

Milestone
COMMUNICATIONS



WIDEWATER 134 DEN RICH ROAD STAFFORD COURTHOUSE, VA 22554

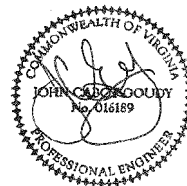


6600 Rockledge Drive, Suite 550
BETHESDA, MD 20817
PHONE: (202)408-0960
FAX: (202)408-0961

SUBMITTALS

DATE	DESCRIPTION	REV.
01-20-20	ZONING REVIEW	
02-06-20	ZONING	

SEAL:



NOTE: MONOPOLES AND COMMUNICATION TOWERS SHALL BE INSTALLED IN CONFORMANCE WITH ANSI/EIA/TIA-222, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CONSTRUCTION MANAGER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE PROJECT BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY THE CONSTRUCTION MANAGER.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT.

APPROVALS

MILESTONE COMMUNICATIONS:

NAME _____ DATE _____

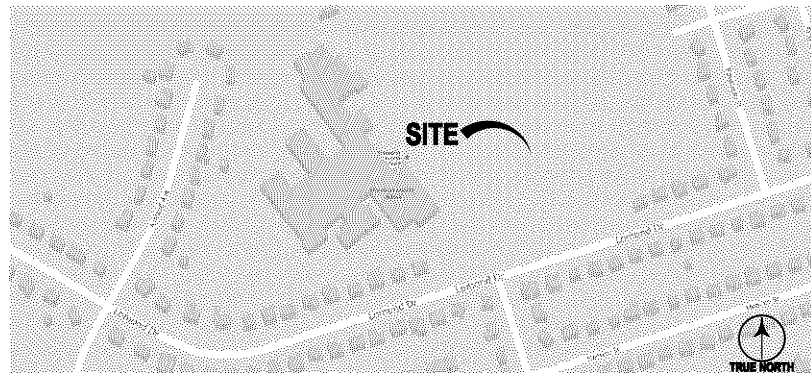
OWNER REPRESENTATIVE:

NAME _____ DATE _____

VICINITY MAP

DIRECTIONS:

FROM 12110 SUNSET HILLS ROAD RESTON, VA:- PROCEED WEST ON SUNSET HILLS RD. TURN RIGHT ONTO THE RAMP TO FAIRFAX COUNTY PKWY. TURN RIGHT ONTO FAIRFAX COUNTY PKWY. TAKE RAMP RIGHT TO I-66 WEST TOWARD FRONT ROYAL. AT EXIT 47B TAKE RAMP RIGHT FOR VA-234 SOUTH. KEEP TURN LEFT ONTO LOMOND DRIVE. ARRIVE AT 10100 LOMOND DRIVE ON THE LEFT.



SHEET INDEX

- | | |
|------|---|
| T-1 | TITLE SHEET |
| Z-1 | SITE PLAN |
| Z-1A | ADJOINERS |
| Z-2 | EROSION AND SEDIMENT CONTROL PLAN AND DETAILS |
| Z-3 | COMPOUND PLAN |
| Z-4 | MONOPOLE ELEVATION |
| Z-5 | SITE DETAILS |
| Z-6 | VZW ANTENNA SCHEDULE AND DETAILS |
| Z-7 | VZW RRH AND DISTRIBUTION BOX DETAILS |
| Z-8 | VZW EQUIPMENT LAYOUT PLAN AND DETAILS |
| Z-9 | VZW EQUIPMENT CABINET DETAILS |

SYMBOLS AND ABBREVIATIONS

ADJ	ADJUSTABLE	MECH	MECHANICAL	◆	SPOT ELEVATION
APPROX	APPROXIMATE	MFR	MANUFACTURER	℄	CENTERLINE
CAB	CABINET	MGB	MAIN GROUND BAR	℄	PLATE
CLG	CEILING	MIN	MINIMUM	No. SHT	DETAIL NUMBER SHEET NUMBER
CONC	CONCRETE	MTL	METAL	— G —	GROUND WIRE
CONT	CONTINUOUS	NIC	NOT IN CONTRACT	○	ANTENNA
CJ	CONSTRUCTION JOINT	NTS	NOT TO SCALE		
DIA	DIAMETER	OC	ON CENTER		
DWG	DRAWING	OPP	OPPOSITE		
EGB	EQUIPMENT GROUND BAR	SF	SQUARE FOOT		
EA	EACH	SHT	SHEET		
ELEC	ELECTRICAL	SM	SIMILAR		
EL	ELEVATION	SS	STAINLESS STEEL		
EQ	EQUAL	STL	STEEL		
EQUIP	EQUIPMENT	TOC	TOP OF CONCRETE		
EXT	EXTERIOR	TOM	TOP OF MASONRY		
FF	FINISHED FLOOR	TOS	TOP OF STEEL		
GA	GAGE	TYP	TYPICAL		
GALV	GALVANIZED	VIF	VERIFY IN FIELD		
GB	GROUND BAR	UON	UNLESS OTHERWISE NOTED		
GC	GENERAL CONTRACTOR	WWF	WELDED WIRE FABRIC		
GRND	GROUND	W/	WITH		
LG	LONG	&	AND		
LLH	LONG LEG HORIZONTAL	⊙	AT		
MAX	MAXIMUM				

PROJECT DESCRIPTION

SCOPE OF WORK:

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
2. INSTALL SEDIMENT AND EROSION CONTROLS AND TREE PROTECTION FENCE.
3. CLEAR AND GRADE SITE TO FINAL SUBGRADE ELEVATION.
4. INSTALL A NEW MONOPOLE FOUNDATION AND 130' HIGH MONOPOLE.
5. INSTALL UTILITY FRAME, MESA BASE, SITE GROUNDING, COMPOUND SUBGRADE.
6. INSTALL ELECTRICAL AND TELEPHONE CONDUIT AND HAND HOLES.
7. INSTALL FENCE AND SITE IMPROVEMENTS.
8. INSTALL CARRIER PANEL ANTENNAS ON THE MONOPOLE.
9. INSTALL CARRIER RF CABLES INSIDE THE MONOPOLE.
10. INSTALL CARRIER EQUIPMENT.

PROJECT INFORMATION

PROPERTY OWNER: POTOMAC-STAFFORD CO LL
PO BOX 2648
STAFFORD, VA 22555

APPLICANT: MILESTONE COMMUNICATIONS
12110 SUNSET HILLS ROAD, SUITE 100
RESTON, VA 20190
MR. LEN FORKAS
703-620-2555 EXT. 104
len@milestonecorp.com

DESIGNER: ENTREX COMMUNICATION SERVICES, INC.
6600 ROCKLEDGE DRIVE, SUITE 550
12110 SUNSET HILLS ROAD, SUITE 100
BETHESDA, MD 20817
MR. MARC A. MARZULLO, PE
202-408-0960 EXT. 104
mmarzullo@entrex.com

LATITUDE: N 38° 28' 51.228"
LONGITUDE: W 77° 22' 08.194"
GROUND ELEVATION: 159.5' AMSL
JURISDICTION: STAFFORD COUNTY
PROPERTY ID: 22 22
PIN: 15171
ZONING: A1 - AGR MINIMUM 3 AC

PROJECT NO: 1050.287

DESIGNER: M.A.

ENGINEER: M.M.

SCALE:

0 1/2 1
GRAPHIC SCALE IN INCHES

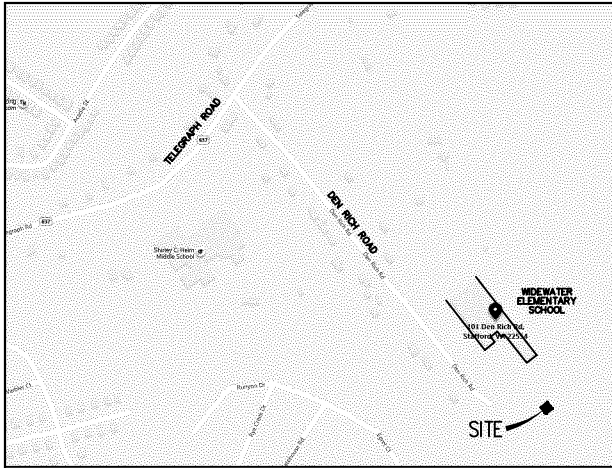
WIDEWATER
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

TITLE SHEET

SHEET NUMBER:

T-2



VICINITY MAP
SCALE: 1" = 500'



SITE PLAN NOTES

- 1.) SITE NAME: WIDENWATER
- 2.) THIS IS NOT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY.
- 3.) THE SUBJECT PARCEL INFORMATION;
OWNER: POTOMAC-STAFFORD CO LLC
PREMISES ADDRESS: 134 DEN RICH RD
STAFFORD, VA 22554
MAILING ADDRESS: P.O. BOX 2648
STAFFORD, VA 22555
JURISDICTION: STAFFORD COUNTY
PROPERTY ID: 22 22
ALTERNATE ID/PIN: 15171
ZONING: A1 USE: UH
- 4.) THE RECORDED REFERENCES FOR THE SUBJECT PARCEL ARE AS FOLLOWS:
DOCUMENT NUM: 130027630X
AREA: 202.0 AC
- 5.) THE DATUM'S ARE NAD 83 AND NAVD 88, AND THE BEARING BASE IS STATE GRID.
- 6.) NO UNDERGROUND UTILITIES HAVE BEEN LOCATED, THE PRESENCE OF ANY SUCH UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- 7.) NO WETLANDS HAVE BEEN DEFINED AND ANY AREAS SHOWN AS MARSH, PONDS OR DITCHES ARE DONE SO FROM VISIBLE SURFACE FEATURES AND IN NO WAY CONSTITUTE A DEFINED WETLAND.
- 8.) THE FLOOD ZONE OF THE PROPOSED MONOPOLE IS AS FOLLOWS: FLOOD ZONE X, AREA OF MINIMUM FLOODING, SOURCE, FEMA FLOOD MAP FOR STAFFORD COUNTY, VA, COMMUNITY PANEL NUMBER 51179C 0151F, REVISED, FEBRUARY 18, 2015.
- 9.) A TITLE REPORT WAS REVIEWED FOR THIS SURVEY.
- 10.) THE DATA COLLECTED AND SHOWN ON THIS DRAWING ARE FOR THE PURPOSES OF CONSTRUCTION OF A CELLULAR MONOPOLE, ANY NECESSARY ANCILLARY EQUIPMENT AND ALL APPROPRIATE EASEMENTS.
- 11.) NO UNRECORDED EASEMENTS ARE SHOWN ON THIS SURVEY AND IT IS POSSIBLE THAT SUCH EASEMENTS IMPACT THE SITE.
- 12.) THIS PROPERTY IS SUBJECT TO ALL MATTERS OF PUBLIC RECORD.
- 13.) THE LOCATION OF THE PROPOSED MONOPOLE IS AS FOLLOWS: THE VALUES LISTED BELOW ARE WITHIN ±50' HORIZONTAL AND ±20' VERTICAL.
LATITUDE: N 38° 28' 51.228"
LONGITUDE: W 77° 22' 09.194"
ELEVATION: 159.5' AMSL AT BASE

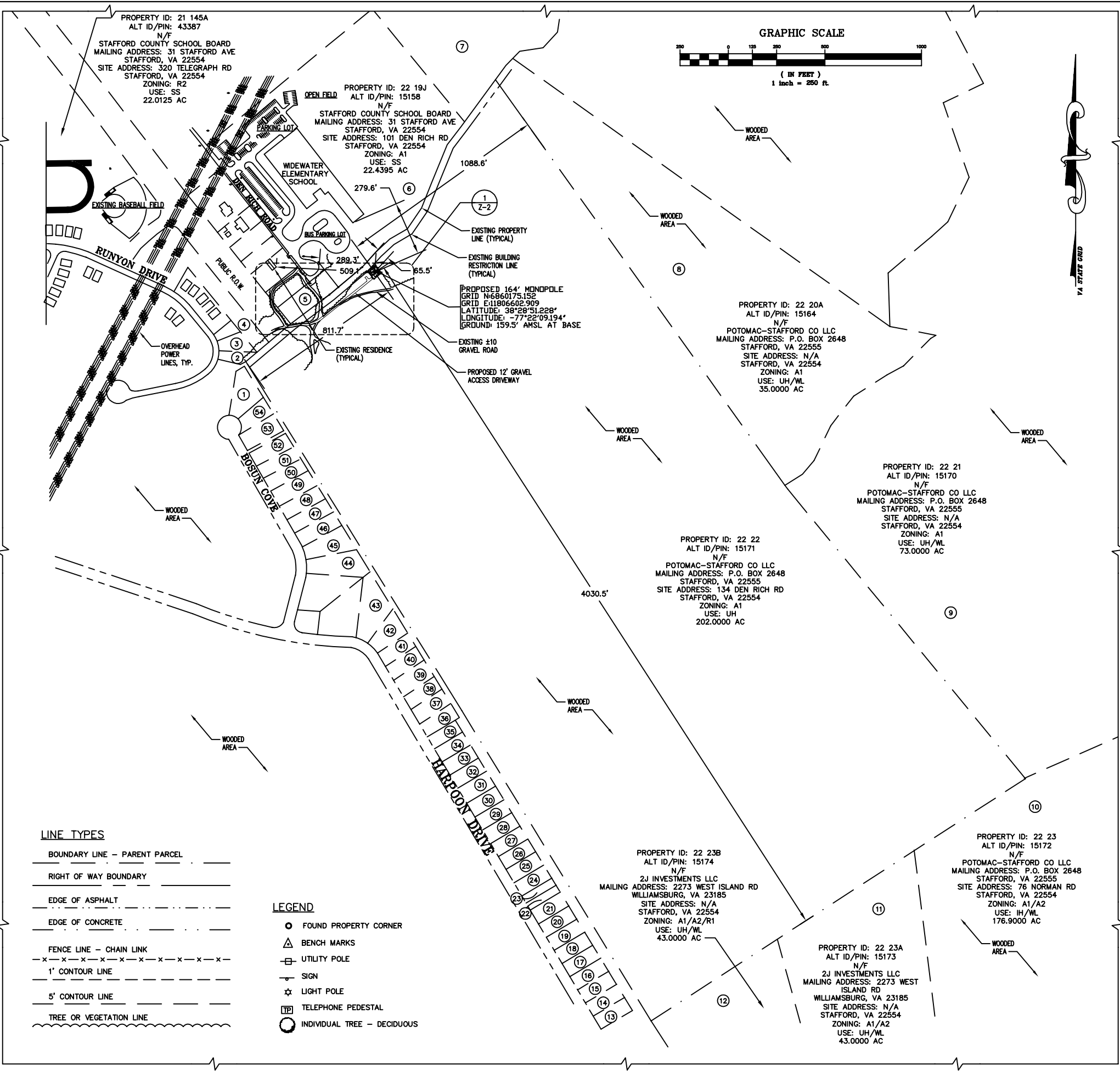
MONOPOLE SETBACKS		
ZONING R-1	REQUIRED	PROPOSED
FRONT YARD (NORTH)	N/A	65.5'
REAR YARD (SOUTH)	N/A	4,030.5'
SIDE YARD (EAST)	N/A	1,088.6'
SIDE YARD (WEST)	N/A	811.7'
CLOSEST OFF SITE RESIDENCE	N/A	509.1'
CLOSEST OFF SITE BUILDING	N/A	279.6'
CLOSEST ROAD	N/A	289.3'

LINE TYPES

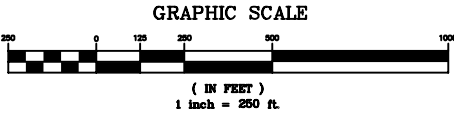
BOUNDARY LINE - PARENT PARCEL	---
RIGHT OF WAY BOUNDARY	- - - - -
EDGE OF ASPHALT	----
EDGE OF CONCRETE	=====
FENCE LINE - CHAIN LINK	-x-x-x-x-x-x-x-x-x-x-x-
1' CONTOUR LINE	- - - - -
5' CONTOUR LINE	-----
TREE OR VEGETATION LINE	~~~~~

LEGEND

- FOUND PROPERTY CORNER
- △ BENCH MARKS
- UTILITY POLE
- ▽ SIGN
- ☆ LIGHT POLE
- TP TELEPHONE PEDESTAL
- INDIVIDUAL TREE - DECIDUOUS



SITE PLAN
SCALE: 1" = 200'

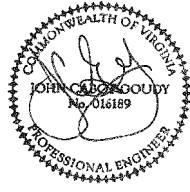


6600 Rockledge Drive, Suite 550
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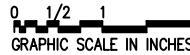
SEAL:



Milestone
COMMUNICATIONS

PROJECT NO: 1050.287
DESIGNER: R.S.
ENGINEER: M.M.

SCALE:



WIDENWATER
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

SITE PLAN

SHEET NUMBER:

Z-1

Z-1A

AREA TABULATION

SITE AREA: 202 AC
IMPERVIOUS AREA: 7,982 SF.
DISTURBED AREA: 18,211 SF.

NOTE
LANDSCAPE BUFFER NOT SHOWN FOR CLARITY.

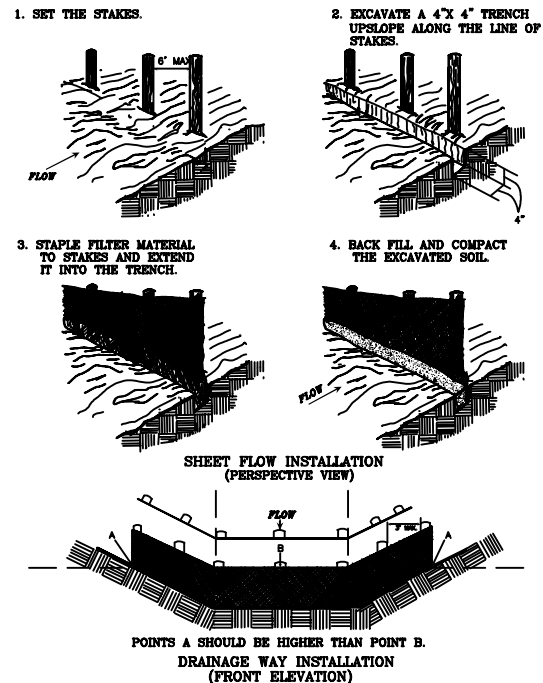
LINE TYPES

CONCRETE CURB
FENCE LINE -- CHAIN
EX. 1' CONTOUR LINE
EX. 5' CONTOUR LINE
PROP. 1' CONTOUR LINE
PROP. 5' CONTOUR LINE
LIMITS OF DISTURBANCE
TREE PROTECTION FENCE
TPF

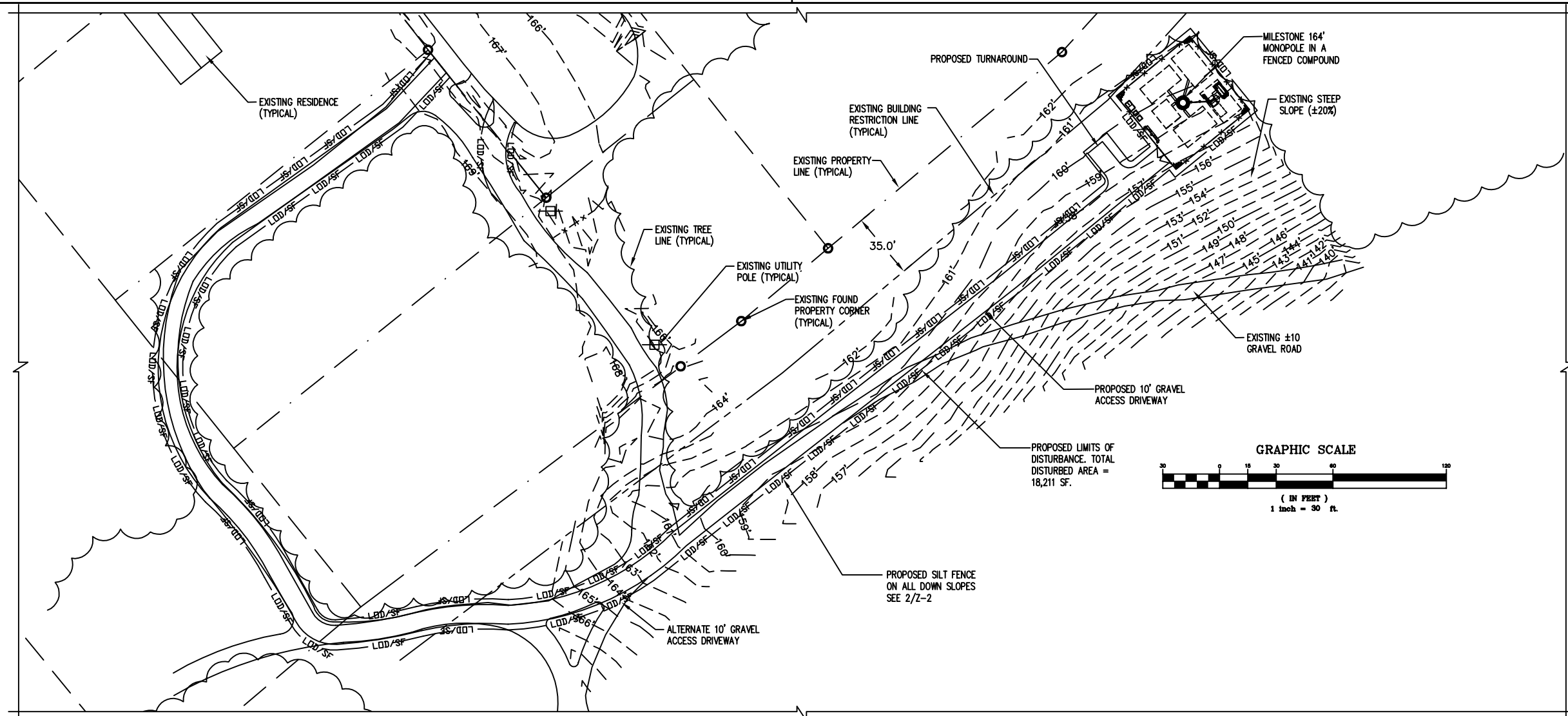
VIRGINIA UNIFORM CODING SYSTEM FOR
EROSION AND SEDIMENT CONTROL PRACTICES

3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE
3.05 LIMITS OF DISTURBANCE/SILT FENCE
SP STOCKPILE AREA

CONSTRUCTION OF A SILT FENCE
(WITHOUT WIRE SUPPORT)



SILT FENCE
SCALE: N.T.S.



ENLARGED SITE PLAN
SCALE: 1" = 30'

entrex
communication services, inc.

6600 Rockledge Drive, Suite 550
BETHESDA, MD 20817
PHONE: (202)408-0960
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SEAL:

COMMONWEALTH OF VIRGINIA
JOHN C. BOUDRY
No. 016189
PROFESSIONAL ENGINEER

Milestone
COMMUNICATIONS

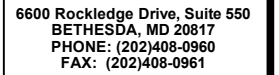
PROJECT NO: 1050.287
DESIGNER: R.S.
ENGINEER: M.M.

SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

WIDewater
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:
**ENLARGED
SITE PLAN**

SHEET NUMBER:
Z-2

[illegible]

A circular professional engineer seal for the Commonwealth of Virginia. The outer ring contains the text "COMMONWEALTH OF VIRGINIA" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by a decorative border of small stars. In the center, the name "JOHN CAPOZZOULY" is printed above the number "No. 016189". A stylized signature is written across the center of the seal.



PROJECT NO:	1050.287
DESIGNER:	M.A.
ENGINEER:	M.M.

SCALE:

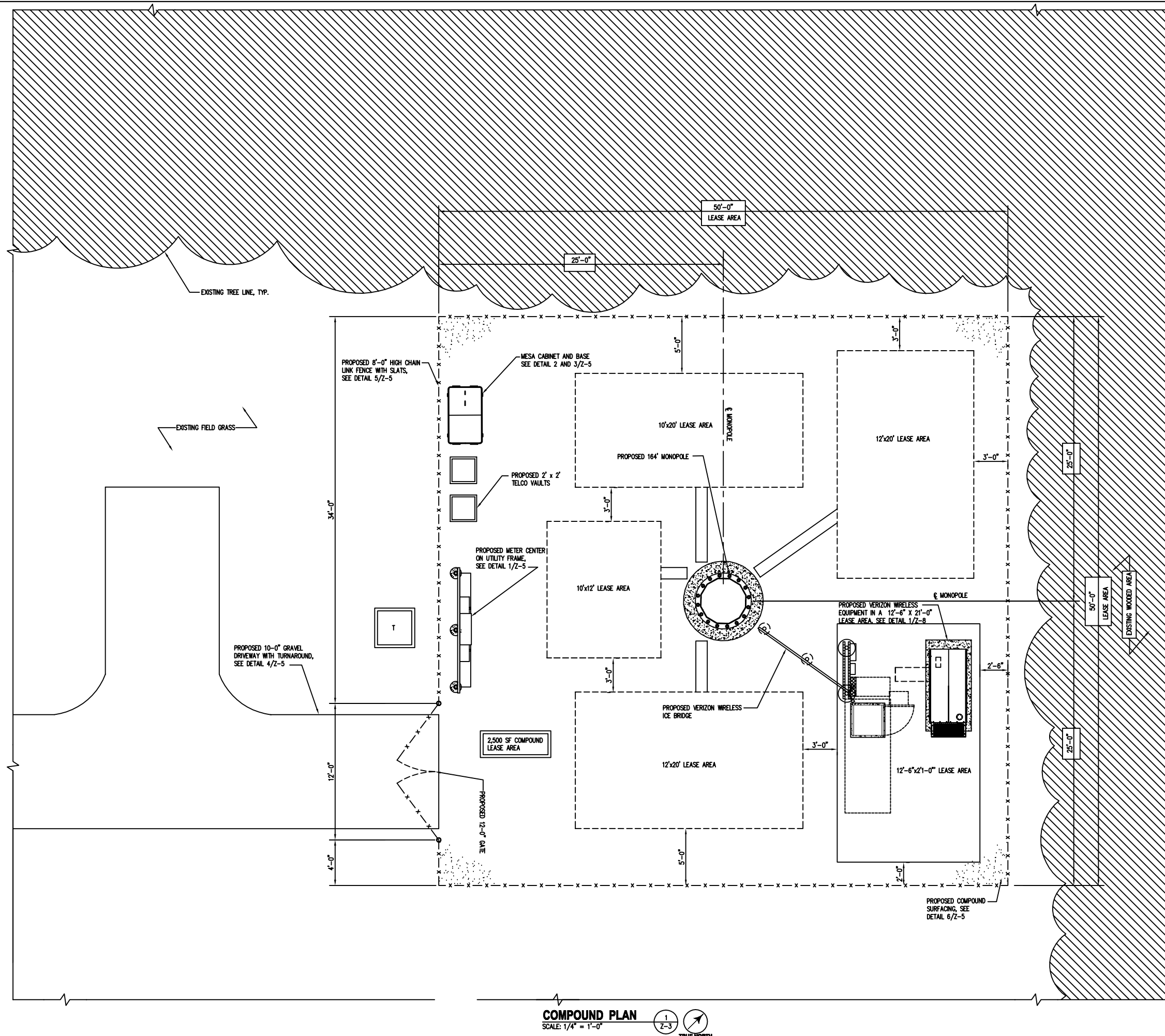
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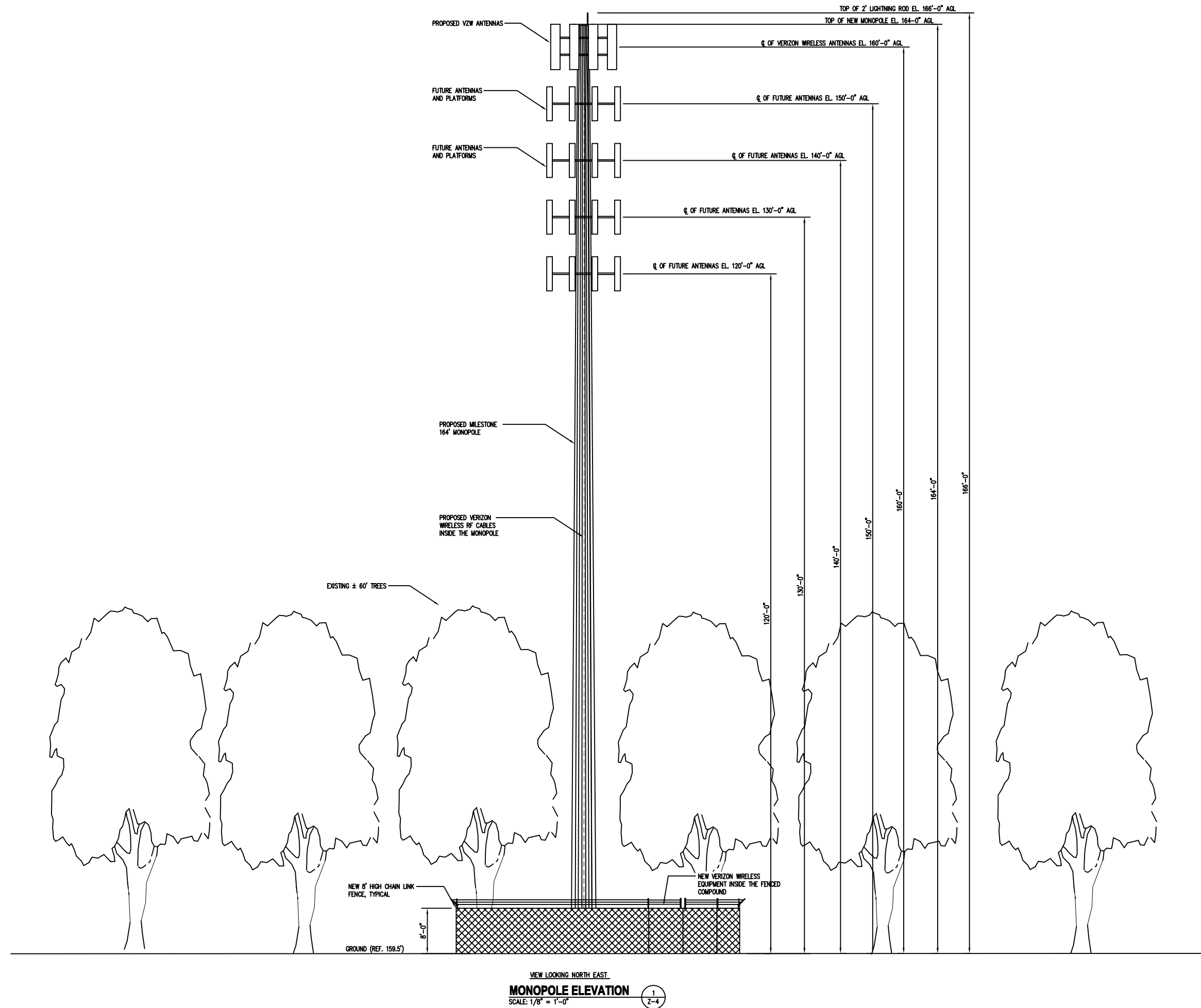
GRAPHIC SCALE IN INCHES

**WIDEWATER
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554**

COMPOUND PLAN

SHEET NUMBER:
Z-3



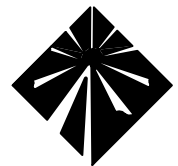


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SEAL:



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COMMUNICATIONS

PROJECT NO: 1050.287

DESIGNER: R.S.

ENGINEER: M.M.

SCALE:



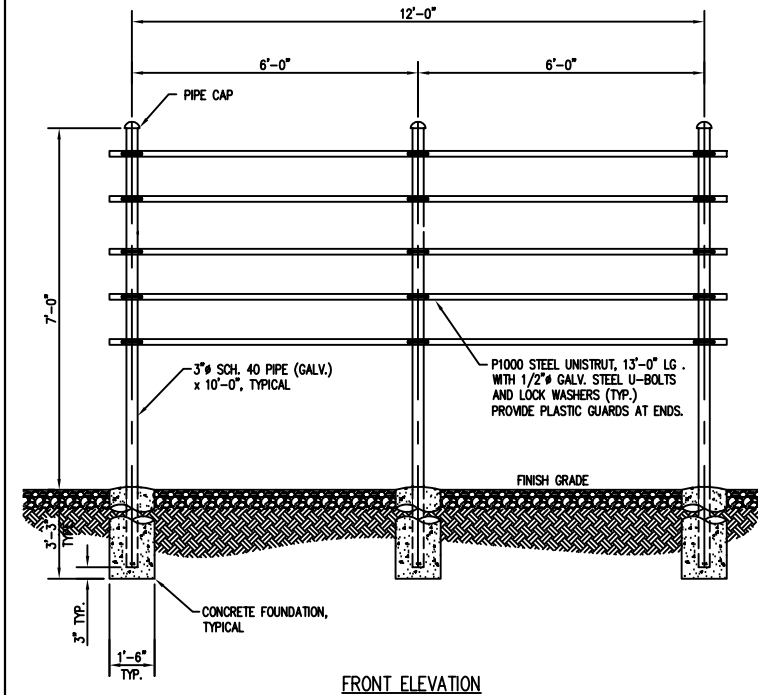
WIDEWATER
134 DEN RICH ROAD
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TITLE:

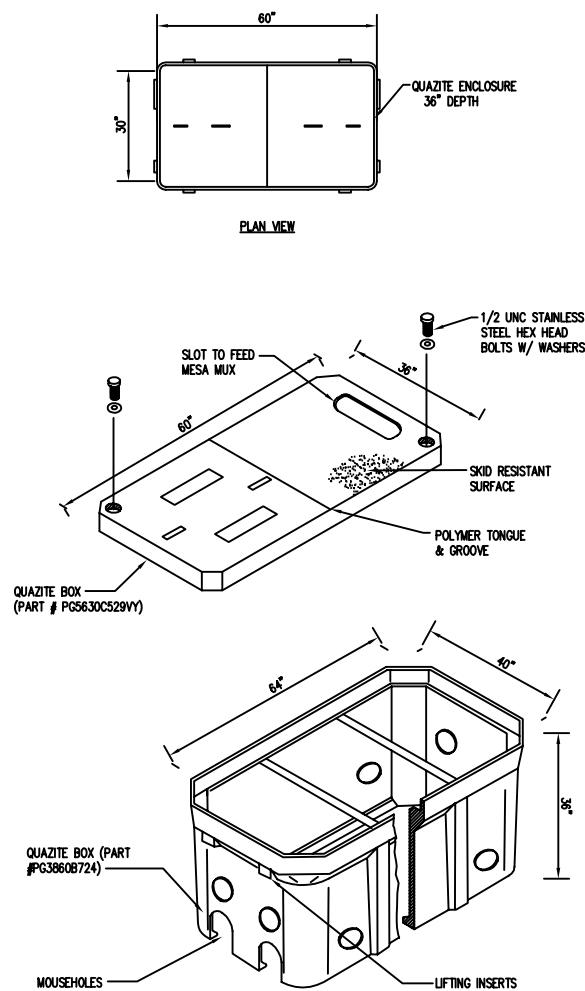
MONOPOLE
ELEVATION

SHEET NUMBER:

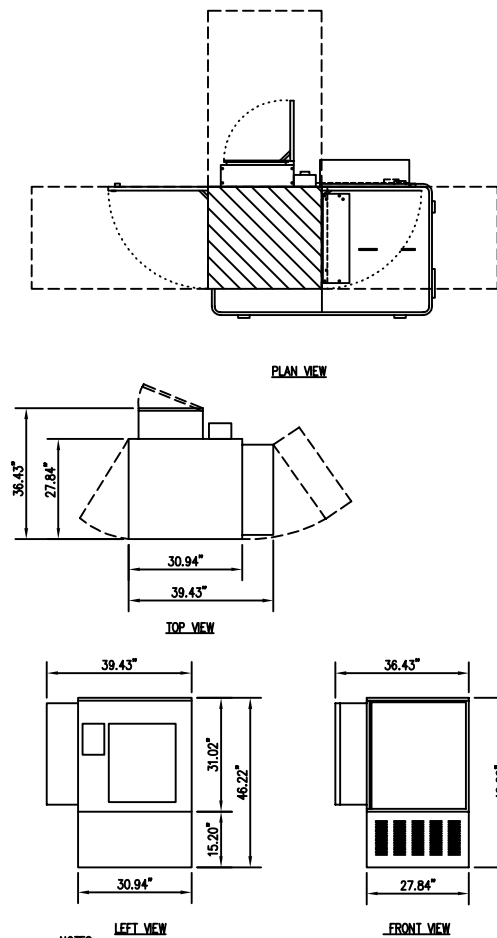
Z-4



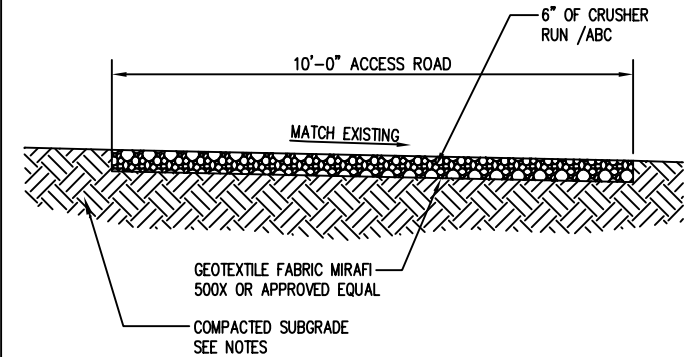
UTILITY FRAME DETAIL 1
SCALE: 3/4"=1'-0" Z-5



FUTURE MESA QUAZITE VAULT 2
SCALE: 1/2"=1'-0" Z-5



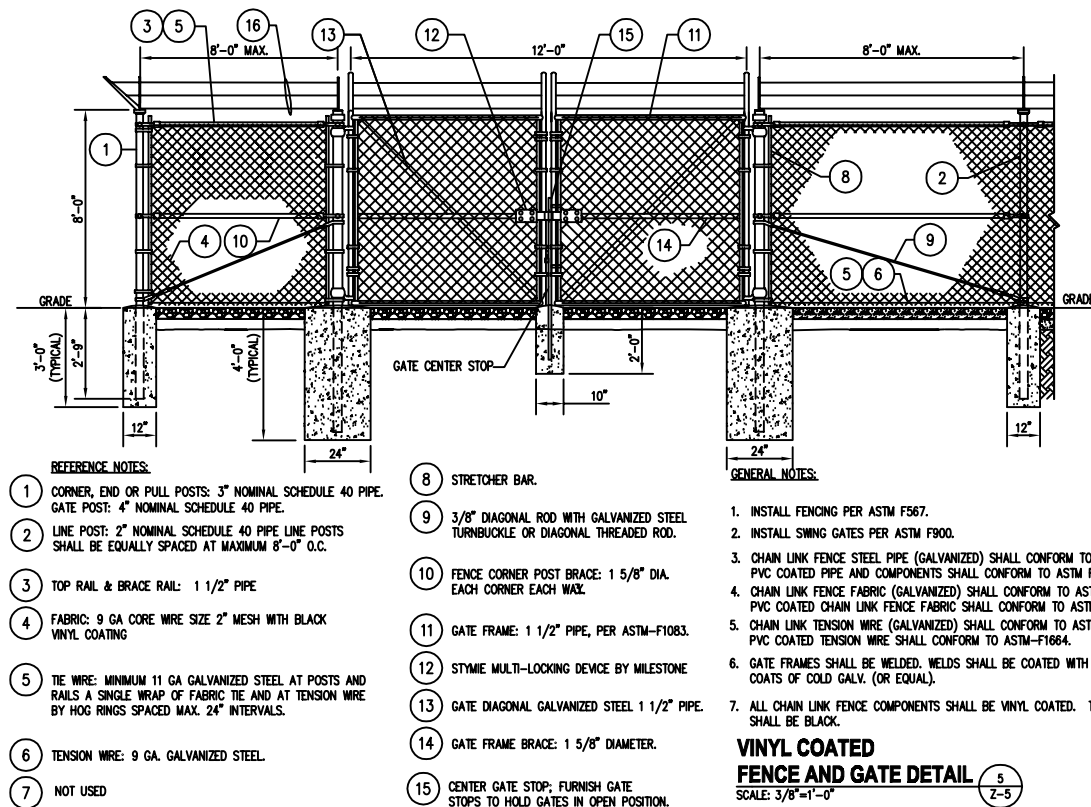
FUTURE MESA SPAN XL TELCO CABINET DETAILS 3
SCALE: 1/2"=1'-0" Z-5



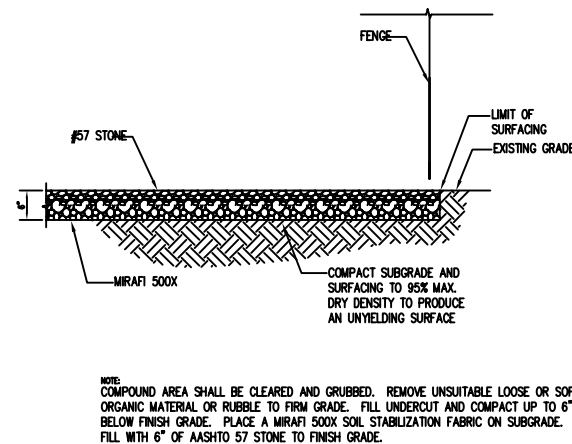
ACCESS ROAD:
FILL, UNDERCUT AND COMPACT TEMPORARY ACCESS ROAD UP TO 6" BELOW FINISH GRADE. PLACE MIRAFI, 500X STABILIZATION FABRIC ON SUBGRADE. PULL TIGHT AND STAKE IN PLACE. PLACE AND COMPACT 6" DEPTH OF CRUSHER RUN/ABC TO FINISH GRADE.

COMPACTION NOTES:
1. SURFACE COURSE AND BASE COURSE SHALL BE COMPACTED TO 98% MAX. DRY DENSITY STANDARD PROCTOR.
2. SUBGRADE SOIL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY STANDARD PROCTOR.

GRAVEL ACCESS ROAD DETAIL 4
SCALE: N.T.S. Z-5



VINYL COATED FENCE AND GATE DETAIL 5
SCALE: 3/8"=1'-0" Z-5

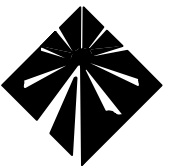
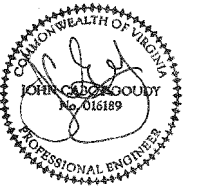


COMPOUND SURFACING DETAIL 6
SCALE: 1-1/2"=1'-0" Z-5

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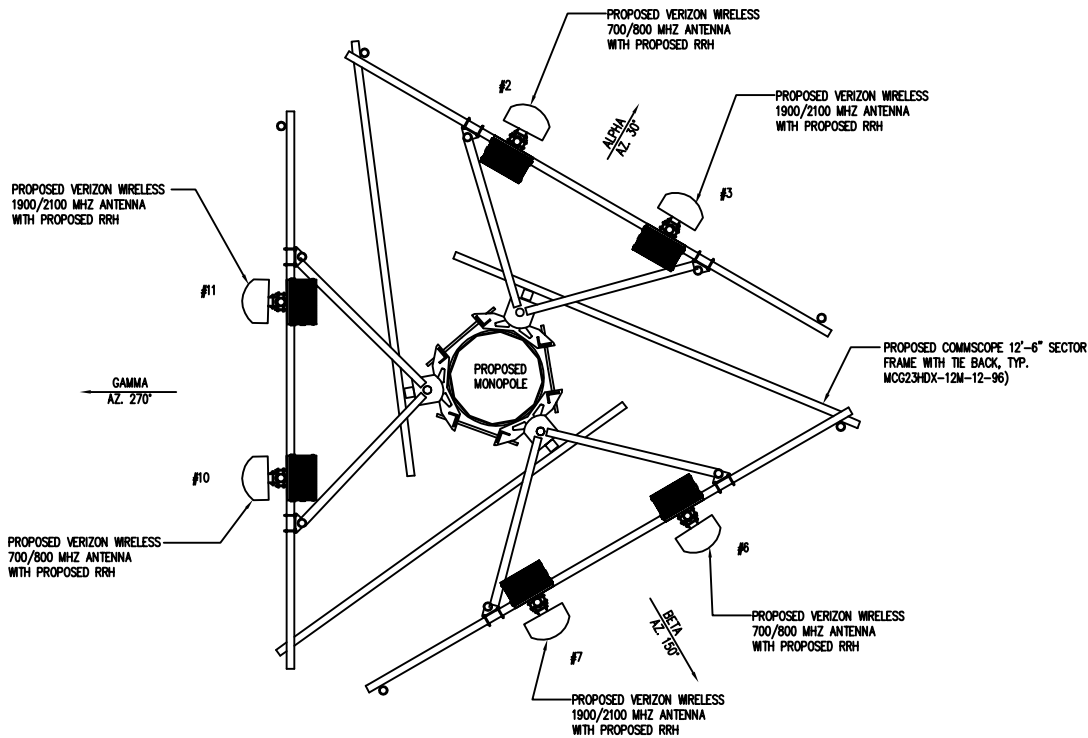
SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

WIDewater
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

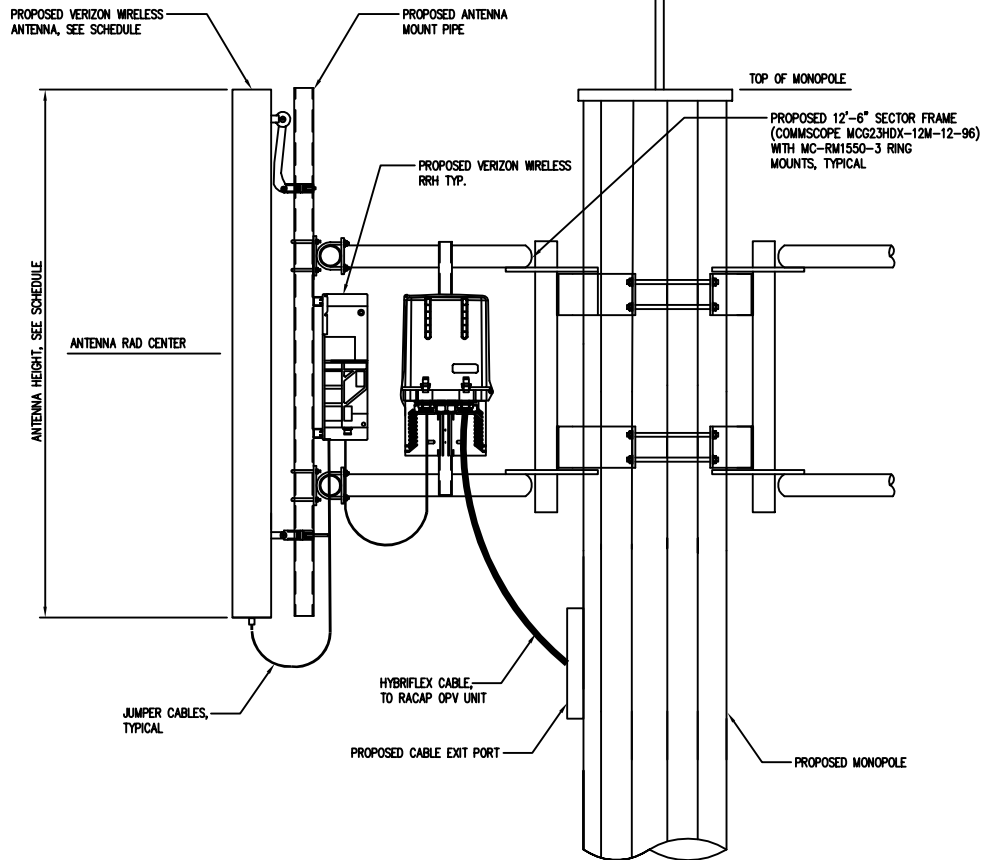
SITE DETAILS

SHEET NUMBER:
Z-5



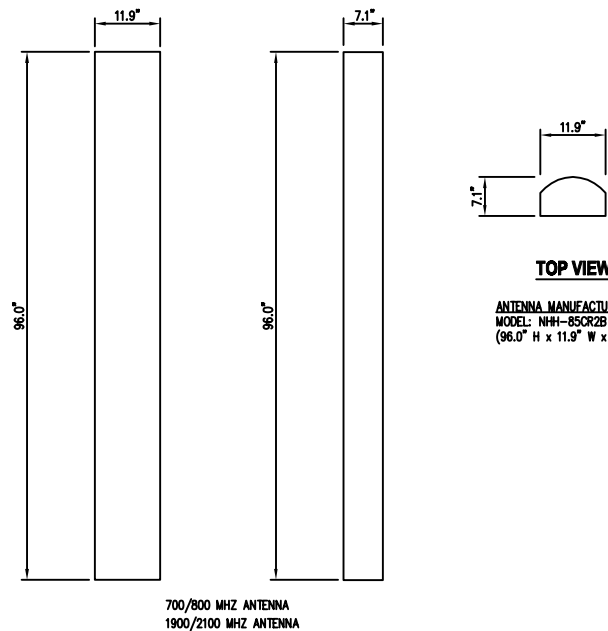
ANTENNA MOUNTING LAYOUT

SCALE: 1/2"=1'-0"



ANTENNA MOUNTING SECTION

SCALE: 3/4"=1'-0"



FRONT VIEW

SIDE VIEW

ANTENNA DETAILS

SCALE: 3/4"=1'-0"



ANTENNA AND CABLE SCHEDULE

ANTENNA SECTOR	ANTENNA MARK	RAD CENTER	ANTENNA	MECHANICAL DOWN	AZMUTH	CABLE LENGTH NOTE 5	COAXIAL CABLE SIZE	COLOR CODE	FREQUENCY
ALPHA	# 1	-	-	-	-	-	-	-	-
	# 2	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	SEE NOTE 6	30'	185'	1 1/4" HYBRIFLEX	G/R/G R	700 MHZ 850 MHZ
	# 3	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	-	30'	185'	SHARED HYBRIFLEX	Br/R/Br O/R/O	1900 MHZ 2100 MHZ
	# 4	-	-	-	-	-	-	-	-
BETA	# 5	-	-	-	-	-	-	-	-
	# 6	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	-	150'	185'	1 1/4" HYBRIFLEX	G/B/G B	700 MHZ 850 MHZ
	# 7	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	-	150'	185'	SHARED HYBRIFLEX	Br/R/Br O/B/O	1900 MHZ 2100 MHZ
GAMMA	# 8	-	-	-	-	-	-	-	-
	# 9	-	-	-	-	-	-	-	-
	# 10	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	-	270'	185'	1 1/4" HYBRIFLEX	G/Y/G Y	700 MHZ 850 MHZ
	# 11	160'	NHH-85C-R2B (96.0" H x 11.9" W x 7.1" D)	-	270'	185'	SHARED HYBRIFLEX	Br/Y/Br O/Y/O	1900 MHZ 2100 MHZ
GPS	# 12	-	-	-	-	-	-	-	-
	-	-	MAXRAD GPS-TMG-HR26NMSCLA (2) REQUIRED	-	-	-	1/2"	-	-

NOTES:

1. ALL ANTENNAS SHALL BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWNTILT SHALL BE SET AND VERIFIED BY A SMART LEVEL.
2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'.
3. FINAL CABLE LENGTHS SHALL BE DETERMINED AFTER INSTALLATION.
4. COORDINATE THE ANTENNA DOWNTILT WITH THE RF ENGINEER.
5. THE CABLE LENGTHS SHOWN ARE THE ACTUAL COMPUTED LENGTHS WITH NO OVERAGE ALLOWANCE.
6. REFER TO THE APS FOR THE ANTENNA DOWNTILT REQUIREMENTS.

CABLE MINIMUM BEND RADIUS

7/8" RF	1-1/4" RF	1-5/8" RF	2-1/4" RF	1.1" HYBRIFLEX
10"	15"	20"	22"	10"

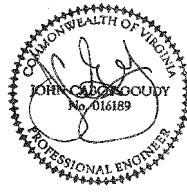


6600 Rockledge Drive, Suite 550
BETHESDA, MD 20817
PHONE: (202)408-0960
FAX: (202)408-0961

SUBMITTALS

DATE	DESCRIPTION	REV.
01-20-20	ZONING REVIEW	
02-06-20	ZONING	

SEAL:



Milestone
COMMUNICATIONS

PROJECT NO: 1050.287

DESIGNER: M.A.

ENGINEER: M.M.

SCALE:

0 1/2 1
GRAPHIC SCALE IN INCHES

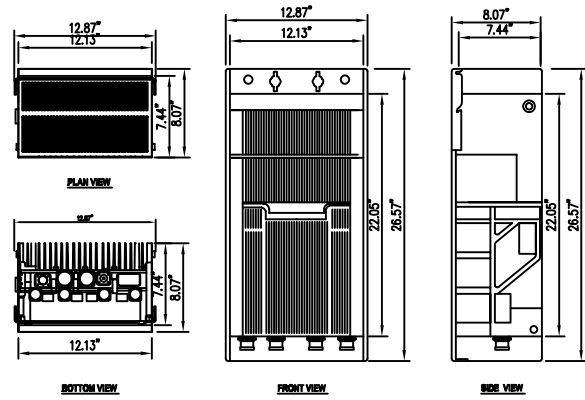
WIDEWATER
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

VZW ANTENNA
SCHEDULE
AND DETAILS

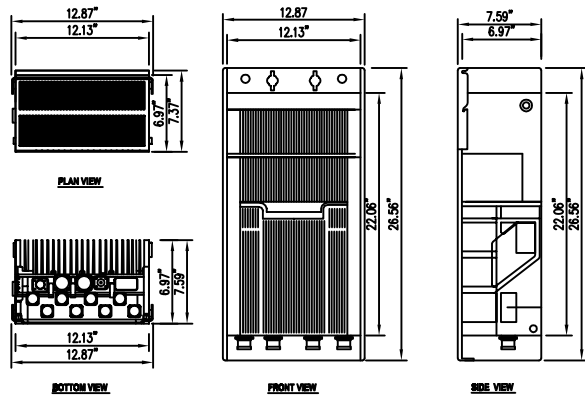
SHEET NUMBER:

Z-6



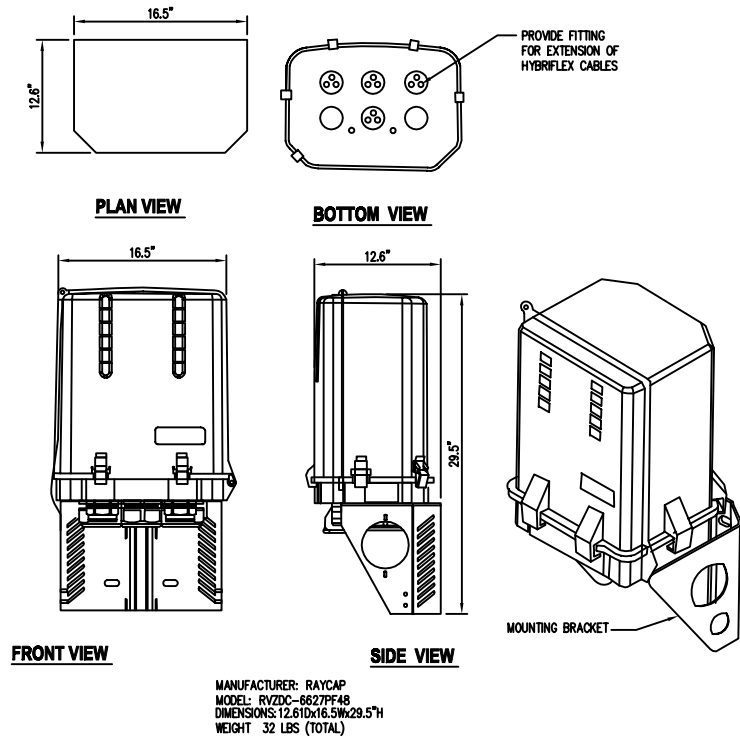
700 MHz AND 850 MHz
AHFC AIRSCALE DUAL RRH 4T4R B5/13 320W
SCALE: 1-1/2"=1'-0"

1
Z-7



1900 MHz AND 2100 MHz
AHFC AIRSCALE DUAL RRH 4T4R B2/66a 320W
SCALE: 1-1/2"=1'-0"

2
Z-7



MANUFACTURER: RAYCAP
MODEL: RVZDC-6627PF48
DIMENSIONS: 12.61x16.51x29.51
WEIGHT: 32 LBS (TOTAL)

MAIN DISTRIBUTION BOX DETAILS
SCALE: 1-1/2"=1'-0"

3
Z-7



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02-06-20	ZONING	

SEAL:



Milestone
COMMUNICATIONS

PROJECT NO: 1050.287
DESIGNER: M.A.
ENGINEER: M.M.

SCALE:



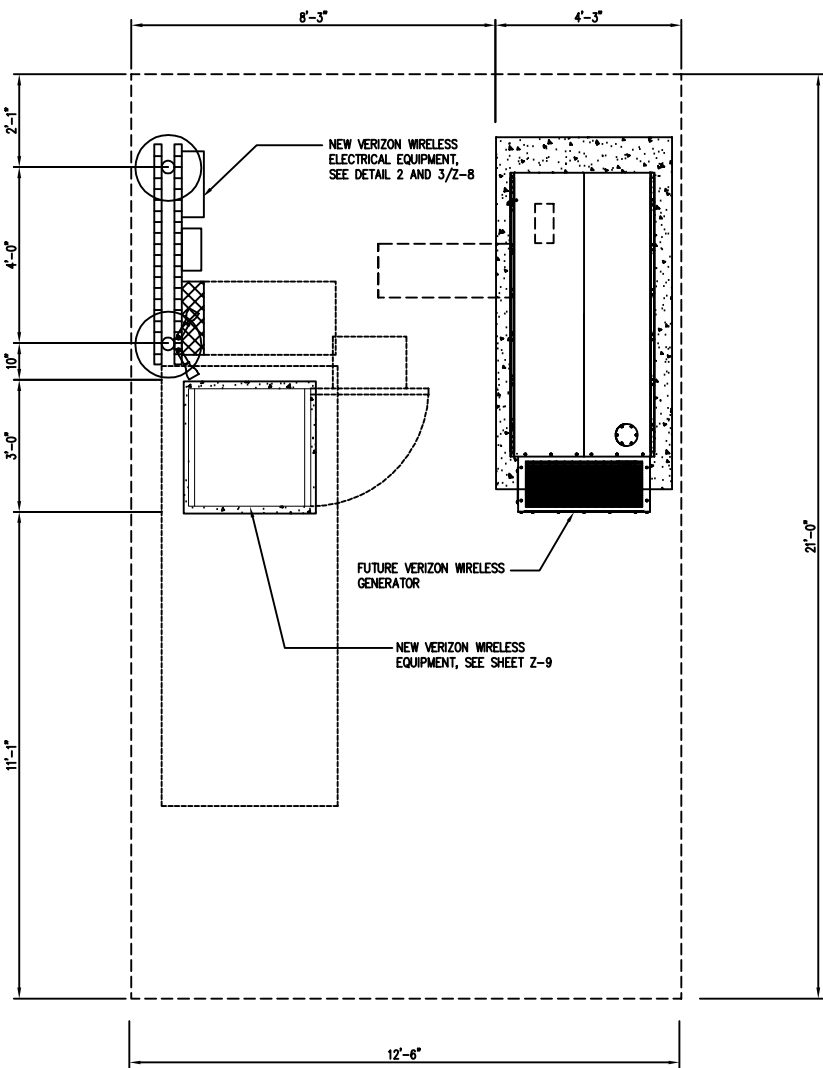
WIDewater
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

VZW RRH AND
DISTRIBUTION
BOX DETAILS

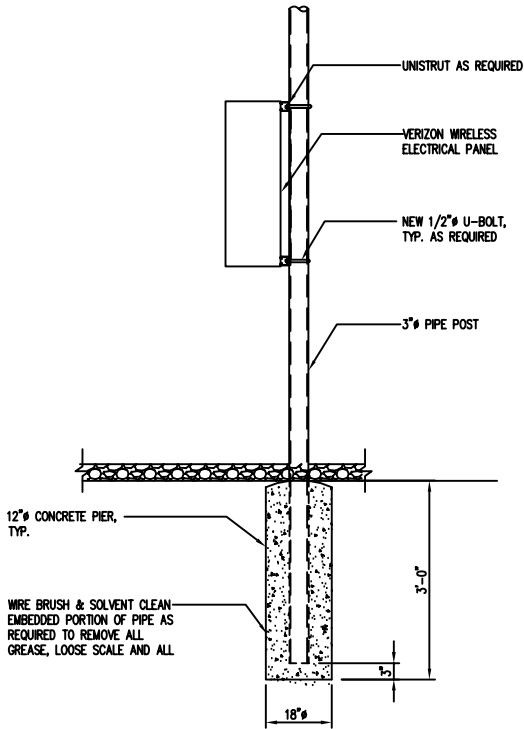
SHEET NUMBER:

Z-7



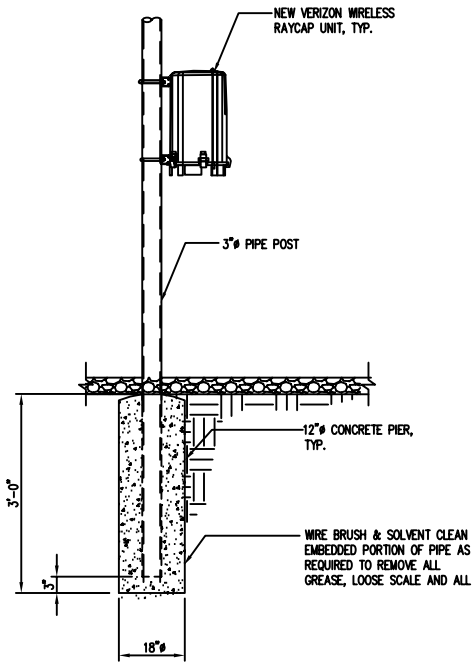
EQUIPMENT LAYOUT PLAN
SCALE: 1/2"=1'-0"

1
Z-8



EQUIPMENT SUPPORT POST ELEVATION
SCALE: 3/4"=1'-0"

2
Z-8



EQUIPMENT SUPPORT POST ELEVATION
SCALE: 3/4"=1'-0"

3
Z-8

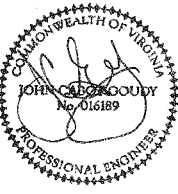


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DATE	DESCRIPTION	REV.
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02-06-20	ZONING	

SEAL:



Milestone
COMMUNICATIONS

PROJECT NO: 1050.287
DESIGNER: M.A.
ENGINEER: M.M.

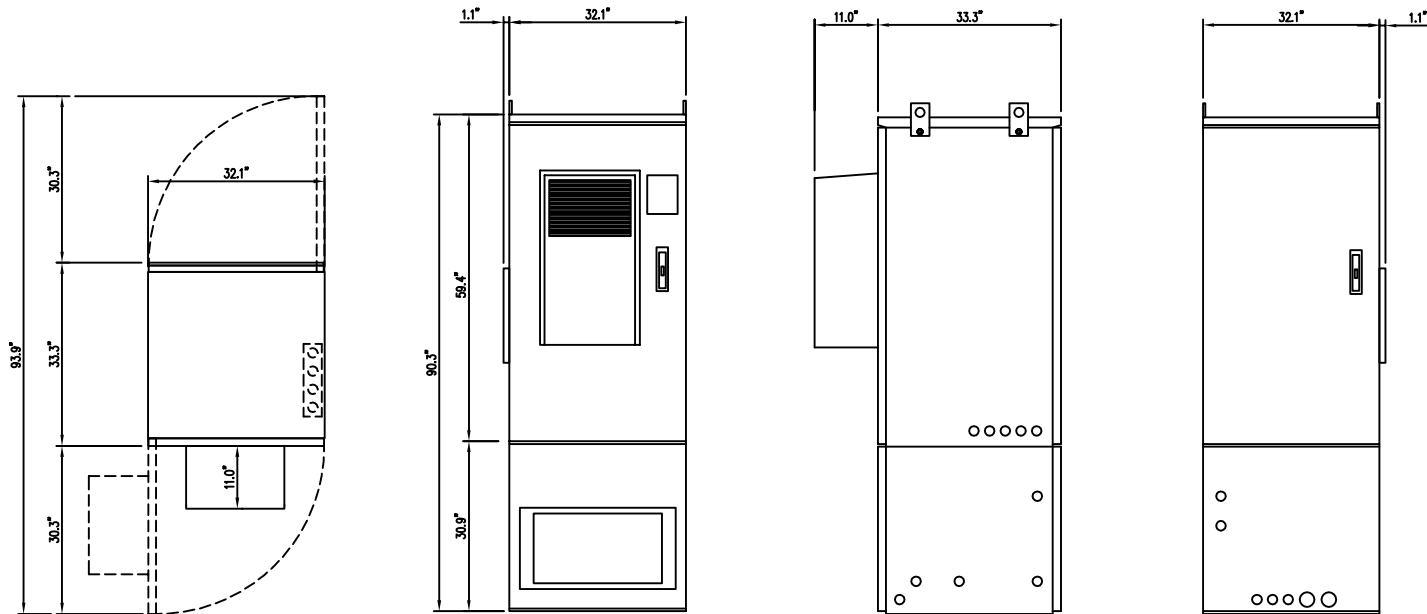
SCALE:
0 1/2 1
GRAPHIC SCALE IN INCHES

WIDewater
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

VZW EQUIPMENT
LAYOUT AND DETAILS

SHEET NUMBER:
Z-8



PLAN VIEW

FRONT VIEW

RIGHT SIDE VIEW

REAR VIEW

MODEL: CUBE-SSX023100X
CABINET WEIGHT EMPTY = ±250 LBS
CABINET WEIGHT WITH EQUIPMENT = ± 1000 LBS

CHARLES CUBE BROADBAND ENCLOSURE

SCALE: 1/2"=1'-0"

1
Z-9

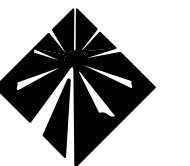
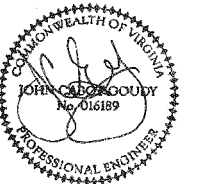


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SUBMITTALS

DATE	DESCRIPTION	REV.
01-20-20	ZONING REVIEW	
02-06-20	ZONING	

SEAL:



Milestone
COMMUNICATIONS

PROJECT NO:	1050.287
DESIGNER:	M.A.
ENGINEER:	M.M.

SCALE:



WIDEWATER
134 DEN RICH ROAD
STAFFORD COURTHOUSE,
VA 22554

TITLE:

VZW EQUIPMENT
CABINET DETAILS

SHEET NUMBER:

Z-9