

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

PUBLIC SERVICE
COMMISSION

In the Matter of:

THE APPLICATION OF)
CAPITAL TELECOM HOLDINGS LLC)
AND KENTUCKY RSA NO. 1 PARTNERSHIP)
d/b/a VERIZON WIRELESS)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF FULTON)

CASE NO.: 2019-00397

SITE NAME: CRUTCHFIELD

* * * * *

**NOTICE OF UPDATE TO
WIRELESS COMMUNICATIONS FACILITY CONSTRUCTION SPECIFICATIONS
INCIDENT TO REPLACEMENT OF TOWER AND FOUNDATION DAMAGES BY
WESTERN KENTUCKY TORNADO**

Comes Capital Telecom Holdings LLC and Kentucky RSA No. 1 Partnership, a Delaware General Partnership, d/b/a Verizon Wireless (“Applicants”), and by this filing do hereby provide Notice to the Commission of the following:

1. On December 20, 2019, the Commission issued an Order granting a Certificate of Public Convenience and Necessity (“CPCN”) approving construction of a wireless telecommunications facility, including a tower not to exceed 300 feet in height, with attached antennas, to be located at 1311 Clinton Moscow Road, Fulton County, Kentucky.
2. The subject wireless telecommunications facility, including tower, was constructed in June 2020.
3. On December 10, 2021, the subject tower and related wireless telecommunications facility ground equipment was catastrophically damaged by an EF4

tornado that devastated a large area across western Kentucky, including the wireless telecommunications facility site location.

4. Because of the damage, the subject wireless telecommunications facility, including tower, will need to be replaced to restore wireless communications service to the affected area.

5. Accordingly, the wireless telecommunications facility will be rebuilt in compliance with the CPCN issued on December 20, 2019.

6. Because of significant internal damage to the concrete pedestal foundation, a new tower foundation will be necessary in order to construct a replacement tower at the site. Additionally, the tornadic event caused the existing guyed anchors to move from their original location causing the overlaying soils to collapse/settle. Because of this, the existing guyed anchor locations are unsuitable for re-use and will need to be relocated.

7. A site development plan and a vertical profile sketch of the replacement wireless telecommunications facility, signed and sealed by a professional engineer registered in Kentucky, depicting the tower height and the proposed configuration for Verizon Wireless' antennas are attached as **Exhibit A**. **Exhibit A** replaces and supersedes the site development plan and vertical profile sketch submitted as part of the original application.

8. The practical changes to the site design, including relocation of the tower foundation and guyed anchors as described above and in **Exhibit A**, are necessary to accomplish reconstruction of the facility at the site location. Such changes are *de minimus* changes, with the foundation location being adjusted by less than 20 feet. Furthermore, all replacement structures will be located on the same parcel of property that was approved as

the construction location pursuant to the CPCN.

WHEREFORE, Applicants respectfully request that the Commission accept the foregoing Notice for filing to update the subject case record for the within case.

Respectfully submitted,



David A. Pike
Pike Legal Group, PLLC
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P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
Attorney for Applicants

LIST OF EXHIBITS

- A - Site Development Plan:
- Legal Descriptions
 - Flood Plain Certification
 - Site Plan
 - Vertical Tower Profile

EXHIBIT A
SITE DEVELOPMENT PLAN



Diamond Communications LLC

820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

FULTON, KY (CRUTCHFIELD)

1311 CLINTON MOSCOW ROAD
FULTON, KY 42041
FULTON COUNTY

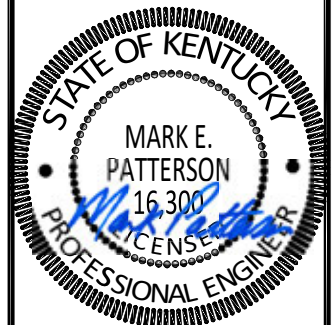
TENANT: KENTUCKY RSA NO. 1 PARTNERSHIP d/b/a VERIZON WIRELESS
EV CRUTCHFIELD

FROM EVANSVILLE MTSO: 800 RUSSELL ROAD CHANDLER, IN 47610: HEAD NORTH ON RUSSELL RD TOWARD GARDNER RD (0.2 MI). TURN LEFT ONTO GARDNER RD (1.6 MI). TURN LEFT ONTO IN-62 (4.2 MI). TURN RIGHT ONTO THE I-164 S RAMP (0.3 MI). MERGE ONTO I-69 S (8.1 MI). TAKE EXIT 0 TO MERGE ONTO US-41 S TOWARD HENDERSON KY (7.1 MI). KEEP LEFT TO STAY ON US-41 S (2.4 MI). KEEP LEFT TO CONTINUE ON PENNYRILE PKWY, FOLLOW SIGNS FOR OWENSBORO (1.1 MI). CONTINUE ONTO I-69/PENNYRILE PKWY (1.2 MI). CONTINUE ONTO PENNYRILE PKWY (39.1 MI). CONTINUE ONTO I-69/PENNYRILE PKWY (2.2 MI). KEEP RIGHT AT THE FORK TO STAY ON I-69, FOLLOW SIGNS FOR PADUCAH (38.4 MI). TAKE EXIT 68B FOR INTERSTATE 24 W TOWARD PADUCAH (0.3 MI). MERGE ONTO I-24 W/I-69 S (16.5 MI). TAKE EXIT 25A FOR PURCHASE PARKWAY S TOWARD FULTON (0.4 MI). MERGE ONTO PURCHASE PKWY S (26.9 MI). CONTINUE ONTO US-45 BYP S/PURCHASE PKWY S (3.0 MI). KEEP RIGHT TO CONTINUE ON US-45 BYP S/JULIAN M. CARROLL PURCHASE PKWY S, FOLLOW SIGNS FOR FULTON (0.4 MI). CONTINUE ONTO JULIAN M. CARROLL PURCHASE PKWY S/PURCHASE PKWY S (19.4 MI). TAKE EXIT 1 FOR US-51 N TOWARD FULTON/CLINTON (0.2 MI). TURN RIGHT ONTO US-51 N (SIGNS FOR CLINTON) (2.4 MI). TURN LEFT ONTO KY-94 W (3.6 MI). TURN RIGHT ONTO JEFFRESS RD (2.1 MI). TURN LEFT ONTO CLINTON MOSCOW RD (0.5 MI). SITE WILL BE LOCATED ON LEFT (SOUTH) SIDE OF ROAD.



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
**FULTON, KY
(CRUTCHFIELD)**
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX
REFERENCE ONLY

SHEET NUMBER:

T-1

NEW 295' GUYED TOWER w/5' LIGHTNING ARRESTOR TOTAL TOWER HEIGHT 300'

DIAMOND COMMUNICATIONS SITE FULTON, KY (CRUTCHFIELD) SITE #: KY007	POLICE FULTON COUNTY SHERIFF 2216 MYRON CORY DR # 4 HICKMAN, KY 42050 PHONE: (270) 236-2545
VERIZON WIRELESS SITE EV CRUTCHFIELD PROJECT#: 20151215225 MARKET ID: KY RSA 1 LOCATION CODE: 382052	FIRE FULTON CITY FIRE DEPARTMENT 340 BROWDER ST FULTON, KY 42041 PHONE: (270) 472-1422
E911 ADDRESS 1311 CLINTON MOSCOW RD FULTON, KY 42041 FULTON COUNTY	GENERAL INFORMATION LATITUDE : 36° 34' 48.41" N LONGITUDE : 88° 58' 49.13" W 1983 (NAD83) ELEVATION : 435± AMSL 1988 (NAVD88)
TOWER OWNER DIAMOND COMMUNICATIONS LLC CONTACT: VINCE CASIERO PHONE: (973) 544-6836 MOBILE: (973) 769-2384	DIAMOND COMMUNICATIONS LLC LEASE AREA 70'-0" x 70'-0" (4,900 SF)
PROPERTY OWNER GRAHAM FARM LAND, LLC 1758 STATE ROUTE 781 NORTH FULTON, KY 42041 CONTACT: JERRY GRAHAM PHONE: (270) 627-0374	PROJECT TOTAL DISTURBED AREA COMPOUND: (4,900 SF) = (0.11 ACRE) ACCESS DRIVE: (8,527 SF) = (0.20 ACRE) GROSS AREA: (13,427 SF) = (0.31 ACRE)

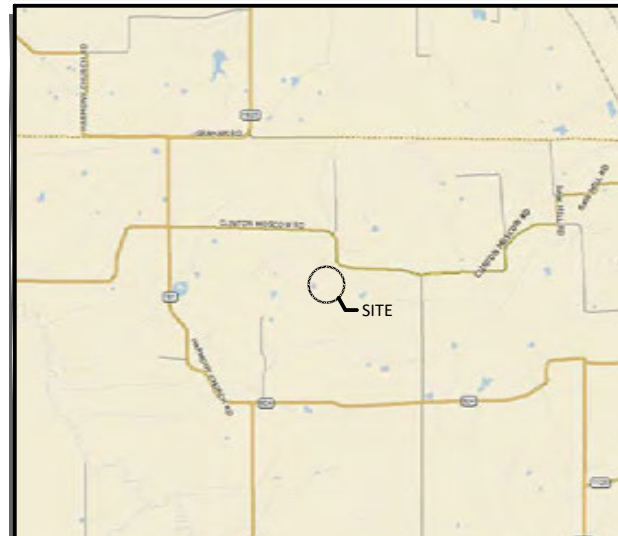
NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW: DIAMOND COMMUNICATIONS LLC SCOPE: • INSTALL A NEW 295' GUYED TOWER w/ 5' LIGHTNING ROD (TOTAL 300') • INSTALL A NEW TOWER FOUNDATION SYSTEM • INSTALL A NEW 68'x68' FENCED GRAVEL COMPOUND • INSTALL A NEW SITE H-FRAME • INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER • INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME • NO WATER OR SEWAGE SERVICES RUN TO SITE • INSTALL NEW TOWER & SITE GROUNDING SYSTEM • PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY. VERIZON WIRELESS SCOPE (VZW GC): • INSTALL A NEW 11'-6"x14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION • INSTALL VZW ICE BRIDGE AND FOUNDATIONS • INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER • INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT • INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES • INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE • INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES • INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT • INSTALL (2) 1-1/4" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN OWNER INSTALLED "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUITS
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES. BUILDING CODE 2018 KENTUCKY BUILDING CODE STRUCTURAL CODE TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2) MECHANICAL CODE 2012 INTERNATIONAL MECHANICAL CODE (IMC 2012) PLUMBING CODE KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20) ELECTRICAL CODE 2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70 FIRE/LIFE SAFETY CODE 2012 INTERNATIONAL FIRE CODE (2012 IFC) ENERGY CODE 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL) GAS CODE 2009 NATIONAL FUEL GAS CODE (NFPA 54) ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.
APPLICABLE CODES SURVEYOR POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252 ARCHITECTURAL POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252 ELECTRICAL GIBSON ELECTRIC MEMBERSHIP COOPERATIVE (GEMC) ADDRESS: 1702 MOSCOW AVE HICKMAN, KY 42050 CONTACT: REX COFFEY PHONE: (270) 627-3312 EMAIL: RCOFFEY@GIBSONEMC.COM

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.2	SITE SURVEY
R-1	REVISION LOG
TOWER ELEVATION	
TE-1	TOWER ELEVATION
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/DISTANCES TO PROPERTY LINES
C-1B	TOWER DISTANCE TO RESIDENTIAL STRUCTURES
C-2	GRADING AND E&S CONTROL PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
C-5	DETAILED EQUIPMENT PAD PLAN
C-6	GENERAL SITE CONSTRUCTION NOTES
C-7	BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES
SITE DETAILS	
D-1	FENCE DETAILS AND NOTES
D-2	SITE DETAILS
D-3	EQUIPMENT PAD & CANOPY ELEVATIONS (REFERENCE ONLY)
D-4	SITE FENCE SIGNAGE (REFERENCE ONLY)
STRUCTURAL	
S-1	FOUNDATION PLAN AND STRUCTURAL NOTES
S-2	FOUNDATION DETAILS
S-3	ICE BRIDGE DETAILS
ELECTRICAL	
E-0	OVERALL UTILITY LAYOUT
E-1	SITE UTILITY PLAN
E-2	EQUIPMENT PAD UTILITY PLAN & EQUIPMENT PAD TRENCH SECTIONS
E-3	PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS
E-4	ELECTRICAL DETAILS
E-5	OVP & ILC H-FRAME ELEVATIONS AND DETAILS
E-6	EQUIPMENT CABINET ELEVATIONS
E-7	EQUIPMENT PAD LIGHTING PLAN
GROUNDING	
G-1	GROUNDING SITE PLAN
G-2	GROUNDING NOTES
G-3	VERIZON WIRELESS GROUNDING PLAN AND NOTES
G-4	GROUNDING DETAILS
G-5	GROUNDING DETAILS
G-6	GROUNDING DETAILS
REFERENCE DRAWINGS	
RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
TOWER (BY OTHERS)	
TW-1	TOWER DETAILS (REFERENCE ONLY)
TW-2	TOWER DETAILS (REFERENCE ONLY)
TW-3	TOWER DETAILS (REFERENCE ONLY)

PROJECT SUMMARY

PROJECT DESCRIPTION

CONSULTANT TEAM



VICINITY MAP



LOCATION MAP



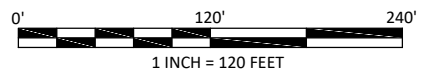
AERIAL

FAA COORDINATE POINT
 NAD 83
 LATITUDE: 36°34'48.405357"
 LONGITUDE: 88°58'49.128829"
 NAVD 88
 ELEVATION: 435'± AMSL
 NORTHING: 3387113.430
 EASTING: 3972771.019

GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE BOUNDARY AND TOPOGRAPHY WAS COLLECTED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.08' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009

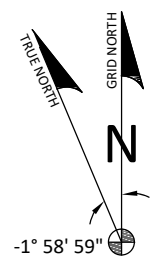
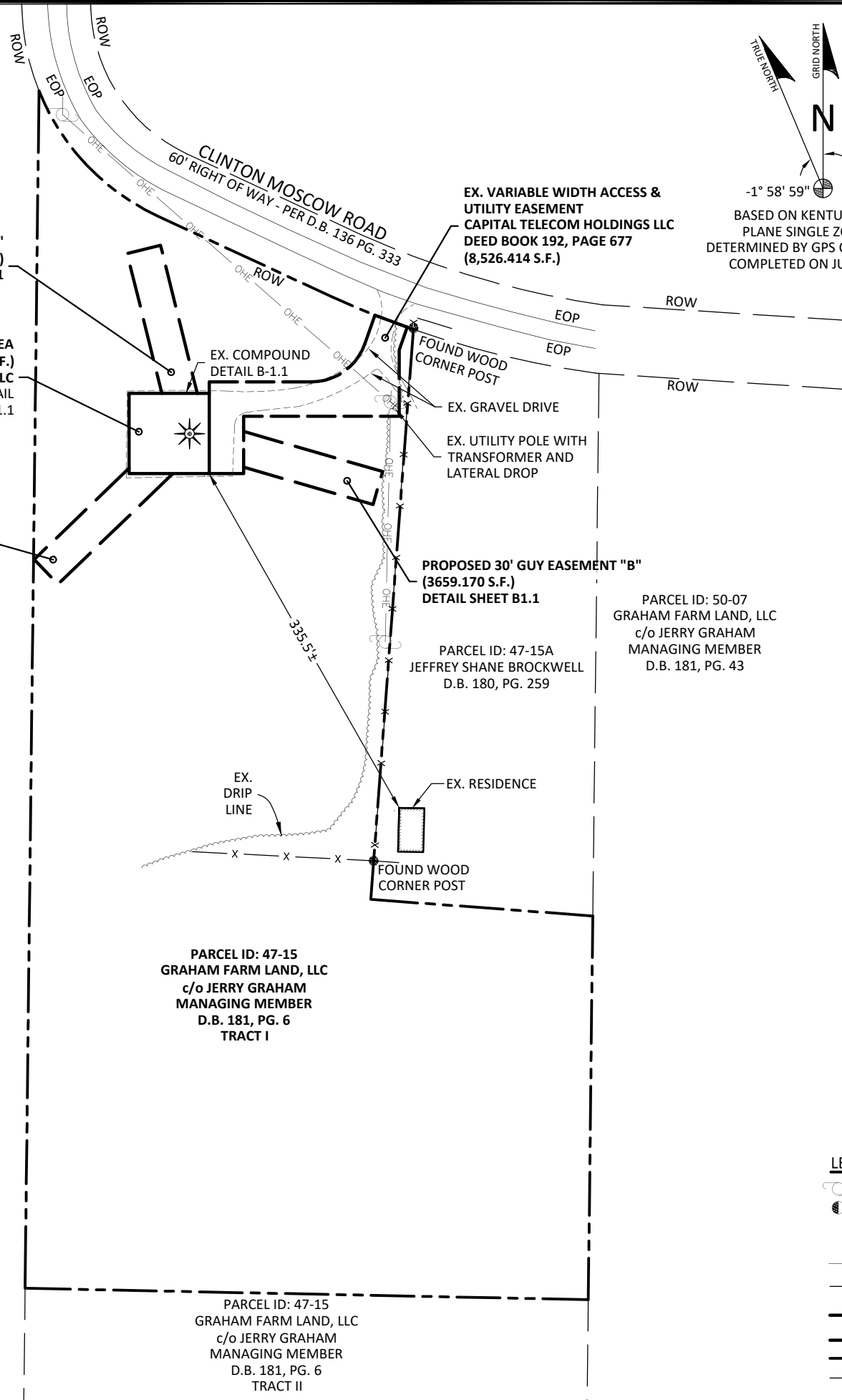
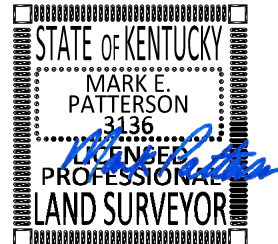
PARCEL ID: 47-15
 GRAHAM FARM LAND, LLC
 c/o JERRY GRAHAM
 MANAGING MEMBER
 D.B. 181, PG. 6
 TRACT III



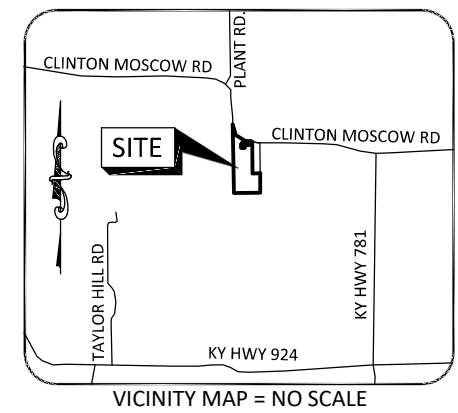
LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

Mark Patterson 02/21/2022
 MARK PATTERSON, PLS #3136 DATE



BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 5, 2016.



GENERAL NOTES

BASIS OF BEARING IS GPS OBSERVATIONS COMPLETED ON JULY 5, 2016.

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE EXISTING LEASE AREA, THE EXISTING VARIABLE WIDTH ACCESS & UTILITY EASEMENT AND THE PROPOSED 30' GUY EASEMENTS "A", "B" & "C" AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED. THIS DRAWING ALSO DEPICTS THE "AS-BUILT" LOCATION OF THE TOWER SITE AS OF JULY 7, 2020.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.07', FOR A PRECISION OF 1:39,571 AND HAS NOT BEEN ADJUSTED.

THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE EXISTING LEASE AREA AND THE EASEMENTS ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21075C0205D, DATED JUNE 2, 2011. THE PARENT PARCEL IS LOCATED IN ZONE X.

PARCEL ID: 47-15
 GRAHAM FARM LAND, LLC
 c/o JERRY GRAHAM
 MANAGING MEMBER
 D.B. 181, PG. 6
 TRACT I

PARCEL ID: 47-15
 GRAHAM FARM LAND, LLC
 c/o JERRY GRAHAM
 MANAGING MEMBER
 D.B. 181, PG. 6
 TRACT II

LEGEND

	UTILITY POLE	P.O.C.	POINT OF COMMENCEMENT
	GUY ANCHOR	P.O.B.	POINT OF BEGINNING
	ROW	ROW	RIGHT OF WAY
	EOP	EOP	EDGE OF PAVEMENT
	OHE		EX. OVERHEAD ELECTRIC
	X		EX. FENCE LINE
			FOUND 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
			FOUND MONUMENT AS NOTED
			PROPERTY LINE
			ADJACENT PROPERTY LINE



PREPARED FOR:

Diamond Communications

820 MORRIS TURNPIKE - SUITE 104
 SHORT HILLS, NJ 07078
 (973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
0	7.28.20	ISSUED AS FINAL
1	8.14.20	GUY ESMT A LEGAL
2	1.13.22	GUY ESMT
3	2.21.22	FAA COORDINATES

SITE INFORMATION:

FULTON, KY (CRUTCHFIELD)

1311 CLINTON MOSCOW ROAD
 FULTON, KY 42041
 FULTON COUNTY

TAX PARCEL NUMBER:
 47-15

PROPERTY OWNER:
 GRAHAM FARM LAND, LLC
 c/o JERRY GRAHAM
 MANAGING MEMBER
 1758 STATE ROUTE 781 N
 FULTON, KY 42041

SOURCE OF TITLE:
 DEED BOOK 181, PAGE 6

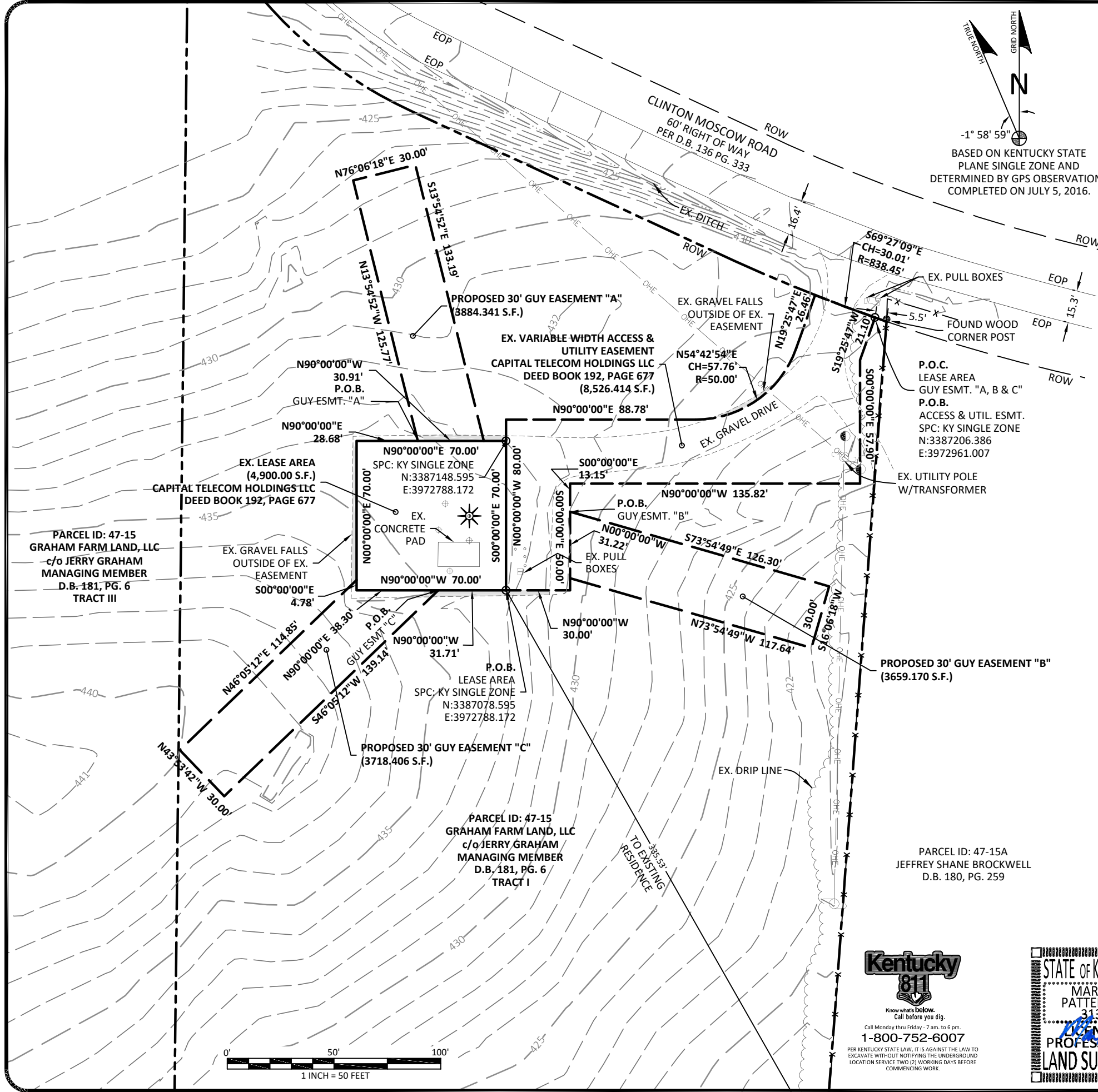
VERIZON WIRELESS SITE NAME:
 EV CRUTCHFIELD

POD NUMBER: 22-118809
 DRAWN BY: JRS
 CHECKED BY: MEP
 SURVEY DATE: 07.07.20
 PLAT DATE: 01.13.22

SHEET TITLE:
AS-BUILT SURVEY

THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER:
B-1



GENERAL NOTES

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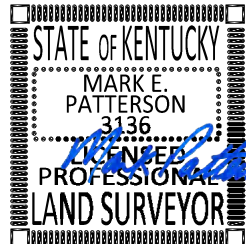
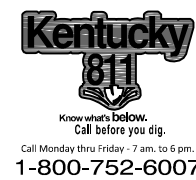
NAD 83
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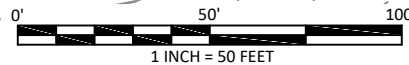
- UTILITY POLE
- GUY ANCHOR
- EX. TEST PORT
- OHE
- EX. OVERHEAD ELECTRIC
- EX. FENCE LINE
- FOUND 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- ROW RIGHT OF WAY
- EOP EDGE OF PAVEMENT

LAND SURVEYOR'S CERTIFICATE

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MARK PATTERSON, PLS #3136 DATE 02/21/2022



PREPARED FOR:

Diamond Communications

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 c/o JERRY GRAHAM
 MANAGING MEMBER
 1758 STATE ROUTE 781 N
 FULTON, KY 42041

SOURCE OF TITLE:
 DEED BOOK 181, PAGE 6

VERIZON WIRELESS SITE NAME:
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SHEET TITLE:
AS-BUILT SURVEY
 THIS DOES NOT REPRESENT A
 BOUNDARY SURVEY OF THE
 PARENT PARCEL

SHEET NUMBER:
B-1.1

EXISTING LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE EXISTING LEASE AREA GRANTED FROM THE PROPERTY OF GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JULY 5, 2016.

COMMENCING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", WITH A STATE PLANE COORDINATE, KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NORTH: 3387206.386 & EAST: 3972961.007 AND LYING ON THE SOUTHERLY RIGHT OF WAY OF CLINTON MOSCOW ROAD, WHICH HAS A 60' RIGHT OF WAY AS DESCRIBED IN DEED BOOK 136 PAGE 333 AND BEING IN THE NORTHERN LINE OF PROPERTY CONVEYED TO GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, SAID POINT BEING THE NORTHEASTERLY CORNER OF THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT; THENCE LEAVING SAID RIGHT OF WAY AND TRaversing THE LAND OF SAID GRAHAM FARM S19°25'47"W 21.10'; THENCE S00°00'00"E 57.90'; THENCE N90°00'00"W 135.82'; THENCE S00°00'00"E 50.00'; THENCE N90°00'00"W 30.00' TO A SET IPC IN THE SOUTHEAST CORNER OF THE LEASE AREA, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE, NORTH: 3387078.595 & EAST: 3972788.172; THENCE N90°00'00"W 70.00' TO A SET IPC; THENCE N00°00'00"E 70.00' TO A SET IPC; THENCE N90°00'00"E 70.00' TO A SET IPC; THENCE S00°00'00"E 70.00' TO **THE POINT OF BEGINNING** OF THE EXISTING LEASE AREA, CONTAINING 4,900.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 5, 2016.

EXISTING VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE EXISTING VARIABLE WIDTH ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY OF GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JULY 5, 2016.

COMMENCING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", WITH A STATE PLANE COORDINATE, KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NORTH: 3387206.386 & EAST: 3972961.007 AND LYING ON THE SOUTHERLY RIGHT OF WAY OF CLINTON MOSCOW ROAD, WHICH HAS A 60' RIGHT OF WAY AS DESCRIBED IN DEED BOOK 136 PAGE 333 AND BEING IN THE NORTHERN LINE OF PROPERTY CONVEYED TO GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, SAID POINT BEING THE NORTHEASTERLY CORNER OF THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT; THENCE LEAVING SAID RIGHT OF WAY AND TRaversing THE LAND OF SAID GRAHAM FARM S19°25'47"W 21.10'; THENCE S00°00'00"E 57.90'; THENCE N90°00'00"W 135.82'; THENCE S00°00'00"E 50.00'; THENCE N90°00'00"W 30.00' TO A SET IPC IN THE SOUTHEAST CORNER OF THE LEASE AREA, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE, NORTH: 3387078.595 & EAST: 3972788.172; THENCE N00°00'00"W 80.00' (PASSING A SET IPC AT 70.00'); THENCE N90°00'00"E 88.78'; THENCE WITH THE CHORD OF A CURVE TO THE RIGHT HAVING A RADIUS OF 50.00', N54°42'54"E 57.76; THENCE N19°25'47"E 26.46' TO THE SOUTHERLY RIGHT OF WAY OF CLINTON MOSCOW ROAD; THENCE WITH SAID RIGHT OF WAY WITH THE CHORD OF A NON-TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 838.45', S69°27'09"E 30.01' TO THE POINT OF BEGINNING, CONTAINING 8,526.414 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 5, 2016.

PROPOSED 30' GUY EASEMENT "A"

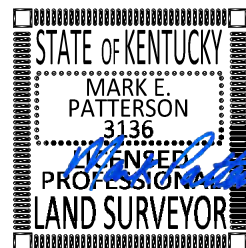
THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' GUY EASEMENT "A" TO BE GRANTED FROM THE PROPERTY OF GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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COMMENCING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", WITH A STATE PLANE COORDINATE, KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NORTH: 3387206.386 & EAST: 3972961.007 AND LYING ON THE SOUTHERLY RIGHT OF WAY OF CLINTON MOSCOW ROAD, WHICH HAS A 60' RIGHT OF WAY AS DESCRIBED IN DEED BOOK 136 PAGE 333 AND BEING IN THE NORTHERN LINE OF PROPERTY CONVEYED TO GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, SAID POINT BEING THE NORTHEASTERLY CORNER OF THE EXISTING VARIABLE WIDTH ACCESS AND UTILITY EASEMENT; THENCE LEAVING SAID RIGHT OF WAY AND TRaversing THE LAND OF SAID GRAHAM FARM S19°25'47"W 21.10'; THENCE S00°00'00"E 57.90'; THENCE N90°00'00"W 135.82'; THENCE S00°00'00"E 50.00'; THENCE N90°00'00"W 30.00' TO A SET IPC IN THE SOUTHEAST CORNER OF THE EXISTING LEASE AREA, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE, NORTH: 3387078.595 & EAST: 3972788.172; THENCE N90°00'00"W 70.00' TO A SET IPC; THENCE WITH SAID LEASE AREA, N00°00'00"E 70.00' TO A SET IPC; THENCE N90°00'00"E 28.68' TO **THE POINT OF BEGINNING** OF THE PROPOSED 30' GUY EASEMENT "A"; THENCE LEAVING SAID LEASE AREA, N13°54'52"W 125.77'; THENCE N76°06'18"E 30.00'; THENCE S13°54'52"E 133.19' TO THE NORTH LINE OF THE EXISTING LEASE AREA; THENCE N90°00'00"W 30.91' TO THE POINT OF BEGINNING, CONTAINING 3,884.341 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 5, 2015.

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.



Mark Patterson 02/21/2022
 MARK PATTERSON, PLS #3136 DATE

PROPOSED 30' GUY EASEMENT "B"

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' GUY EASEMENT "B" TO BE GRANTED FROM THE PROPERTY OF GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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COMMENCING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", WITH A STATE PLANE COORDINATE, KENTUCKY STATE PLANE COORDINATE SYSTEM, KENTUCKY SINGLE ZONE, NORTH: 3387206.386 & EAST: 3972961.007 AND LYING ON THE SOUTHERLY RIGHT OF WAY OF CLINTON MOSCOW ROAD, WHICH HAS A 60' RIGHT OF WAY AS DESCRIBED IN DEED BOOK 136 PAGE 333 AND BEING IN THE NORTHERN LINE OF PROPERTY CONVEYED TO GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, SAID POINT BEING THE NORTHEASTERLY CORNER OF THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT; THENCE LEAVING SAID RIGHT OF WAY AND TRaversing THE LAND OF SAID GRAHAM FARM S19°25'47"W 21.10'; THENCE S00°00'00"E 57.90'; THENCE N90°00'00"W 135.82'; THENCE S00°00'00"W 13.15 TO **THE POINT OF BEGINNING** OF THE PROPOSED 30' GUY EASEMENT "B"; THENCE LEAVING SAID ACCESS AND UTILITY EASEMENT, S73°54'49"E 126.30'; THENCE S16°06'18"W 30.00'; THENCE N73°54'49"W 117.64' TO SOUTHEASTERLY CORNER OF THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT; THENCE N00°00'00"W 31.22' TO THE POINT OF BEGINNING, CONTAINING 3,659.170 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 5, 2016.

PROPOSED 30' GUY EASEMENT "C"

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' GUY EASEMENT "C" TO BE GRANTED FROM THE PROPERTY OF GRAHAM FARM LAND, LLC c/o JERRY GRAHAM MANAGING MEMBER AS RECORDED IN DEED BOOK 181, PAGE 6, PARCEL ID: 47-15, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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PREPARED FOR:

820 MORRIS TURNPIKE - SUITE 104
 SHORT HILLS, NJ 07078
 (973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
0	7.28.20	ISSUED AS FINAL
1	8.14.20	GUY ESMT A LEGAL
2	1.13.22	GUY ESMT
3	2.21.22	FAA COORDINATES

SITE INFORMATION:
FULTON, KY (CRUTCHFIELD)
 1311 CLINTON MOSCOW ROAD
 FULTON, KY 42041
 FULTON COUNTY
 TAX PARCEL NUMBER:
 47-15
 PROPERTY OWNER:
 GRAHAM FARM LAND, LLC
 c/o JERRY GRAHAM
 MANAGING MEMBER
 1758 STATE ROUTE 781 N
 FULTON, KY 42041
 SOURCE OF TITLE:
 DEED BOOK 181, PAGE 6

VERIZON WIRELESS SITE NAME:
 EV CRUTCHFIELD
 POD NUMBER: 22-118809
 DRAWN BY: JRS
 CHECKED BY: MEP
 SURVEY DATE: 07.07.20
 PLAT DATE: 01.13.22

SHEET TITLE:
AS-BUILT SURVEY
 THIS DOES NOT REPRESENT A
 BOUNDARY SURVEY OF THE
 PARENT PARCEL

SHEET NUMBER:
B-1.2

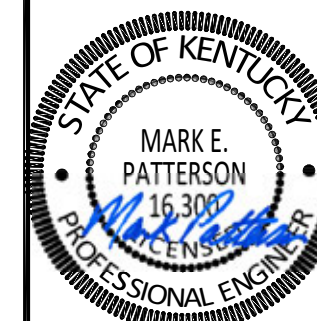
REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER & NAME	DESCRIPTION OF REVISION
A	1/18/2017	ALL SHEETS	ISSUED FOR REVIEW
0	2/16/2017	ALL SHEETS	ISSUED AS FINAL
1	3/1/2018	T-1, TE-1, G-6, RF-1, AD-1, AD-3, AD-4, AD-5, & AD-6	MOUNT CHANGE REDLINES PER RFDS DATED 1/16/18
2	1/31/2020	T-1, TE-1, C-1, C-1A, C-1B, C-3, C-4, C-5, C-6, D-2, D-3, S-1, S-2, S-3, E-1, E-2, E-3, E-4, E-5, G-1, G-2, G-3, G-5, G-6, & RF-1	UPDATED STANDARDS
2	1/31/2020	S-4, E-0, E-6, & E-7	SHEETS ADDED
2	1/31/2020	AD SHEETS: T-1, AD-1, AD-2, AD-3, AD-4, AD-5, & AD-6	SHEETS DELETED
3	1/21/2022	ALL SHEETS	TOWER REPLACEMENT DUE TO TORNADO
4	2/21/2022	T-1, SURVEY	CORRECTED TOWER COORDINATES



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
**FULTON, KY
(CRUTCHFIELD)**
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

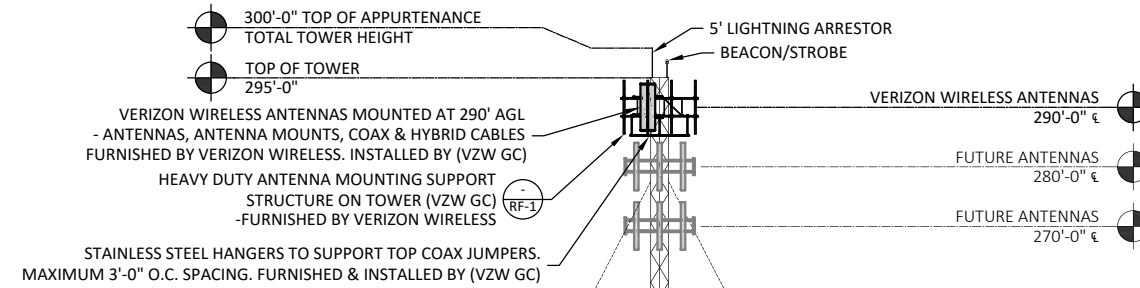
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CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

REVISION LOG

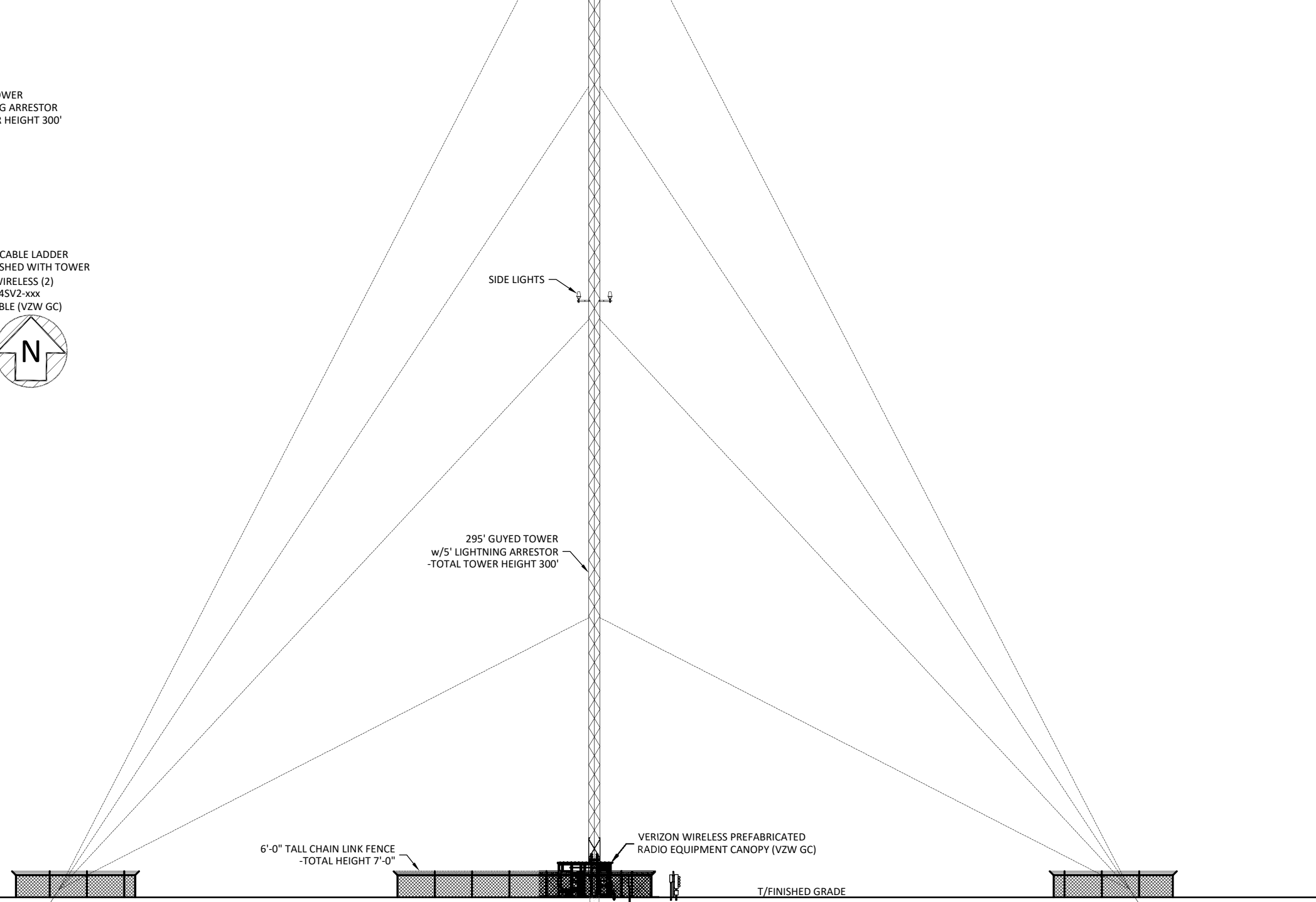
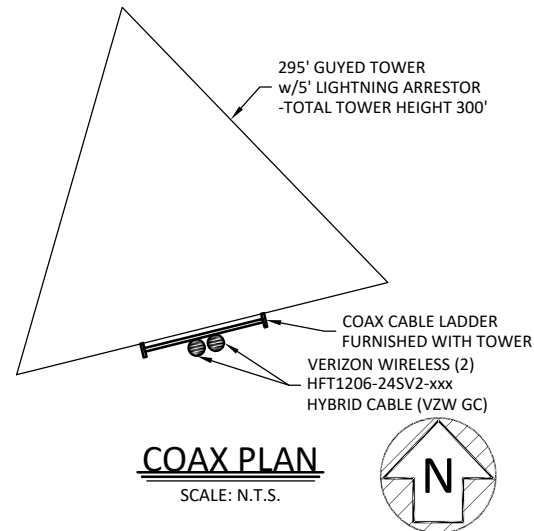
SHEET NUMBER:

R-1



NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY KENTUCKY RSA NO. 1 PARTNERSHIP d/b/a VERIZON WIRELESS (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.
3. FAA FORM 7460-2, PART 2, NOTICE OF ACTUAL CONSTRUCTION OR ALTERATION, IS REQUIRED TO BE E-FILED ANY TIME THE PROJECT IS ABANDONED OR WITHIN 5 DAYS AFTER CONSTRUCTION REACHES ITS GREATEST HEIGHT.



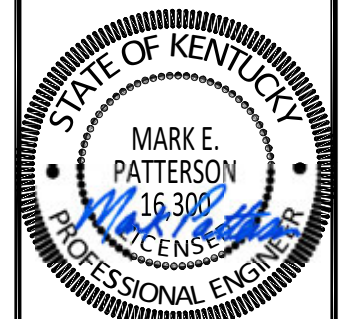
TOWER ELEVATION
SCALE: N.T.S.

1
TE-1



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

**CONSTRUCTION
DRAWINGS**

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
**FULTON, KY
(CRUTCHFIELD)**
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:

TE-1

POD
 POWER OF DESIGN
 11490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 502-437-5252

Diamond
 Communications LLC

820 MORRIS TURNPIKE - STE 104
 SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
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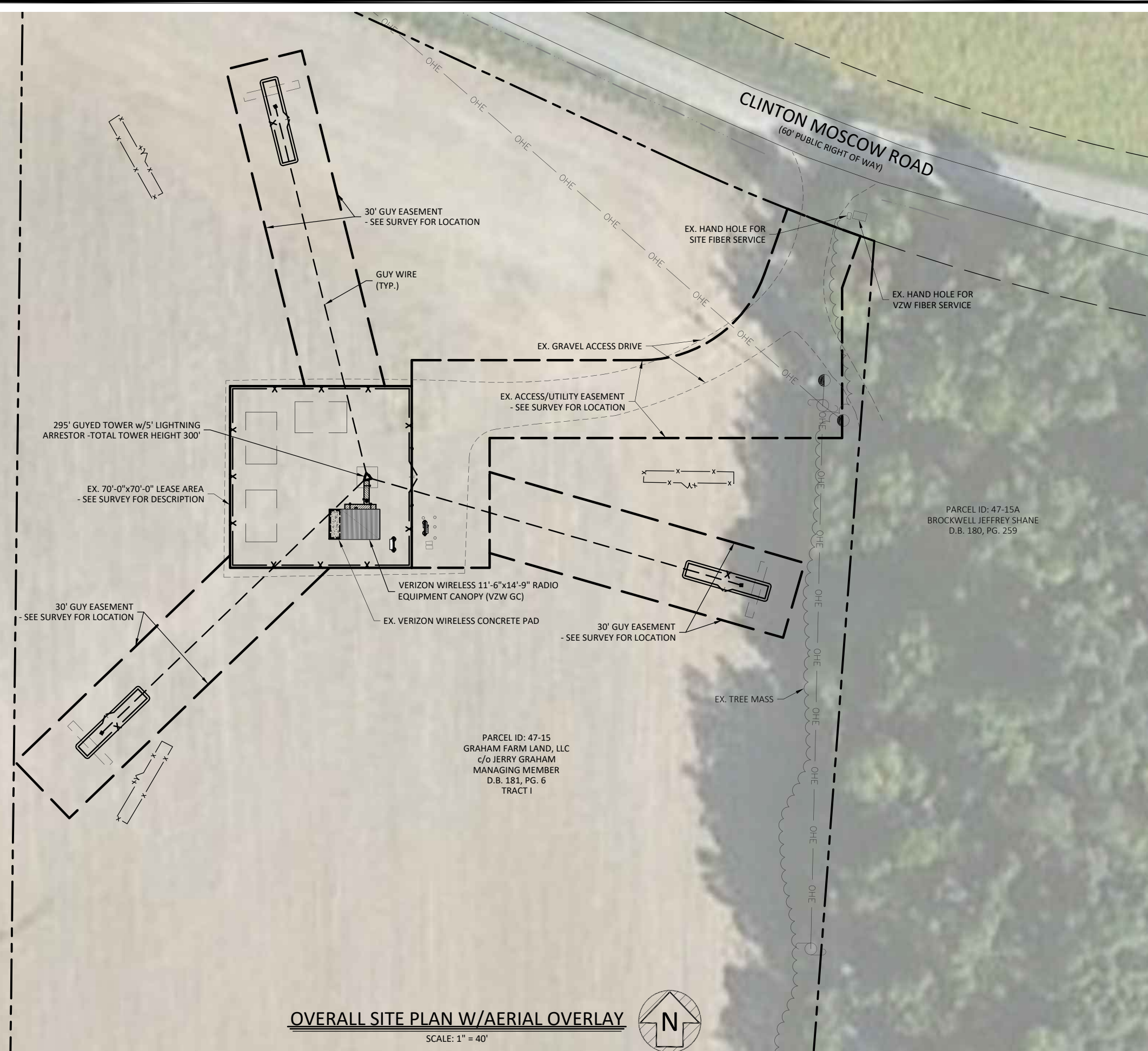
POD NUMBER: 21-118223

DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.17.17

SHEET TITLE:

OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:
C-1



Kentucky 811
 Know what's below.
 Call before you dig.
 Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

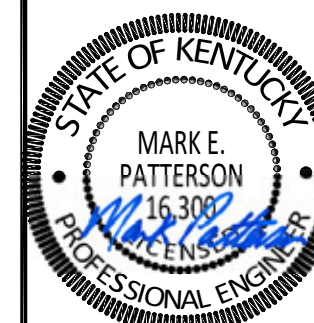
OVERALL SITE PLAN W/AERIAL OVERLAY
 SCALE: 1" = 40'





820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
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3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
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1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

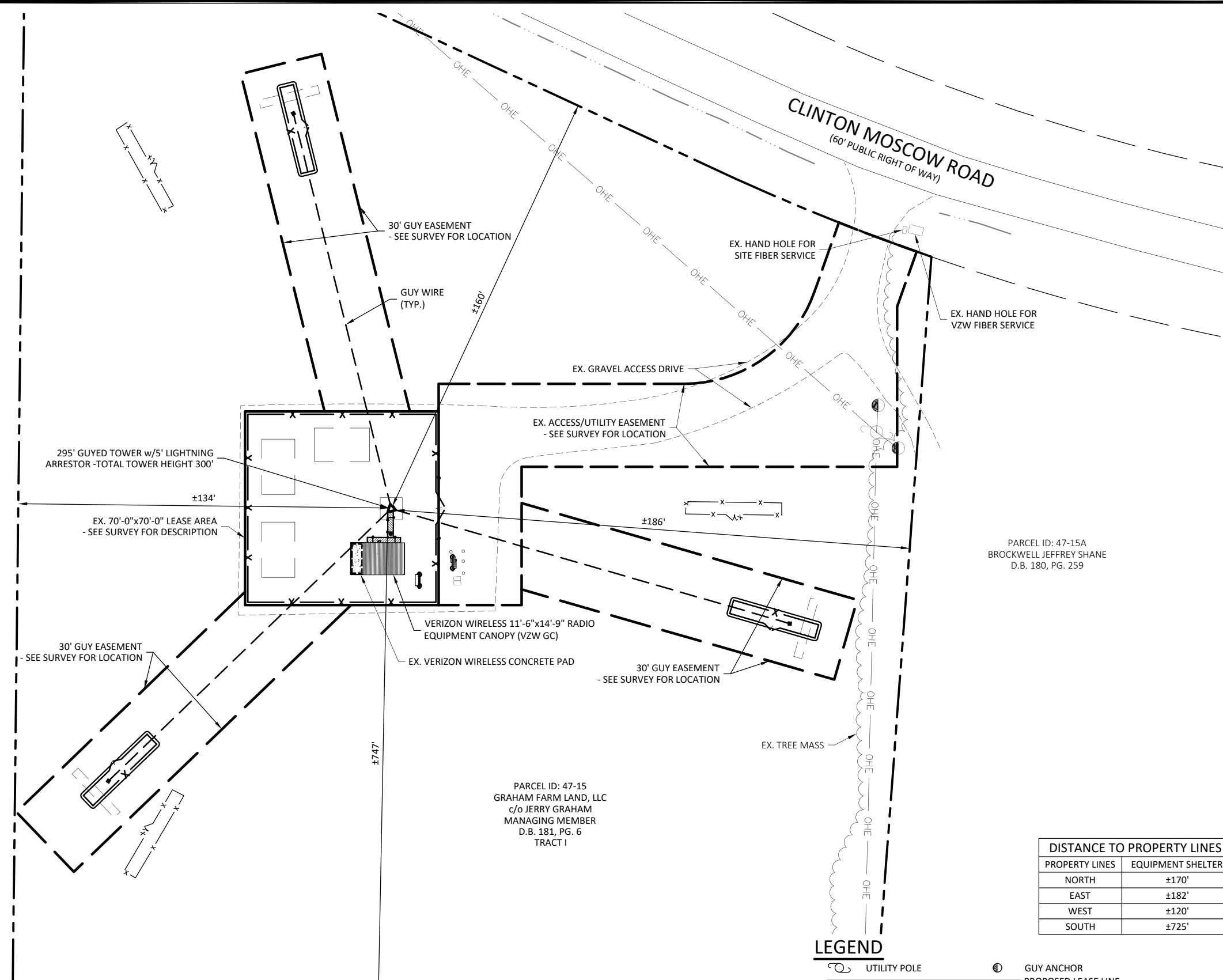
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SHEET NUMBER:

C-1A



DISTANCE TO PROPERTY LINES	
PROPERTY LINES	EQUIPMENT SHELTER
NORTH	±170'
EAST	±182'
WEST	±120'
SOUTH	±725'

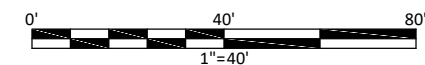
LEGEND

- UTILITY POLE
- GUY ANCHOR
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING GRAVEL
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING PAVEMENT
- EXISTING DITCH LINE
- PROPERTY LINE
- ADJACENT PROPERTY LINE



OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SCALE: 1" = 40'



Know what's below. Call before you dig.
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1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

Diamond
Communications LLC

820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

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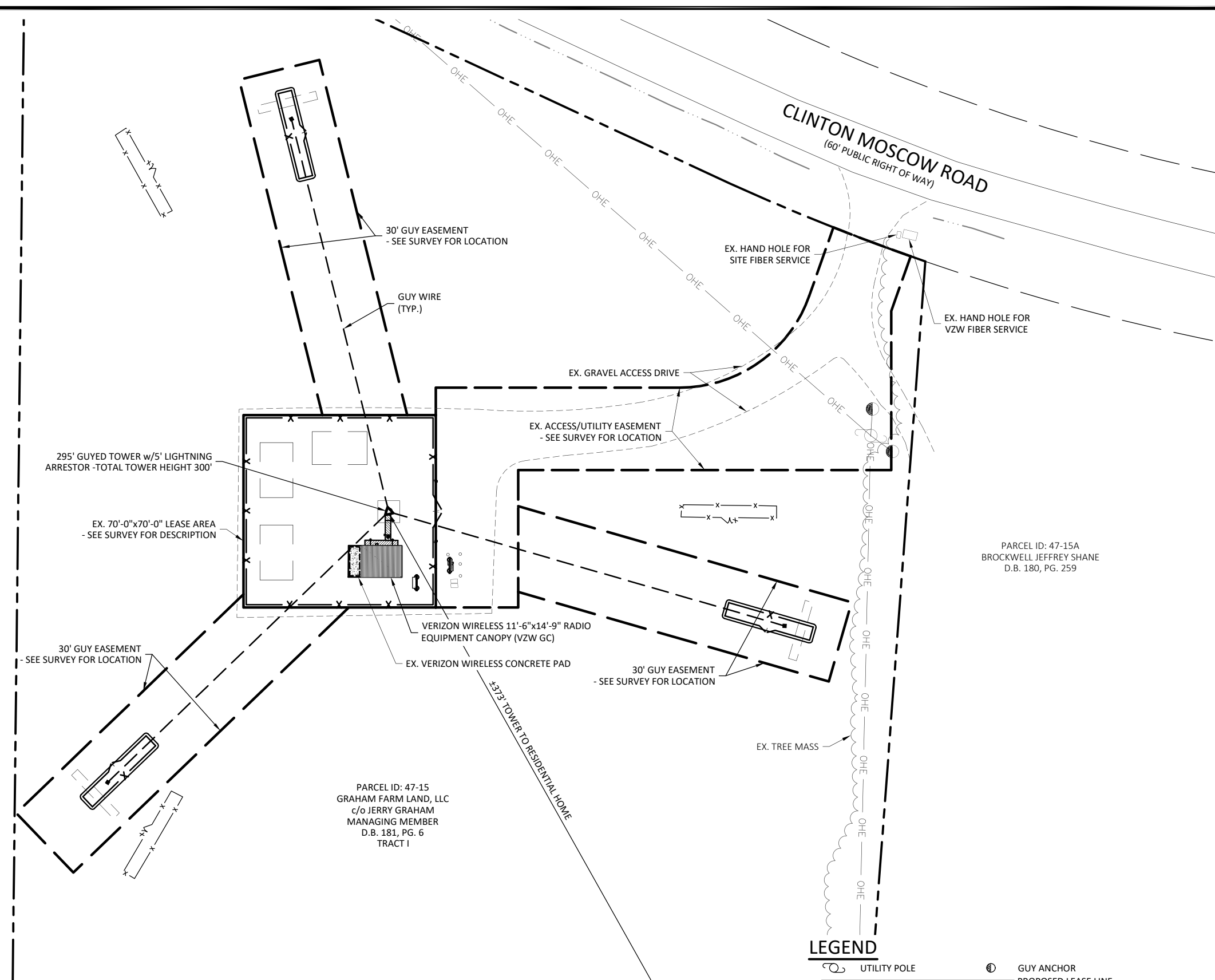
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CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

TOWER DISTANCE TO RESIDENTIAL STRUCTURES

SHEET NUMBER:

C-1B



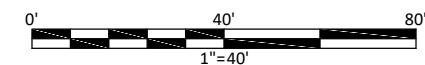
LEGEND

- UTILITY POLE
- GUY ANCHOR
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING GRAVEL
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING PAVEMENT
- EXISTING DITCH LINE
- PROPERTY LINE
- ADJACENT PROPERTY LINE



TOWER DISTANCE TO RESIDENTIAL STRUCTURES

SCALE: 1" = 40'



PARCEL ID: 47-15
GRAHAM FARM LAND, LLC
c/o JERRY GRAHAM
MANAGING MEMBER
D.B. 181, PG. 6
TRACT III

PARCEL ID: 47-15
GRAHAM FARM LAND, LLC
c/o JERRY GRAHAM
MANAGING MEMBER
D.B. 181, PG. 6
TRACT I

PARCEL ID: 47-15A
BROCKWELL JEFFREY SHANE
D.B. 180, PG. 259



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1-800-752-6007

PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO
EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING DAYS BEFORE
COMMENCING WORK.

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

Diamond
Communications LLC

820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
**FULTON, KY
(CRUTCHFIELD)**
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

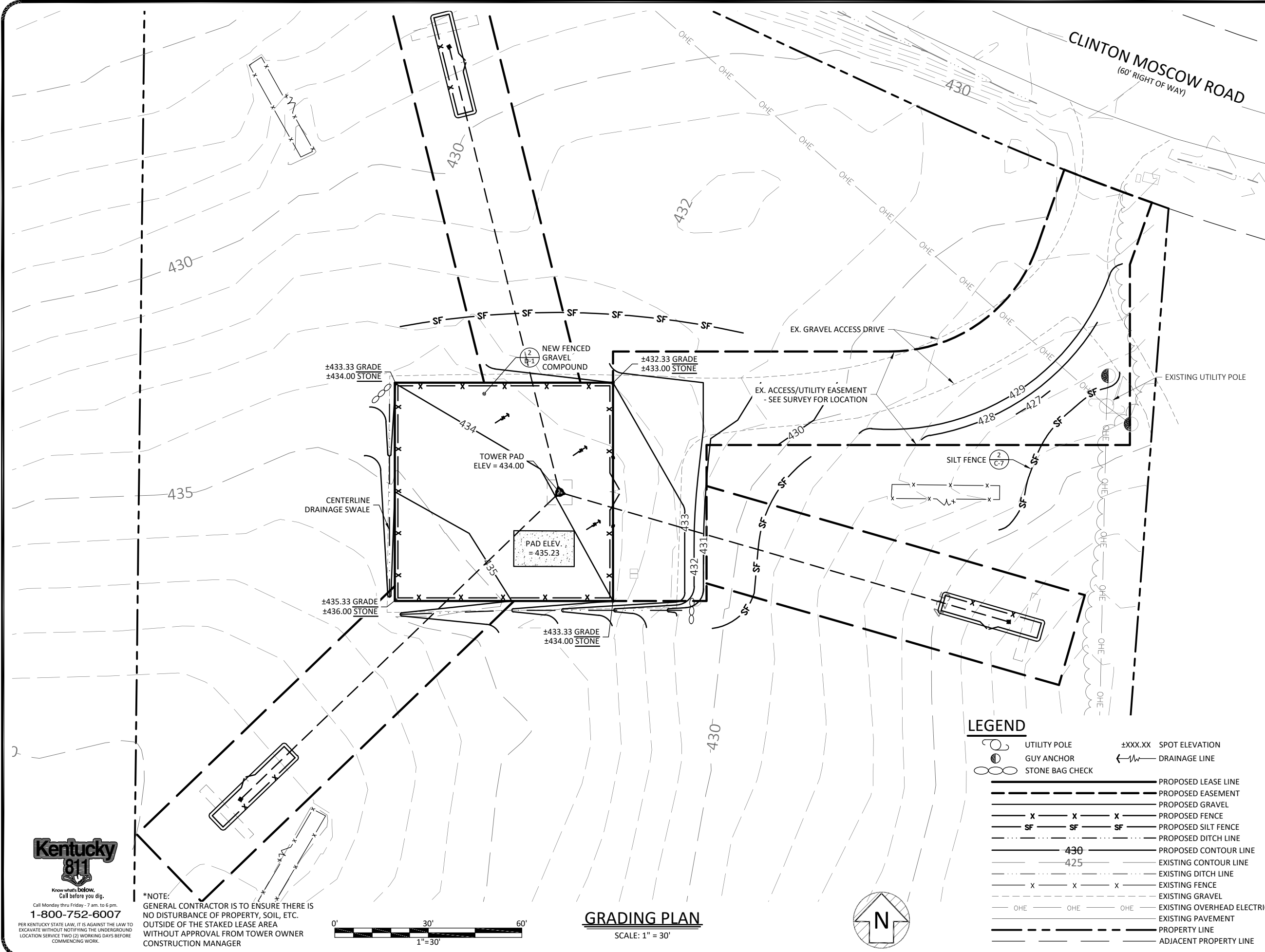
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DATE: 01.17.17

SHEET TITLE:

GRADING AND E&S CONTROL PLAN

SHEET NUMBER:

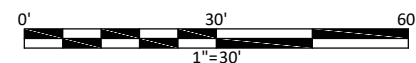
C-2



LEGEND

	UTILITY POLE	±XXX.XX	SPOT ELEVATION
	GUY ANCHOR		DRAINAGE LINE
	STONE BAG CHECK		PROPOSED LEASE LINE
	PROPOSED EASEMENT		PROPOSED GRAVEL
	PROPOSED FENCE		PROPOSED SILT FENCE
	PROPOSED DITCH LINE		PROPOSED CONTOUR LINE
	EXISTING CONTOUR LINE		EXISTING DITCH LINE
	EXISTING FENCE		EXISTING GRAVEL
	EXISTING OVERHEAD ELECTRIC		PROPERTY LINE
	EXISTING PAVEMENT		ADJACENT PROPERTY LINE

***NOTE:**
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM TOWER OWNER CONSTRUCTION MANAGER



GRADING PLAN

SCALE: 1" = 30'

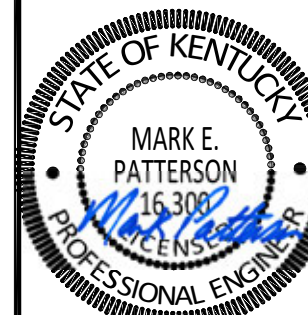


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820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

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VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

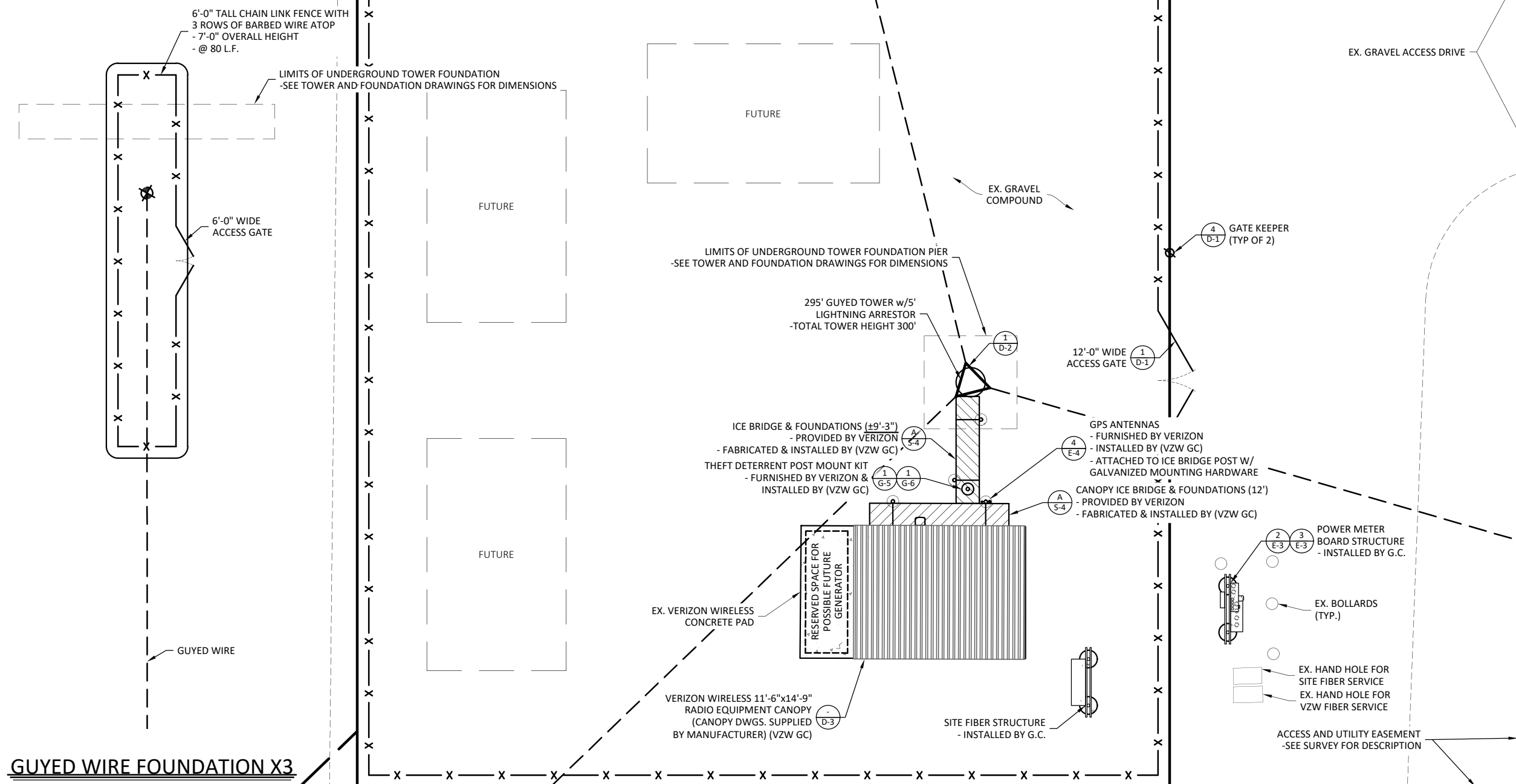
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CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:

C-3

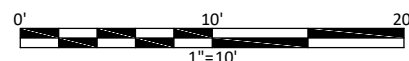


GUYED WIRE FOUNDATION X3
SCALE: 1" = 10'

DETAILED SITE PLAN
SCALE: 1" = 10'

LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- X X X PROPOSED FENCE



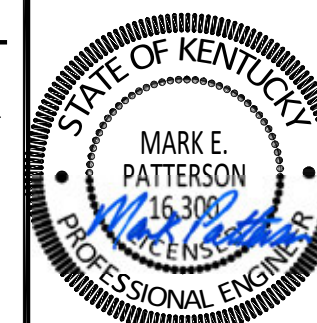
Know what's below.
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1-800-752-6007
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820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

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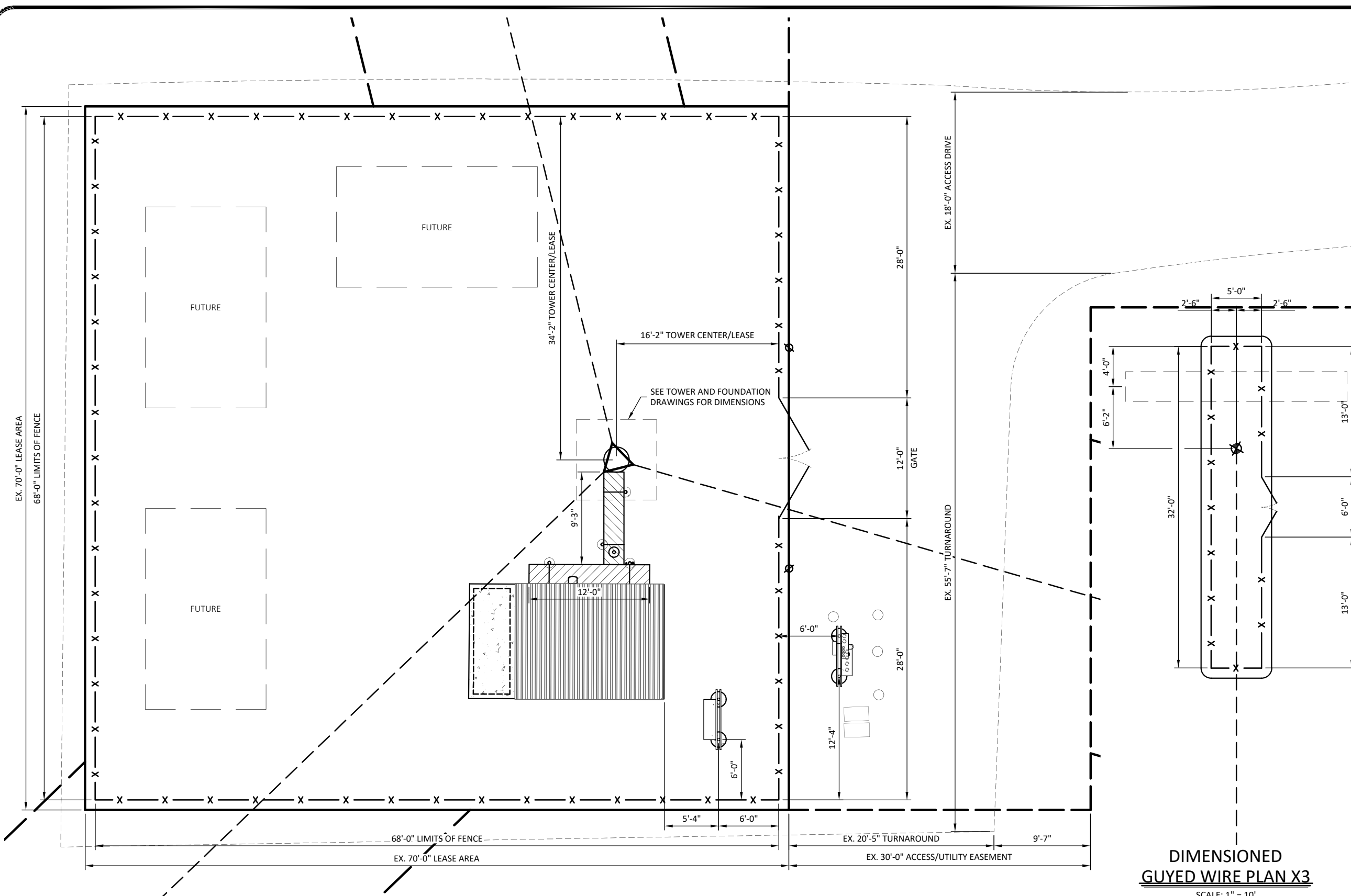
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DATE: 01.17.17

SHEET TITLE:

DIMENSIONED SITE PLAN

SHEET NUMBER:

C-4

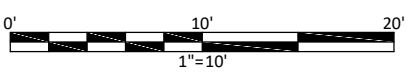


DIMENSIONED GUYED WIRE PLAN X3
SCALE: 1" = 10'



Know what's below.
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1-800-752-6007
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DIMENSIONED SITE PLAN

SCALE: 1" = 10'



LEGEND

- PROPOSED LEASE LINE
- - - - - PROPOSED EASEMENT
- PROPOSED GRAVEL
- X — X — X — PROPOSED FENCE

02/22/2022



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CONSTRUCTION DRAWINGS

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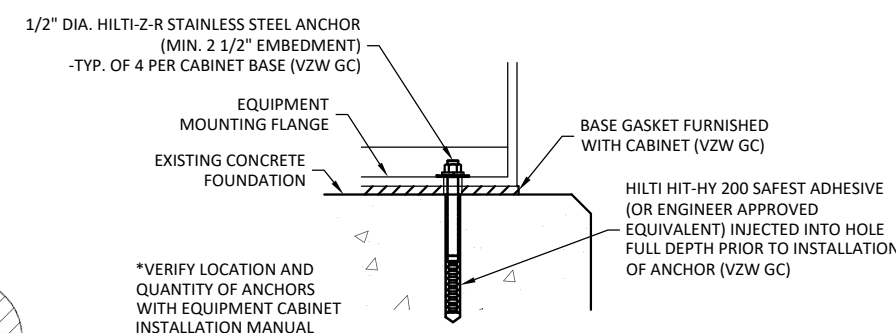
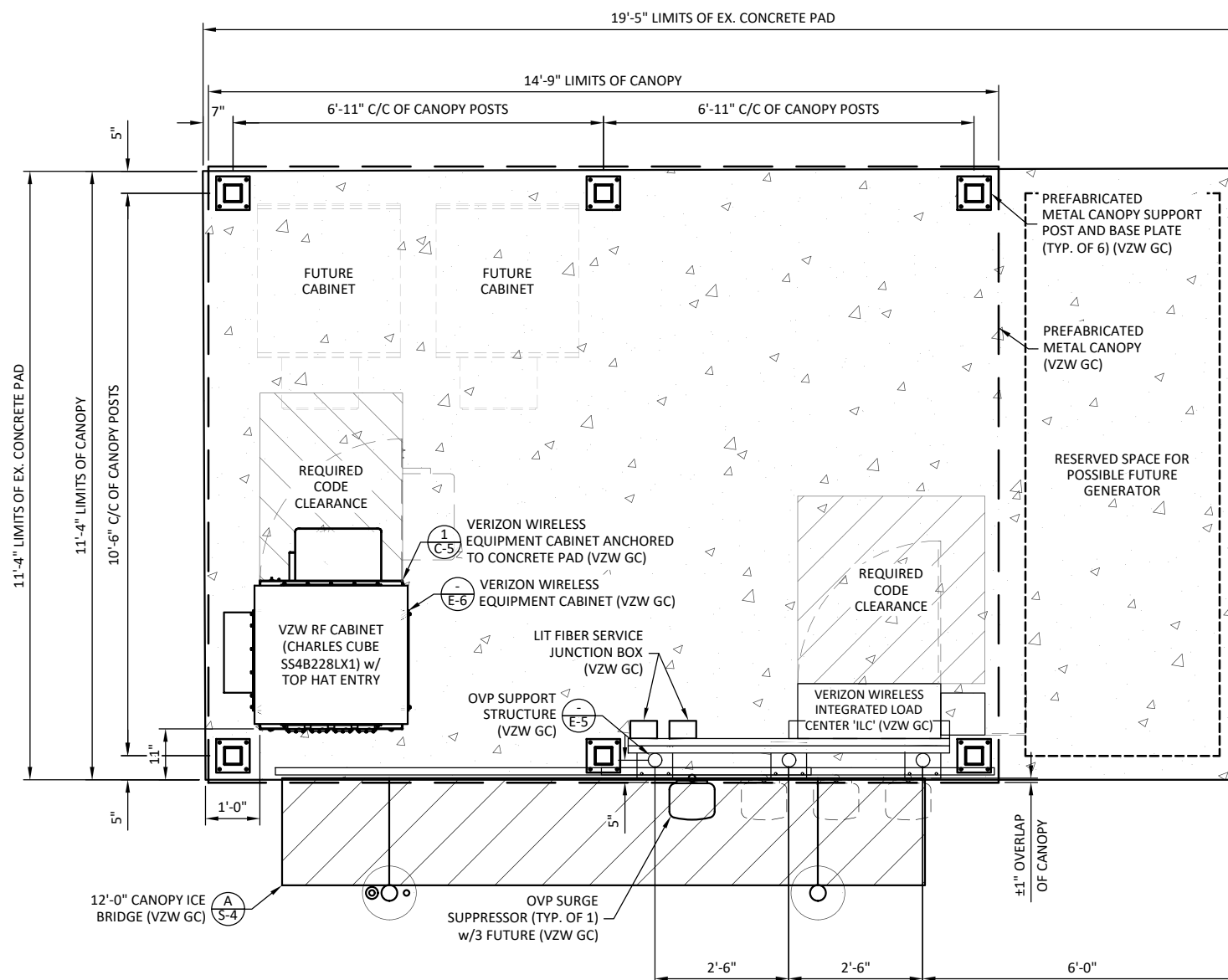
VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

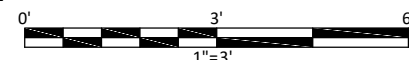
SHEET TITLE:
DETAILED EQUIPMENT PAD PLAN

SHEET NUMBER:
C-5



DETAILED EQUIPMENT PAD PLAN

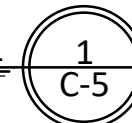
SCALE: 1" = 3'



*NOTE:
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EQUIPMENT CABINET MOUNTING DETAIL

SCALE: N.T.S.



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GENERAL SITE CONSTRUCTION NOTES

1. **SCHEDULE:**
THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE. VERIFY SCHEDULE DURING BID WALK.

2. **TOWER OWNER REPRESENTATIVE:**
DIAMOND COMMUNICATIONS LLC
820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078
CONTACT: SCOTT VON REIN
PHONE: (973) 544-6834
MOBILE: (973) 698-8725
E-MAIL: SVONREIN@DIAMONDCOMM.COM

PROPERTY OWNER REPRESENTATIVE:
GRAHAM FARM LAND, LLC
1758 ST ROUTE 781 NORTH
FULTON, KY 42041
CONTACT: JERRY GRAHAM
PHONE: (270) 627-0374

3. **ANTENNA INSTALLATION:**
THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THIS WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED OUTSIDE THE VICINITY OF THE TOWER.

4. **ACCESS DRIVEWAY:**
THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVE PER THE ALIGNMENT AS SHOWN ON THESE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES ADDITIONAL FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY AND SHALL NOT BE USED UNTIL APPROVAL BY THE ENGINEER. THE GENERAL CONTRACTOR SHALL ALSO OBTAIN DRIVE PERMIT FOR NEW ACCESS DRIVE.

5. **PREFABRICATED EQUIPMENT CANOPY:**
THE VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING, TRANSPORTING AND ASSEMBLY OF THE PREFABRICATED EQUIPMENT CANOPY FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION ON THE CONCRETE FOUNDATION. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF THE CANOPY TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES. THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CANOPY SHALL INCLUDE THIS WORK IN THE CANOPY INSTALLATION PORTION OF THE BID.

THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CANOPY AND GENERATOR AND SHALL INCLUDE THIS WORK IN THE PAD INSTALLATION PORTION OF THE BID.

6. **UTILITIES:**
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557.

THE CONTRACTOR SHALL RUN AN ELECTRICAL TRENCH WITH 2 1/2" CONDUIT AND DETECTABLE PULL TAPE FROM THE NEW RADIO EQUIPMENT PAD AND END AT THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL THEN RUN (2) TWO 3" CONDUIT WITH PULL TAPE FROM THE METER BOARD TO THE NEW POLE MOUNTED TRANSFORMER AND STUB UP 6" ABOVE GRADE. CONTACT REX COFFEY @ (270) 627-3312, WITH GIBSON ELECTRIC MEMBERSHIP COOPERATIVE (GEMC) BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER. CONDUITS MUST HAVE A MINIMUM DEPTH OF 36". CONTRACTOR SHALL CONTACT ELECTRIC PROVIDER TO HAVE TRENCH AND CONDUIT INSPECTED BEFORE THE TRENCH IS COVERED, THE ELECTRIC PROVIDER SHALL SUPPLY SERVICE TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT GEMC TO SETUP AN INSPECTION OF THE TRENCHES BEFORE THEY ARE BACKFILLED. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER INSPECTION AND SETTLEMENT. CONTACT ELECTRIC PROVIDER THREE TO FOUR WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE AND COORDINATION OF ACCESS TO SITE. THE CONTRACTOR SHALL CONTACT GEMC FOR A COPY OF THEIR SPECIFICATIONS BEFORE CONSTRUCTION

THE TOWER OWNER SHALL ENSURE PERMANENT ELECTRIC POWER IS AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED TO VERIZON WIRELESS AS TENANT READY. THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL RUN ELECTRICAL CONDUCTORS FROM NEW METER CENTER TO NEW VZW INTEGRATED LOAD CENTER WITHIN TOWER OWNER INSTALLED 2 1/2" CONDUIT CONTACT GIBSON ELECTRIC MEMBERSHIP COOPERATIVE (GEMC) TO HAVE NEW METER INSTALLED. THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR THE ORDERING AND COORDINATING THE DELIVERY OF A FIBER OPTIC SERVICE LINE TO THE RADIO EQUIPMENT ENCLOSURE. COORDINATE WITH THE FIBER PROVIDER AND THE VERIZON WIRELESS FACILITY ENGINEER.

- A. THE CONTRACTOR SHALL RUN IN THE FIBER OPTIC TRENCH (1) "VERIZON ONLY" 4" PVC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM THE NEW RADIO EQUIPMENT PAD TO THE NEW HAND HOLE OUTSIDE COMPOUND WITHIN EASEMENT, VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) WILL COORDINATE WITH FIBER PROVIDER (TBD BY VZW) TO VERIFY EXACT LOCATION OF CONDUIT AND HAND HOLE BEFORE CONSTRUCTION STARTS. (VZW GC) WILL THEN COORDINATE WITH THE CONTRACTOR FOR THIS INSTALLATION. THE FIBER PROVIDER WILL PROVIDE SERVICE TO THE TELCO RACK IN VERIZON WIRELESS EQUIPMENT CABINET.
- B. THE CONTRACTOR SHALL RUN IN THE FIBER OPTIC TRENCH (1) "VERIZON WIRELESS ONLY" 4" PVC CONDUIT WITH PULL TAPE FROM THE NEW HAND HOLE LOCATED OUTSIDE COMPOUND TO THE FUTURE FIBER PEDESTAL LOCATION AND STUB-UP. THE CONTRACTOR SHALL RUN 4" PVC CONDUIT WITH PULL TAPE FROM "VERIZON WIRELESS ONLY" HAND HOLE OUTSIDE COMPOUND TO NEW HAND HOLE AT RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE VERIZON WIRELESS CONSTRUCTION MANAGER AND THE FIBER SERVICE PROVIDER ON THE FUTURE FIBER PEDESTAL LOCATION. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER SETTLEMENT. CONTACT FIBER PROVIDER (TBD BY VERIZON WIRELESS) FOR APPOINTMENT TO VISIT THE SITE, FOUR TO SIX WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE.

ELECTRIC SERVICE PROVIDED BY:
GIBSON ELECTRIC MEMBERSHIP COOPERATIVE (GEMC)
ADDRESS: 1702 MOSCOW AVE
HICKMAN, KY 42050
CONTACT: REX COFFEY
PHONE: (270) 627-3312
EMAIL: RCOFFEY@GIBSONEMC.COM

FIBER OPTIC SERVICE PROVIDED BY:
FIBER PROVIDER TO BE DETERMINED
BY VERIZON WIRELESS

7. **SITE GRADING:**
A. UNIFORMLY GRADE AREA TO BE SMOOTH SURFACE FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTION, TOPO LINES AND ELEVATIONS INDICATED.

- COMPOUND SURFACE GRADES ARE TO BE SLOPED TO DIRECT WATER AWAY FROM EQUIPMENT PAD AND TOWER TO PREVENT STANDING AND PONDING WATER.

- COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STERILIZATION FOR ACCESS TO ALL CUSTOMERS DENSITY TESTING MAY BE REQUIRED AT VERIZON WIRELESS' DISCRETION DUE TO QUESTIONABLE COMPACTION OF FINISH SURFACE GRADE OR SUB-GRADE.

- DITCHES/SWALES AROUND THE COMPOUND AREA AND ALONG ACCESS ROAD SHALL BE CONSTRUCTED SO TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES/SLOPE AND NEW PROPOSED GRADES.

- SITE GRADING AND DRAINAGE SHOULD BE CONSTRUCTED TO PREVENT WATER FROM ENTERING THE COMPOUND SURFACE OR THE ACCESS ROAD SUB-GRADE.

B. **MOISTURE CONTROL** - UNIFORMLY MOISTEN OR AERATE SUB-GRADE AND EACH SUBSEQUENT FILL OR BACK FILL LAYER BEFORE COMPACTION TO WITHIN 90% OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACK FILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST, SNOW OR ICE.

C. **STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT)** - SHOULD BE PLACED IN AN AREA THAT CAN BE CONTROLLED TO PREVENT WATER, SNOW, OR ICE FROM EFFECTING MOISTURE CONTENT. STOCKPILES MAY HAVE TO BE COVERED TO PREVENT ADDITIONAL MOISTURE FROM ACCUMULATING SO ACCEPTABLE FILL CAN BE USED.

D. **DE-WATERING** - PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUB-GRADE, AND FROM FLOODING PROJECT OR BUILD AREA.

E. **EROSION CONTROL** - MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

- ALL INLETS, DRAINS, PIPES, SWELLS, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT.
- F. **GEOTEXTILE FABRIC** - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE, (SEE SITE AREA SURFACING DETAIL ON D-1), THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENCATE (MIRAFI 500X) WOVEN ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

8. **TRASH REMOVAL & SANITATION:**
THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL REMOVE ALL TRASH AS CREATED BY HIMSELF AND HIS SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. NO BURNING OR BURYING OF TRASH IS PERMITTED.

THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.

9. **TOWER:**

A. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT PAD FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO THE TOWER FOUNDATION. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.

B. TOWER & FOUNDATION DESIGN ARE BY OTHERS FOR TOWER OWNER. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN WRITING FROM TOWER OWNER THAT THE TOWER IS STRUCTURALLY SUFFICIENT TO SUPPORT ALL LOADINGS AS OUTLINED IN THESE DOCUMENTS. TOWER AND FOUNDATION DESIGN SHALL BE PERFORMED BY A LICENSED ENGINEER.

C. THE GENERAL CONTRACTOR SHALL VERIFY THE TOP OF FOUNDATION MATCHES THE FAA APPROVAL LETTER.

10. **EXCAVATION OF UTILITIES:**

A. FIELD VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING IN THE VICINITY OF THE SITE. ALL EXCAVATIONS SHALL BE MADE BY HAND OVER OR UNDER OR IMMEDIATELY ADJACENT TO ANY EXISTING UTILITIES & GROUNDING.

B. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. CONTACT UNDERGROUND UTILITY PROTECTION SERVICE BEFORE YOU DIG AT 1-800-752-6007 OR 811.

C. EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE AND DETERMINE IF CONFLICTS EXIST WITH THE NEW IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER: POWER OF DESIGN GROUP, LLC IN ORDER TO RESOLVE ANY CONFLICTS.

11. **CONTRACTOR'S LICENSE:**

THE GENERAL CONTRACTOR, VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) AND ALL OF THEIR SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED TO PERFORM WORK IN THE LOCATION OF THIS SITE. PROOF OF LICENSES SHALL BE SUPPLIED TO VERIZON WIRELESS PRIOR TO THE COMMENCEMENT OF ANY WORK.

12. **SEEDING:**

ALL DISTURBED AREAS SHALL BE REPAIRED AND SEEDED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. SEED DISTURBED AREAS W/4 POUNDS/1000 SQ. FT. - 60% KENTUCKY BLUEGRASS, 18% CREEPING RED FESCUE, 22% ANNUAL RYEGRASS.

13. **TRAFFIC CONTROL:**

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR GOVERNING LOCAL AGENCIES.

14. **CONSTRUCTION STAKING:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING NEEDED TO COMPLETE ALL THE CONSTRUCTION SHOWN HEREON. CONTACT DESIGN ENGINEER TO SCHEDULE CONSTRUCTION STAKING.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, FIELD TILES, CULVERTS, ETC.

16. IN THE EVENT ANY DISCREPANCIES OR ERRORS ARE FOUND ON THESE PLANS OR ANY CONFLICT OR PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) FOR WORK HAVING TO BE REDONE FOR GRADE OR GEOMETRIC DISCREPANCIES IF NOTICE TO THE ENGINEER HAS NOT BEEN PROVIDED. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THE INTENT OF THESE PLANS.

17. ALL SITE WORK AND CONSTRUCTION SHALL CONFORM TO ANY AND ALL APPLICABLE CODES AND VERIZON WIRELESS STANDARDS AND SPECIFICATIONS.

18. ALL ELEVATIONS AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY SUPPLIED TO POWER OF DESIGN GROUP, LLC BY POWER OF DESIGN GROUP, LLC. POWER OF DESIGN GROUP, LLC HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS, AND SUBMIT SAME TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION. AS-BUILT PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE A DRAWING WITH DIMENSIONS SHOWING THE LOCATION OF THE UNDERGROUND UTILITIES, GROUNDING GRID, PLATFORM, TOWER FOUNDATION, TOWER PLATFORM ORIENTATION, AND FENCE WITHIN THE LEASE AREA OR PROPERTY AND BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR.

20. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION.

21. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL TESTING AGENCIES THAT REQUIRE SITE INSPECTION OR TESTING OF THE WORK AS DIRECTED IN THESE PLANS, GOVERNING AGENCIES AND ALL APPLICABLE CODES.

22. PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ALL CONSTRUCTION DOCUMENTS TO INCLUDE, BUT NOT LIMITED TO, GEOTECHNICAL REPORT, STRUCTURAL ANALYSIS, TOWER, MECHANICAL AND ELECTRICAL DRAWINGS, FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

23. **WORK SITE SAFETY:**

A. CONSTRUCTION WORK PRESENTS UNIQUE THREATS TO HEALTH AND SAFETY. THE CONTRACTOR AND VERIZON WIRELESS CONTRACTOR (VZW GC) ARE RESPONSIBLE TO EDUCATE THEIR WORK FORCE OF THESE DANGERS AND LIMIT THEIR EXPOSURE TO HAZARDS. THIS EDUCATION SHALL INCLUDE BUT NOT BE LIMITED TO APPLICABLE TRAINING COURSES AND CERTIFICATIONS, PROPER PERSONAL PROTECTIVE EQUIPMENT USAGE, DAILY TAILGATE MEETINGS AND ANY OTHER PREVENTATIVE MEASURES WHICH MAY BE REASONABLY EXPECTED. THE CONTRACTOR, VERIZON WIRELESS CONTRACTOR (VZW GC) AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. ALL CONTRACTORS SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.

B. TOWER WORK PRESENTS ADDITIONAL THREATS TO HEALTH AND SAFETY. ALL TOWER WORKERS WORKING ON A TOWER MUST BE ADEQUATELY TRAINED AND MONITORED TO ENSURE THAT SAFE WORK PRACTICES ARE LEARNED AND FOLLOWED. AS REQUIRED BY OSHA, WHEN WORKING ON EXISTING COMMUNICATION TOWERS, EMPLOYEES MUST BE PROVIDED WITH APPROPRIATE FALL PROTECTION, TRAINED TO USE THIS FALL PROTECTION PROPERLY, AND THE USE OF FALL PROTECTION MUST BE CONSISTENTLY SUPERVISED AND ENFORCED BY THE CONTRACTOR.

C. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

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1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
GENERAL SITE CONSTRUCTION NOTES

SHEET NUMBER:
C-6



Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007

PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

EROSION & SEDIMENT CONTROL NOTES

- ALL WORK SPECIFIED AS A/AN DOT ITEM SHALL BE GOVERNED BY THE STATE OF KENTUCKY OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
- THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
- PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE. TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

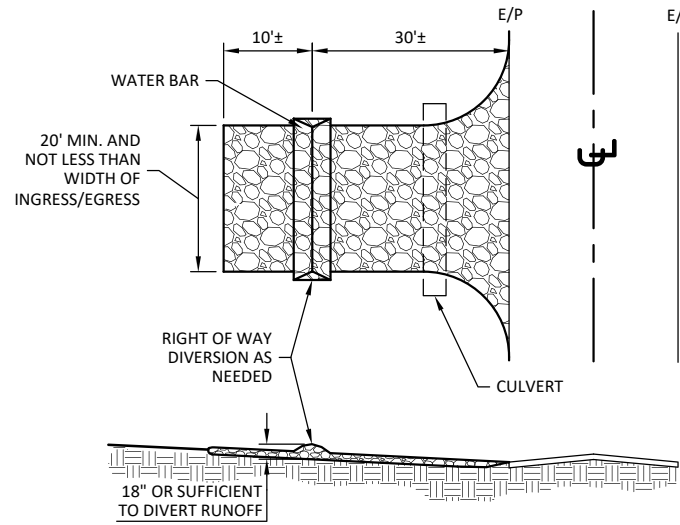
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDINGS			A									
DORMANT SEEDINGS	B									B		
TEMPORARY SEEDINGS			C		D							
SODDING			E**									
MULCHING	F											

- A. KENTUCKY BLUEGRASS 90 LBS./AC/MIXED BLUEGRASS) 150 LBS./ACRE
PERENNIAL RYEGRASS 30 LBS./ACRE
- B. KENTUCKY BLUEGRASS 135 LBS./AC/MIXED PERENNIAL RYEGRASS 45 LBS./AC. 2 TON STRAW MULCH PER ACRE
- C. SPRING OATS 100 LBS./ACRE
- D. WHEAT OR CEREAL RYE 150 LBS./ACRE
- E. SOD (NURSERY CROWNA KENTUCKY)
- F. STRAW MULCH 2 TONS PER ACRE
- * IRRIGATION NEEDED DURING JUNE, JULY & SEPTEMBER
- ** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SODDING

- PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 10 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING. ALL PERMANENT VEGETATION SHALL CONSIST OF PLANTING AND SOD
- AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
- SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
- UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER PREVENTION PLANS, DETAILS AND NOTES.
- ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
- ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
- THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
 - SILT BARRIERS
 - SILT FENCE
 - CONSTRUCTION ENTRANCE
 - EROSION CONTROL SEED BLANKETS - SPEC FOR TEMPORARY EROSION CONTROL BLANKETS ON SLOPES/DITCHES

CONSTRUCTION SEQUENCE

- STAKE AND/OR FLAG LIMITS OF CLEARING
- DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
- CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
- INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON PLANS.
- INSTALL CONSTRUCTION ENTRANCE, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTION ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
- CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
- BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALES DURING FILLING AND GRADING ACTIVITIES.
- CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
- MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
- REMOVE SEDIMENT CONTROLS.

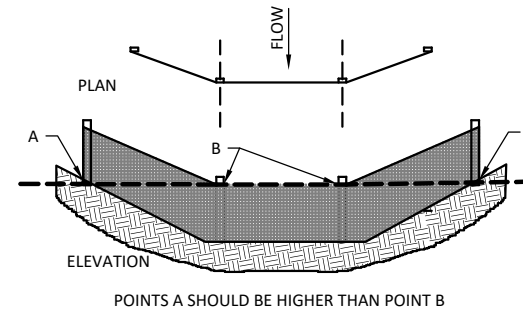
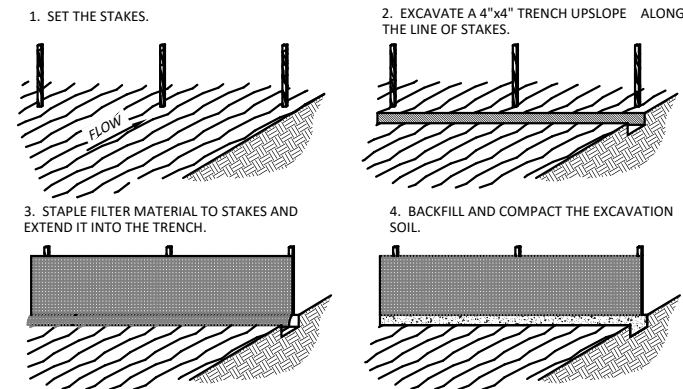
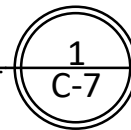


NOTES:

- STONE SIZE - NO. 2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
- PAVEMENT THICKNESS - STONE LAYER SHALL BE AT LEAST 6" THICK.
- DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS/EGRESS OCCURS.
- BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF OS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY, REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTIONS ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

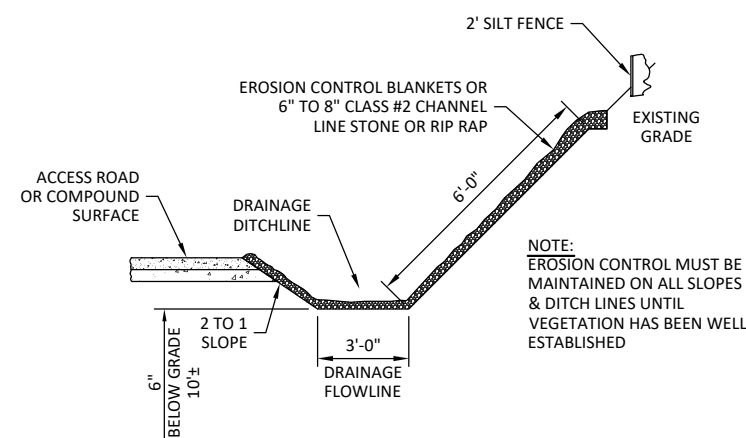
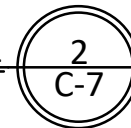
TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.



SILT FENCE DETAIL

SCALE: N.T.S.

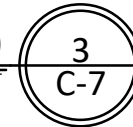


NOTES:

- WHEN FACED WITH SLOPES LESS THAN 2 TO 1 SLOPES, ALL SLOPES SHOULD BE DOZER TRACKED PRIOR TO SEEDING. ALL SLOPES SHOULD HAVE EROSION CONTROL BLANKETS OR RIP RAP EMBEDDED ON SLOPES SURFACES TO REDUCE EROSION.
- ALL FLOWLINES MUST BE INSTALLED BELOW SUB-GRADE OF COMPOUND. (AT MINIMUM OF 6" BELOW)

DRAINAGE DITCHLINE DETAIL (SWALE)

SCALE: N.T.S.



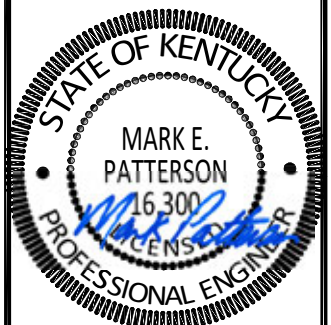
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007

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820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

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1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

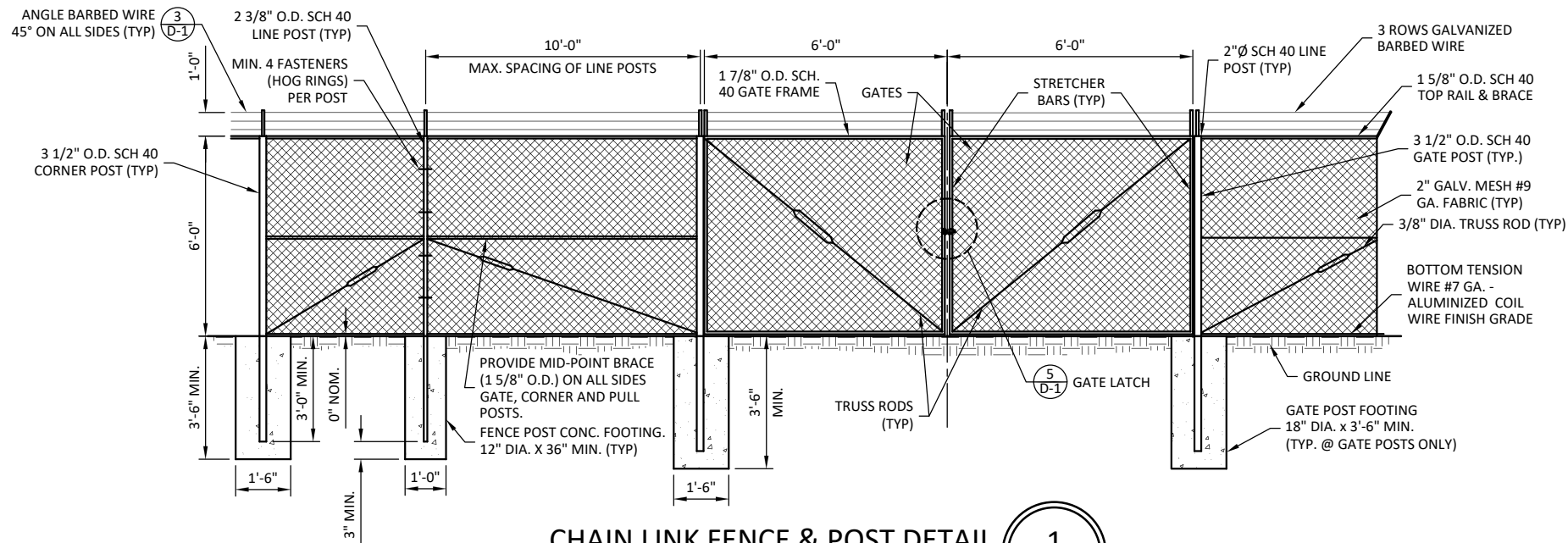
VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES

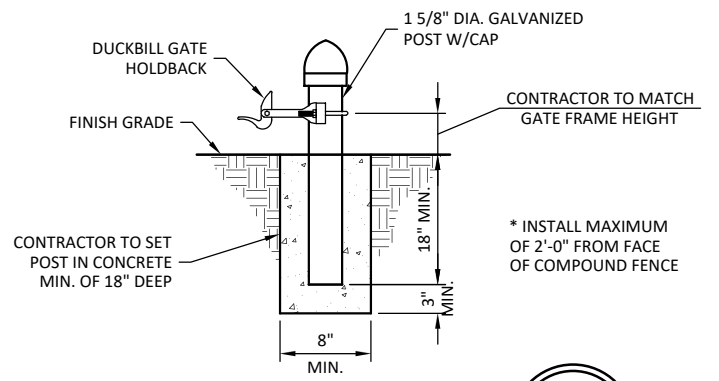
SHEET NUMBER:

C-7

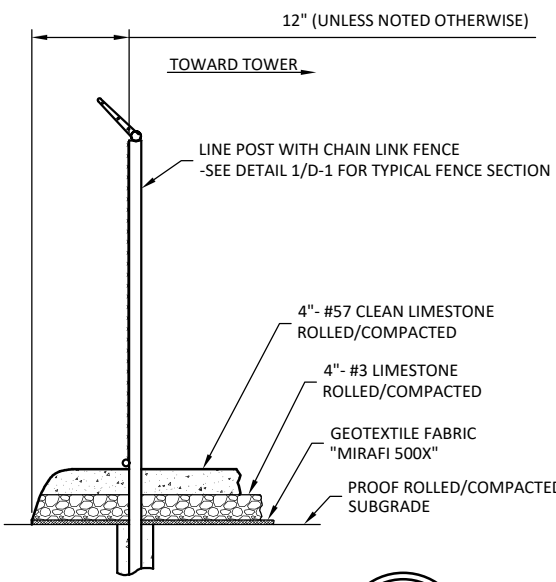


CHAIN LINK FENCE & POST DETAIL 1 D-1
SCALE: N.T.S.

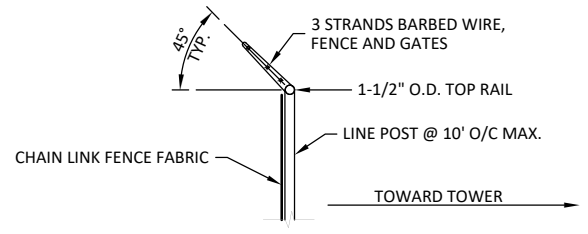
- ### CHAIN LINK FENCING NOTES
1. ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
 2. BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
 3. SITE FENCE SHALL BE 6'-0" FABRIC W/ 3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0".
 4. BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 585, TYPE I, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAGE W/4 POINT BARBS AT 5" O/C.
 5. BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE). WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 8", PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN.)
 6. PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
 7. ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
 8. CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
 9. ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14a AND CHAIN LINK FENCE MANUFACTURES INSTITUTE CLFMI-PM 2445.
 10. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



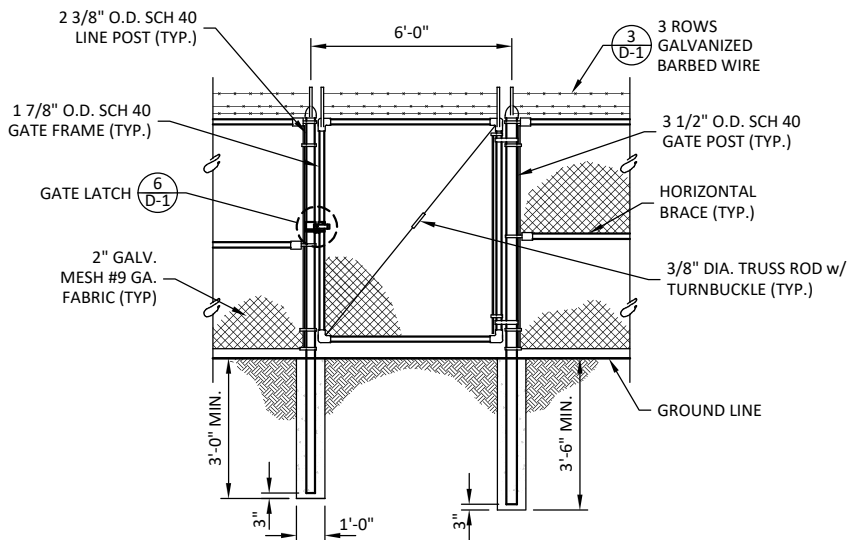
GATE KEEPER DETAIL 4 D-1
SCALE: N.T.S.



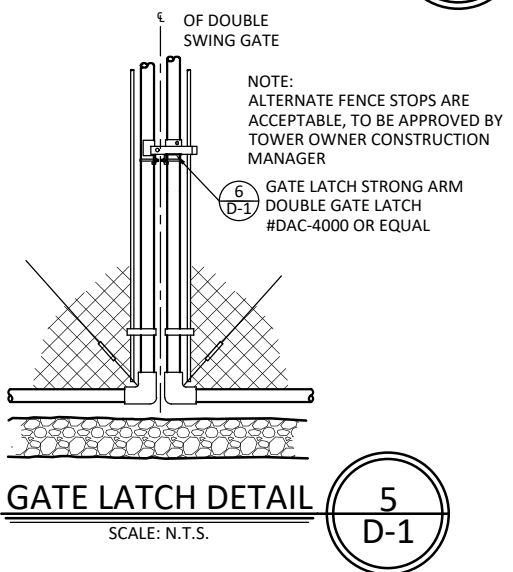
SITE AREA SURFACING 2 D-1
SCALE: N.T.S.



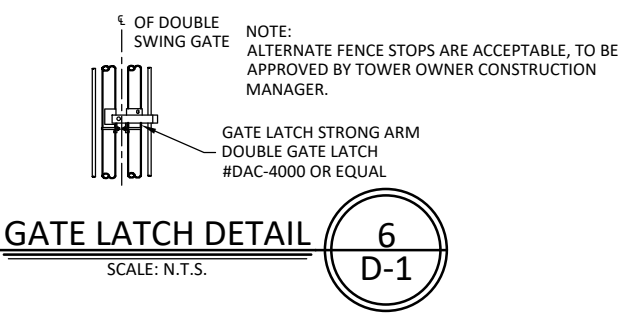
TYPICAL BARBED WIRE DETAIL 3 D-1
SCALE: N.T.S.



MAN GATE DETAIL 7 D-1
SCALE: N.T.S.



GATE LATCH DETAIL 5 D-1
SCALE: N.T.S.

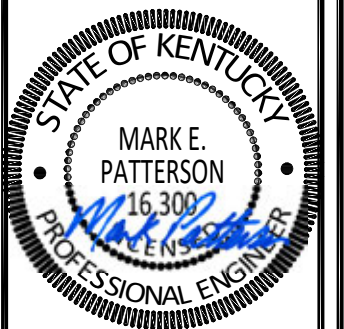


GATE LATCH DETAIL 6 D-1
SCALE: N.T.S.



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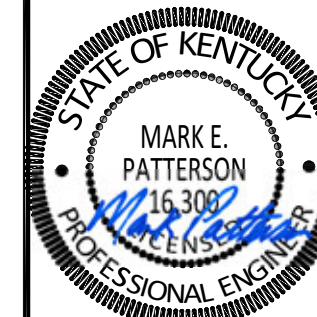
VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
FENCE DETAILS AND NOTES

SHEET NUMBER:
D-1

02/22/2022



EN PERMIT: 3594

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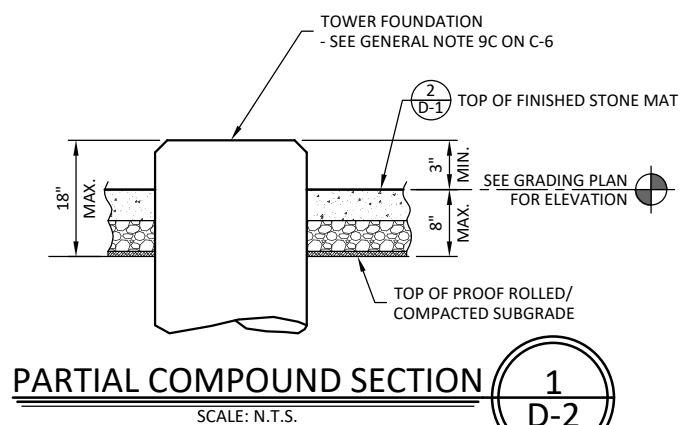
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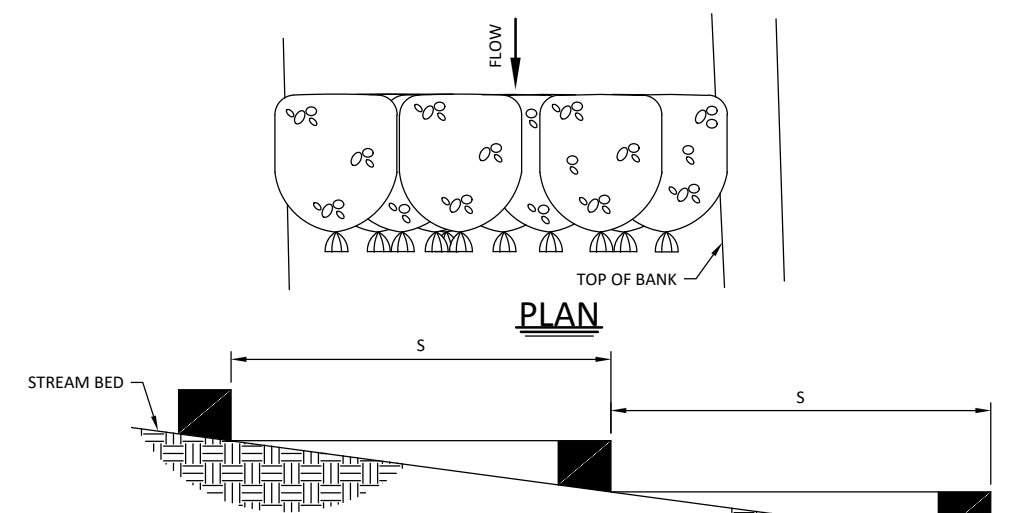
SITE DETAILS

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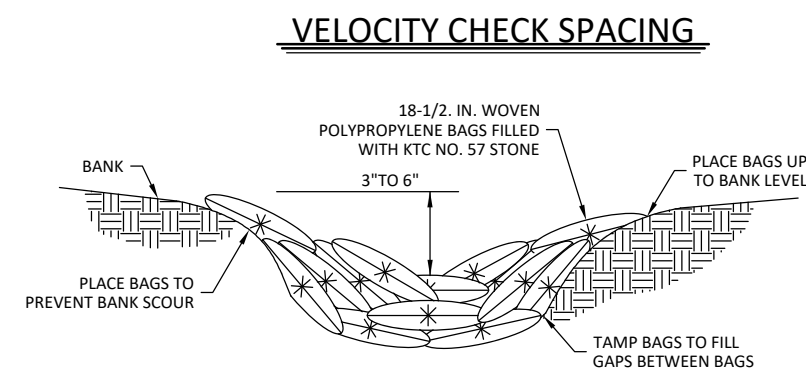
D-2



PARTIAL COMPOUND SECTION 1 D-2
SCALE: N.T.S.



NOTE: SPACE SERIES OF VELOCITY CHECKS ALONG STREAM REACH. USE SPACING "S" SUCH THAT THE CRESTS OF DOWN STREAM CHECKS ARE THE SAME ELEVATION AS THE TOE UPSTREAM CHECKS.



*NOTE:
STRAW BALES MAY BE USED IN LIEU OF STONE BAGS
AS APPROVED BY CITY ENGINEER.

CROSS SECTION 2 D-2
STONE BAG SILT CHECK DETAIL
SCALE: N.T.S.



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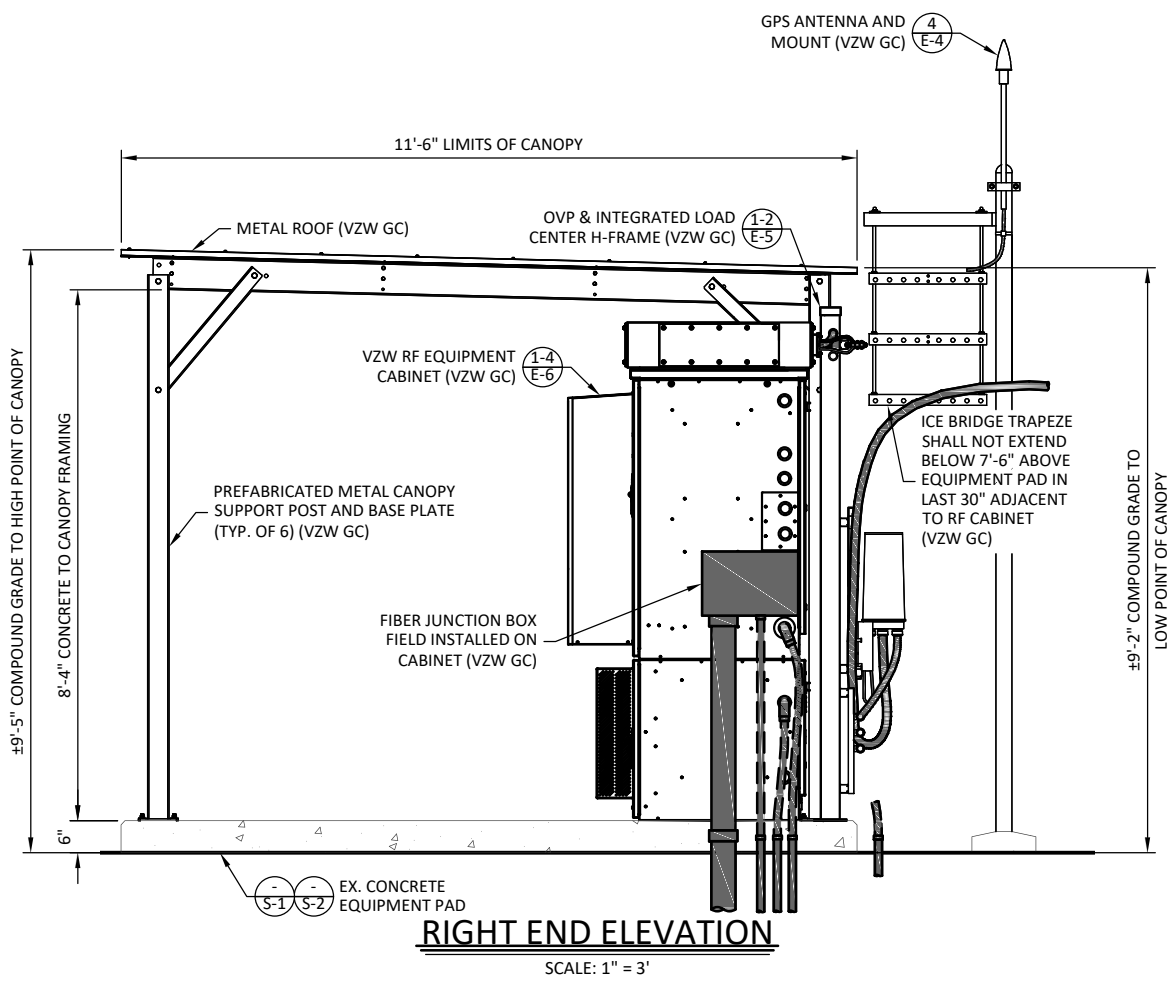
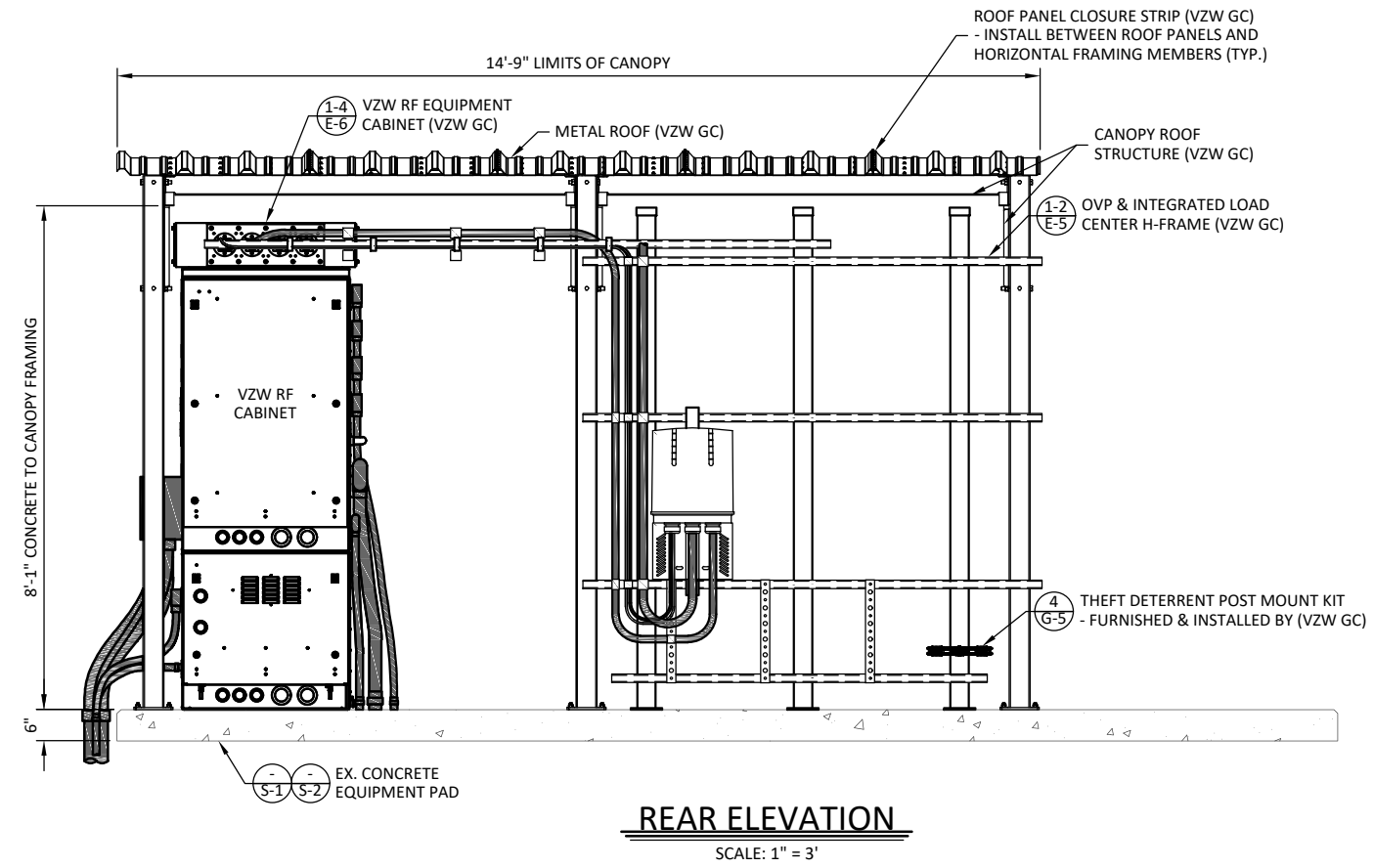
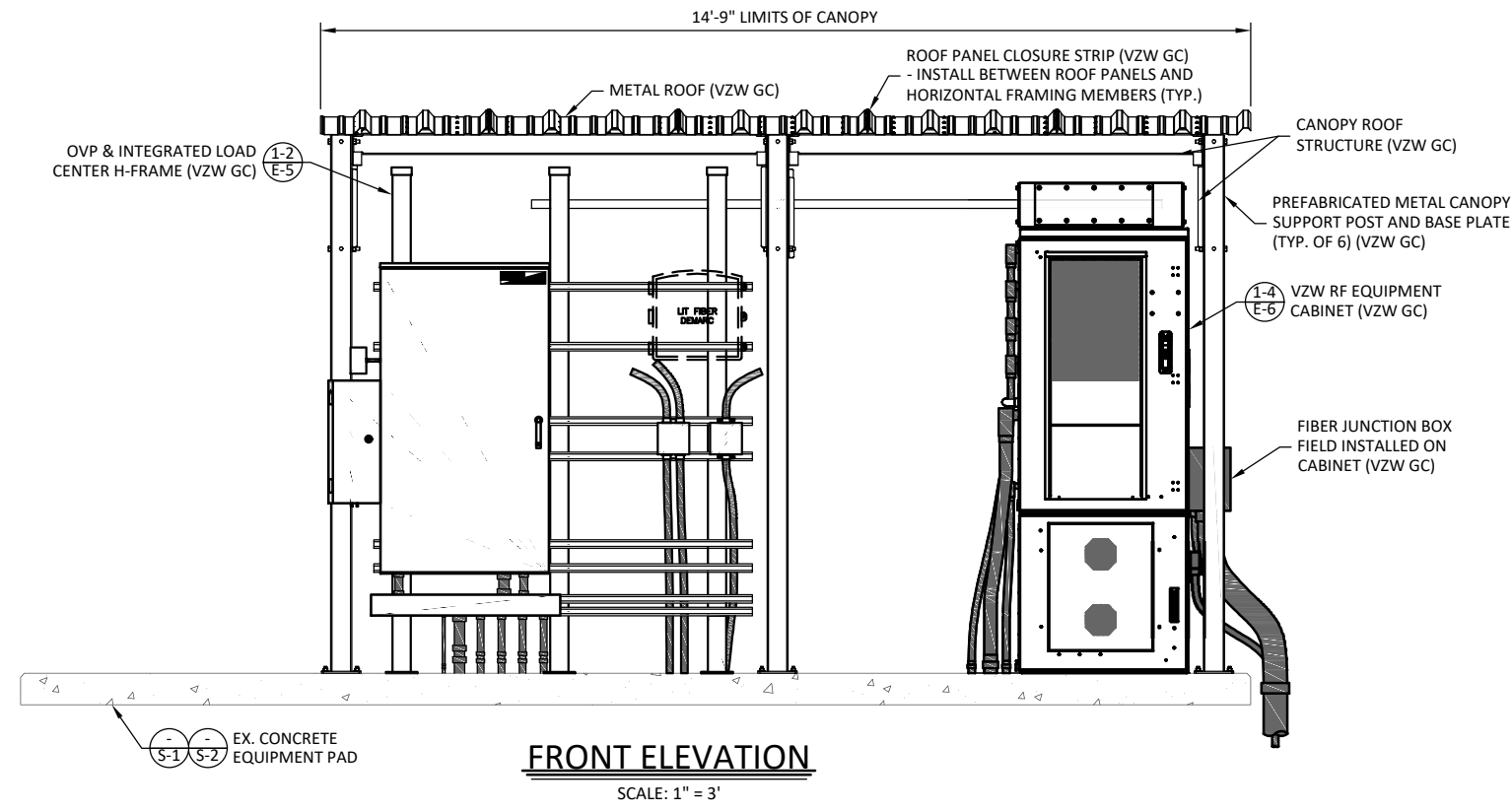
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DRAWN BY: POD
CHECKED BY: MEP
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SHEET TITLE:
EQUIPMENT PAD & CANOPY ELEVATIONS
REFERENCE ONLY

SHEET NUMBER:
D-3

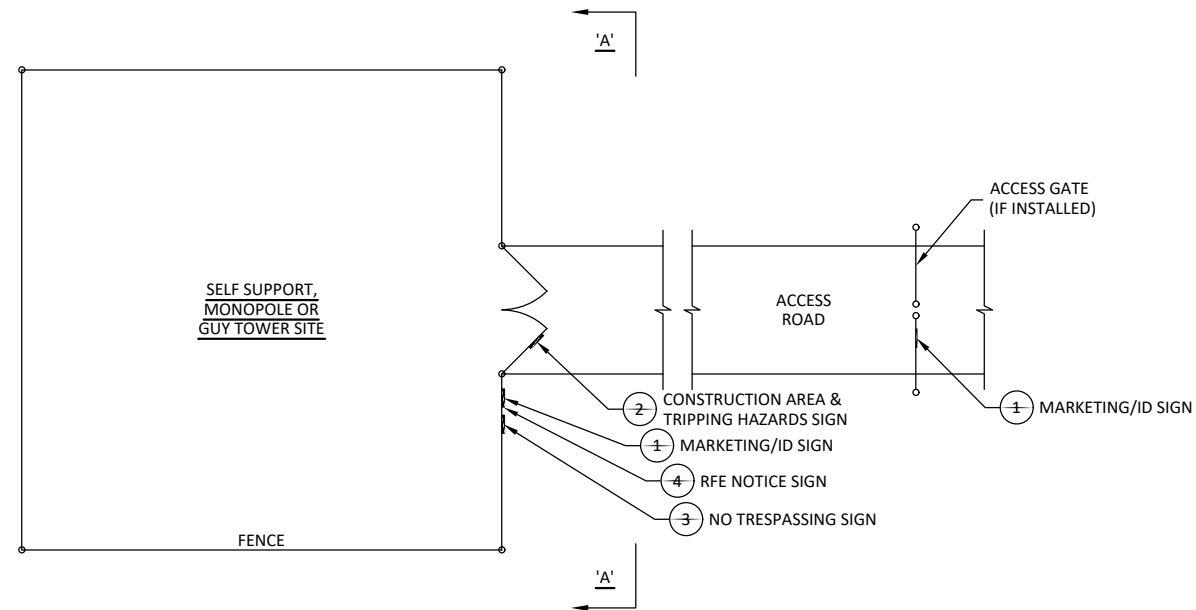
NOTE:
CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1.7lb DENSITY POLYETHYLENE FOAM PANEL CLOSURE STRIPS TO MATCH PROFILE. AS MANUFACTURED BY: SEALTITE BUILDING FASTENERS "ST CLOSURE" STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)



NOTES:

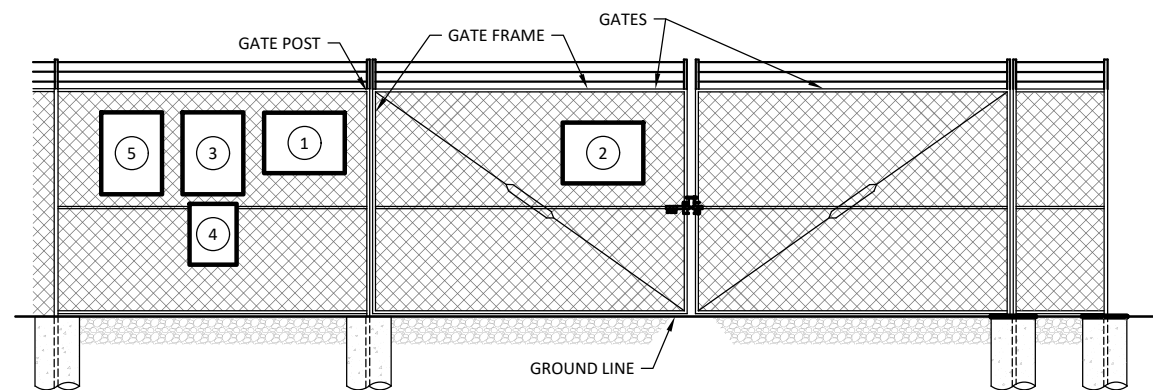
CAUTION - RFE SIGN (BLACK, YELLOW, WHITE) TO BE MOUNTED NEAR TOWER LEG W/CLIMBING CABLE. DO NOT RESTRICT CLIMBING ACCESS.

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONELL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATION POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

SCALE: N. T. S.



MARKETING/ID SIGN

24" WIDE x 18" HIGH

1

RED BACKGROUND w/BLACK LETTERING

WHITE BACKGROUND w/BLACK LETTERING

WHITE BACKGROUND w/BLACK LETTERING

WARNING

- AUTHORIZED PERSONNEL ONLY
- HARD HATS REQUIRED
- WATCH FOR FALLING MATERIAL
- WATCH FOR TRIPPING HAZARDS
- WATCH FOR UNEVEN SURFACES
- IN THE EVENT OF A T-STORM, VACATE THE COMPOUND.

CONSTRUCTION AREA & TRIPPING HAZARDS SIGN

24" WIDE x 18" HIGH

2



NO TRESPASSING SIGN

18" WIDE x 24" HIGH

3

RED BACKGROUND w/WHITE LETTERING

WHITE BACKGROUND w/RED LETTERING

RED BACKGROUND w/WHITE LETTERING



RFE NOTICE SIGN

12" WIDE x 18" HIGH

4

BLUE BACKGROUND w/WHITE LETTERING

WHITE BACKGROUND w/BLACK LETTERING AND BLACK SYMBOL



RFE CAUTION SIGN

12" WIDE x 18" HIGH

5

YELLOW BACKGROUND w/BLACK LETTERING

WHITE BACKGROUND w/BLACK LETTERING AND YELLOW SYMBOL



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
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3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
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1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

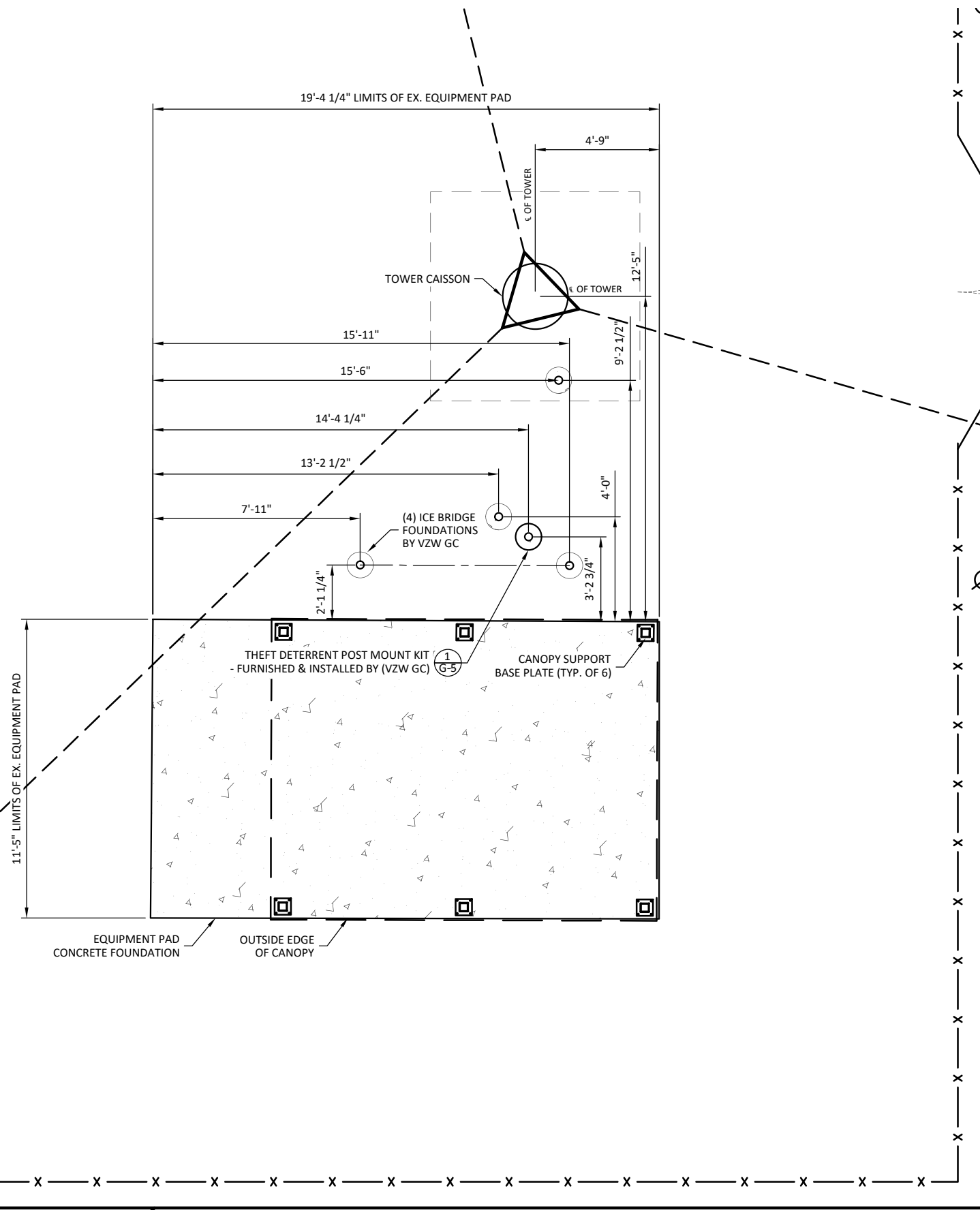
SHEET TITLE:

SITE FENCE SIGNAGE

REFERENCE ONLY

SHEET NUMBER:

D-4



STRUCTURAL NOTES

- CANOPY SYSTEM DESIGN LOADINGS:**
 ROOF SNOW LOAD 70 PSF
 DEAD LOADS ACTUAL MATERIAL WEIGHTS
 BASIC WIND SPEED 120 MPH

 DESIGN CODES INTERNATIONAL BUILDING CODE (IBC) 2012 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 ASCE7-10 OSHA REGULATIONS
- STRUCTURAL STEEL:**
 PIPE - ASTM A53 TYPE E OR S GRADE B, OR ASTM A501.
 STRUCTURE FINISH - AFTER FABRICATION ACCORDING TO ASTM A123.
- BUILDING FOUNDATION SYSTEM:**
 THE SUBSURFACE REPORT WAS PROVIDED BY POWER OF DESIGN GROUP, LLC, DATED SEPTEMBER 14, 2016.

ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS 8,000 PSF

ALL CONTRACTORS SHALL EXERCISE GREAT CARE DURING EXCAVATION. ALL CONTRACTORS SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST.

THE SUBSURFACE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF CONDUCTING SOIL TESTING AND VERIFICATION OF EXISTING CONDITIONS.

FOUNDATION SUBGRADES SHALL BE HAND TRIMMED AND COMPACTED. ALL BACKFILL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.

- CONCRETE WORK:**
 CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE ONE (1) CYLINDER SAMPLE TAKEN PER TRUCK OR FOUR (4) TOTAL FOR BUILDING FOUNDATION AND THE CONCRETE MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO VERIZON WIRELESS AND TOWER OWNER CONSTRUCTION MANAGERS. FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

SPECIFICATION -LATEST EDITION OF ACI-318 AS ADOPTED BY THE STATE OF KENTUCKY -BLDG. FOUNDATION F'c=4000 PSI @ 28 DAYS

MATERIALS 2" - 4" SLUMP -REINFORCING -ANCHOR BOLTS ASTM A615, GRADE 60 ASTM F1554 A36

REINFORCING COVERS - FOOTINGS TOP 2" BOTTOM/SIDES 3"

REINFORCING EMBEDMENT AND LAP SLICES (INCHES) FOR 4000 PSI CONCRETE

BAR SIZE	ANCHORAGE	SPLICE (OTHER)	ANCHORAGE (TOP)	SPLICE (TOP)
#4	12	25"	25"	33"

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (3/4")

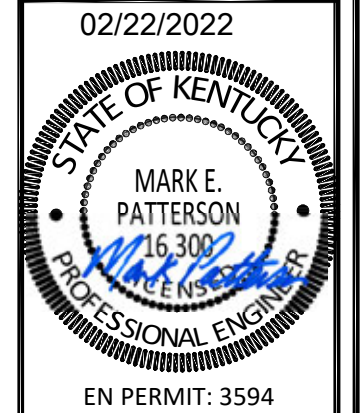
- BURIED CABLE LOCATIONS INFORMATION:**
 CONTACT 48 HR. PRIOR TO DIGGING, GRADING, OR DRILLING 1-800-382-5544 OR 811

ADDITIONAL CONCRETE NOTES:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI*96, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 305, 306 AND 307 UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-11.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±1%) AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.



820 MORRIS TURNPIKE - STE 104
 SHORT HILLS, NJ 07078



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KY007

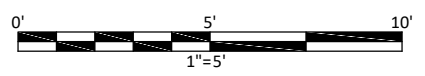
VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.17.17

SHEET TITLE:
FOUNDATION PLAN AND STRUCTURAL NOTES

SHEET NUMBER:
S-1



FOUNDATION PLAN
 SCALE: 1" = 5'

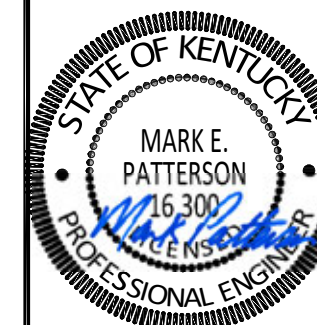


1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



820 MORRIS TURNPIKE - STE 104
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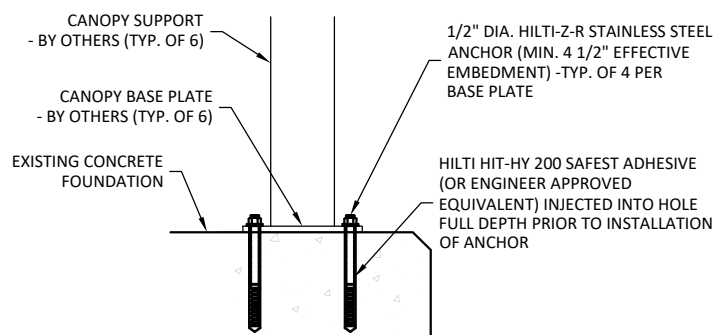
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DRAWN BY: POD
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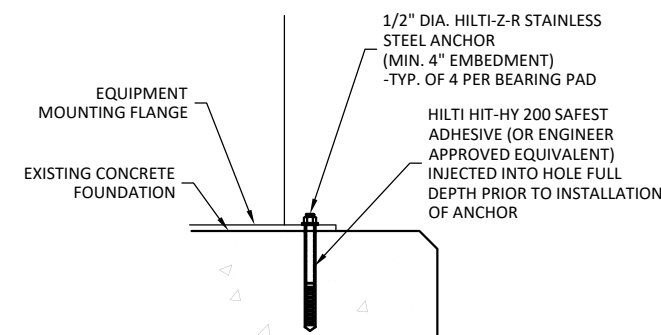
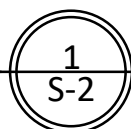
SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S-2



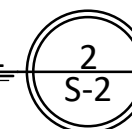
CANOPY BASE PLATE ANCHOR DETAIL

SCALE: N.T.S. (VZW GC)



EQUIPMENT ANCHOR DETAIL

SCALE: N.T.S.



02/22/2022



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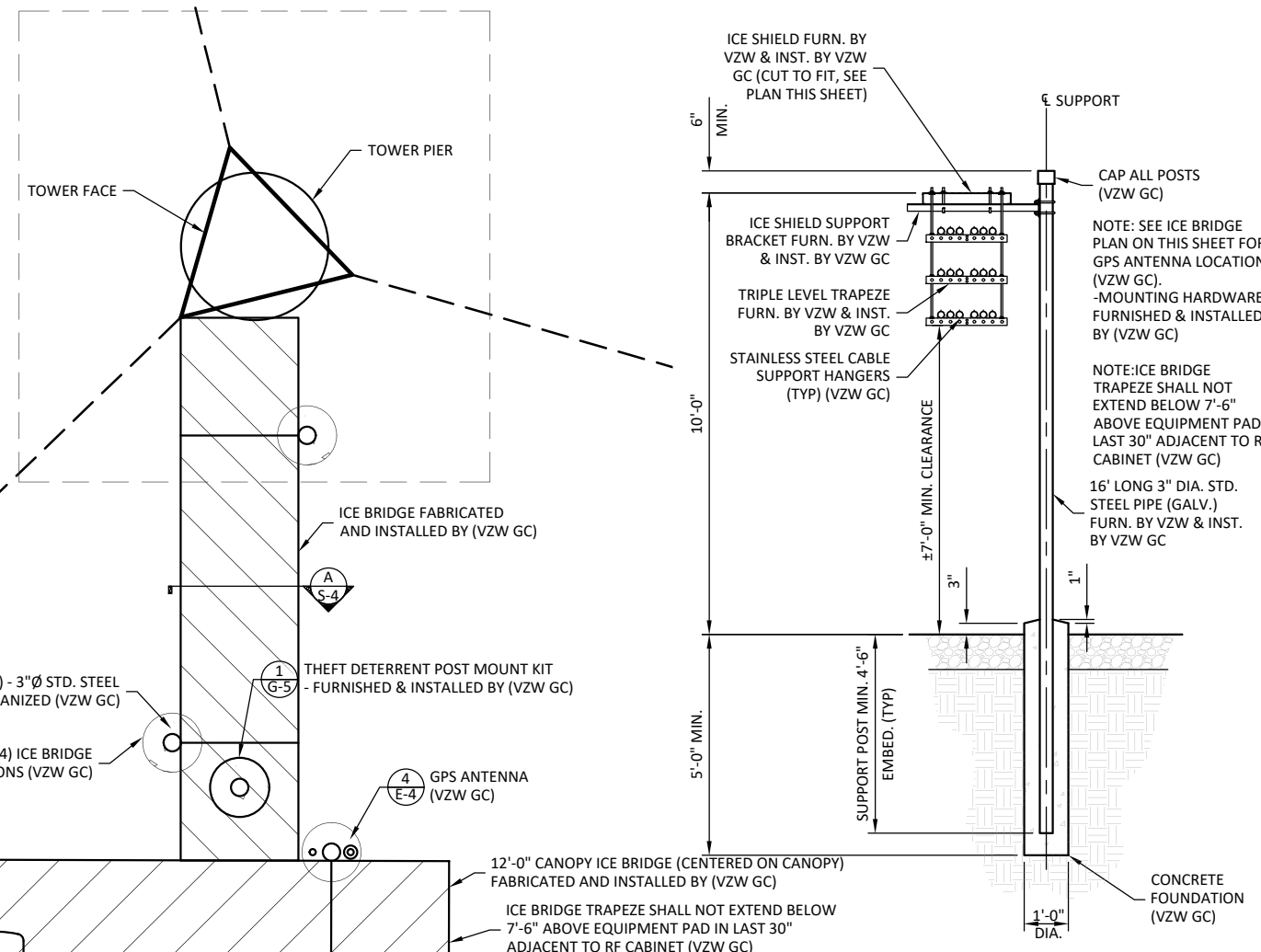
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CHECKED BY: MEP
DATE: 01.17.17

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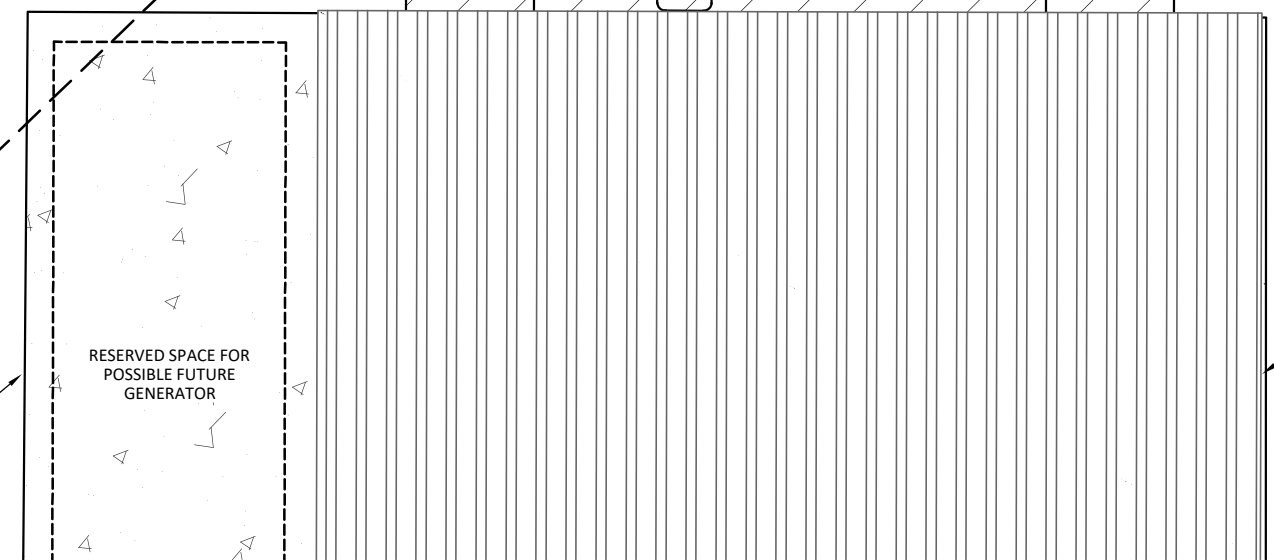
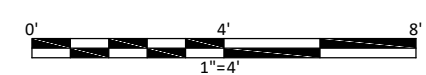
ICE BRIDGE DETAILS

SHEET NUMBER:

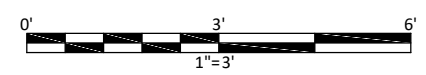
S-3



ICE BRIDGE SECTION A
S-3
SCALE: 1" = 4"



ICE BRIDGE PLAN
SCALE: 1" = 3"



EX. VERIZON WIRELESS
CONCRETE PAD

RESERVED SPACE FOR
POSSIBLE FUTURE
GENERATOR

LIMIT OF VERIZON WIRELESS
EQUIPMENT CANOPY (VZW GC)

(4) - 3"Ø STD. STEEL
PIPE GALVANIZED (VZW GC)

(4) ICE BRIDGE
FOUNDATIONS (VZW GC)

1 THEFT DETERRENT POST MOUNT KIT
G-5 - FURNISHED & INSTALLED BY (VZW GC)

4 GPS ANTENNA
E-4 (VZW GC)

12'-0" CANOPY ICE BRIDGE (CENTERED ON CANOPY)
FABRICATED AND INSTALLED BY (VZW GC)

ICE BRIDGE TRAPEZE SHALL NOT EXTEND BELOW
7'-6" ABOVE EQUIPMENT PAD IN LAST 30"
ADJACENT TO RF CABINET (VZW GC)

ICE SHIELD FURN. BY
VZW & INST. BY VZW
GC (CUT TO FIT, SEE
PLAN THIS SHEET)

6"
MIN.

ICE SHIELD SUPPORT
BRACKET FURN. BY VZW
& INST. BY VZW GC

TRIPLE LEVEL TRAPEZE
FURN. BY VZW & INST.
BY VZW GC

STAINLESS STEEL CABLE
SUPPORT HANGERS
(TYP) (VZW GC)

10'-0"

5'-0" MIN.

SUPPORT POST MIN. 4'-6"
EMBED. (TYP)

3"

1"

1'-0"
DIA.

ε SUPPORT

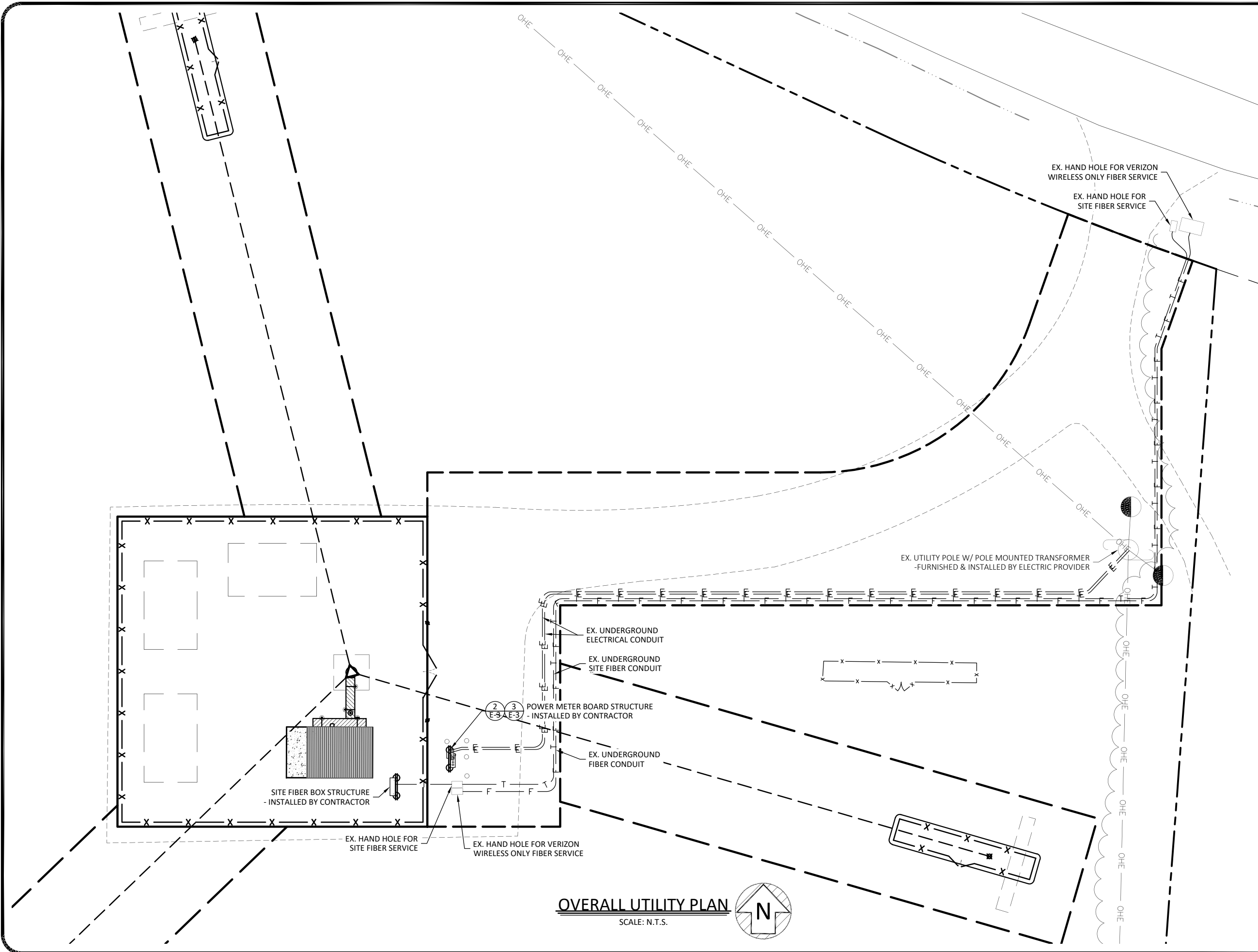
CAP ALL POSTS
(VZW GC)

NOTE: SEE ICE BRIDGE
PLAN ON THIS SHEET FOR
GPS ANTENNA LOCATION
(VZW GC).
-MOUNTING HARDWARE
FURNISHED & INSTALLED
BY (VZW GC)

NOTE: ICE BRIDGE
TRAPEZE SHALL NOT
EXTEND BELOW 7'-6"
ABOVE EQUIPMENT PAD IN
LAST 30" ADJACENT TO RF
CABINET (VZW GC)

16' LONG 3" DIA. STD.
STEEL PIPE (GALV.)
FURN. BY VZW & INST.
BY VZW GC

CONCRETE
FOUNDATION
(VZW GC)



POD
 POWER OF DESIGN
 11490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 502-437-5252

Diamond
 Communications LLC

820 MORRIS TURNPIKE - STE 104
 SHORT HILLS, NJ 07078

02/22/2022

EN PERMIT: 3594

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VERIZON WIRELESS SITE NAME:
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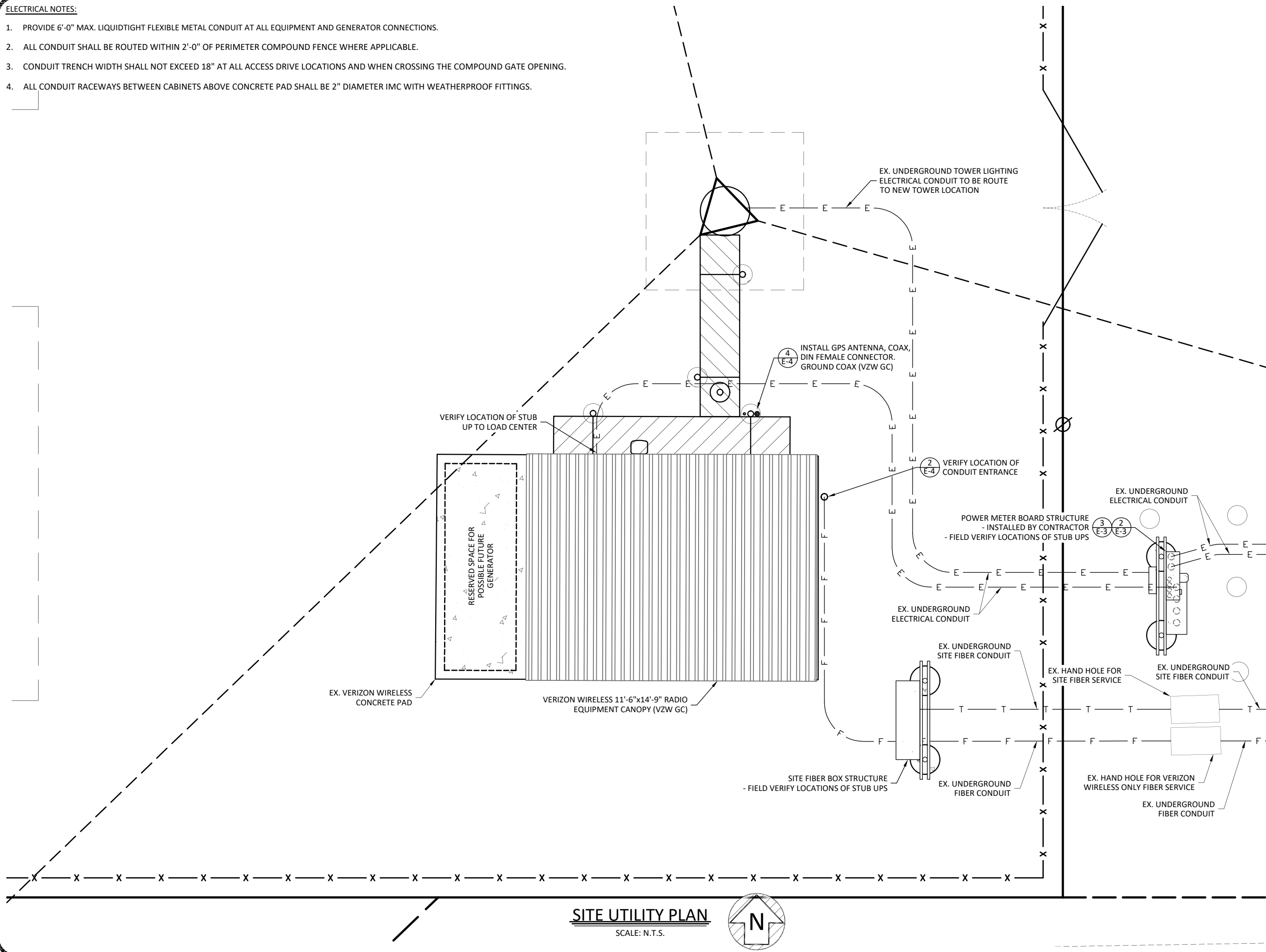
POD NUMBER: 21-118223
 DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.17.17

SHEET TITLE:
OVERALL UTILITY PLAN

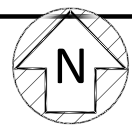
SHEET NUMBER:
E-0


ELECTRICAL NOTES:

1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT AND GENERATOR CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER IMC WITH WEATHERPROOF FITTINGS.




SITE UTILITY PLAN
SCALE: N.T.S.






11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252



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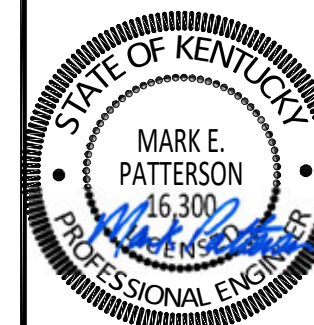
POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
SITE UTILITY PLAN

SHEET NUMBER:
E-1

02/22/2022



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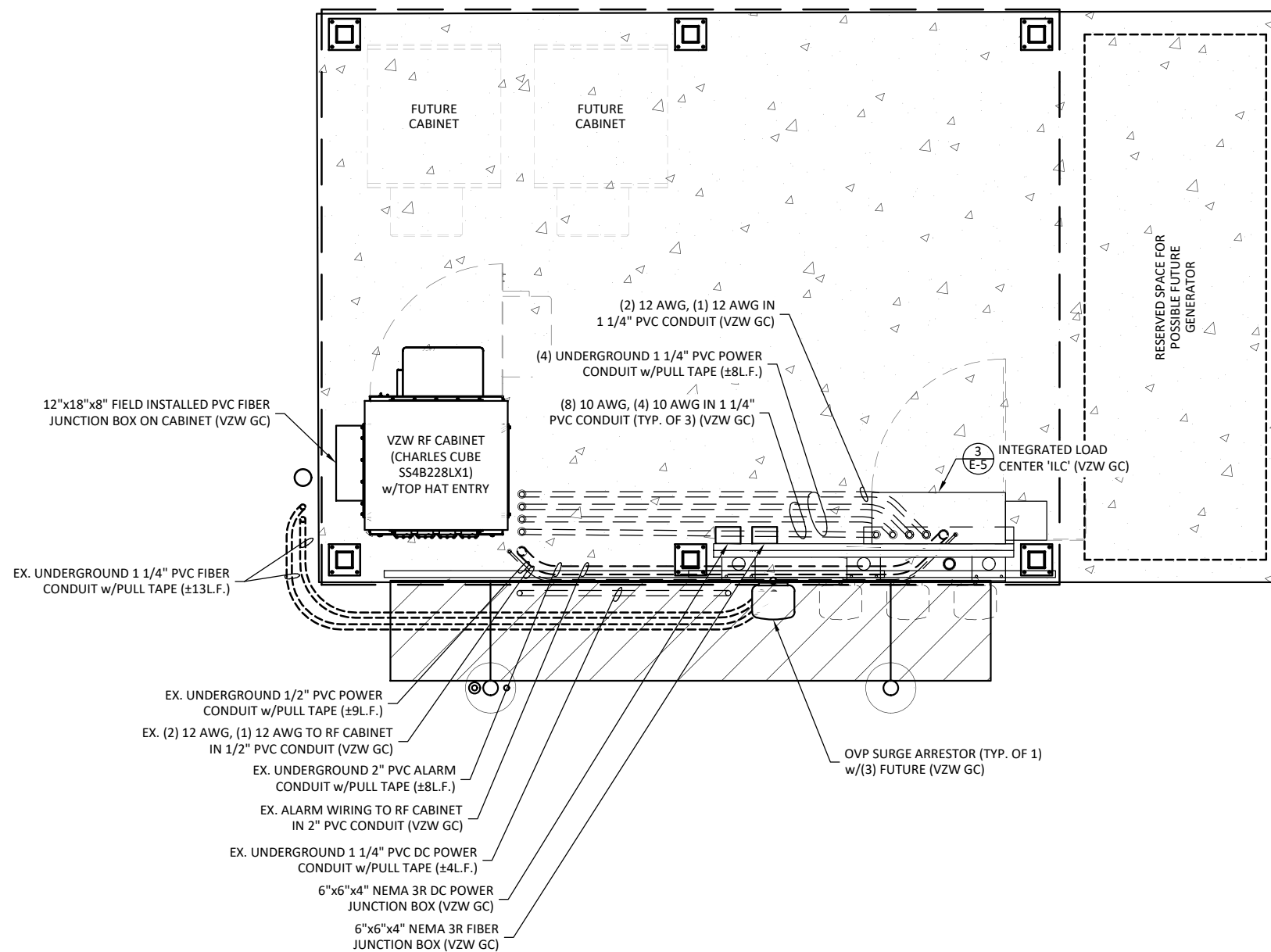
POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
**EQUIPMENT PAD
UTILITY PLAN &
EQUIPMENT PAD
TRENCH SECTIONS**

SHEET NUMBER:

E-2



EQUIPMENT PAD UTILITY PLAN

SCALE: 1" = 3'



NOTE: FIELD VERIFY LOCATIONS OF STUB UPS

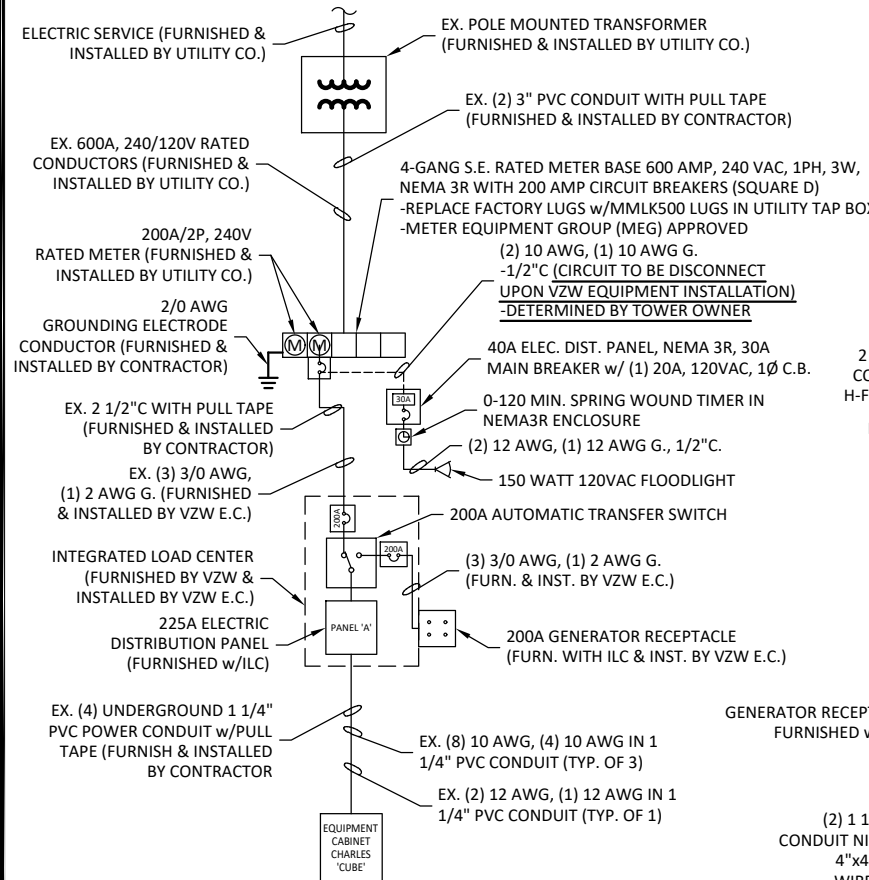
VERIZON PANEL "A" SCHEDULE

MAIN: 225/2 VOLTAGE: 120/240 PHASE: 1 WIRE: 3

DESCRIPTION	BRKR.	WATTS	5/6	5/6	WATTS	BRKR.	DESCRIPTION
RECTIFIER #1	20/2	1800	1	2	1800	20/2	RECTIFIER #2
RECTIFIER #3	20/2	1800	5	6	1800	20/2	RECTIFIER #4
RECTIFIER #5	20/2	1800	9	10	1800	20/2	RECTIFIER #6
RECTIFIER #7	20/2	1800	13	14	1800	20/2	RECTIFIER #8
SPACE			17	18			SPACE
SPACE			19	20			SPACE
SPACE			21	22			SPACE
SPACE			23	24			SPACE
SPACE			25	26			SPACE
SPACE			27	28			SPACE
SPACE			29	30			SPACE
SPACE			31	32			SPACE
SPACE			33	34			SPACE
CANOPY LIGHTS	20/1	126	35	36	180	15/1	GFCI RECEPTACLE (CHARLES CUBE)

SURFACE MOUNTED NEMA 3R w/DOOR NON-CONTINUOUS LOAD = 0.00 KW, 00.00 AMPS
 22K AIC BREAKERS CONTINUOUS LOAD = 29.11 KW X 1.25 = 36.39 KW, 151.61 AMPS
 (E.C. SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.) TOTAL CONNECTED LOAD = 36.39 KW, 151.61 AMPS

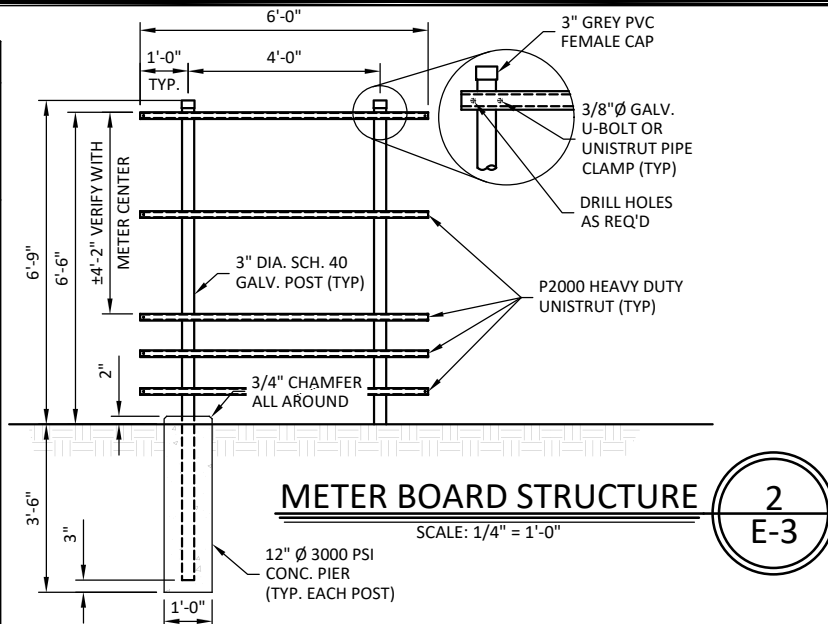
PANEL SCHEDULE "A"



ONE LINE DIAGRAM

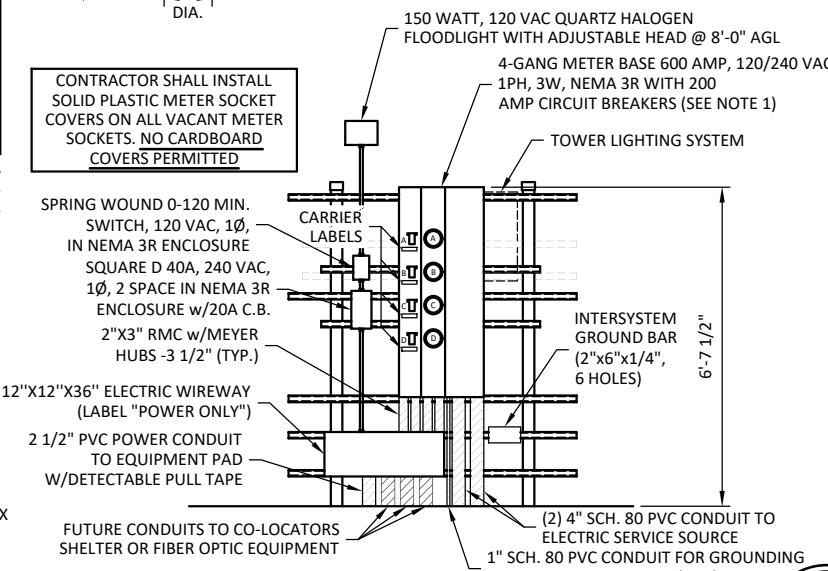
SCALE: N.T.S.

1
E-3

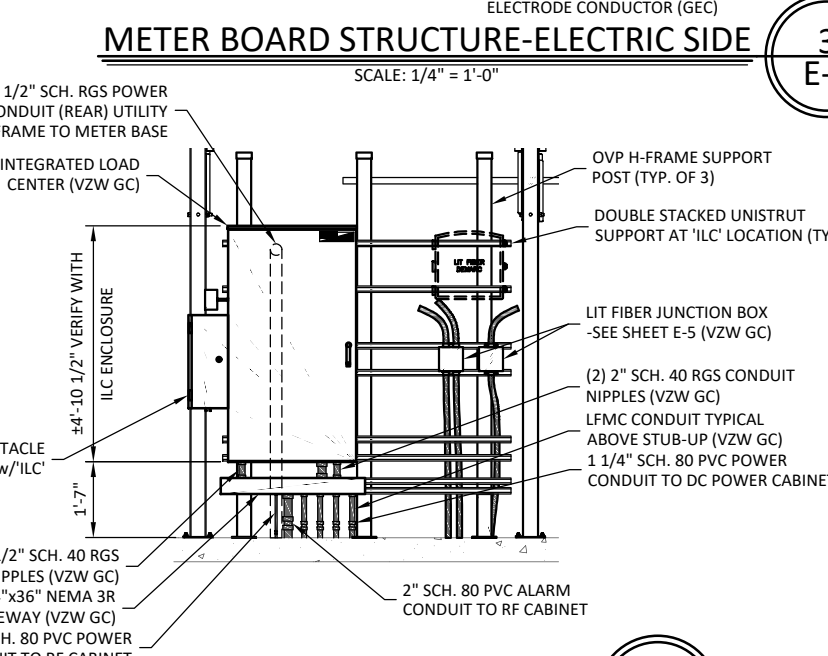


METER BOARD STRUCTURE

2
E-3



3
E-3



4
E-3

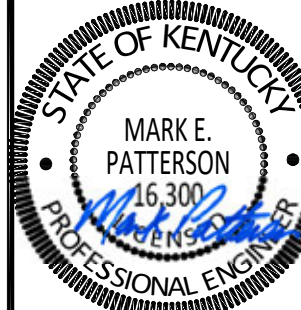
GENERAL ELECTRICAL NOTES

- UNLESS NOTED AS VERIZON WIRELESS GENERAL CONTRACTOR OR VZW GC, ALL WORK ITEMS ON ELECTRICAL "E" & GROUNDING "G" SHEETS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR. ALL WORK SHOWN AS NEW UNLESS NOTED EXISTING.
- THE GENERAL CONTRACTOR AND VERIZON WIRELESS ELECTRICAL CONTRACTORS SHALL BE LICENSED TO PERFORM WORK IN THE COUNTY OF THIS PROJECT AND SHALL BE RESPONSIBLE FOR OBTAINING AN ELECTRICAL PERMIT FROM THE COUNTY.
- UNDERGROUND CONDUIT SHALL BE SCH. 40 PVC PLASTIC DUCT WITH ALL BENDS MINIMUM 24" RADIUS 90° SWEEP SCH. 80 UNLESS OTHERWISE NOTED ON DRAWINGS. ELECTRICAL AND FIBER UTILITY LATERAL CONDUITS SHALL BE MINIMUM 36" RADIUS 90° SWEEP SCH. 80. ALL PVC SCH80 PIPING AND FITTINGS SHALL USE BELL END WHERE FEASIBLE.
- ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
- PRIOR TO TRENCHING AND FOR COORDINATING OF THE FIBER AND ELECTRICAL SERVICES, SEE SHEET C-6 GENERAL NOTE #6 FOR UTILITY CONTACT NAMES & PHONE NUMBERS.
- ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 80 PVC WITH MATCHING FITTINGS UNLESS NOTED OTHERWISE.
- ALL WIRE SHALL BE COPPER, 600V THHN-2/THWN-2 OR XHHW-2 90°C UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL CONTRACTORS SHALL ABIDE BY ALL GUIDELINES REQUIRED BY TOWER OWNER AND VERIZON WIRELESS, INCLUDING BUT NOT LIMITED TO, a) STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE. b) PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER. c) PROVIDE R.F. MONITORING DEVICES TO TOWER PERSONNEL. d) VERIZON WIRELESS TO INSPECT ALL TRENCHING BEFORE BACKFILLING.
- THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUITS SHOWN ON PLANS UNLESS NOTED OTHERWISE. ALL UNDERGROUND CONDUIT SHALL BE STUBBED-UP AND CAPPED AT THE LOCATION INDICATED ON PLANS. VZW CONTRACTOR SHALL COMPLETE ALL CONDUIT TERMINATIONS TO VZW ENCLOSURES.
- THE VZW ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE REQUIRED - 120/240V, SINGLE PHASE, 200 AMP BEFORE ROUGH IN.
- GENERAL CONTRACTOR AND VZW ELECTRICAL CONTRACTORS SHALL PROVIDE FIRE WATCH DURING ALL WELDING OPERATIONS. TWO (2) HAND HELD 30 LB. FIRE EXTINGUISHERS & ADEQUATE WATER SUPPLY SHALL BE APPROVED BY THE CLIENT AND THE TOWNSHIP WATER AUTHORITY.
- SEAL ALL PENETRATIONS WITH SILICONE SEALANT.
- ELECTRICAL WORK PRESENTS SPECIFIC THREATS TO THE HEALTH AND SAFETY OF WORKERS ON SITE. SPECIFICALLY ELECTROCUTIONS ARE THE FOURTH LEADING CAUSE OF DEATH ON CONSTRUCTION SITES. ALL ELECTRICAL WORKERS SHALL HAVE CURRENT CERTIFICATIONS WHICH SATISFY ALL TRAINING REQUIREMENTS FOR THE ELECTRICAL WORK THEY ARE PERFORMING PER OSHA STANDARDS. ALL ELECTRICAL WORKERS SHALL ADHERE TO ALL SAFETY RULES AND REGULATIONS FOR WORKER AND PUBLIC SAFETY. ALL WORK SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS TRAINED FOR THE TYPE OF WORK AND THE VOLTAGES PRESENT FOR EACH TASK. THE CONTRACTOR SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, NFPA 70E, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.
- CONNECT NEUTRAL TERMINAL IN SERVICE DISCONNECTING DEVICE TO GROUNDING ELECTRODE. (2/0 AWG TINNED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT FIRST GROUNDING ELECTRODE TO SECOND GROUNDING ELECTRODE WITH 2/0 AWG TINNED STRANDED COPPER CONDUCTOR EXOTHERMICALLY WELDED TO ELECTRODES.
- VZW E.C. SHALL VERIFY SUFFICIENT CAPACITY EXISTS AT EXISTING METER CENTER. NOTIFY ENGINEER IMMEDIATELY IF SERVICE IS NOT ADEQUATE.
- REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT PLACARDS MUST BE ENGRAVED PLASTIC LABELS ONLY, NO P-TOUCH LABELS ARE TO BE USED. PLACARDS SHALL BE 1 1/2" x 5" IN SIZE AND PERMANENTLY AFFIXED TO THE ENCLOSURES EASILY VISIBLE LOCATIONS.
- VERIZON WIRELESS ELECTRICAL PLACARD REQUIREMENTS:
 - AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE.
 - VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE.
 - VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER 'ILC'.
 - GENERATOR NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND INTEGRATED LOAD CENTER 'ILC' NEUTRAL BAR.
 - VERIZON WIRELESS GENERATOR
 - 'ACCESS PROPERTY OF VERIZON WIRELESS' AT ALL VERIZON WIRELESS FIBER HAND HOLES FASTENED TO INSIDE WALL OF HAND HOLE.
- ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
- ELECTRICAL EQUIPMENT SHALL BE MIN 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
- 2 AWG BARE SOLID TINNED COPPER WIRE LEADS FROM NEW H-FRAME STRUCTURE TO BE BONDED TO EXISTING GROUNDING SYSTEM (TYP)
- ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH 2 AWG TO GROUND RING.
- ALL ABOVE GRADE GROUND VZW CONNECTIONS SHALL BE IN 1/2" FLEXIBLE PVC CONDUIT w/ANTI-THEFT COMPOUND. ALL OTHER LEADS SHALL BE IN 1/2" PVC CONDUIT.
- ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL, NO ZINC OR OTHER MATERIAL IS TO BE USED.
- VERIZON WIRELESS FURNISH & INSTALL ALL INNER CONNECTING CONDUITS BETWEEN CABINETS AND LAND ALL AC POWER TO VZW EQUIPMENT.
- ALL CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE METERBOARD SO THAT WATER WILL NOT FLOW FROM THE EQUIPMENT. TRENCHES SHALL BE EXCAVATED ALONG STRAIGHT LINES BEFORE CONDUIT ARE INSTALLED SO THE ELEVATION CAN BE ADJUSTED, IF NECESSARY, TO AVOID UNSEEN OBSTACLES.
- PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION, CHECK STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.



820 MORRIS TURNPIKE - STE 104
 SHORT HILLS, NJ 07078

02/22/2022



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CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFD'S
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
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 1311 CLINTON MOSCOW RD
 FULTON, KY 42041
 FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.17.17

SHEET TITLE:
PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS

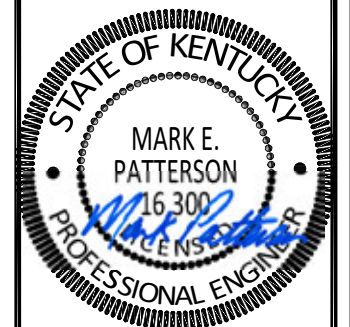
SHEET NUMBER:

E-3



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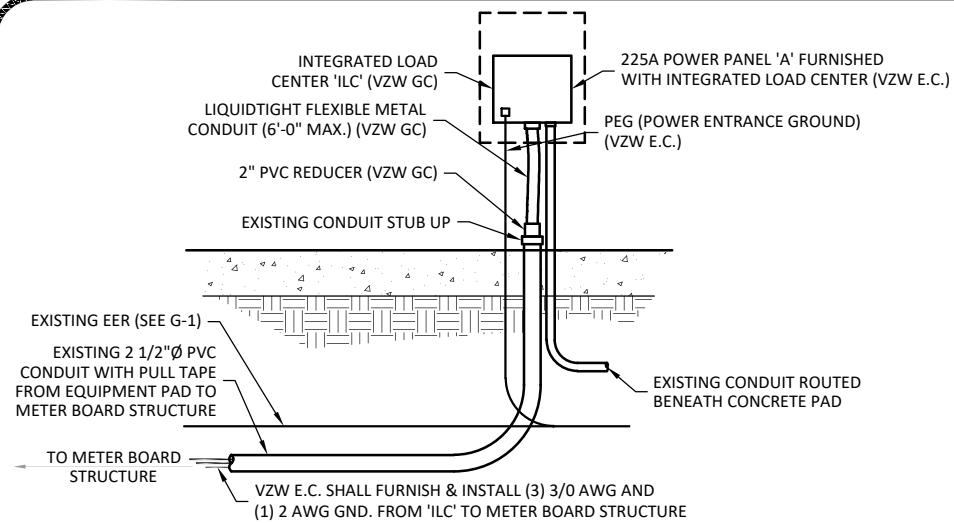
POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

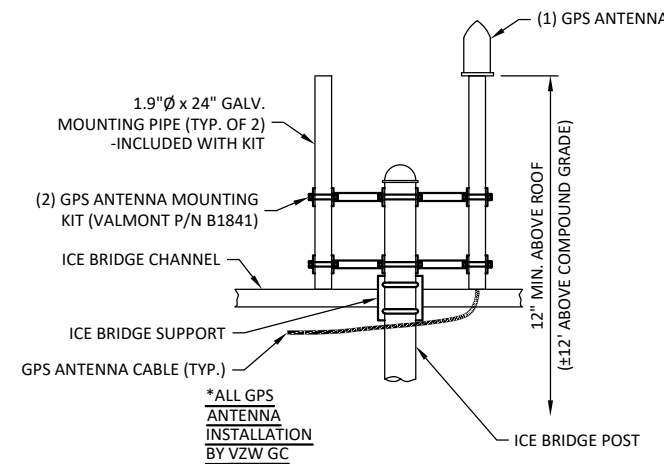
ELECTRICAL DETAILS

SHEET NUMBER:

E-4

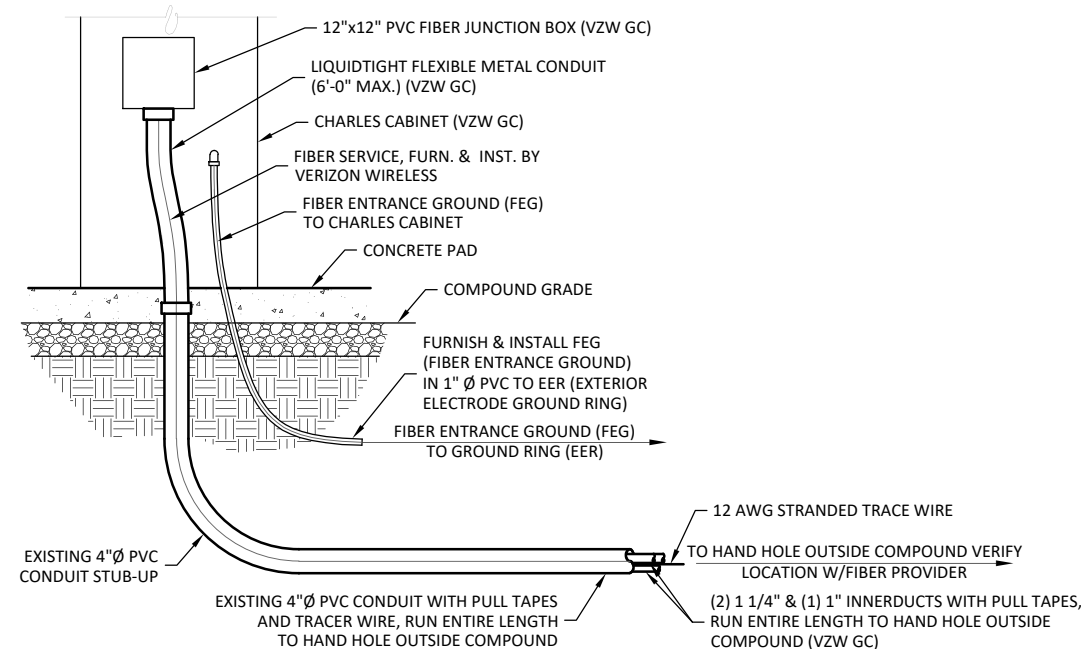


SERVICE ENTRANCE DETAIL 1
SCALE: N.T.S. E-4

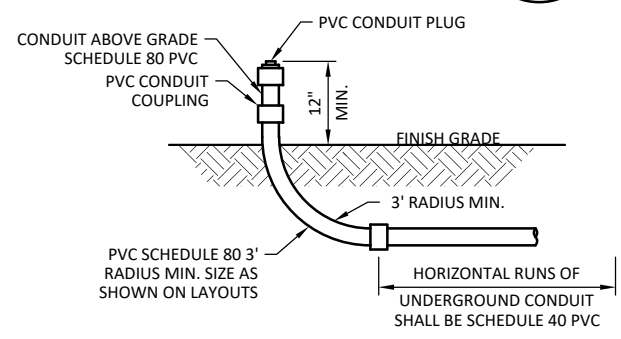


NOTE:
GPS ANTENNA MUST BE INSTALLED IN SUCH A MANNER AS TO PROVIDE A 360° CLEAR VIEW OF THE SKY AT ITS LOWEST MOUNTING POINT

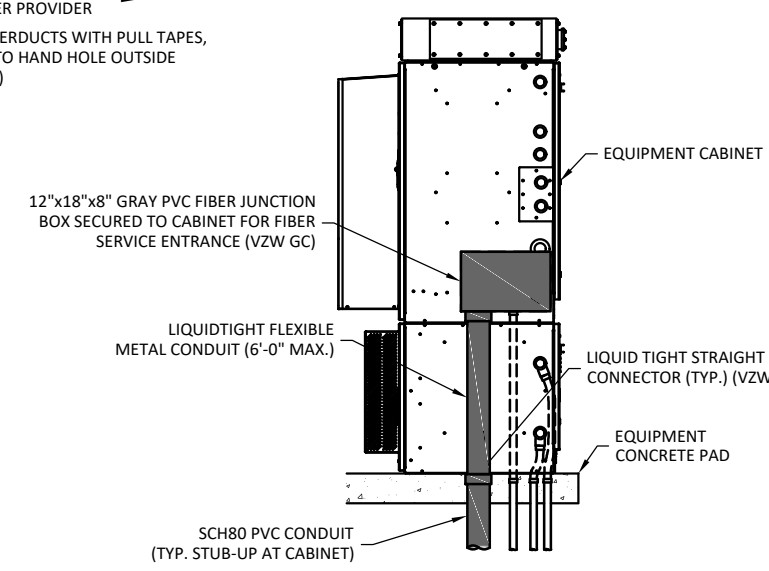
GPS MOUNT DETAIL 4
SCALE: N.T.S. (BY VZW GC) E-4



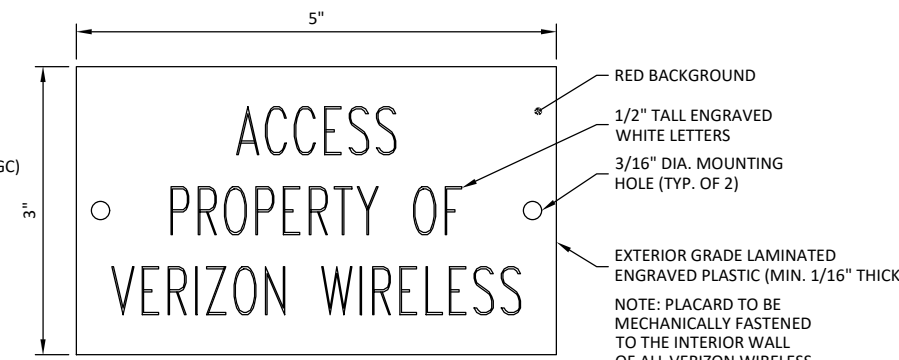
FIBER CONDUIT ENTRANCE DETAIL 2
SCALE: N.T.S. E-4



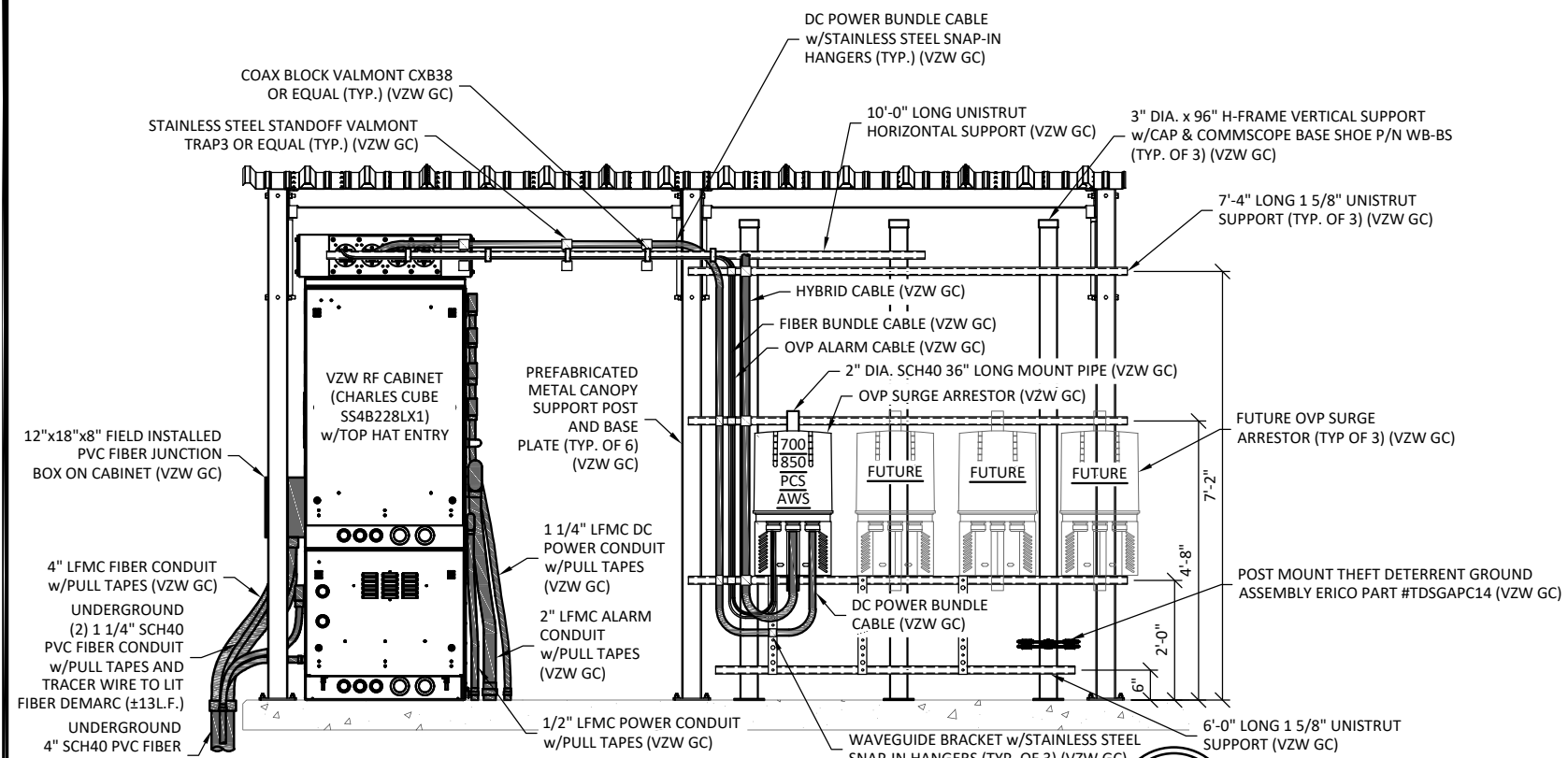
UNDERGROUND CONDUIT STUB-UP DETAIL 3
SCALE: N.T.S. E-4



TYP. CABINET CONDUIT ENTRANCE DETAIL 5
SCALE: N.T.S. (BY VZW GC) E-4



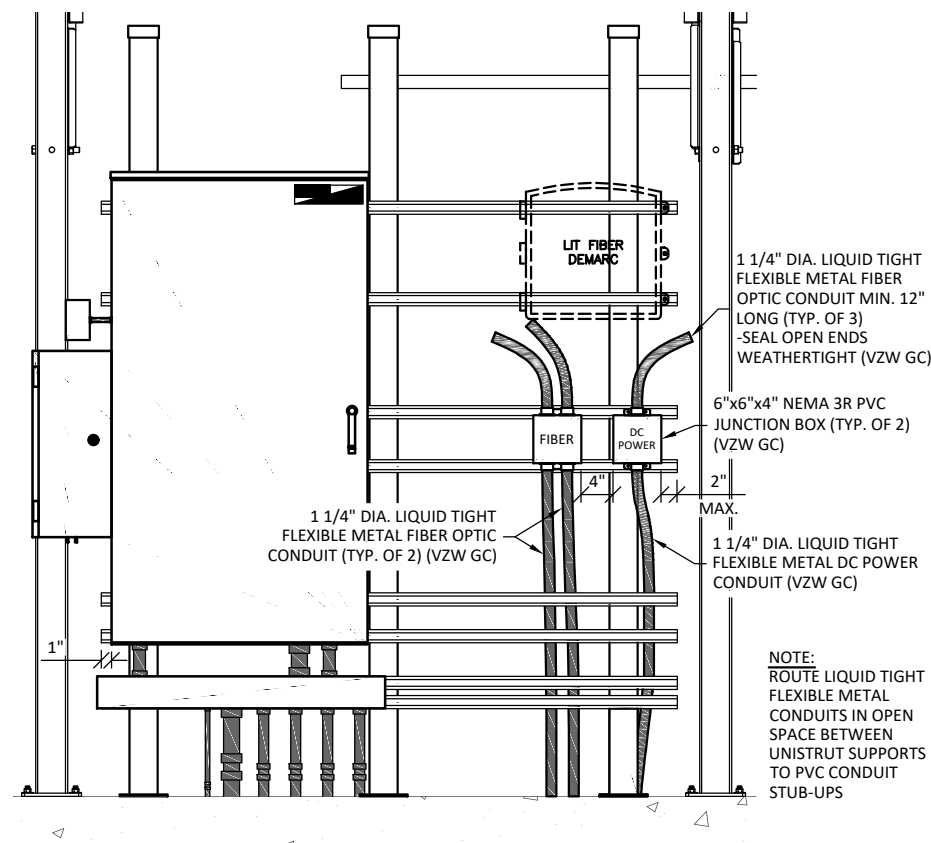
FIBER HAND HOLE PLACARD DETAIL 6
SCALE: N.T.S. E-4



OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) - REAR

SCALE: 1" = 3'

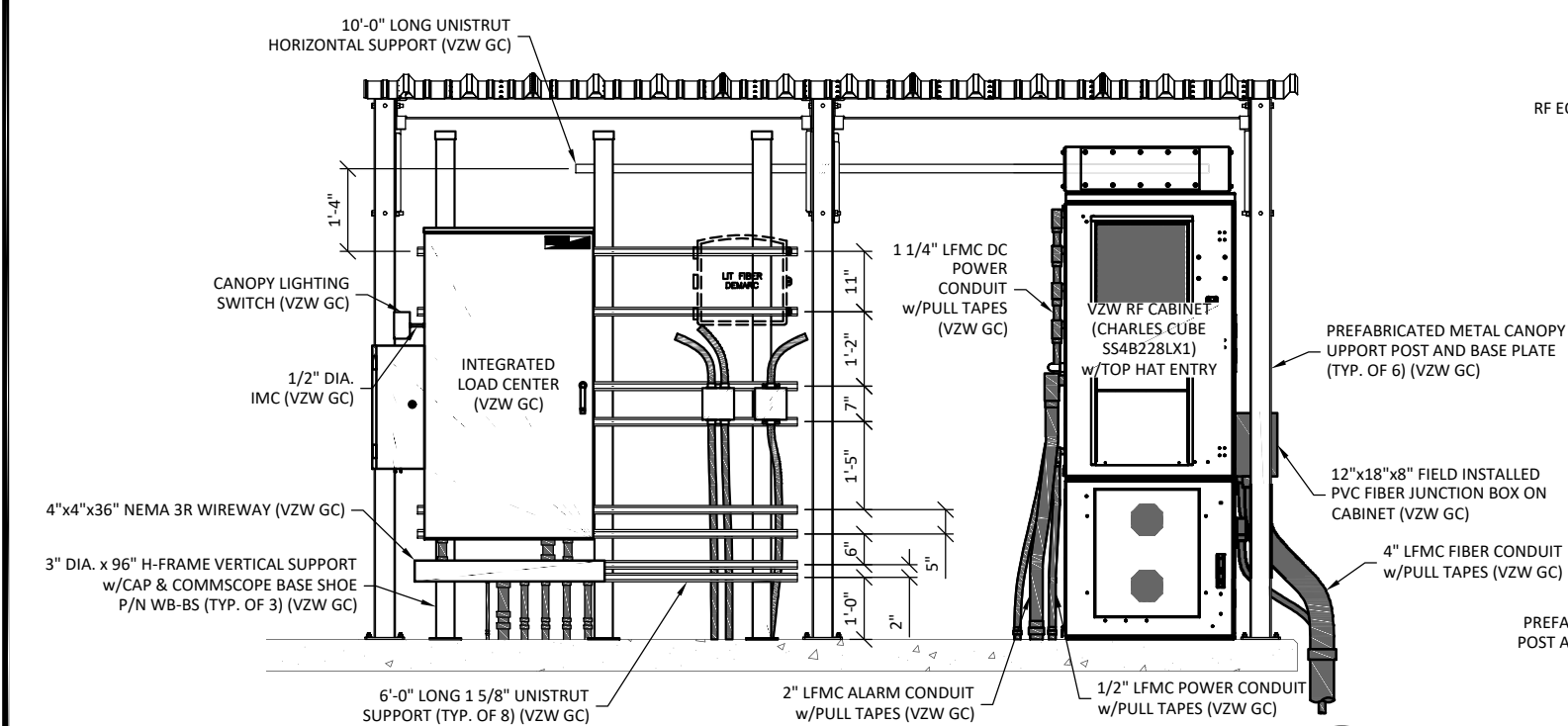
1
E-5



ENLARGED OVP H-FRAME ELEVATION (LIT FIBER DEMARC)

SCALE: 1" = 2'

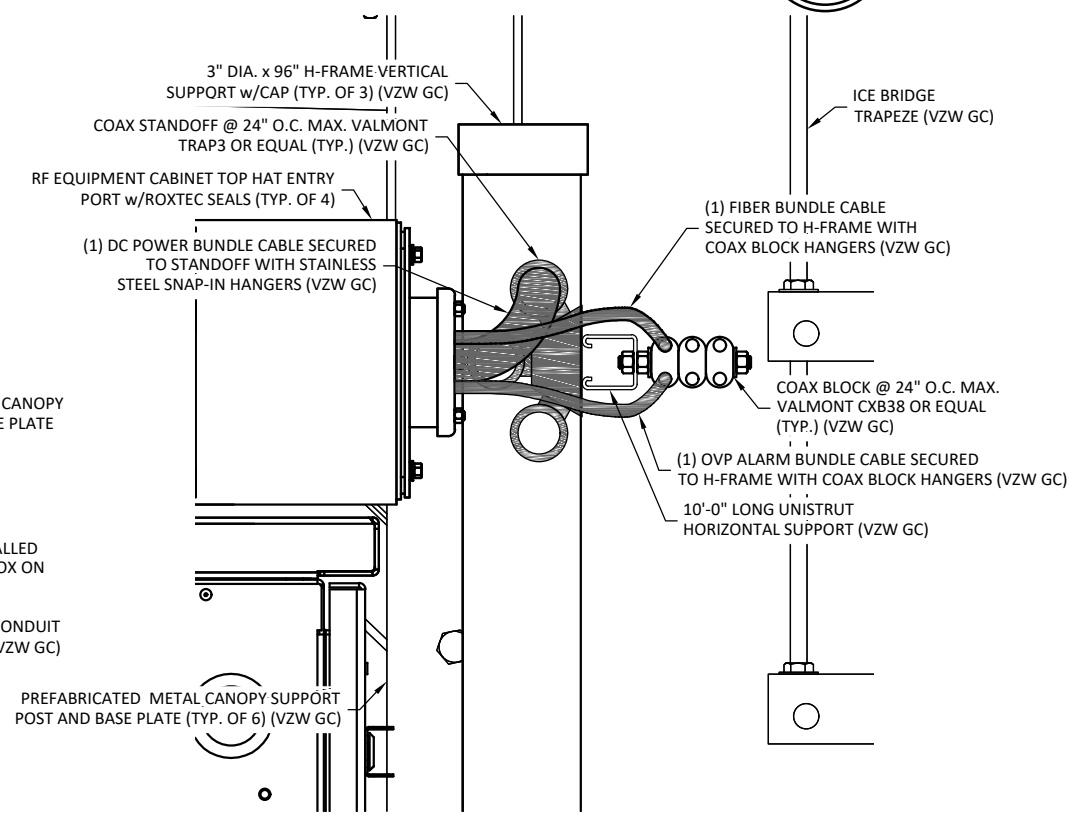
3
E-5



OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT

SCALE: 1" = 3'


2
E-5




ENLARGED CABLE SUPPORT DETAIL

SCALE: N.T.S.

4
E-5




11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252



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POD NUMBER: 21-118223

DRAWN BY: POD
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SHEET TITLE:
OVP & ILC H-FRAME ELEVATIONS AND DETAILS
REFERENCE ONLY

SHEET NUMBER:
E-5

NOTE:
FIBER OPTIC INNERDUCTS SHALL TERMINATE INSIDE CHARLES CABINET ONLY

NOTE:
VERIFY INTERIOR EQUIPMENT LOCATION PRIOR TO JUNCTION BOX FASTENER INSTALLATION. NO SHARP FASTENER EDGES PERMITTED WITHIN CHARLES CABINET



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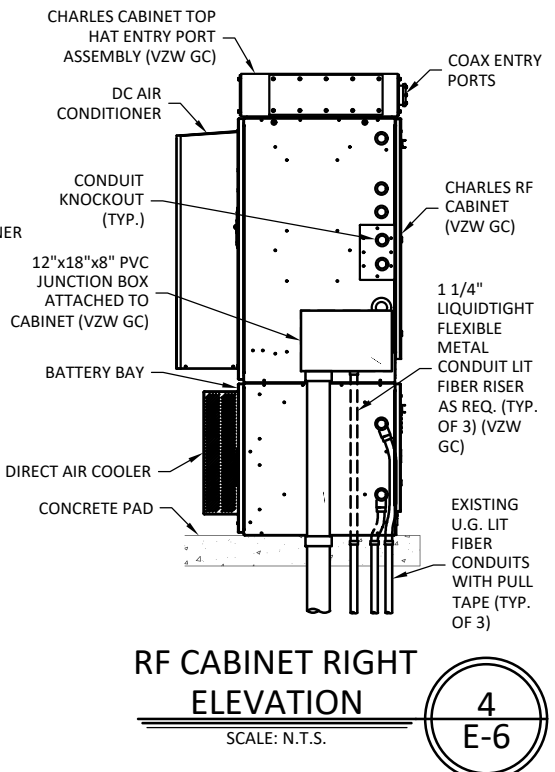
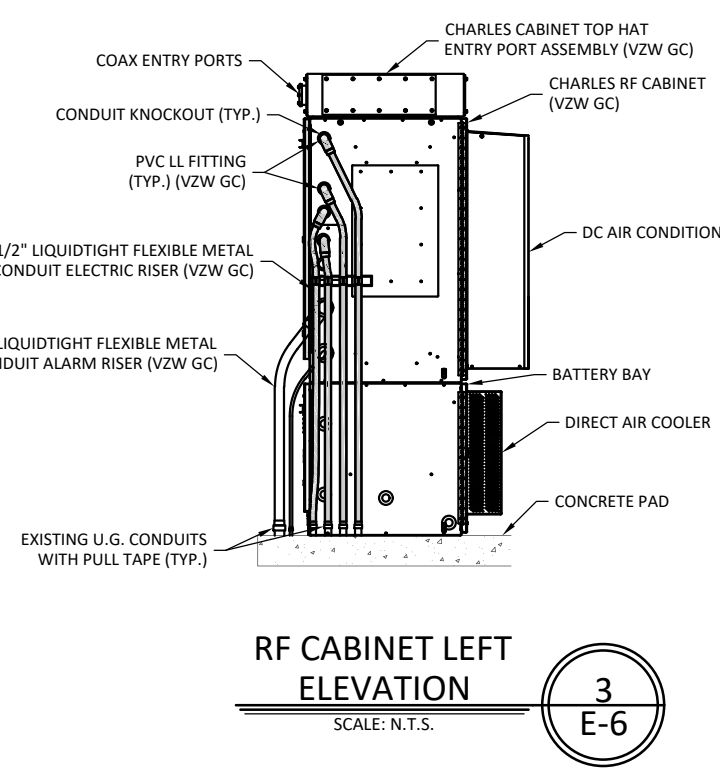
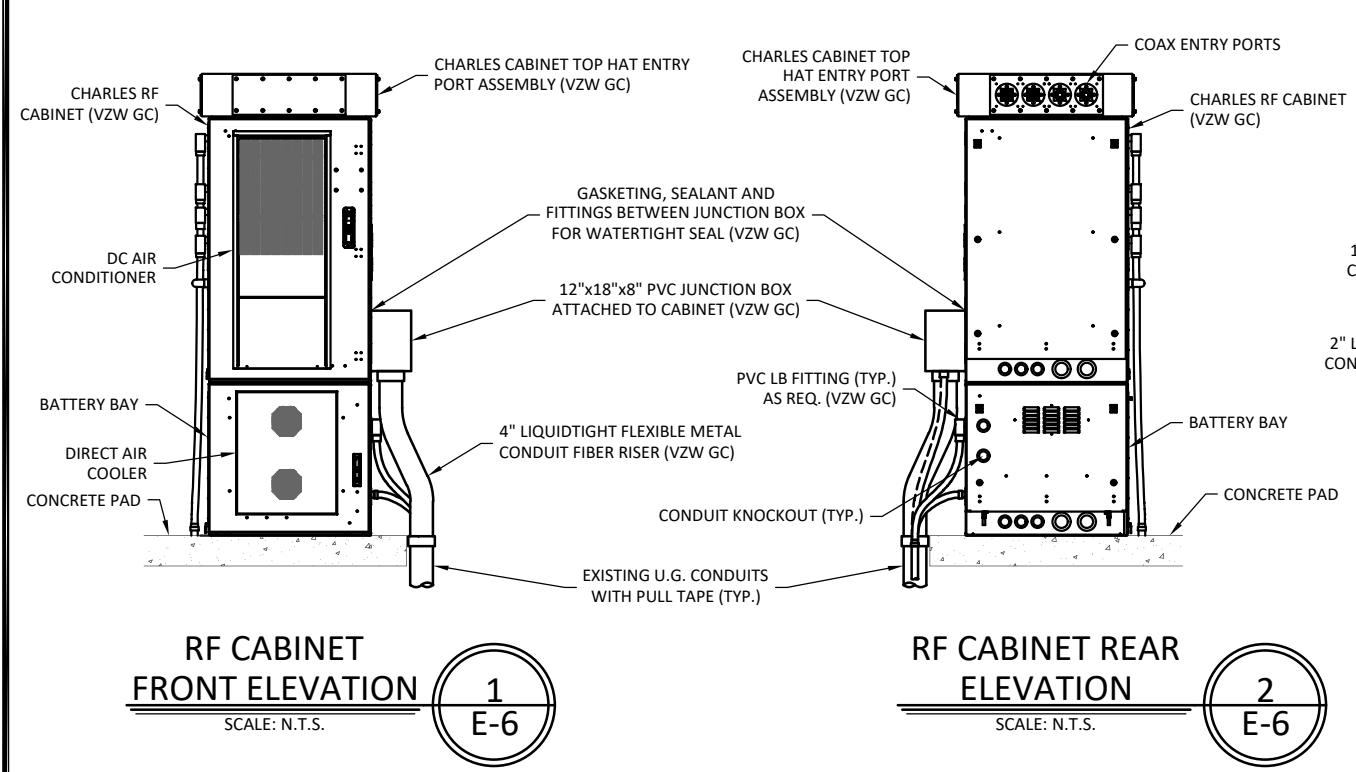
DIAMOND COMMUNICATIONS SITE NUMBER:
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VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
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SHEET TITLE:
EQUIPMENT CABINET ELEVATIONS

SHEET NUMBER:
E-6



02/22/2022



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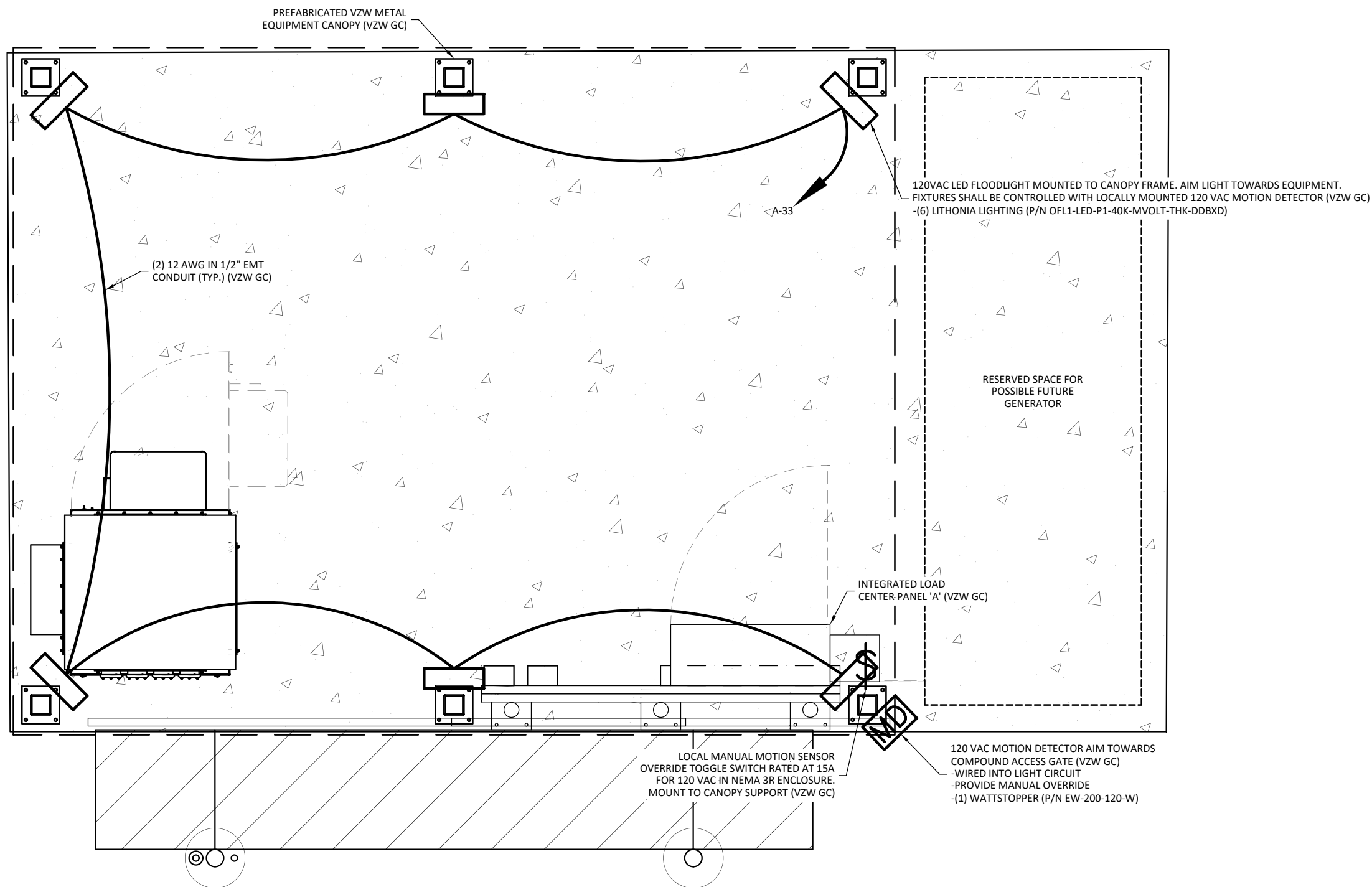
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DATE: 01.17.17

SHEET TITLE:

EQUIPMENT PAD LIGHTING PLAN

SHEET NUMBER:

E-7

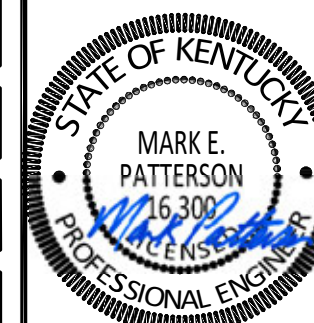


EQUIPMENT PAD LIGHTING PLAN

SCALE: N.T.S.



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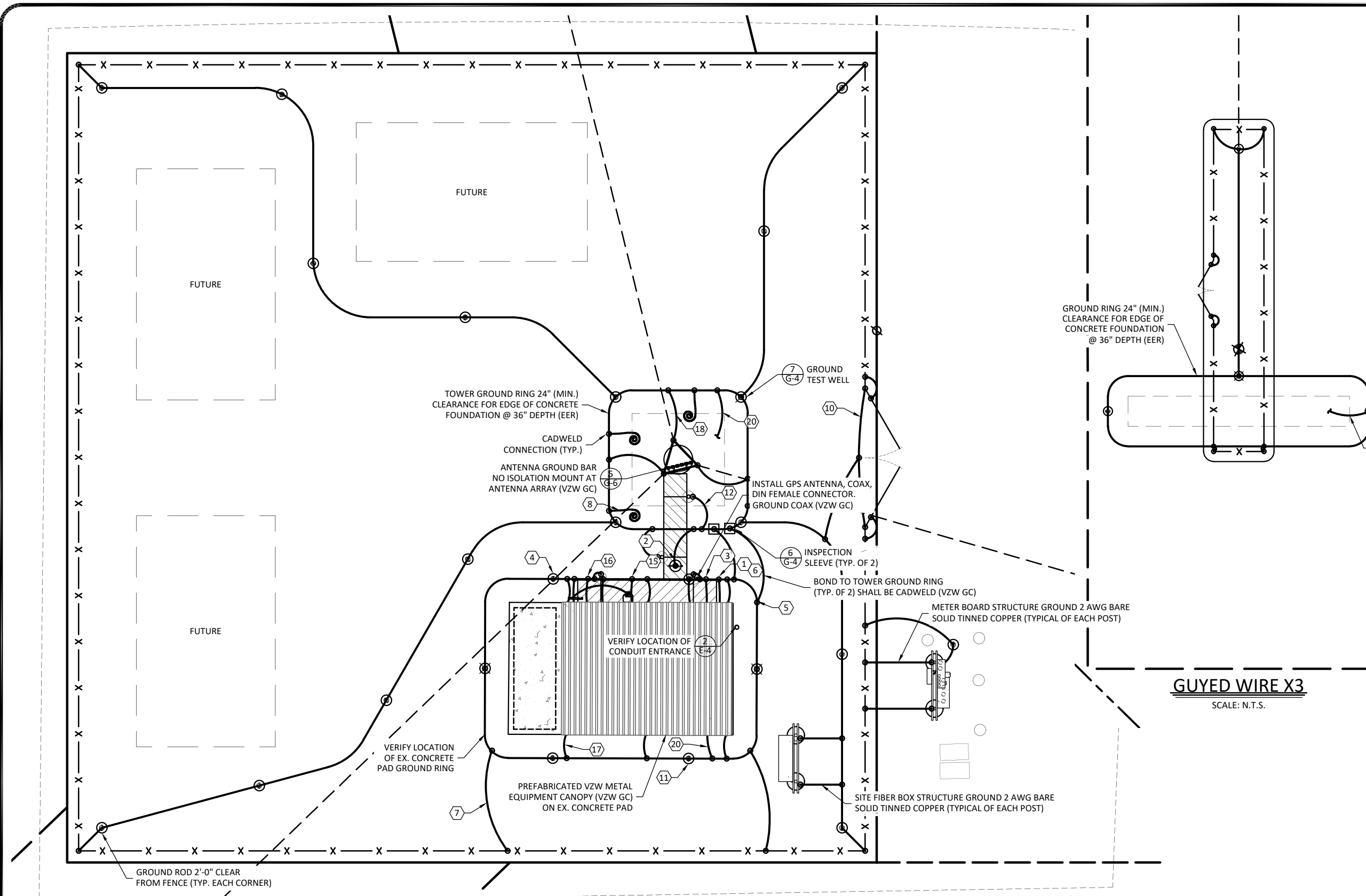
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

GROUNDING SITE PLAN

SHEET NUMBER:

G-1



NOTES:

- ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.
- COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.
- SEE SHEET G-2 FOR GROUNDING KEYED NOTES.

GROUNDING SITE PLAN

SCALE: N.T.S.



TOWER GROUND RING NOTES:

- GROUNDING PLAN SHOWN IS FOR A PAD AND PIER TOWER FOUNDATION. IF THE TOWER OWNER ELECTS TO INSTALL A CAISSON FOUNDATION THE TOWER GROUND RING (EER) WILL BE MODIFIED. THE TOWER GROUND RING (EER) SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS. 24" MIN. CLEARANCE FROM THE TOWER FOUNDATIONS AT 36" MIN. BELOW GRADE.
- ALL GROUND RODS SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS.
- ALL GROUND LEADS DEPICTED ON THIS PLAN SHALL BE MODIFIED TO CONNECT TO THE MODIFIED TOWER GROUND RING (EER) LOCATION.

TOWER OWNER GROUNDING KEYED NOTES

- ① BBG: FURN. & INST. 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE FOR BATTERY BAY GROUND (BBG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ② CEPSSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSSG POST TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ③ CG: FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CABINET GROUND (CG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ④ CSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR ICE BRIDGE CHANNEL TO (EER). COIL UP 15' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ⑤ EER: FURN. & INST. 2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) AROUND RADIO EQUIPMENT PAD AND TOWER BURIED AT 36" OR 6" BELOW FROST LINE (WHICHEVER IS GREATER). MAINTAIN 24" FROM EQUIPMENT PAD AND TOWER FOUNDATIONS MINIMUM.
- ⑥ FEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR FIBER ENTRANCE GROUND (FEG) TO (TGE). COIL UP 10' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑦ FG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FROM NEW FENCING TO GROUND RING (EER). CONNECTION TO FENCING SHALL BE AT THE BASE OF FENCE POST USING CADWELD AND WEAVE GND. WIRE THRU FABRIC AND ATTACH TO TOP RAIL WITH CADWELD. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑧ FTWGL: FURN. & INST. FUTURE TOWER WAVEGUIDE GROUND BAR LEADS. CONTRACTOR SHALL COIL UP TEN (10') OF 2 AWG SOLID TINNED COPPER GROUND (TYP.)
- ⑨ GEG: NOT USED
- ⑩ GG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE AT EACH GATE POST AND PROVIDE GROUND WIRE TO BONDING JUMPER FROM GATE POST TO FENCE POST.
- ⑪ GRE: FURN. & INST. GROUND RODS TO 36" BELOW FINISH GRADE (OR 6" BELOW FROST LINE, WHICHEVER IS GREATER) AT A MINIMUM SPACING OF 10'-0" AT RADIO EQUIPMENT PAD, TOWER AND SITE EXTERIOR GROUND SYSTEM. CONNECTION TO (EER) SHALL BE CADWELD. REFER TO DETAIL 5 ON SHEET G-4.
- ⑫ IBSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-1 FOR ICE BRIDGE POST LOCATIONS.
- ⑬ OGA: BY VZW E.C.
- ⑭ OGL: BY VZW E.C.
- ⑮ OHG: FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). COIL UP 6' ABOVE GRADE (TYP. OF 3 POSTS). CONNECTION (EER) SHALL BE CADWELD.
- ⑯ PEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'ILC' GROUND BAR TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ⑰ PCSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR EACH PAD CANOPY SUPPORT BASE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑱ TBG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM TOWER LEG BASE PLATE TO (EER). CONNECTION TO TOWER LEG BASE PLATE SHALL BE CADWELD OR MECHANICAL TO LEG AND (EER) SHALL BE CADWELD.
- ⑲ TWG: BY VZW E.C.
- ⑳ UG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE (UFER GROUND) FOR FOUNDATION REINFORCEMENT STEEL CONNECTION TO (EER) SHALL BE CADWELD. PROVIDE HEAT SHRINK TUBING OR ELECTRICAL TAPE PROTECTION FOR CONDUCTOR AT TRANSITION BETWEEN CONCRETE AND SOIL.

TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE DIAMOND COMMUNICATIONS LLC SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE DIAMOND COMMUNICATIONS LLC SHALL FURN. & INST. 5/8" x 10" COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE DIAMOND COMMUNICATIONS LLC SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O).
4. UPON COMPLETION OF THE EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUND RING, THE DIAMOND COMMUNICATIONS LLC SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE DIAMOND COMMUNICATIONS LLC SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE DIAMOND COMMUNICATIONS LLC SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE DIAMOND COMMUNICATIONS LLC SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE DIAMOND COMMUNICATIONS LLC SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE DIAMOND COMMUNICATIONS LLC SHALL NOTIFY VERIZON WIRELESS CONSTRUCTION MANAGER AND TOWER OWNER CONSTRUCTION MANAGER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
5. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
6. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
7. ALL EQUIPMENT PAD AND EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.
8. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
9. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
10. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
EKG	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	NOT USED
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND GROUND ASSEMBLY
UG	UFER GROUND
●	CABLE TO CABLE CADWELD CONNECTION
⊙	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL
⊠	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION



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CONSTRUCTION DRAWINGS

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0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
FULTON, KY (CRUTCHFIELD)
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

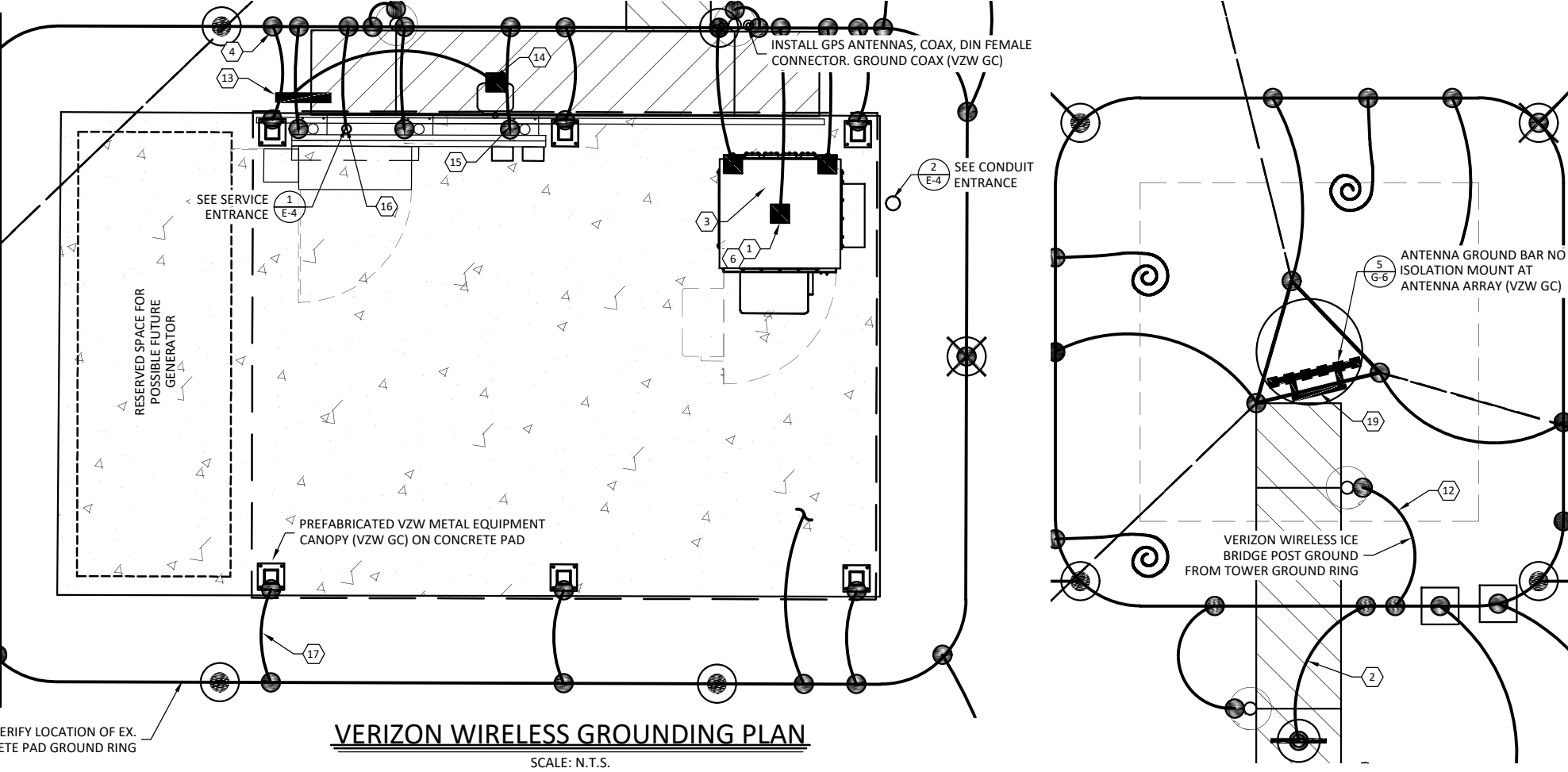
SHEET TITLE:

GROUNDING NOTES

SHEET NUMBER:

G-2

LEGEND	
BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
EGC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND (NOT USED)
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OGH	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND
●	CABLE TO CABLE CADWELD CONNECTION
⊙	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL
⊠	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION



VERIZON WIRELESS GROUNDING PLAN
SCALE: N.T.S.

VERIZON WIRELESS GROUNDING KEYED NOTES

- | | | | |
|---|---|---|--|
| ① | BBG: VZW E.C. SHALL CONNECT THE 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE COILED UP BY THE TOWER OWNER E.C. FOR THE BATTERY BAY GROUND (BBG). CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. | ⑩ | GG: BY TOWER OWNER E.C. |
| ② | CEPSG: VZW E.C. SHALL FURNISH & INSTALL THE THEFT DETERRENT GROUND POST ASSEMBLY PART #TDSGAPC14 FOR THE COAX ENTRY PROTECTION SYSTEM (AS MFG'D. BY ERICO GROUNDING AND SUPPLIED BY VZW E.C.) TO THE POST. CONNECT THE 2 AWG BARE SOLID TINNED COPPER COILED UP BY TOWER OWNER E.C. TO THE POST. THE CONNECTION TO POST SHALL BE CADWELD. REFER TO THE GENERAL INSTALLATION GUIDE AS SUPPLIED WITH THEFT DETERRENT POST MOUNT GROUND ASSEMBLY. SEE DETAIL 1 ON SHEET G-5 FOR DETAILS. | ⑪ | GRE: BY TOWER OWNER E.C. |
| ③ | CG: VZW E.C. SHALL FURNISH & INSTALL TWO HOLE LONG BARREL LUGS ON EXISTING 2 AWG BARE TINNED COPPER LEADS. VZW E.C. SHALL FURNISH & INSTALL DRAGON TOOTH WASHERS AND #8 STAINLESS STEEL FASTENERS ON ALL EQUIPMENT CABINET EXTERIOR GROUND LOCATIONS (TYP. 2 PER CABINET). REMOVE ALL SURFACE PAINT AND USE ANTIOXIDANT COMPOUND BETWEEN METAL AND WASHER. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. DETAIL 3 ON SHEET G-5 FOR DETAILS. | ⑫ | IBSG: VZW E.C. SHALL CONNECT THE 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR ICE BRIDGE SUPPORT POST. CONNECTION TO ICE BRIDGE SUPPORT POST SHALL BE CADWELD. |
| ④ | CSG: VZW E.C. SHALL CONNECT THE 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE COILED BY TOWER OWNER E.C. FOR THE ICE BRIDGE CHANNEL. CONNECTION TO ICE BRIDGE CHANNEL SHALL BE CADWELD. | ⑬ | OGA: VZW E.C. SHALL CONNECT THE THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAPC14 FOR THE OVP GROUND (OGL) DIRECTLY TO THE OVP H-FRAME POST. |
| ⑤ | EER: BY TOWER OWNER E.C. | ⑭ | OGL: VZW E.C. SHALL FURN. & INST. 1 - 6 AWG GREEN INSULATED STRANDED COPPER GND. WIRE FROM OVP GROUND POINT TO OVP GROUND ASSEMBLY (OGA). CONNECTION TO GROUND BAR SHALL BE MECHANICAL. |
| ⑥ | FEG: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR (FIBER ENTRANCE GROUND) INTO THE POWER PLANT CABINET AND MAKE A MECHANICAL CONNECTION TO THE FIBER SERVICE GROUND POINT. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. | ⑮ | OGH: VZW E.C. SHALL CONNECT THE 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR OVP H-FRAME SUPPORT POST (TYP. OF 3 POSTS). CONNECTION TO POST SHALL BE CADWELD. |
| ⑦ | FG: BY TOWER OWNER E.C. | ⑯ | PEG: VZW E.C. SHALL CONNECT 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR THE POWER ENTRANCE GROUND (PEG) COILED UP BY TOWER OWNER E.C. CONNECTION OF THE COILED WIRE TO THE INTEGRATED LOAD CENTER GROUND BAR SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. |
| ⑧ | FTWGL: BY TOWER OWNER E.C. | ⑰ | PCSG: VZW E.C. SHALL CONNECT SOLID TINNED COPPER ONE HOLE GROUND TAB TO COILED UP GROUND WIRE BY TOWER OWNER E.C. WITH AN EXOTHERMIC CONNECTION. THE CONNECTION OF THE COILED GROUND WIRE AND LUG TO THE CANOPY SUPPORT BASE SHALL BE MECHANICAL. SEE DETAIL 3 ON SHEET G-5. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. |
| ⑨ | GEG: NOT USED | ⑱ | TBG: BY TOWER OWNER E.C. |
| | | ⑳ | TWG: VZW E.C. SHALL CONNECT THE THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGABC14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER |
| | | | UG: BY TOWER OWNER E.C. |

VERIZON WIRELESS GROUNDING NOTES

- ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE VZW E.C. AND GENERAL CONTRACTOR E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURN. & INST. 5/8" x 10" COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
- THE VZW E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
- THE GENERAL CONTRACTOR E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE TOWER (EER), FUTURE TOWER WAVEGUIDE GROUND LEADS (FTWGL), GATE GROUND (GG), FENCE (FG), TOWER BASE GROUND (TBG) AND TOWER WAVEGUIDE GROUND (TWG).
- ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
- ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITER ("OXY-GREASE") OR APPROVED EQUAL..
- UPON COMPLETION OF THE TOWER GROUNDING RING, THE GENERAL CONTRACTOR E.C. SHALL MEGGER TEST THE COUMPOUND GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE GENERAL CONTRACTOR E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE GENERAL CONTRACTOR E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE GENERAL CONTRACTOR E.C. SHALL NOTIFY TOWER OWNER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
- UPON COMPLETION OF THE RADIO EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUNDING RING, THE VZW E.C. SHALL MEGGER TEST THE EQUIPMENT PAD GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE VZW E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE VZW E.C. SHALL SUBMIT PRICING TO VERIZON WIRELESS FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM VERIZON WIRELESS, THE VZW E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE VZW E.C. SHALL BOND THE RADIO EQUIPMENT PAD GROUND RING TO THE TOWER GROUND RING. THE VZW E.C. SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
- GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
- GROUND ASSEMBLIES SHALL BE THEFT DETERRENT DESIGN AS MANUFACTURED BY ERICO INC. AND FURNISHED BY VERIZON WIRELESS. PROVIDE TWO (2) LUG HOLES PER VERIZON WIRELESS STANDARDS. UNLESS NOTED OTHERWISE.
- ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
- BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
- CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
- NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.



820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022

EN PERMIT: 3594

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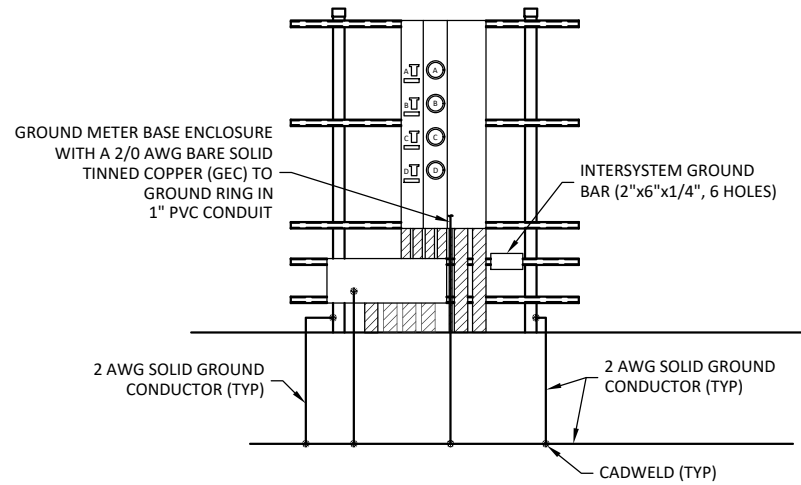
DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

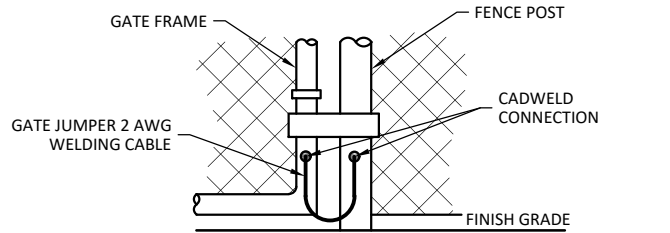
POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
VERIZON WIRELESS GROUNDING PLAN AND NOTES

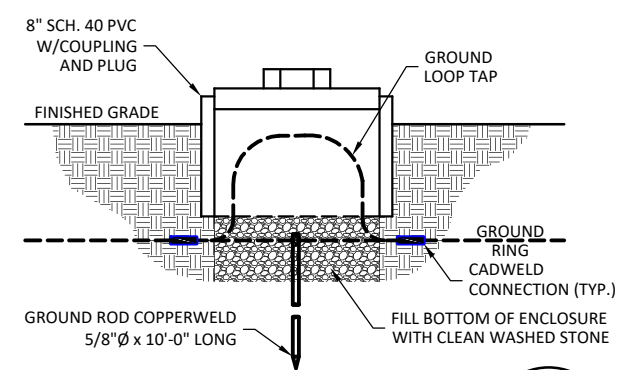
SHEET NUMBER:
G-3



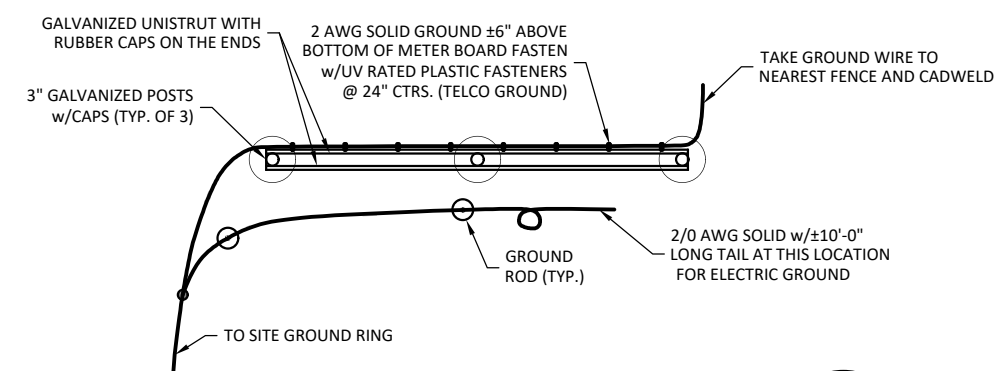
METER BOARD STRUCTURE GROUNDING 1 G-4
SCALE: 1/4" = 1'



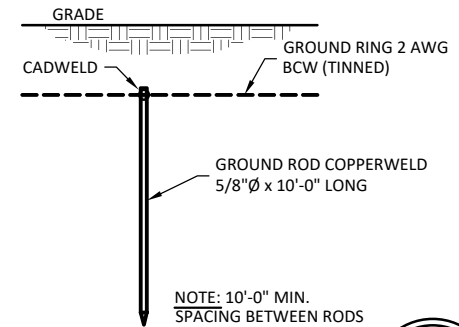
GATE GROUNDING DETAIL 4 G-4
SCALE: N.T.S.



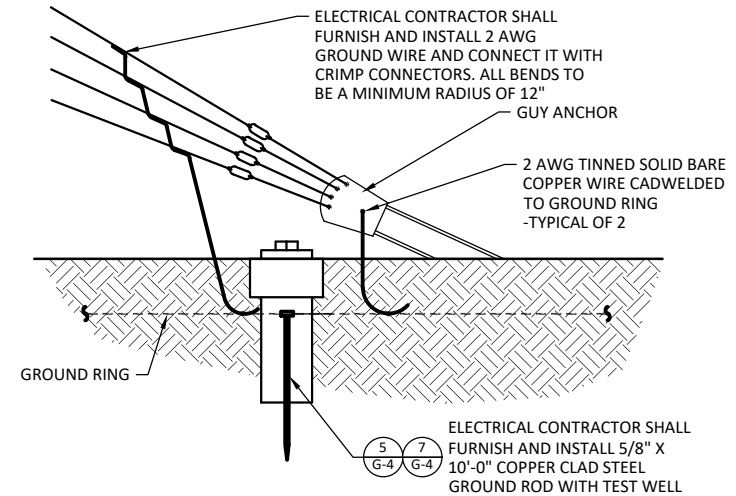
GROUND TEST WELL DETAIL 7 G-4
SCALE: N.T.S.



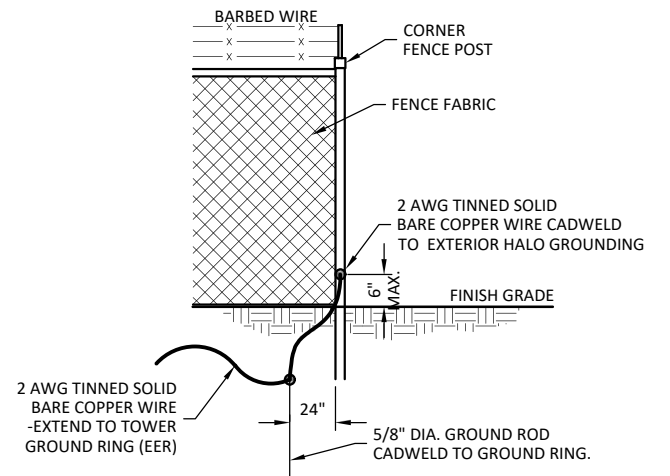
METER BOARD STRUCTURE GROUND PLAN 2 G-4
SCALE: N.T.S.



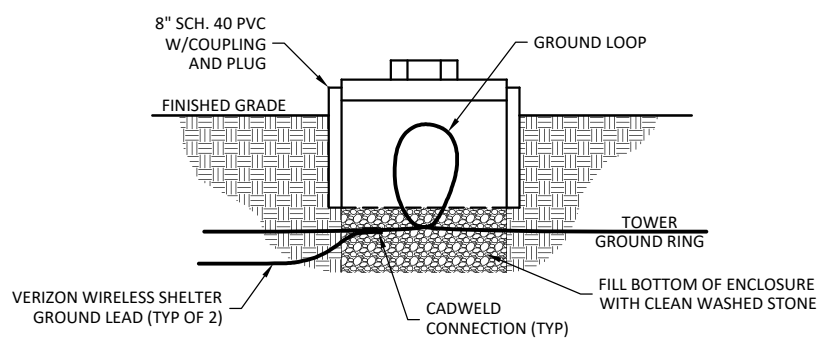
GROUND ROD DETAIL 5 G-4
SCALE: N.T.S. (TYP. FOR CONTRACTOR AND VZW GC)
NOTE: 10'-0" MIN. SPACING BETWEEN RODS



GUY ANCHOR GROUNDING DETAIL 8 G-4
SCALE: N.T.S.



FENCE GROUNDING DETAIL 3 G-4
SCALE: N.T.S.



INSPECTION SLEEVE DETAIL 6 G-4
SCALE: N.T.S.



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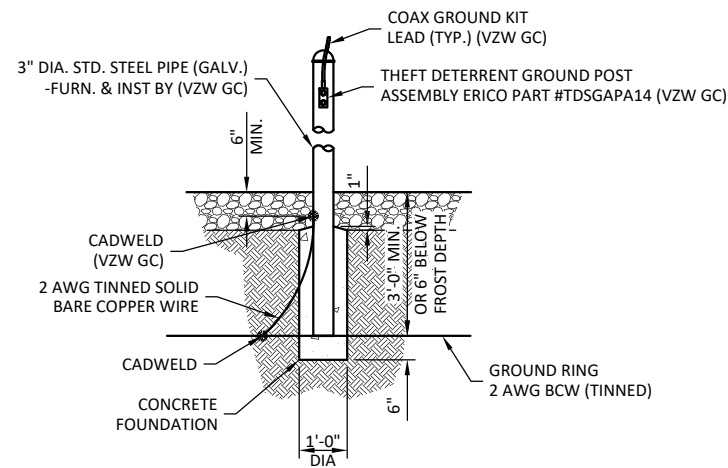
DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
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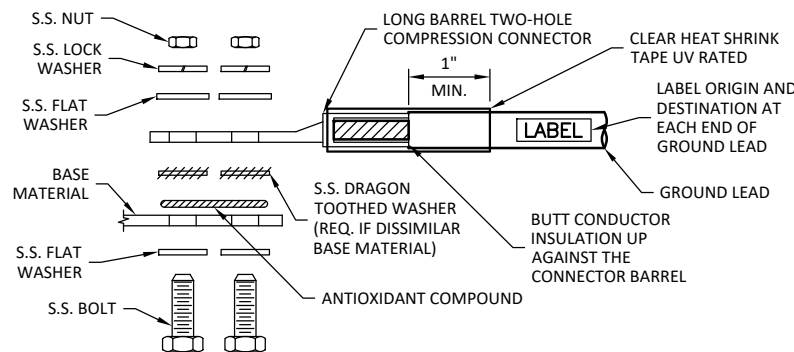
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GROUNDING DETAILS

SHEET NUMBER:
G-4



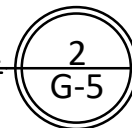
**THEFT DETERRENT POST MOUNT
GROUND DETAIL (CEPSG)**

SCALE: N.T.S. (BY VZW GC)

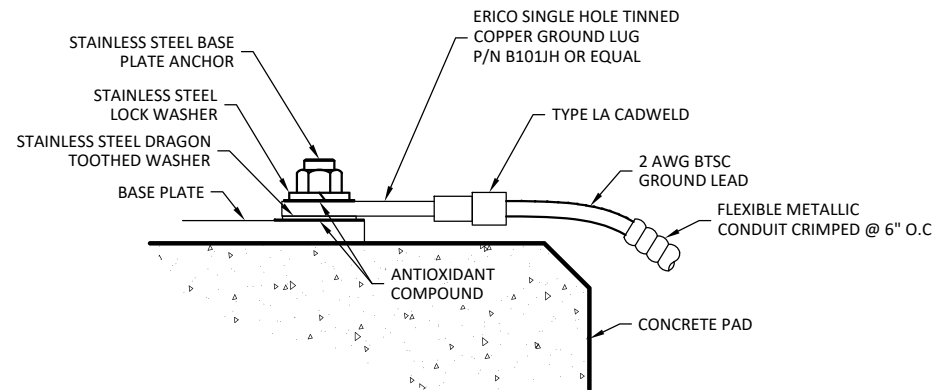


GROUND LUG INSTALLATION DETAIL

SCALE: N.T.S.

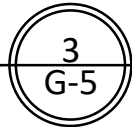


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE WHEN BONDED TO A GROUND BAR OR STEEL OBJECT.
4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
5. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AN ABRASIVE STYLE TOOL.
6. NO-OX-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
7. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
8. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

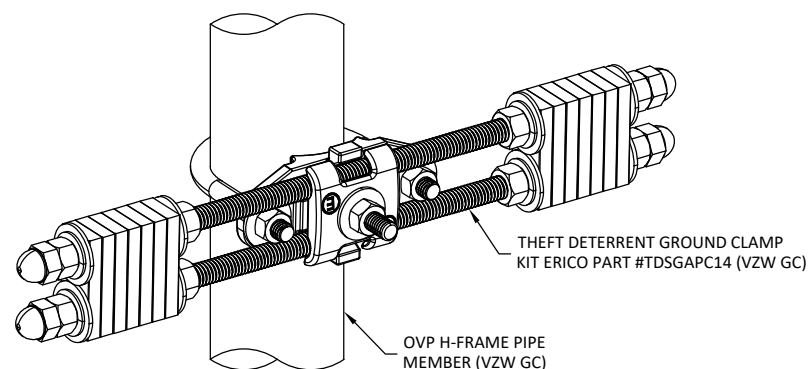


GROUND LUG TO BASEPLATE INSTALLATION DETAIL

SCALE: N.T.S.

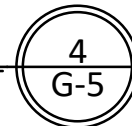


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. INSTALL ANCHOR LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
4. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AN ABRASIVE STYLE TOOL.
5. NO-OX-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
6. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
7. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.



OVP GROUND ASSEMBLY (OGA)

SCALE: N.T.S. (BY VZW GC)



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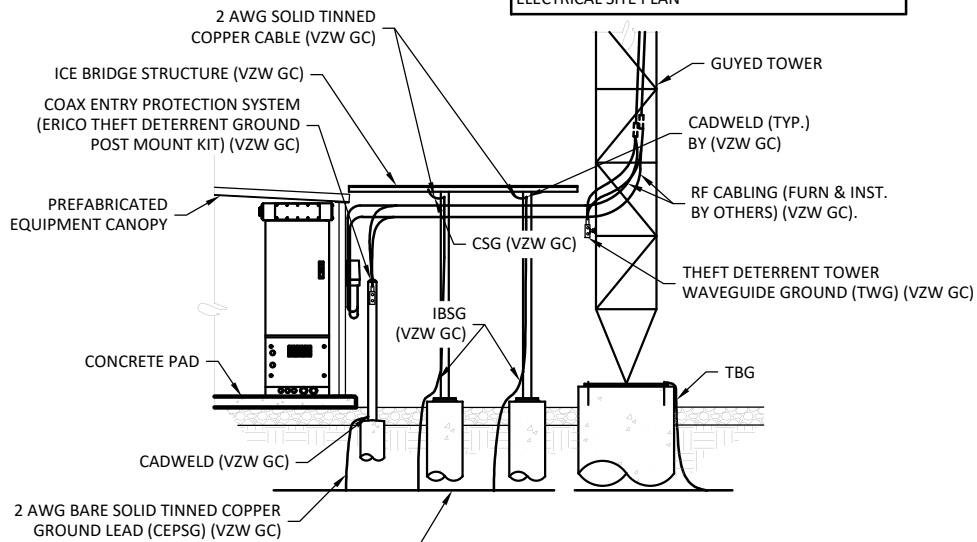
SHEET TITLE:

**GROUNDING
DETAILS**

SHEET NUMBER:

G-5

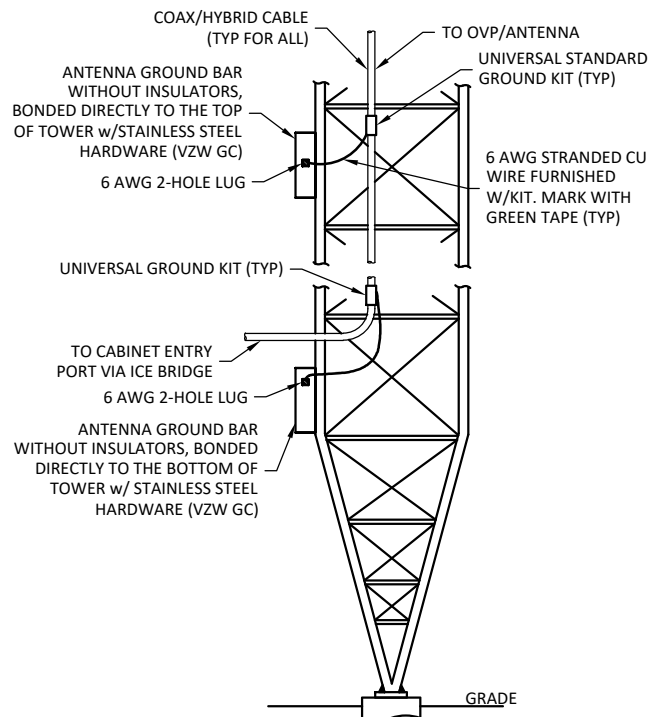
NOTE:
GROUNDING RING DOES NOT PENETRATE TOWER
OR ICE BRIDGE FOUNDATIONS REFER TO
ELECTRICAL SITE PLAN



INTERIOR/EXTERIOR GROUNDING DETAIL

SCALE: N.T.S.

1
G-6



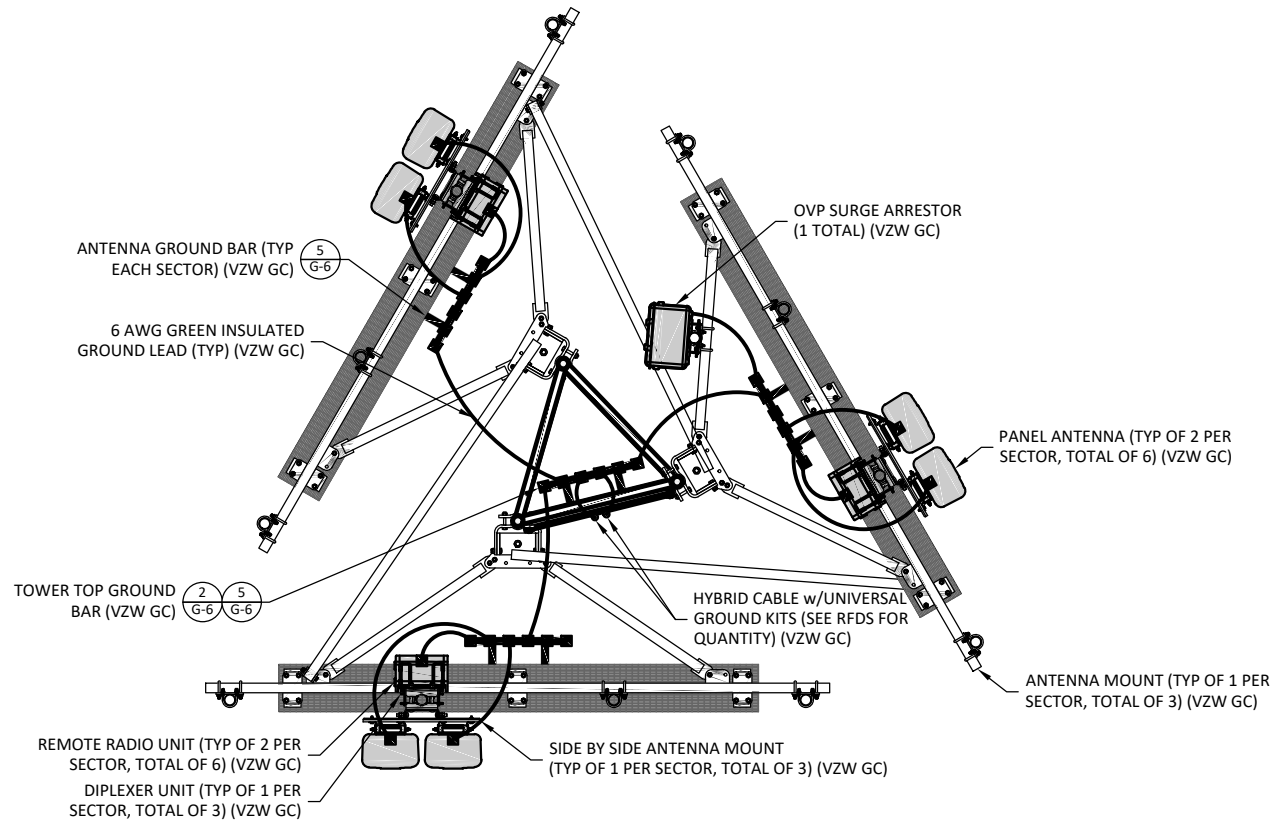
NOTE:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED (VZW GC)
2. FURNISH & INSTALL INTERMEDIATE GROUND BARS IF DISTANCE EXCEEDS 100' BETWEEN GROUND BARS (VZW GC)
3. INSTALL UNIVERSAL GROUND KITS AT ALL GROUND BAR LOCATIONS. (VZW GC)

ANTENNA CABLE GROUNDING INSTALLATION DETAIL

SCALE: N.T.S.

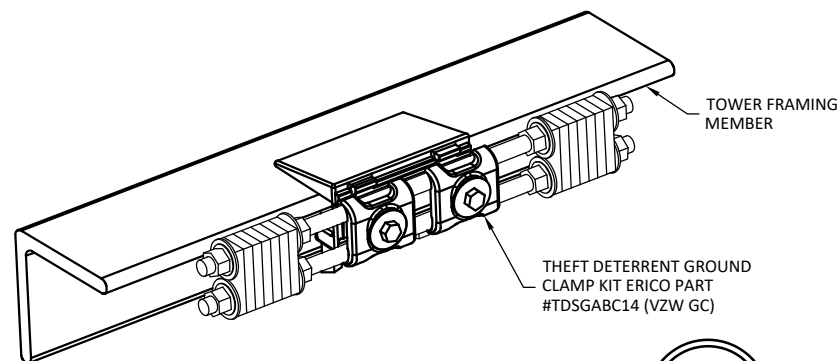
2
G-6



ANTENNA LEVEL GROUNDING PLAN

SCALE: N.T.S.

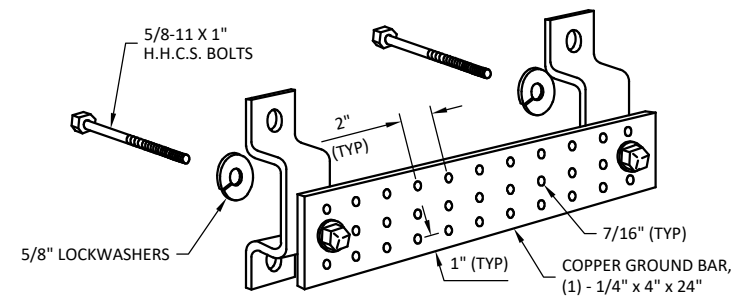
3
G-6



TOWER BOTTOM GROUND ASSEMBLY

SCALE: N.T.S. (BY VZW GC)

4
G-6



ANTENNA, TOWER TOP & INTERMEDIATE GROUND BAR

SCALE: N.T.S. (BY VZW GC)

5
G-6



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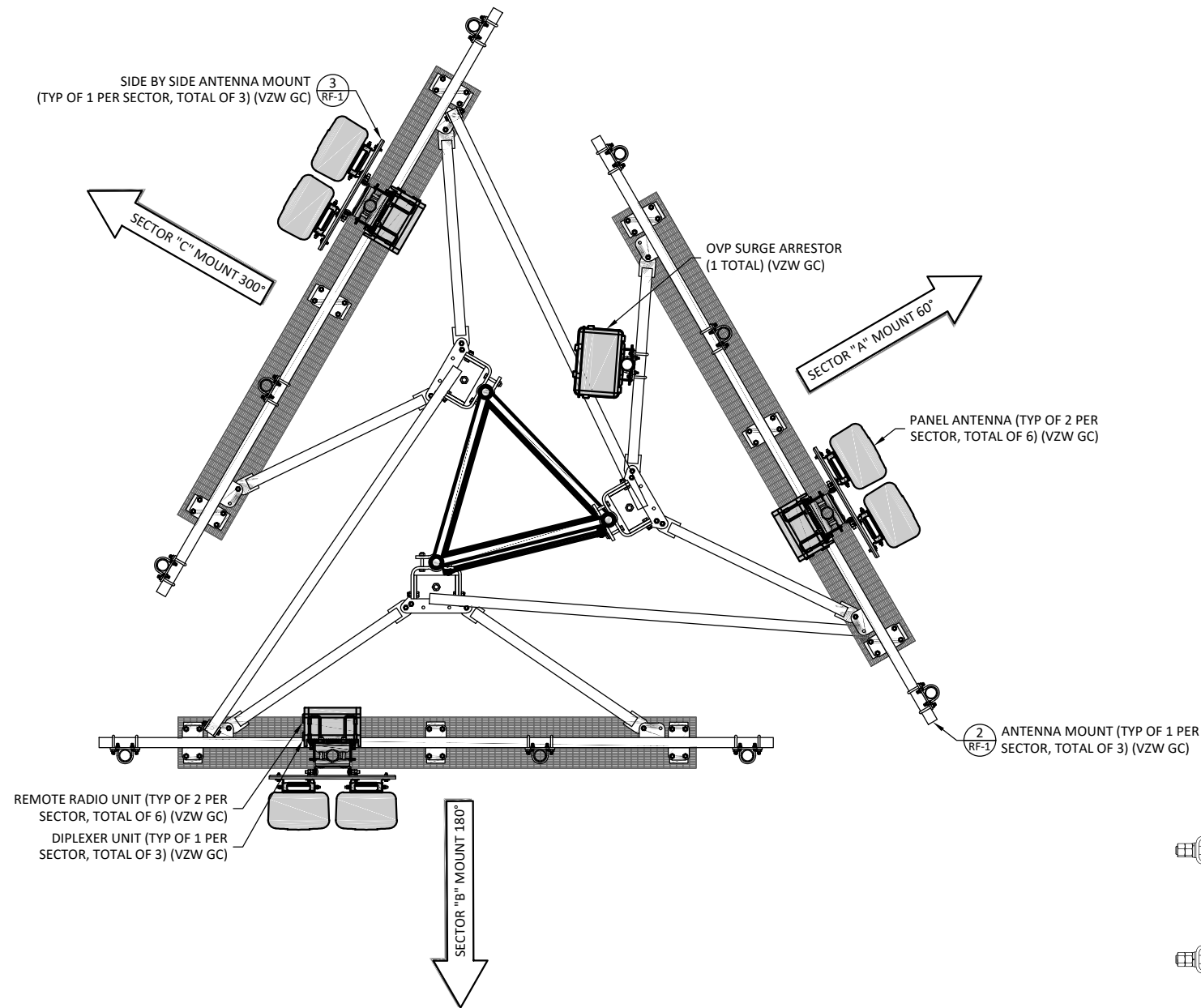
POD NUMBER: 21-118223
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SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

G-6

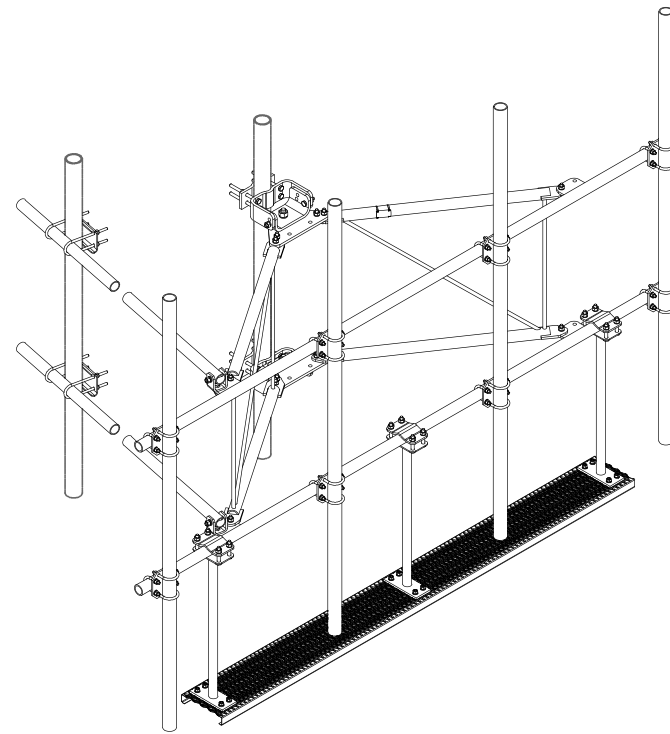


ANTENNA PLAN LEGEND				
SECTOR	ANTENNA POSITION	TECHNOLOGY	AZIMUTH	ANTENNA RAD CENTER
ALPHA	C	700/850/PCS	60	290'
ALPHA	C	700/850/AWS	60	290'
BETA	G	700/850/PCS	180	290'
BETA	G	700/850/AWS	180	290'
GAMMA	K	700/850/PCS	300	290'
GAMMA	K	700/850/AWS	300	290'

NOTE: ANTENNA INSTALLER SHALL UTILIZE VERIZON WIRELESS RFDS FOR FINAL CONFIGURATION. SEE VERIZON WIRELESS CONSTRUCTION MANAGER.

ANTENNA PLAN
SCALE: N.T.S. (BY VZW GC)

1
RF-1

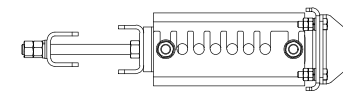


MANUFACTURER: SABRE
MODEL: C10857007C-4108-278W (TYP. OF 3)
WEIGHT: 929 LBS EACH (TOTAL 2,787 LBS)

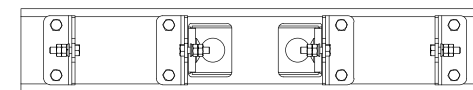
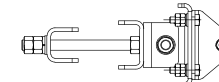
ANTENNA MOUNTING STRUCTURE DETAIL

SCALE: N.T.S. (BY VZW GC)

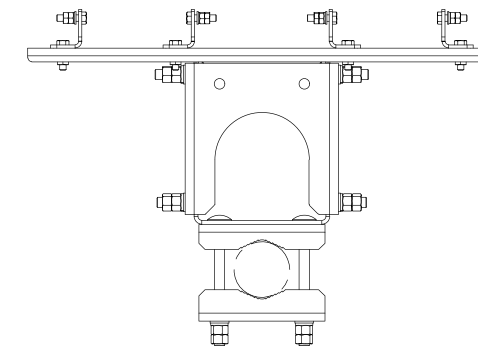
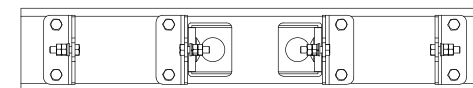
2
RF-1



SIDE VIEW



REAR VIEW



TOP VIEW

BSAMNT-SBS-2-2

SIDE BY SIDE ANTENNA MOUNT DETAIL

SCALE: N.T.S. (BY VZW GC)

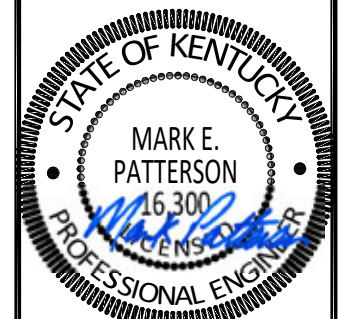
3
RF-1

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

Diamond
Communications LLC

820 MORRIS TURNPIKE - STE 104
SHORT HILLS, NJ 07078

02/22/2022



EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
1	3.1.18	UPDATED RFDS
2	1.31.20	UPDATED STANDARDS
3	1.21.22	TOWER REPLACEMENT
4	2.21.22	CORRECTED COORDS

SITE INFORMATION:
FULTON, KY (CRUTCHFIELD)
1311 CLINTON MOSCOW RD
FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

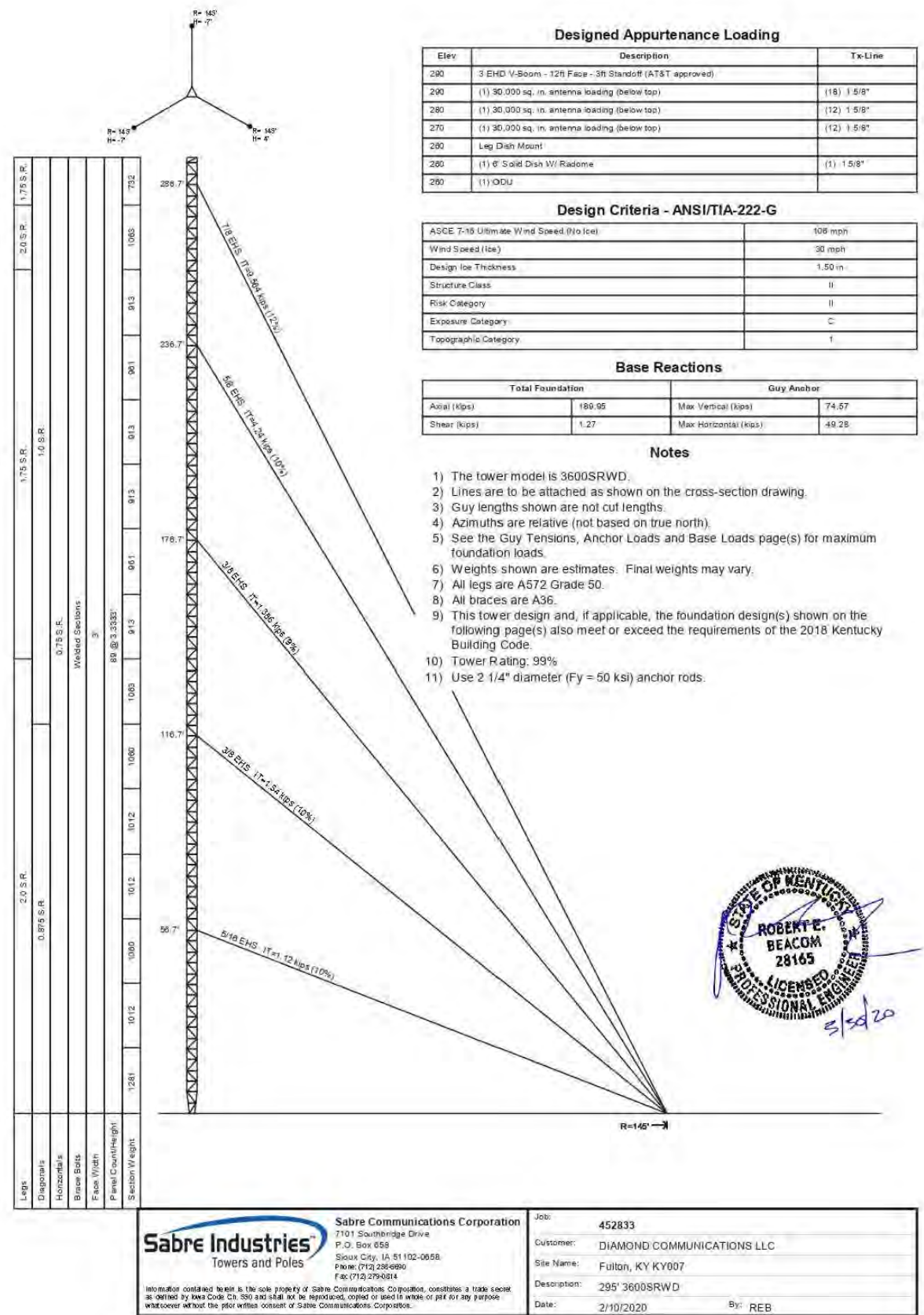
SHEET TITLE:

ANTENNA PLAN AND DETAILS

REFERENCE ONLY

SHEET NUMBER:

RF-1



POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

Diamond
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POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:
TOWER DETAILS

REFERENCE ONLY
SHEET NUMBER:
TW-1

Sabre Industries Towers and Poles

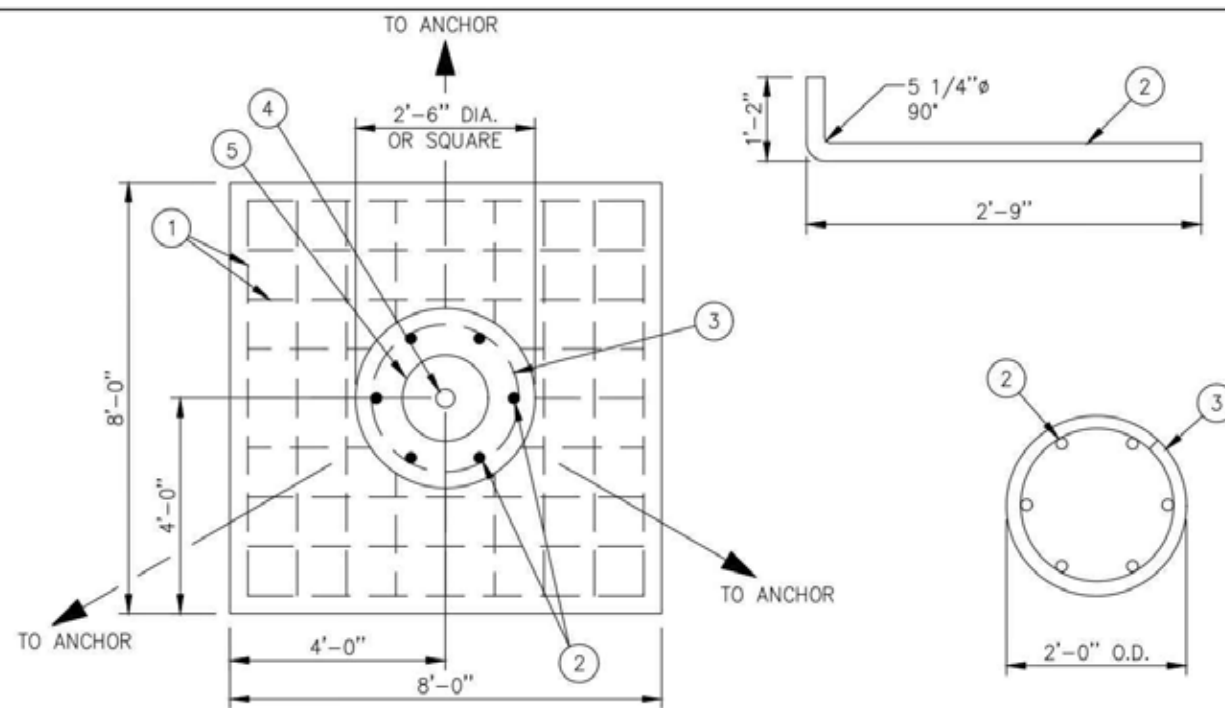
Sabre Communications Corporation
7101 Southridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone: (712) 295-6990
Fax: (712) 279-0314

Job: 452833
Customer: DIAMOND COMMUNICATIONS LLC
Site Name: Fulton, KY KY007
Description: 295' 3600SRWD
Date: 2/10/2020 By: REB

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TOWER ELEVATION
SCALE: N.T.S.

1
TW-1



REINFORCING STEEL SCHEDULE							
ITEM	LOCATION	NO. REQ'D.	BAR SPC'G.	SIZE	CUT LENGTH	TOTAL LENGTH	TOTAL WT.
1.	PAD BOTTOM REINFORCING	18	EQUALLY SPACED AS SHOWN	#7	7'-6"	135'-0"	276 LBS.
2.	PIER VERTICAL REINFORCING	6	60" APART	#7	3'-11"	23'-6"	48 LBS.
3.	PIER TIES	3	12" C-C	#3	7'-6"	22'-6"	8 LBS.
TOTAL REBAR WT.							332 LBS.

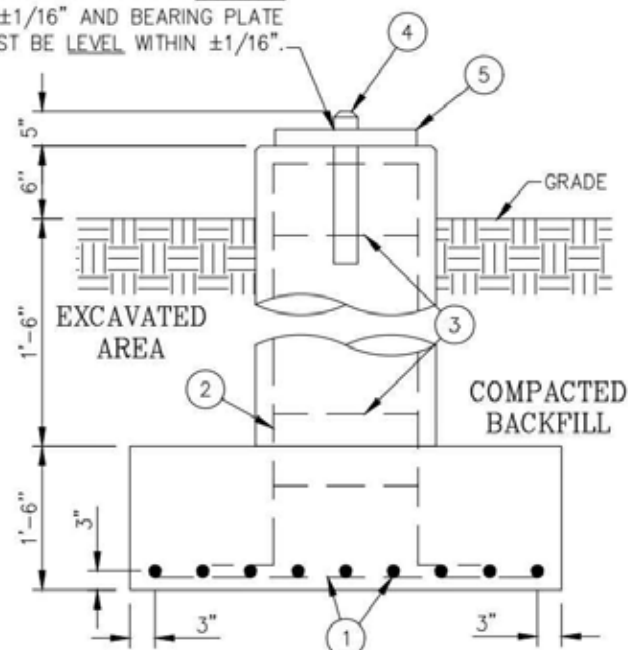
CONCRETE REQUIRED		
LOCATION	W/ROUND PIERS	W/SQUARE PIERS
PAD	3.6 CU. YDS.	3.6 CU. YDS.
PIER	0.4 CU. YDS.	0.5 CU. YDS.
TOTAL CONCRETE	4.0 CU. YDS.	4.1 CU. YDS.

EMBEDMENT STEEL REQUIRED				
ITEM	PART NO.	NO. REQ'D.	DESCRIPTION	TOTAL WT.
4.	C30901001	1	BASE BEARING PIN	12 LBS.
5.	C30902001	1	BASE BEARING PLATE	167 LBS.
TOTAL STEEL WT.				179 LBS.

PIER TIE DETAIL

PLAN VIEW

BEARING PIN MUST BE VERTICAL WITHIN $\pm 1/16"$ AND BEARING PLATE MUST BE LEVEL WITHIN $\pm 1/16"$.



ELEVATION VIEW

GENERAL NOTES

1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11.
2. REBAR TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
3. ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
4. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 3/4".
5. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY: POWER OF DESIGN GROUP, LLC., PROJECT NO.: 16-9169, DATED: SEPTEMBER 14, 2016.
6. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING FACTORED REACTIONS:
FACTORED AXIAL LOAD (KIPS) = 189.95
FACTORED SHEAR (KIPS) = 1.27
7. SEE THE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS, IF SPECIFIED.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION



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GUYED TOWER FOUNDATION			
SITE: FULTON, KY #KY007			
CUSTOMER: DIAMOND COMMUNICATIONS LLC			
JOB NO. 457295	SIZE B	DRAWING NO. 457295-F1	REV 0
DATE 4/8/20	DRAWN BY AWB	CHECKED BY KTW	SCALE None
PAGE 1 OF 1			

CONSTRUCTION DRAWINGS

REV.	DATE	DESCRIPTION
0	2.16.17	ISSUED AS FINAL
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FULTON, KY 42041
FULTON COUNTY

DIAMOND COMMUNICATIONS SITE NUMBER:
KY007

VERIZON WIRELESS SITE NAME:
EV CRUTCHFIELD

POD NUMBER: 21-118223
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

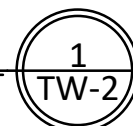
TOWER DETAILS

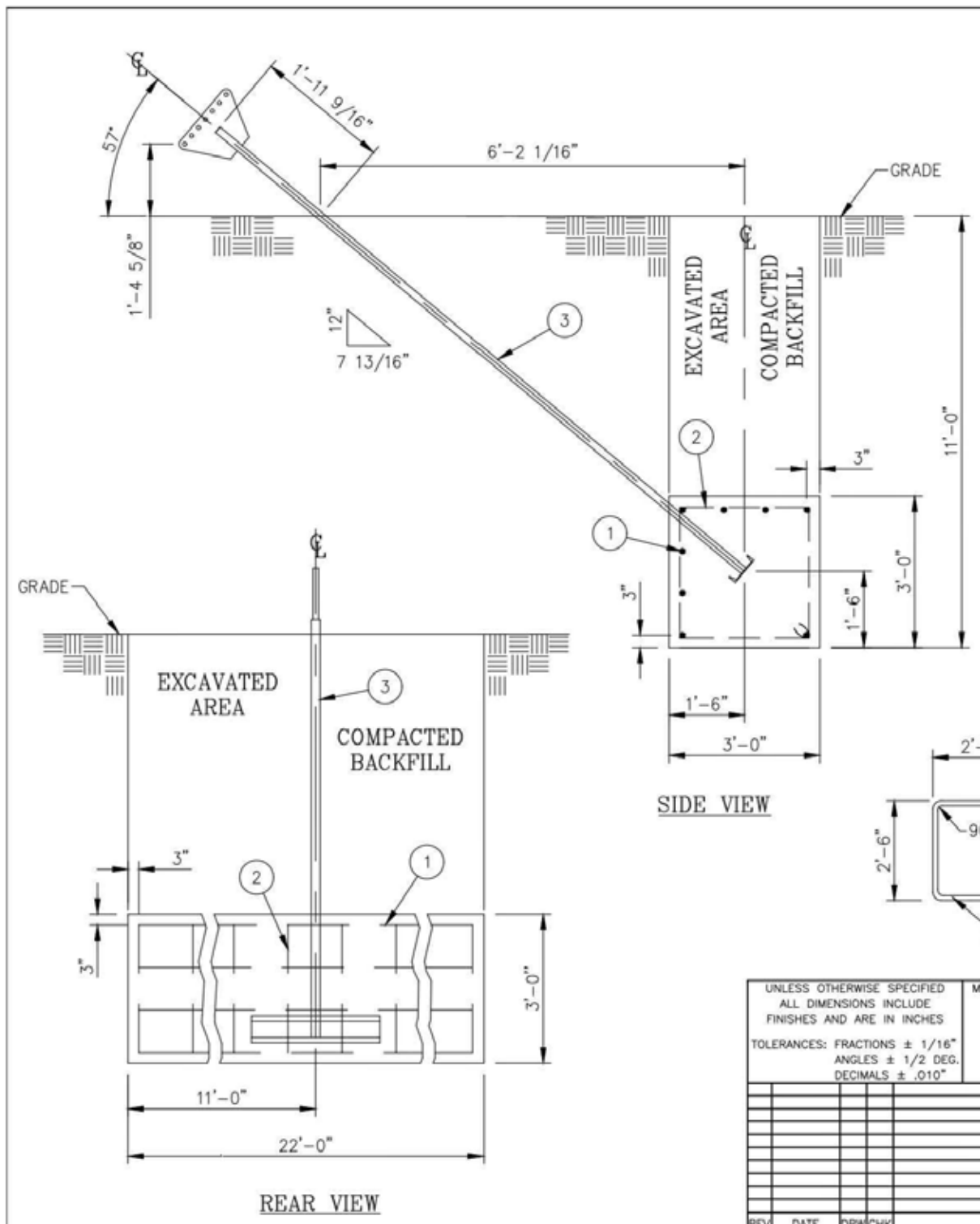
REFERENCE ONLY

SHEET NUMBER:

TW-2

FOUNDATION
SCALE: N.T.S.





REINFORCING STEEL SCHEDULE PER ANCHOR							
ITEM	LOCATION	NO. REQ'D.	BAR SPACING	SIZE	CUT LENGTH	TOTAL LENGTH	TOTAL WT.
1.	HORIZONTAL REINFORCING	8	EQUALLY SPACED AS SHOWN	#7	21'-6"	172'-0"	352 LBS.
2.	BENT REINFORCING	23	EQUALLY SPACED AS SHOWN	#4	10'-6"	241'-6"	161 LBS.
						TOTAL REBAR WT.	513 LBS.

CONCRETE REQUIRED PER ANCHOR	
TOTAL CONCRETE	7.3 CU. YDS.

EMBEDMENT STEEL REQUIRED PER ANCHOR				
ITEM	QTY.	PART NO.	DESCRIPTION	TOTAL WT.
3.	1	C30129046	WELDMENT, ANCHOR SHAFT, 2 1/4" DIA X 13'-10 1/2", 1 1/4" PL.	343 LBS.

GENERAL NOTES

1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11.
2. REBAR TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
3. ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
4. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY: POWER OF DESIGN GROUP, LLC., PROJECT NO.: 16-9169, DATED: SEPTEMBER 14, 2016.
5. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING FACTORED REACTIONS:
UPLIFT (KIPS) = 74.57
HORIZONTAL FORCE (KIPS) = 49.28
6. WHEN THE SOIL ELECTRICAL RESISTIVITY IS LESS THAN 50 OHM-M AND/OR THE MEASURED SOIL pH VALUES ARE BELOW 3 OR GREATER THAN 9, ADDITIONAL CORROSION CONTROL IS REQUIRED. SEE THE GEOTECHNICAL REPORT FOR THESE PARAMETERS AND COMPACTION REQUIREMENTS, IF SPECIFIED.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION

Sabre Industries
Towers and Poles

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CONCRETE ANCHOR			
SITE: FULTON, KY #KY007			
CUSTOMER: DIAMOND COMMUNICATIONS LLC			
JOB NO. 457295	SIZE B	DRAWING NO. 457295-A1	REV 0
DATE 4/8/20	DRAWN BY AWB	CHECKED BY KTW	SCALE None
		SCALE None	PAGE 1 OF 1

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CHECKED BY: MEP
DATE: 01.17.17

SHEET TITLE:

TOWER DETAILS

REFERENCE ONLY

SHEET NUMBER:
TW-3