

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. A CLEAR MISS UTILITY TICKET IS REQUIRED BEFORE ANY WORK IS PERFORMED.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED OUTSIDE OF THE LIMIT OF DISTURBANCE.
- THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NOS. 31AB AND 31A3 WERE USED FOR THIS PROJECT.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH (MAXIMUM 2 FT.) CONTOUR INTERVALS PREPARED BY ENTREX COMMUNICATION SERVICES, INC. DATED JULY 9, 2014
- SEWER SERVICE IS NOT PROPOSED AT THIS SITE.
- STORMWATER MANAGEMENT IS NOT REQUIRED PER THE MARYLAND STORMWATER DESIGN MANUAL (REVISED MAY 2009) AS THIS PROJECT DISTURBS LESS THAN 5,000 SF.
- THE BOUNDARY AND TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD SURVEY BY ENTREX COMMUNICATION SERVICES INC. DATED JULY 9, 2014.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS SITE AS THE PROPOSED SITE WILL BE UNOCCUPIED WITH INFREQUENT VISITS (ONE PER MONTH).
- CONTRACTOR IS RESPONSIBLE FOR ALL SITE CONDITIONS, CONSTRUCTION REQUIREMENTS, AND SHALL CONFORM TO ALL STATE, FEDERAL AND COUNTY CONSTRUCTION REGULATIONS. THE CONTRACTOR IS NOT RELIEVED OF RESPONSIBILITY SHOULD ANY REQUIRED ITEMS PERTAINING TO SITE CONSTRUCTION NOT BE INCLUDED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS AS SHOWN ON THESE PLANS.
- A FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY ENTREX COMMUNICATION SERVICES, INC. DATED SEPTEMBER 23, 2015. THERE IS NO FLOODPLAIN ON THIS SITE.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY GEO-TECHNOLOGY ASSOCIATES, INC. DATED FEBRUARY 1 2016. THERE ARE NO WETLANDS ON THIS SITE.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PROPERTY MONUMENTS, MARKERS, SIGNS, LIGHTS, OR ANY OTHER EXISTING SITE FEATURES DISTURBED DURING CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY THE WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE, AND STATE SOIL CONSERVATION COMMITTEE.
- THE SUBJECT PROPERTY IS ZONED R-20 IN ACCORDANCE WITH THE OCTOBER 6, 2013 COMPREHENSIVE ZONING REGULATIONS.
- THIS PLAN IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION, PER SECTION 16.1202 (B)(1)(X)) FOR CUTTING OR CLEARING OF PUBLIC UTILITY RIGHT-OF-WAY LICENSED UNDER ARTICLE 78 OF THE ANNOTATED CODE OF MARYLAND.
- A GEO-TECHNICAL STUDY WAS NOT CONDUCTED FOR THIS SITE.
- ALL COMPACTED FILL SHALL BE IN ACCORDANCE WITH AASHTO T -160 REQUIREMENTS.
- THE COMMUNICATION SITE WILL HAVE LED SERVICE LIGHTS UNDER THE EQUIPMENT CANOPY.
- THERE ARE NO NATURAL STEEP SLOPES (25% OR >), WITHIN THE PROJECT AREA.
- TRASH DISPOSAL IS NOT REQUIRED AS THE PROPOSED FACILITY IS TO BE UNOCCUPIED.
- THE PROPOSED DEVELOPMENT SHOWN IN THIS PLAN INCLUDES THE INSTALLATION OF A 12'X17' EQUIPMENT SLAB AT GRADE WITH CANOPY THAT WILL BE FENCED IN FOR SECURITY PURPOSES. TWELVE (12) ANTENNAS WILL BE INSTALLED ON A FORT WORTH TOWER WITHIN AN EXISTING BGE TRANSMISSION TOWER. THE PROPOSED FACILITY WILL BE UNOCCUPIED, WITH INFREQUENT VISITS, (ONE PER MONTH).
- THE APPLICANT SHALL BE RESPONSIBLE FOR THE PERMITTING OF THIS WORK WITH HOWARD COUNTY PRIOR TO CONSTRUCTION.
- THIS PLAN HAS PROPOSES 120 LINEAR FEET OF FENCING TO SATISFY THE LANDSCAPING REQUIREMENTS OF SECTION 16.1204 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SEE SHEET 12 FOR FENCE DETAILS AND ELEVATIONS. BGE HAS REQUESTED THAT NO PLANTINGS BE REQUIRED WITHIN THEIR UTILITY LINE PARCELS.
- THE CONTIGUOUS PARCELS SHOWN ON THIS PLAN (WITHIN THE BGE RIGHT-OF-WAY) ARE BEING DEVELOPED AS AN INTEGRATED DEVELOPMENT BY VERIZON WIRELESS IN ACCORDANCE WITH SECTION 128.0.A.10 OF THE ZONING REGULATIONS.
- THE DIVISION OF PUBLIC SERVICE AND ZONING HAS DETERMINED THE SETBACKS LISTED IN SECTION 128.0.E.2 OF THE ZONING REGULATIONS DO NOT APPLY TO THIS PROJECT SINCE THE TOWER IS EXISTING.
- IN ACCORDANCE WITH SECTION 128.0.E.3 OF THE ZONING REGULATIONS, THE COMMUNICATION TOWER SHALL BE GRAY OR SIMILAR COLOR THAT MINIMIZES VISIBILITY UNLESS A DIFFERENT COLOR IS REQUIRED BY THE FCC OR THE FAA, NO SIGNALS OR LIGHTS SHALL BE PERMITTED ON TOWERS UNLESS REQUIRED BY THE FCC OR FAA, AND A COMMUNICATION TOWER THAT IS NO LONGER USED SHALL BE REMOVED FROM THE SITE WITHIN ONE YEAR OF THE DATE THAT THE USE CEASES.

ALTERNATIVE COMPLIANCE NOTE 1

ON APRIL 21, 2016, A WAIVER PETITION (WP-16-105) REQUESTING RELIEF FROM HOWARD COUNTY'S SUBDIVISION REGULATIONS, SECTIONS 16.115.(d), 16.157.(b),(11), 16.1201.(n), AND 16.1204.(c) WAS APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. THE PETITION APPROVAL GRANTED PERMISSION TO LIMIT THE FOLLOWING REQUIREMENTS FOR THE ENTIRE PROPERTY TO THE REVIEW AREA: DELINEATION OF FLOOD PLAINS; DELINEATION OF WETLANDS, WETLAND BUFFERS, STREAMS, AND STREAM BUFFERS, DELINEATION OF STEEP SLOPES, FOREST RESOURCES, AND FOREST STAND DELINEATION. THE APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

- AT THE TIME OF SUBMISSION OF THE REQUIRED ENVIRONMENTAL CONCEPT PLAN (ECP) AND THE SITE DEVELOPMENT PLAN (SDP), THE APPLICANT SHALL DELINEATE EXISTING ENVIRONMENTAL FEATURES INCLUDING FLOODPLAIN, WETLANDS, WETLAND BUFFERS, STREAMS AND STREAM BUFFERS, STEEP SLOPES AND FOREST RESOURCES LOCATED WITHIN THE PROPOSED 0.49± ACRE LIMIT OF DISTURBANCE/REVIEW AREA.
- NO DISTURBANCE IS PERMITTED BEYOND THE 0.49± ACRE LIMIT OF DISTURBANCE SHOWN AS THE REVIEW AREA ON THE WAIVER PETITION EXHIBIT, WP-16-105.
- THE 0.49± ACRE REVIEW AREA, WHICH COINCIDES WITH THE LIMIT OF DISTURBANCE, SHALL BE THE GROSS SITE AREA FOR THE PURPOSE OF CALCULATING THE FOREST CONSERVATION OBLIGATION AND FOR THE PROPOSED LIMITED DEVELOPMENT OF THE SITE.
- COMPLIANCE WITH ALL SRC AGENCY COMMENTS GENERATED WITH THE REVIEW OF THE ENVIRONMENTAL CONCEPT AND SITE DEVELOPMENT PLANS FOR THE PROPOSED LIMIT OF DISTURBANCE FOR THE SITE.
- ON ALL PLANS AND APPLICATIONS FOR ALL APPLICABLE PERMITS, PROVIDE AS A GENERAL NOTE A BRIEF DESCRIPTION OF THIS WAIVER PETITION, WP-16-105, WHICH INCLUDES THE REQUESTED SECTIONS OF THE REGULATIONS, DATE, ACTION TAKEN, AND CONDITIONS FOR APPROVAL.

ALTERNATIVE COMPLIANCE NOTE 2

ON SEPTEMBER 21, 2017, AN ALTERNATIVE COMPLIANCE (WP-18-027) REQUESTING RELIEF FROM HOWARD COUNTY'S SUBDIVISION REGULATIONS, SECTIONS 16.156.(g)(2), WAS APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. THE ALTERNATIVE COMPLIANCE STATES THAT IF THE DEPARTMENT OF PLANNING AND ZONING COMMITTEE INDICATES THAT ADDITIONAL INFORMATION IS NEEDED IN ORDER TO DECIDE WHETHER TO APPROVE THE PLAN, THE DEVELOPER SHALL PROVIDE THE INFORMATION WITHIN 45 DAYS OF RECEIVING SUCH INDICATION. THE APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

- SDP-16-073 MUST BE RESUBMITTED WITHIN 45 DAYS FROM THE DATE OF THE ALTERNATIVE COMPLIANCE APPROVAL LETTER (ON OR BEFORE NOVEMBER 5, 2017).
- PLEASE ADD THE FILE NUMBER, SECTION, DECISION, DATE OF DECISION AND ANY CONDITIONS OF APPROVAL AS A GENERAL NOTE ON SDP-16-073 AND ALL RELATED PLANS.

GENERAL NOTE

THE SITE TOTAL DISTURBED AREA WAS REDUCED TO 3,317 SF (0.076 AC) IN THIS SDP REVISION 08-22-17 BECAUSE STORMWATER MANAGEMENT FACILITIES WERE NOT PERMITTED ON THE PROPERTY.

SITE ANALYSES DATA CHART

1. APPLICABLE DPZ FILE REFERENCES:	ECP-15-049, WP-16-105 AND WP-18-027
2. TOTAL PROJECT AREA:	3,317 SF (0.076 AC)
3. AREA OF PLAN SUBMISSION:	3,317 SF (0.076 AC)
4. TOTAL SITE PARCEL ACREAGE:	6.35 AC
5. LIMIT OF DISTURBANCE:	3,317 SF (0.076 AC)
6. PRESENT ZONING:	UNOCCUPIED TELECOMMUNICATION FACILITY
7. PROPOSED USE:	NONE
8. WETLANDS:	NONE
9. FLOOD PLAINS:	NONE
10. FORESTS:	NONE
11. STEEP SLOPES:	NONE
12. ERODIBLE SOILS:	NONE

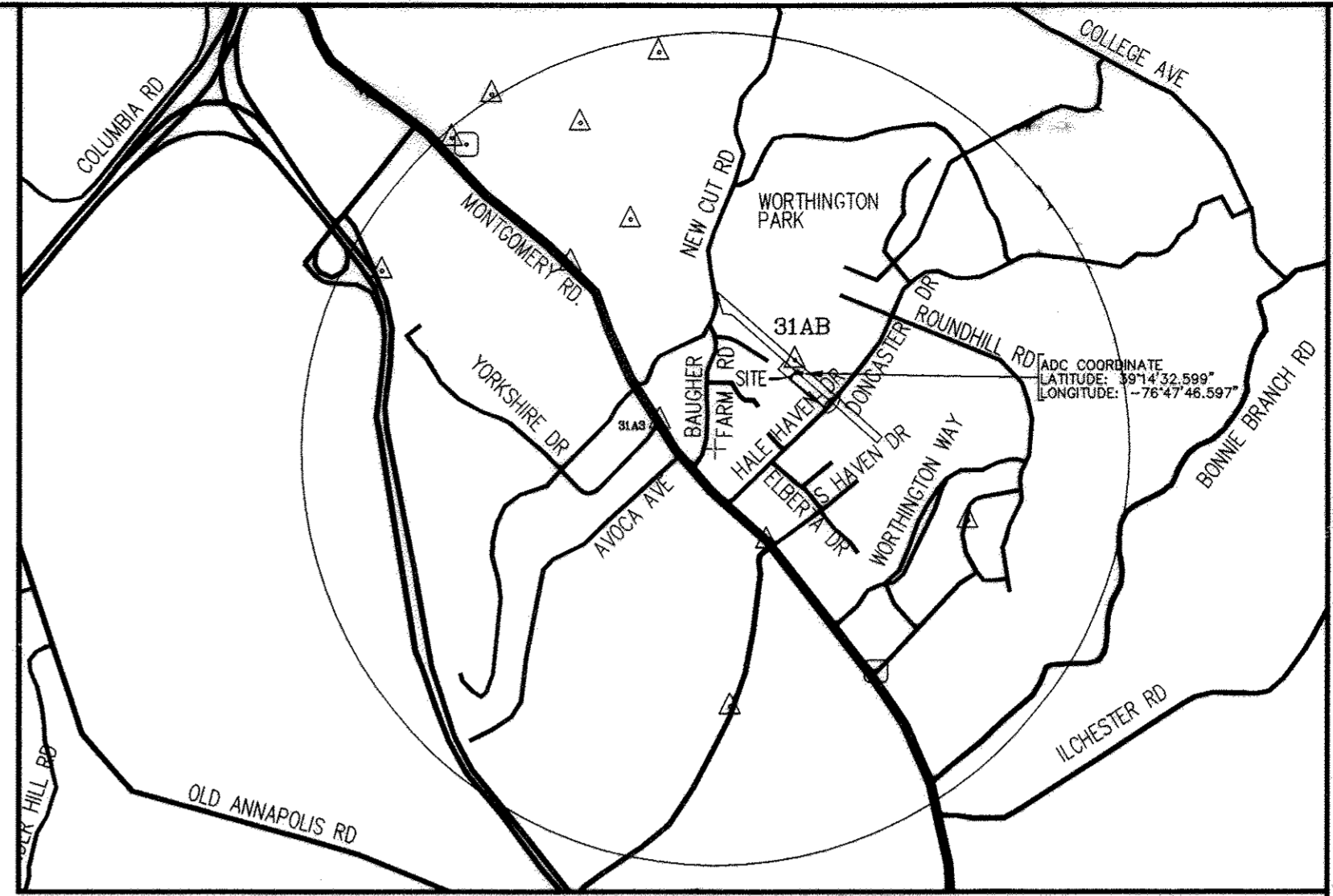
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Robinson 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION
J. Murchio for KCS 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT
William J. Miller 2-9-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING

ABBREVIATIONS AND SYMBOLS

ADJ	ADJUSTABLE	GB	GROUND BAR	TOC	TOP OF CONCRETE	◆	SPOT ELEVATION
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	TOM	TOP OF MASONRY	⊕	CENTERLINE
CAB	CABINET	GRD	GROUND	TYP	TYPICAL	—	PROPERTY LINE
CLG	CEILING	LG	LONG LEG HORIZONTAL	VF	VERIFY IN FIELD	⊘	DETAIL NUMBER
CONC	CONCRETE	LLH	LONG LEG HORIZONTAL	UON	UNLESS OTHERWISE NOTED	⊙	SHEET NUMBER
CONT	CONTINUOUS	MAX	MAXIMUM	WWF	WELDED WIRE FABRIC	—	GROUND WIRE
CJ	CONSTRUCTION JOINT	MECH	MECHANICAL	W/	WITH	—	COAXIAL CABLE
DIA	DIAMETER	MFR	MANUFACTURER	&	AND	⊖	ANTENNA
DWG	DRAWING	MGB	MAIN GROUND BAR	⊙	AT		
EGS	EQUIPMENT GROUND BAR	MIN	MINIMUM				
EA	EACH	MTL	METAL				
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT				
EL	ELEVATION	NTS	NOT TO SCALE				
EQ	EQUAL	OC	ON CENTER				
EQUIP	EQUIPMENT	OPP	OPPOSITE				
(E)	EXISTING	SF	SQUARE FOOT				
EXT	EXTERIOR	SHT	SHEET				
FF	FINISHED FLOOR	SIM	SIMILAR				
GA	GAGE	SS	STAINLESS STEEL				
GALV	GALVANIZED	STL	STEEL				

SITE DEVELOPMENT PLAN SDP-16-073 VERIZON WIRELESS NEW CUT BGE TOWER 281A 4646 DONCASTER DRIVE ELLICOTT CITY, MD 21043 HOWARD COUNTY



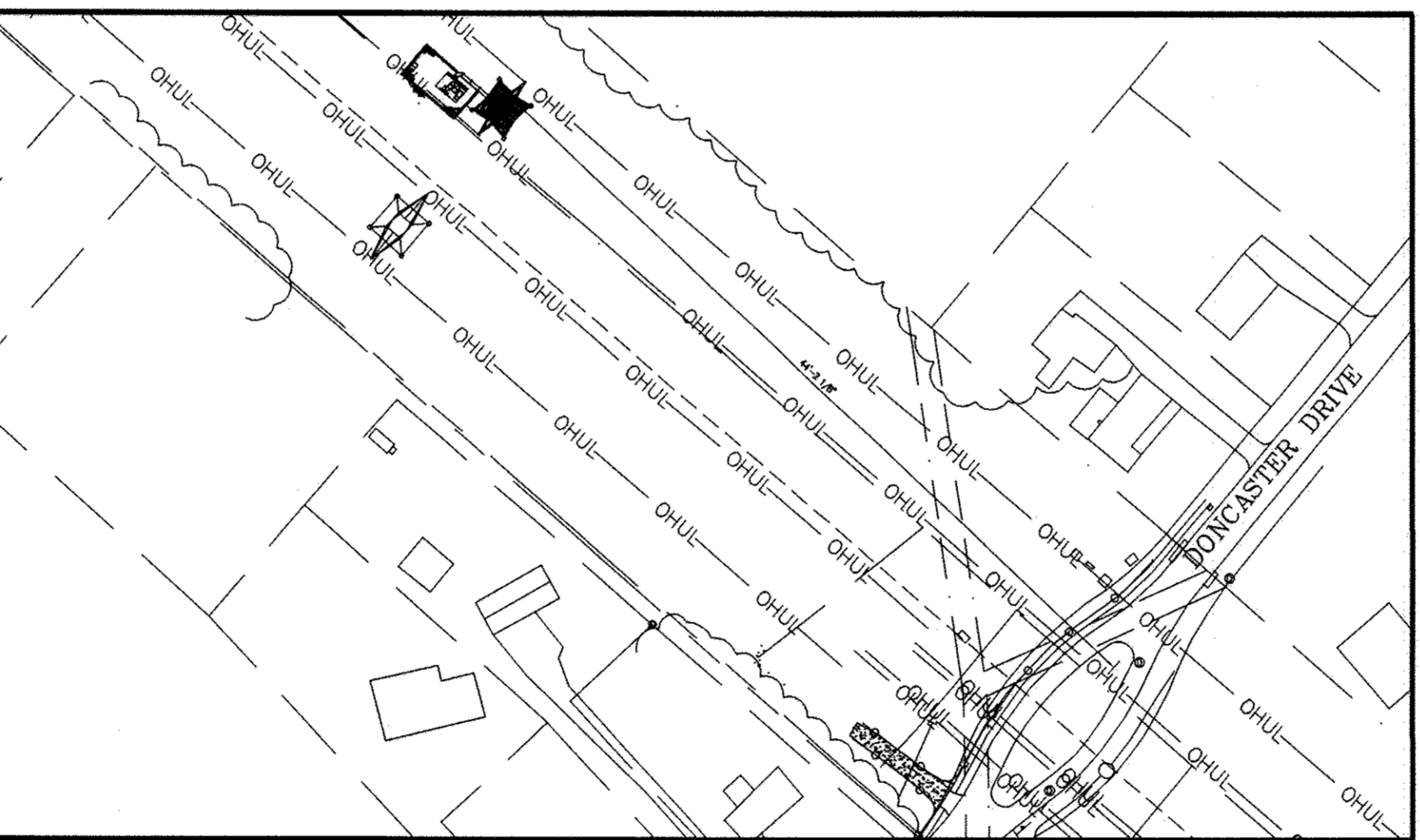
ADC MAP REFERENCE
MAP 28 GRID B-5

VICINITY MAP
SCALE: 1"=2000'



ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 557	4646 DONCASTER DRIVE, ELLICOTT CITY, MD 21043

PERMIT INFORMATION BLOCK				
SUBDIVISION NAME		SECTION/AREA	LOT/PARCEL NO.	
VERIZON WIRELESS		NEW CUT - BGE TOWER 281A	PARCEL 557	
PLAT # OR L/F	GRID #	ZONING	TAX MAP NO.	ELECT. DISTRICT
DB: L. RHM 348 F. 105		R20	31	2
WATER CODE		SEWER CODE		



LOCATION MAP
SCALE: 1"=100'



CONSTRUCTION NOTES

- CONTRACTOR SHALL NOTIFY "MISS UTILITY" (811) 48 HOURS PRIOR TO DOING ANY EXCAVATION IN THIS AREA. CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS BY TEST PIT AS NECESSARY. LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. DAMAGE TO UTILITIES OR PROPERTY OF OTHER BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. THE LATEST EDITION THEREOF.
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS.
- THESE PLANS ARE NOT FOR RECORDATION.
- EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.

SHEET INDEX

- TITLE SHEET
- SITE PLAN
- EROSION AND SEDIMENT CONTROL PLANS
- EROSION AND SEDIMENT CONTROL DETAILS AND NOTES
- COMPOUND PLAN
- TOWER ELEVATION
- ANTENNA LAYOUT, SECTION, DETAILS AND SCHEDULE
- RADIO HEAD DETAILS
- EQUIPMENT AND EQUIPMENT SLAB DETAILS
- EQUIPMENT ELEVATIONS
- EQUIPMENT DETAILS
- SITE DETAILS
- SITE DETAILS

SITE NOTES

- RING NAME: NEW CUT
- THIS IS NOT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY.
- THE SUBJECT PARCEL INFORMATION:
OWNER: BALTIMORE GAS & ELECT CO
PREMISES ADDRESS: 4646 DONCASTER DRIVE
ELLICOTT CITY, MD 21043
MAILING ADDRESS: POB 1475
BALTIMORE, MD 21203
COUNTY: HOWARD COUNTY
MAP: 31, GRID 00, PARCEL: N/A
ELECTION DISTRICT NO: 2
ZONING: R20 USE: INDUSTRIAL
- THE RECORDED REFERENCES FOR THE SUBJECT PARCEL ARE AS FOLLOWS:
DEED: LIBER 348, FOLIO 105
AREA: 6.35 ACRES
- THE DATUM'S ARE NAD 83 AND NAVD 88, AND THE BEARING BASE IS STATE GRID.
- NO UNDERGROUND UTILITIES HAVE BEEN LOCATED, THE PRESENCE OF ANY SUCH UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- 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.
- THE FLOOD ZONE OF THE PROPERTY IS AS FOLLOWS; FLOOD ZONE X, AREA OF DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. SOURCE, FEMA FLOOD MAP FOR HOWARD COUNTY, MD. COMMUNITY PANEL NUMBER 24027C 0160D. EFFECTIVE, NOVEMBER 6, 2013.
- A TITLE REPORT WAS REVIEWED FOR THIS PROPERTY.
- THE DATA COLLECTED AND SHOWN ON THIS DRAWING ARE FOR THE PURPOSES OF CONSTRUCTION OF A CELLULAR COMMUNICATION SITE, ANY NECESSARY ANCILLARY EQUIPMENT AND ALL APPROPRIATE EASEMENTS.
- NO UNRECORDED EASEMENTS ARE SHOWN ON THIS SURVEY AND IT IS POSSIBLE THAT SUCH EASEMENTS IMPACT THE SITE.
- THIS PROPERTY IS SUBJECT TO ALL MATTERS OF PUBLIC RECORD.
- THE LOCATION OF THE PROPOSED FWT TOWER EXTENSION IS AS FOLLOWS; THE VALUES LISTED BELOW ARE WITHIN ±50' HORIZONTAL AND ±20' VERTICAL.
LATITUDE: N 39° 14' 32.599"
LONGITUDE: W 76° 47' 46.597"
ELEVATION: 497.32' AMSL AT BASE



6500 Rockledge Drive, Suite 550
Bethesda, MD 20817
PHONE: (202)408-0960
FAX: (202)408-0961



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 12915, Expiration Date: 04/03/2018

VERIZON WIRELESS
9000 JUNCTION DRIVE
ANNAPOLIS JUNCTION, MD 20701
PHONE: (301) 512-2000

verizon
 NEW CUT - BGE TOWER 281A
 4646 DONCASTER DRIVE
 ELLICOTT CITY, MD 21043
 ZONED: R20 TAX MAP: 31 PARCEL: N/A
 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

NO.	DESCRIPTION	DATE
SDP	11-20-17	
SDP	11-16-17	
SDP	08-22-17	

LAST REV.: 08-22-17
PROJECT NO: T102.211

DATE: AUG. 22, 2017

SCALE: AS NOTED

TITLE: TITLE SHEET

SHEET: 1 of 13
SDP-16-073



SITE PLAN
SCALE: 1" = 1000'



SITE INFORMATION

- 1.) SITE NAME: NEW CUT- BGE TOWER 281A
SEARCH RING: NEW CUT
- 2.) THIS IS NOT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY.
- 3.) THE SUBJECT PARCEL INFORMATION:
OWNER: BALTIMORE GAS & ELECTRIC COMPANY
PREMISES ADDRESS: 4646 DONCASTER DR.
ELlicott CITY, MD 21043

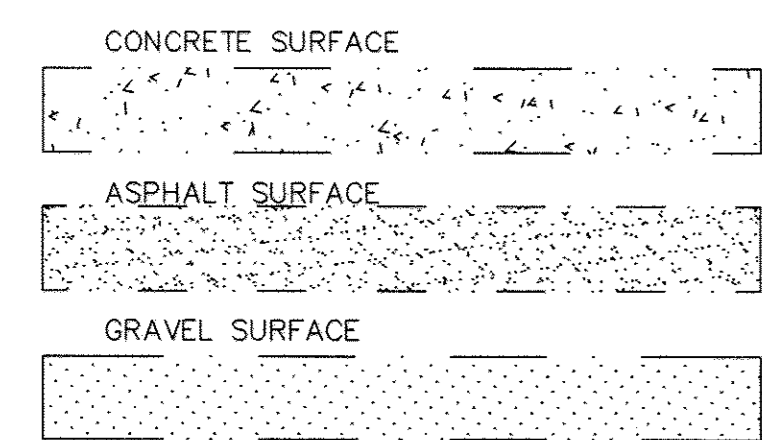
MAILING ADDRESS: PO BOX 1475
BALTIMORE, MD 21203-1475
COUNTY: HOWARD COUNTY
DISTRICT: 01, ACCOUNT # N/A
USE: UTILITY
DEED BOOK: RHM 348 PAGE: 105
MAP: 0031/ GRID:0000/ PARCEL: N/A
- 4.) THERE ARE NO WELLS OR SEPTIC FIELD ON THE PROPERTY.

LINE TYPES

- BOUNDARY LINE - PARENT PARCEL
- UNSURVEYED LINE - BOUNDARY OF ADJOINERS
- CENTER LINE
- CONSERVATION EASEMENT
- BUILDING SET BACK
- EDGE OF ASPHALT
- FENCE LINE - CHAIN
- 1' CONTOUR LINE
- 5' CONTOUR LINE
- TREE OR VEGETATION LINE

LEGEND

- FOUND PROPERTY CORNER
- UTILITY POLE
- ⊥ GUY ANCHOR
- ⊕ SIGN
- ☆ LIGHT POLE
- ⊙ SANITARY MANHOLE
- ⊙ INDIVIDUAL TREE - DECIDUOUS

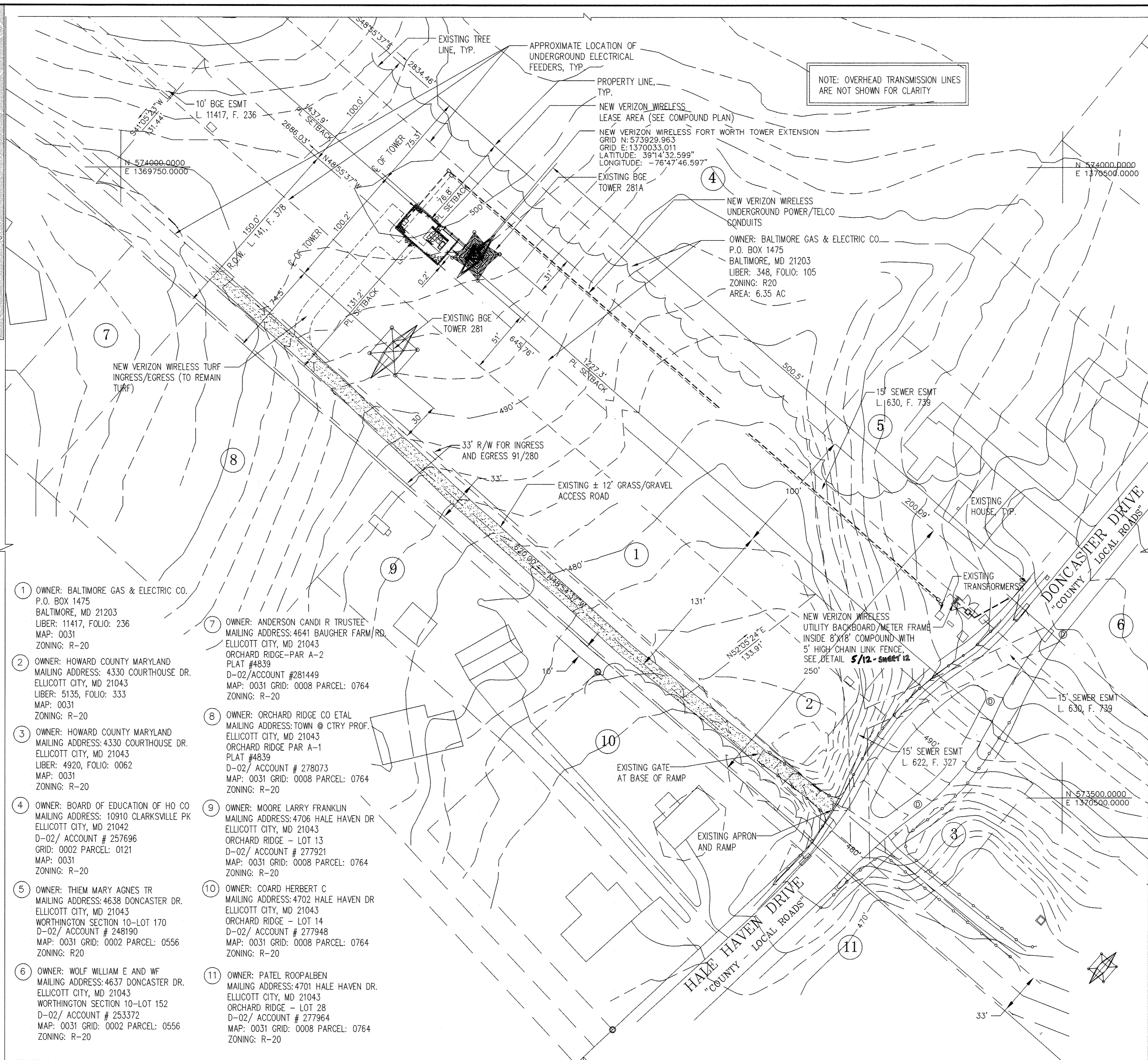


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Edmon 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION ✓ DATE

J. Manda FIS 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT ✓ DATE

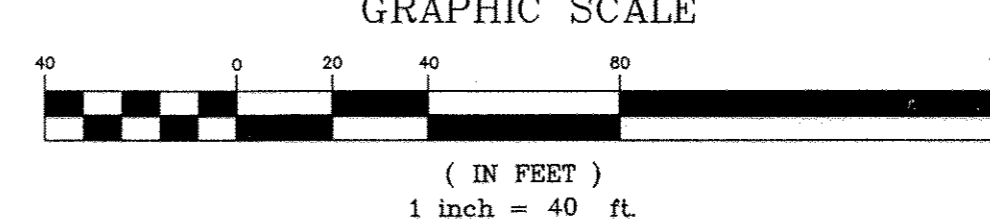
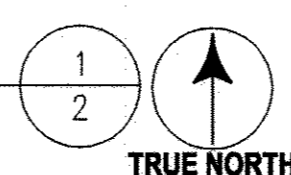
Nadia Zew 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE



1. OWNER: BALTIMORE GAS & ELECTRIC CO.
P.O. BOX 1475
BALTIMORE, MD 21203
LIBER: 11417, FOLIO: 236
MAP: 0031
ZONING: R-20
2. OWNER: HOWARD COUNTY MARYLAND
MAILING ADDRESS: 4330 COURTHOUSE DR.
ELlicott CITY, MD 21043
LIBER: 5135, FOLIO: 333
MAP: 0031
ZONING: R-20
3. OWNER: HOWARD COUNTY MARYLAND
MAILING ADDRESS: 4330 COURTHOUSE DR.
ELlicott CITY, MD 21043
LIBER: 4920, FOLIO: 0062
MAP: 0031
ZONING: R-20
4. OWNER: BOARD OF EDUCATION OF HO CO
MAILING ADDRESS: 10910 CLARKSVILLE PK
ELlicott CITY, MD 21042
D-02/ ACCOUNT # 257696
GRID: 0002 PARCEL: 0121
MAP: 0031
ZONING: R-20
5. OWNER: THEM MARY AGNES TR
MAILING ADDRESS: 4638 DONCASTER DR.
ELlicott CITY, MD 21043
WORTHINGTON SECTION 10-LOT 170
D-02/ ACCOUNT # 248190
MAP: 0031 GRID: 0002 PARCEL: 0556
ZONING: R20
6. OWNER: WOLF WILLIAM E AND WF
MAILING ADDRESS: 4637 DONCASTER DR.
ELlicott CITY, MD 21043
WORTHINGTON SECTION 10-LOT 152
D-02/ ACCOUNT # 253372
MAP: 0031 GRID: 0002 PARCEL: 0556
ZONING: R-20
7. OWNER: ANDERSON CANDI R TRUSTEE
MAILING ADDRESS: 4641 BAUGHER FARM/RD.
ELlicott CITY, MD 21043
ORCHARD RIDGE-PAR A-2
PLAT #4839
D-02/ ACCOUNT #281449
MAP: 0031 GRID: 0008 PARCEL: 0764
ZONING: R-20
8. OWNER: ORCHARD RIDGE CO ETAL
MAILING ADDRESS: TOWN @ CTRY PROF.
ELlicott CITY, MD 21043
ORCHARD RIDGE PAR A-1
PLAT #4839
D-02/ ACCOUNT # 278073
MAP: 0031 GRID: 0008 PARCEL: 0764
ZONING: R-20
9. OWNER: MOORE LARRY FRANKLIN
MAILING ADDRESS: 4706 HALE HAVEN DR
ELlicott CITY, MD 21043
ORCHARD RIDGE - LOT 13
D-02/ ACCOUNT # 277921
MAP: 0031 GRID: 0008 PARCEL: 0764
ZONING: R-20
10. OWNER: COARD HERBERT C
MAILING ADDRESS: 4702 HALE HAVEN DR
ELlicott CITY, MD 21043
ORCHARD RIDGE - LOT 14
D-02/ ACCOUNT # 277948
MAP: 0031 GRID: 0008 PARCEL: 0764
ZONING: R-20
11. OWNER: PATEL ROOPALBEN
MAILING ADDRESS: 4701 HALE HAVEN DR.
ELlicott CITY, MD 21043
ORCHARD RIDGE - LOT 28
D-02/ ACCOUNT # 277964
MAP: 0031 GRID: 0008 PARCEL: 0764
ZONING: R-20

SITE PLAN

SCALE: 1" = 40'



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



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12913, Expiration Date: 04/03/2018

VERIZON WIRELESS
9000 JUNCTION DRIVE
ANNAPOLIS JUNCTION, MD 20701
PHONE: (301) 512-2000

verizon
NEW CUT- BGE TOWER 281A
4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
ELlicott CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

SUBMISSIONS/REVISIONS:

NO.	DESCRIPTION	DATE
SDP	11-20-17	
SDP	11-16-17	
SDP	08-22-17	

LAST REV.: 08-22-17
PROJECT NO: 1102.211
DATE: AUG. 22, 2017
SCALE: AS NOTED
TITLE:

SITE PLAN

SHEET: 2 of 13

SDP-16-073



VICINITY MAP
SCALE: N.T.S.



LINE TYPES

- BOUNDARY LINE - PARENT PARCEL
- RIGHT OF WAY BOUNDARY
- EDGE OF ASPHALT
- EDGE OF CONCRETE
- FENCE LINE - CHAIN
- 1' CONTOUR LINE
- 5' CONTOUR LINE
- LIMITS OF DISTURBANCE/ SILT FENCE
- LIMITS OF DISTURBANCE

LEGEND

- CONCRETE SURFACE
- ASPHALT SURFACE
- GRAVEL SURFACE

STORMWATER MANAGEMENT NOTE

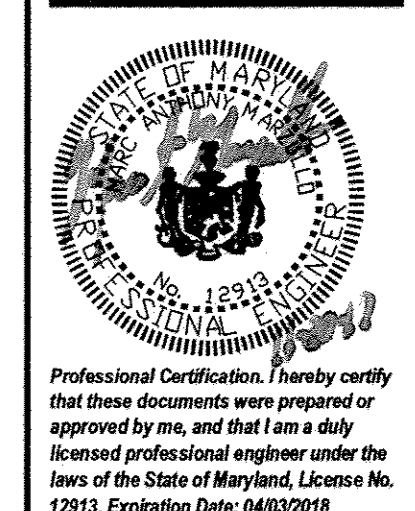
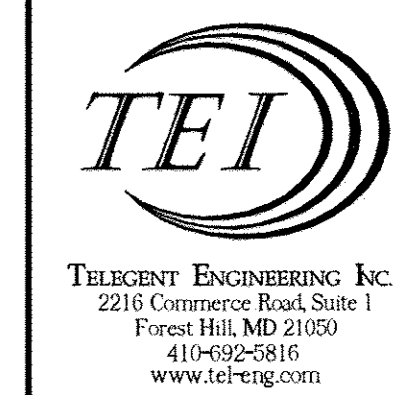
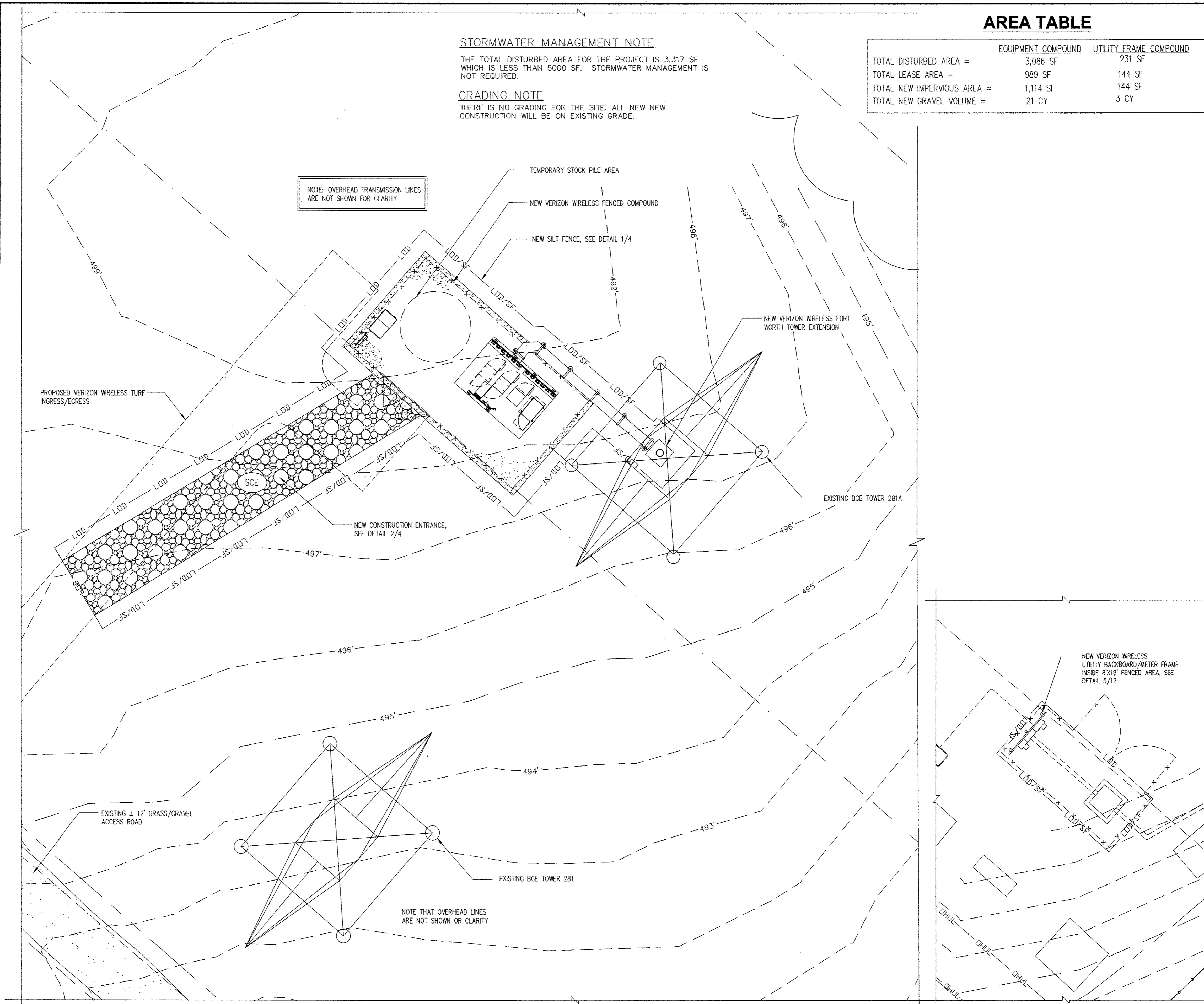
THE TOTAL DISTURBED AREA FOR THE PROJECT IS 3,317 SF WHICH IS LESS THAN 5000 SF. STORMWATER MANAGEMENT IS NOT REQUIRED.

GRADING NOTE

THERE IS NO GRADING FOR THE SITE. ALL NEW NEW CONSTRUCTION WILL BE ON EXISTING GRADE.

AREA TABLE

	EQUIPMENT COMPOUND	UTILITY FRAME COMPOUND
TOTAL DISTURBED AREA =	3,086 SF	231 SF
TOTAL LEASE AREA =	989 SF	144 SF
TOTAL NEW IMPERVIOUS AREA =	1,114 SF	144 SF
TOTAL NEW GRAVEL VOLUME =	21 CY	3 CY



VERIZON WIRELESS
9000 JUNCTION DRIVE
ANNAPOLIS JUNCTION, MD 20701
PHONE: (301) 512-2000

verizon
NEW CUT - BGE TOWER 281A
4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

SUBMISSIONS/ REVISIONS:

NO.	DESCRIPTION	DATE
SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

LAST REV.: 08-22-17
PROJECT NO: 1102.211
DATE: AUG. 22, 2017
SCALE: AS NOTED

TITLE:
EROSION AND SEDIMENT CONTROL PLANS

SHEET:
3 of 13

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

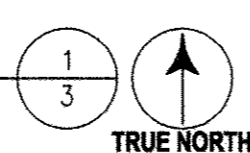
Chad Edelson 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. M. ... for KS 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT ES DATE

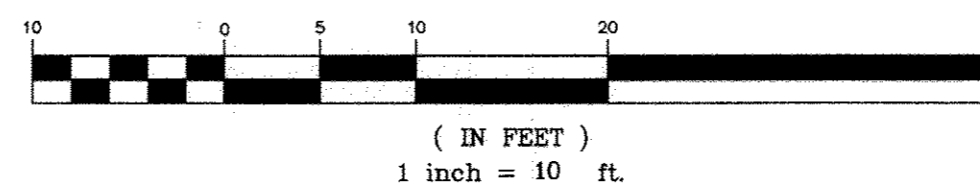
N. ... 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=10'-0"

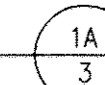


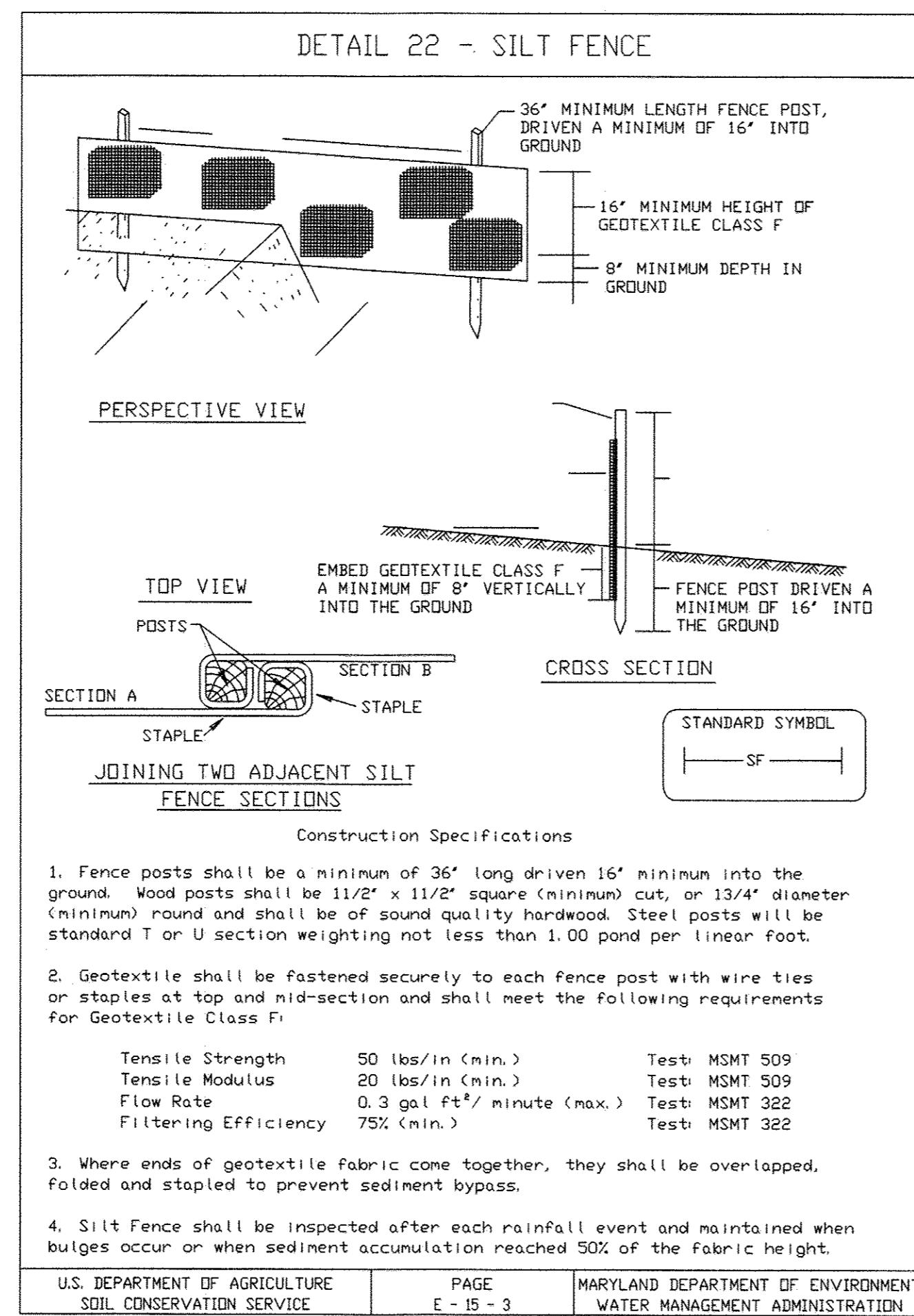
GRAPHIC SCALE



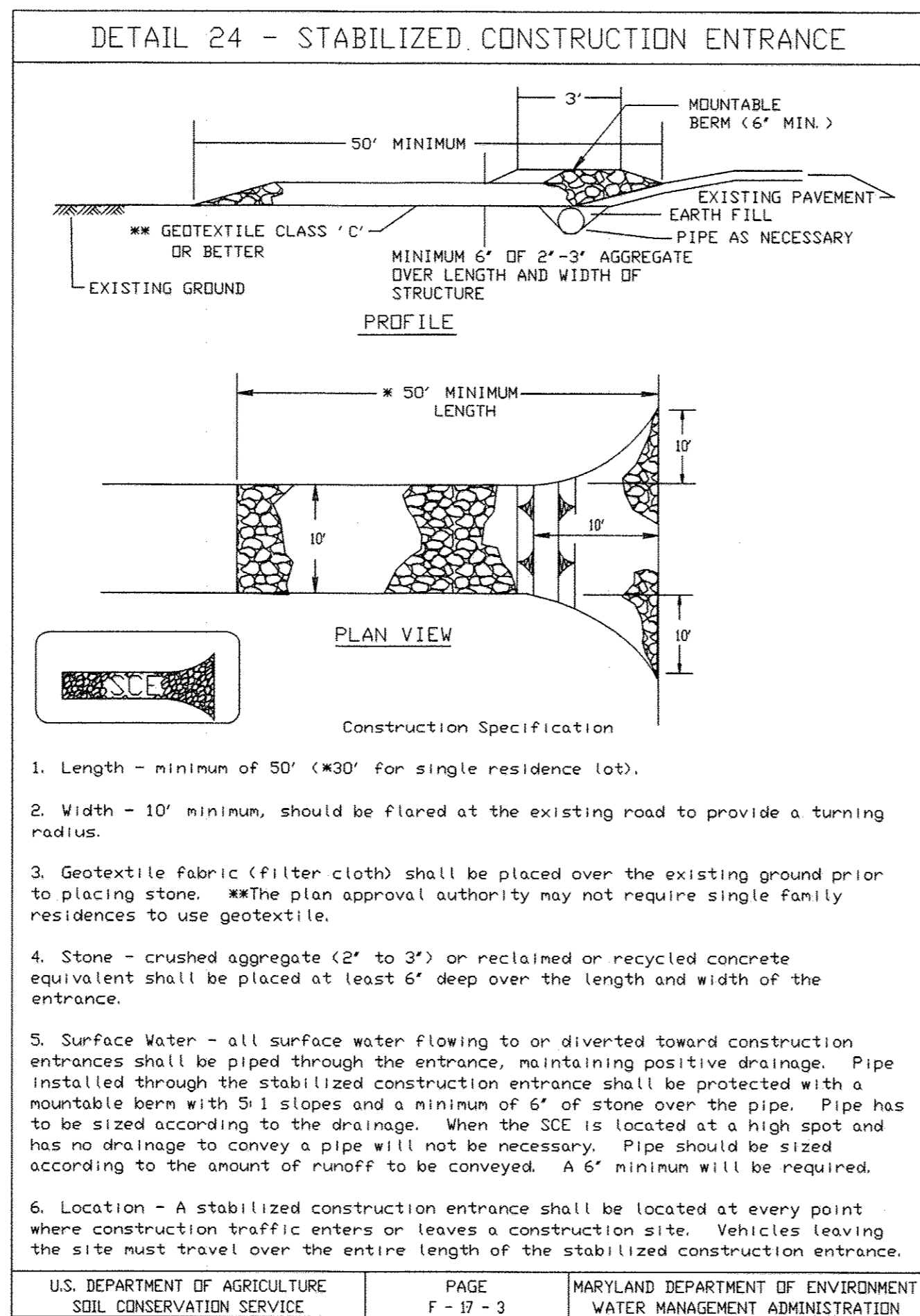
PARTIAL EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=10'-0"





SILT FENCE
SCALE: N.T.S. 1/4



STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S. 2/4

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Ch. Edmon 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. Mander 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT SS DATE

W. J. ... 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

SEQUENCE OF CONSTRUCTION

- NOTIFY THE SEDIMENT AND CONTROL INSPECTOR 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
- PERFORM CLEARING AND GRUBBING REQUIRED FOR INSTALLATION OF PERIMETER CONTROLS.
- INSTALL PERIMETER CONTROLS; NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER.
- COMPLETE ALL REQUIRED CLEARING AND GRUBBING.
- INSTALL UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS.
- INSTALL FOUNDATIONS, FORT WORTH TOWER, SHELTER, ANTENNAS, CABLES AND OTHER EQUIPMENT.
- INSTALL SITE IMPROVEMENTS.
- NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL TO REMOVE THE SEDIMENT AND EROSION CONTROL DEVICES.
- RESEED STABILIZED CONSTRUCTION ENTRANCE AREA.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE: 0.07 ACRES
AREA DISTURBED: 0.07 ACRES
AREA TO BE ROOFED OR PAVED: 0.007 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.045 ACRES
TOTAL CUT 0 CU. YDS.
TOTAL FILL 0 CU. YDS.
OFF SITE WASTE/BORROW AREA LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.



8600 Rockledge Drive, Suite 550
Bethesda, MD 20817
PHONE: (202)408-0960
FAX: (202)408-0961



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12913, Expiration Date: 04/03/2018

VERIZON WIRELESS
9000 JUNCTION DRIVE
ANNAPOLIS JUNCTION, MD 20701
PHONE: (301) 512-2000

verizon
 NEW CUT - BGE TOWER 281A
 4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
 ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

SUBMISSIONS/REVISIONS:		
NO.	DESCRIPTION	DATE
SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

LAST REV.: 08-22-17
PROJECT NO: 1102.211
DATE: AUG. 22, 2017
SCALE: AS NOTED

TITLE:
EROSION AND SEDIMENT CONTROL DETAILS AND NOTES

SHEET:
4 of 13

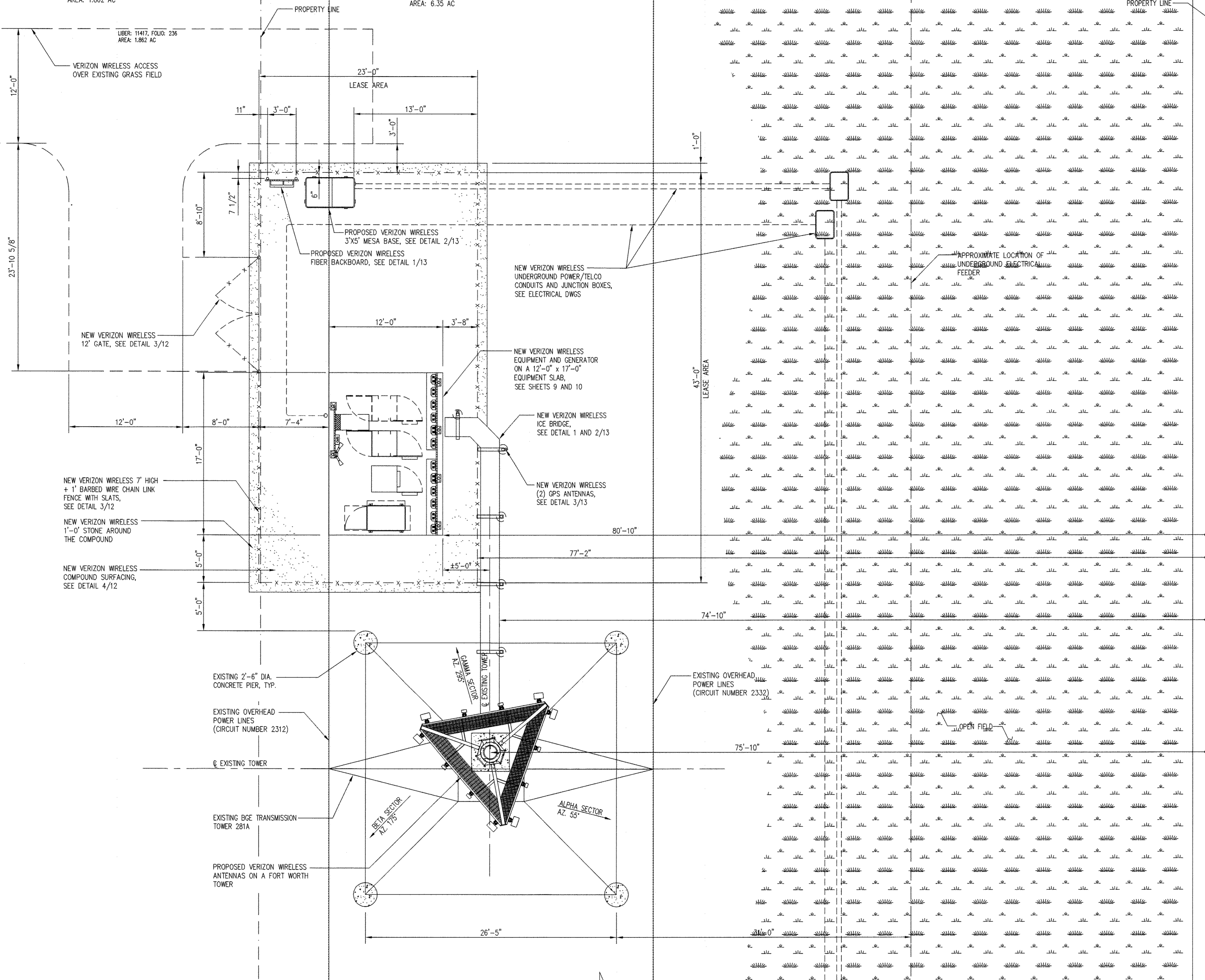
SETBACK REQUIREMENTS

SECTION 108 D. 4. c. MINIMUM SETBACK FROM LOT LINES

- (1) STRUCTURE: 10 FT
- (2) USES: 20 FT

OWNER: BALTIMORE GAS & ELECTRIC CO.
P.O. BOX 1475
BALTIMORE, MD 21203
LIBER: MDR 11417, FOLI: 236
AREA: 1.862 AC

OWNER: BALTIMORE GAS & ELECTRIC CO.
P.O. BOX 1475
BALTIMORE, MD 21203
LIBER: RHM 348, FOLI: 105
AREA: 6.35 AC



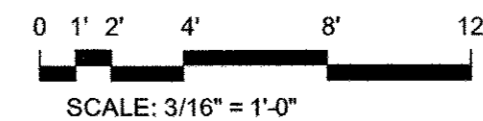
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

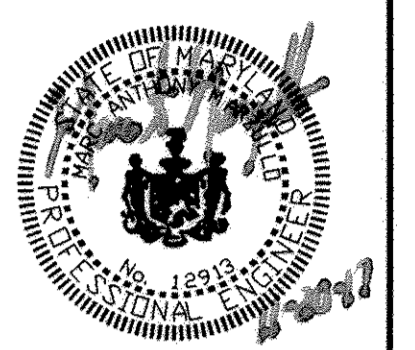
[Signature] 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT ss DATE

[Signature] 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

COMPOUND PLAN
SCALE: 3/16" = 1'-0"



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



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12913, Expiration Date: 04/03/2018

VERIZON WIRELESS
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ANNAPOLIS JUNCTION, MD 20701
PHONE: (301) 512-2000

verizon
NEW CUT - BGE TOWER 281A
4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

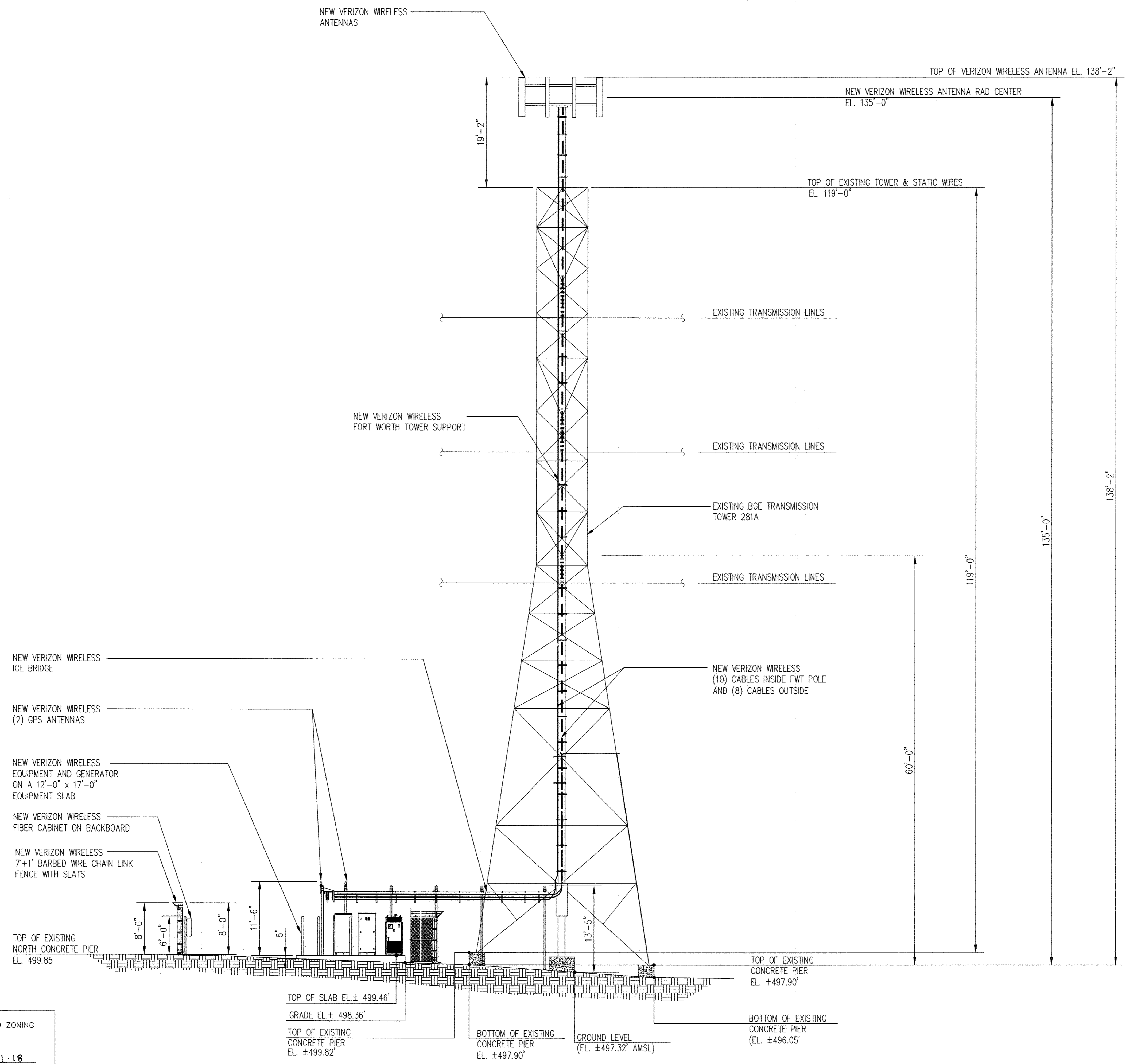
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SDP		08-22-17

LAST REV.: 08-22-17
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DATE: AUG. 22, 2017
SCALE: AS NOTED

TITLE:
COMPOUND PLAN

SHEET:
5 of 13

SDP-16-073



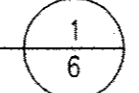
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Eshen 2-1-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. Mauchant 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT 68 DATE

N. P. [Signature] 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

TOWER ELEVATION
 SCALE: 1/8"=1'-0"



TEI
 TELECENT ENGINEERING, INC.
 2216 Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-992-5816
 www.teieng.com

entrex
 communication services, inc.
 6600 Rockledge Drive, Suite 550
 Bethesda, MD 20817
 PHONE: (202)408-0960
 FAX: (202)408-0961

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 12913, Expiration Date: 04/03/2018

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verizon
 NEW CUT- BGE TOWER 281A
 4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
 ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

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SDP		08-22-17

LAST REV.: 08-22-17
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 SCALE: AS NOTED
 TITLE:

TOWER ELEVATION

SHEET:
 6 of 13

SDP-16-073

SUBMISSIONS/REVISIONS:		
NO.	DESCRIPTION	DATE
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SDP	11-16-17	
SDP	08-22-17	

LAST REV.: 08-22-17
 PROJECT NO: 1102.211
 DATE: AUG. 22, 2017
 SCALE: AS NOTED
 TITLE:

ANTENNA LAYOUT, SECTION, DETAILS AND SCHEDULE

SHEET:
 7 of 13

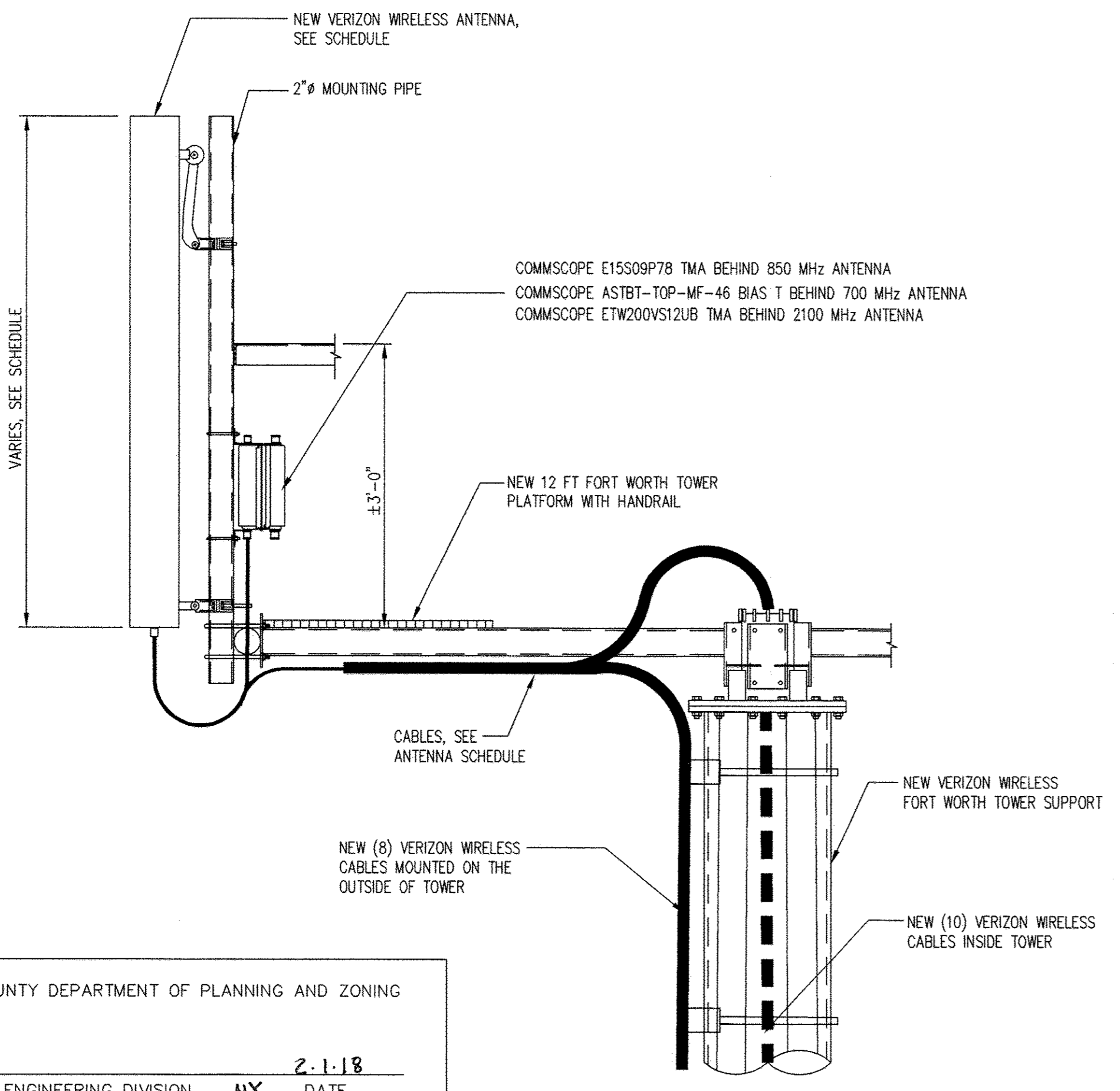
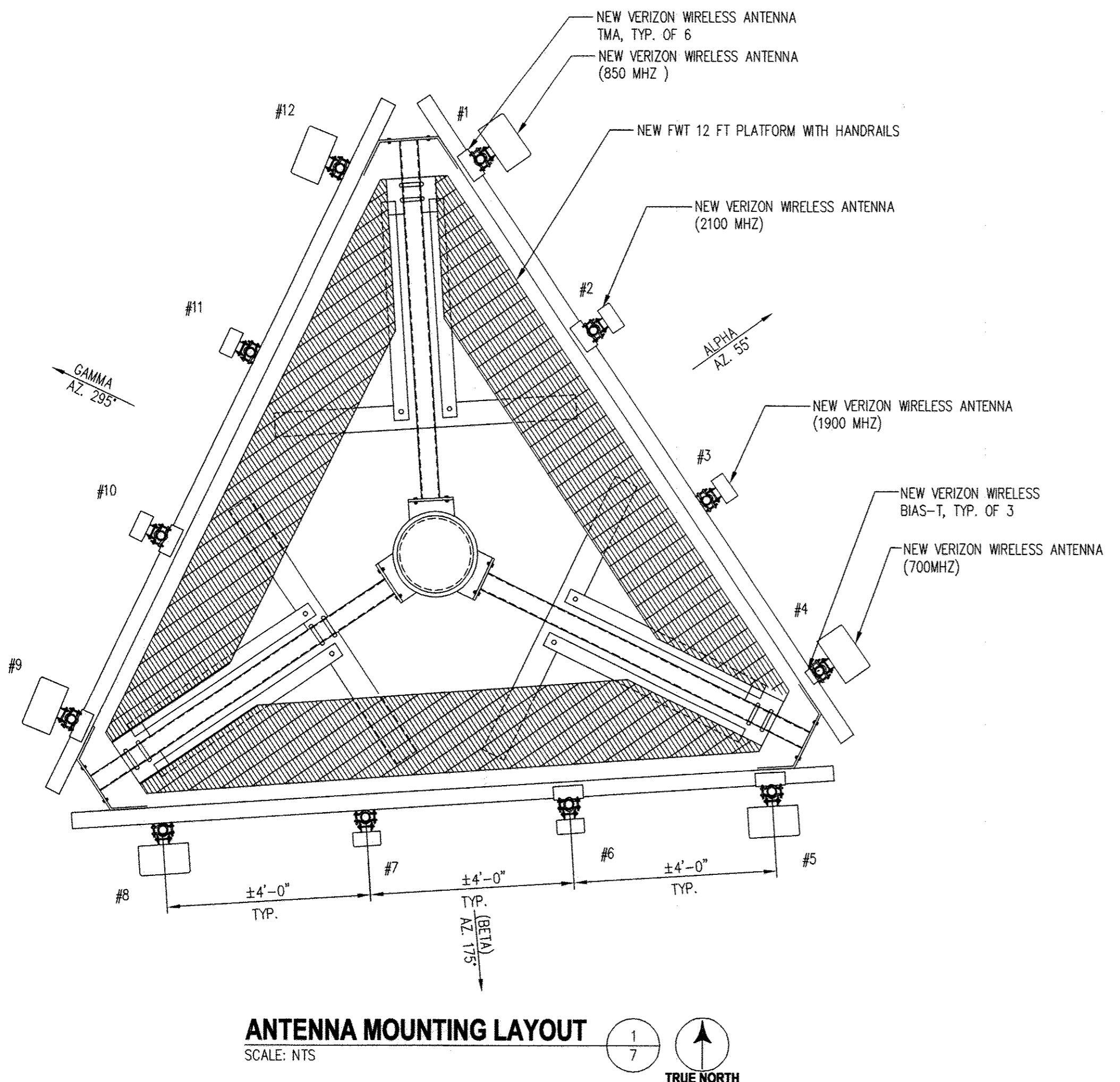
ANTENNA AND CABLE SCHEDULE											
ANTENNA SECTOR	ANTENNA MARK	RAD CENTER	ANTENNA	MECHANICAL DOWN-TILT	AZIMUTH	CABLE LENGTH	COAXIAL CABLE NO. AND SIZE	TRX ANTENNA CONFIGURATION	MAIN COAX COLOR CODE	JUMPER COLOR CODE	FREQUENCY
ALPHA	# 1	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	SEE NOTE 6	55°	180'	(1) 1 5/8"	TRX0	R	R	850 MHZ
	# 2	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	55°	180'	(2) 1 5/8"	TRX0/TRX1	O/R/O O/4R/O	O/R/O O/4R/O	2100 MHZ
	# 3	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	55°	180'	(1) 1 5/8"	TRX1	B/R/B	B/R/B	1900 MHZ
	# 4	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	-	55°	180'	(2) 1 5/8"	TRX0/TRX1	G/R/G G/4R/G	G/R/G G/4R/G	700 MHZ
BETA	# 5	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	-	175°	180'	(1) 1 5/8"	TRX0	BL	BL	850 MHZ
	# 6	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	175°	180'	(2) 1 5/8"	TRX0/TRX1	O/BL/O O/4BL/O	O/BL/O O/4BL/O	2100 MHZ
	# 7	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	175°	180'	(1) 1 5/8"	TRX1	B/BL/B	B/BL/B	1900 MHZ
	# 8	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	-	175°	180'	(2) 1 5/8"	TRX0/TRX1	G/BL/G G/4BL/G	G/BL/G G/4BL/G	700 MHZ
GAMMA	# 9	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	-	295°	180'	(1) 1 5/8"	TRX0	Y	Y	850 MHZ
	# 10	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	295°	180'	(2) 1 5/8"	TRX0/TRX1	O/Y/O O/4Y/O	O/Y/O O/4Y/O	2100 MHZ
	# 11	135'-0"	HBX-6517DS-A1M (74.9" H x 6.5" W x 3.3" D)	-	295°	180'	(1) 1 5/8"	TRX1	B/Y/B	B/Y/B	1900 MHZ
	# 12	135'-0"	LNX-6514DS-A1M (72.9" H x 11.9" W x 7.1" D)	-	295°	180'	(2) 1 5/8"	TRX0/TRX1	G/Y/G G/4Y/G	G/Y/G G/4Y/G	700 MHZ
GPS	-	-	MAXRAD GPS-TMG-HR26NMSCLA	-	-	-	(1) 1/2"	-	W	-	-
GPS	-	-	MAXRAD GPS-TMG-HR26NMSCLA	-	-	-	(1) 1/2"	-	2W	-	-

NOTES:

- 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.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'.
- FINAL CABLE LENGTHS SHALL BE DETERMINED AFTER INSTALLATION.
- COORDINATE THE ANTENNA DOWNTILT WITH THE RF ENGINEER.
- THE CABLE LENGTHS SHOWN ARE THE ACTUAL COMPUTED LENGTHS TO THE FACE OF THE SHELTER WITH NO OVERAGE ALLOWANCE.
- 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"

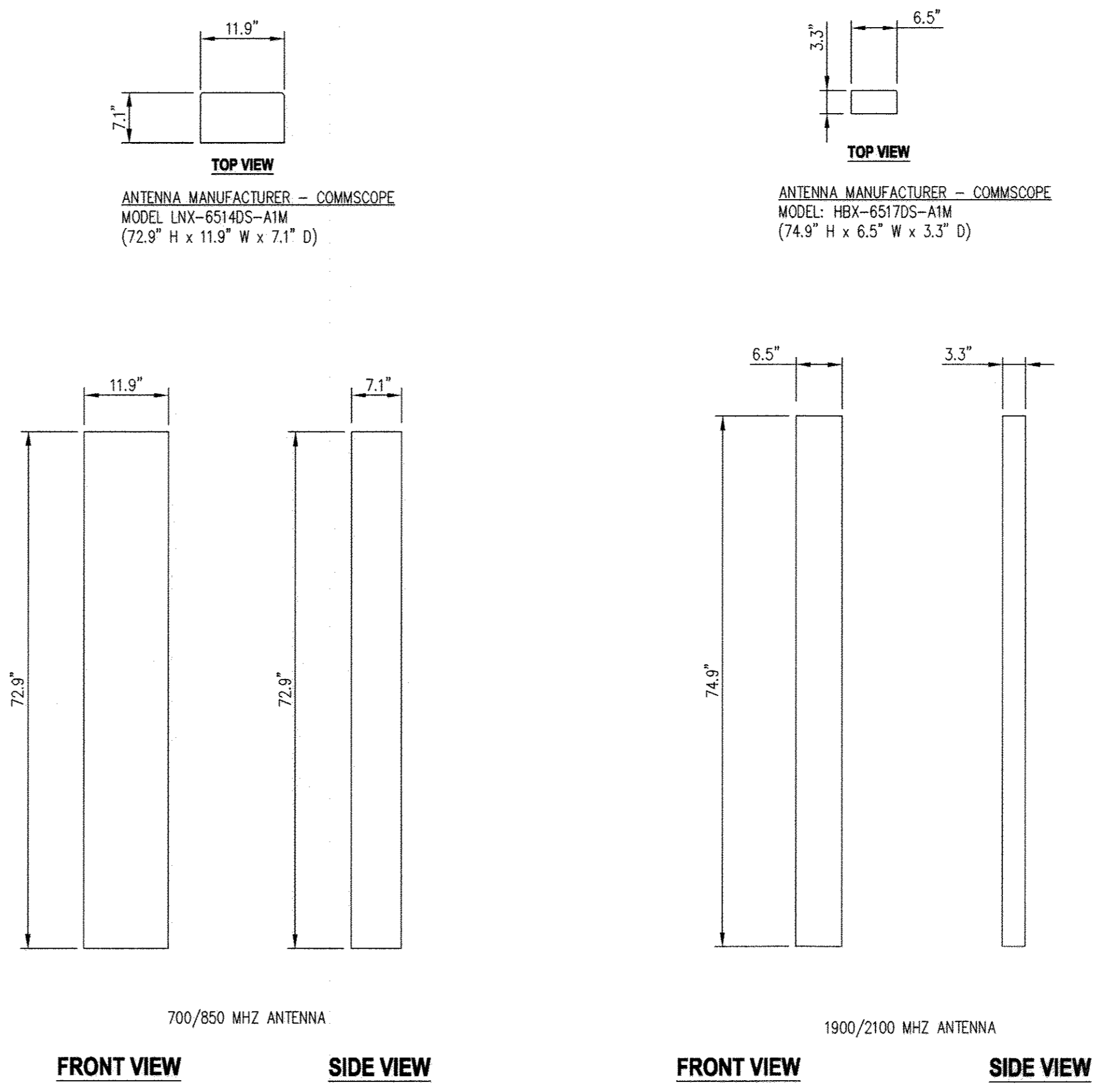


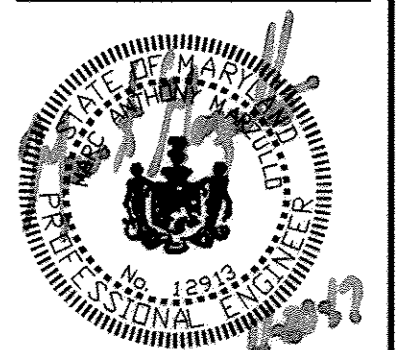
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad... 2-1-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

J. M... 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

W... 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE





Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12913, Expiration Date: 04/03/2018

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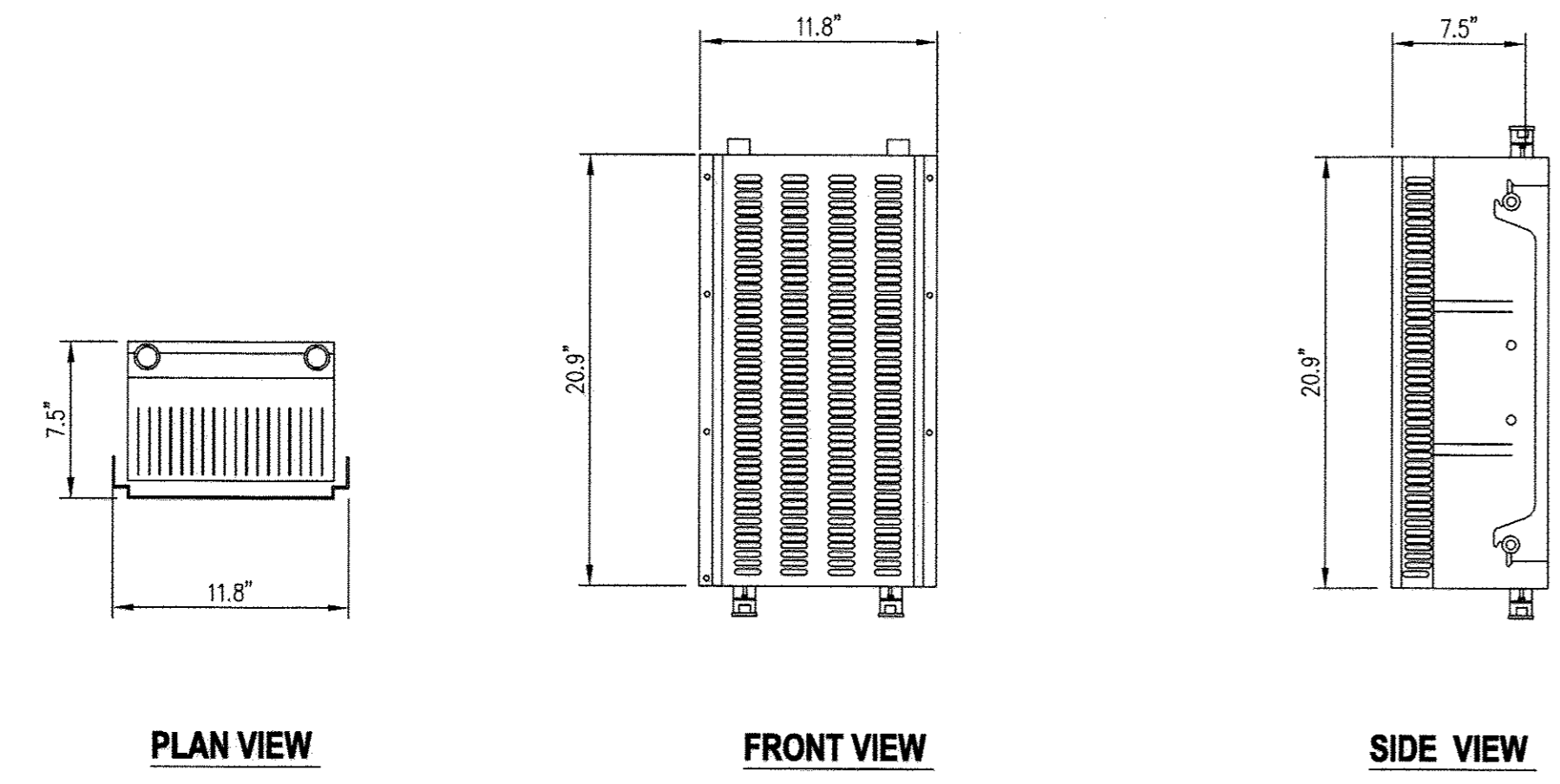
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LAST REV.: 08-22-17
PROJECT NO: 1102.211
DATE: AUG. 22, 2017
SCALE: AS NOTED
TITLE:

RADIO HEAD DETAILS

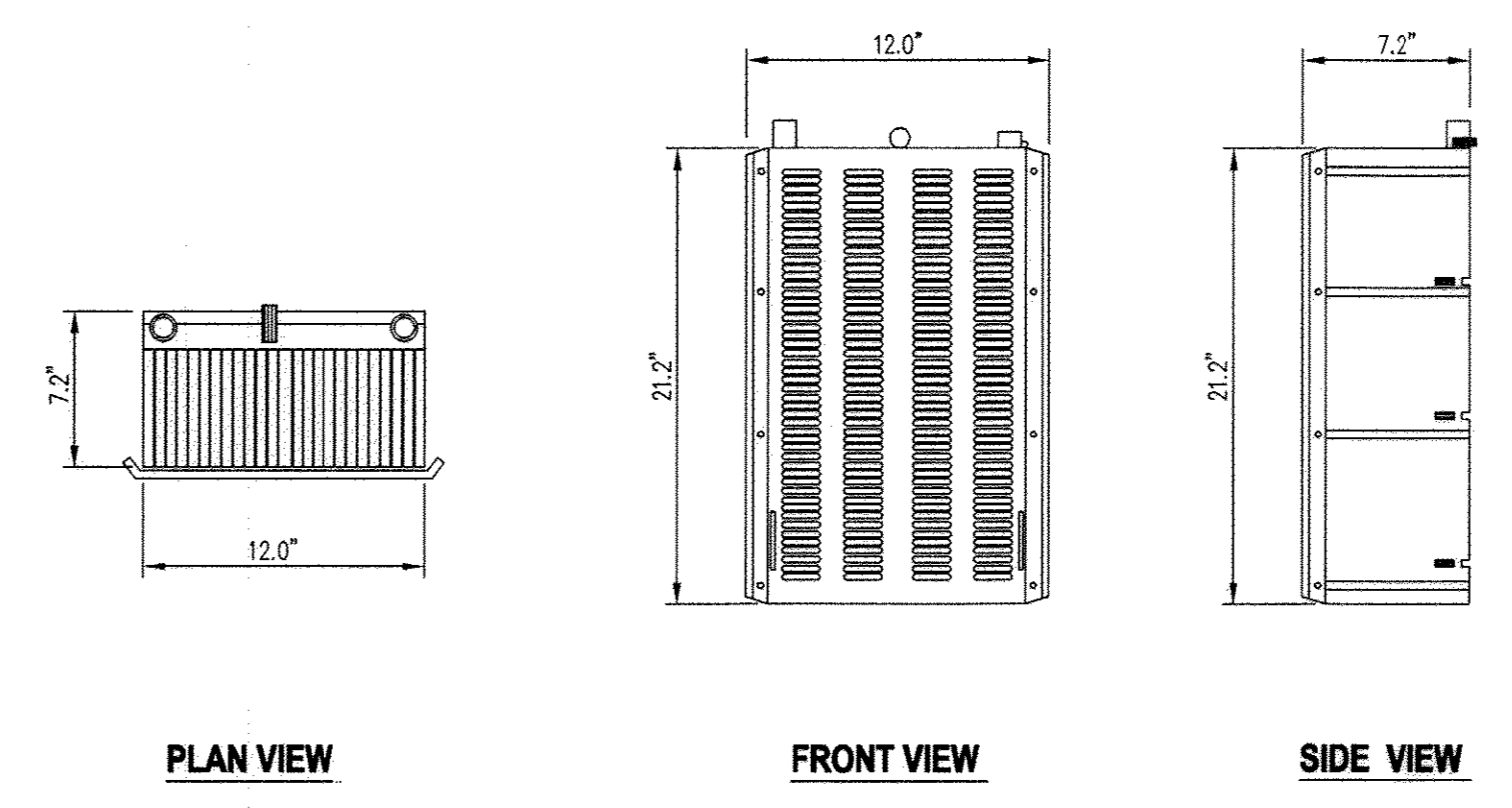
SHEET:
8 of 13



MANUFACTURER: ALCATEL-LUCENT
MODEL: B13 RRH 4X30
DIMENSION: 7.5"Dx11.8"Wx20.9"H WITH SOLAR SHIELD
WEIGHT: 55.6 LBS WITH SOLAR SHIELD

NOTE:
1. INSTALL RRH PER MANUFACTURE RECOMMENDATIONS.

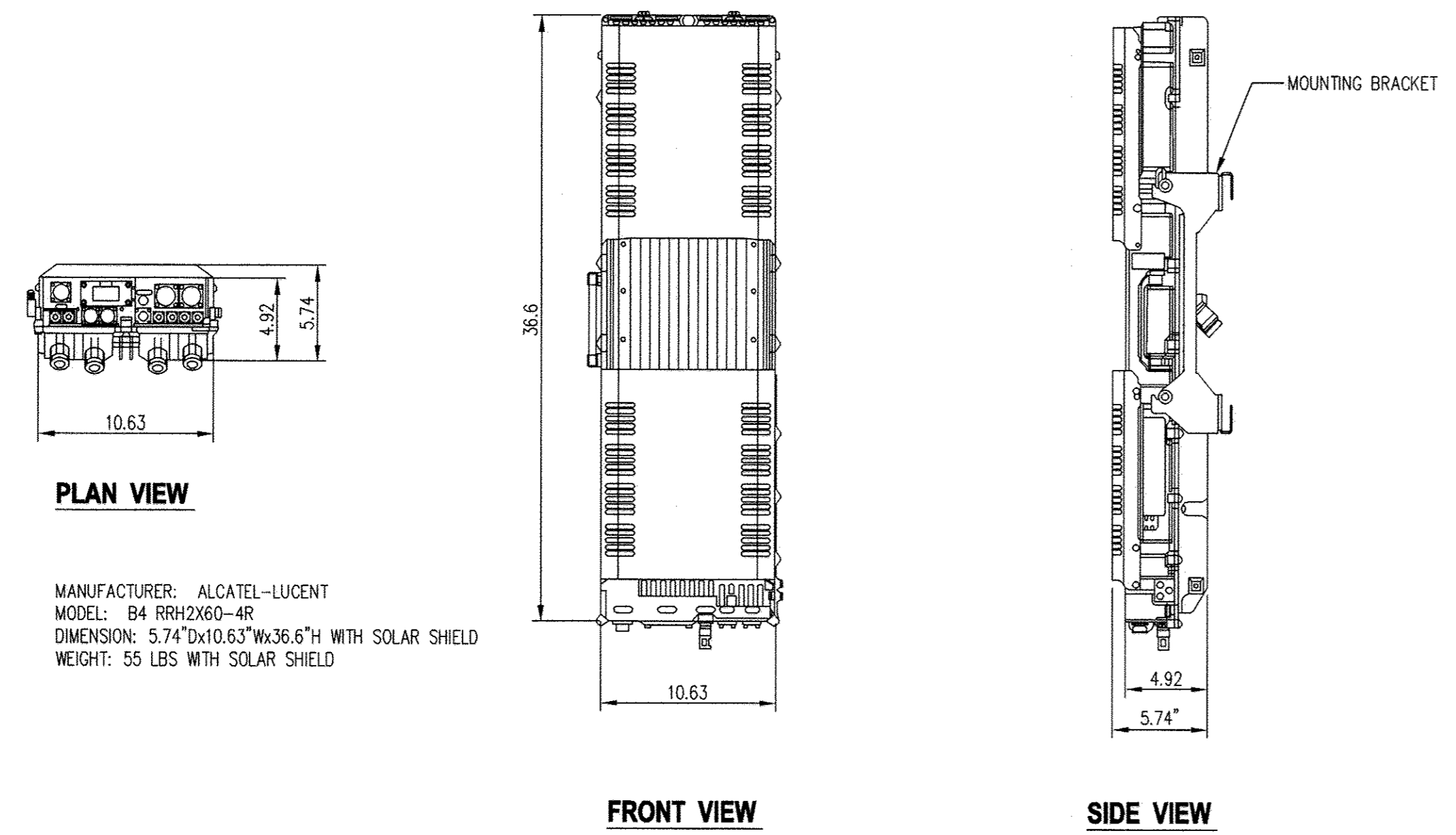
700 MHz LTE RRH DETAIL 1/8
SCALE: 1-1/2"=1'-0"



MANUFACTURER: ALCATEL-LUCENT
MODEL: B25 RRH4X30
DIMENSION: 7.2"Dx12.0"Wx21.2"H WITH SOLAR SHIELD
WEIGHT: 53 LBS WITH SOLAR SHIELD

NOTE:
1. INSTALL RRH PER MANUFACTURE RECOMMENDATIONS.

1900 MHz RRH DETAIL 2/8
SCALE: 1-1/2"=1'-0"



MANUFACTURER: ALCATEL-LUCENT
MODEL: B4 RRH2X60-4R
DIMENSION: 5.74"Dx10.63"Wx36.6"H WITH SOLAR SHIELD
WEIGHT: 55 LBS WITH SOLAR SHIELD

NOTE:
1. INSTALL RRH PER MANUFACTURE RECOMMENDATIONS.

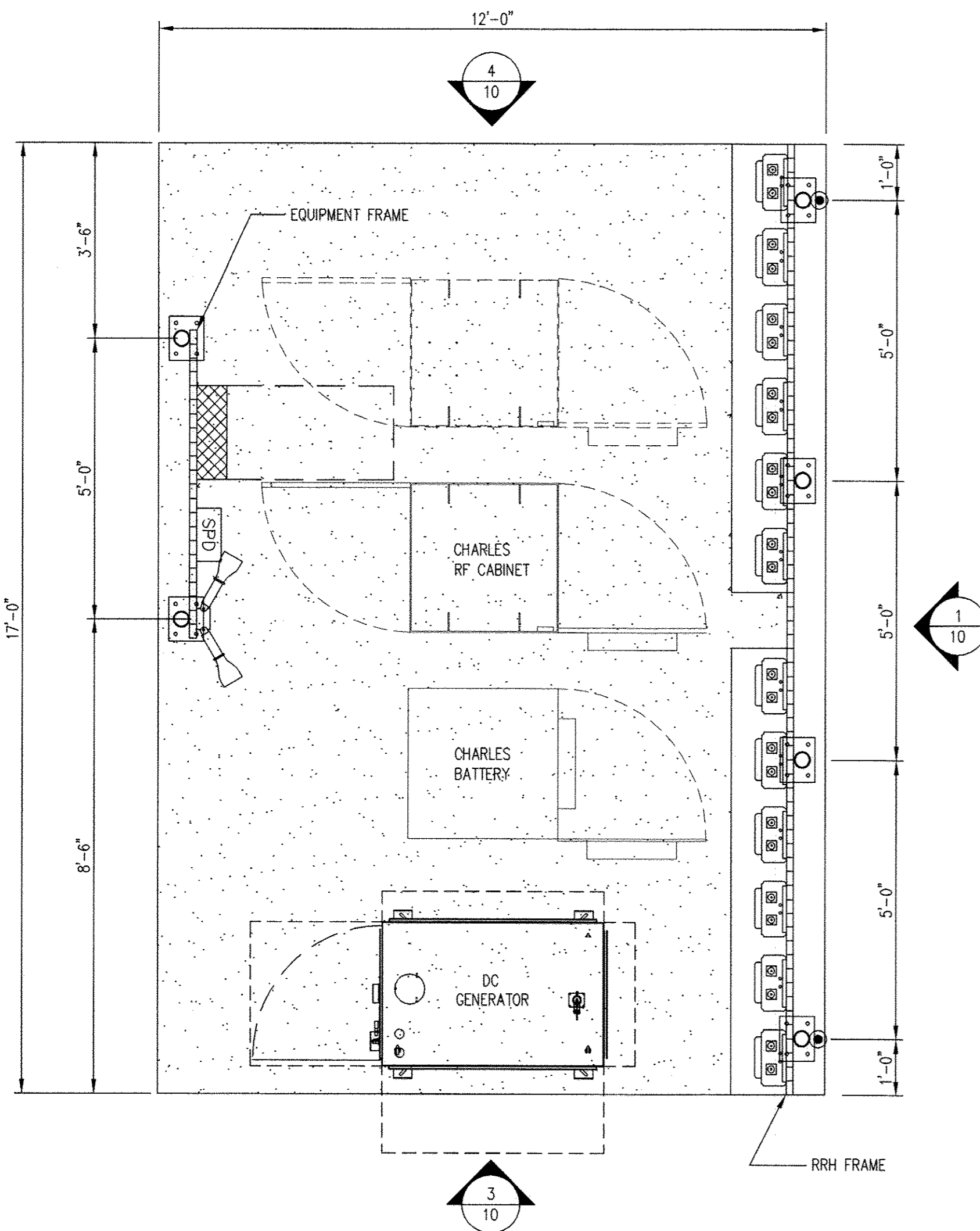
2100 MHz RRH DETAIL 3/8
SCALE: 1-1/2"=1'-0"

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

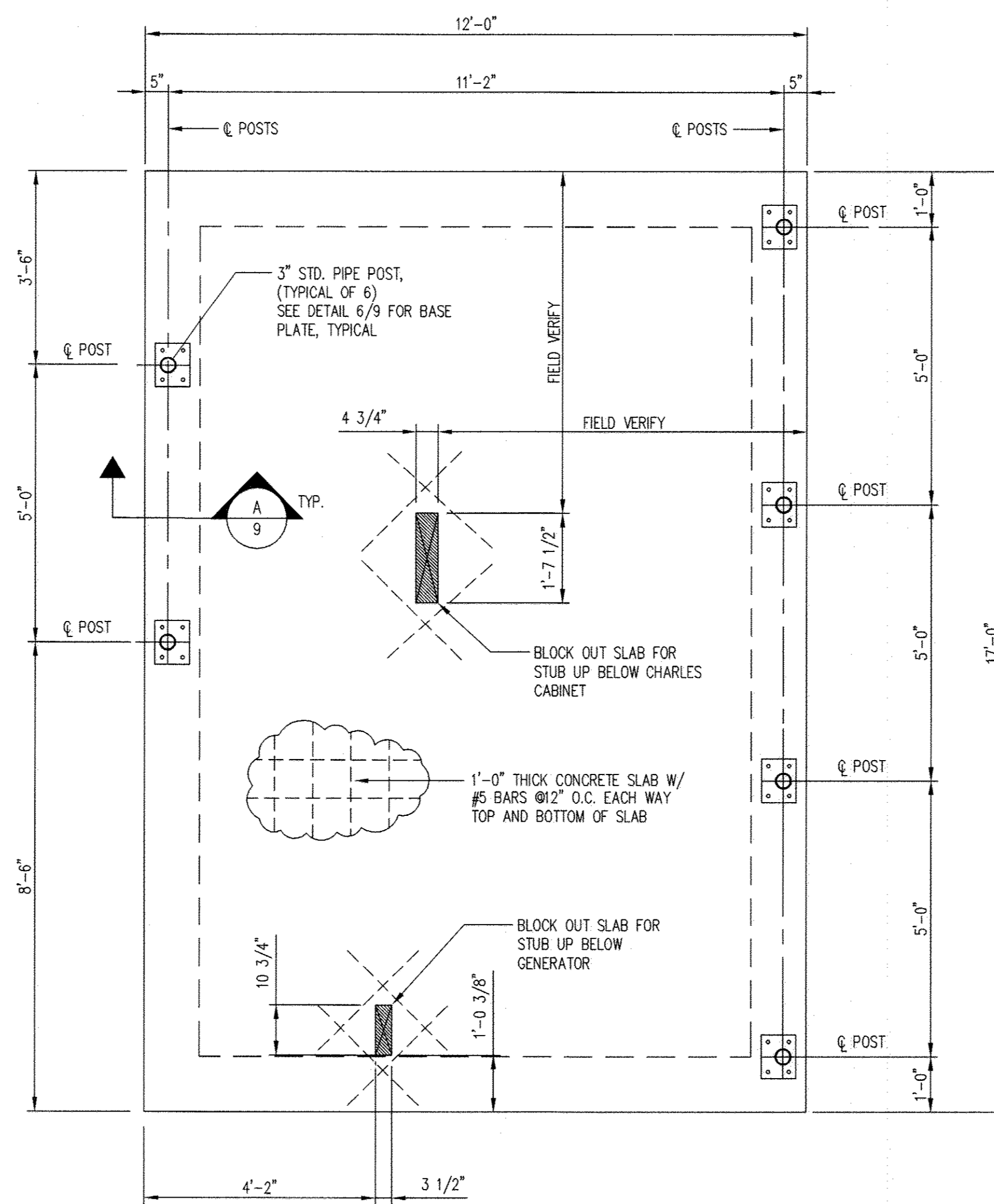
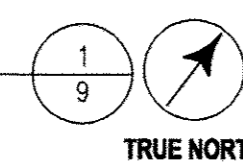
Paul E. ... 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. Plocher for KS 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

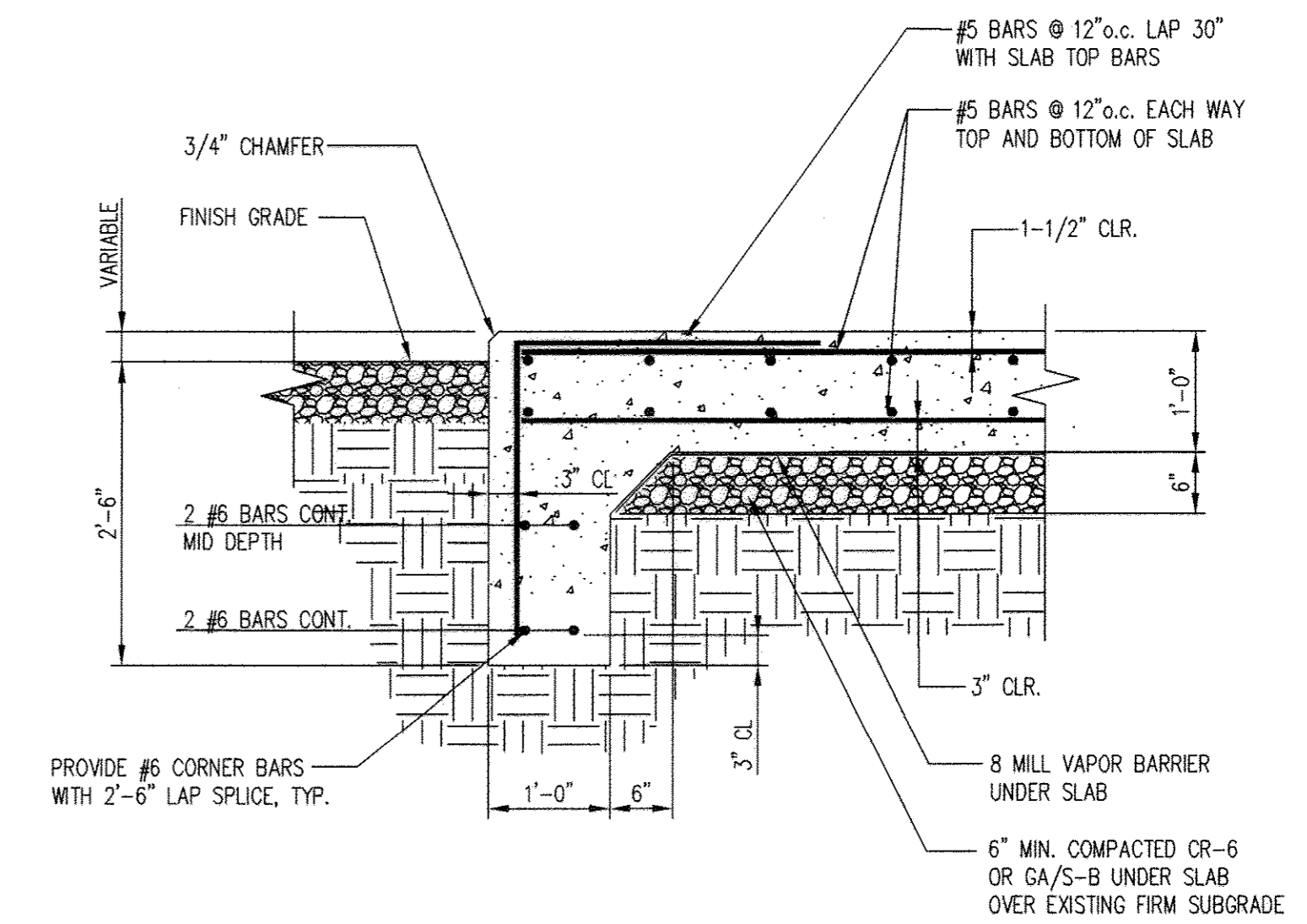
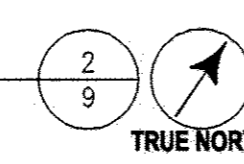
Valdis J. ... 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE



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

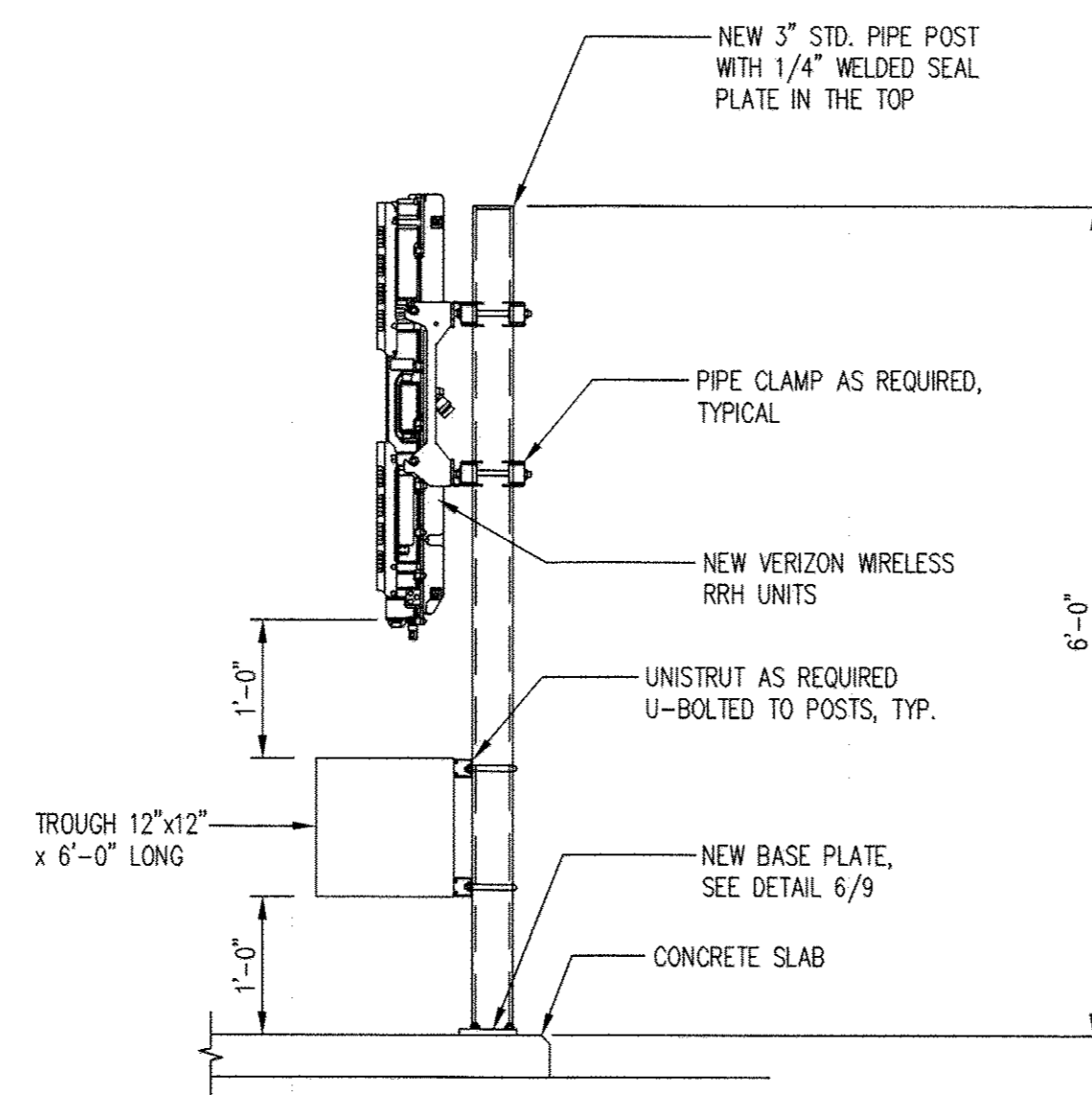
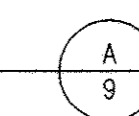


CONCRETE EQUIPMENT SLAB PLAN
SCALE: 1/2"=1'-0"

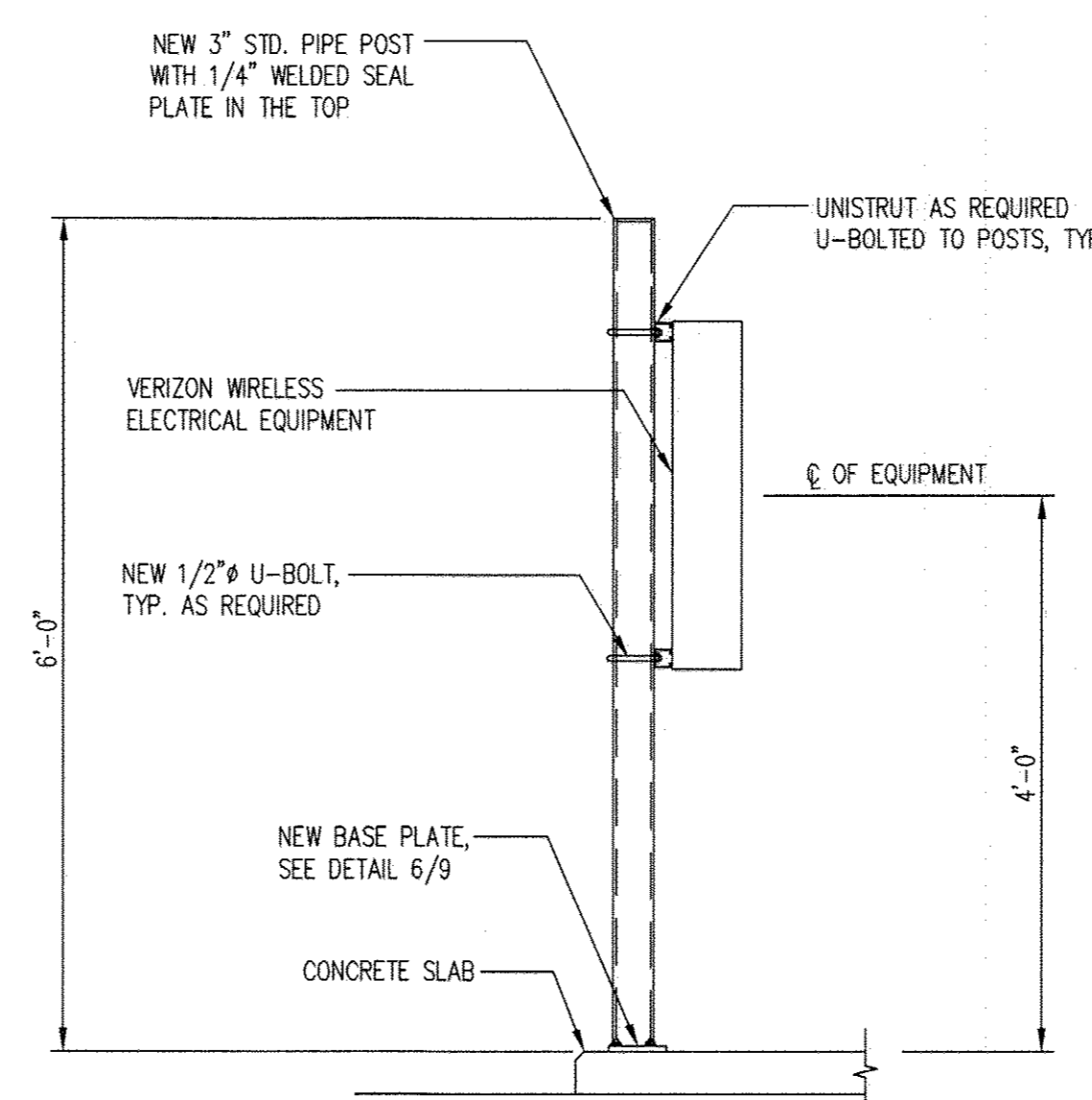
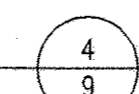


- NOTES:
1. ALL SLAB AND BEAM REINFORCING SHALL BE FULL LENGTH BARS WITH NO SPLICES.
2. HOOK TOP SLAB BARS AT OPENINGS IN THE SLAB.

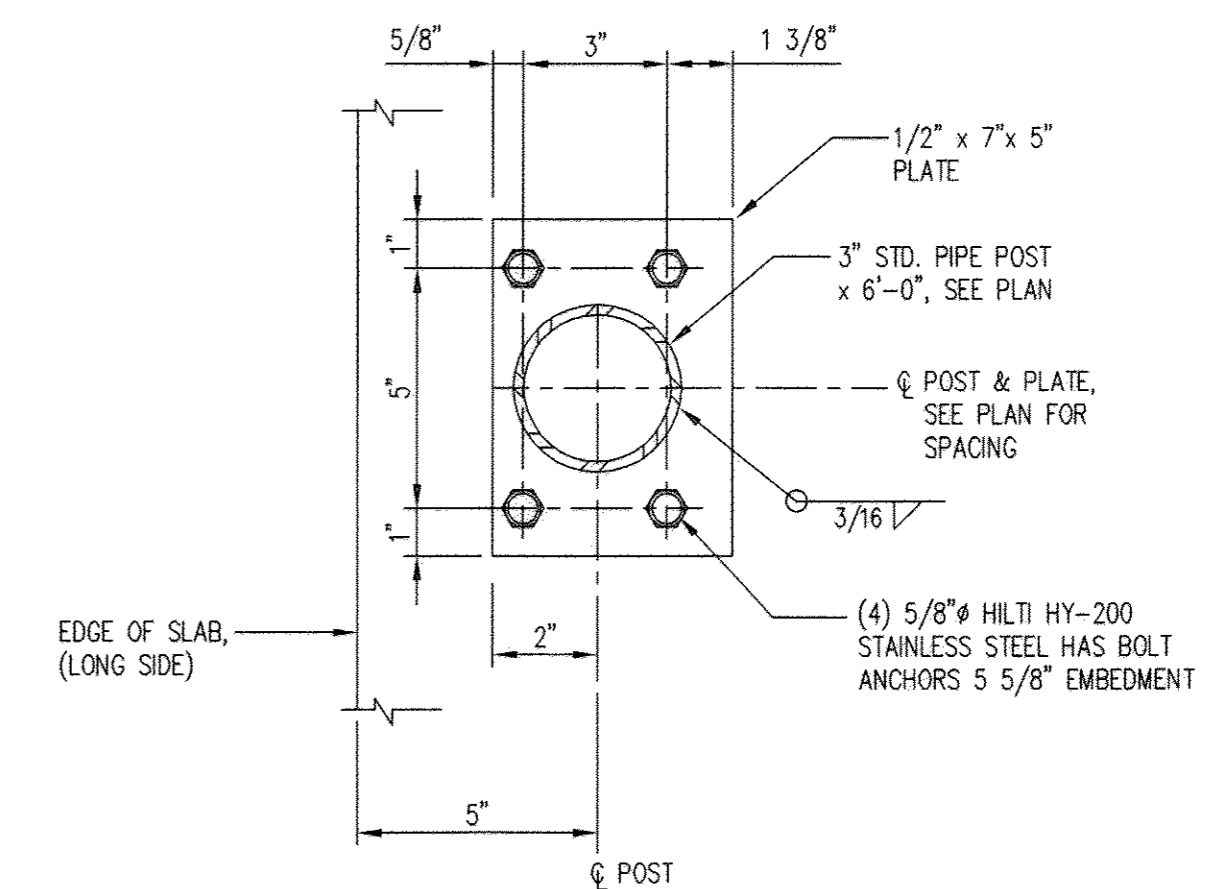
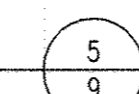
CONCRETE SLAB DETAIL
SCALE: 3/4"=1'-0"



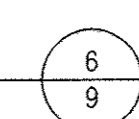
EQUIPMENT SUPPORT POST ELEVATION
SCALE: 1"=1'-0"



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



EQUIPMENT POST BASE PLATE DETAIL
SCALE: 3"=1'-0"



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Paul P. ... 2-1-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. Marchant ... 2-7-18
CHIEF, DIVISION OF LAND DEVELOPMENT 88 DATE

William ... 2-8-18
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

SUBMISSIONS/REVISIONS:	
NO.	DESCRIPTION/ DATE

SDP	11-20-17
SDP	11-16-17
SDP	08-22-17

LAST REV.: 08-22-17

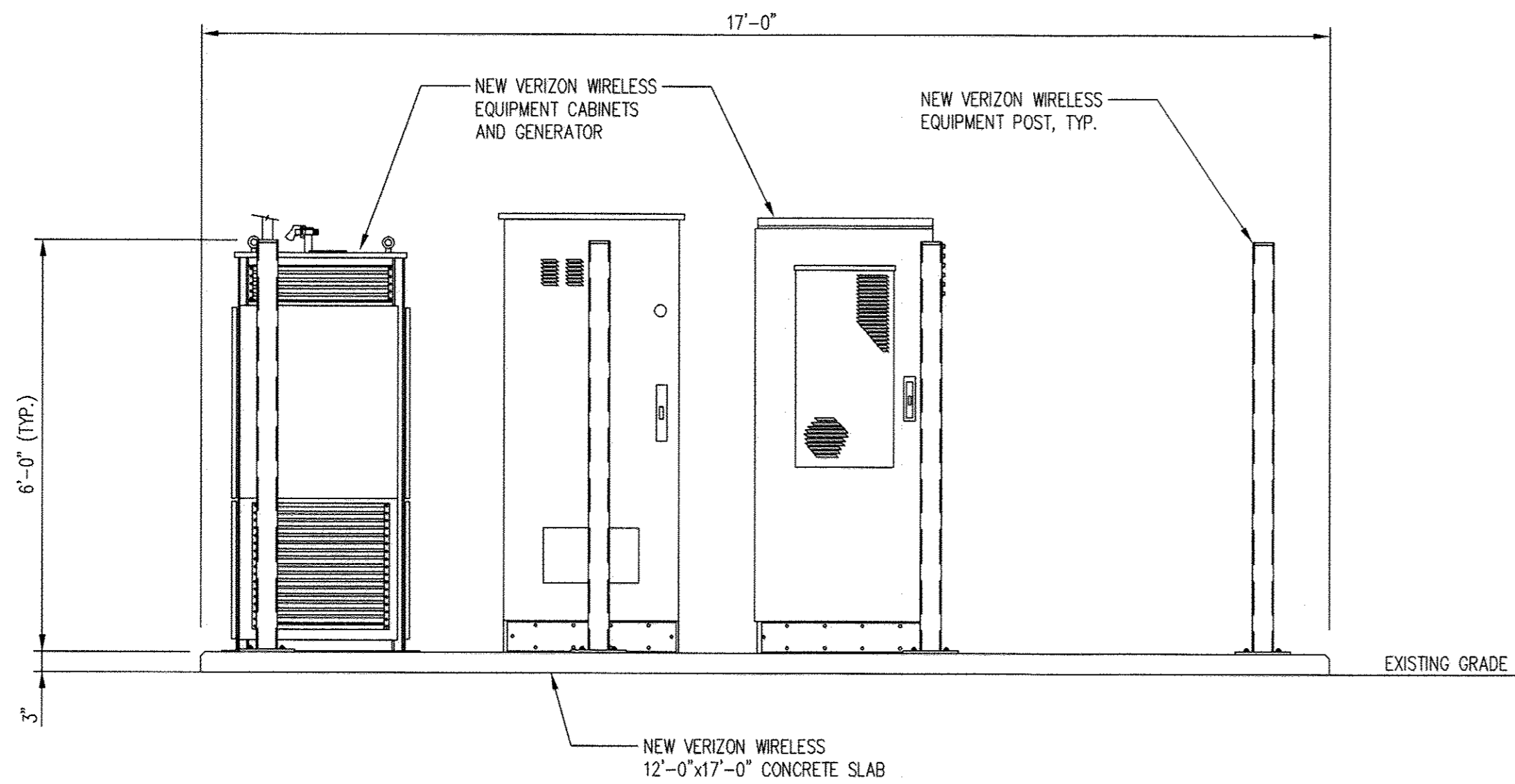
PROJECT NO.: 1102.211

DATE: AUG. 22, 2017

SCALE: AS NOTED

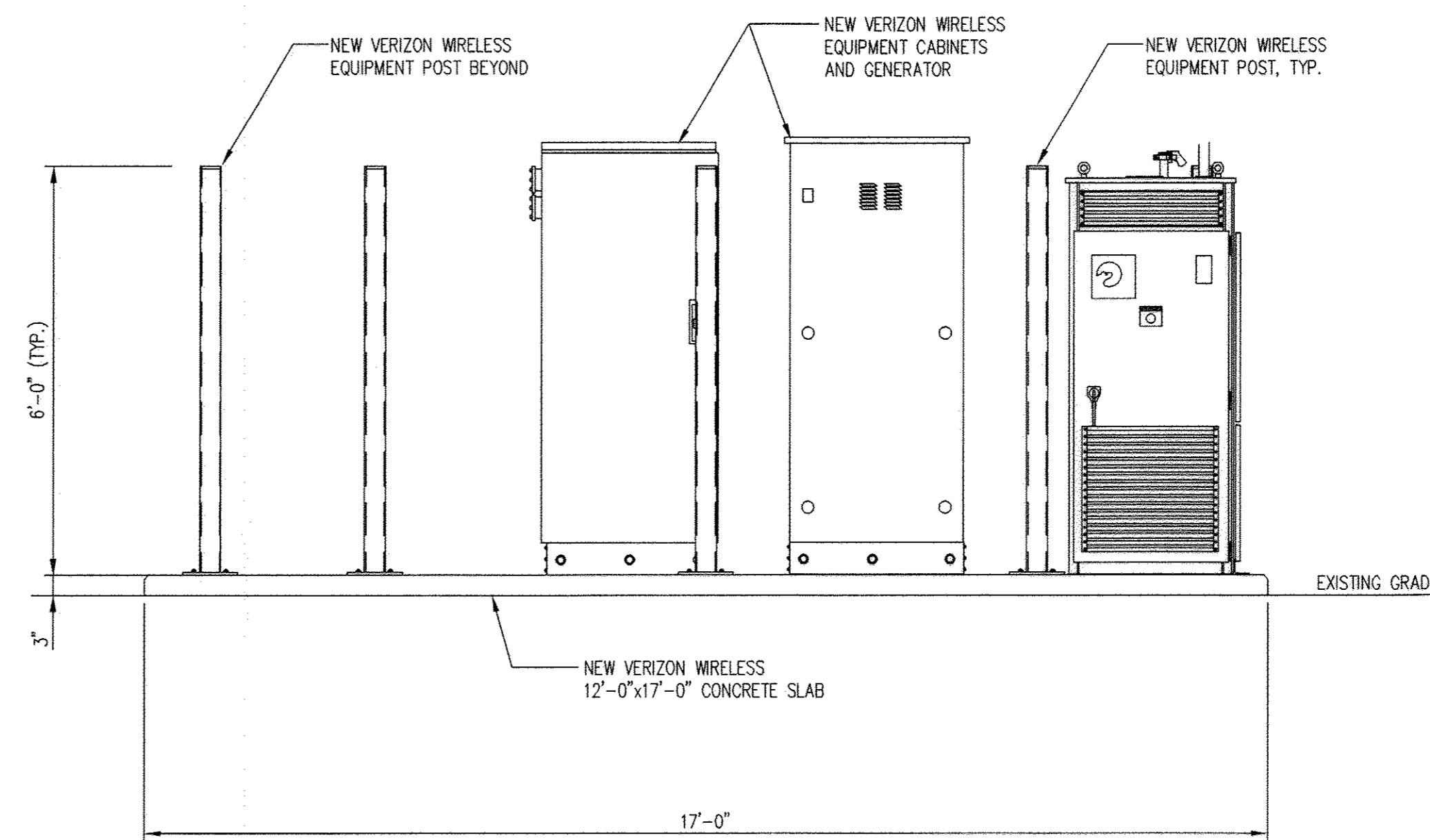
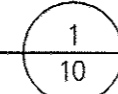
TITLE:

EQUIPMENT AND EQUIPMENT SLAB DETAILS



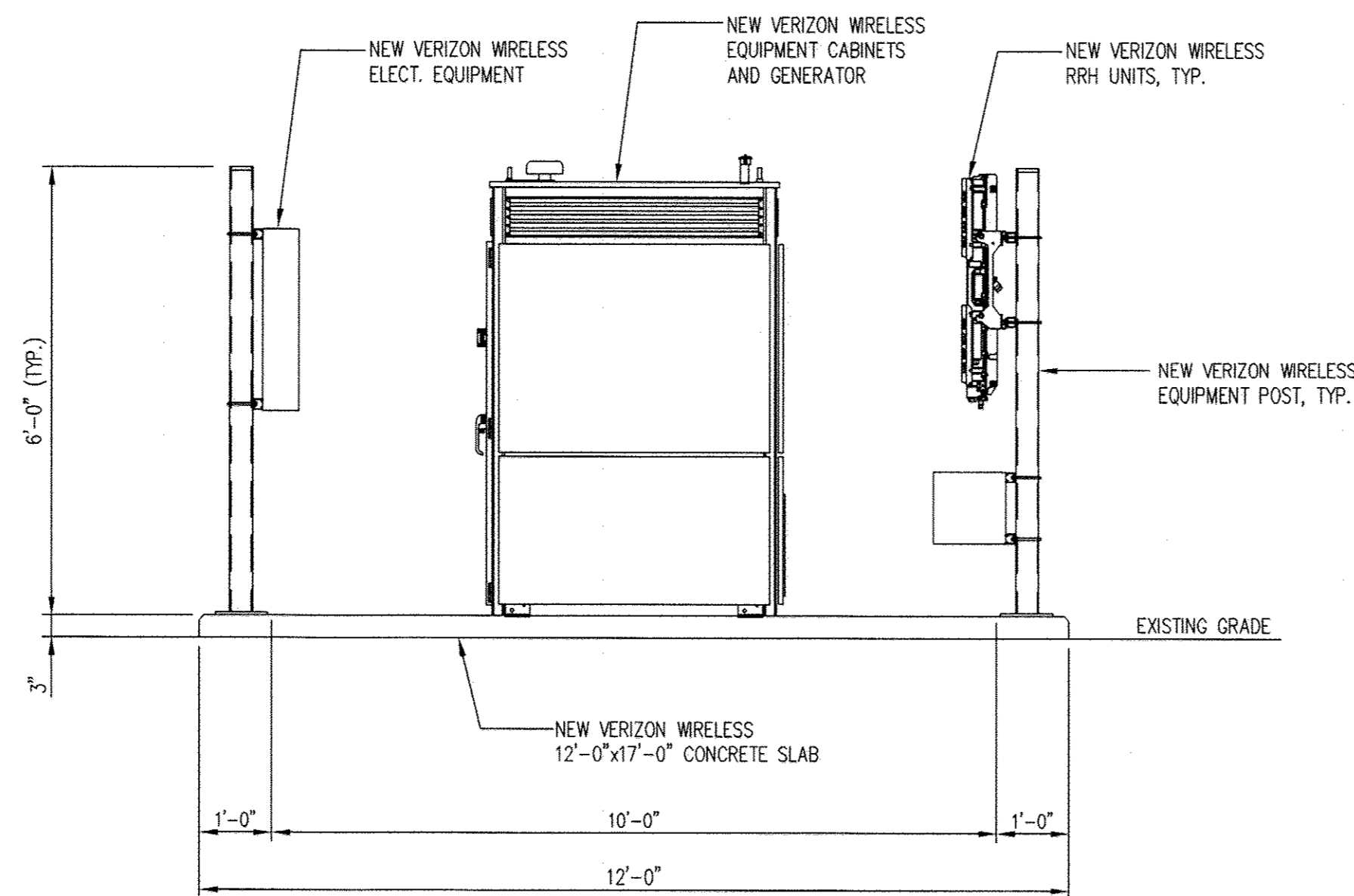
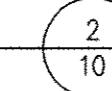
NOTES
 1. GPS ANTENNAS NOT SHOWN FOR CLARITY.
 2. ELECT. EQUIPMENT AND HORIZONTAL UNISTRUTS ARE NOT SHOWN FOR CLARITY.

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



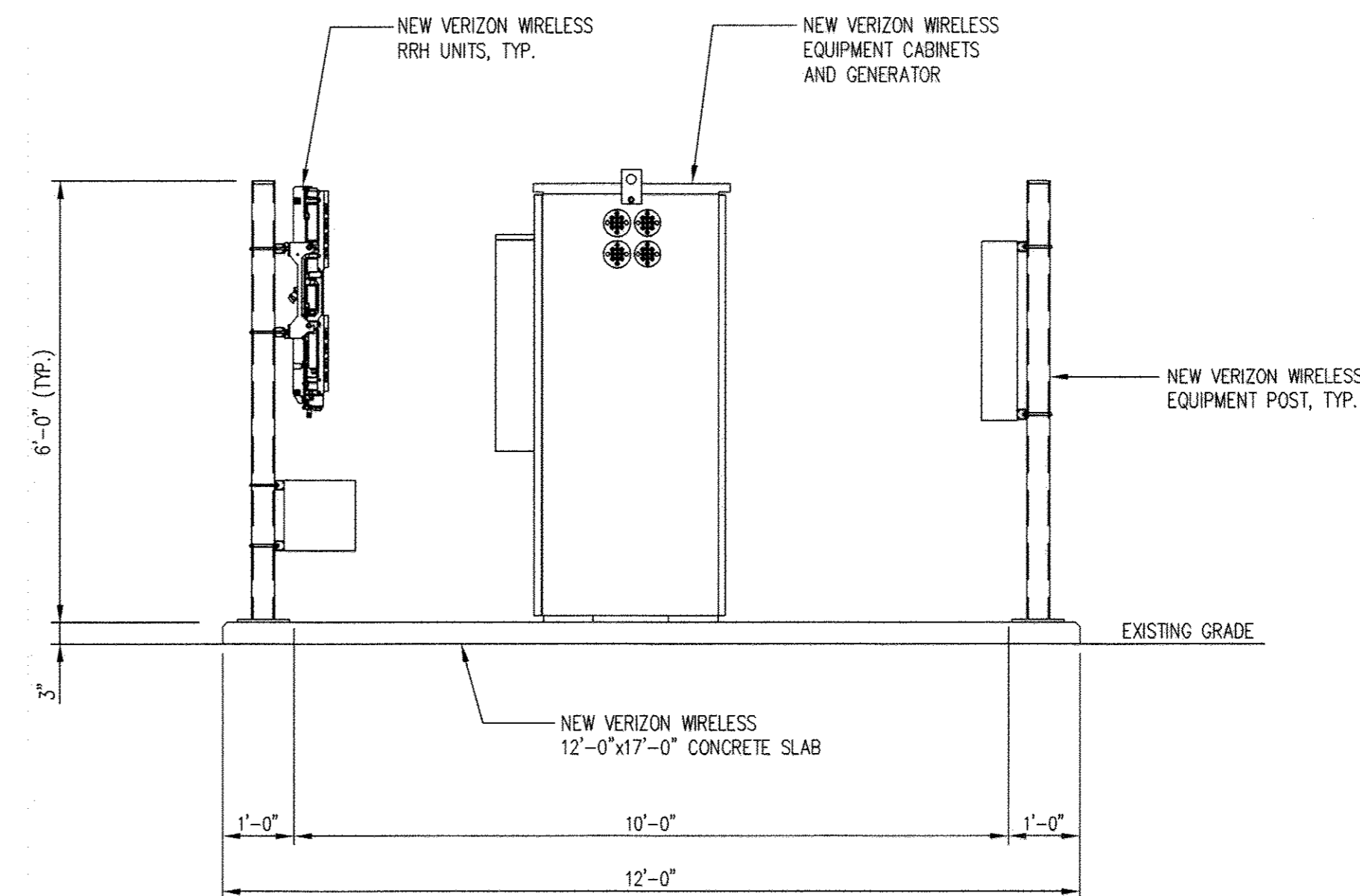
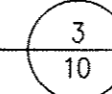
NOTES
 1. GPS ANTENNAS NOT SHOWN FOR CLARITY.
 2. RRHS AND HORIZONTAL UNISTRUTS ARE NOT SHOWN FOR CLARITY.

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



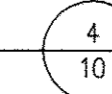
NOTES
 1. GPS ANTENNAS NOT SHOWN FOR CLARITY.

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



NOTES
 1. GPS ANTENNAS NOT SHOWN FOR CLARITY.

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



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Paul Plankton 2-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE

J. Marshall RKS 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT & DATE

Natalie P. Davis 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

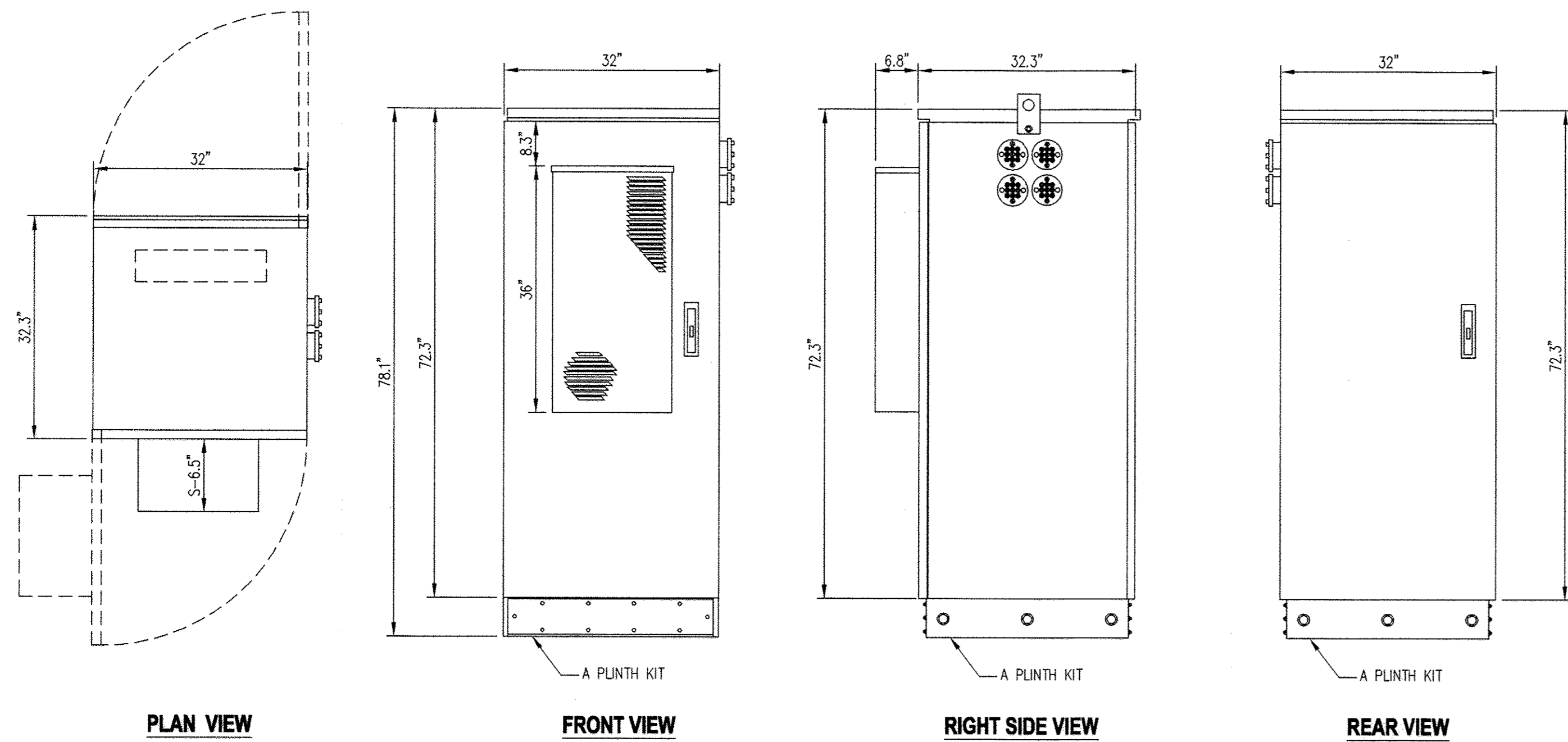
SUBMISSIONS/REVISIONS:
 NO. DESCRIPTION DATE

NO.	DESCRIPTION	DATE
SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

LAST REV.: 08-22-17
 PROJECT NO: 1102.211
 DATE: AUG. 22, 2017
 SCALE: AS NOTED

TITLE:
EQUIPMENT SLAB AND CANOPY ELEVATIONS

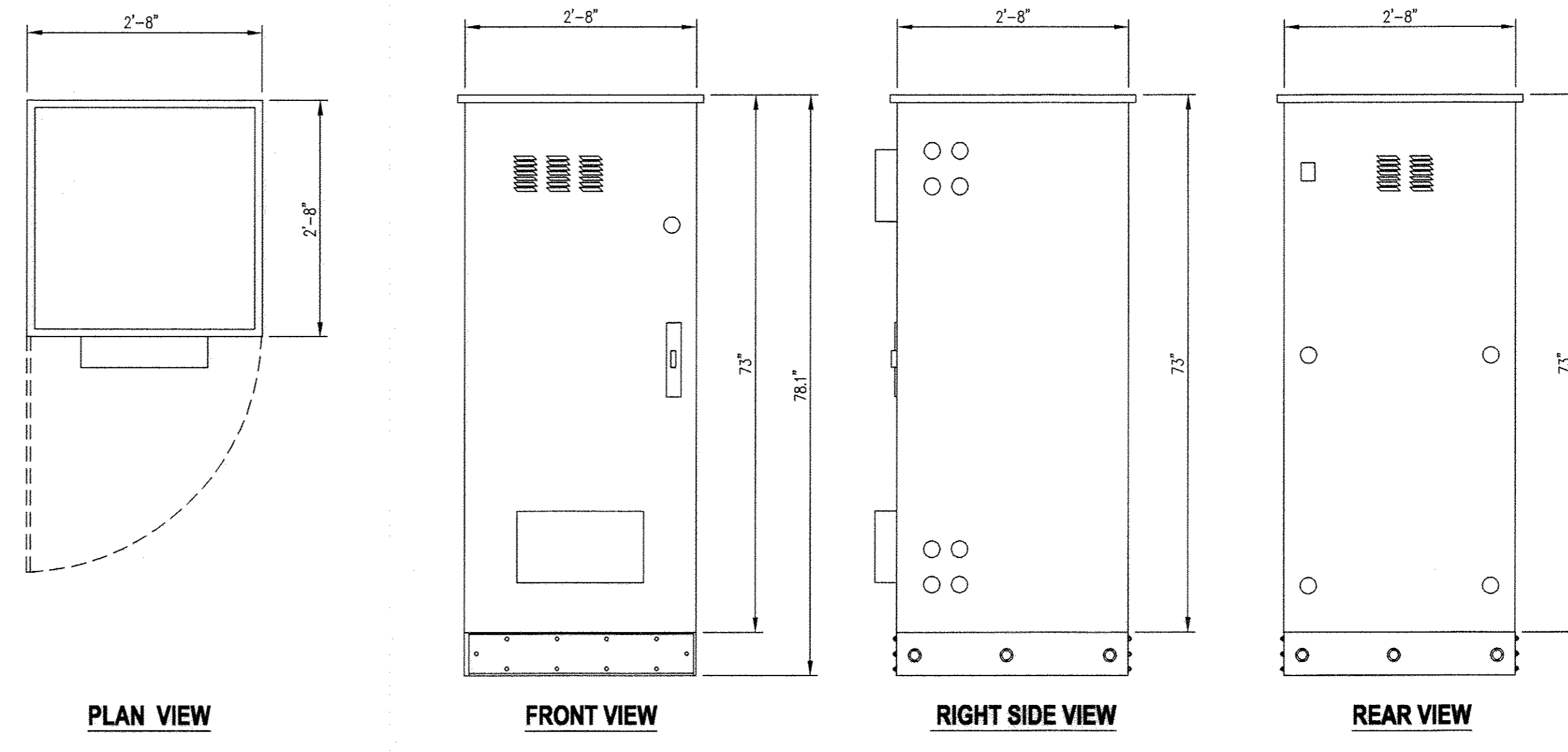
SHEET:
 10 of 13



CABINET WEIGHT = 1000 LBS
 CABINET VOLUME = 54 CF

CHARLES CONTROL CABINET DETAILS
 SCALE: 1/2"=1'-0"

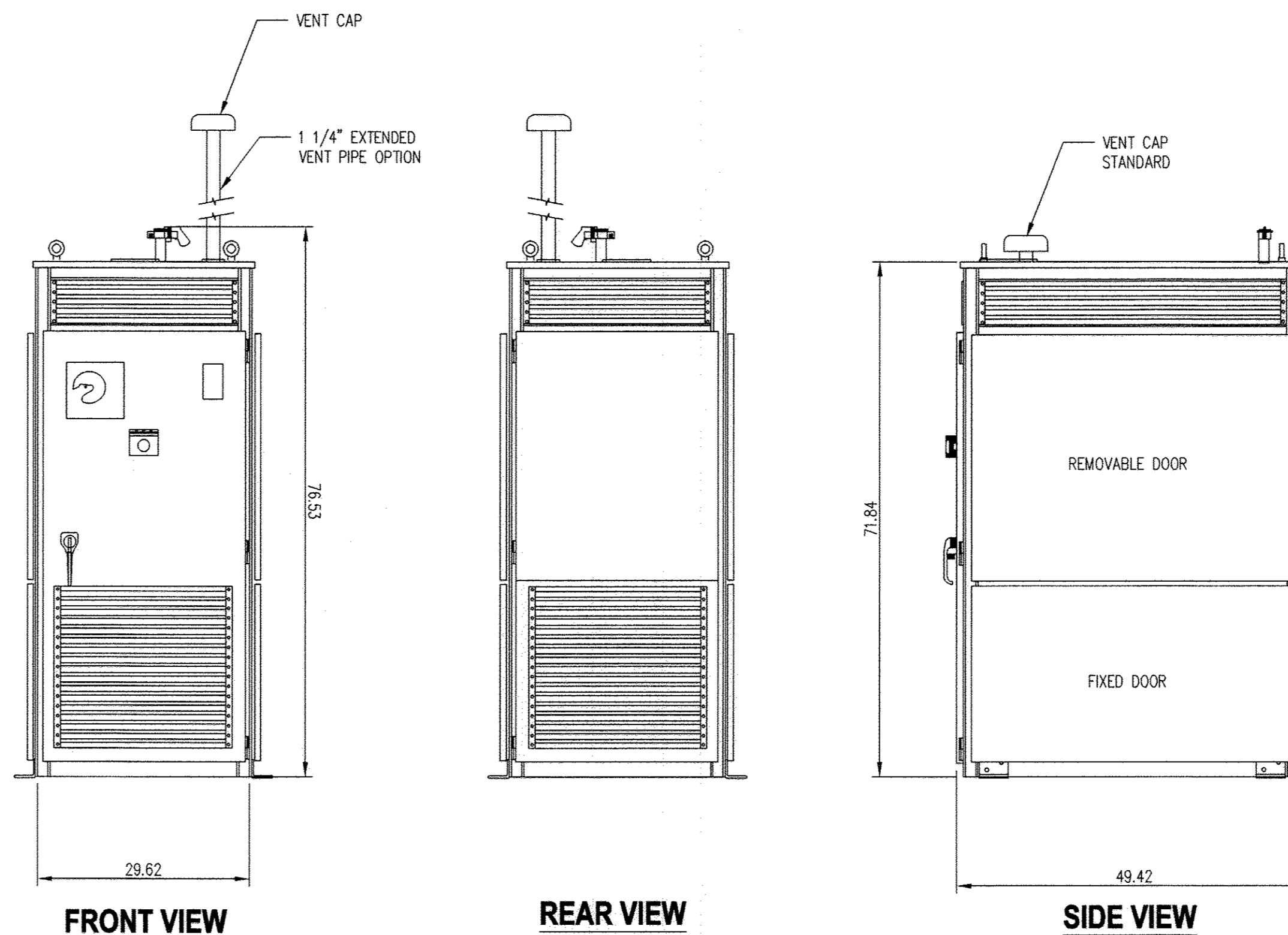
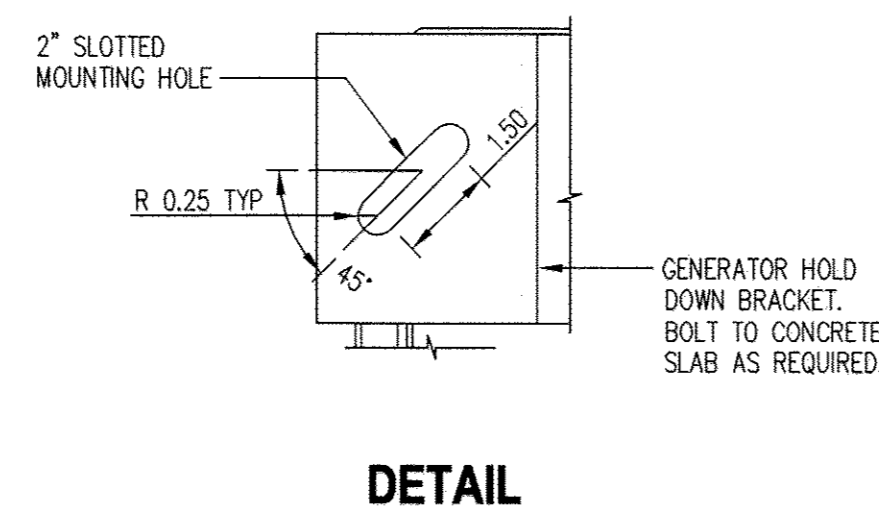
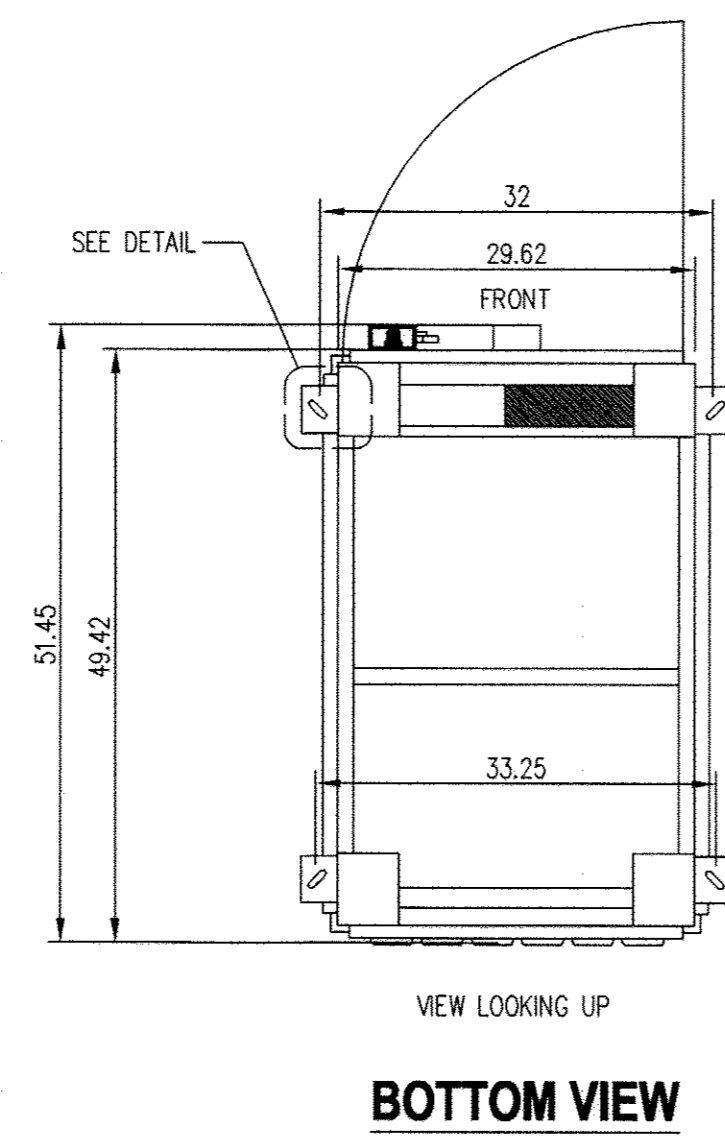
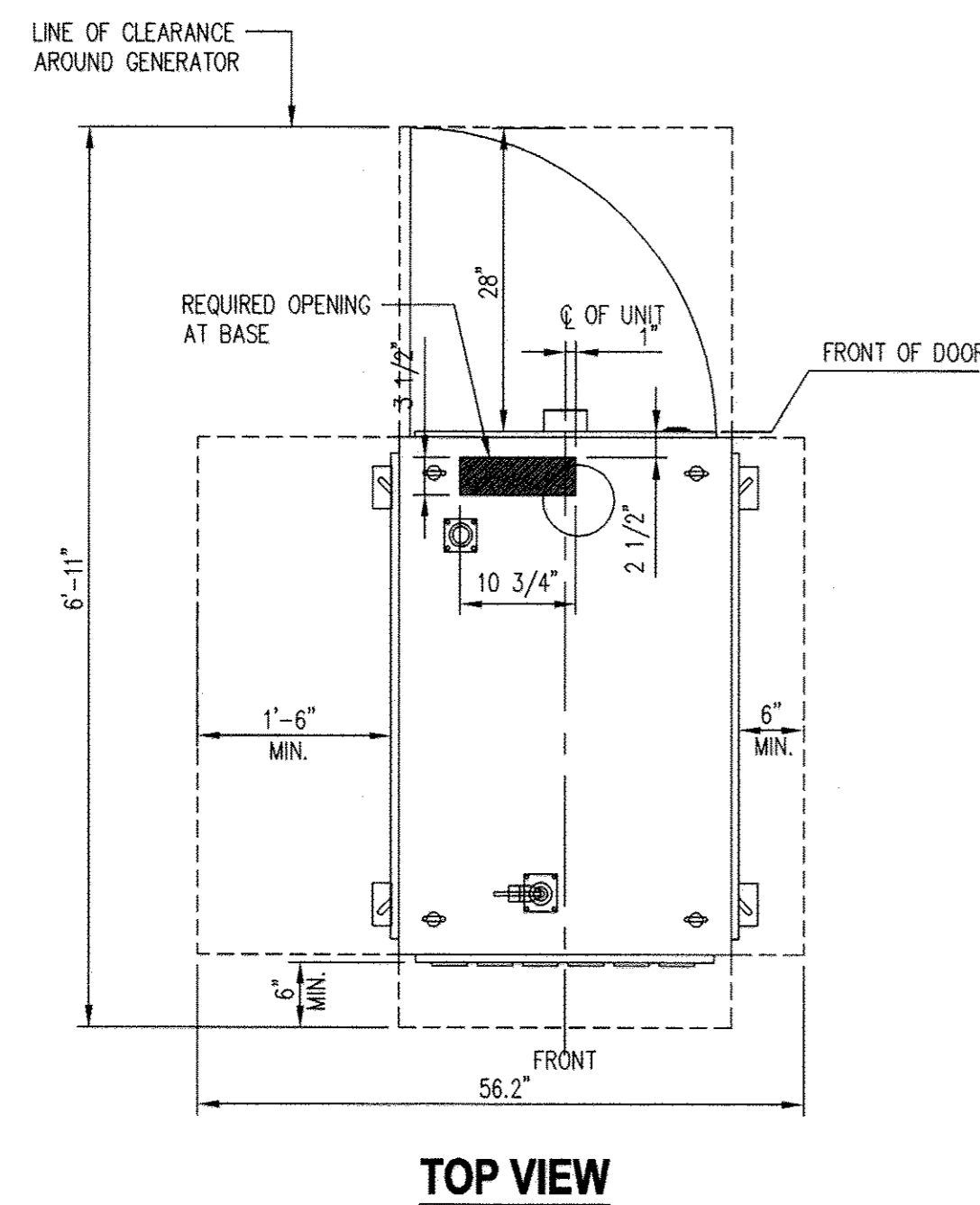
1
11



MODEL: CUBE-BB0LJ2HN1
 CABINET WEIGHT EMPTY = 900 LBS
 CABINET WEIGHT WITH BATTERIES = 3,450 LBS
 CABINET VOLUME = 44 CF

CHARLES BATTERY CABINET DETAILS
 SCALE: 3/4"=1'-0"

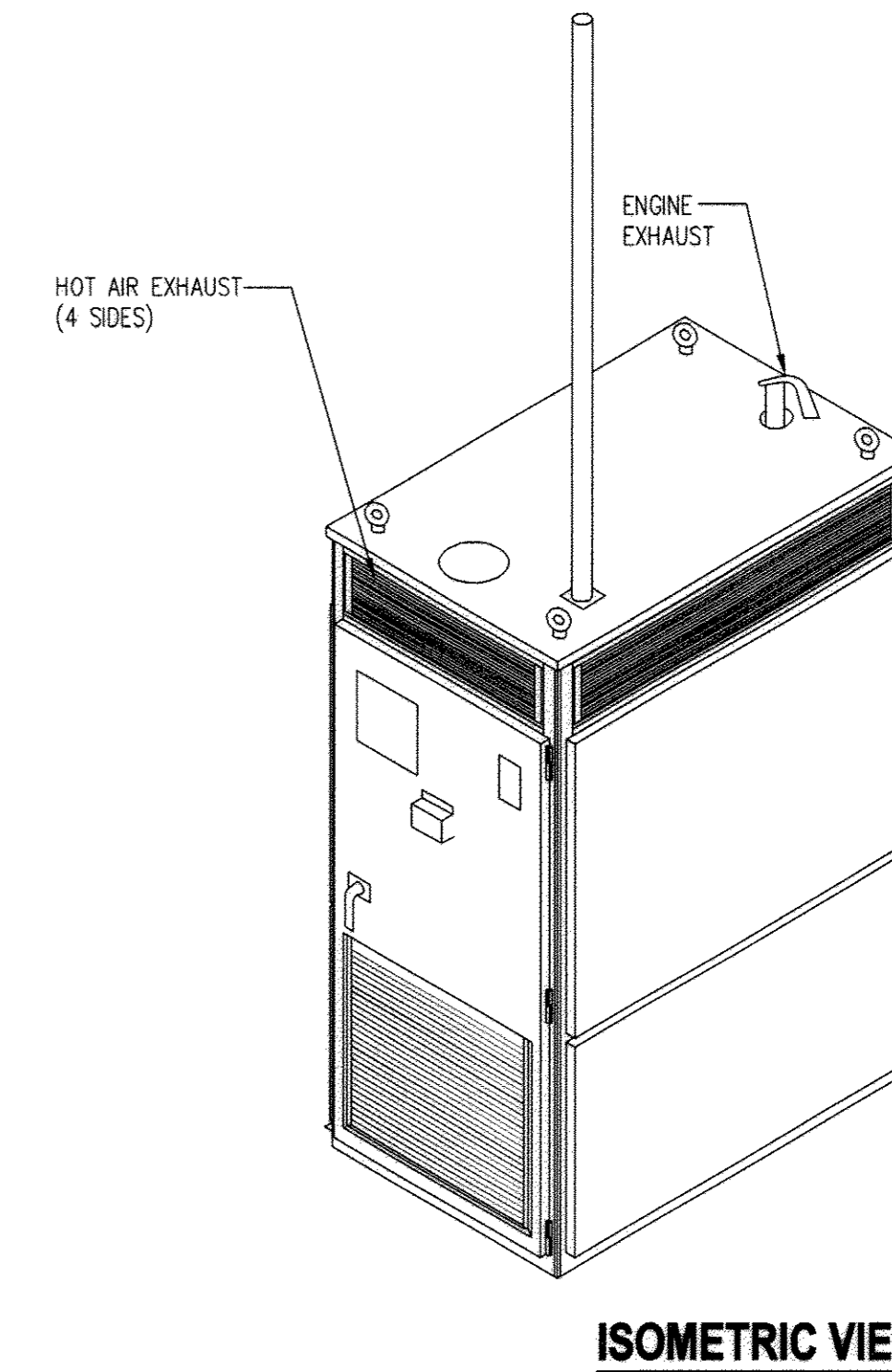
2
11



GENERATOR WEIGHT EMPTY = 1220 LBS
 GENERATOR WEIGHT WITH 55 GAL DIESEL FUEL = 1,660 LBS
 GENERATOR VOLUME = 61 CF

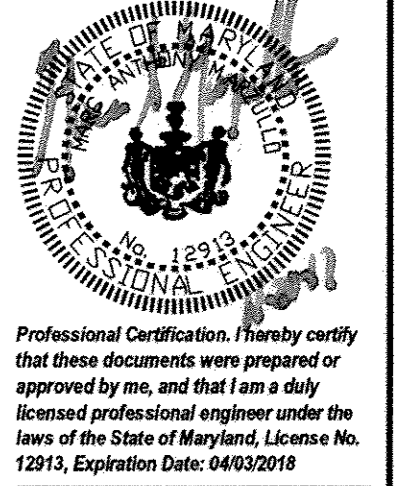
DIESEL POLAR - DC GENERATOR DETAILS
 SCALE: 3/4"=1'-0"

1
11



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 2-1-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE
 [Signature] 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT W DATE
 [Signature] 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE



VERIZON WIRELESS
 9000 JUNCTION DRIVE
 ANNAPOLIS JUNCTION, MD 20701
 PHONE: (301) 512-2000

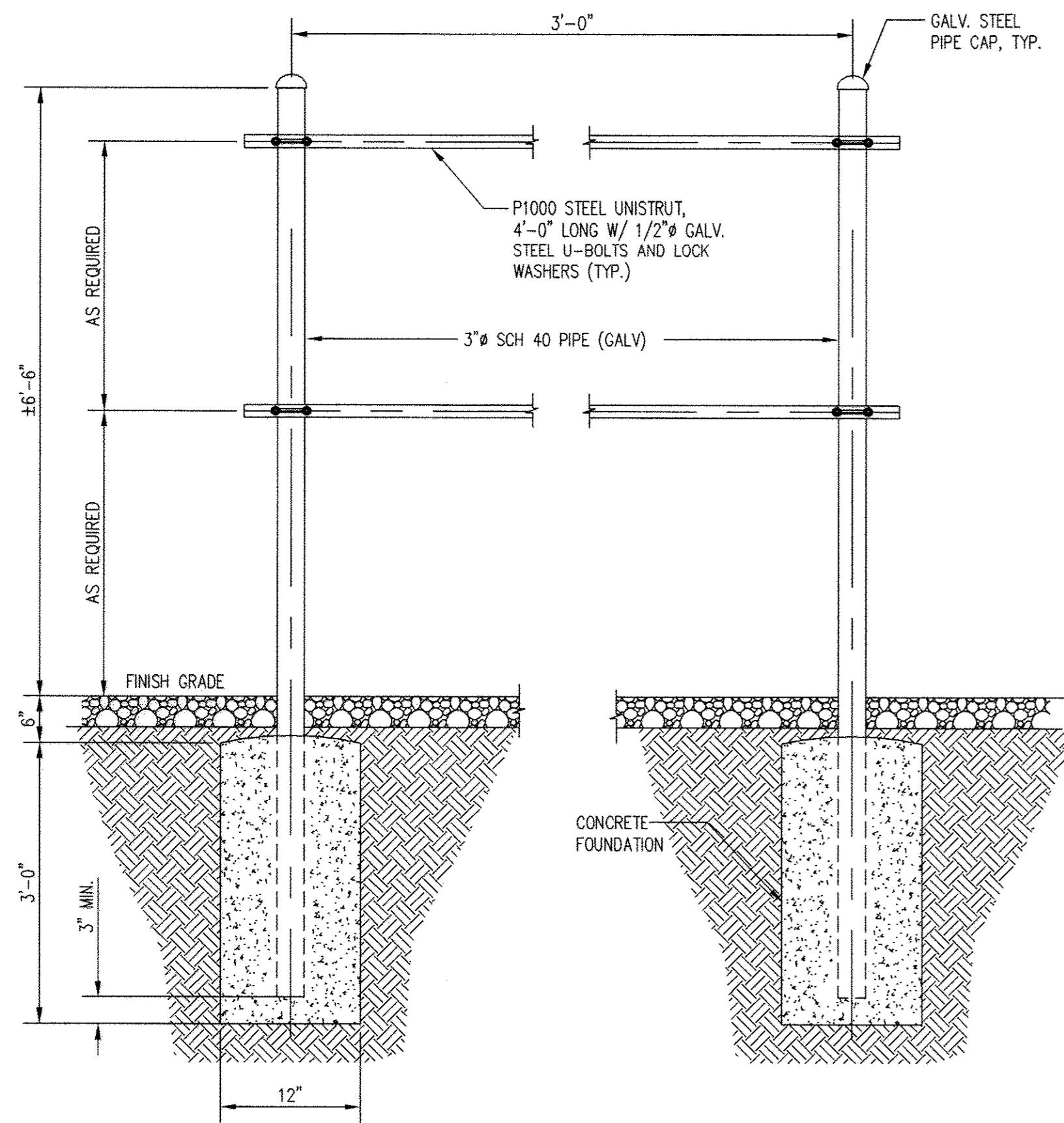
verizon
 NEW CUT - BGE TOWER 281A
 4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
 ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

SUBMISSIONS/REVISIONS:		
NO.	DESCRIPTION	DATE
SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

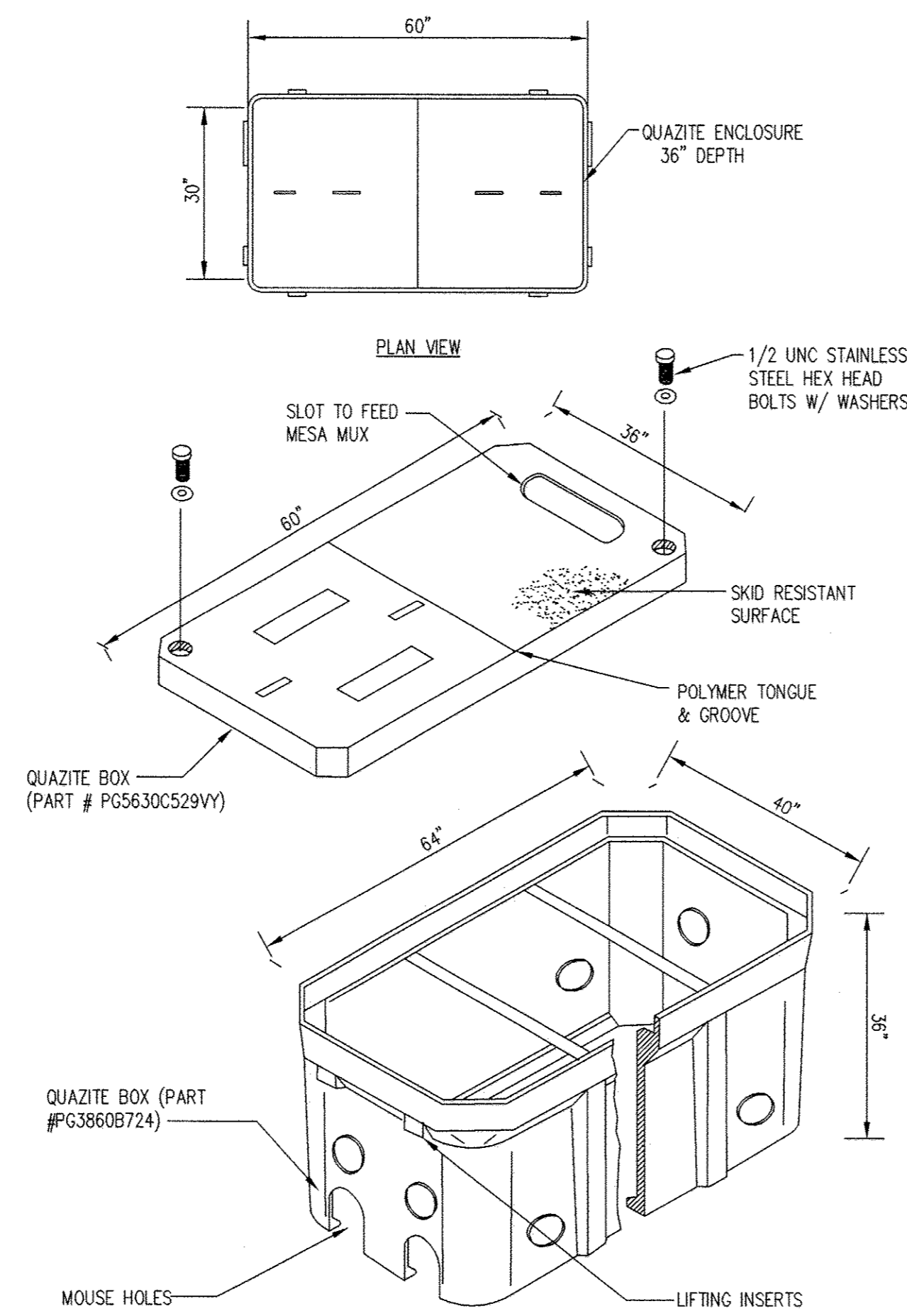
LAST REV.: 08-22-17
 PROJECT NO: 1102.211
 DATE: AUG. 22, 2017
 SCALE: AS NOTED

TITLE:
EQUIPMENT DETAILS

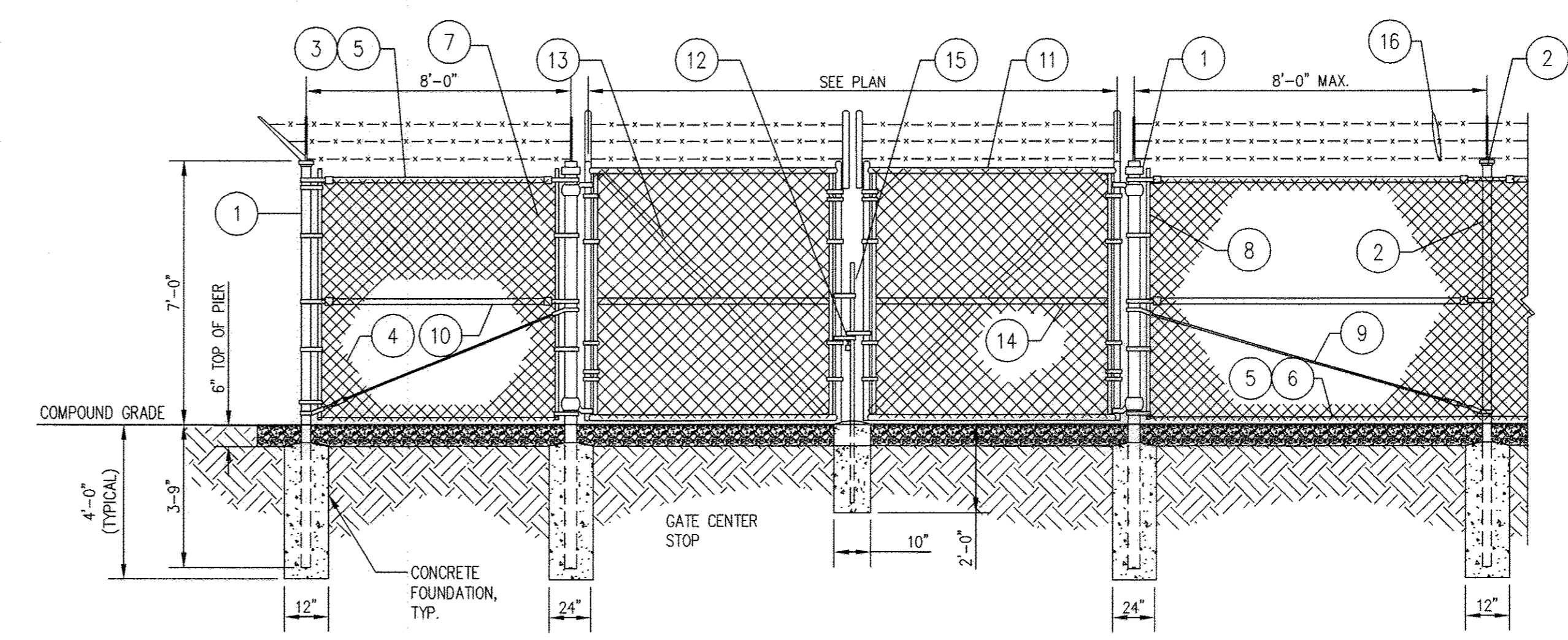
SHEET:
 11 of 13



FRONT ELEVATION
FIBER CABINETFRAME DETAIL
 SCALE: NTS

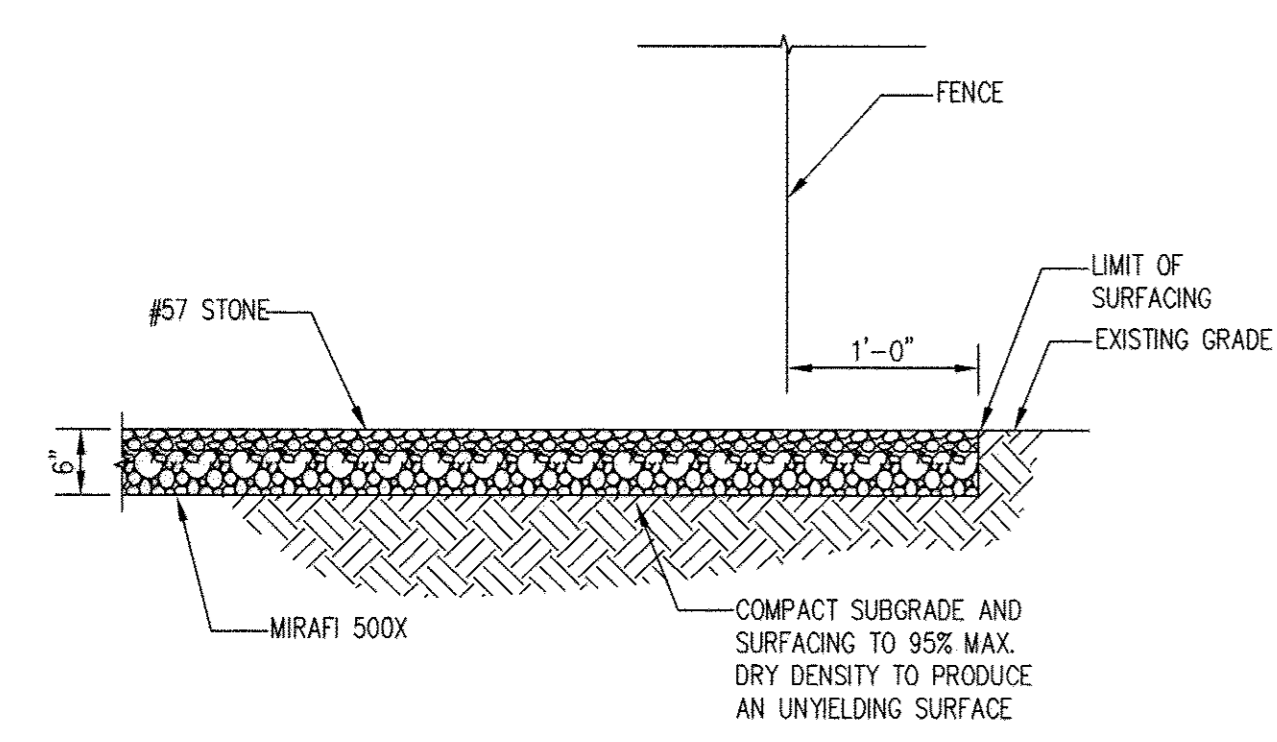


HAND HOLE QUAZITE BOX
 SCALE: 1/2"=1'-0"



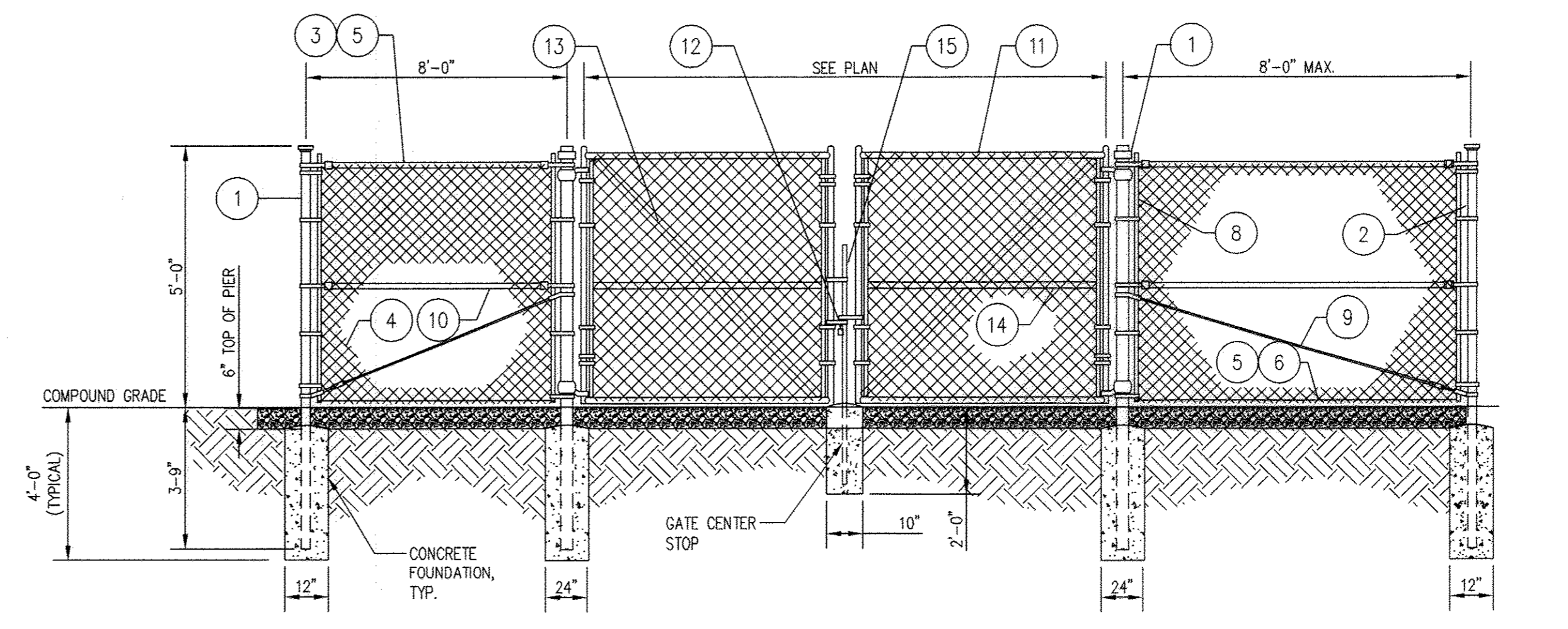
- REFERENCE NOTES:**
- CORNER, END OR PULL POST: 3" NOMINAL SCHEDULE 40 PIPE. GATE POST: 4" NOMINAL SCHEDULE 40 PIPE.
 - LINE POST: 2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
 - TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
 - FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
 - TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX. 24" INTERVALS.
 - TENSION WIRE: 9 GA. GALVANIZED STEEL.
 - COORDINATE SLAT COLOR WITH BGE
 - STRETCHER BAR.
 - 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
 - FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER EACH WAY.
 - GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
 - PROVIDE CHAIN. V2W WILL FURNISH COMBINATION LOCK
 - GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE.
 - GATE FRAME BRACE: 1 5/8" DIAMETER.
 - CENTER GATE STOP
 - BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH WITH FABRIC 14 GA, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- GENERAL NOTES:**
- INSTALL FENCING PER ASTM F-567
 - INSTALL SWING GATES PER ASTM F-900
 - FENCE PIPE AND COMPONENTS SHALL BE GALVANIZED.
 - GATE FRAMES SHALL BE WELDED. WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
 - POSTS SHALL HAVE END-CAPS.
 - GATES SHALL HAVE LOCKING HARDWARE.
 - PROVIDE GATE STOPS TO SECURE GATES IN OPEN POSITION.

COMPOUND FENCE AND GATE DETAIL
 SCALE: NOT TO SCALE



NOTE:
 1. SITE AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE LOOSE OR SOFT SOIL, ORGANIC MATERIAL OR RUBBLE TO FIRM GRADE. FILL UNDERCUT AND COMPACT UP TO 6" BELOW FINISH GRADE. PLACE A MIRAFI 500X SOIL STABILIZATION FABRIC ON SUBGRADE. FILL WITH 6" OF AASHTO 57 STONE TO FINISH GRADE.

COMPOUND SURFACING DETAIL
 SCALE: 1"=1'-0"



- REFERENCE NOTES:**
- CORNER, END OR PULL POST: 3" NOMINAL SCHEDULE 40 PIPE. GATE POST: 4" NOMINAL SCHEDULE 40 PIPE.
 - LINE POST: 2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
 - TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
 - FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
 - TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX. 24" INTERVALS.
 - TENSION WIRE: 9 GA. GALVANIZED STEEL.
 - NOT USED
 - STRETCHER BAR.
 - 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
 - FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER EACH WAY.
 - GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
 - PROVIDE CHAIN. V2W WILL FURNISH COMBINATION LOCK
 - GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE.
 - GATE FRAME BRACE: 1 5/8" DIAMETER.
 - CENTER GATE STOP
- GENERAL NOTES:**
- INSTALL FENCING PER ASTM F-567
 - INSTALL SWING GATES PER ASTM F-900
 - FENCE PIPE AND COMPONENTS SHALL BE GALVANIZED.
 - GATE FRAMES SHALL BE WELDED. WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
 - POSTS SHALL HAVE END-CAPS.
 - GATES SHALL HAVE LOCKING HARDWARE.
 - PROVIDE GATE STOPS TO SECURE GATES IN OPEN POSITION.

ELECTRIC SERVICE AREA FENCE AND GATE DETAIL
 SCALE: NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Edwards 2-1-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

J. M. ... 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

William ... 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12915, Expiration Date: 04/03/2018

VERIZON WIRELESS
 8000 JUNCTION DRIVE
 ANNAPOLIS, MARYLAND 20701
 PHONE: (301) 512-2000

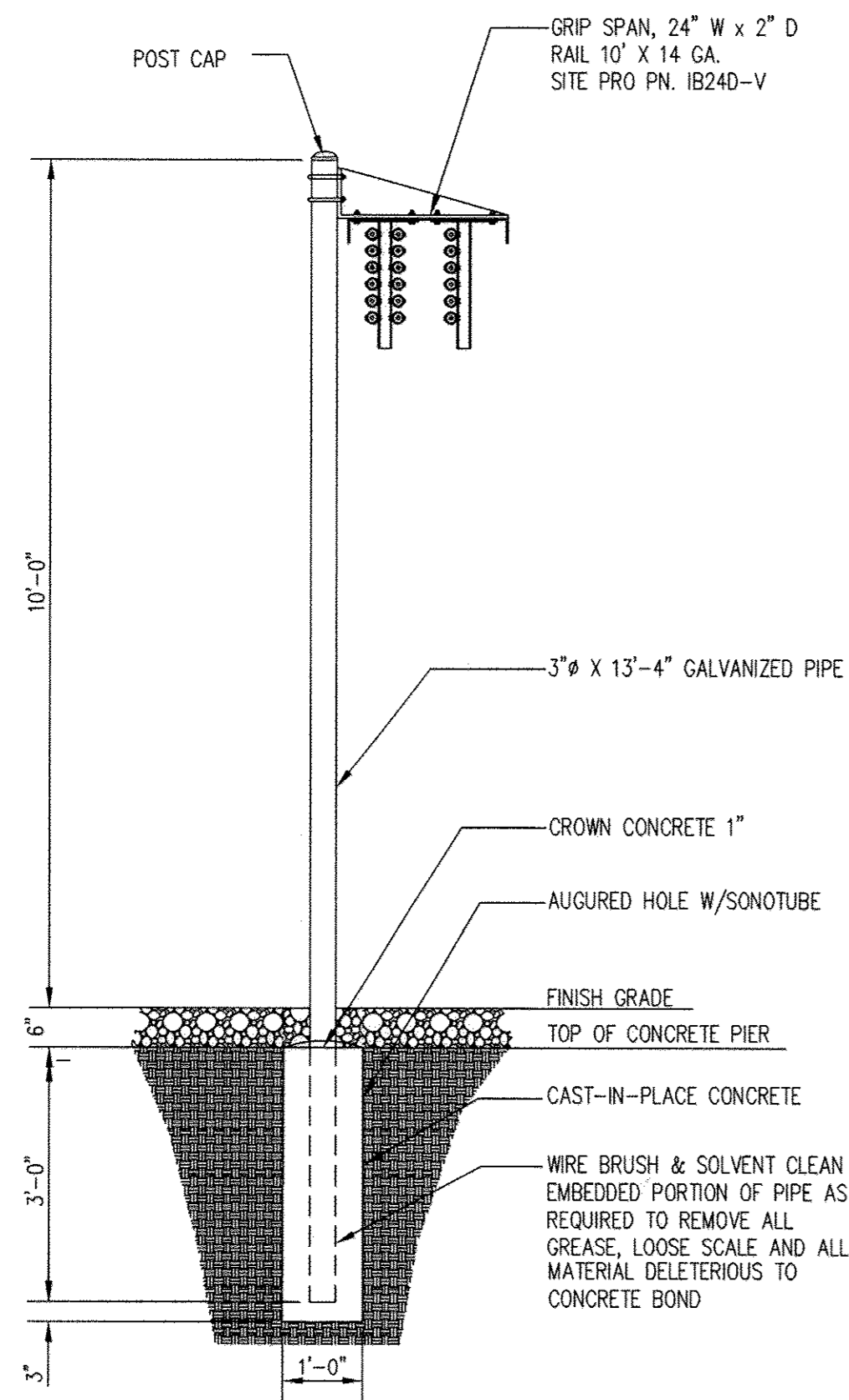
verizon
 NEW CUT- BGE TOWER 281A
 4646 DONCASTER DRIVE ZONED: R20 TAX MAP: 31 PARCEL: N/A
 ELLICOTT CITY, MD 21043 ELEC. DISTRICT NO: 2 HOWARD COUNTY, MD

SUBMISSIONS/REVISIONS:

NO.	DESCRIPTION	DATE
SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

LAST REV.: 08-22-17
 PROJECT NO: 1102.211
 DATE: AUG. 22, 2017
 SCALE: AS NOTED
 TITLE:

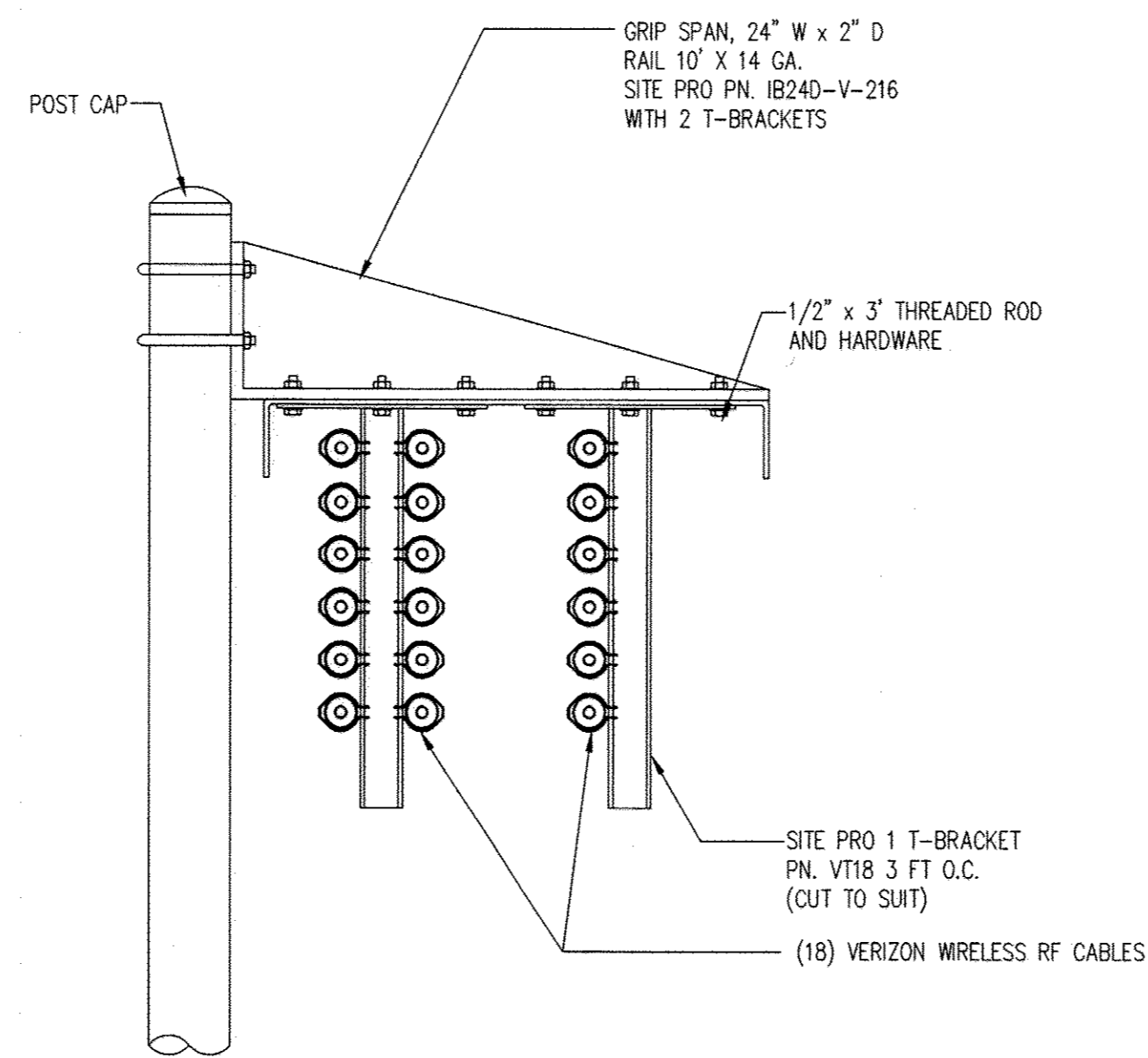
SITE DETAILS



ICE BRIDGE DETAIL

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

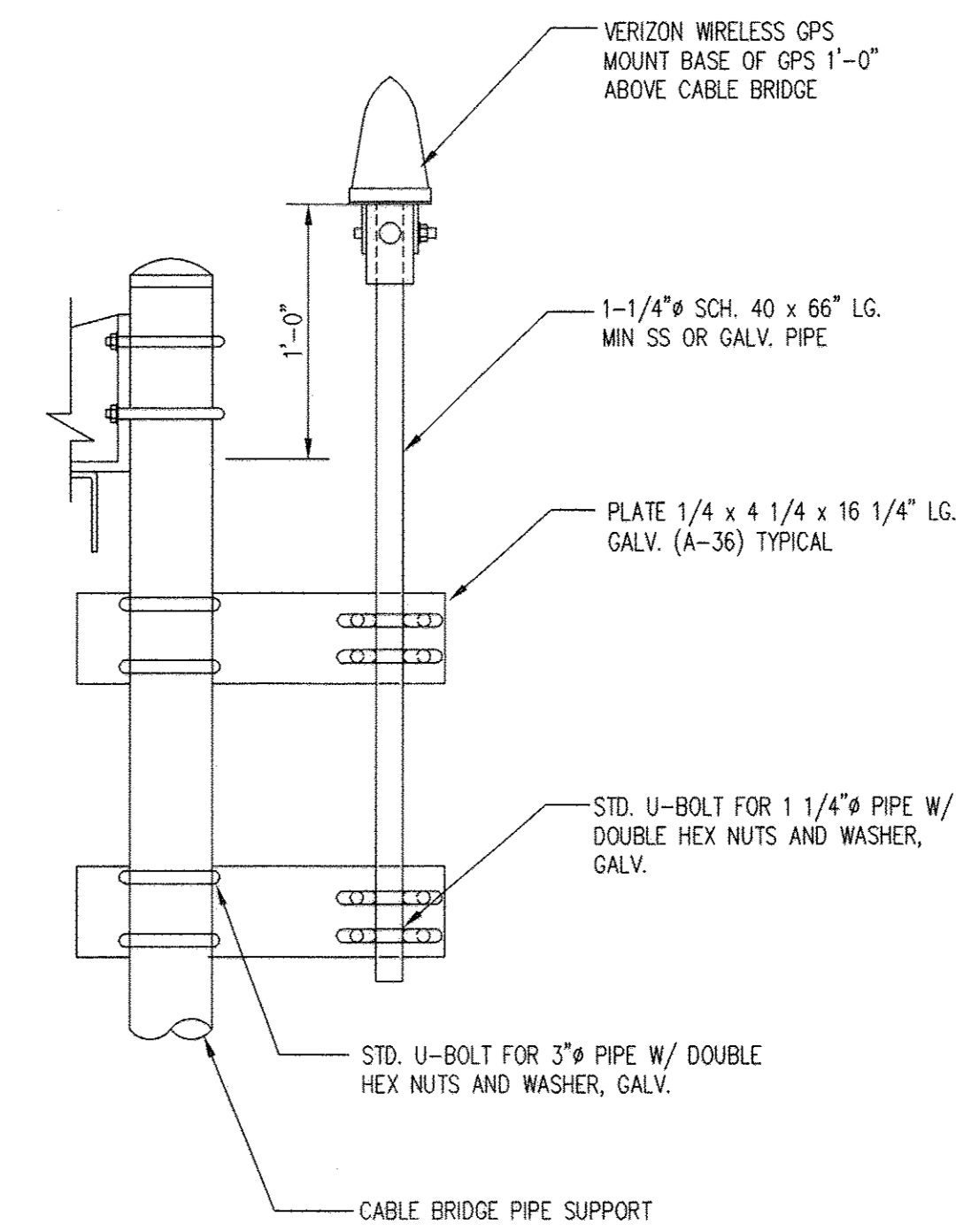
1
13



CABLE SUPPORT DETAIL

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

2
13



NOTE: GPS MOUNTING DETAIL IS TYPICAL FOR TWO GPS LOCATIONS.

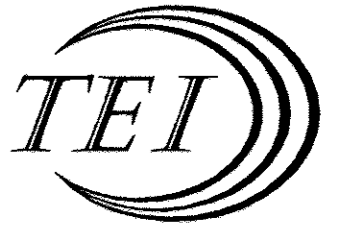
GPS MOUNTING DETAIL

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

3
13

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

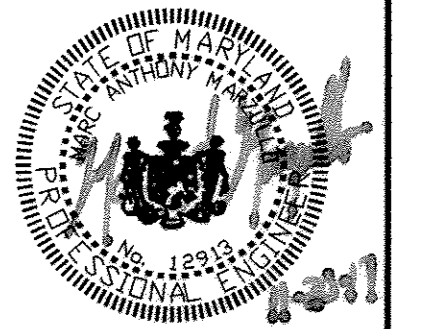
Chad Chubb 2-1-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY DATE
L. M. ... for KS 2-7-18
 CHIEF, DIVISION OF LAND DEVELOPMENT 66 DATE
V. ... 2-8-18
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE



TELECENT ENGINEERING, INC.
 2216 Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-492-0816
 www.teleng.com



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



Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12913, Expiration Date: 04/03/2018

VERIZON WIRELESS
 9000 JUNCTION DRIVE
 ANNAPOLIS JUNCTION, MD 20701
 PHONE: (301) 512-2000

verizon
 NEW CUT- BGE TOWER 281A
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SDP		11-20-17
SDP		11-16-17
SDP		08-22-17

LAST REV.: 08-22-17

PROJECT NO: 1102.211

DATE: AUG. 22, 2017

SCALE: AS NOTED

TITLE:

SITE DETAILS

SHEET: 13 of 13

SDP-16-073