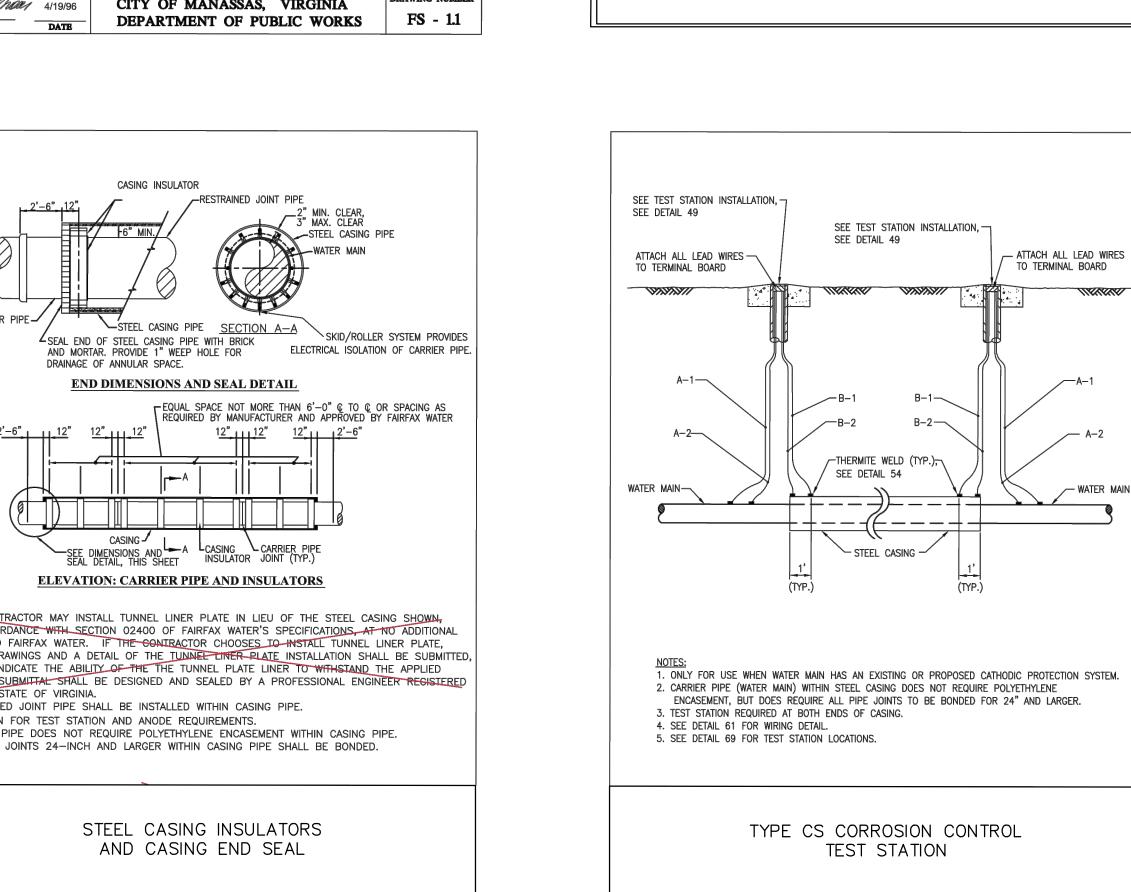


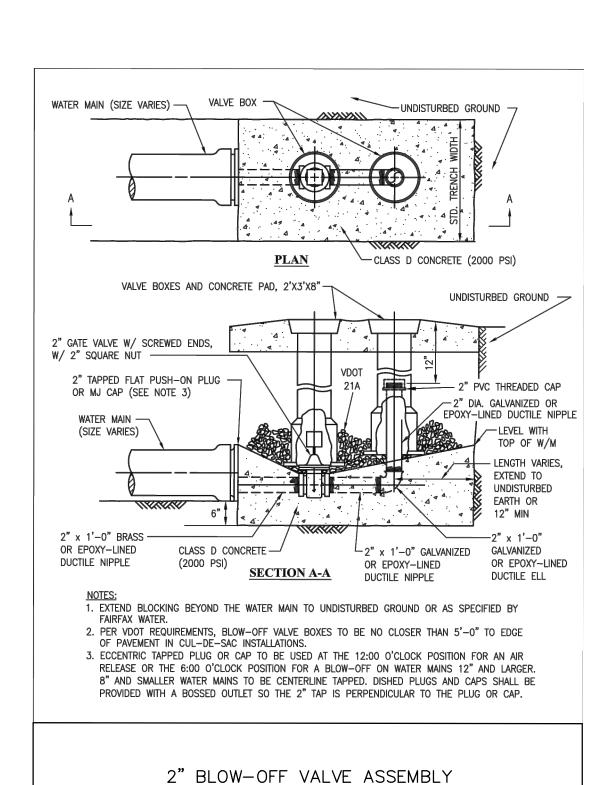




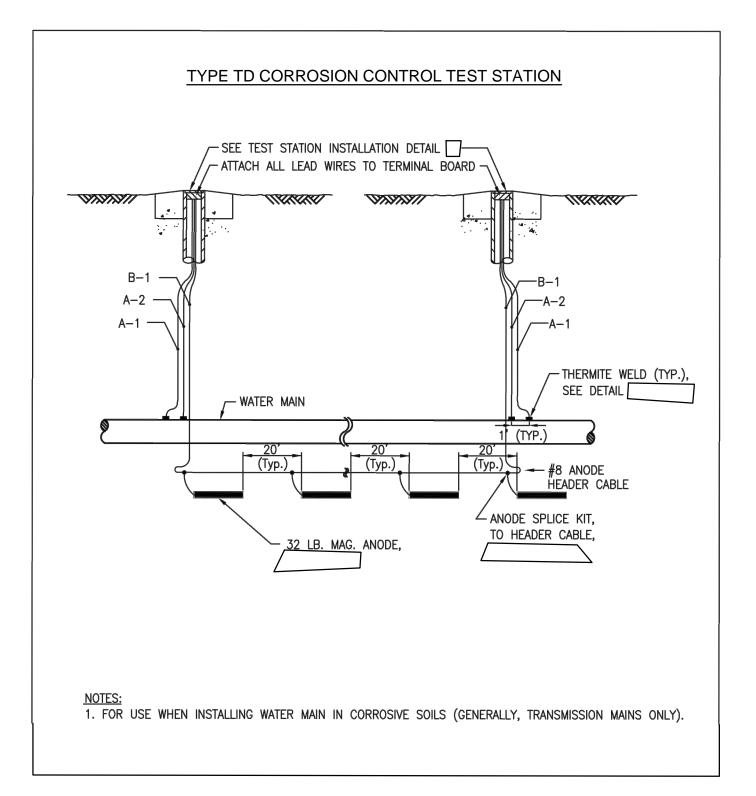


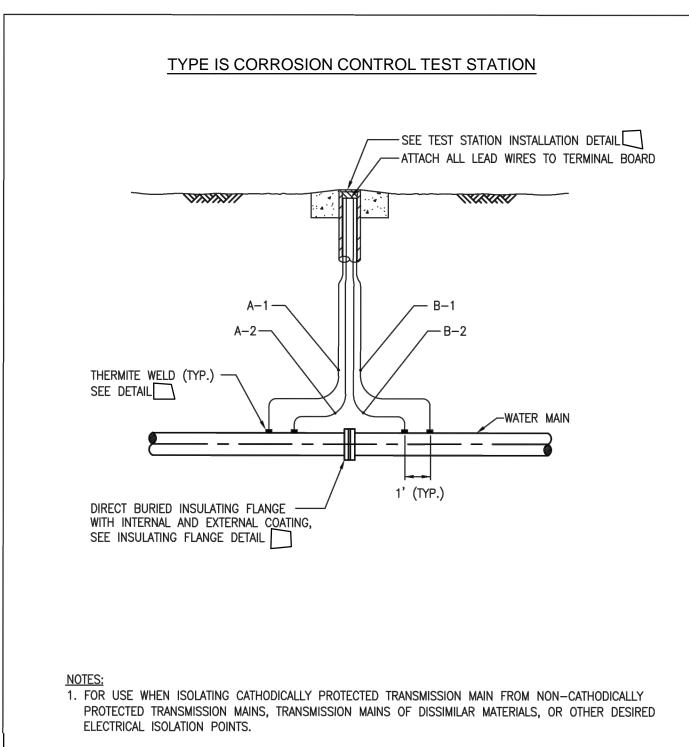


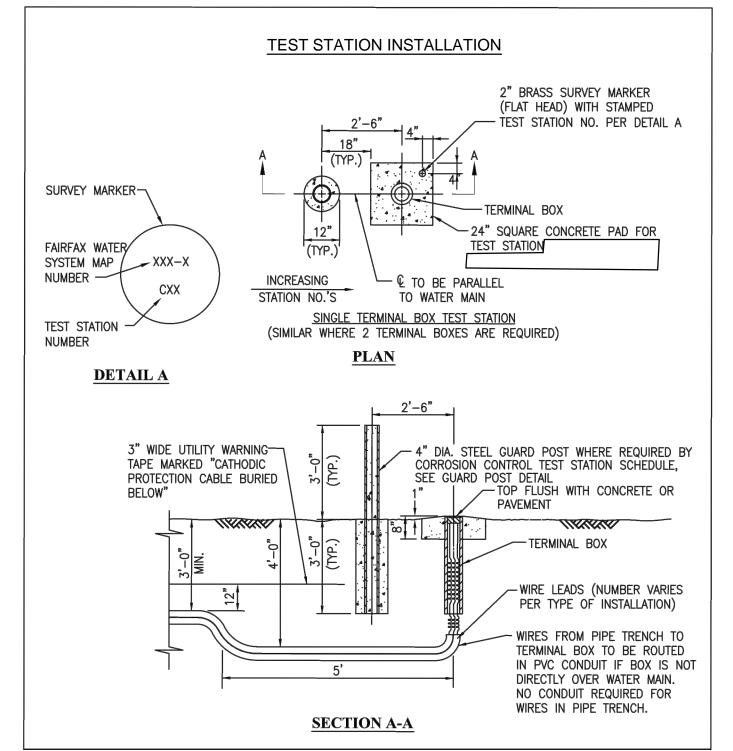


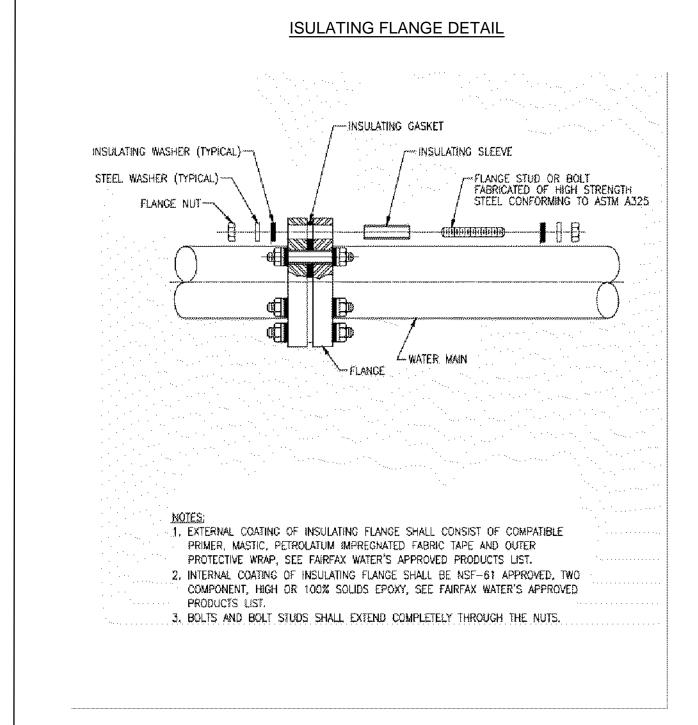


## CATHODIC PROTECTION DETAILS









TYPE TD TEST STATION TERMINAL BOARD AND WIRING

COLOR/AWG

BLACK #12

BLACK #12

BLACK #8

TYPE IS TEST STATION TERMINAL BOARD AND WIRING

DESCRIPTION

PIPE/THWN

PIPE/THWN

ANODE HEADER CABLE

WIRE

DESIGNATION

A-1

B-1

STATION

TERMINAL



SIGN DE 806

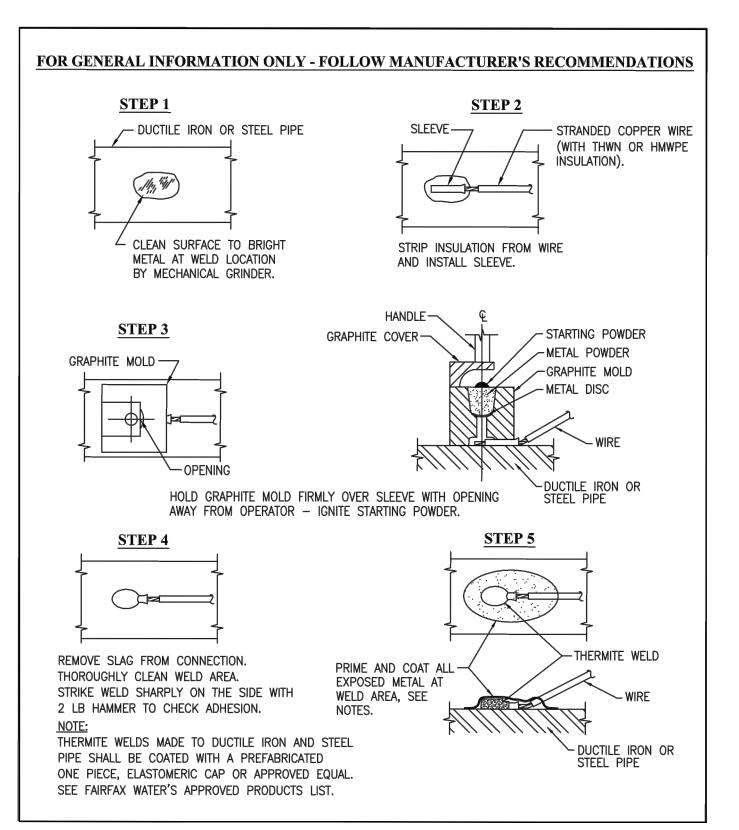
VIRGINI/ VEERING DRIVE 20110

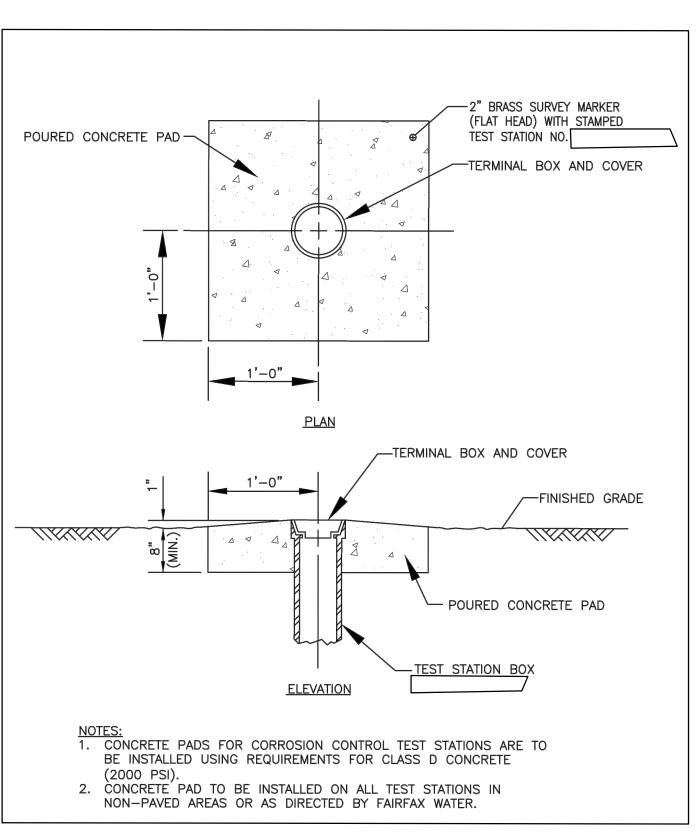
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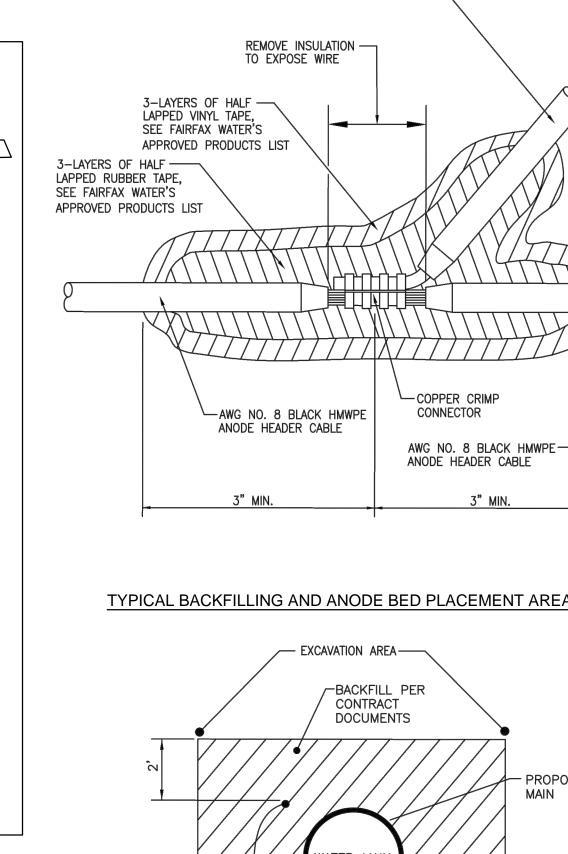
0 TENDEI

SHEET 6C(3) — CATHODIC PROTECTION DETAILS 

#### THERMITE WELD TEST STATION AND CONCRETE PAD

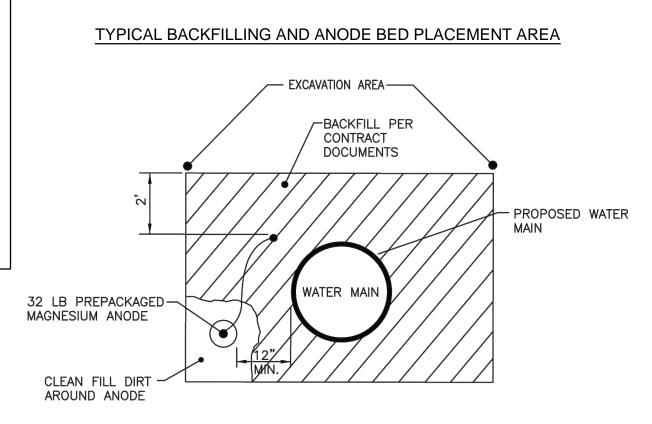


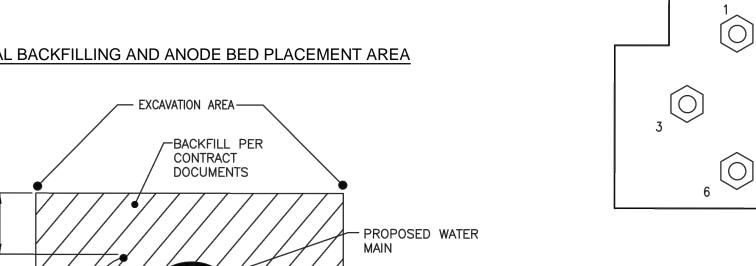




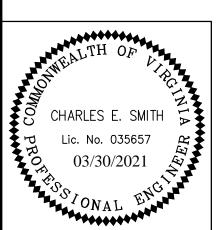
ANODE HEADER CABLE SPLICE

AWG NO. 12 BLACK ANODE LEAD WIRE —

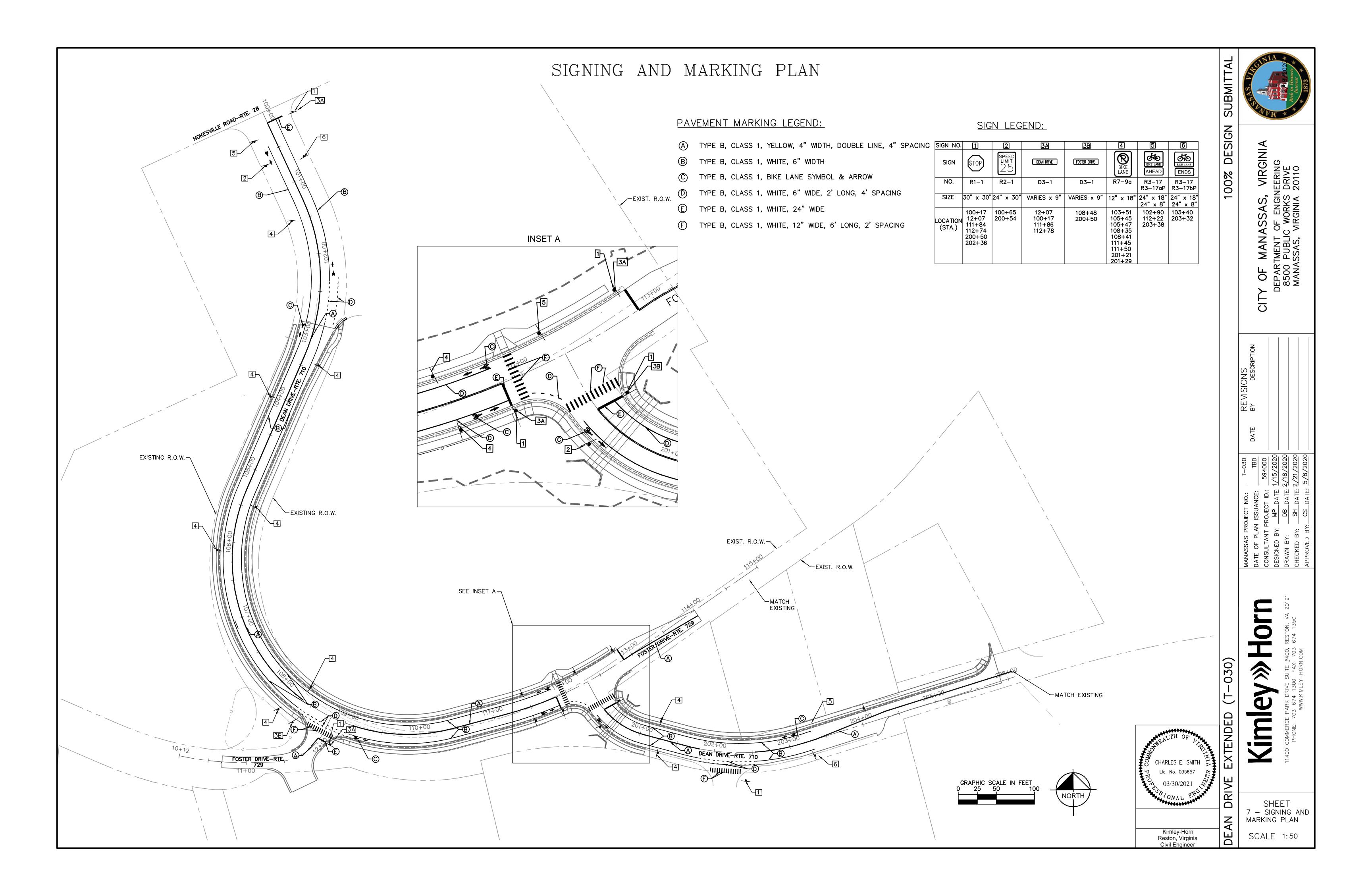


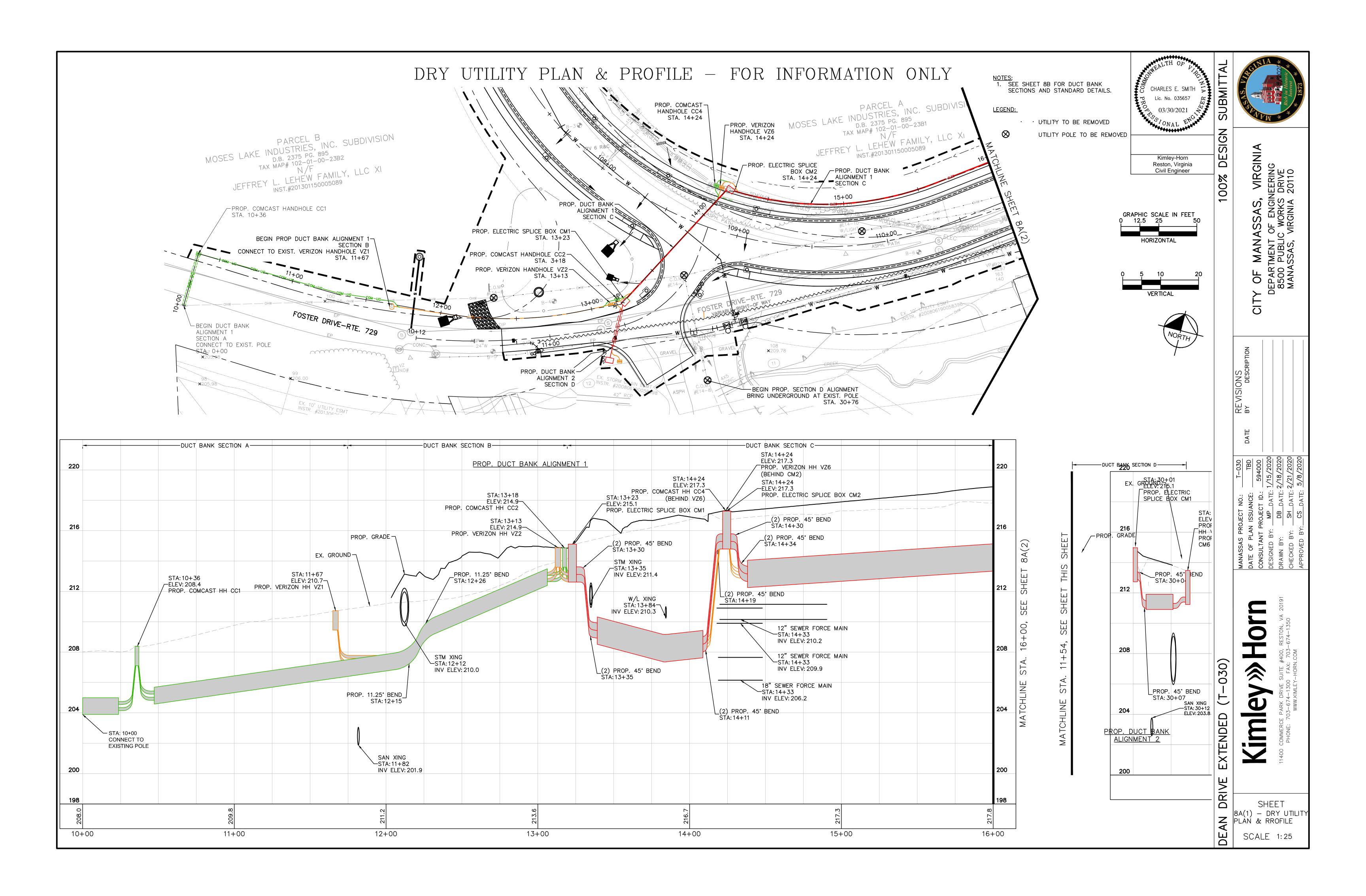


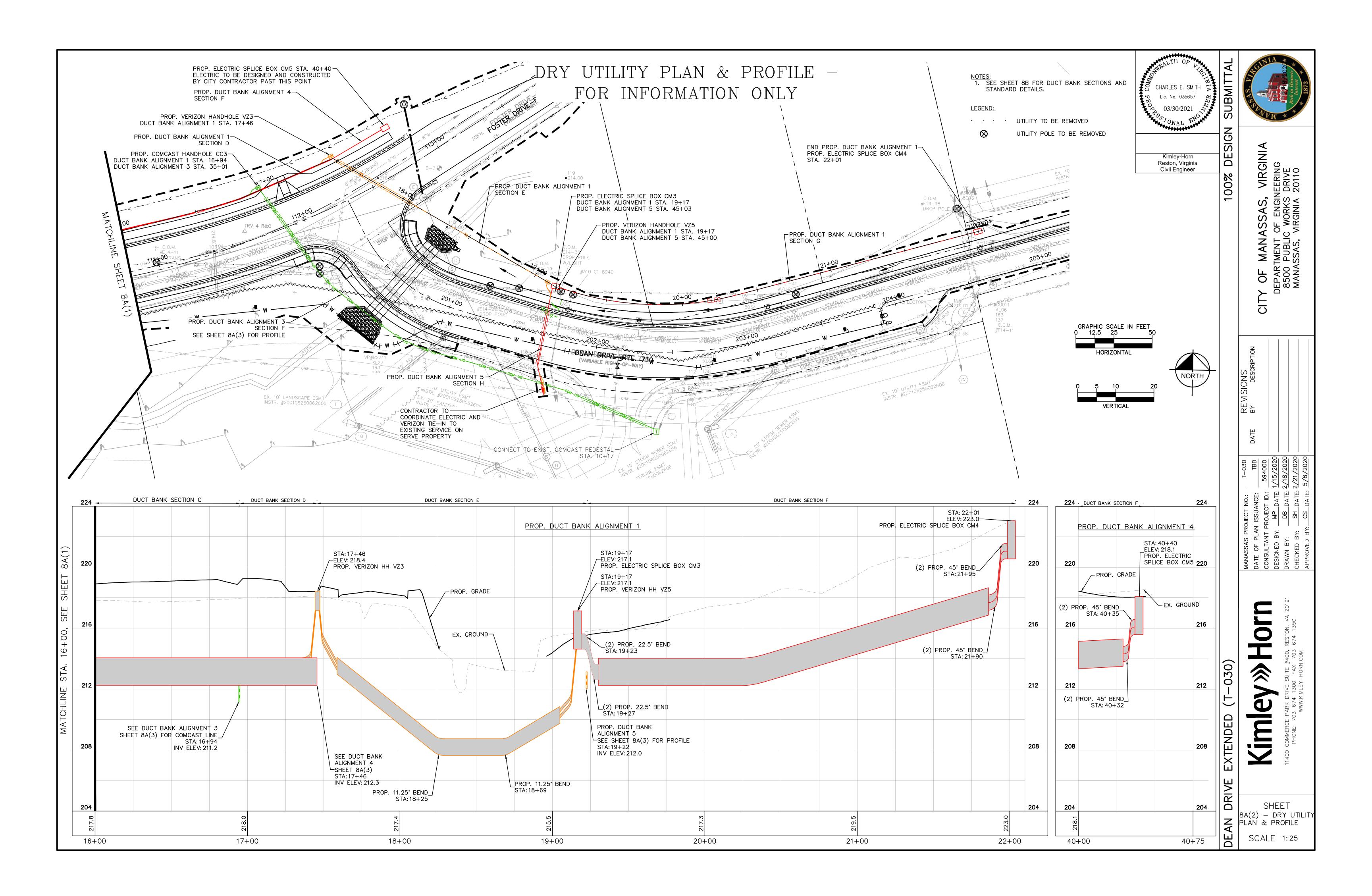
	TEST STATION TERMINAL	WIRE DESIGNATION	COLOR/AWG	DESCRIPTION
	1	A-1	WHITE #12	PIPE/THWN
	2	A-2	WHITE #12	PIPE/THWN
	3	B-1	BLACK #12	PIPE/THWN
	4	B-2	BLACK #12	PIPE/THWN
_			•	



Kimley-Horn Reston, Virginia Roadway Engineer

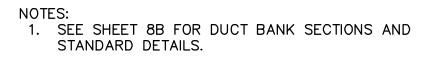


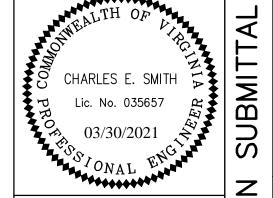




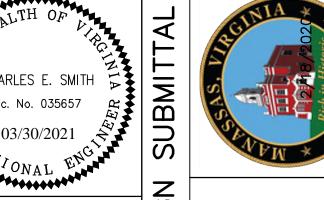
## DRY UTILITY PROFILES -FOR INFORMATION ONLY

224

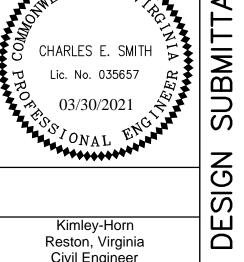




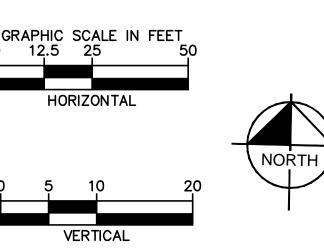
100%

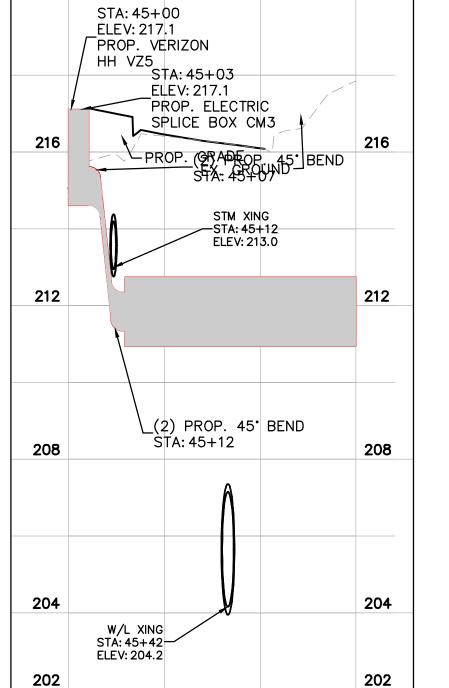


Kimley-Horn



Reston, Virginia Civil Engineer



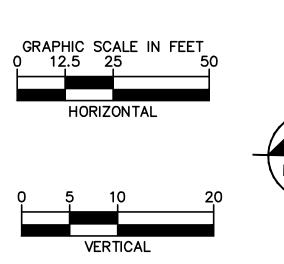


DUCT BANK SECTION D

PROP. DUCT BANK ALIGNMENT 5

220

45+00



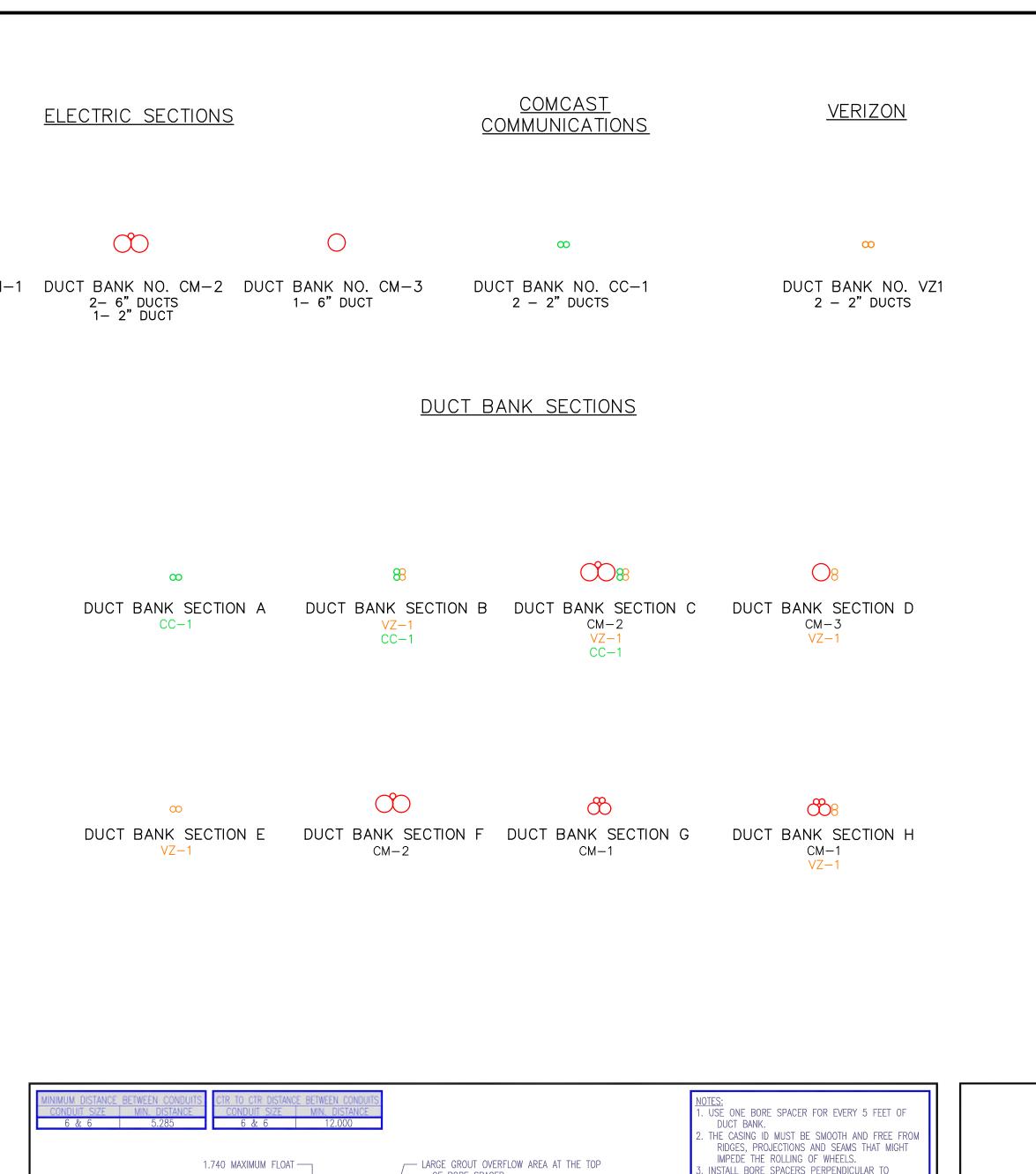
TY OF MANASSAS, VIRGINIA
DEPARTMENT OF ENGINEERING
8500 PUBLIC WORKS DRIVE
MANASSAS, VIRGINIA 20110

SHEET 8A(3) — DRY UTILITY PLAN & PROFILE

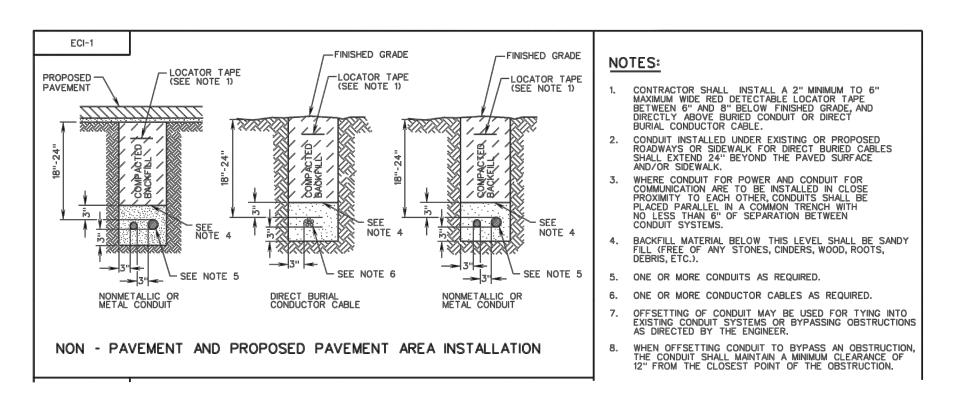
45+74.85

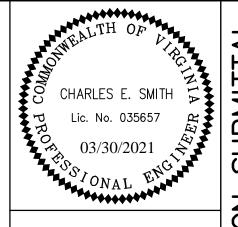
STA: 38+17 ELEV: 221.0— EXIST. COMCAST PEDESTAL PROP. DUCT BANK ALIGNMENT 3 STA: 35+01 PROP. COMCAST HH CC3 220 EX. GROUND PROP. GRADE 216 216 EX. STM XING —STA: 36+58 ELEV: 211.8 212 212 208 208 FORCE MAIN/DUCT BANK XING STA: 35+45— ELEV: 209.5 PROP. 11.25° BEND\_ STA: 35+94 W/L XING —STA: 36+41 ELEV: 204.0 PROP. 11.25° BEND\_/ STA: 36+18 204 204 202 202 37+00 36+00 38+00

DUCT BANK SECTION A



# DRY UTILITY GENERAL NOTES & STANDARD DETAILS - FOR INFORMATION ONLY



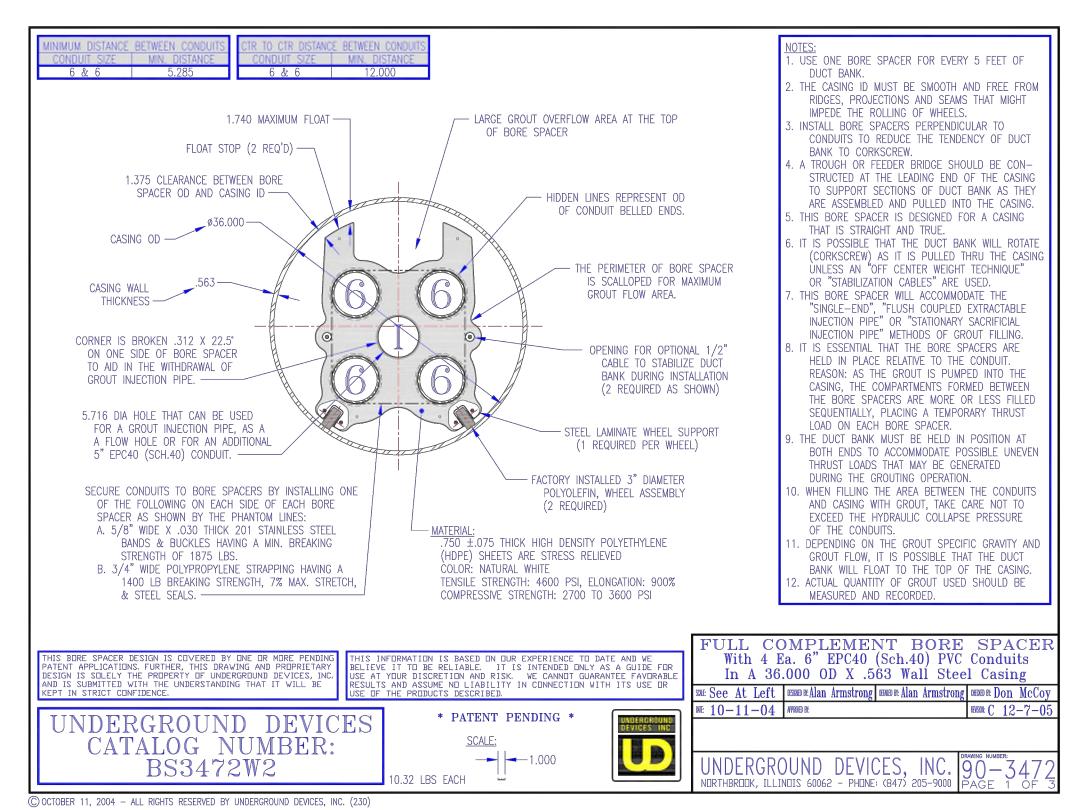


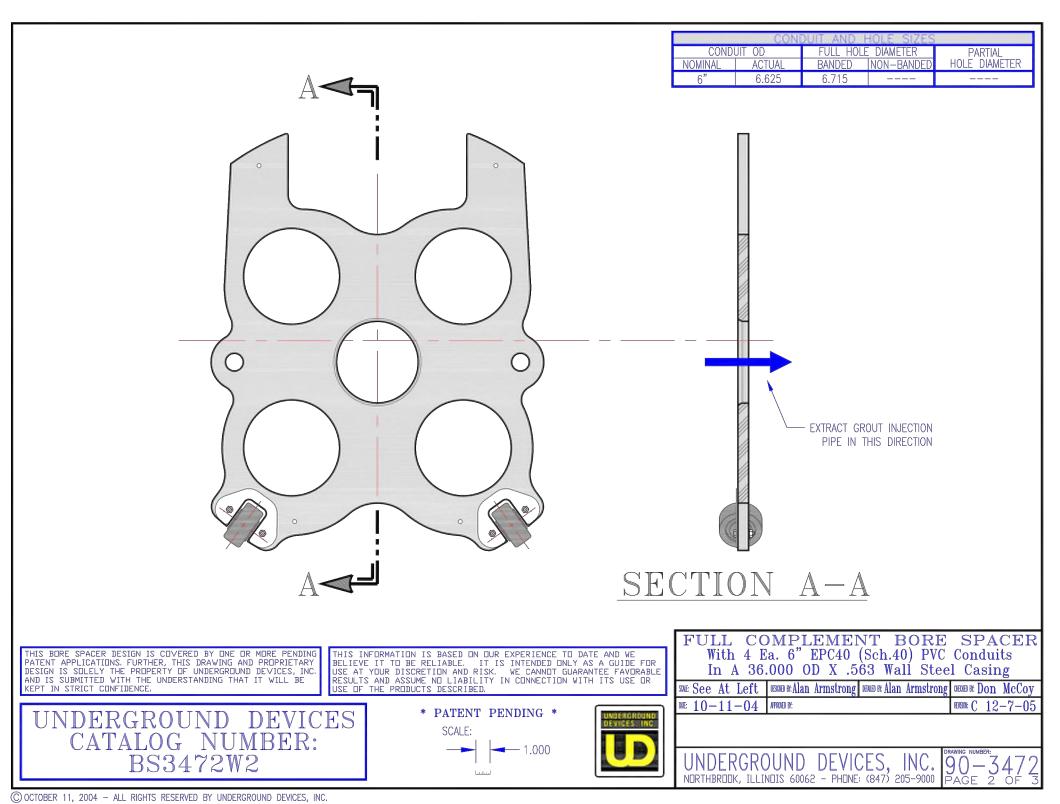
Kimley-Horn Reston, Virginia Civil Engineer

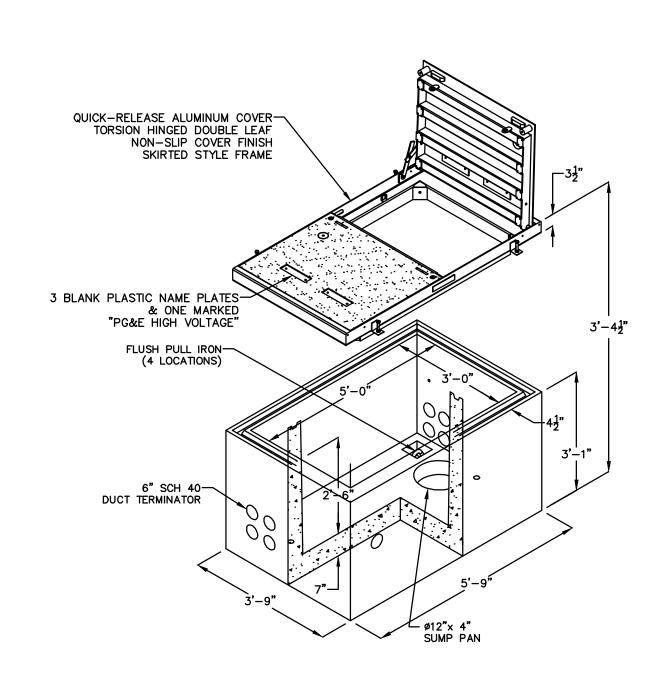
DE

JUNCTION BOX SEE SHEET ET-06 -CONCRETE ENCASEMENT, WHERE REQUIRED -- TERMINATE CONDUITS INSIDE JUNCTION BOX SWEEP ELBOW (R = 6 \* CONDUIT DIA.)

DUCT BANK HAND HOLE DETAIL







ELECTRIC SPLICE BOX DETAIL

0 0

SHEET DRY UTILITY GENERAL NOTES &
STANDARD DETAILS STANDARD DETAILS SCALE NTS

