



312 WEST COLFAX AVENUE  
SOUTH BEND, IN46601

**NEW 115' MONOPOLE TOWER  
w/ 5' LIGHTNING ROD  
TOTAL TOWER HEIGHT 120'**

# HUNTWICK REAGAN PKWY HV1624

1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231  
HENDRICKS COUNTY

TENANT: LEGAL BUSINESS ENTITY d/b/a VERIZON WIRELESS  
"GN HUNTWICK REAGAN PKWY"  
BUILDING #:

DIRECTIONS FROM 250 E 96TH STREET, SUITE 300, INDIANAPOLIS, IN 46240: DEPART AND HEAD TOWARD PARKWOOD CROSSING (190 FT), TURN RIGHT (75 FT), TURN RIGHT (315 FT), TURN RIGHT, THEN IMMEDIATELY TURN RIGHT ONTO E 96TH ST (0.4 MI), TURN RIGHT ONTO N MERIDIAN ST (0.3 MI), TAKE THE RAMP ON THE RIGHT AND FOLLOW SIGNS FOR I-465 WEST (5.6 MI), BEAR RIGHT ONTO I-465 S TOWARD INTL. / I-465 SOUTH (10.9 MI), AT EXIT 14, HEAD ON THE RAMP RIGHT AND FOLLOW SIGNS FOR 10TH ST (0.4 MI), TURN RIGHT ONTO W 10TH ST (3.0 MI), TURN LEFT ONTO N RACEWAY RD (1.0 MI), ROAD NAME CHANGES TO S RACEWAY RD (46 FT), KEEP STRAIGHT TO GET ONTO S RACEWAY RD (1.0 MI), AT THE ROUNDABOUT, TAKE THE 1ST EXIT FOR E COUNTY ROAD 100 S (0.5 MI), TURN LEFT ONTO S COUNTY ROAD 1050 E (0.3 MI), ARRIVE AT S COUNTY ROAD 1050 E ON THE LEFT. THE LAST INTERSECTION BEFORE YOUR DESTINATION IS E COUNTY ROAD 100 S. IF YOU REACH FORTNER DR, YOU'VE GONE TOO FAR.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

DRAWING NOTICE:

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY: MJB  
CHECKED BY: DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

ENGINEER'S STAMP:

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:  
**HUNTWICK REAGAN PKWY**  
ADDRESS:  
1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231

COUNTY:  
**HENDRICKS**

LATITUDE:  
**39° 44' 39.40" N**

LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. T-1  
REVISION: A

**TOWER OWNER SITE**  
HUNTWICK REAGAN PKWY  
SITE #: HV1624

**VERIZON WIRELESS SITE**  
GN HUNTWICK REAGAN PARKWAY  
PROJECT#: 16857608  
MARKET ID: TBD  
MDG#: 5000938622

**SITE ADDRESS**  
1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231  
HENDRICKS COUNTY  
E911 ADDRESS: TBD

**TOWER OWNER**  
HORVATH COMMUNICATIONS  
2307 EDISON RD  
SOUTH BEND, IN 46615  
CONTACT: ERIN HORVATH  
PHONE: 574-276-3380  
EMAIL: EHORVATH@HORVATH  
COMMUNICATIONS.COM

**PROPERTY OWNER**  
BLUE GRASS FARMS INC.  
1915 W 53RD S  
ANDERSON, IN 46013  
CONTACT: BRENT SCHALK  
PHONE: 765-208-0627  
E-MAIL: SCHALK@BLUEGRASSFARMS.NET

**GENERAL INFORMATION**  
LATITUDE -39° 44' 39.40" N  
LONGITUDE -86° 20' 07.56" W  
1983 (NAD83)  
ELEVATION -795' AMSL  
1988 (NAVD88)

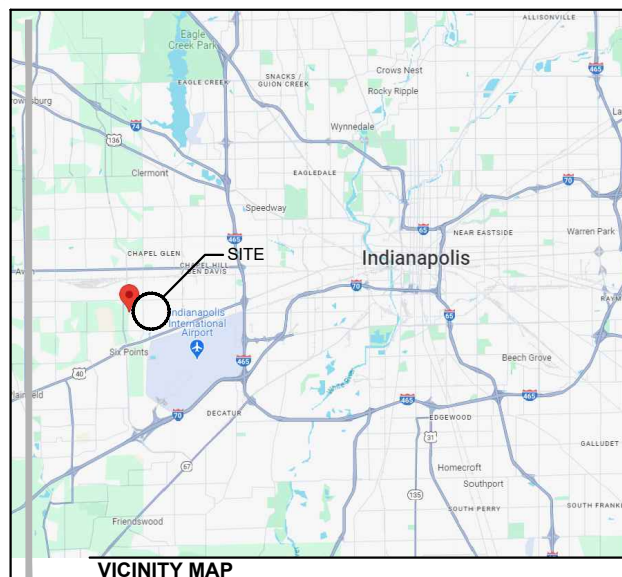
**TOWER OWNER LEASE AREA**  
40'-0" x 100'-0"  
(4000 SF)

**VERIZON WIRELESS LEASE AREA**  
16'-0" x 32'-0"  
(512 SF)

**PROJECT TOTAL DISTURBED AREA**  
COMPOUND: (4000 SF) = (0.09182736 ACRE)  
ACCESS DRIVE: (00000 SF) = (0.00 ACRE)  
GROSS AREA: (4000 SF) = (0.09182736 ACRE)

ALL CONSTRUCTION ITEMS ARE TO BE COMPLETED BY THE TOWER OWNER GENERAL CONTRACTOR UNLESS NOTED AS (VZV GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR

PROJECT SUMMARY



**PROJECT DESCRIPTION:**  
NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZV GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS, GENERALLY DESCRIBED BELOW:

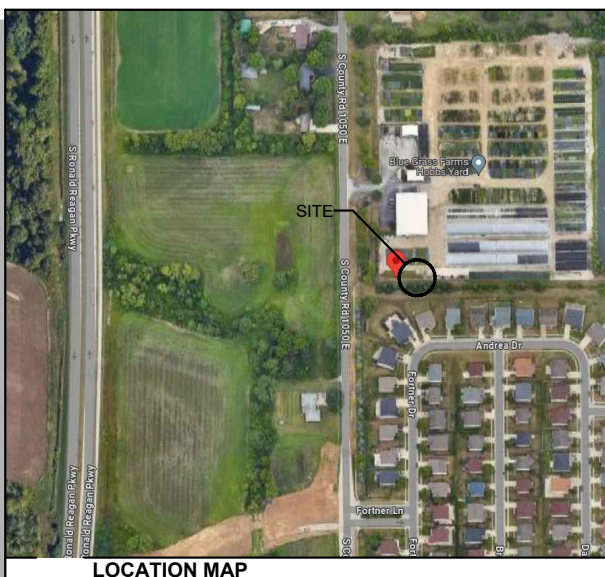
**TOWER OWNER SCOPE:**

- INSTALL A NEW 115' TYPE TOWER w/ 5' LIGHTNING ROD (TOTAL 120')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 40' X 100' FENCED GRAVEL COMPOUND
- INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE UTILITY H-FRAME
- INSTALL A NEW GRAVEL ACCESS DRIVE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZV SUBSURFACE GROUNDING SYSTEM
- INSTALL A NEW VZV CONCRETE EQUIPMENT AND GENERATOR PADS
- INSTALL VZV ICE BRIDGE AND FOUNDATIONS
- INSTALL VZV EQUIPMENT H-FRAME AND FOUNDATIONS
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZV ILC STUB-UP LOCATION TO THE GENERATOR STUB-UP AT VZV GENERATOR PAD
- INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH INTEGRAL (3) 1-1/4" INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VZV EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 24"X36" HAND HOLE OUTSIDE COMPOUND THEN TO NEW "VERIZON WIRELESS ONLY" 24"X36" HAND HOLE AT R.O.W.
- 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 (VZV GC):**

- INSTALL VZV PREFABRICATED CANOPY AND FOUNDATIONS
- INSTALL VZV ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZV ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZV EQUIPMENT & FACILITIES
- INSTALL VZV ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZV ILC ENCLOSURE
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- INSTALL NEW CONDUITS AND CIRCUITS FROM VZV ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZV EQUIPMENT PAD
- INSTALL VZV GENERATOR CIRCUITS FROM VZV ILC & EQUIPMENT ENCLOSURES TO VZV GENERATOR
- INSTALL NEW OUTDOOR OVPS AND CABLING ON VERIZON EQUIPMENT H-FRAME

PROJECT DESCRIPTION



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 2014 INDIANA BUILDING CODE (IBC 2012)  
TIA/EIA-222 - REVISION G  
STRUCTURAL CODE  
MECHANICAL CODE 2014 INDIANA MECHANICAL CODE (IMC 2012)  
PLUMBING CODE 2012 INDIANA PLUMBING CODE (IPC 2006)  
ELECTRICAL CODE 2008 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70  
FIRE/LIFE SAFETY CODE 2014 INDIANA FIRE CODE (2012 IFC)  
ENERGY CODE 2010 INDIANA ENERGY CODE ASHRAE 90.1-200 (COMMERCIAL)  
GAS CODE 2014 INDIANA FUEL GAS CODE (IFGC 2012)

**ACCESSIBILITY REQUIREMENTS:**  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2012 IBC BUILDING CODE.

APPLICABLE CODES

**SURVEYOR**  
LANDTECH  
STREET ADDRESS  
CITY, ST ZIP CODE  
PHONE: 000-000-0000  
FAX: 000-000-0000

**ARCHITECTURAL**  
TELECAD WIRELESS  
1961 NORTHPOINT BLVD  
HIXSON, TN 37343  
CONTACT: DAVID STAMPE  
PHONE: 423-843-9500  
EMAIL: david.stampe@TeleCADeng.com

**ELECTRICAL**  
IPL  
ADDRESS: STREET ADDRESS  
CITY, ST ZIP CODE  
CONTACT: NAME  
PHONE: 317-261-8111  
EMAIL: name@powercompany.com

ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.

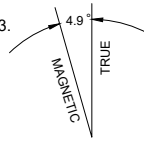
CONSULTANT TEAM



SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
R-1	SURVEY PLAN REVISION LOG
<b>CIVIL</b>	
C-0	ENVIRONMENTAL EVALUATION "NOTICE TO CONTRACTOR" (REFERENCE ONLY)
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/PLATFORM DISTANCE 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
<b>SITE DETAILS</b>	
D-1	FENCE DETAILS AND NOTES
D-2	SITE DETAILS
D-3	EQUIPMENT PAD & CANOPY ELEVATIONS
D-4	VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)
D-5	TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)
L-1	LANDSCAPE PLAN, DETAILS AND NOTES
<b>STRUCTURAL</b>	
S-1	EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES
S-2	ICE BRIDGE PLAN AND DETAILS
S-3	FOUNDATION PLAN AND DETAILS
<b>TOWER ELEVATION</b>	
TE-1	TOWER ELEVATION
<b>ELECTRICAL</b>	
E-1	SITE UTILITY PLAN
E-2	PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS
E-3	EQUIPMENT PAD UTILITY PLAN & EQUIPMENT PAD TRENCH SECTIONS
E-4	OVP & INTEGRATED LOAD CENTER H-FRAME ELEVATIONS AND DETAILS
E-5	ELECTRICAL DETAILS
E-6	EQUIPMENT CABINET ELEVATIONS
E-7	EQUIPMENT PAD LIGHTING PLAN
<b>GROUNDING</b>	
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
<b>REFERENCE DRAWINGS</b>	
RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
ER-1	EMERGENCY RESPONSE TIER II SITE MAP (REFERENCE ONLY)
ER-2	EMERGENCY RESPONSE TIER II VERIZON WIRELESS EQUIPMENT PLAN (REFERENCE ONLY)
<b>TOWER (BY OTHERS)</b>	
TW-1	TOWER DETAILS (REFERENCE ONLY)

**LATITUDE & LONGITUDE**

LATITUDE AND LONGITUDE OF SITE ARE BASED ON NAD 83.  
 LATITUDE: 39°44'39.40"N 39.744277°  
 LONGITUDE: 86°20'07.56"W -86.335434°  
 GROUND ELEVATION AT TOWER BASE: 795' AMSL



**SITE INFORMATION**

**SITE ADDRESS:**  
 1201 S. COUNTY RD. 1050E  
 INDIANAPOLIS, IN 46231

**PROPERTY OWNER:**  
 BLUE GRASS FARMS INC.  
 1915 W. 53RD S.  
 ANDERSON, IN 46013

**PARCEL ID**

25-1-17-521-200-006

**PARENT PARCEL DESCRIPTION (AS PROVIDED)**

PART OF THE NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 15 NORTH, RANGE 2 EAST, WASHINGTON TOWNSHIP, HENDRICKS COUNTY, INDIANA, MORE FULLY DESCRIBED AS FOLLOWS: COMMENCING AT THE CENTER OF SAID SECTION 17; THENCE ALONG THE APPROXIMATE CENTER LINE OF COUNTY ROAD 1050 EAST AND THE QUARTER SECTION LINE, NORTH 00 DEGREES 03 MINUTES 23 SECONDS WEST 738.24 FEET; THENCE ALONG THE SOUTH DESCRIBED LINE OR THE MICHAEL LEE GIBBS AND DOUGLAS EDGAR GIBBS PROPERTY RECORDED AS INSTRUMENT NUMBER 200500038982, HENDRICKS COUNTY RECORDERS'S OFFICE, SOUTH 89 DEGREES 44 MINUTES 52 SECONDS EAST 880.00 FEET; THENCE SOUTH 00 DEGREES 03 MINUTES 23 SECONDS EAST 738.24 FEET; THENCE ALONG THE NORTH DESCRIBED LINE OF BRENTWOOD PARK, SECTION 6, RECORDED AS INSTRUMENT NUMBER 2005-32329, NORTH 89 DEGREES 44 MINUTES 52 SECONDS WEST 880.00 FEET TO THE POINT OF BEGINNING.

**LEASE AREA DESCRIPTION**

PART OF THE NORTHEAST 1/4 OF SECTION 17, TOWN 15 NORTH, RANGE 2 EAST, WASHINGTON TOWNSHIP, HENDRICKS COUNTY, INDIANA DESCRIBED AS: COMMENCING AT A FOUND REMON MONUMENT AT THE NORTHWEST CORNER OF THE THE NORTHEAST 1/4 OF SAID SECTION; THENCE SOUTH 00°58'06" WEST ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION A DISTANCE OF 1463.54 FEET; THENCE NORTH 87°07'36" EAST A DISTANCE OF 15.01 FEET TO THE EAST RIGHT OF WAY OF S. COUNTY ROAD 1050 E (VARIABLE WIDTH, PUBLIC); THENCE CONTINUING NORTH 87°07'36" EAST A DISTANCE OF 269.82 FEET; THENCE SOUTH 01°28'37" EAST A DISTANCE OF 240.00 FEET; THENCE SOUTH 46°14'34" WEST A DISTANCE OF 70.81 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 89°30'38" WEST A DISTANCE OF 100.00 FEET; THENCE NORTH 00°29'22" WEST A DISTANCE OF 40.00 FEET; THENCE NORTH 89°30'38" EAST A DISTANCE OF 100.00 FEET; THENCE SOUTH 00°29'22" EAST A DISTANCE OF 40.00 FEET TO THE POINT OF BEGINNING. DESCRIBED LEASE CONTAINS 4,000 SQUARE FEET OR 0.092 ACRES.

**ACCESS/UTILITY EASEMENT DESCRIPTION**

AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF UTILITIES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 17, TOWN 15 NORTH, RANGE 2 EAST, WASHINGTON TOWNSHIP, HENDRICKS COUNTY, INDIANA DESCRIBED AS: COMMENCING AT A FOUND REMON MONUMENT AT THE NORTHWEST CORNER OF THE THE NORTHEAST 1/4 OF SAID SECTION; THENCE SOUTH 00°58'06" WEST ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION A DISTANCE OF 1463.54 FEET; THENCE NORTH 87°07'36" EAST A DISTANCE OF 15.01 FEET TO THE EAST RIGHT OF WAY OF S. COUNTY ROAD 1050 E (VARIABLE WIDTH, PUBLIC) AND THE POINT OF BEGINNING; THENCE CONTINUING NORTH 87°07'36" EAST A DISTANCE OF 269.82 FEET; THENCE SOUTH 01°28'37" EAST A DISTANCE OF 240.00 FEET; THENCE SOUTH 46°14'34" WEST A DISTANCE OF 70.81 FEET TO THE SOUTHEAST CORNER OF A LEASE AREA; THENCE NORTH 00°29'22" WEST ALONG THE EAST LINE OF SAID LEASE AREA A DISTANCE OF 22.84 FEET; THENCE NORTH 45°29'19" EAST A DISTANCE OF 43.77 FEET; THENCE NORTH 01°28'37" WEST A DISTANCE OF 214.43 FEET; THENCE SOUTH 87°07'36" WEST A DISTANCE OF 249.99 FEET TO SAID RIGHT OF WAY; THENCE NORTH 00°58'06" WEST ALONG SAID RIGHT OF WAY A DISTANCE OF 20.01 FEET TO THE POINT OF BEGINNING.

**UTILITY EASEMENT DESCRIPTION**

AN EASEMENT FOR INGRESS/EGRESS AND THE INSTALLATION AND MAINTENANCE OF UTILITIES OVER/UNDER AND ACROSS ALL THAT PART OF THE NORTHEAST 1/4 OF SECTION 17, TOWN 15 NORTH, RANGE 2 EAST, WASHINGTON TOWNSHIP, HENDRICKS COUNTY, INDIANA DESCRIBED AS: COMMENCING AT A FOUND REMON MONUMENT AT THE NORTHWEST CORNER OF THE THE NORTHEAST 1/4 OF SAID SECTION; THENCE SOUTH 00°58'06" WEST ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION A DISTANCE OF 1716.85 FEET; THENCE NORTH 89°01'54" EAST A DISTANCE OF 15.00 FEET TO THE EAST RIGHT OF WAY OF S. COUNTY ROAD 1050 E (VARIABLE WIDTH, PUBLIC) AND THE POINT OF BEGINNING; THENCE NORTH 49°59'19" EAST A DISTANCE OF 25.98 FEET; THENCE NORTH 89°30'38" EAST A DISTANCE OF 100.00 FEET TO THE NORTHWEST CORNER OF A LEASE AREA; THENCE SOUTH 00°29'22" EAST ALONG THE WEST LINE OF SAID LEASE AREA A DISTANCE OF 10.00 FEET; THENCE SOUTH 89°30'38" WEST A DISTANCE OF 97.83 FEET; THENCE SOUTH 51°22'03" WEST A DISTANCE OF 28.13 FEET TO SAID RIGHT OF WAY; THENCE NORTH 00°58'06" WEST ALONG SAID RIGHT OF WAY A DISTANCE OF 10.84 FEET TO THE POINT OF BEGINNING.

**GENERAL NOTES**

- NO PROPOSED MUNICIPAL SEWER OR WATER UTILITIES ARE REQUIRED FOR THIS SITE.
- THERE WILL BE NO CHANGE IN DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
- NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
- NO HAZARDOUS MATERIALS WILL BE USED, PROCESSED OR STORED AT THE SITE.
- TOWER LIGHTING SHALL CONFORM TO FAA STANDARDS AS REQUIRED.
- ALL WORK SHALL CONFORM TO FAA & FCC REGULATIONS.

**ZONING INFORMATION**

SUBJECT SITE ZONING: AGRICULTURAL

ADJACENT ZONING:  
 NORTH: RESIDENTIAL  
 SOUTH: RESIDENTIAL  
 EAST: RESIDENTIAL  
 WEST: RESIDENTIAL

TOWER SETBACKS:  
 FRONT: MAX TOWER HEIGHT OF 120'  
 REAR: MAX TOWER HEIGHT OF 120'  
 SIDES: MAX TOWER HEIGHT OF 120'

**CERTIFICATION :**

I MATTHEW T. MOKANYK CERTIFY THAT I HAVE SURVEYED AND MARKED THE PROPOSED TELECOM INSTALLATION AND EXISTING FEATURES AND THAT THIS MAP IS A TRUE REPRESENTATION THEREOF.

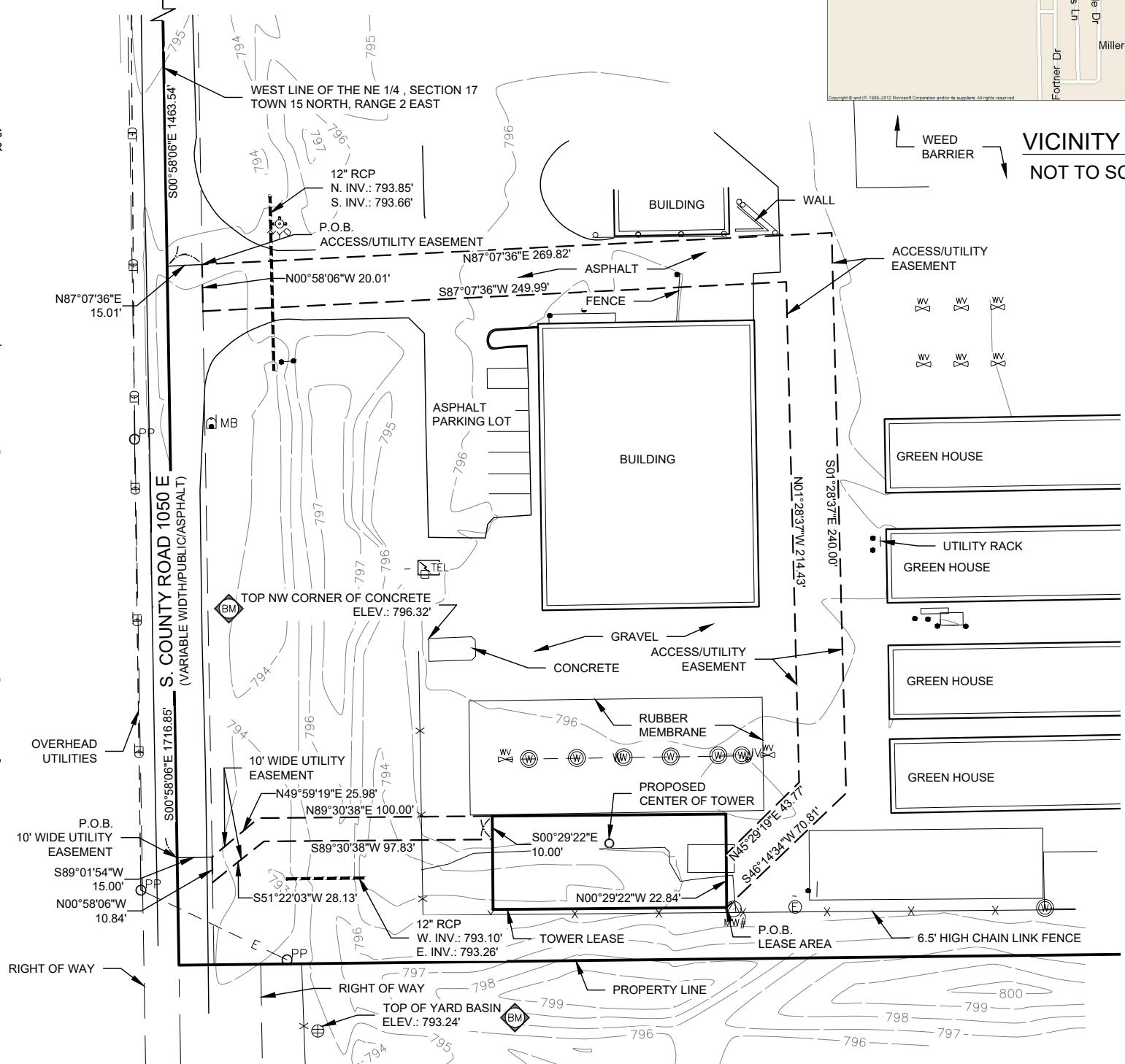
Matthew T. Mokanyk, P.S., P.E.  
 Indiana P.S. No. LS20100015  
 Date: 12/22/23

BEARINGS ARE BASED ON INDIANA STATE PLANE COORDINATES, WEST ZONE. NAD 83.

**FLOOD NOTE**

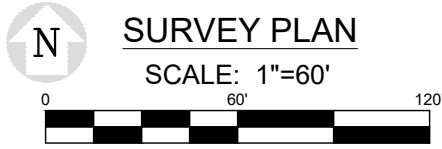
By graphic plotting only, this property is in Zone(s) "X" of the Flood Insurance Rate Map, Community Panel No. 18063C0277D, which bears an effective date of 09/25/2009 and is NOT in a Special Flood Hazard Area.

P.O.C.  
 FOUND REMON MONUMENT  
 LEASE AREA &  
 ACCESS/UTILITY EASEMENT  
 NORTHWEST CORNER OF THE NORTHEAST 1/4, SECTION 17  
 TOWN 15 NORTH, RANGE 2 EAST



**VICINITY MAP**  
 NOT TO SCALE

- LEGEND**
- IRON FOUND
  - IRON SET
  - P.K. NAIL FOUND
  - P.K. NAIL SET
  - ⊙ GPS MONUMENT
  - ⊙ MONUMENT BOX FOUND
  - ⊙ MONUMENT FOUND
  - ⊙ MONUMENT SET
  - (M) MEASURED
  - STS STORM MANHOLE
  - CATCH BASIN
  - SQUARE CATCH BASIN
  - SANS SANITARY MANHOLE
  - SANITARY CLEAN-OUT
  - MONITOR WELL
  - TELCO. MANHOLE
  - E-PP POWER POLE
  - GUY GUY
  - LIGHT POLE
  - ELECTRIC TRANSFORMER
  - ELECTRIC METER
  - ELECTRIC HANDHOLE
  - WATER VALVE
  - HYDRANT
  - GAS METER
  - GAS MARKER
  - GAS VALVE
  - TELEPHONE PEDESTAL
  - SIGN POST
  - FENCE LINE
  - BENCHMARK
- ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.



**SURVEY PLAN**

SCALE: 1"=60'

**TITLE RESOLUTION**  
 TITLE NOT PROVIDED



LANDTECH PROJECT NUMBER: 23309018

REV.	DATE	DESCRIPTION	REQ. BY	BY
0	12/22/23	PRELIMINARY DRAWINGS	MB	RJH
1	02/09/24	LEASE AREA MOVE AND ADDED UTILITY EASEMENT	MB	RJH
2	02/19/24	40'x100'	MB	RJH
3	03/04/24	TOWER LOCATION	MB	RJH

DRAWING SCALE NOTE: THE DRAWINGS ARE DESIGNED FOR 11"x17" (TABLOID/LEGAL) SIZED PAPER, WHERE MUNICIPALITIES REQUIRE 24"x36" COPIES OF PRINTS. LANDTECH SHALL PLOT THE DRAWINGS AT A RATIO OF 2:1. ALL SUCH COPIES SHALL HAVE A SCALE 1/2 THE SHOWN SIZE.

**TeleCAD Wireless**

1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500 FAX: 423-843-9509

**LANDTECH**

PROFESSIONAL SURVEYING & ENGINEERING  
 AL, AR, AZ, CO, FL, GA, IL, IN, IA, KS, KY, LA, MI, MN, MO, NE, NC, ND, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, VA, WI, WV  
 231.943.0050ph 877.820.LAND toll free  
 www.landtechps.com www.towersurveyors.com

**GN HUNTWICK**

SITE ADDRESS:  
 1201 S. COUNTY ROAD  
 1050 EAST  
 INDIANAPOLIS, IN 46231  
 COUNTY: HENDRICKS

Sheet Title:  
**SURVEY PLAN**

Sheet Number:  
**S-1**

● IRON FOUND	○ <sup>ST</sup> STORM MANHOLE	⊠ LIGHT POLE	○ SIGN POST
○ IRON SET	⊕ CATCH BASIN	⊠ ELECTRIC TRANSFORMER	⊠ FENCE LINE
• P.K. NAIL FOUND	⊠ SQUARE CATCH BASIN	⊠ POWER POLE	⊠ BENCHMARK
• P.K. NAIL SET	○ <sup>SM</sup> SANITARY MANHOLE	⊠ GUY	
⊕ GPS MONUMENT	○ SANITARY CLEAN-OUT	⊠ WATER VALVE	
⊕ MONUMENT BOX FOUND	⊕ MONITOR WELL	⊠ HYDRANT	
⊕ MONUMENT FOUND	⊕ TELCO MANHOLE	⊠ GAS METER	
⊕ MONUMENT SET	⊕ ELECTRIC METER	⊠ GAS MARKER	
(R) RECORD	⊕ <sup>EH</sup> ELECTRIC HANDHOLE	⊠ GAS VALVE	
(M) MEASURED		⊠ TELEPHONE PEDESTAL	

**LEGEND**

ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.



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PH: 423-843-9500 FAX: 423-843-9509

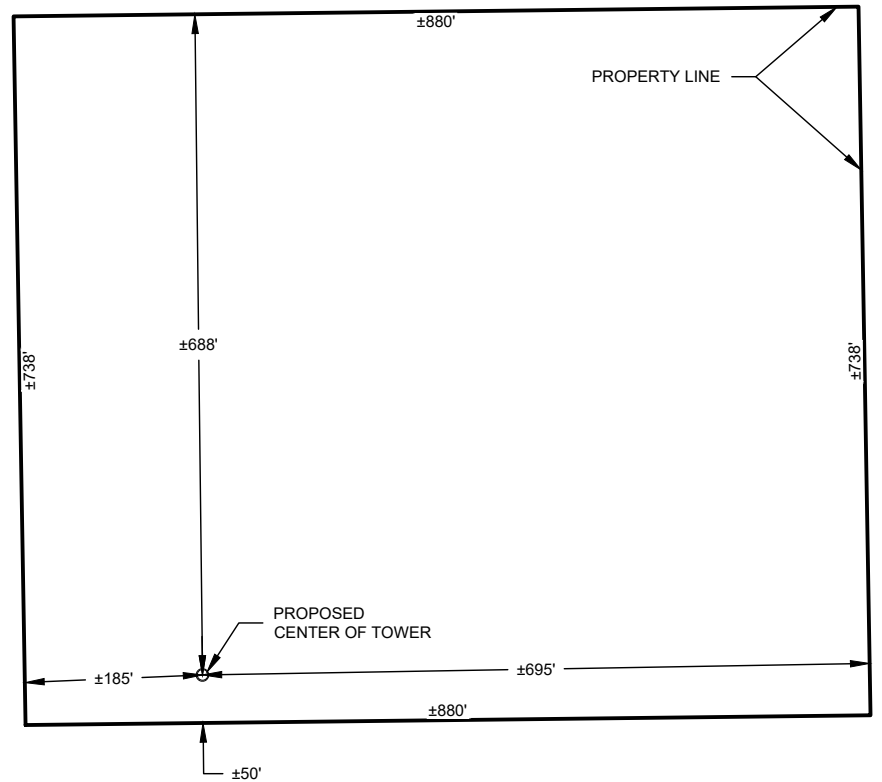
PROFESSIONAL SURVEYING & ENGINEERING  
AL, AR, AZ, CO, FL, GA, IL, IN, IA, KS, KY, LA, MI, MN, MO, NE, NC, ND, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, VA, WV, WI  
231.943.0050ph 877.820.LAND toll free  
www.landtechps.com www.towersurveyors.com

**GN HUNTWICK**

SITE ADDRESS:  
1201 S. COUNTY ROAD  
1050 EAST  
INDIANAPOLIS, IN 46231  
COUNTY: HENDRICKS

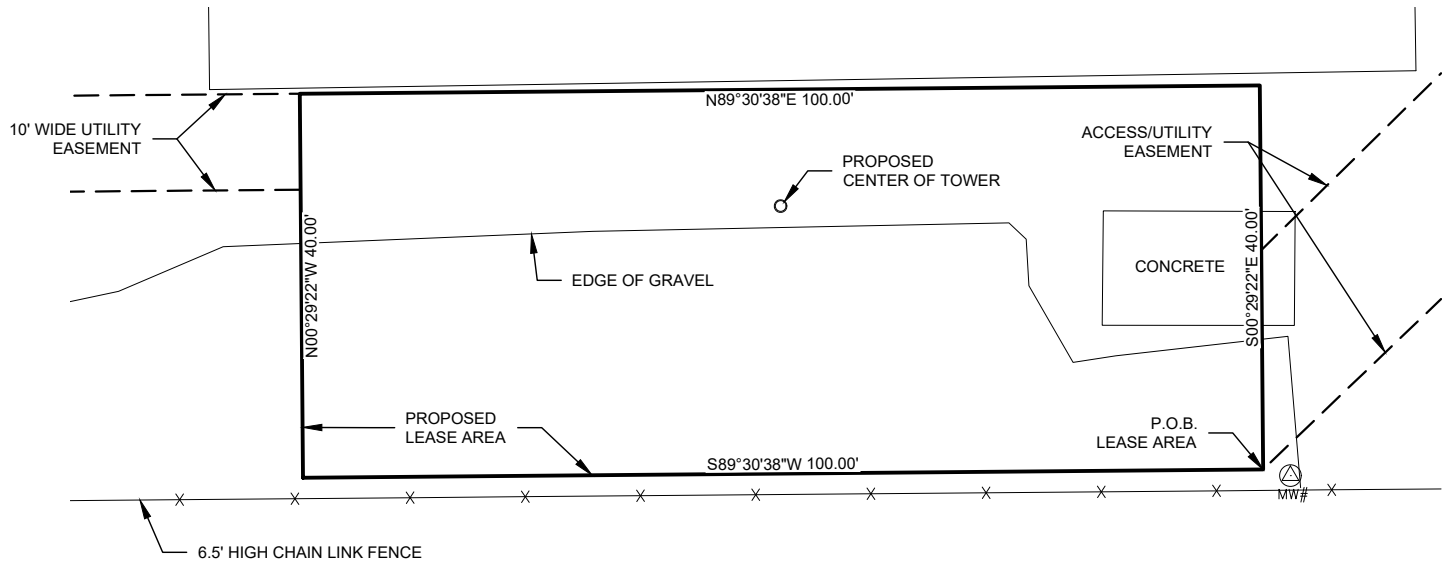
Sheet Title:  
**SURVEY PLAN**

Sheet Number:  
**S-2**



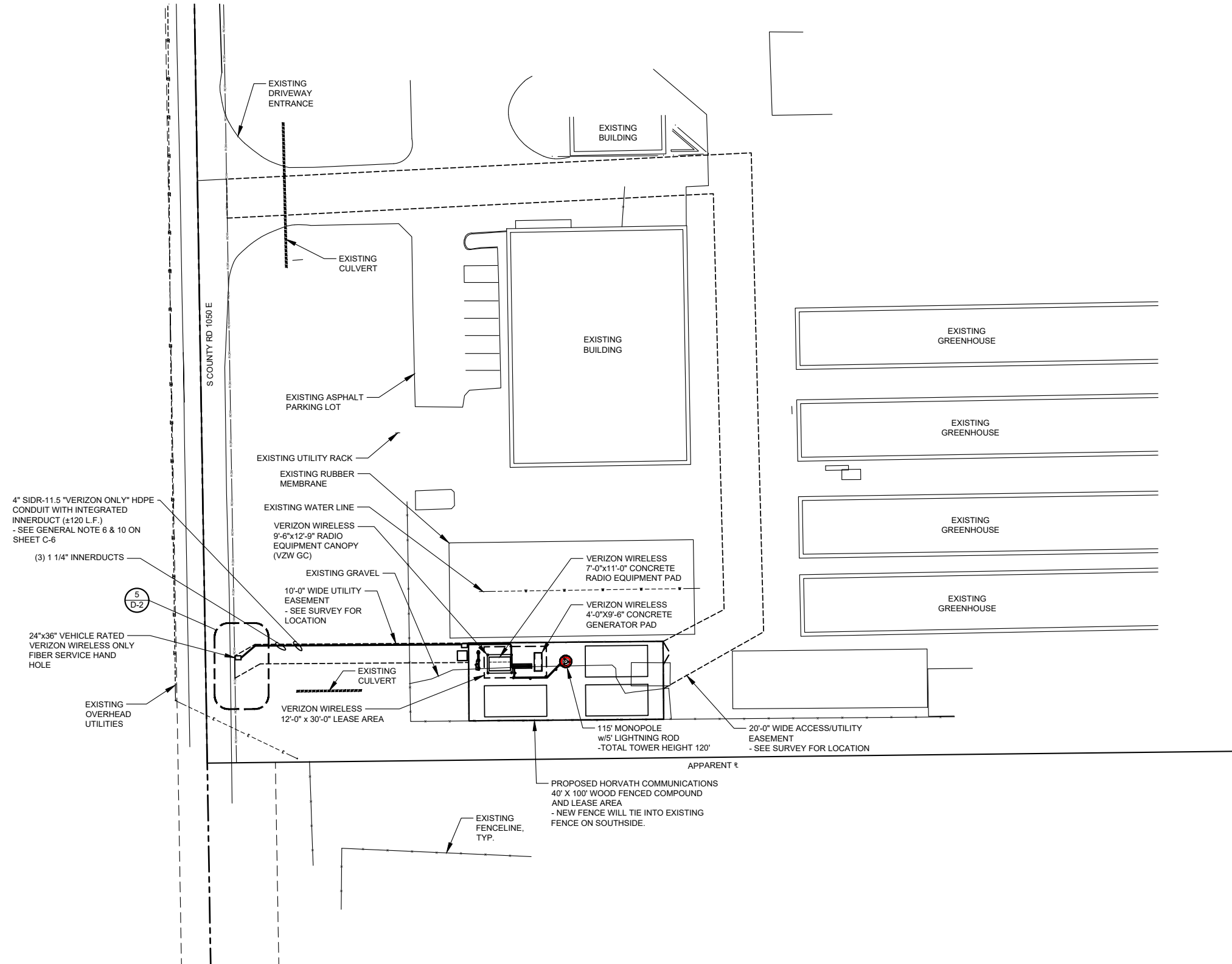
**PARENT PARCEL DETAIL**

SCALE: 1"=200'



**LEASE DETAIL**

SCALE: 1"=20'



4" SIDR-11.5 "VERIZON ONLY" HDPE CONDUIT WITH INTEGRATED INNERDUCT (±120 L.F.)  
- SEE GENERAL NOTE 6 & 10 ON SHEET C-6

(3) 1 1/4" INNERDUCTS

24"x36" VEHICLE RATED VERIZON WIRELESS ONLY FIBER SERVICE HAND HOLE

EXISTING OVERHEAD UTILITIES

5  
D-2

EXISTING UTILITY RACK

EXISTING RUBBER MEMBRANE

EXISTING WATER LINE

VERIZON WIRELESS 9'-6"x12'-9" RADIO EQUIPMENT CANOPY (VZW GC)

EXISTING GRAVEL

10'-0" WIDE UTILITY EASEMENT - SEE SURVEY FOR LOCATION

VERIZON WIRELESS 7'-0"x11'-0" CONCRETE RADIO EQUIPMENT PAD

VERIZON WIRELESS 4'-0"x9'-6" CONCRETE GENERATOR PAD

EXISTING CULVERT

VERIZON WIRELESS 12'-0" x 30'-0" LEASE AREA

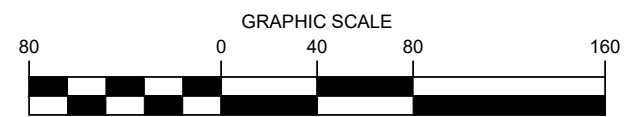
115' MONOPOLE w/5' LIGHTNING ROD - TOTAL TOWER HEIGHT 120'

20'-0" WIDE ACCESS/UTILITY EASEMENT - SEE SURVEY FOR LOCATION

PROPOSED HORVATH COMMUNICATIONS 40' X 100' WOOD FENCED COMPOUND AND LEASE AREA - NEW FENCE WILL TIE INTO EXISTING FENCE ON SOUTHSIDE.

**OVERALL SITE PLAN  
w/AERIAL OVERLAY**

SCALE: 1" = 60'



**811**  
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TOLL FREE: 1-800-482-7171 OR  
www.missdig.org

MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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CHECKED BY:	DS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

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SITE NAME:  
**HUNTWICK REAGAN PKWY**

ADDRESS:  
1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231

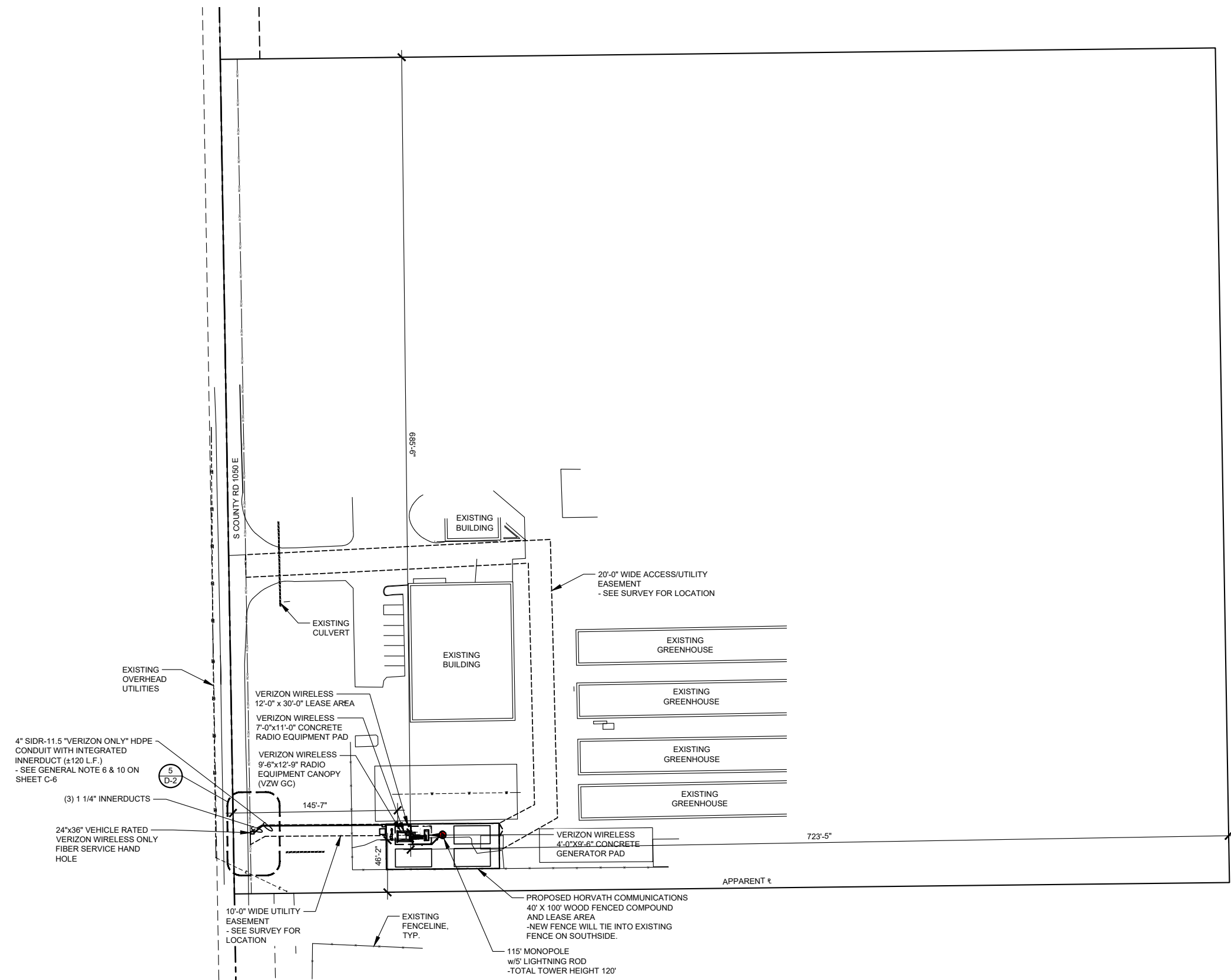
COUNTY:  
**HENDRICKS**

LATITUDE:  
**39° 44' 39.40" N**

LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

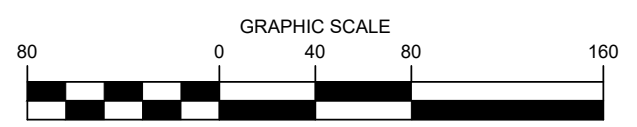
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DRAWING NO.	REVISION:
C-1	A



4" SIDR-11.5 "VERIZON ONLY" HDPE CONDUIT WITH INTEGRATED INNERDUCT (±120 L.F.)  
- SEE GENERAL NOTE 6 & 10 ON SHEET C-6

(3) 1 1/4" INNERDUCTS

24"x36" VEHICLE RATED VERIZON WIRELESS ONLY FIBER SERVICE HAND HOLE



**OVERALL SITE PLAN w/PAD DISTANCE TO PROPERTY LINES**

SCALE: 1" = 80'



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**HV1624**

SHEET TITLE:	
DRAWING NO. <b>C-1A</b>	REVISION: <b>A</b>



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**TeleCAD**  
 Wireless  
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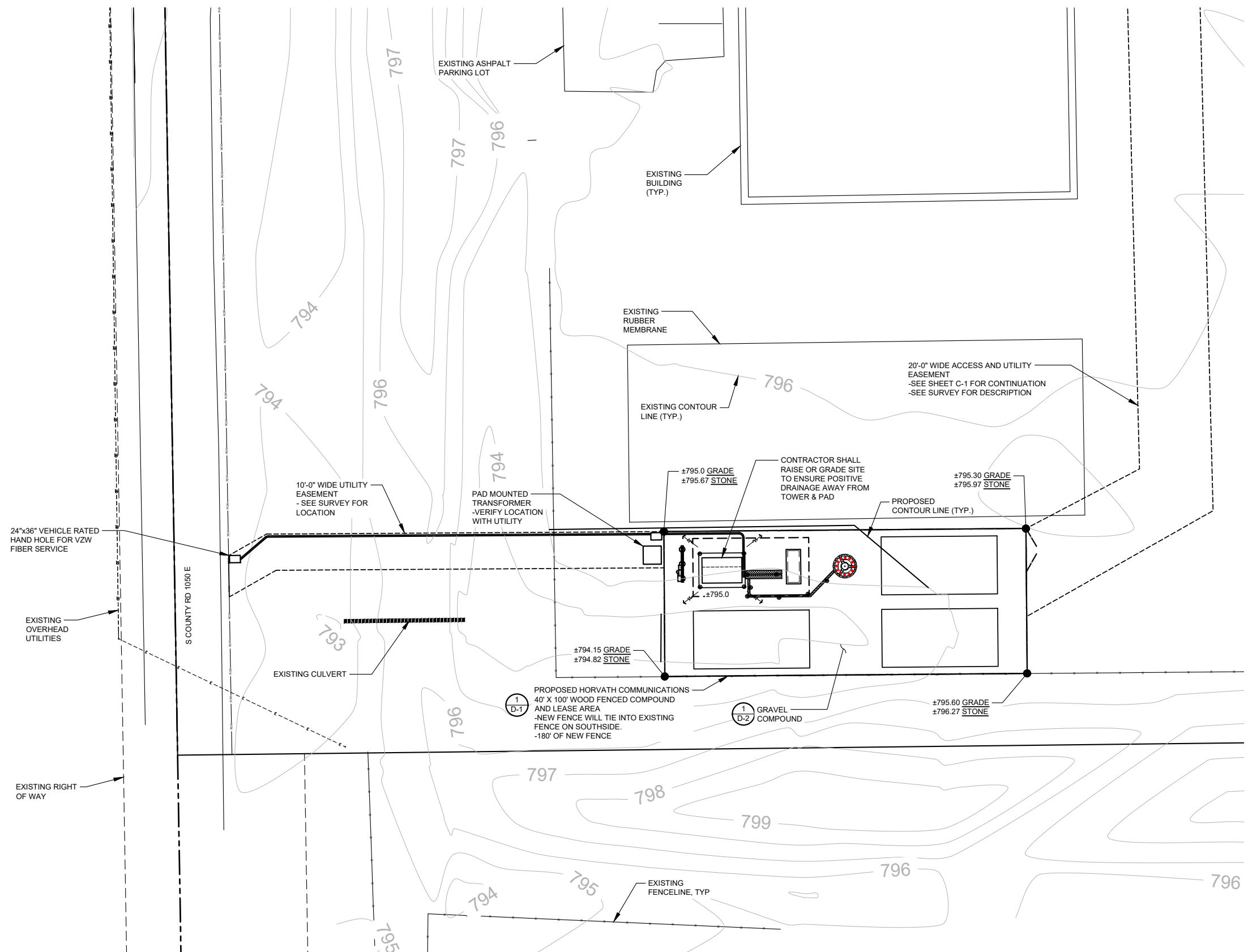
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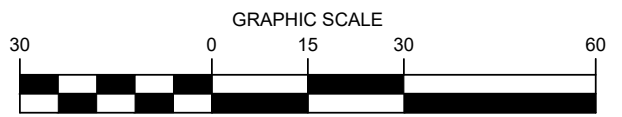
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DRAWING NO. C-2  
 REVISION: A



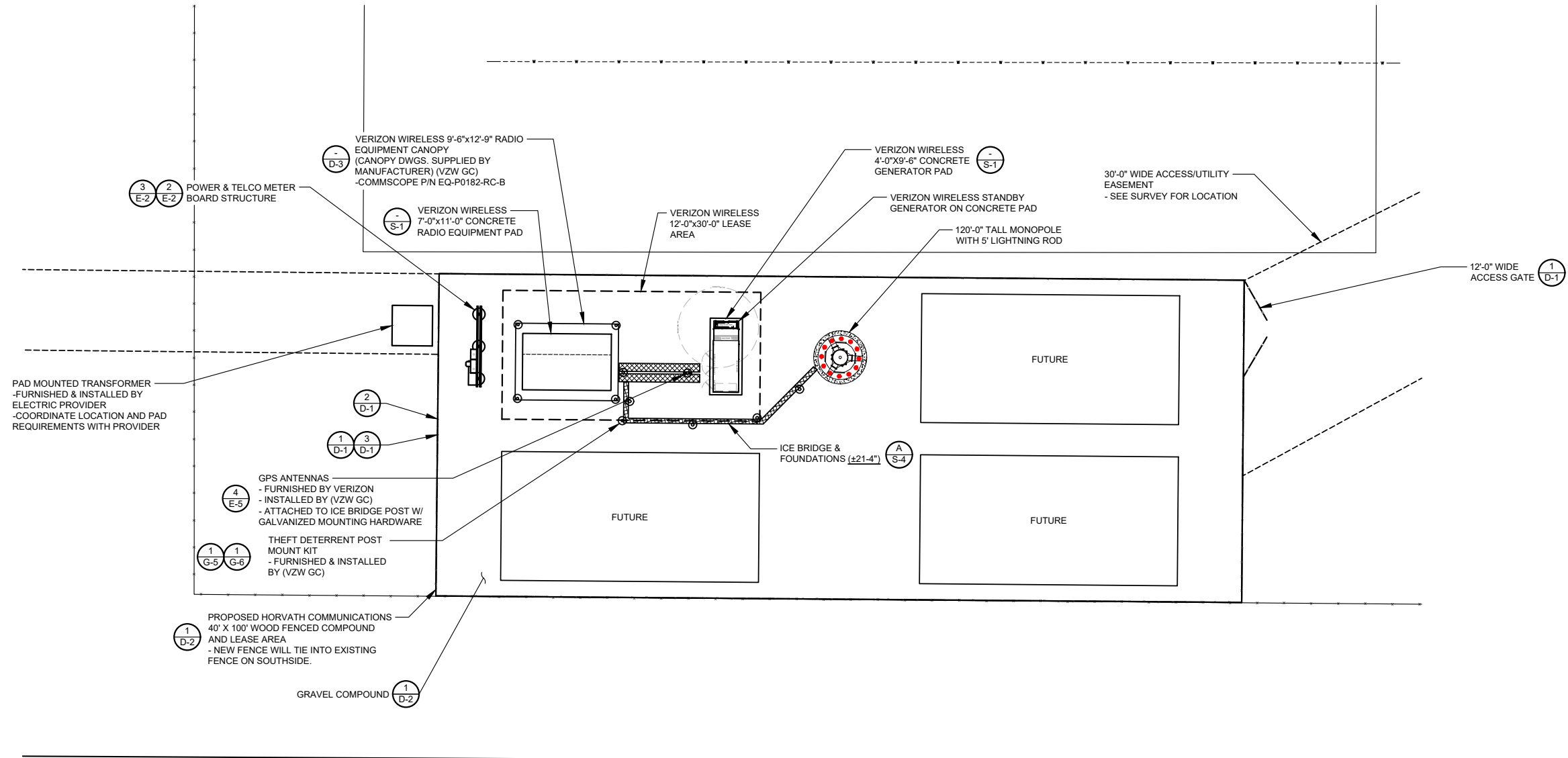
**GRADING AND E&S CONTROL PLAN**

SCALE: 1" = 30'



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PAD MOUNTED TRANSFORMER  
-FURNISHED & INSTALLED BY  
ELECTRIC PROVIDER  
-COORDINATE LOCATION AND PAD  
REQUIREMENTS WITH PROVIDER

GPS ANTENNAS  
- FURNISHED BY VERIZON  
- INSTALLED BY (VZW GC)  
- ATTACHED TO ICE BRIDGE POST W/  
GALVANIZED MOUNTING HARDWARE

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

PROPOSED HORVATH COMMUNICATIONS  
40' X 100' WOOD FENCED COMPOUND  
AND LEASE AREA  
- NEW FENCE WILL TIE INTO EXISTING  
FENCE ON SOUTHSIDE.

GRAVEL COMPOUND

### DETAILED SITE PLAN

SCALE: 1/16" = 1'-0"



LEGEND	
	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLEw/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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REVISIONS			
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A	03/25/24	MJB	PRELIMINARY REVIEW

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ADDRESS:  
1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231

COUNTY:  
**HENDRICKS**

LATITUDE:  
**39° 44' 39.40" N**

LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO.	REVISION:
C-3	A

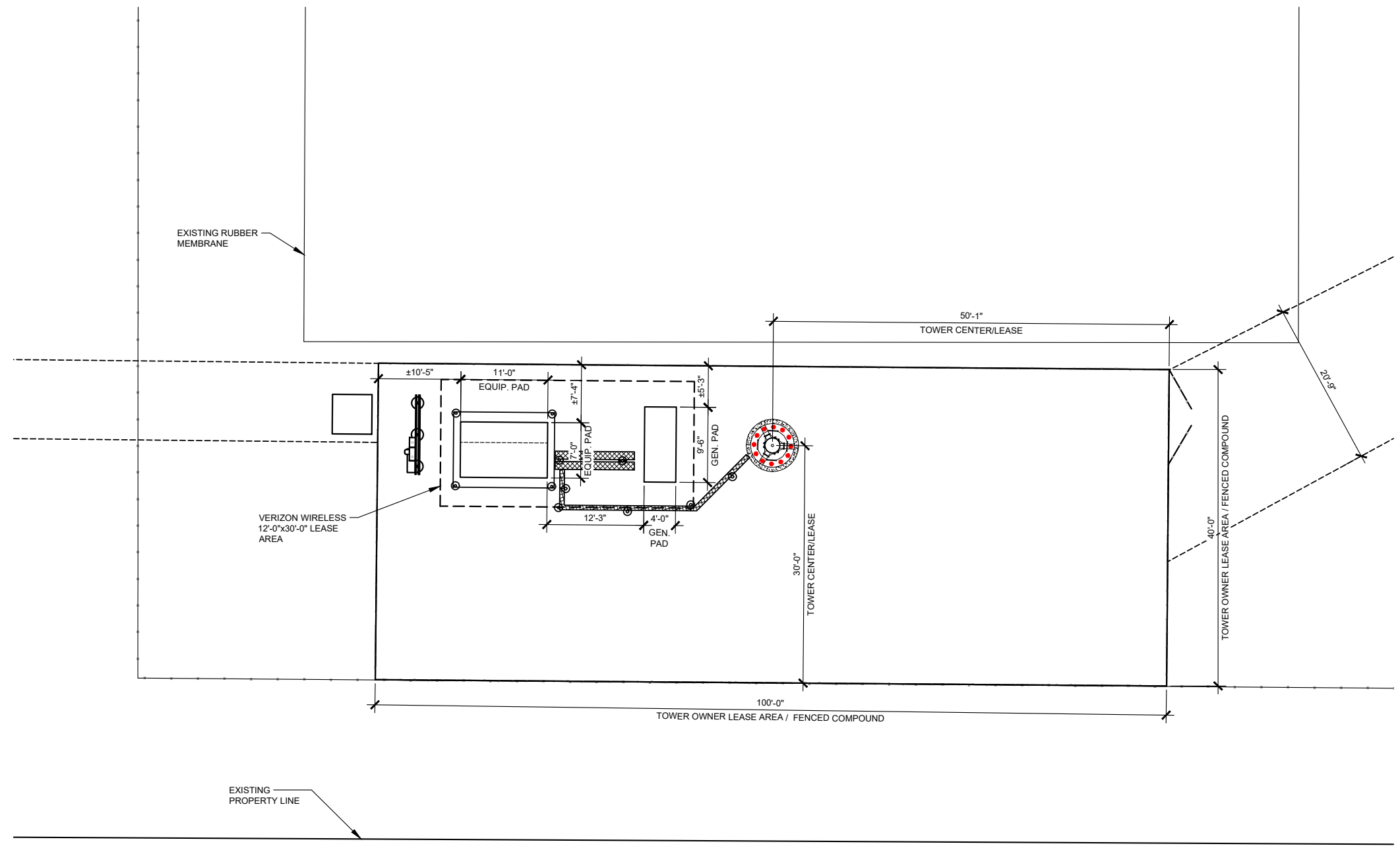


TO OBTAIN LOCATION OF PARTICIPANTS  
UNDERGROUND FACILITIES BEFORE  
YOU DIG IN MICHIGAN, CALL MISS DIG  
TOLL FREE: 1-800-482-7171 OR  
www.missdig.org

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

Know what's below.  
Call before you dig.

MICHIGAN STATUTE  
REQUIRES MIN OF 2  
WORKING DAYS NOTICE  
BEFORE YOU EXCAVATE



PREPARED BY:

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 HIXSON, TN 37343  
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 LONGITUDE:  
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 SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. C-4	REVISION: A
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**LEGEND**

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLE/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	NEW LEASE AREA AND EASEMENT
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

**DIMENSIONED SITE PLAN**  
 SCALE: 1/16" = 1'-0"



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MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

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



PREPARED BY:  
**TeleCAD**  
 Wireless  
 1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
 FAX: 423-843-9509

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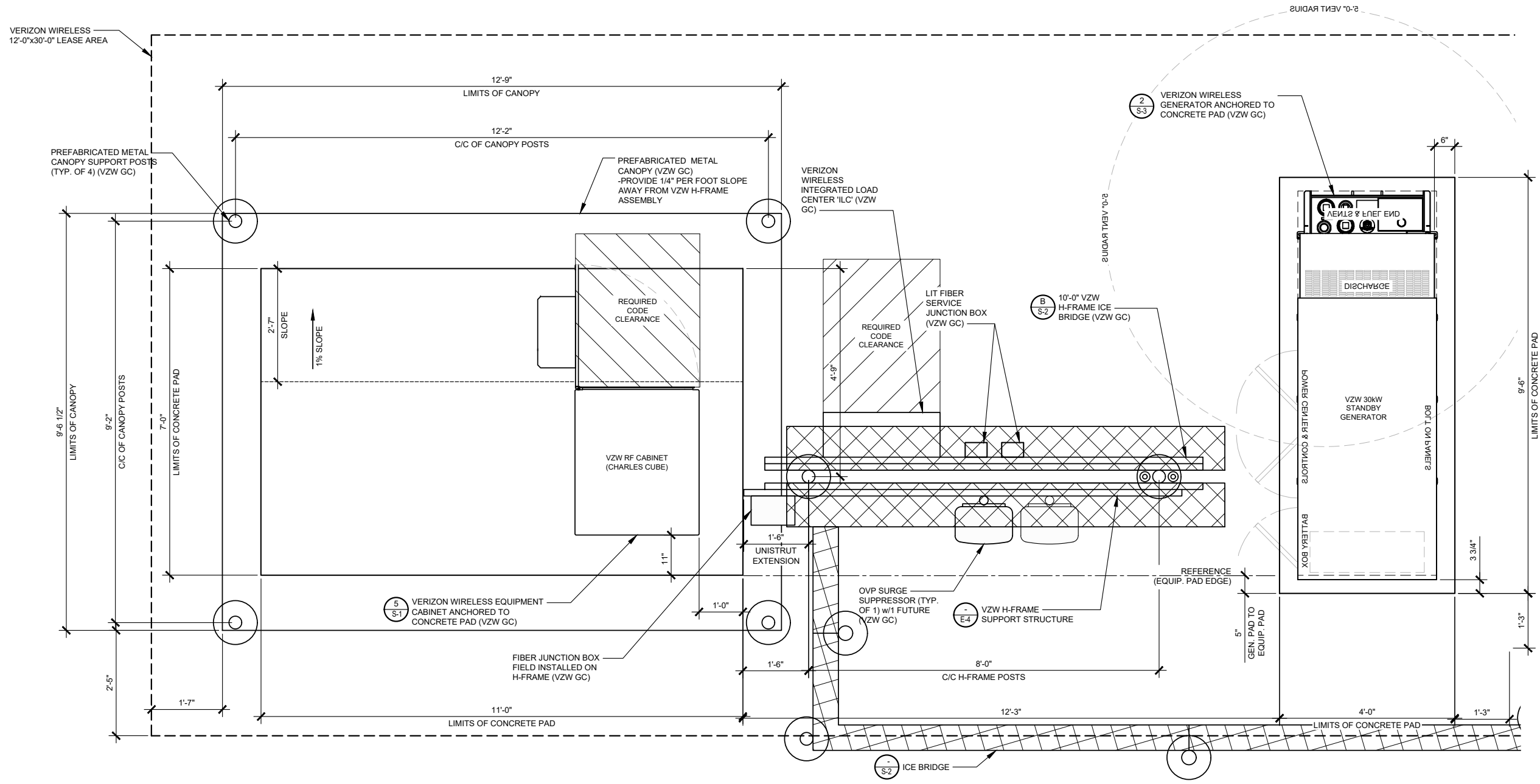
DRAWN BY: MJB  
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REVISIONS				
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A	03/25/24	MJB	PRELIMINARY REVIEW	

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 INDIANAPOLIS, IN 46231  
 COUNTY:  
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**39° 44' 39.40" N**  
 LONGITUDE:  
**86° 20' 07.56" W**  
 SITE NUMBER:  
**HV1624**

SHEET TITLE:  
 DRAWING NO. C-5  
 REVISION: A



**DETAILED VZW EQUIPMENT PLAN**

SCALE: 3/8" = 1'-0"



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

# 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:

HORVATH COMMUNICATIONS  
2307 EDISON RD  
SOUTH BEND, IN 46615  
CONTACT: JENNIFER SIROVICA  
PHONE: 574-215-0620

## PROPERTY OWNER REPRESENTATIVE:

BLUE GRASS FARMS INC.  
1915 W 53RD S  
ANDERSON, IN 46013  
CONTACT: BRENT SCHALK  
PHONE: 765-208-0627  
E-MAIL: SCHALK@BLUEGRASSFARMS.NET

## 3. ANTENNA INSTALLATION:

THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/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 CABINETS, CANOPY AND GENERATOR:

THIS 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. THE EQUIPMENT CABINETS SHALL BE LIFTED INTO PLACE ON THE CONCRETE EQUIPMENT PAD. THE GENERATOR SHALL BE LIFTED INTO PLACE BY USING TWO SPREADER BAR ASSEMBLIES. EACH SPREADER BAR SHALL BE A MINIMUM 3' WIDE (RATED TO CARRY 3 TONS). THE GENERATOR WEIGHT IS 1,425# WITH TANK PEDESTAL. VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL ANCHOR THE EQUIPMENT CABINETS AND GENERATOR BASE TO THE CONCRETE USING ANCHOR BOLTS. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF ALL EQUIPMENT 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 CABINETS, CANOPY AND GENERATOR AND SHALL INCLUDE THIS WORK IN THE VZW EQUIPMENT INSTALLATION PORTION OF THE BID.

## 6. UTILITIES:

THE GENERAL 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 4" CONDUIT WITH PULL TAPE FROM THE METER BOARD TO THE NEW PAD MOUNTED TRANSFORMER LOCATION AND STUB UP 6" ABOVE GRADE. THE ELECTRICAL PROVIDER WILL THEN RUN UNDERGROUND CONDUIT FROM THE NEW TRANSFORMER TO THE NEW UTILITY POLE. CONTACT ----- @ ###-###-#### WITH ???????? 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 ----- ENERGY 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 ----- 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 ELECTRIC PROVIDER 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.

- ONE 4" SIDR-11.5 HDPE FIBER CONDUITS w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND MEET POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:
  - THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUAZITE|HUBBELL POWER SYSTEMS MODEL PG2436Z1857B4 ASSY T22 SW OB 24x36x30 VERIZON V, OR APPROVED EQUALS. ALTERNATIVE HANDHOLES MAY BE USED IF MEETING THE DESIGNATED LOADING AND HAVING DIMENSIONS OF AT LEAST 2'x3'x2.5'. ALL VERIZON HANDHOLES TO HAVE "VERIZON" LOGO ON COVER.
  - THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE, AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
- CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S)
- ONE 4" SIDR-11.5 HDPE FIBER CONDUIT w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM VERIZON WIRELESS ONLY HANDHOLE OUTSIDE COMPOUND TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS)

## ELECTRIC SERVICE PROVIDED BY:

??????? POWER  
ADDRESS: STREET ADDRESS  
CITY, ST ZIP CODE

CONTACT: TBD  
PHONE: TBD  
EMAIL: TBD

## 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.

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

2. 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.

3. 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.

4. 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.

1. 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 THEMSELVES AND THEIR 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 1-800-382-5544 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 (A&E FIRM) 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 A&E FIRM BY SURVEYING FIRM. A&E FIRM 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, EQUIPMENT PAD, 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.

## 24. 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.

PREPARED FOR:



PREPARED BY:



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INDIANAPOLIS, IN 46231

COUNTY:

HENDRICKS

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HV1624

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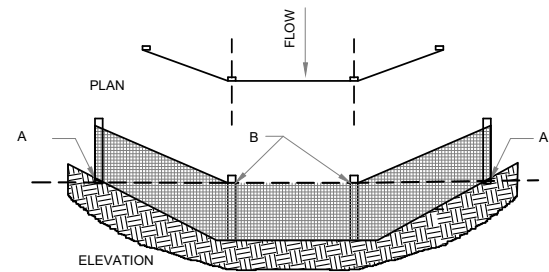
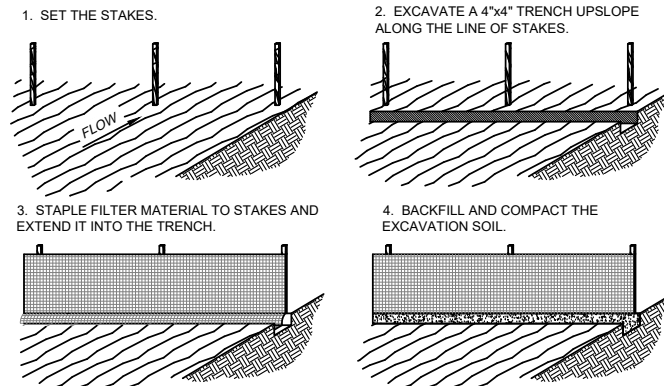
## EROSION & SEDIMENT CONTROL NOTES

1. ALL WORK SPECIFIED AS A/IAN DOT ITEM SHALL BE GOVERNED BY THE STATE OF INDIANA OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
2. 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.
3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
4. 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.

### SEEDING

RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF 4 INCHES OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD, SHALL BE DONE WITHIN 5 DAYS OF THE COMPLETION OF FINAL GRADING. MINIMUM SEEDING REQUIREMENTS CONSIST OF 200 LBS/ACRE OF SEED, 500 LBS/ACRE OF 10/10/10 ANALYSIS FERTILIZER (OR EQUAL) AND STRAW MULCH AT A RATE OF 1.5 TONS/ACRE (OR EQUIVALENT)

5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER PREVENTION PLANS, DETAILS AND NOTES.
13. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 0.96 ACRES.
14. 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.
15. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
17. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
18. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
  1. SILT BARRIERS
  2. SILT FENCE
  3. CONSTRUCTION ENTRANCE
  4. EROSION CONTROL SEED BLANKETS - SPEC FOR TEMPORARY EROSION CONTROL BLANKETS ON SLOPES/DITCHES



POINTS A SHOULD BE HIGHER THAN POINT B

### SILT FENCE DETAIL

SCALE: N.T.S.



## CONSTRUCTION SEQUENCE

1. STAKE AND/OR FLAG LIMITS OF CLEARING
2. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
3. CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
4. INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON PLANS.
5. 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.
6. CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
7. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
8. CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALES DURING FILLING AND GRADING ACTIVITIES.
9. CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
10. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
11. REMOVE SEDIMENT CONTROLS.

PREPARED FOR:



PREPARED BY:



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ADDRESS:  
 1201 S COUNTY ROAD 1050 EAST  
 INDIANAPOLIS, IN 46231

COUNTY:  
**HENDRICKS**

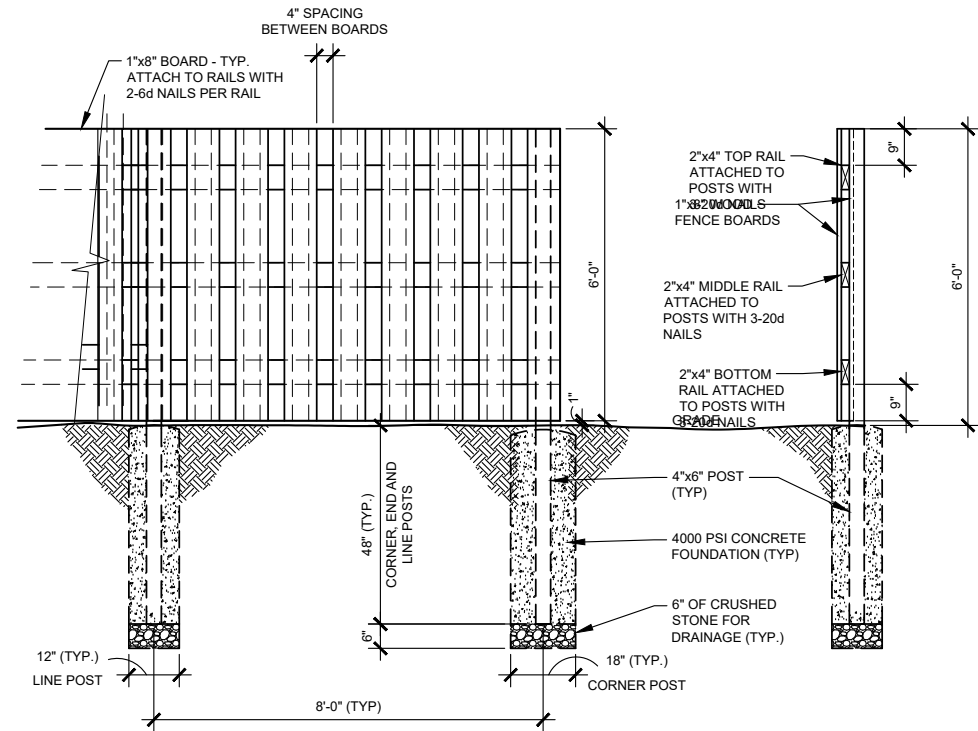
LATITUDE:  
**39° 44' 39.40" N**

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**HV1624**

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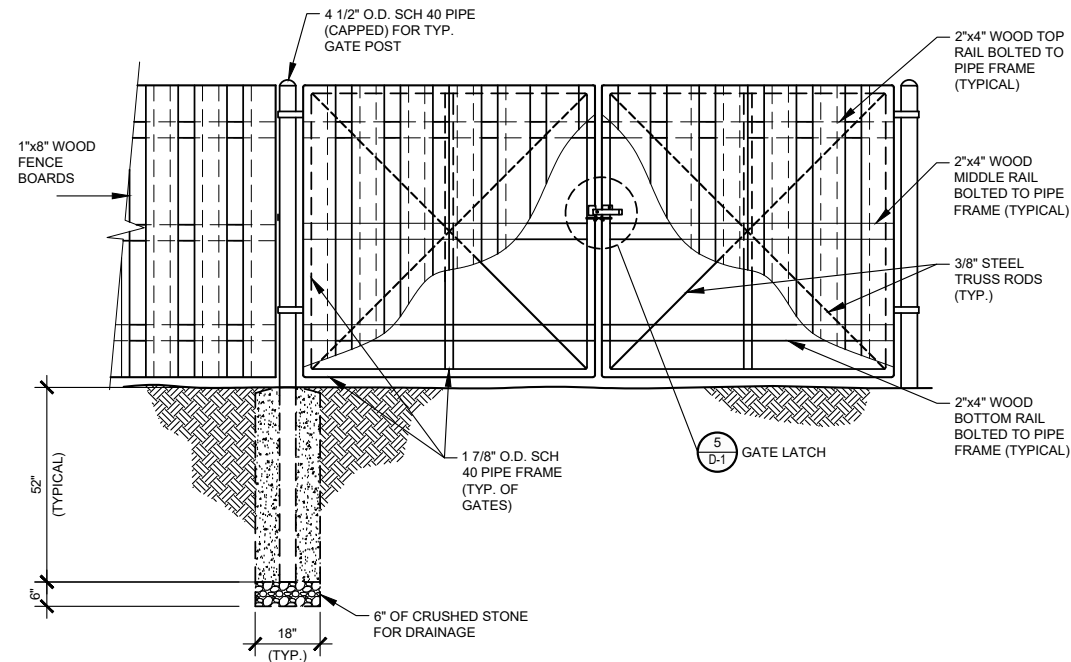
DRAWING NO. <b>C-7</b>	REVISION: <b>A</b>
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SHADOWBOX WOOD FENCE & POST DETAIL

SCALE: N.T.S.

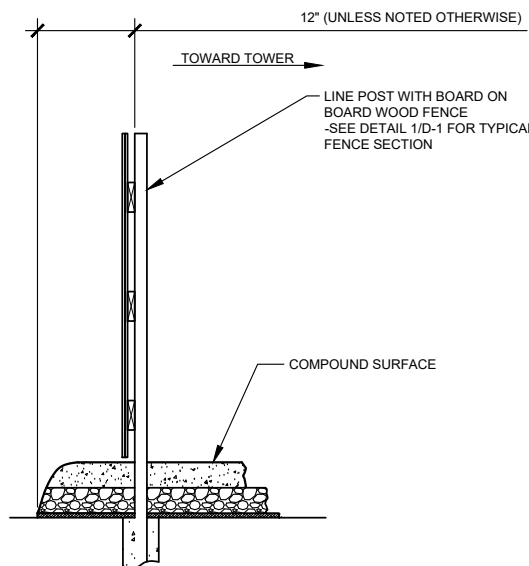
1  
D-1



SHADOWBOX WOOD GATE DETAIL

SCALE: N.T.S.

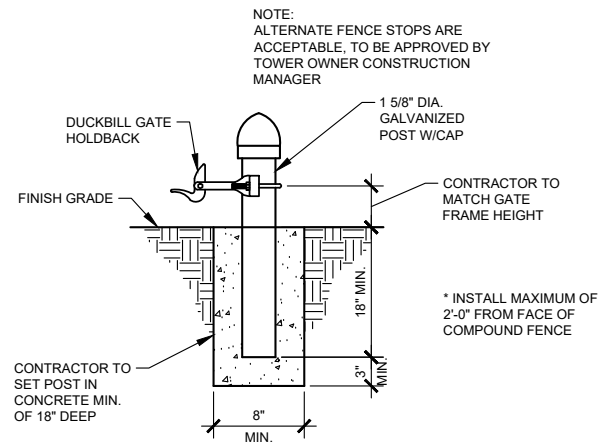
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SITE AREA SURFACING

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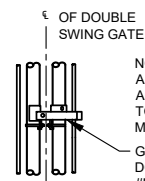
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D-1



GATE KEEPER DETAIL

SCALE: N.T.S.

4  
D-1



GATE LATCH DETAIL

SCALE: N.T.S.

5  
D-1

### WOOD FENCING NOTES

1. BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROST LINE (SEE LOCAL CODE) CONCRETE BASE IS RECOMMENDED MINIMUM AND SHOULD BE REDESIGNED FOR CONDITIONS WHERE SOIL IS POOR. PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 4000 PSI. (MIN.).
2. ALL POSTS SHALL BE INSTALLED IN FOOTINGS AS SPECIFIED. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
3. ALL MATERIAL FOR THE WOOD FENCE SHALL BE PRESSURE-TREATED BY CHROMATED COPPER ABENATE (CCA) PER AMERICAN WOOD PRESERVERS BUREAU (AWPB) STANDARDS. ALL MATERIAL FOR THE WOOD FENCE SHALL BE NO. 2 GRADE OR BETTER. ALL FENCE POSTS SHALL BE PRESSURE-TREATED TO AWPB STANDARD LP-22 (GROUND CONTACT) AND ALL OTHER MATERIAL SHALL BE TREATED TO AWPB STANDARD LP-2 ABOVE GROUND USE). LP-22 TREATED WOOD MAY BE SUBSTITUTED FOR LP-2 TREATED BUT NOT THE REVERSE.
4. THE WOOD FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F537 (STANDARD SPECIFICATION FOR DESIGN, FABRICATION AND INSTALLATION OF FENCES CONSTRUCTED OF WOOD OR RELATED MATERIALS), LATEST EDITION.
5. ALL FASTENERS & HARDWARE FOR THE WOOD FENCE SHALL BE HOT DIPPED GALVANIZED.
6. ALL PIPE SHALL BE SCHEDULE 40 STEEL PIPE.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN STOPS/DEVICES FOR ALL GATES.
8. GATES SHALL SWING FREELY AND UNOBSTRUCTED IN THE DIRECTION SHOWN ON THE CONSTRUCTION DRAWINGS TO THE FULL OPEN POSITION.
9. ALL WOOD GATES SHALL HAVE PIPE FRAME BRACING (WELDED ASSEMBLY, COLD GALV. AND SILVER PAINT WELD AREAS) ALONG WITH DIAGONAL BRACING (3/8" DIA. STEEL TRUSS ROD) AS SPECIFIED.
10. THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 1" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
11. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.

PREPARED FOR:



PREPARED BY:



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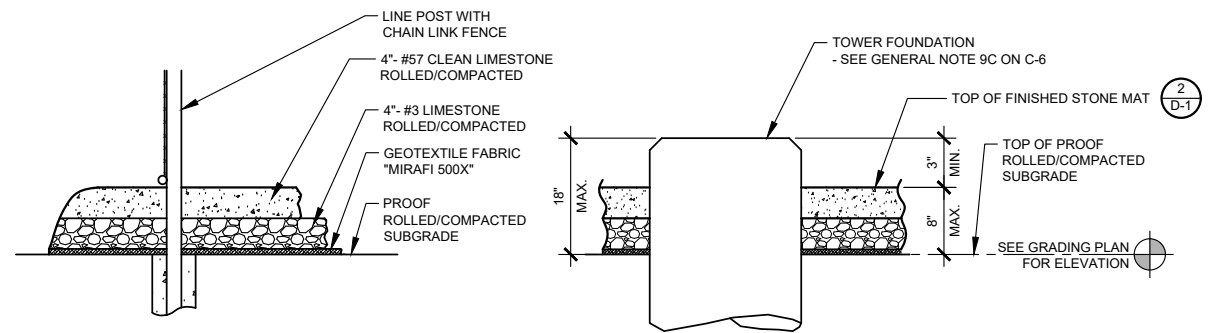
SHEET TITLE:

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D-1

REVISION:

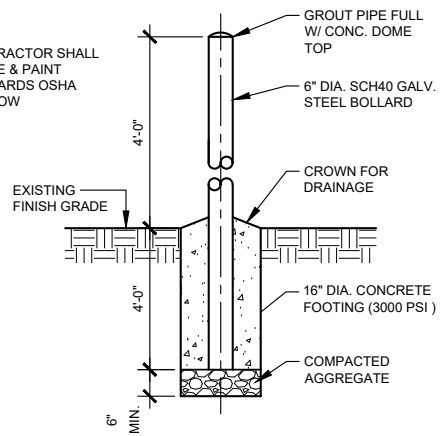
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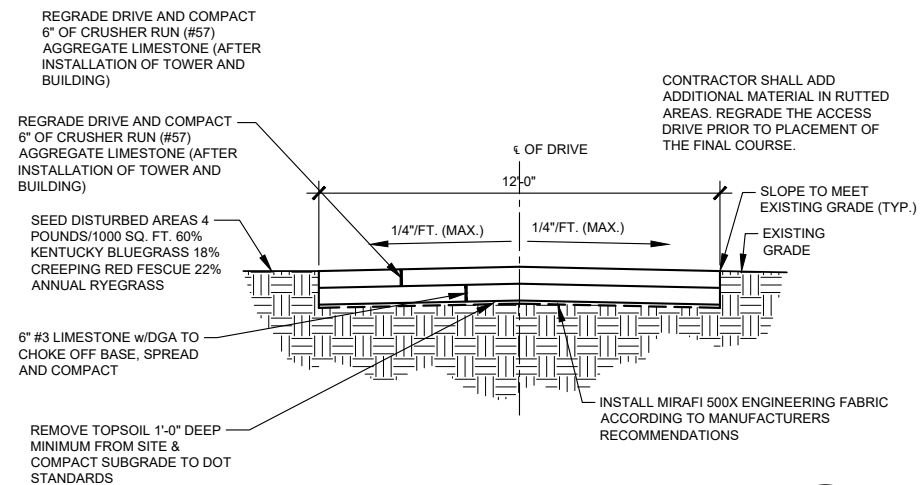
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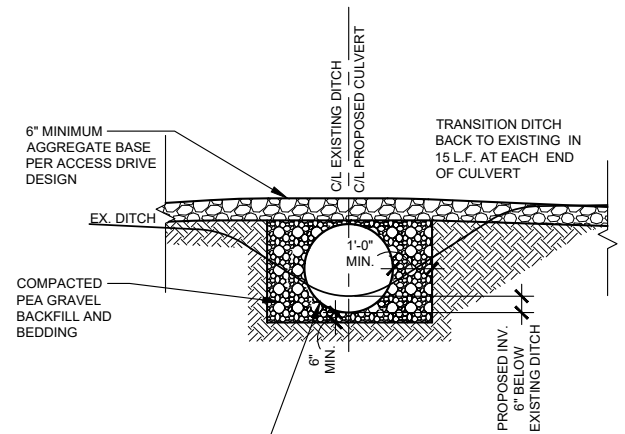
1. CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW



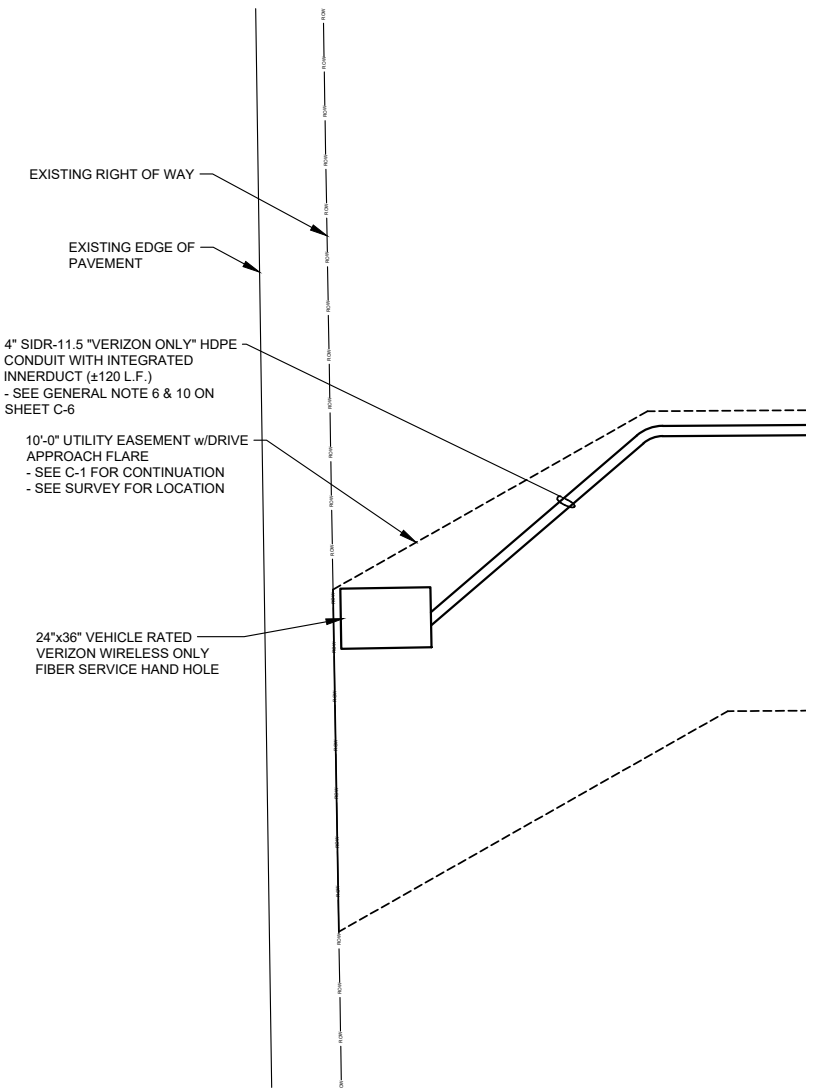
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SCALE: N.T.S. D-2



**ACCESS DRIVE TYPICAL SECTION** 2  
SCALE: N.T.S. D-2



**CULVERT DETAIL** 3  
SCALE: N.T.S. D-2



**ENLARGED FIBER HAND HOLE PLAN AT R.O.W.** 5  
SCALE: 3/32" = 1'-0" D-2



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**HUNTWICK REAGAN PKWY**

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**1201 S COUNTY ROAD 1050 EAST  
INDIANAPOLIS, IN 46231**

COUNTY:  
**HENDRICKS**

LATITUDE:  
**39° 44' 39.40" N**

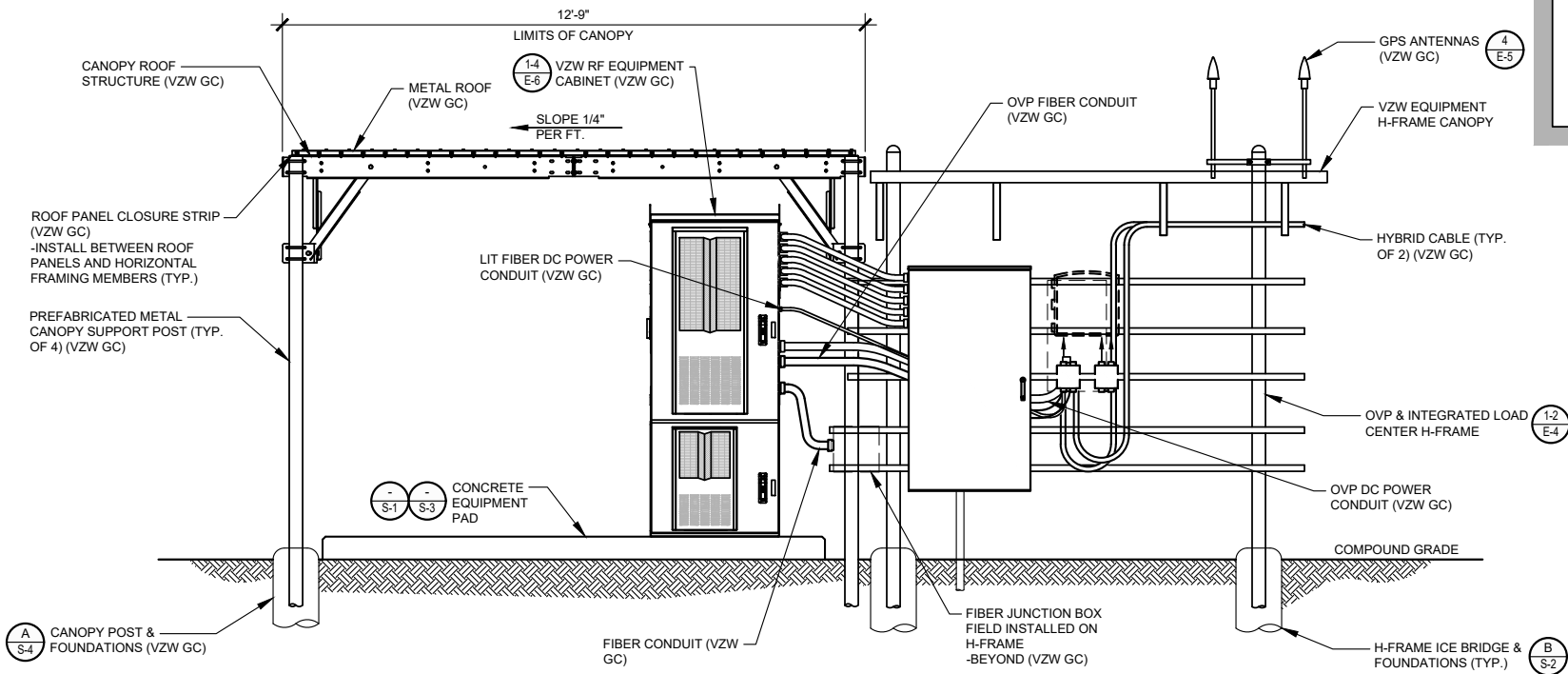
LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

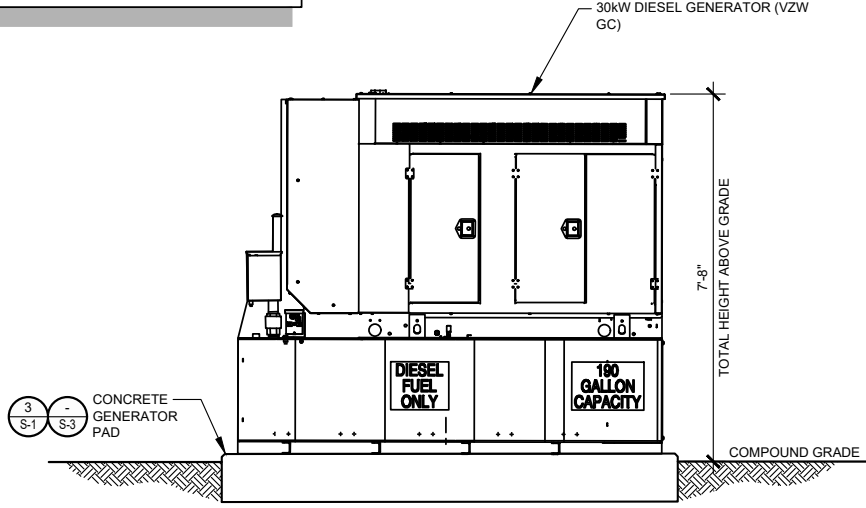
SHEET TITLE:

DRAWING NO. <b>D-3</b>	REVISION: <b>A</b>
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**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)

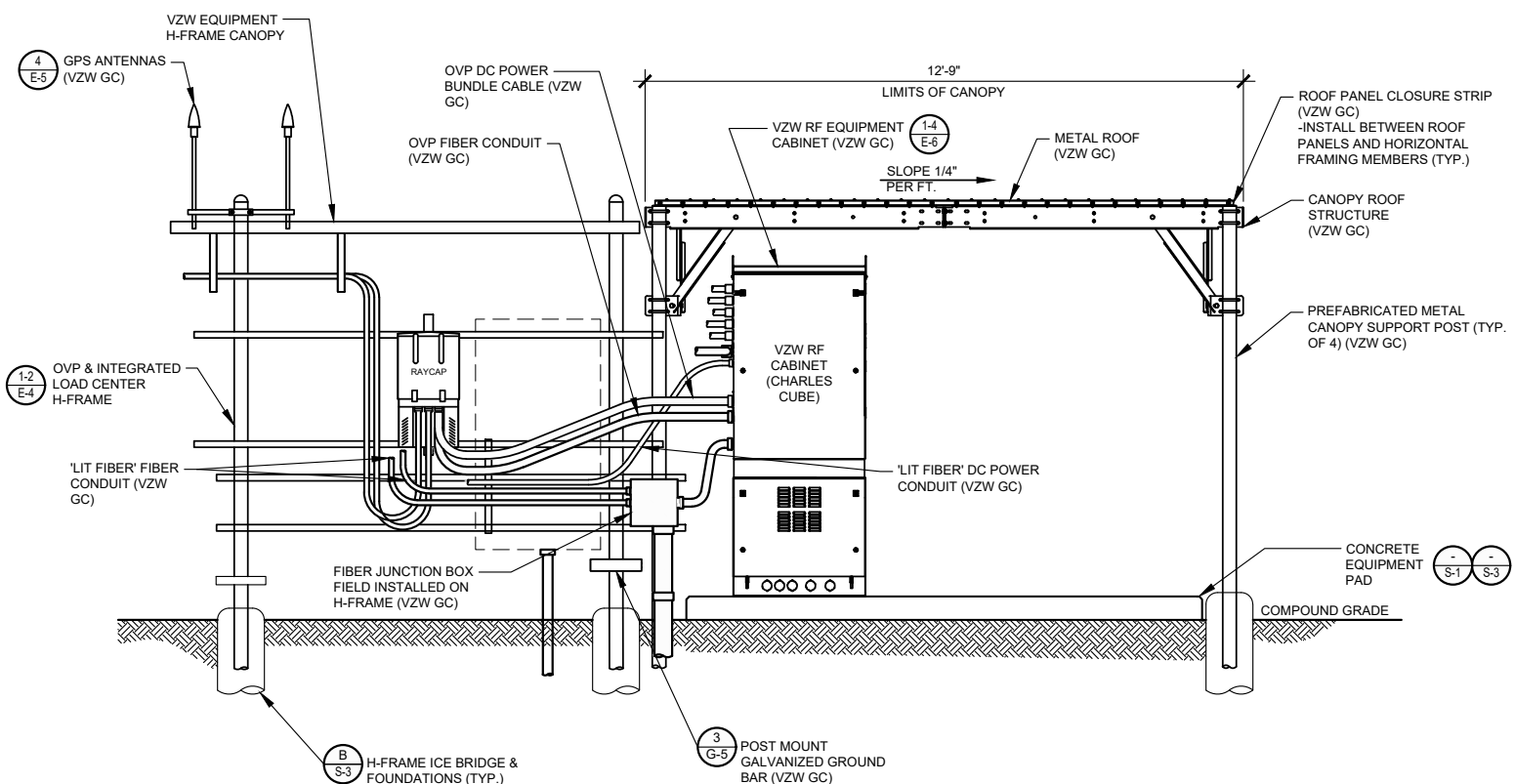


**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"

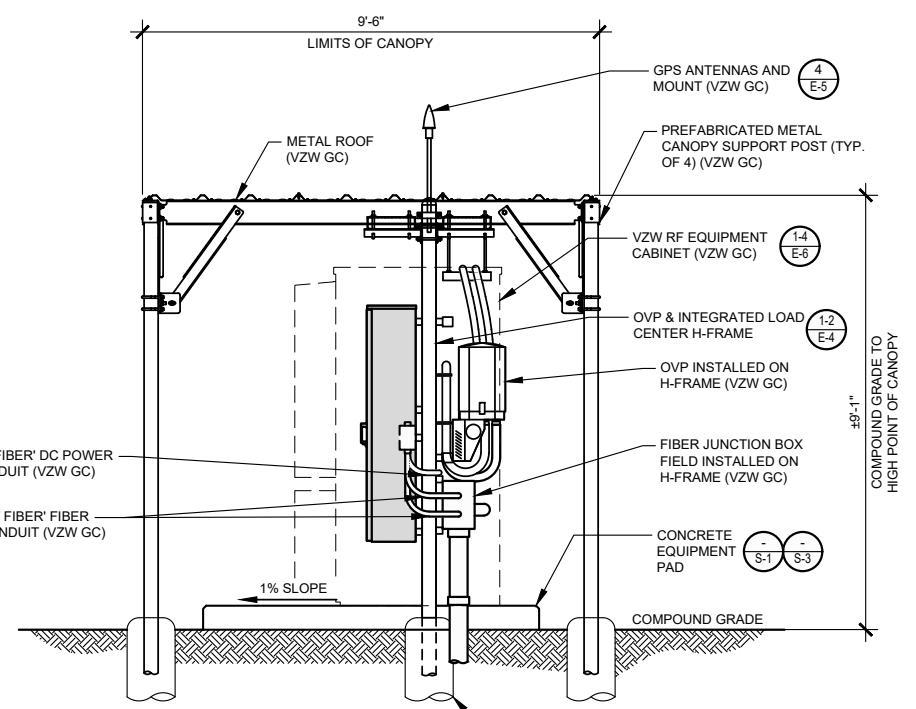


**GENERATOR ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
VERIZON WIRELESS 9'-6"x12'-9" RADIO EQUIPMENT CANOPY (CANOPY DWGS. SUPPLIED BY MANUFACTURER) (VZW GC) -COMMSCOPE P/N EQ-P0162-RC-B



**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"



**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"

### STANDARD SITE SIGNAGE:

REQUIRED SIGNS:	LOCATIONS:
C1 • N.O.C. "IN CASE OF EMERGENCY"	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
C2 • NOTICE (CONTACT INFO)	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
C3 • COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C4 • COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C5 • S.D.S.	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES

-N.O.C. STANDS FOR "NETWORK OPERATIONS CENTER"  
-S.D.S. STANDS FOR "SAFETY DATA SHEET"

### NOTES:

- CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
- CONTRACTOR SHALL INSTALL SIGN C3 OR C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.

C1



C2



C5



C3



C4





FIGURE 1 - EQUIPMENT CABINET SIGNAGE



FIGURE 2 - EME SIGN

### SIGNAGE FOR EACH GENERATOR FUEL TYPE:

#### DIESEL GENERATOR


REQUIRED SIGNS:	LOCATIONS:
D1 • "DANGER DIESEL FUEL"	INSTALL ON GENERATOR (SEE FIGURE 6)
D2 • HAZARD DIAMOND	
D3 • NOTICE SIGN	INSTALL ON FUEL TANK
D4 • FUEL TANK CAPACITY	

\*SIGNS D1 AND D2 MAY BE COMBINED TO A SINGLE SIGN

D1




D2



D3



D4



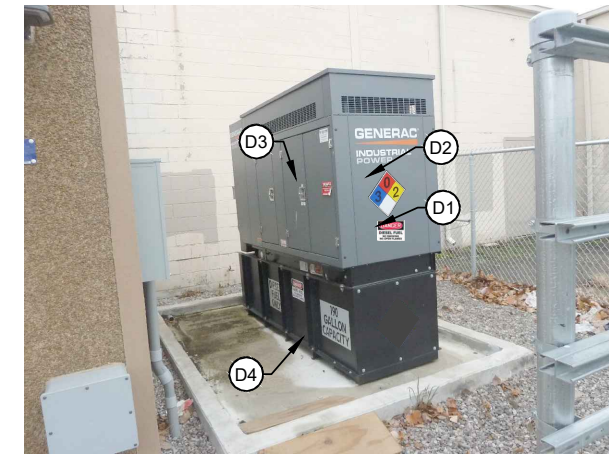



FIGURE 6 - DIESEL GENERATOR SIGNAGE


#### PROPANE GENERATOR

REQUIRED SIGNS:	LOCATIONS:
P1 • "DANGER PROPANE"	INSTALL ON PROPANE TANK (SEE FIGURE 7)
P2 • HAZARD DIAMOND	
P3 • NOTICE SIGN	INSTALL ON GENERATOR

P1



P2



P3






FIGURE 7 - PROPANE TANK & GENERATOR SIGNAGE

#### NATURAL GAS GENERATOR

REQUIRED SIGNS:	LOCATIONS:
N1 • NOTICE SIGN	INSTALL ON GENERATOR (SEE FIGURE 8)

N1



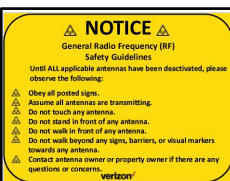


FIGURE 8 - NATURAL GAS GENERATOR SIGNAGE


### E.M.E. SIGNAGE NOTES:

VZW GC SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY E.M.E. SIGNAGE (SEE FIGURE 9) IF REQUIRED. ANY REQUIRED E.M.E. SIGNAGE WILL BE INSTALLED IN ACCORDANCE WITH THE SITE SPECIFIC PRE-E.M.E. REPORT AND MOUNT AS APPROPRIATE FOR THE SIGN LOCATION.

S1




E1




E2



E3



E4



B1




FIGURE 9 - TYPICAL E.M.E. SIGNAGE

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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CHECKED BY: DS

REVISIONS				
NO.	DATE	BY	DESCRIPTION	
A	03/25/24	MJB	PRELIMINARY REVIEW	

ENGINEER'S STAMP:

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SITE NAME:  
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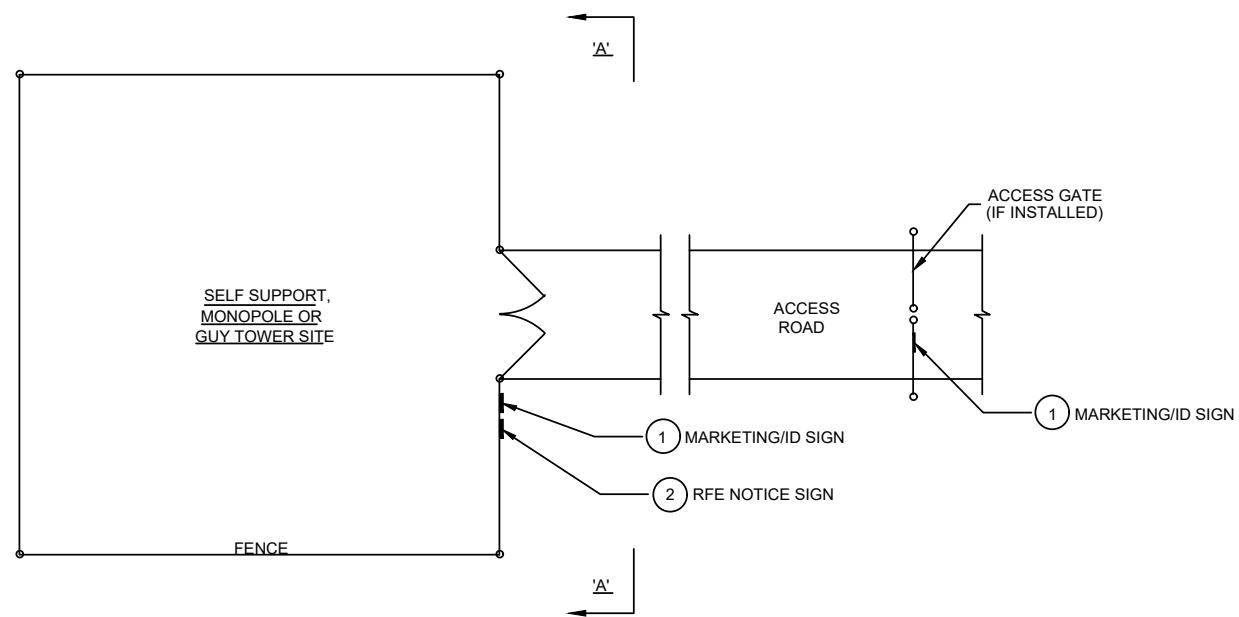
SHEET TITLE:

DRAWING NO. **D-4 (VZW)**      REVISION: **A**

**NOTES:**

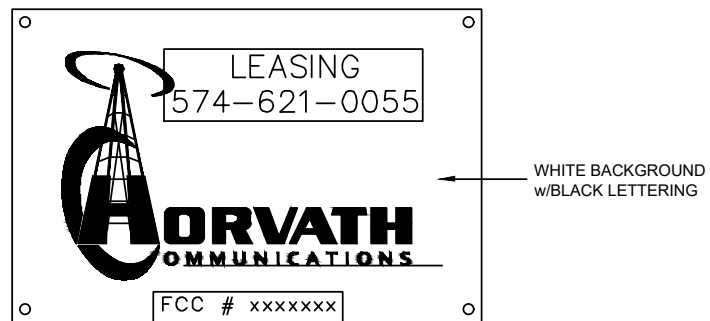
TOWER LEG W/CLIMBING CABLE. DO NOT RESTRICT CLIMBING ACCESS.

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.



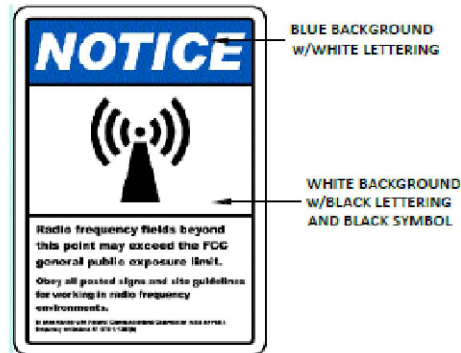
**TYPICAL SITE FENCE SIGNAGE PLAN**

SCALE: N.T.S.



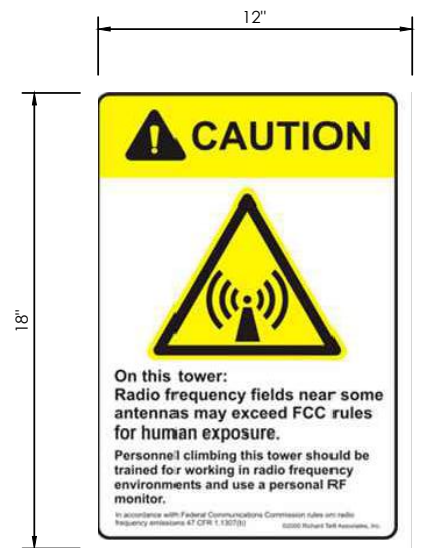
**MARKETING/ID SIGN**

24" WIDE x 18" HIGH



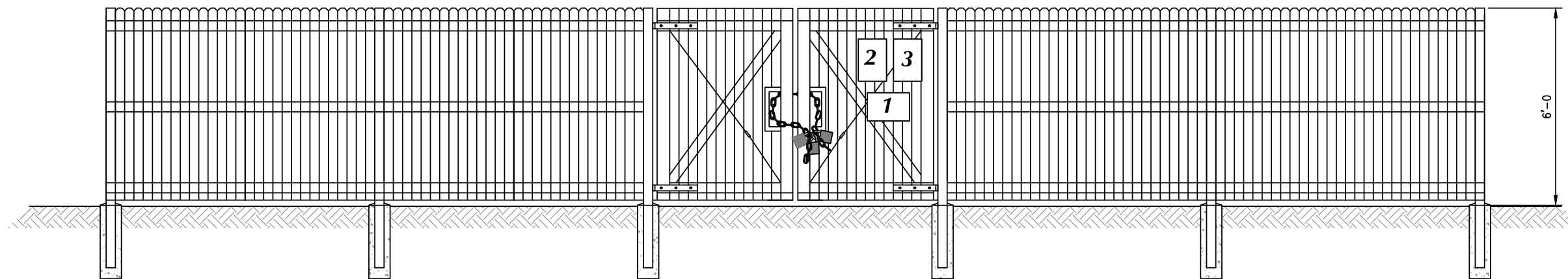
**RFE NOTICE SIGN**

12" WIDE x 18" HIGH



**RFE WARNING SIGN**

12" WIDE x 18" HIGH



**ELEVATION "A-A"**

SCALE: N.T.S.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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INDIANAPOLIS, IN 46231

COUNTY:

HENDRICKS

LATITUDE:

39° 44' 39.40" N

LONGITUDE:

86° 20' 07.56" W

SITE NUMBER:

HV1624

SHEET TITLE:

DRAWING NO.

D-5 (BTS)

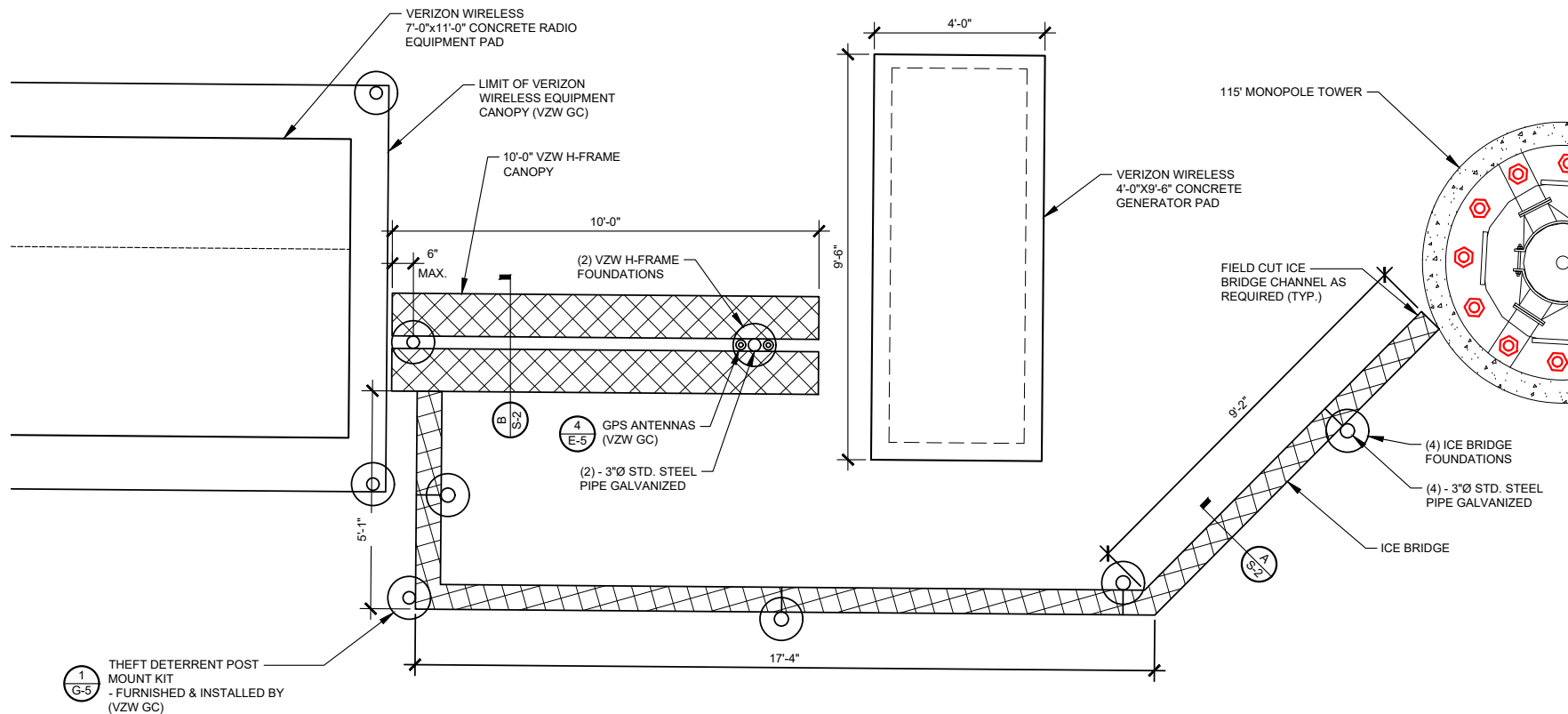
REVISION:

A

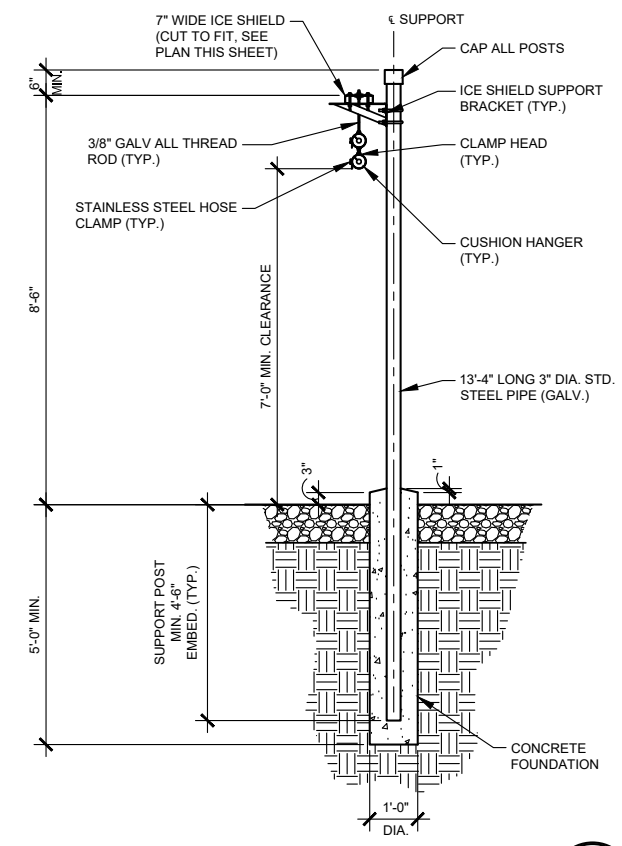
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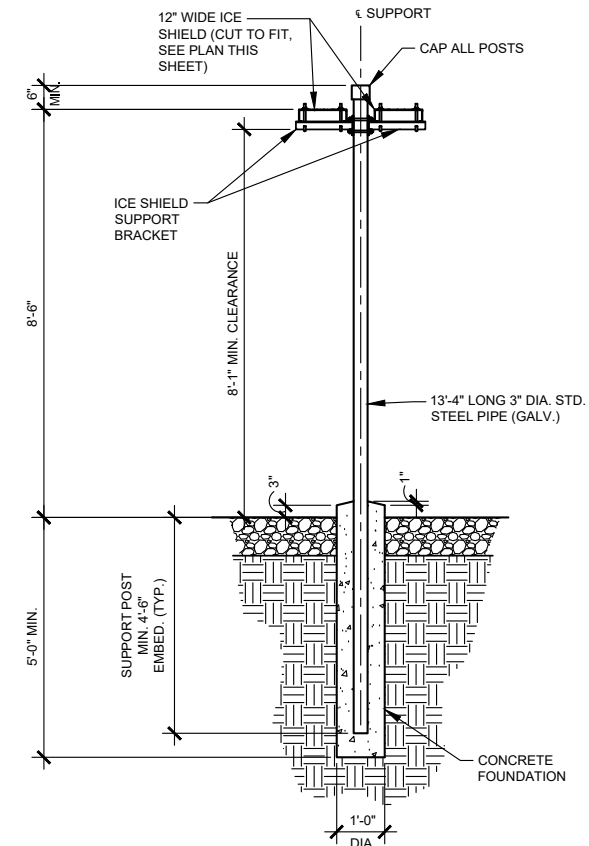
NOTE:  
CONTRACTOR MAY SUBSTITUTE 12" ICE BRIDGE FOR THE 7" SECTION TO THE TOWER IF NO ADDITIONAL COST TO VZW



**ICE BRIDGE PLAN**  
SCALE: 3/16" = 1'-0"



**ICE BRIDGE SECTION**  
SCALE: 1/4" = 1'-0"  
A  
S-2



**VZW H-FRAME CANOPY SECTION**  
SCALE: 1/4" = 1'-0"  
B  
S-2



PREPARED BY:  
**TeleCAD** Wireless  
1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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ENGINEER'S STAMP:

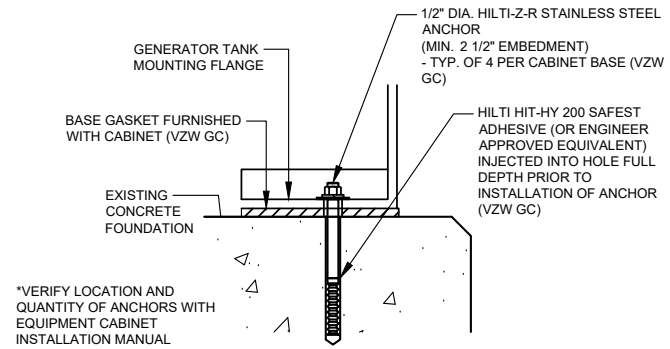
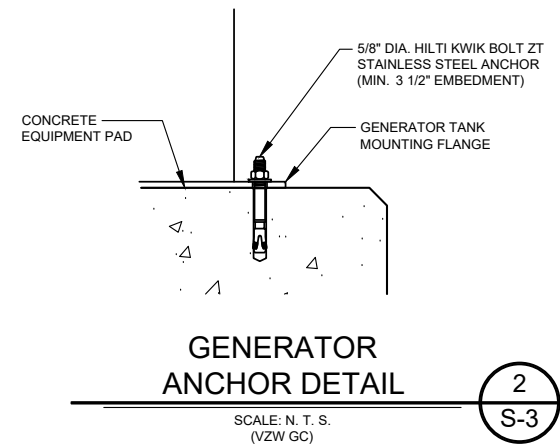
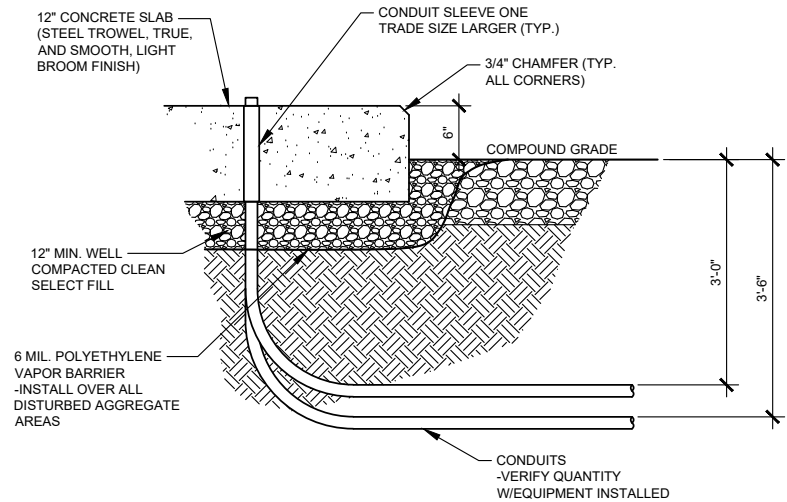
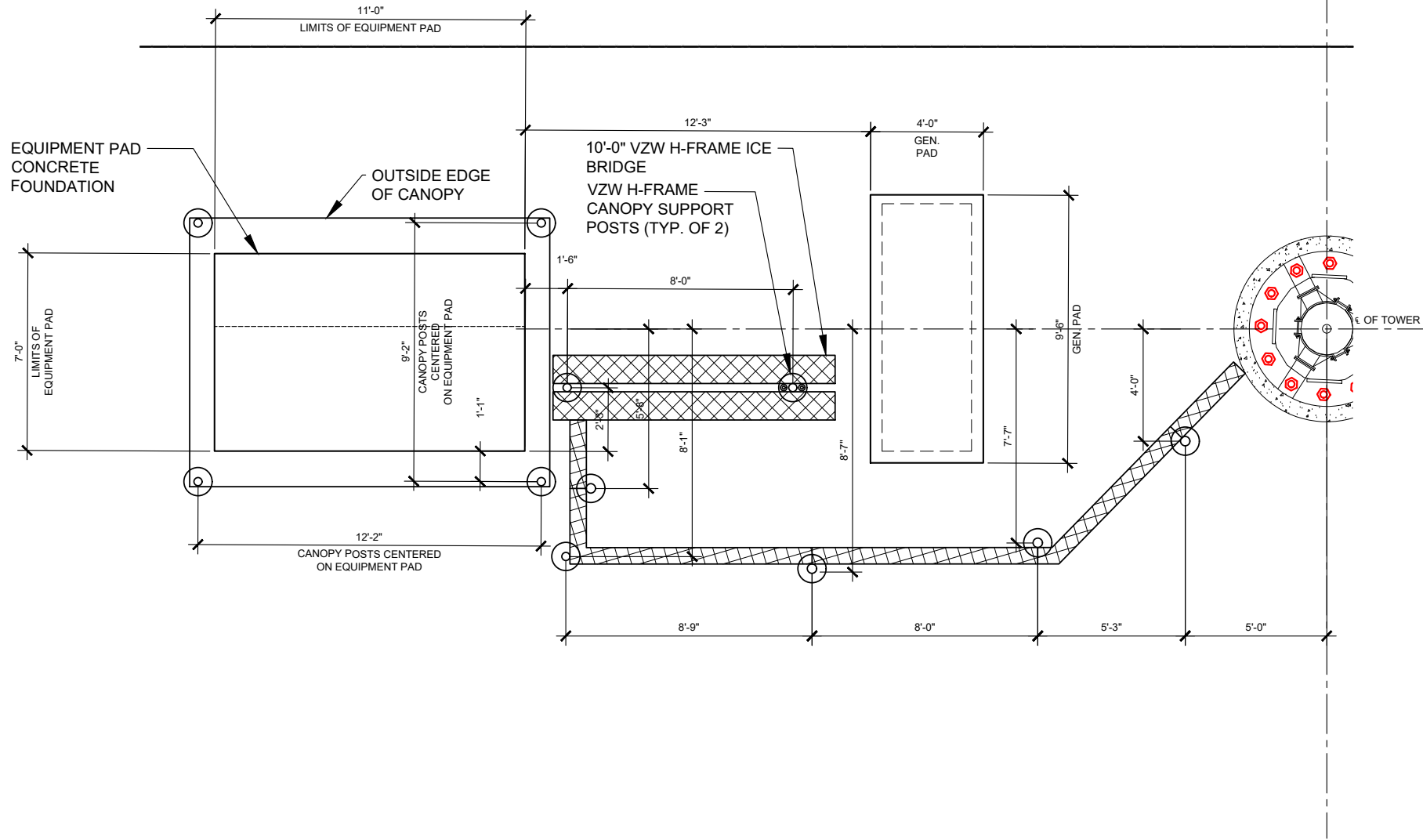
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ADDRESS:  
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INDIANAPOLIS, IN 46231**  
COUNTY:  
**HENDRICKS**  
LATITUDE:  
**39° 44' 39.40" N**  
LONGITUDE:  
**86° 20' 07.56" W**  
SITE NUMBER:  
**HV1624**

SHEET TITLE:	
DRAWING NO.	REVISION:
S-2	A

**811**  
Know what's below.  
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN MICHIGAN, CALL MISS DIG TOLL FREE: 1-800-482-7171 OR www.missdig.org  
MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE



PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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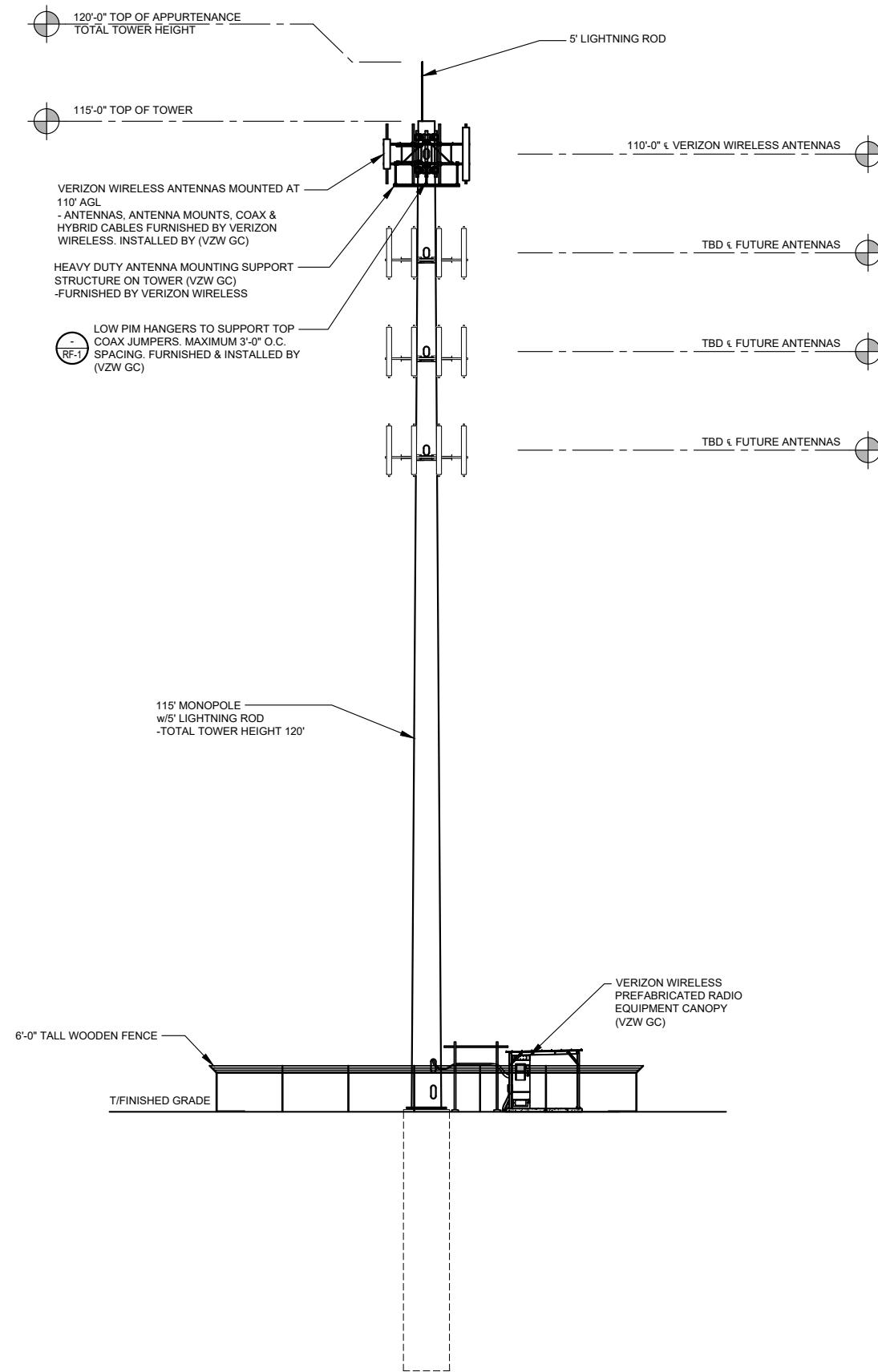
LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

SHEET TITLE:	
DRAWING NO.	REVISION:
S-3	A

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN MICHIGAN, CALL MISS DIG  
TOLL FREE: 1-800-482-7171 OR www.missdig.org  
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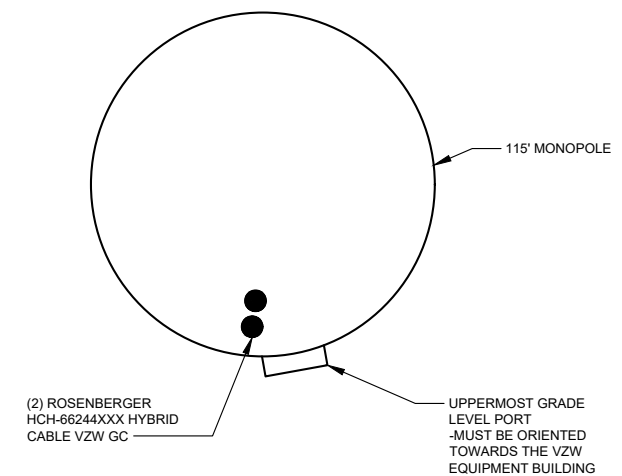


**TOWER ELEVATION**  
SCALE: N.T.S.

1  
TE-1

**NOTE:**

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY VERIZON LEGAL BUSINESS ENTITY 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.



**COAX PLAN**  
SCALE: N.T.S.



PREPARED FOR:



PREPARED BY:



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HIXSON, TN 37343  
PH: 423-843-9500  
FAX: 423-843-9509

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**HV1624**

SHEET TITLE:

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 Wireless  
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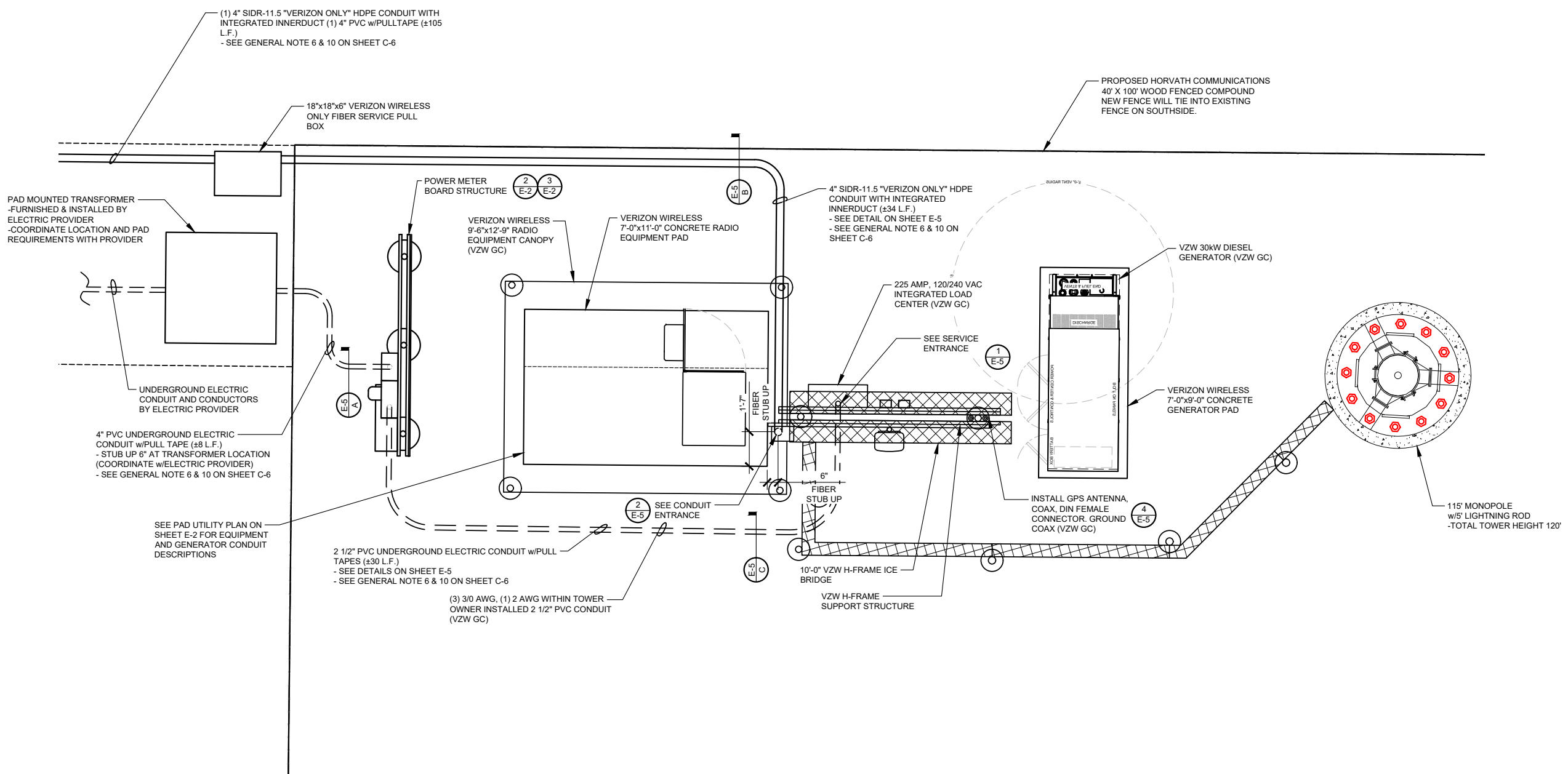
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NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

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**HV1624**

SHEET TITLE:  
 DRAWING NO. E-1  
 REVISION: A



**SITE UTILITY PLAN**  
 SCALE: N.T.S.



- ELECTRICAL NOTES:**
1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT 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.

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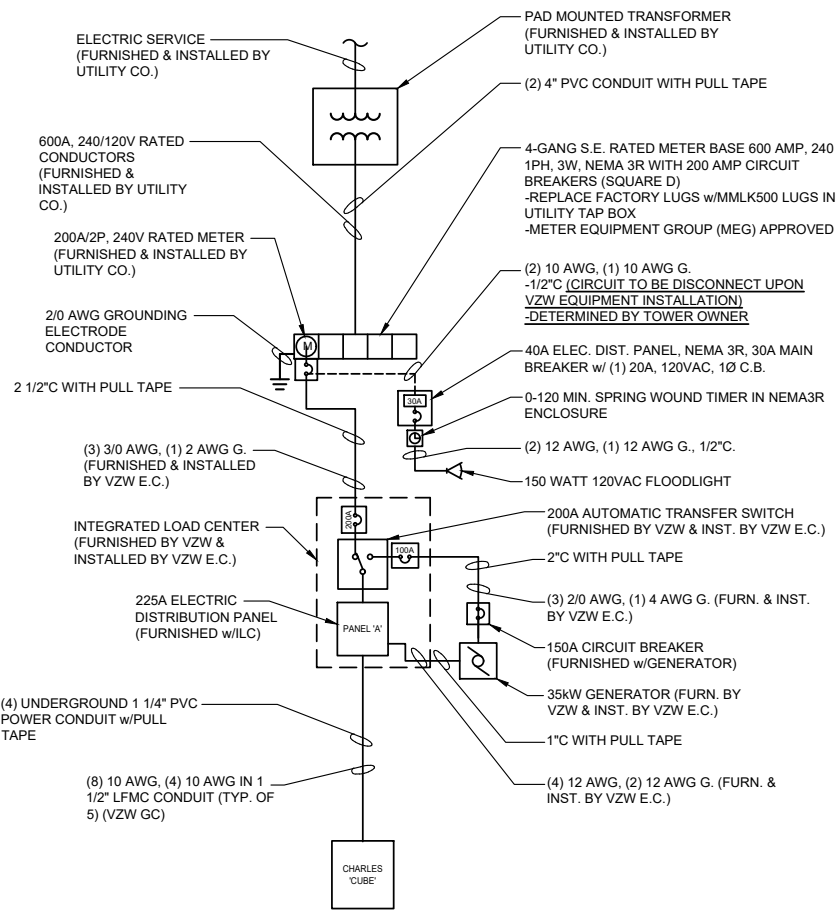
VERIZON PANEL "A" SCHEDULE						
MAIN: 225/2		VOLTAGE: 120/240		PHASE: 1		WIRE: 3
TO AUTOMATIC TRANSFER SWITCH						
DESCRIPTION	BRKR.	WATTS	S <sub>G</sub>	S <sub>N</sub>	WATTS	DESCRIPTION
RECTIFIER #1	30/2	1800	1	2	1800	RECTIFIER #2
RECTIFIER #3	30/2	1800	5	6	1800	RECTIFIER #4
RECTIFIER #5	30/2	1800	9	10	1800	RECTIFIER #6
RECTIFIER #7	30/2	1800	13	14	1800	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
GFCI RECEPTACLE (RF CABINET)	15/1	180	31	32		SPACE
GEN. BLOCK HEATER	20/1	1500	33	34	180	GFCI RECEPTACLE
CANOPY LIGHTS	15/1	126	35	36	250	GEN. BATTERY CHARGER

SURFACE MOUNTED NEMA 3R w/DOOR  
 22K AIC BREAKERS  
 (E.C. SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

NON-CONTINUOUS LOAD = 0.00 KW, 00.00 AMPS  
 CONTINUOUS LOAD = 31.04 KW X 1.25 = 38.80 KW, 161.67 AMPS  
 TOTAL CONNECTED LOAD = 38.80 KW, 161.67 AMPS

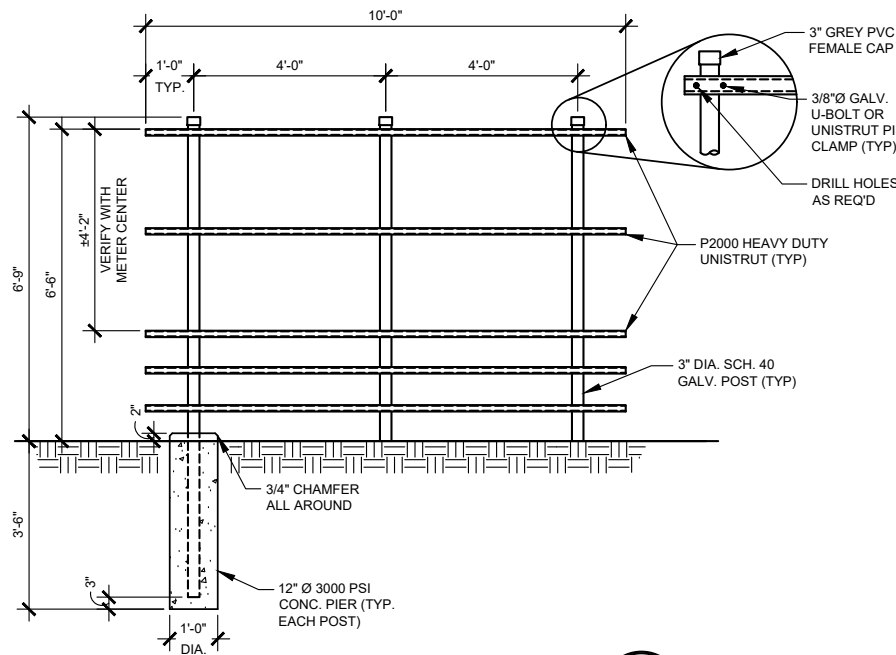
**PANEL SCHEDULE "A"**

SCALE: N.T.S.



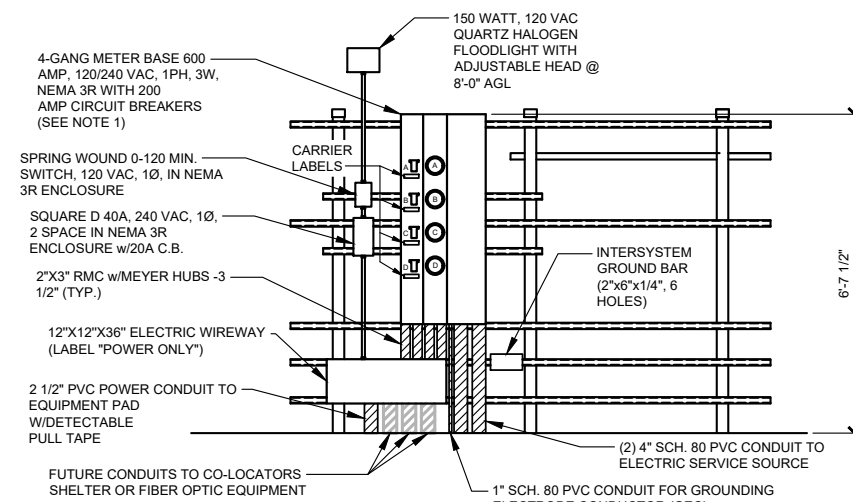
**ONE LINE DIAGRAM**

SCALE: N.T.S.



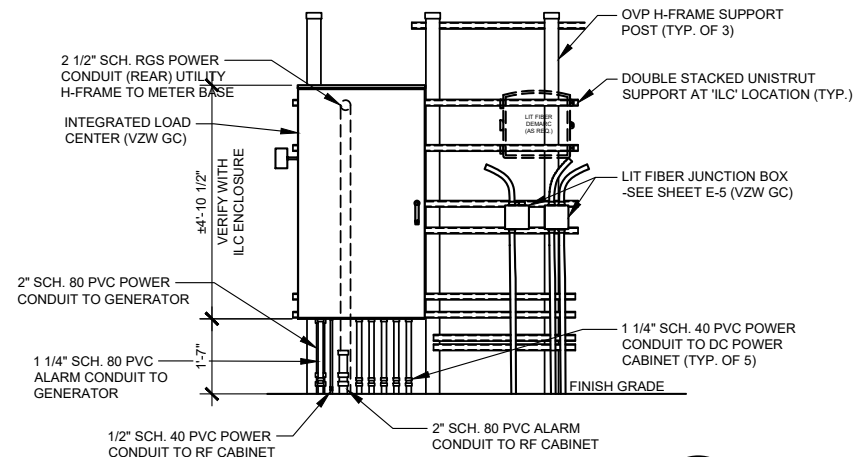
**METER BOARD STRUCTURE**

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



**METER BOARD STRUCTURE-ELECTRIC SIDE**

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



**VZW ILC MOUNTING DETAIL**

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



**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 (SCH. 80 UNDER ROADWAY) 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.
- ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 80 PVC WITH MATCHING FITTINGS UNLESS NOTED OTHERWISE.
- ALL CONDUITS SHALL BE PLACED WITH 200 LB POLYETHYLENE PULL TAPES. PULL TAPES SHALL BE SECURELY FASTENED AT EACH END OF CONDUIT. (THIS SHALL ALSO APPLY FOR ALL FIBER CONDUITS).
- PRIOR TO TRENCHING AND FOR COORDINATING OF THE FIBER AND ELECTRICAL SERVICES, SEE SHEET C-8 GENERAL NOTE #6 FOR UTILITY CONTACT NAMES & PHONE NUMBERS TO ALSO INCLUDE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
- 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 SHOWN ON PLANS AND ELECTRICAL PROVIDER DESIGN.
- 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 EQUIREMENTS.
- 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 AUTOMATIC TRANSFER SWITCH "ATS" 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.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
 FAX: 423-843-9509

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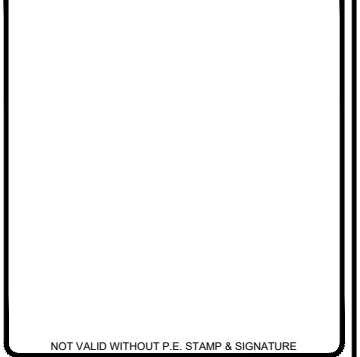
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COUNTY:

HENDRICKS

LATITUDE:

39° 44' 39.40" N

LONGITUDE:

86° 20' 07.56" W

SITE NUMBER:

HV1624

SHEET TITLE:

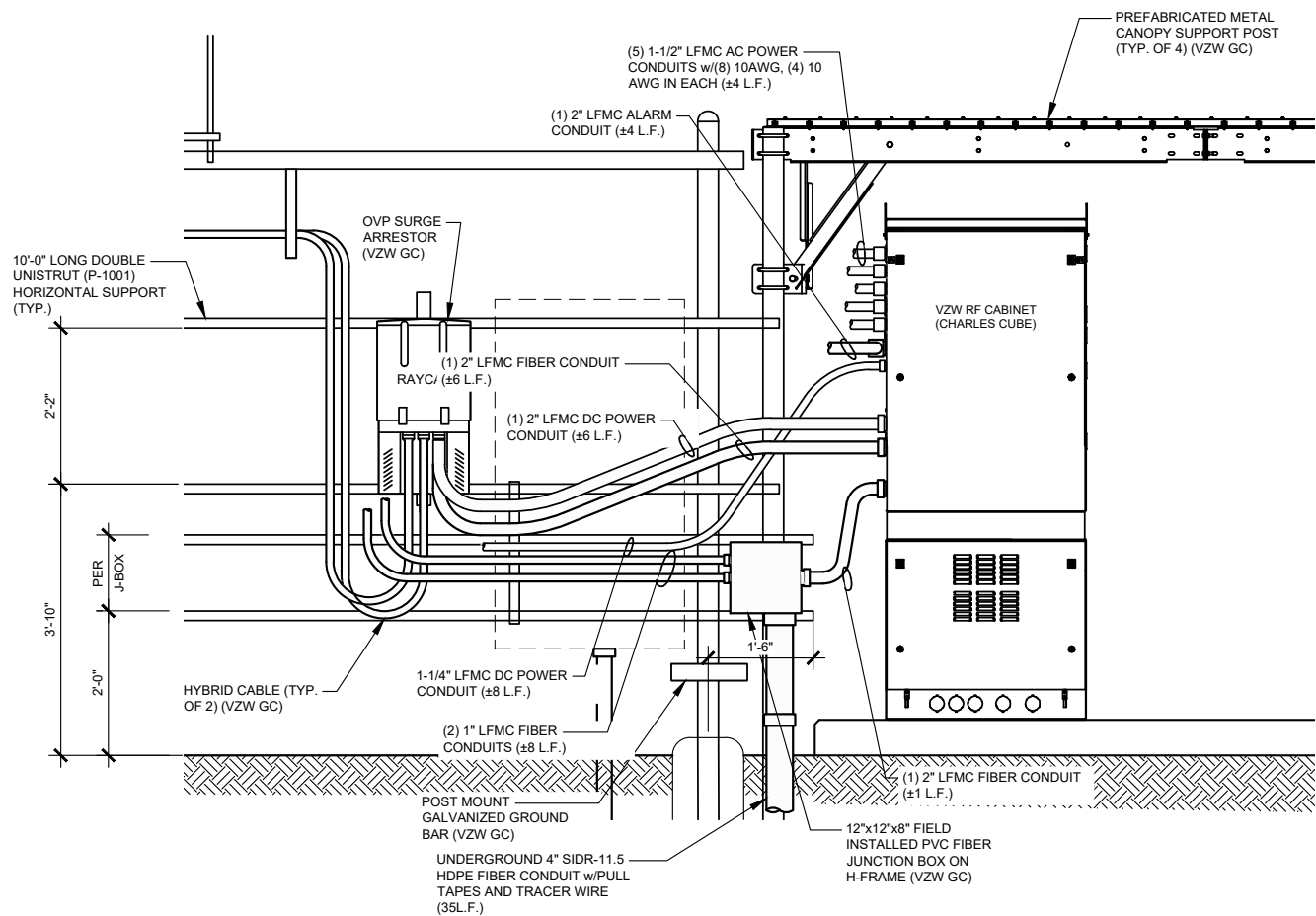
DRAWING NO.

E-2

REVISION:

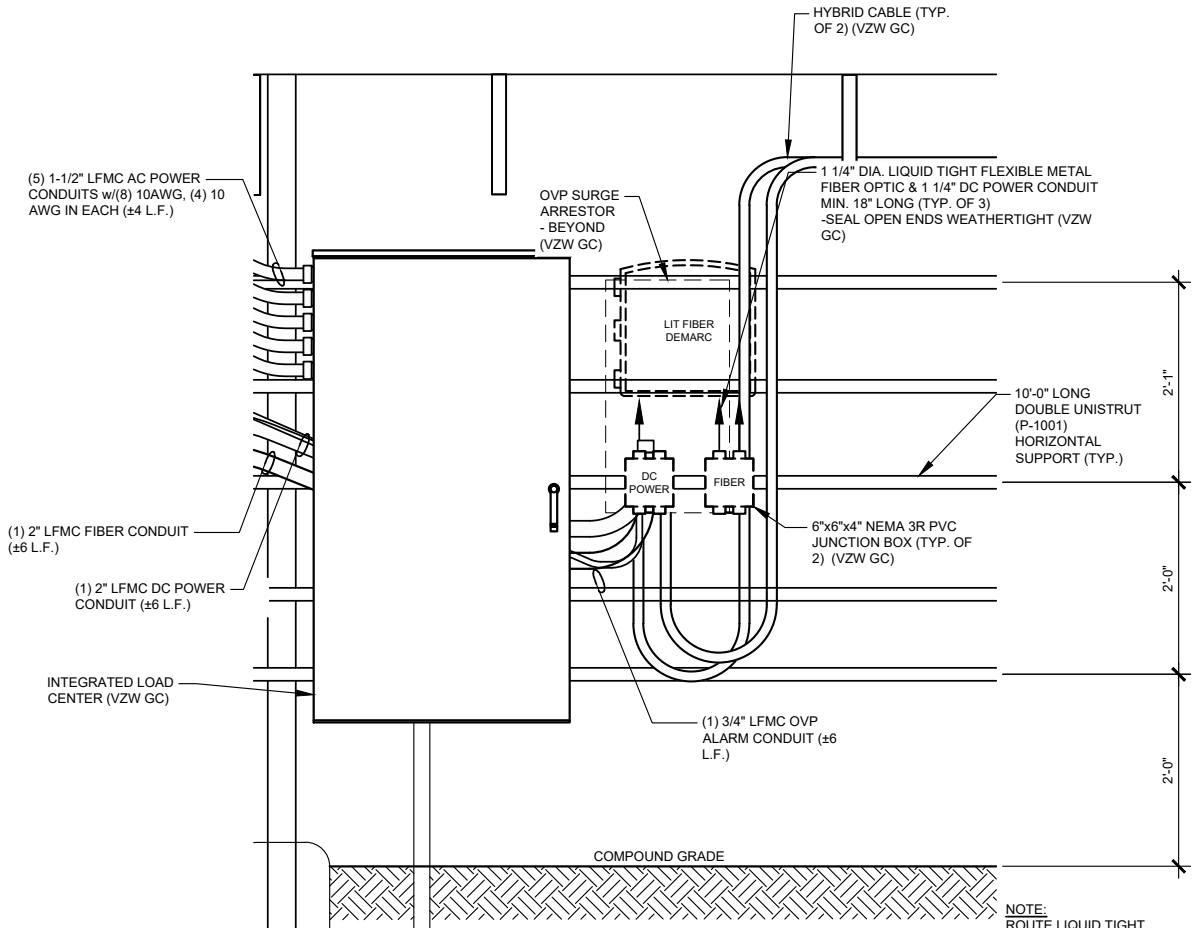
A





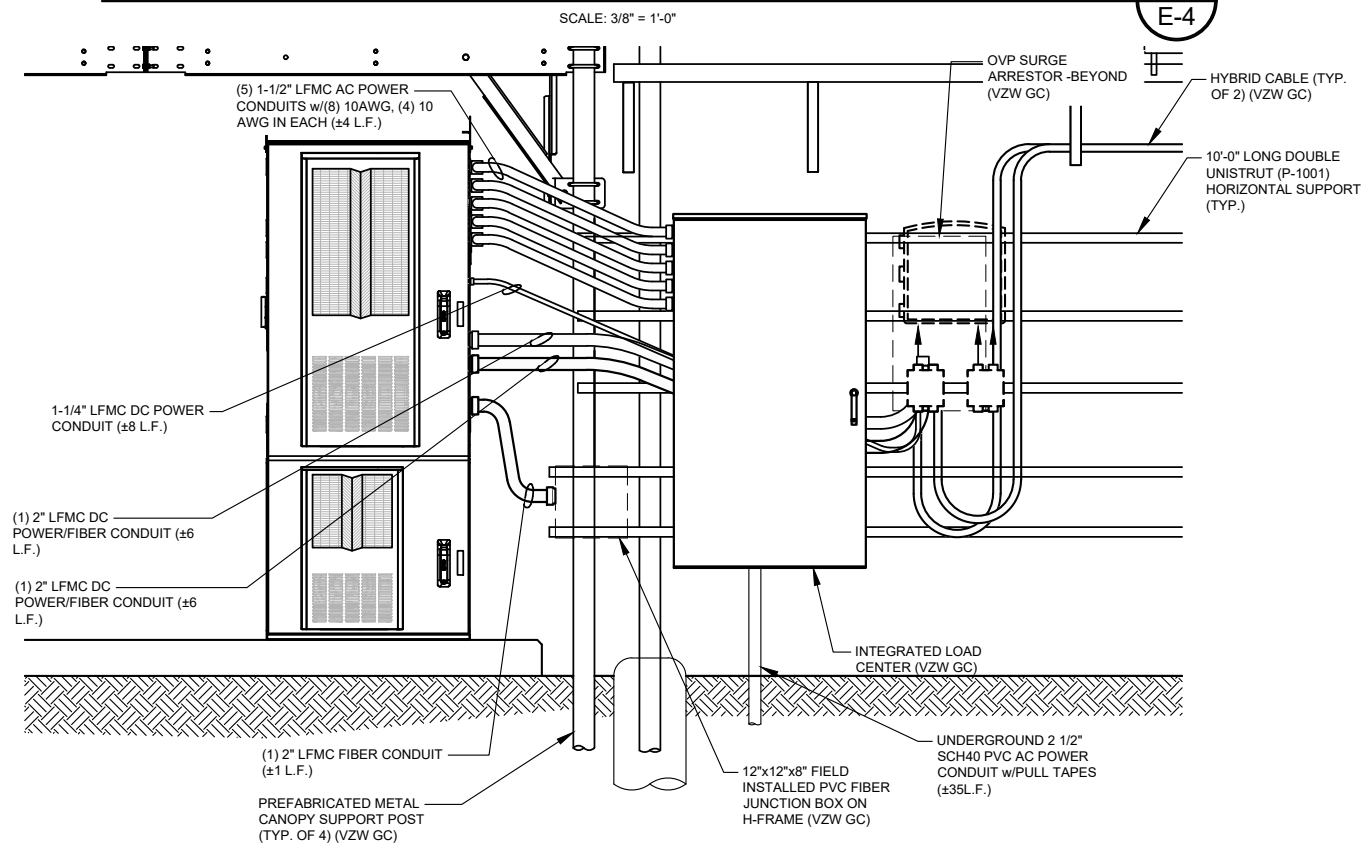
OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) - REAR

1  
E-4



ENLARGED OVP H-FRAME ELEVATION (LIT FIBER DEMARC)

3  
E-4



OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT

2  
E-4



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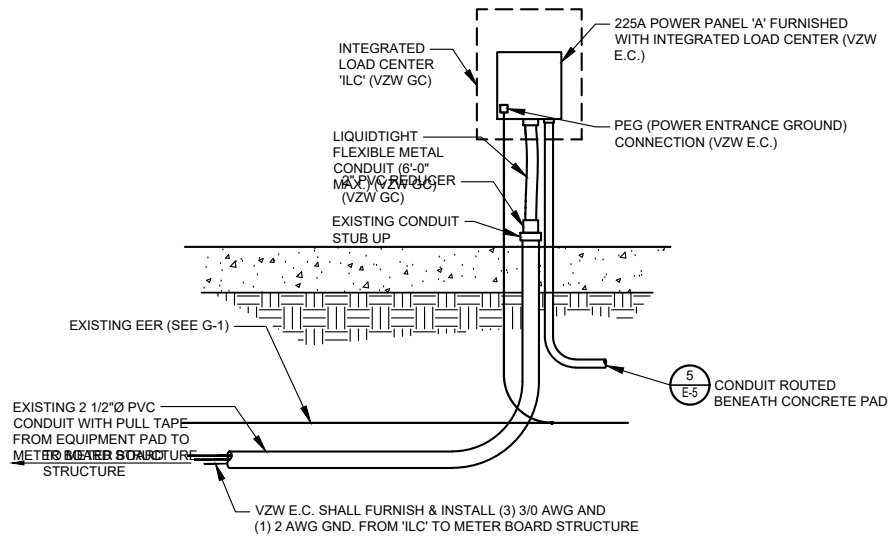
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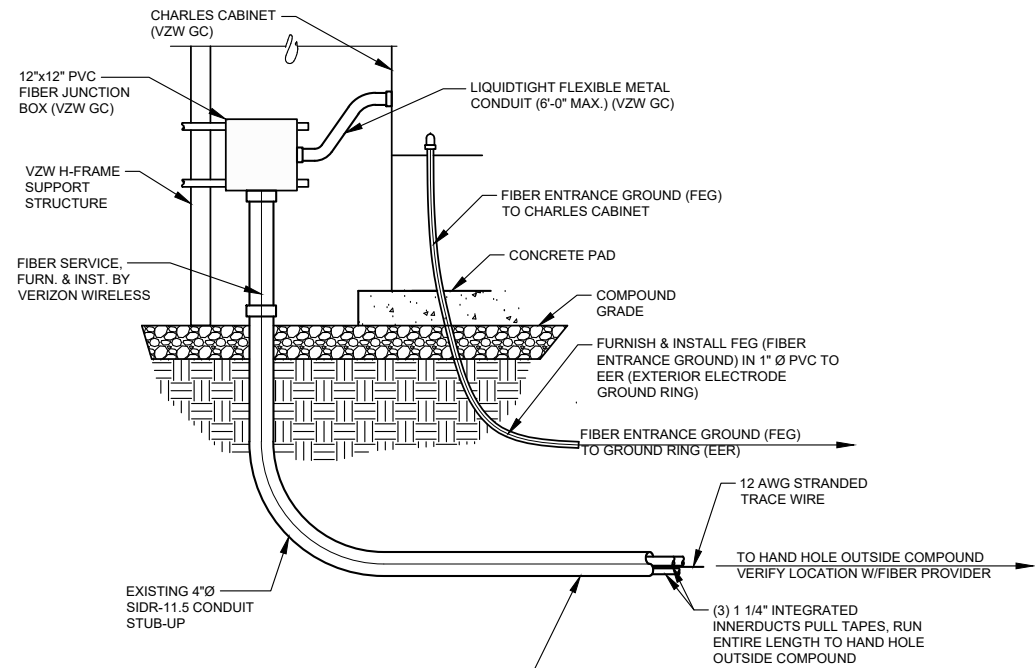
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E-4	A



**SERVICE ENTRANCE DETAIL**

SCALE: N.T.S.

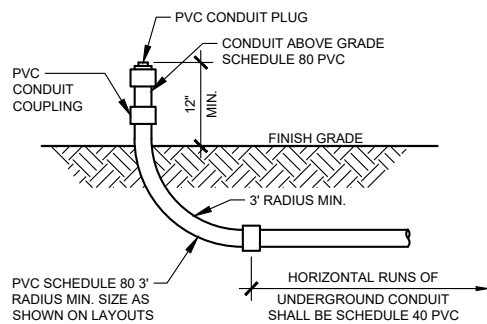
1  
E-5



**FIBER CONDUIT ENTRANCE DETAIL**

SCALE: N.T.S.

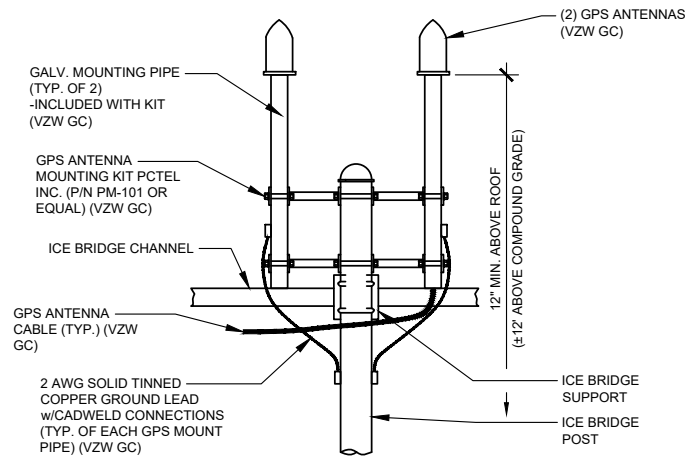
2  
E-5



**UNDERGROUND CONDUIT STUB-UP DETAIL**

SCALE: N. T. S.

3  
E-5



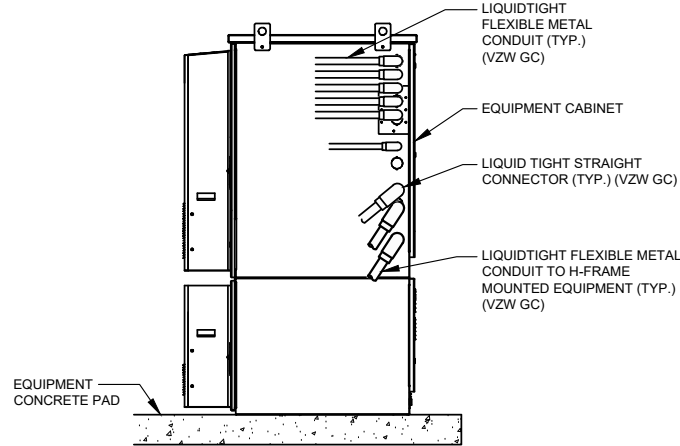
\*ALL GPS ANTENNA INSTALLATION BY VZW GC

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**

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

4  
E-5



**TYP. CABINET CONDUIT ENTRANCE DETAIL**

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

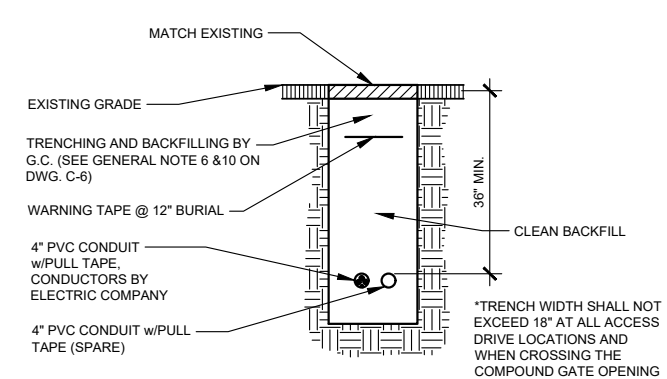
5  
E-5



**FIBER HAND HOLE PLACARD DETAIL**

SCALE: N.T.S.

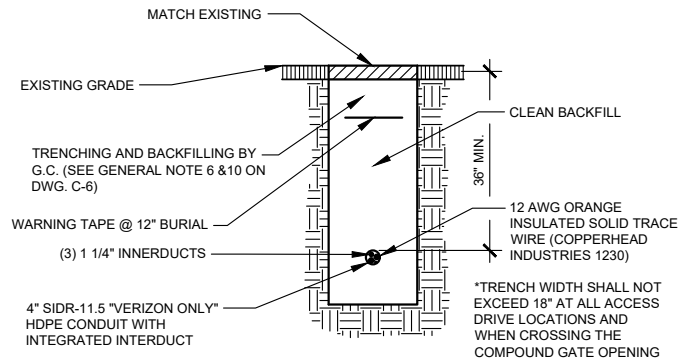
6  
E-5



**SERVICE LATERAL TRENCH SECTION DETAIL**

SCALE: N.T.S.

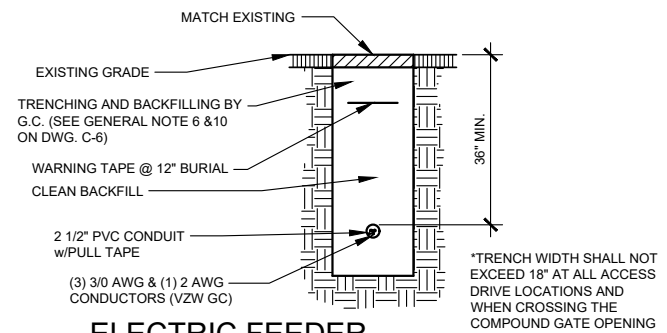
A  
E-5



**FIBER TRENCH SECTION DETAIL**

SCALE: N.T.S.

B  
E-5



**ELECTRIC FEEDER TRENCH SECTION DETAIL**

SCALE: N.T.S.

C  
E-5

PREPARED FOR:  
  
**HORVATH**  
 COMMUNICATIONS

PREPARED BY:  
  
**TeleCAD**  
 Wireless  
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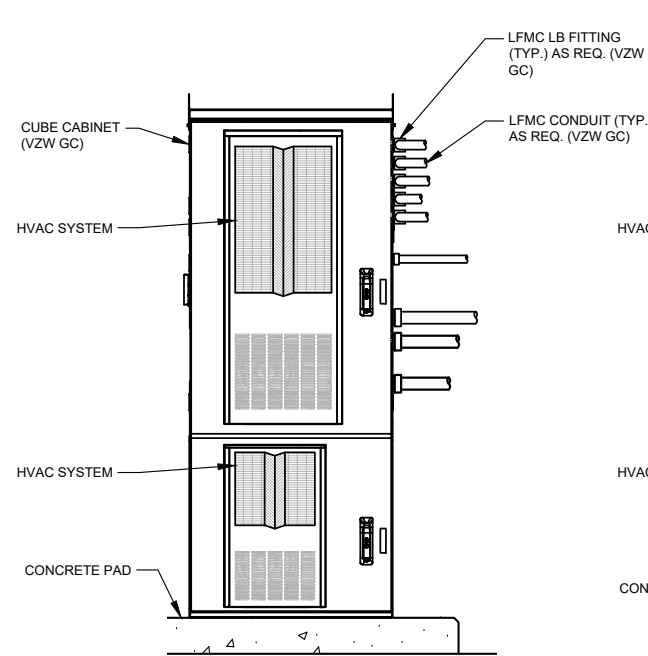
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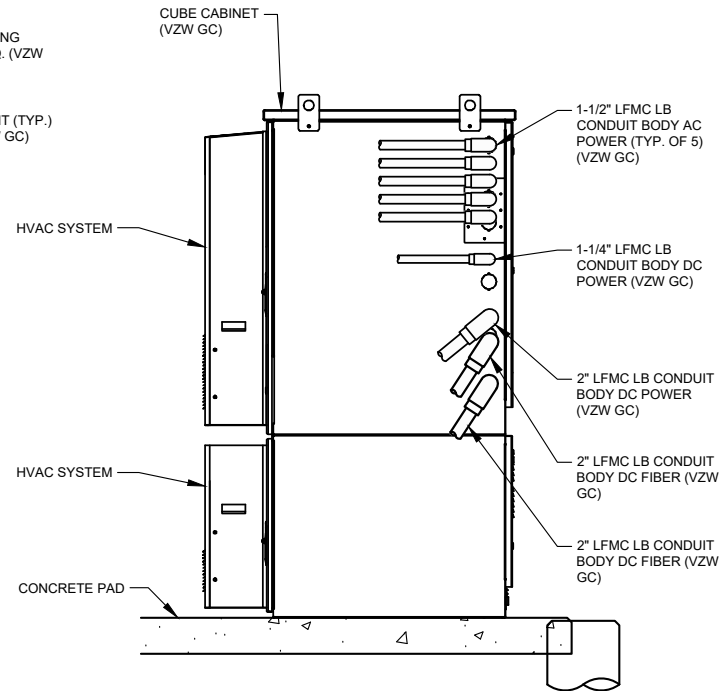
SHEET TITLE:	
DRAWING NO.	REVISION:
E-5	A



RF CABINET FRONT ELEVATION

SCALE: N.T.S.

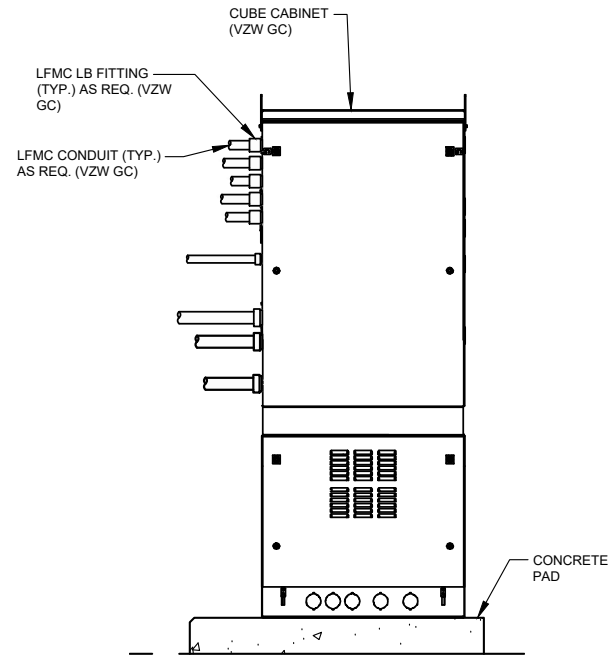
1  
E-6



RF CABINET RIGHT ELEVATION

SCALE: N.T.S.

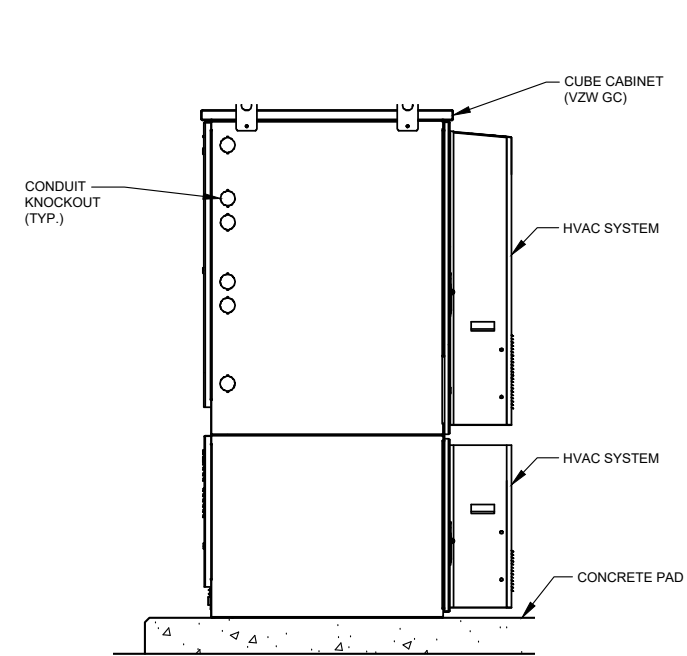
2  
E-6



RF CABINET REAR ELEVATION

SCALE: N.T.S.

3  
E-6



RF CABINET LEFT ELEVATION

SCALE: N.T.S.

4  
E-6

**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

PREPARED FOR:



PREPARED BY:



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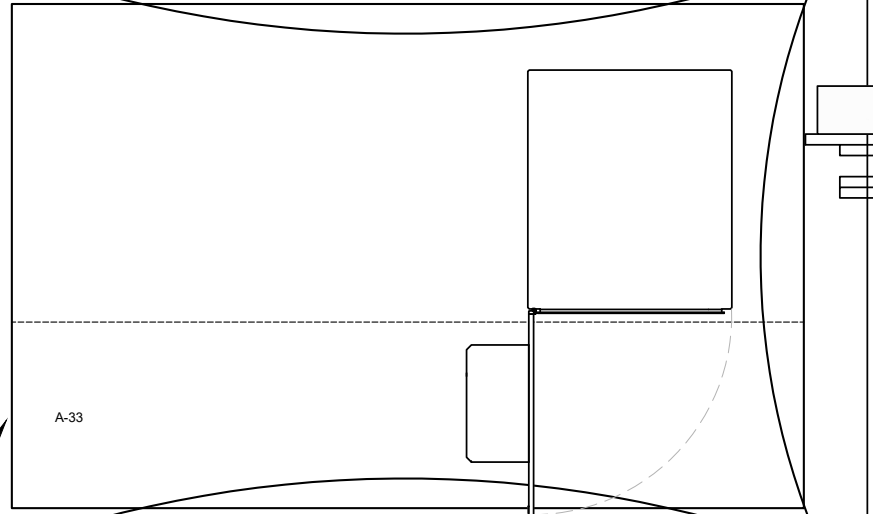
DRAWING NO.	REVISION:
E-6	A

120 VAC MOTION DETECTOR AIM TOWARDS  
COMPOUND ACCESS GATE (VZW GC)  
-WIRED INTO LIGHT CIRCUIT  
-PROVIDE MANUAL OVERRIDE  
-(1) WATTSTOPPER (P/N EW-200-120-W)

LOCAL MANUAL MOTION SENSOR  
OVERRIDE TOGGLE SWITCH w/60  
MINUTE TIMER RATED AT 15A FOR 120  
VAC IN NEMA 3R ENCLOSURE. MOUNT  
TO CANOPY SUPPORT WITH MOTION  
SENSOR (VZW GC)

(2) 12 AWG IN 1/2" EMT  
CONDUIT (TYP.) (VZW  
GC)

PREFABRICATED VZW  
METAL EQUIPMENT  
CANOPY (VZW GC)

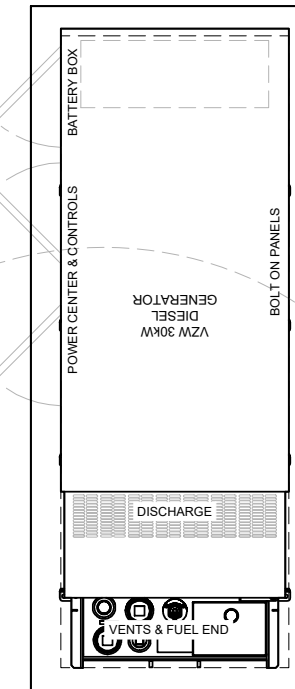


A-33

INTEGRATED LOAD  
CENTER PANEL 'A'  
(VZW GC)

120VAC LED FLOODLIGHT MOUNTED TO CANOPY FRAME.  
AIM LIGHT TOWARDS EQUIPMENT. FIXTURES SHALL BE  
CONTROLLED WITH LOCALLY MOUNTED 120 VAC MOTION  
DETECTOR (VZW GC)  
-(4) LITHONIA LIGHTING (P/N  
OFL1-LED-P1-40K-MVOLT-THK-DBXD) OR EQUAL

5'-0" VENT RADIUS



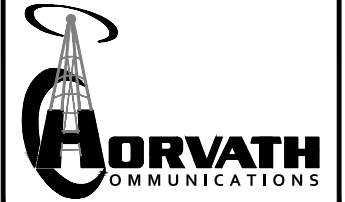
EQUIPMENT PAD LIGHTING  
PLAN

SCALE: N.T.S.

1  
E-7



PREPARED FOR:



PREPARED BY:



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LONGITUDE:

86° 20' 07.56" W

SITE NUMBER:

HV1624

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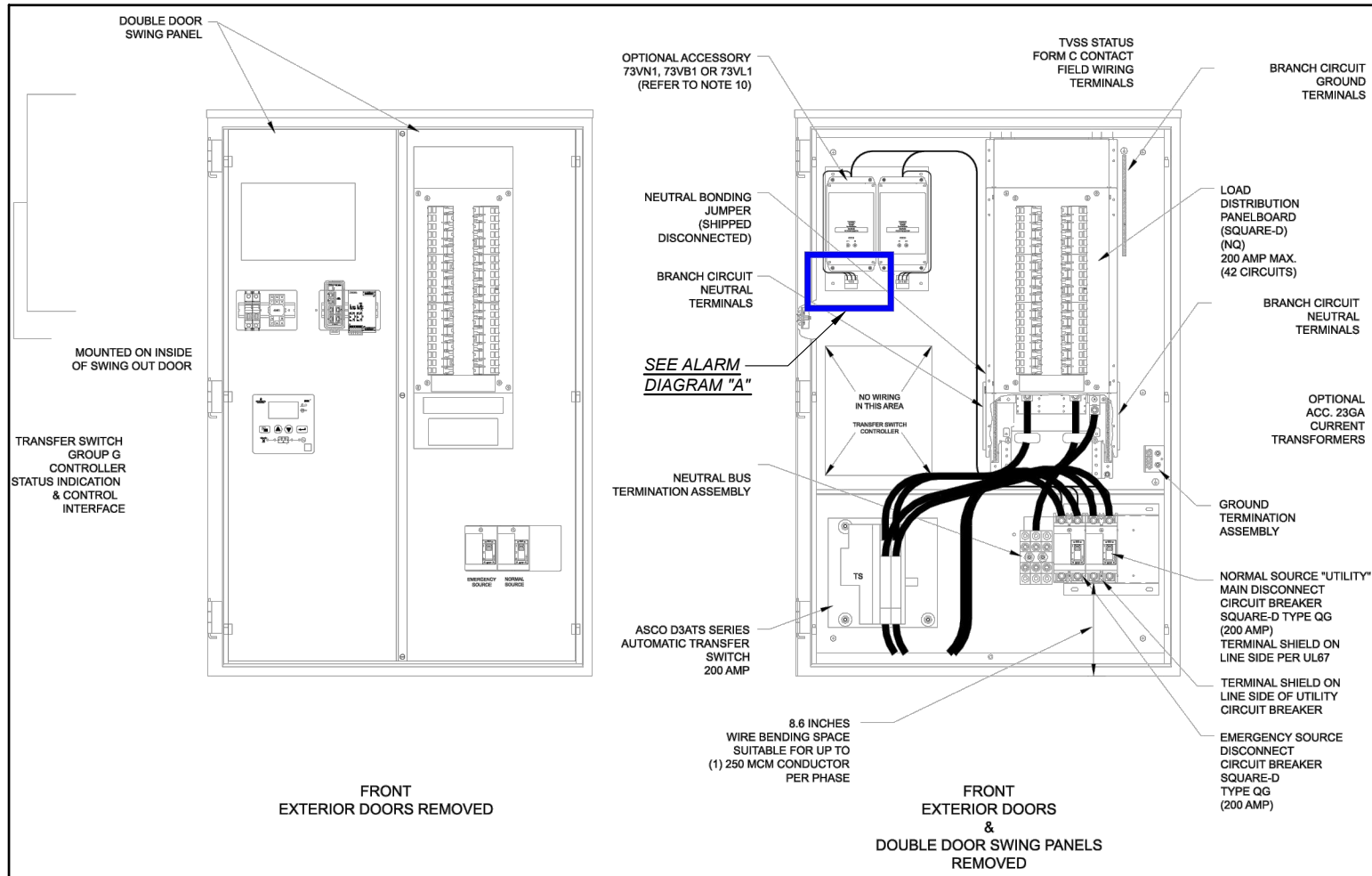
Alarm wiring table								
RMX - 4000 Wiring Install on right side of panel when facing front of panel				Misc Wiring - left side of panel				
Alarm block Pos	Wire color	Alarm	RMX-4000	Wire Color	Wire Color	Alarm	Conn/Pos	
1	White/Orange	Door Intrusion	1-4	White or Blue	Orange	Intrusion Alarm		
2	Orange				White/Orange			
3	White/Green				N/A			
4	Green	Commercial Power Failure	1-4	White or Blue	N/A	N/A		
5	White/Blue				N/A			
6	Blue	Surge Suppressor Lightning Arrestor	1-4	White or Blue	N/A	N/A		
7	White/Brown				N/A			
8	Brown	Rectifier Failure	1-4	White or Blue	Green/White	Rectifier Failure	J4 Pos 8	
9	White/Orange				Red/Green			
10	Orange	Multiple Rectifier Failure	5-8	Red or Blue	White/Red	Multiple Rectifier Failure	J4 Pos 9	
11	White/Green				Red/White			
12	Green	Battery Discharge	5-8	Red or Blue	White	Battery Discharge	J4 Pos 4	
13	White/Blue				White/Black			
14	Blue	Low Voltage	5-8	Red or Blue	Black	Low Voltage	J4 Pos 5	
15	White/Brown				Black/White			
16	Brown	DC Power Failure	5-8	Red or Blue	Blue/White	Fuse	J4 Pos 6	
17	White/Orange				Red/Black			
18	Orange	Generator Running	9-12	Black or Blue	N/A	N/A		
19	White/Green				N/A			
20	Green	Generator Low Fuel	9-12	Black or Blue	N/A	N/A		
21	White/Blue				N/A			
22	Blue	Generator Failure	9-12	Black or Blue	N/A	N/A		
23	White/Brown				N/A			
24	Brown	HVAC Failure	9-12	Black or Blue	Black	HVAC Failure		
25	White/Orange				White/Blue			
26	Orange	High Temp	13-16	Yellow or Blue	Green	Overheat Alarm		
27	White/Green				White/Green			
28	Green	Low Temp	13-16	Yellow or Blue	N/A	N/A		
29	White/Blue				N/A			
30	Blue	Tower Light	13-16	Yellow or Blue	N/A	N/A		
31	White/Brown				N/A			
32	Brown	Tower Light Side	13-16	Yellow or Blue	N/A	N/A		
33	White/Orange				N/A			
34	Orange	RRH Upconverter Failure	17-20	Violet or Blue	White/Blue	RRH Upconverter Failure		
35	White/Green				Blue			
36	Green	RRH Power Failure	17-20	Violet or Blue	N/A	N/A		
37	White/Blue				N/A			
38	Blue	RRH High Humidity	17-20	Violet or Blue	N/A	N/A		
39	White/Brown				N/A			
40	Brown	RRH Intrusion	17-20	Violet or Blue	N/A	N/A		
41	White/Orange				N/A			
42	Orange	Smoke Fire	21-24	Blue	N/A	N/A		
43	White/Green				N/A			
44	Green	Bus Bar Theft	21-24	Blue	N/A	N/A		
45	White/Blue				N/A			
46	Blue	N/A	21-24	Blue	N/A	N/A		
47	White/Brown				N/A			
48	Brown	N/A	21-24	Blue	N/A	N/A		
49	White/Orange				N/A			
50	Orange	Microwave Critical	25-28	Orange or Blue	N/A	N/A		
51	White/Green				N/A			
52	Green	Microwave Major	25-28	Orange or Blue	N/A	N/A		
53	White/Blue				N/A			
54	Blue	Dehydrator Alarm	25-28	Orange or Blue	N/A	N/A		
55	White/Brown				N/A			
56	Brown	Fire Suppression Discharge	25-28	Orange or Blue	N/A	N/A		
57	White/Orange				N/A			
58	Orange	Fire Suppression Trouble	29-32	Green or Blue	N/A	N/A		
59	White/Green				N/A			
60	Green	Secondary HVAC Running	29-32	Green or Blue	N/A	N/A		
61	White/Blue				N/A			
62	Blue	Explosive gas	29-32	Green or Blue	N/A	N/A		
63	White/Brown				N/A			
64	Brown	High Humidity	29-32	Green or Blue	N/A	N/A		
65-84	N/A				N/A		N/A	N/A

**ALARM WIRING TABLE**

SCALE: N.T.S.

1

E-8

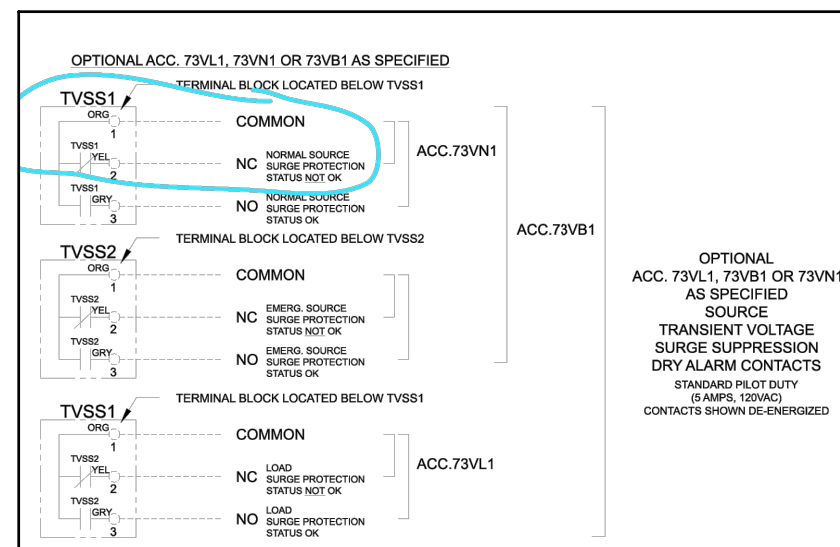


**INTEGRATED LOAD CENTER DETAIL**

SCALE: N.T.S.

2

E-8



NOTE:  
1. VERIZON WIRELESS STANDARD  
ALARM CONTACT NORMALLY CLOSED

**ALARM DIAGRAM "A"**

SCALE: N.T.S.

A

E-8

PREPARED FOR:



PREPARED BY:



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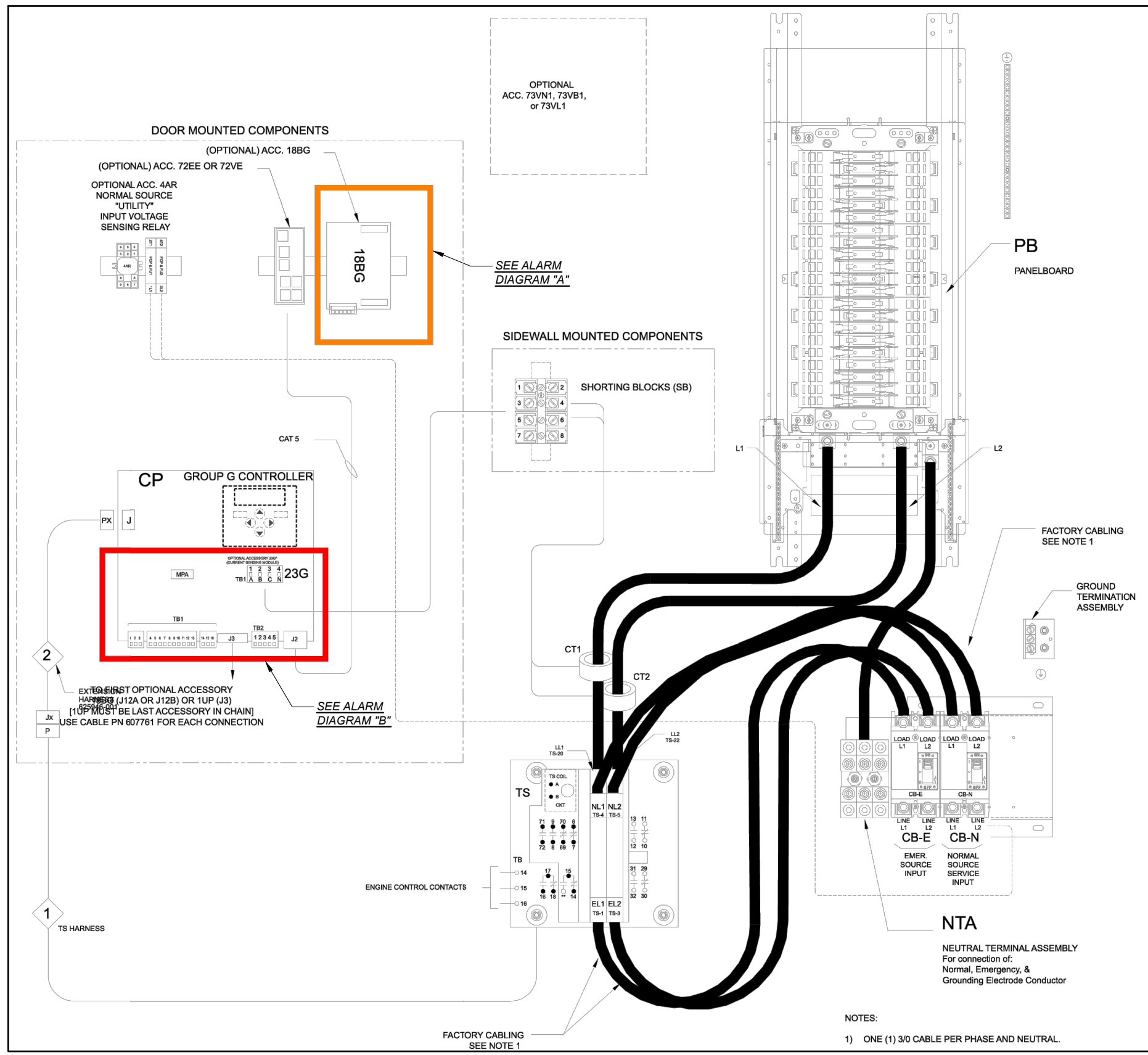
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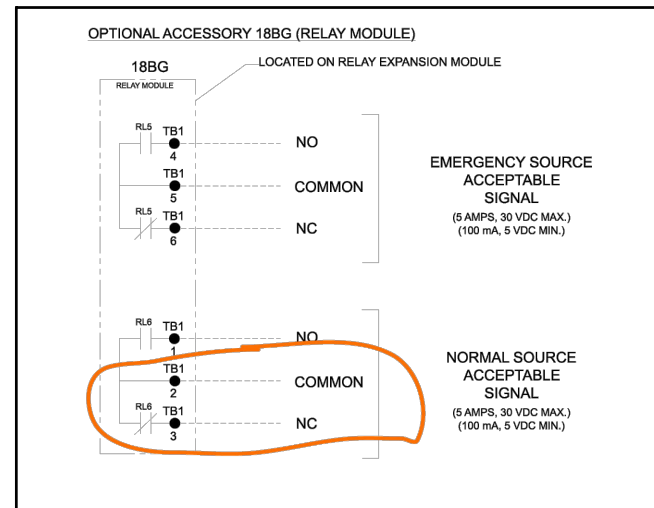
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**INTEGRATED LOAD CENTER DETAIL**

SCALE: N.T.S.

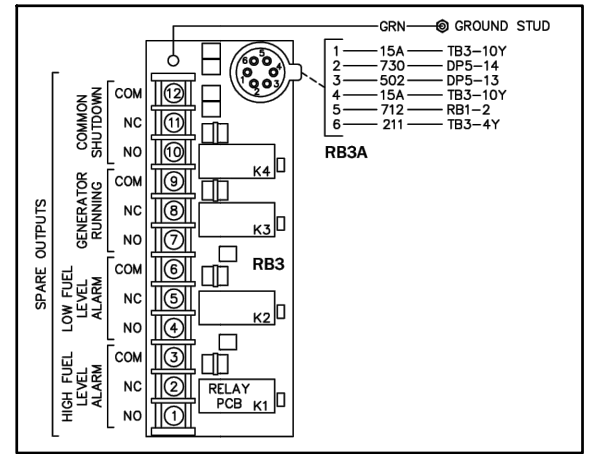
1 E-9



**ALARM DIAGRAM "A"**

SCALE: N.T.S.

A E-9



**ALARM DIAGRAM "B"**

SCALE: N.T.S.

B E-9



PREPARED BY:

**TeleCAD Wireless**

1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
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 CHECKED BY: DS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

ENGINEER'S STAMP:

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:  
**HUNTWICK REAGAN PKWY**

ADDRESS:  
 1201 S COUNTY ROAD 1050 EAST  
 INDIANAPOLIS, IN 46231

COUNTY:  
**HENDRICKS**

LATITUDE:  
 39° 44' 39.40" N

LONGITUDE:  
 86° 20' 07.56" W

SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. REVISION:  
 E-9 A

Scope and test fibers.  
Install fibers

Label each end of fibers per label template. Labels should be the same on each end of fiber. Labels should be installed 3-4 inches from end of fiber.

Route fibers out the backside of fiber tray. Separate fibers into Alpha, Beta, and Gamma. Route fibers out of fiber tray as shown.

Route fibers **UNDER** the 6630/6648 Shelf #1 to front side of the cabinet

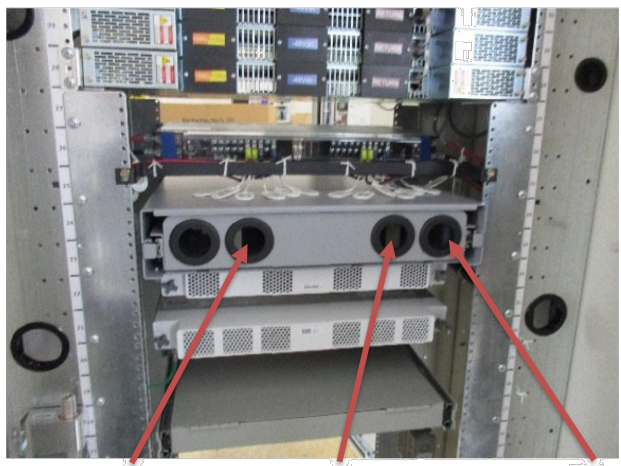
**Note: Only install/label Module #4 if fibers are provided.**

**Note: Only install Aqua fibers if instructed by a supervisor. Otherwise ship loose**

**Label Template**

**Updated template**

4449 ALPHA	4449 BETA	4449 GAMMA	8843 ALPHA	8843 BETA	8843 GAMMA
6449 ALPHA LINK 1	6449 ALPHA LINK 2	6449 BETA LINK 1	6449 BETA LINK 2	6449 GAMMA LINK 1	6449 GAMMA LINK 2
4408 ALPHA	4408 BETA	4408 GAMMA			



Gamma fibers      Beta fibers      Alpha fibers

Aqua Fibers if installed- label each end the same  
Fiber 1  
Fiber 2  
Fiber 3

FIBER ROUTING DETAIL 1  
SCALE: N.T.S. E-10

**Alarm wiring for Cabinet**

Remove old alarm block and install new panel DRP4722SW

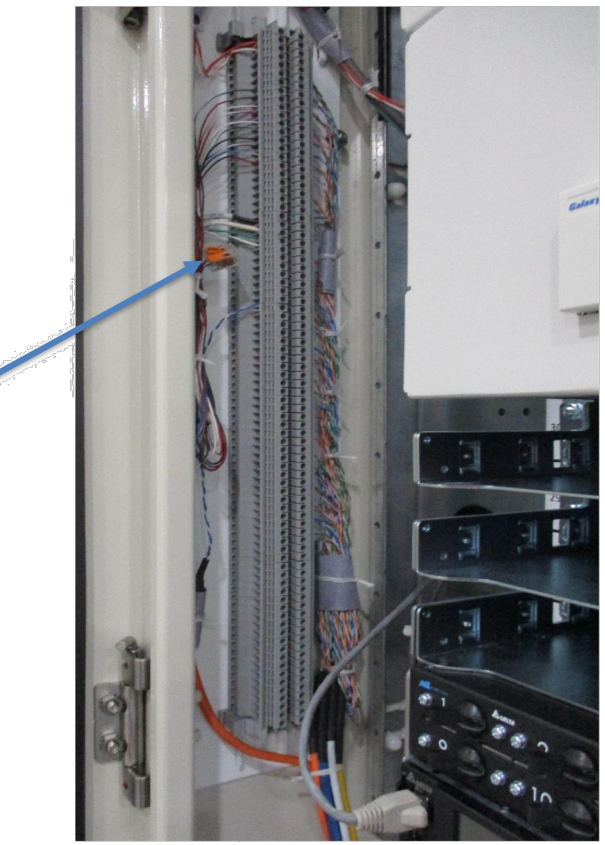
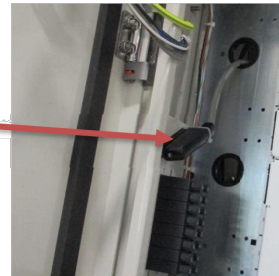
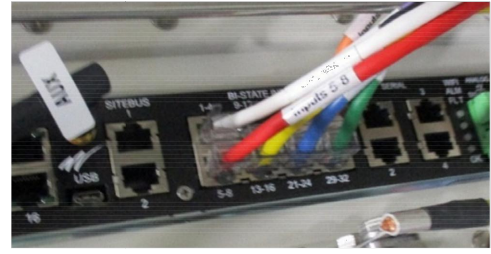
Route wiring from RMX4000 to alarm panel. Wiring will be various colors or all blue as shown

If connector is connected to old alarm block, remove connector and wire to alarm panel

**Note: See wiring table on next page**

**Place alarm block label template on door**

**Jumper Office Alarm cable wires. Connector J4 position 16 (Blue/Red) and position 10 (Black/red)**



prov  
visua

ALARM WIRING CONNECTIONS 2  
SCALE: N.T.S. E-10



PREPARED BY:

**TeleCAD**  
Wireless

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
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INDIANAPOLIS, IN 46231

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**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. <b>E-10</b>	REVISION: <b>A</b>
----------------------------	-----------------------



PREPARED BY:  
**TeleCAD**  
 Wireless  
 1961 NORTHPOINT BLVD, SUITE 130  
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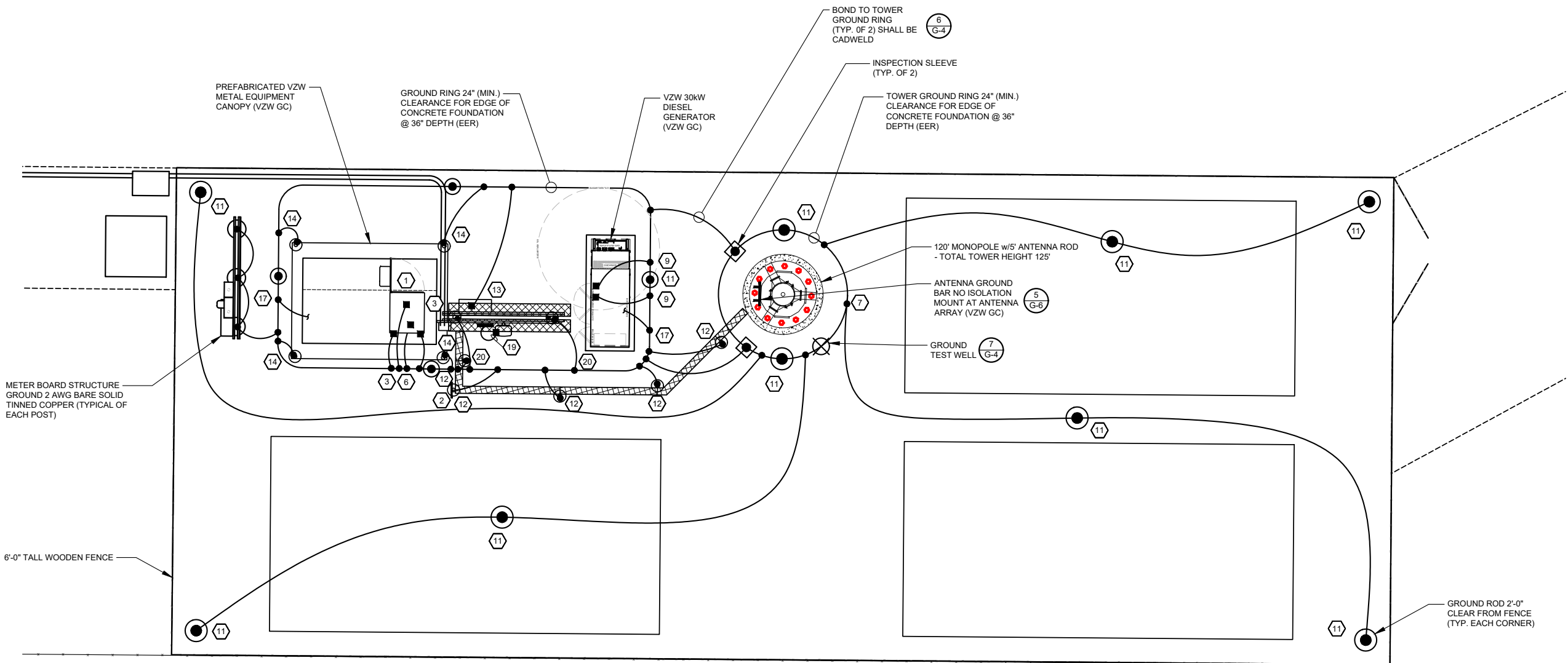
DRAWN BY: MJB  
 CHECKED BY: DS

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NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

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 SITE NUMBER:  
**HV1624**

SHEET TITLE:  
  
 DRAWING NO. REVISION:  
**G-1 A**



- NOTES:  
 1. ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.  
 2. COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.  
 3. 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) CEPSPG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSPG POST TO (EER). 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). 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) DETAIL NOT USED
- 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: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE GENERATOR ENCLOSURE TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. \*GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY
- 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). CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-1 FOR ICE BRIDGE POST LOCATIONS.
- 13) PEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'LC' GROUND BAR TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 14) 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.
- 15) 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.
- 16) TWG: BY VZW E.C.
- 17) UG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE (UFER GROUND) FOR PAD 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.
- 18) OGA: BY VZW E.C.
- 19) OGL: BY VZW E.C.
- 20) OHG: FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). (TYP. OF 2 POSTS). CONNECTION (EER) SHALL BE CADWELD.
- 21) GPSG: BY VZW E.C.

## TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE TOWER OWNER E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE TOWER OWNER 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.
2. THE TOWER OWNER 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).
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 TOWER OWNER E.C. SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE TOWER OWNER E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE TOWER OWNER 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 TOWER OWNER E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE TOWER OWNER E.C. SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE TOWER OWNER E.C. 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. 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.
10. 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.

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
GEC	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GPSG	GPS ANTENNA MOUNT 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 ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
	CABLE TO CABLE CADWELD CONNECTION
	CABLE TO GND. ROD CADWELD CONNECTION
	TEST WELL
	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
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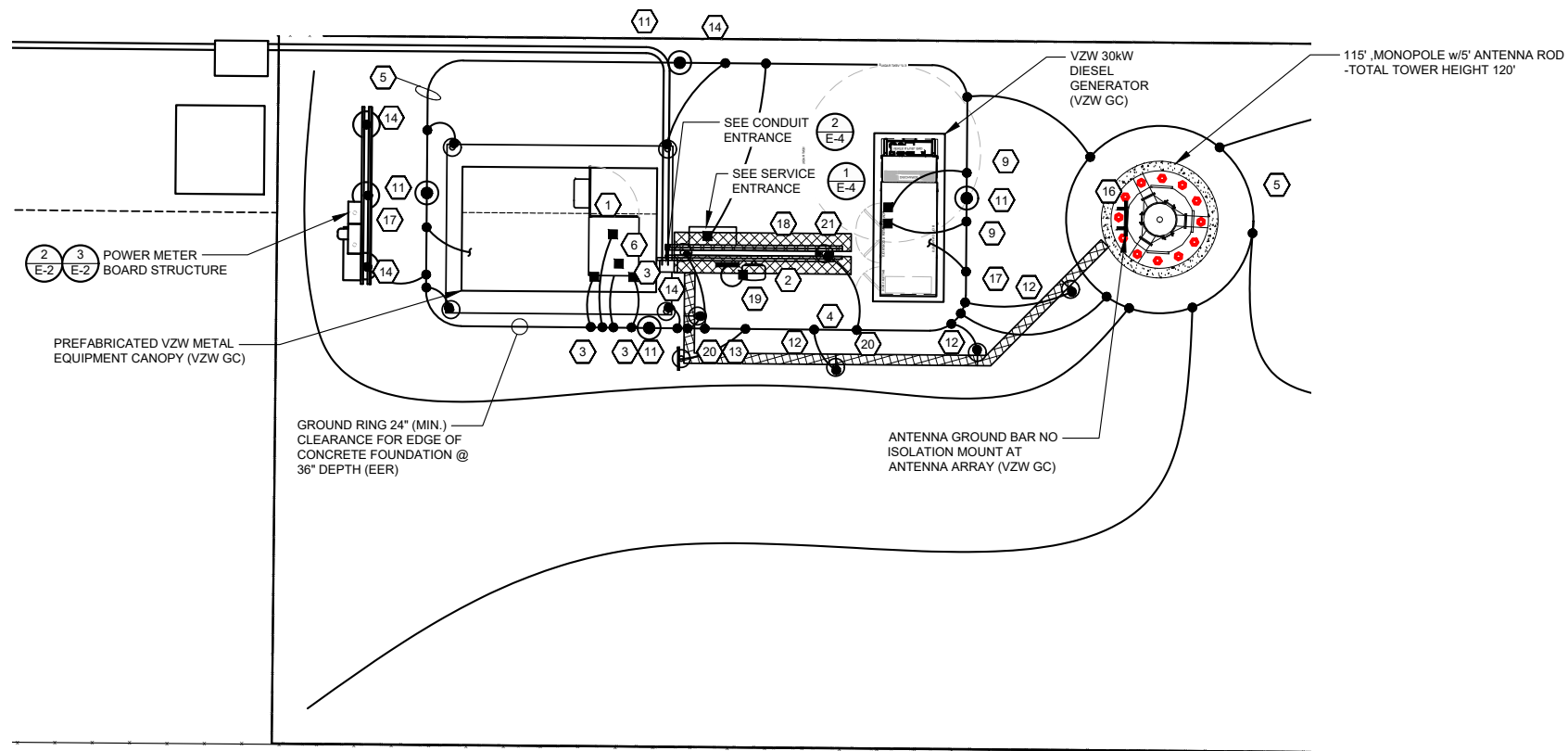
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SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. <b>G-2</b>	REVISION: <b>A</b>
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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
GEC	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GPSG	GPS ANTENNA MOUNT 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 ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
	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

- |        |  |       |  |
|--------|--|-------|--|
| 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.  | GG:   | BY TOWER OWNER E.C.  |
| 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. | GRE:  | BY TOWER OWNER E.C.  |
| 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 ANTI-OXIDANT COMPOUND BETWEEN METAL AND WASHER. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. DETAIL 3 ON SHEET G-5 FOR DETAILS.                                  | IBSG: | BY TOWER OWNER E.C.  |
| CSG:   | BY TOWER OWNER E.C.  | 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.                                       |
| EER:   | BY TOWER OWNER E.C.  | 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. |
| 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.   | TBG:  | BY TOWER OWNER E.C.  |
| FG:    | BY TOWER OWNER E.C.  | TWG:  | VZW E.C. SHALL FURN. & INST. THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGABC14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).   |
| FTWGL: | BY TOWER OWNER E.C.  | UG:   | BY TOWER OWNER E.C.  |
| GEG:   | VZW E.C. SHALL CONNECT THE 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR THE GENERATOR ENCLOSURE. CONNECTION TO GENERATOR ENCLOSURE SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. *GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY  | OGA:  | VZW E.C. SHALL FURN. & INST. THE THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAPC14 FOR THE OVP GROUND (OGL) DIRECTLY TO THE OVP H-FRAME POST. SEE DETAIL 4 ON SHEET G-5.   |
|        |  | 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.   |
|        |  | OHG:  | BY TOWER OWNER E.C.  |
|        |  | GPSG: | VZW E.C. SHALL FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR GPS ANTENNA MOUNT PIPE TO H-FRAME SUPPORT POST (TYP. OF 2). CONNECTION TO PIPE AND POST SHALL BE CADWELD.  |

### 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.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
 FAX: 423-843-9509

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SITE NAME:  
**HUNTWICK REAGAN PKWY**

ADDRESS:  
 1201 S COUNTY ROAD 1050 EAST  
 INDIANAPOLIS, IN 46231

COUNTY:  
**HENDRICKS**

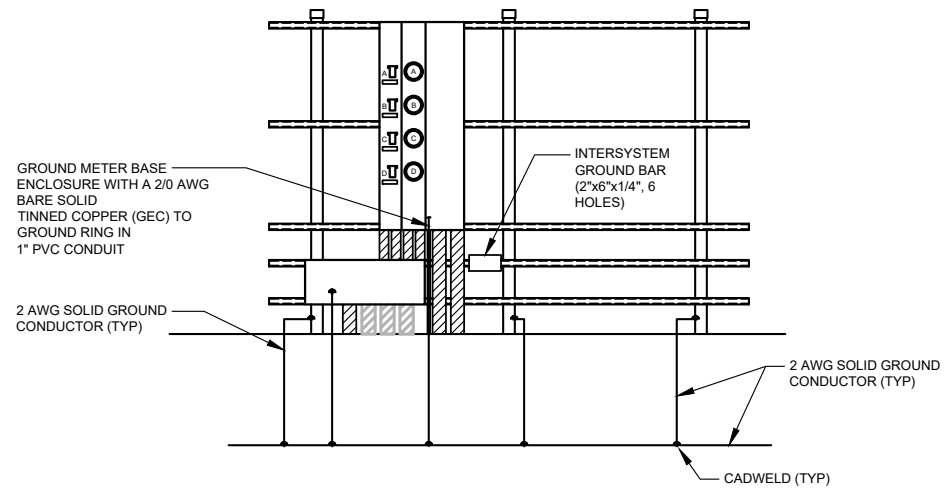
LATITUDE:  
**39° 44' 39.40" N**

LONGITUDE:  
**86° 20' 07.56" W**

SITE NUMBER:  
**HV1624**

SHEET TITLE:

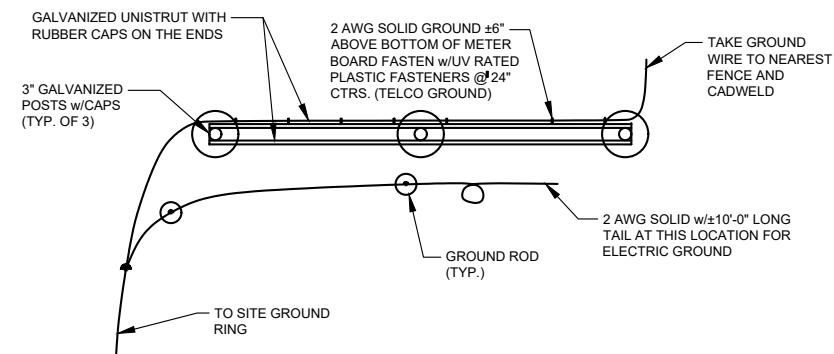
DRAWING NO.	REVISION:
G-3	A



**METER BOARD STRUCTURE GROUNDING**

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

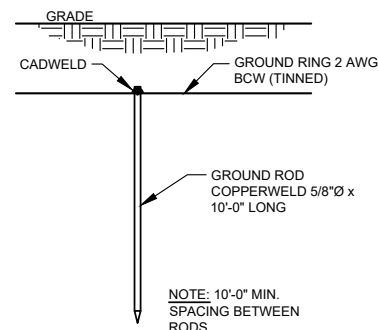
1  
G-4



**METER BOARD STRUCTURE GROUND PLAN**

SCALE: N.T.S.

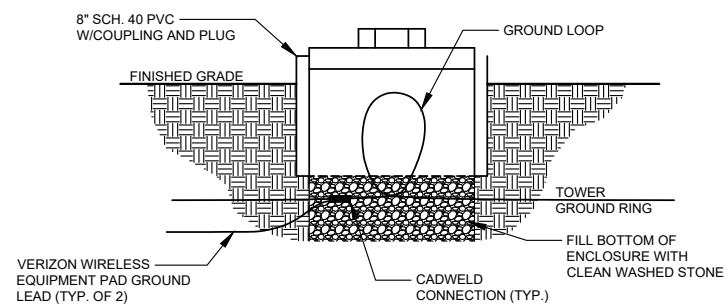
2  
G-4



**GROUND ROD DETAIL**

SCALE: N.T.S.  
(TYP. FOR CONTRACTOR AND VZW GC)

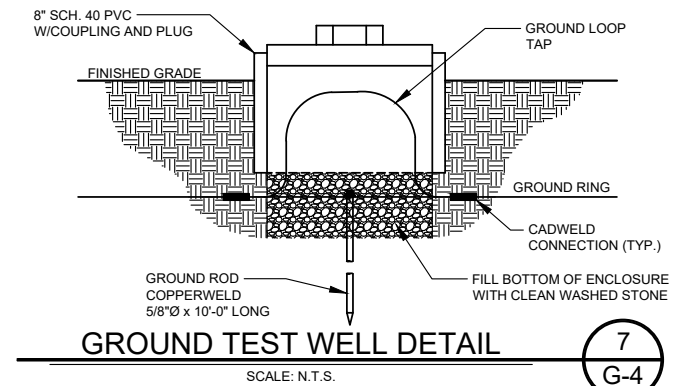
5  
G-4



**INSPECTION SLEEVE DETAIL**

SCALE: N.T.S.

6  
G-4



**GROUND TEST WELL DETAIL**

SCALE: N.T.S.

7  
G-4

PREPARED FOR:



PREPARED BY:



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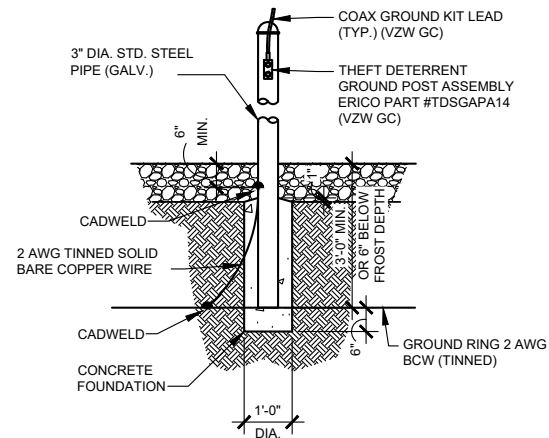
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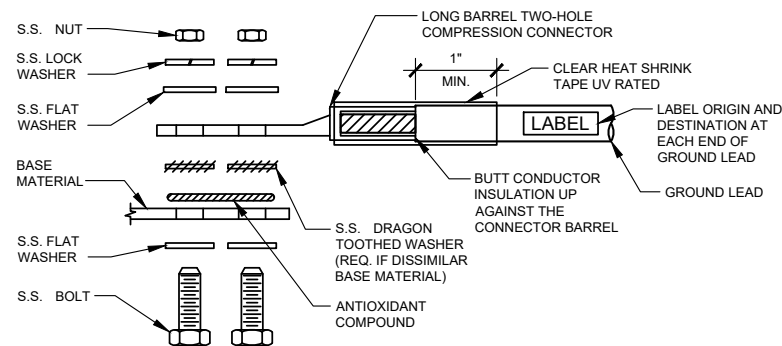
DRAWING NO.	REVISION:
G-4	A



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

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

1  
G-5

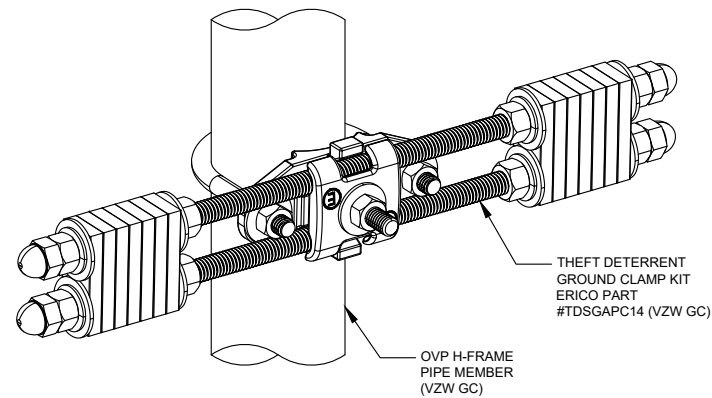


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE WHEN BONDED TO A GROUND BAR OR STEEL OBJECT.
4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED 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 INSTALLATION DETAIL**

SCALE: N.T.S.

2  
G-5



**OVP GROUND ASSEMBLY (OGA)**

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

3  
G-5

PREPARED FOR:



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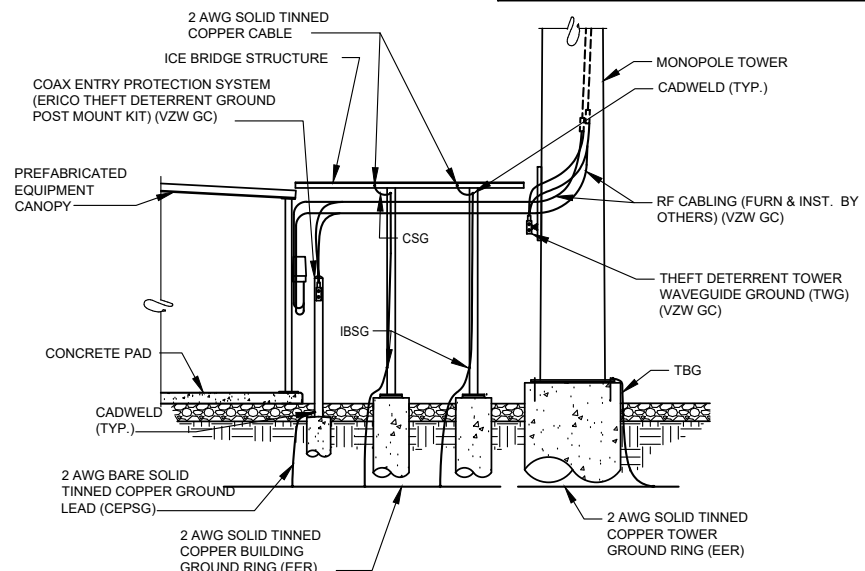
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SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. G-6      REVISION: A

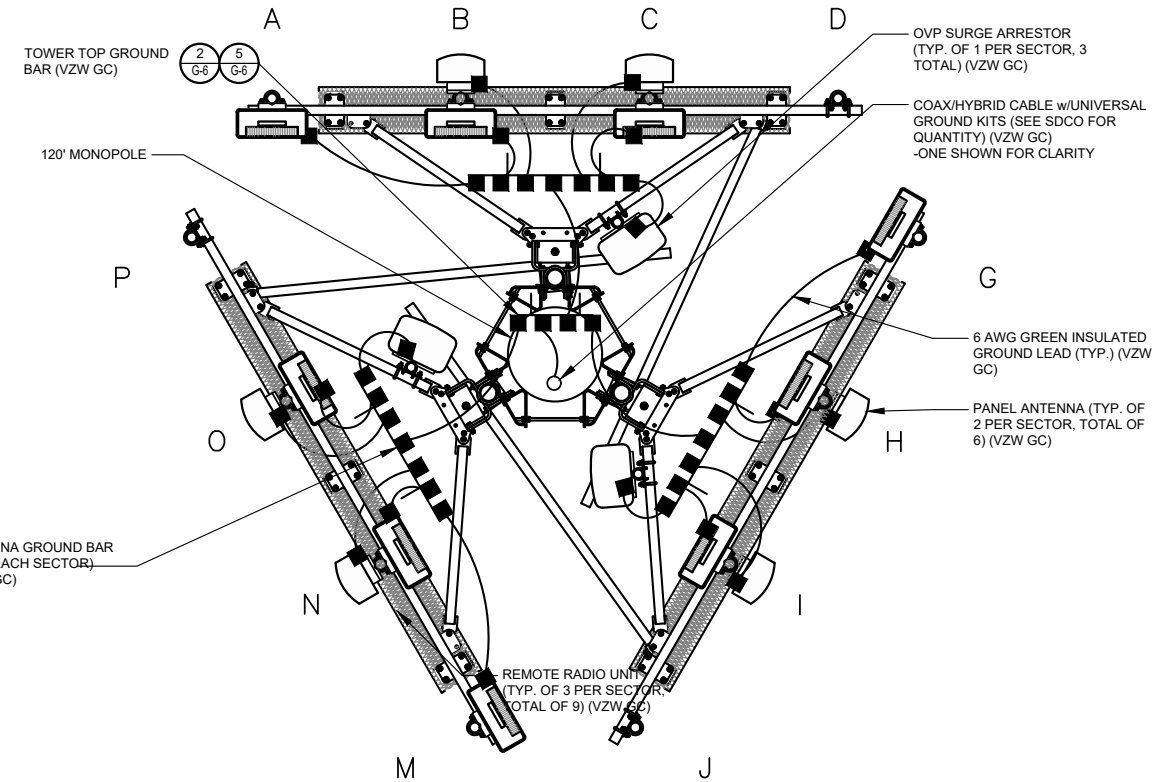
**NOTE:**  
GROUNDING RING DOES NOT PENETRATE SHELTER, TOWER OR ICE BRIDGE FOUNDATIONS REFER TO ELECTRICAL SITE PLAN



**INTERIOR/EXTERIOR GROUNDING DETAIL**

SCALE: N.T.S.

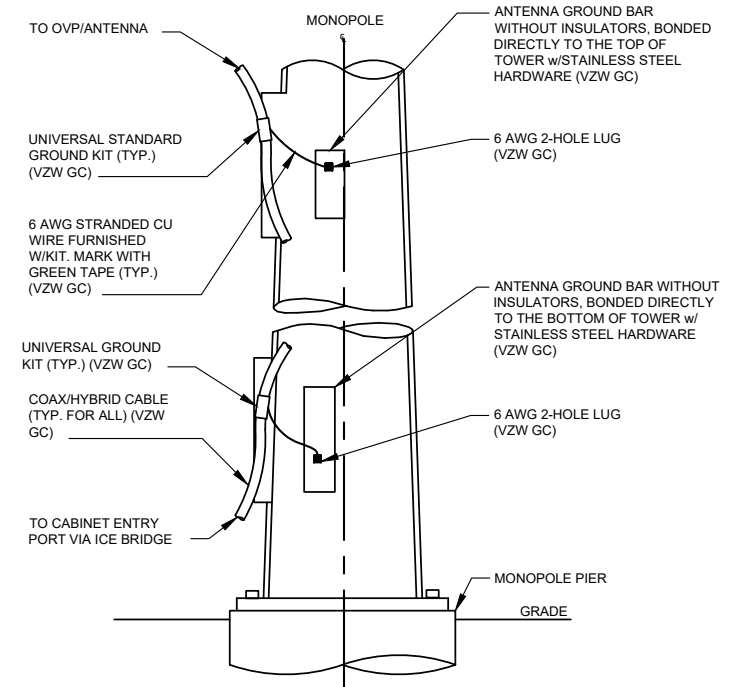
1  
G-6



**ANTENNA LEVEL GROUNDING PLAN**

SCALE: N.T.S.

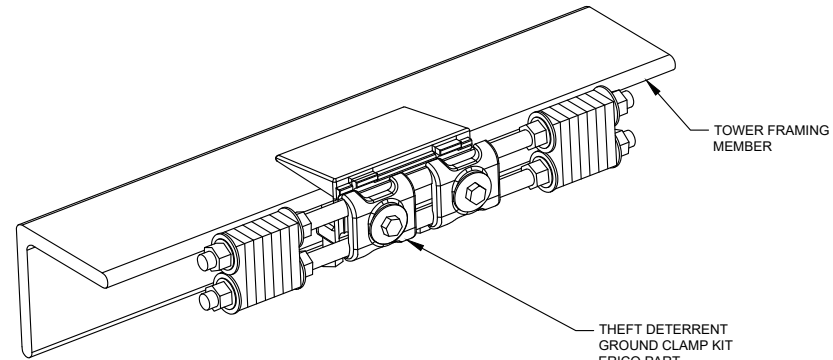
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G-6



**ANTENNA CABLE GROUNDING INSTALLATION DETAIL**

SCALE: N.T.S.

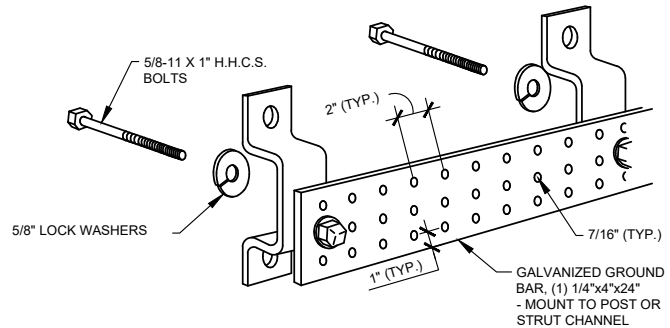
2  
G-6



**TOWER BOTTOM GROUND ASSEMBLY**

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

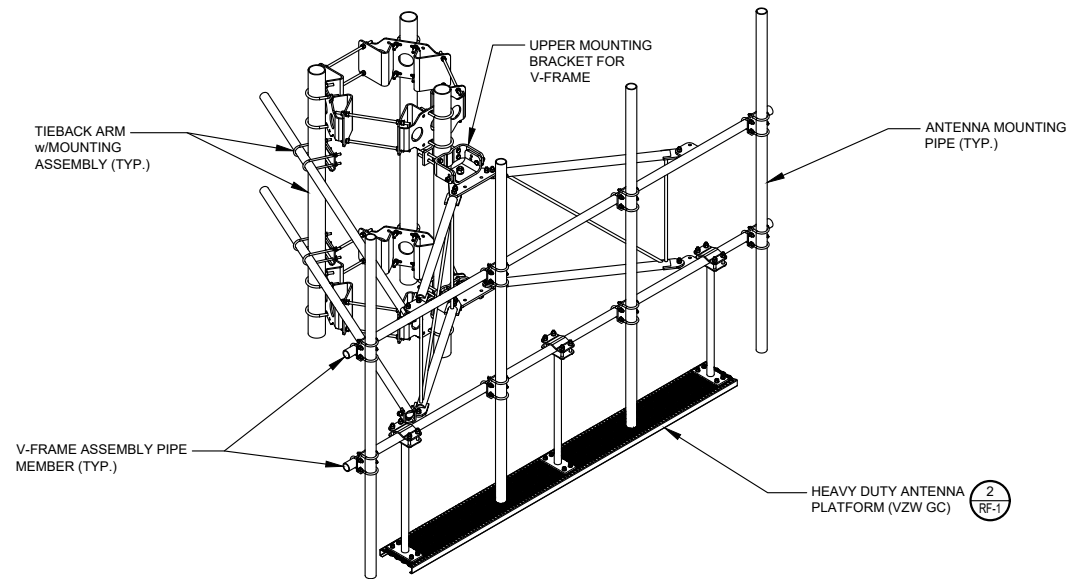
4  
G-6



**ANTENNA & TOWER TOP GROUND BAR**

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

5  
G-6



**ANTENNA MOUNT**

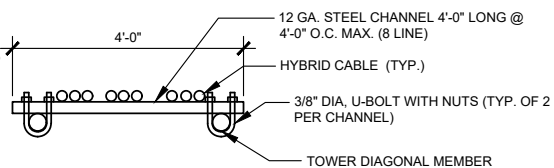
SCALE: N.T.S.  
(BY VZW GC)

1  
RF-1

**ANTENNA AND HYBRID CABLES**

CONTRACTOR MAY SUBSTITUTE AN ALTERNATE METHOD TO SUPPORT THE HYBRID CABLES, BUT SHALL SUBMIT DETAILING OF THE ALTERNATE METHOD TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE CABLES.

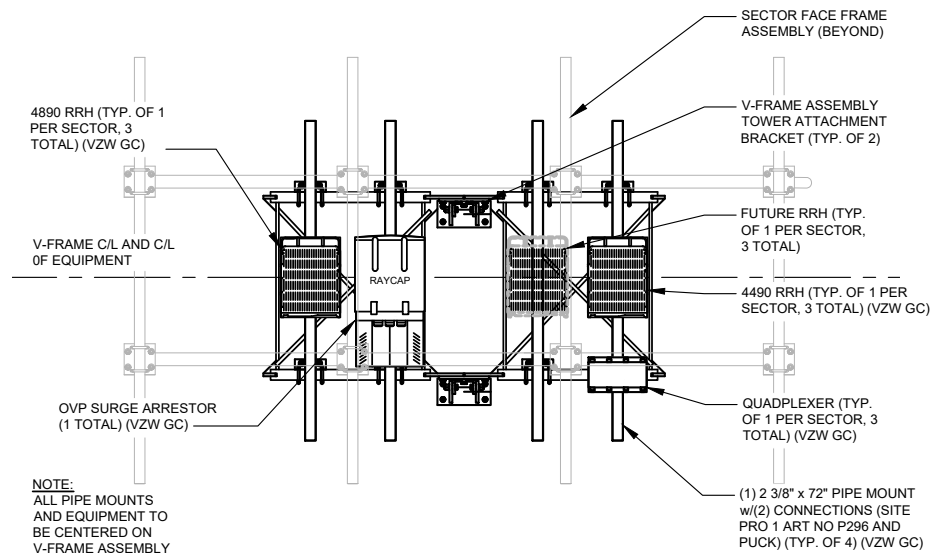
THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE STRUCTURAL ANALYSIS FOR REQUIRED HYBRID CABLE SUPPORT CONFIGURATIONS NOT INDICATED ON THE DETAIL. I.E. BUNDLED CABLES.



**HYBRID CABLE SUPPORT DETAIL**

**GENERAL NOTES:**

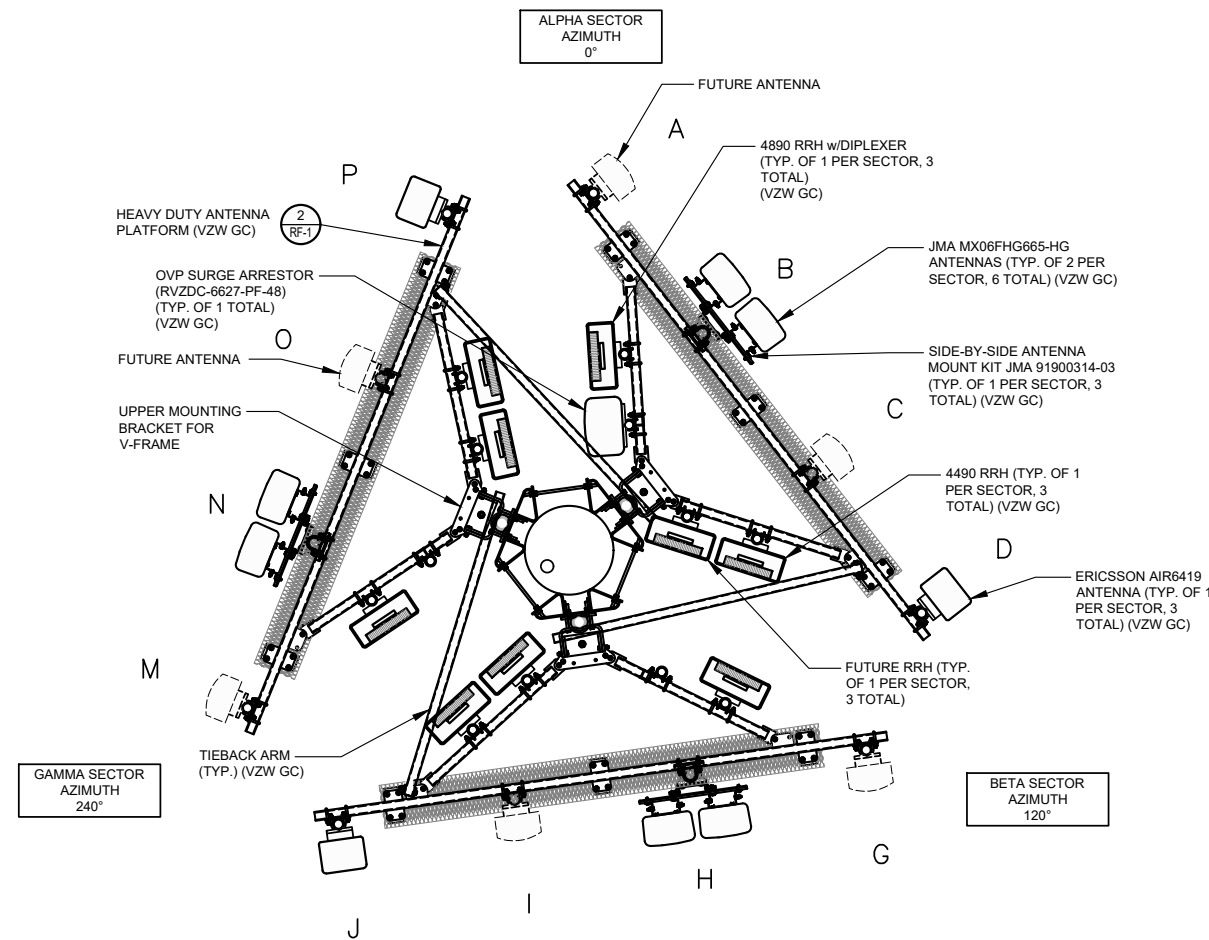
1. VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
2. THE MAXIMUM HYBRID CABLE LENGTH HAS BEEN ESTIMATED AT \_\_\_ FEET, APPROXIMATELY. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
3. TAG ALL MAIN CABLES AT TWO (2) LOCATIONS. 1) AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
4. EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
5. HYBRID CABLES TO BE SUPPORTED EVERY 36" OFF MOUNTING FRAMES WITH STAINLESS STEEL HANGERS.
6. JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.



**ANTENNA MOUNT - REAR VIEW (FLATTENED)**

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

3  
RF-1

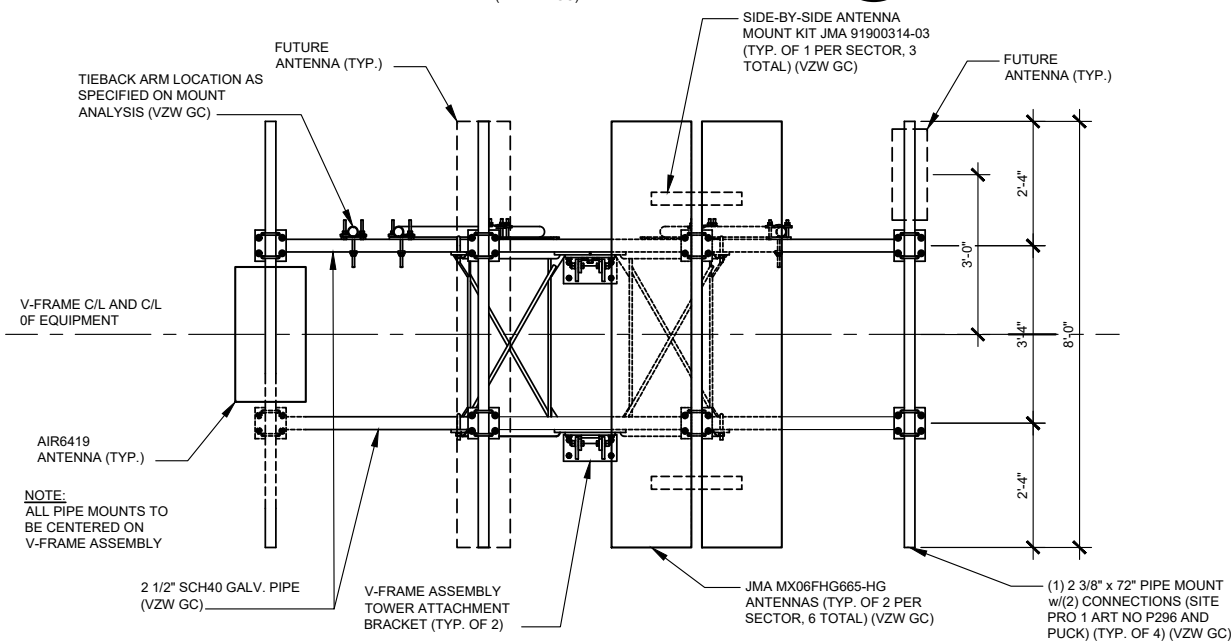


**ANTENNA LAYOUT - PLAN VIEW**

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

2  
RF-1

NOTE:  
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.



**ANTENNA MOUNT - FRONT VIEW**

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

4  
RF-1

PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130  
HIXSON, TN 37343  
PH: 423-843-9500  
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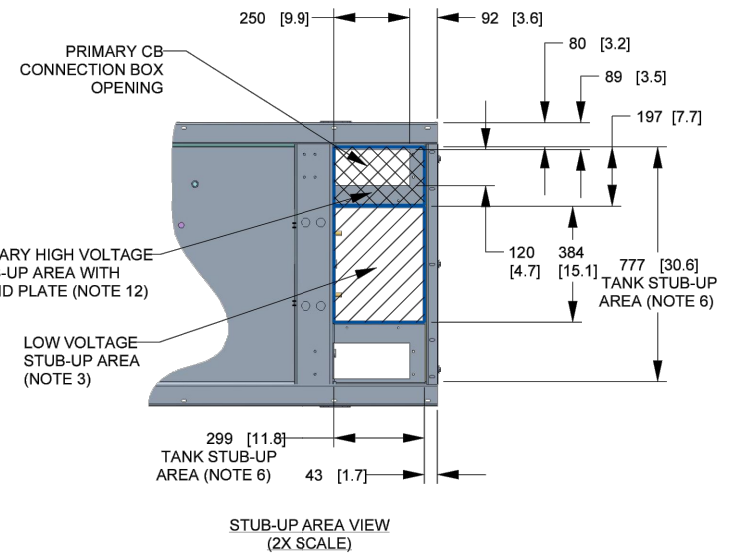
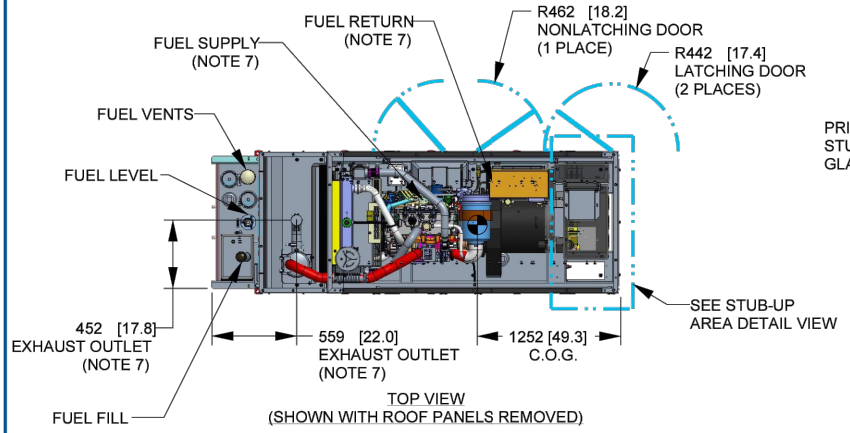
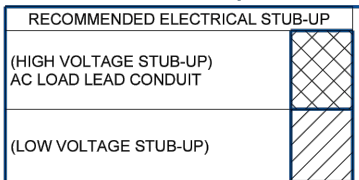
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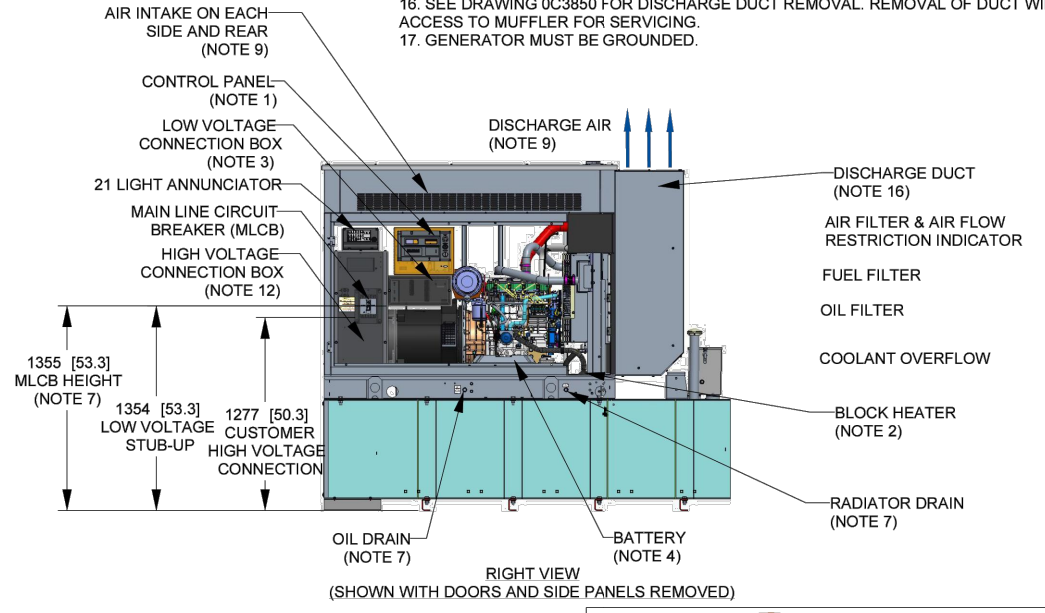
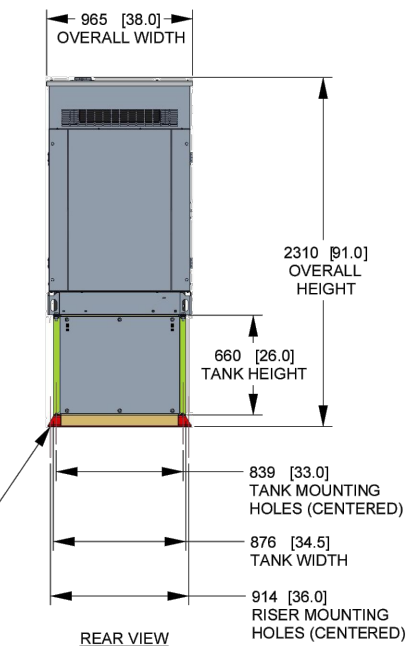
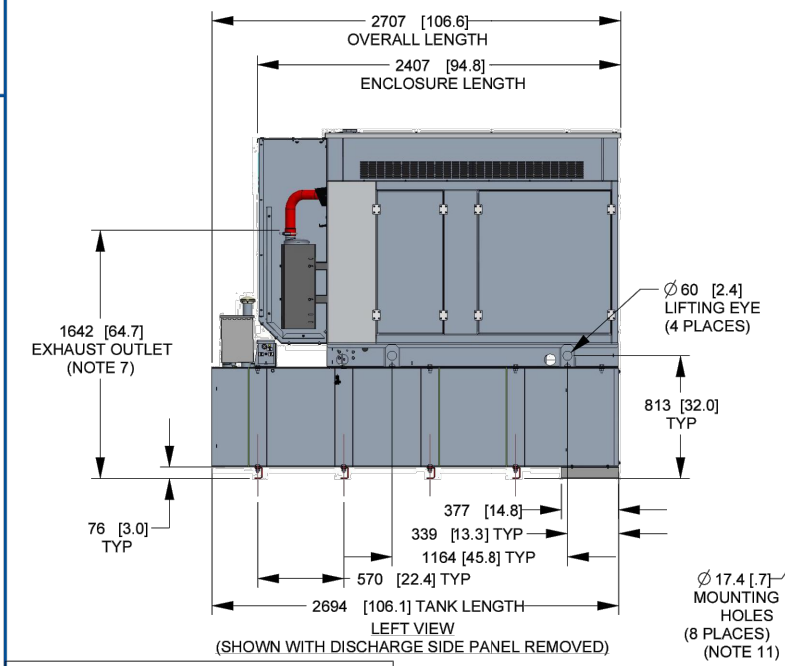
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SH 1/1 REV B WINDCHILL VERSION B.3 1



- NOTES:**
- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD
  - 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
  - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX. BOTTOM HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS. (USE LOW VOLTAGE STUB-UP AREA).
  - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
  - MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION) AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
  - CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
  - ENGINE SERVICE CONNECTIONS:  
 INLET DIESEL = 3/8" NPT  
 RETURN DIESEL = 3/8" NPT  
 OIL DRAIN = 1/2" NPT  
 RADIATOR DRAIN = 1/2" NPT  
 EXHAUST OUTLET = 2.5" I.D.
  - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
  - GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  - BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
  - HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
  - 190 GALLON USEABLE CAPACITY BASE TANK STANDARD WITH GENERATOR.
  - IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
  - UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
  - SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
  - GENERATOR MUST BE GROUNDED.



WEIGHT DATA: (INCLUDES FUEL TANK)  
 GENERATOR: 1358 [2995]  
 GENERATOR WITH SHIPPING SKID: 1424 [3139]  
 WEIGHT: KG [LBS]  
 DIMENSIONS: MM [INCHES]



TITLE			
<b>INSTALL D2.2L G22 30KW SSS L2A Y02 EXT</b>			
ISSUE DATE:		12/18/17	
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000019074	B
SCALE	0.025	WT-KG	SEE ABOVE SHEET 1 of 1

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

# DRAWING TO BE USED ON INDIANA SITES ONLY



**VERIZON WIRELESS**  
 SITE NAME: THIS SITE NAME  
 SITE ADDRESS: TBD S COUNTY RD 1050E  
 CITY, STATE ZIP  
 SITE EMIS#: #####  
 SITE COORDINATES: 39° 44' 39.40" N, 86° 20' 07.56" W

## VERIZON WIRELESS TIER II SITE MAP

SCALE: N.T.S.



PREPARED FOR:



PREPARED BY:



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**HV1624**

SHEET TITLE:

DRAWING NO. ER-1 (INDIANA ONLY)	REVISION: A
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PREPARED BY:  
**TeleCAD**  
 Wireless  
 1961 NORTHPOINT BLVD, SUITE 130  
 HIXSON, TN 37343  
 PH: 423-843-9500  
 FAX: 423-843-9509

DRAWING NOTICE:  
 THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY: MJB  
 CHECKED BY: DS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
A	03/25/24	MJB	PRELIMINARY REVIEW

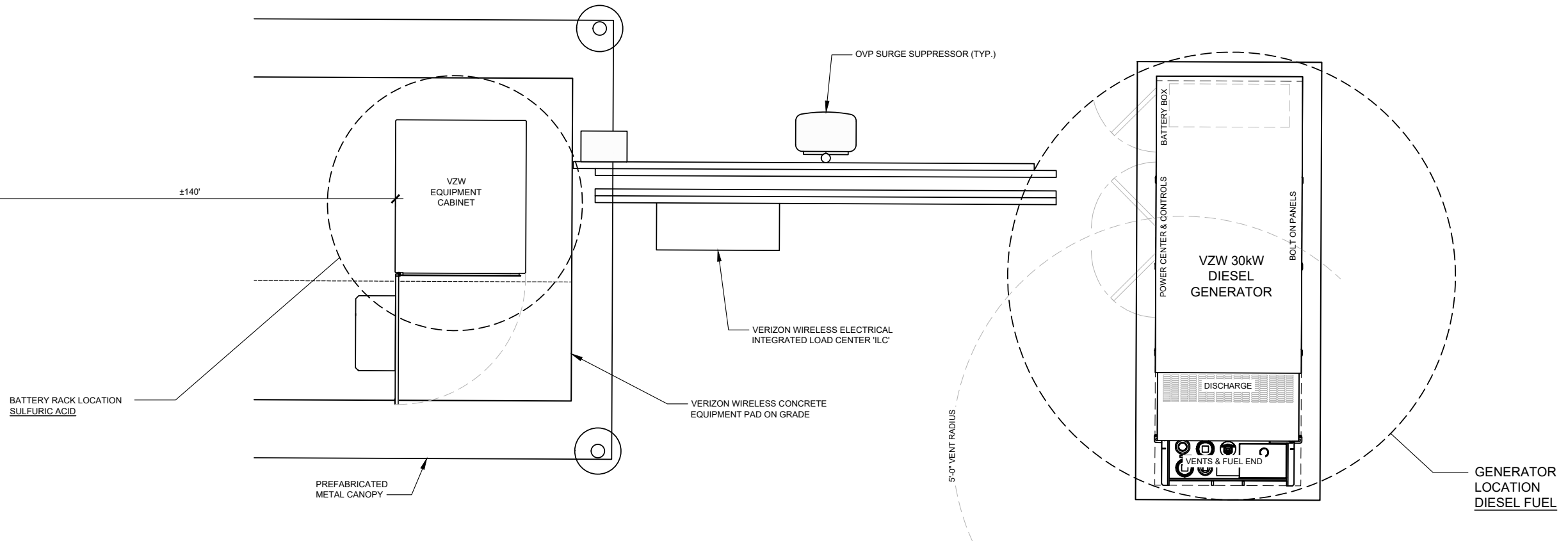
ENGINEER'S STAMP:  
 NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:  
**HUNTWICK REAGAN PKWY**  
 ADDRESS:  
 1201 S COUNTY ROAD 1050 EAST  
 INDIANAPOLIS, IN 46231  
 COUNTY:  
**HENDRICKS**  
 LATITUDE:  
**39° 44' 39.40" N**  
 LONGITUDE:  
**86° 20' 07.56" W**  
 SITE NUMBER:  
**HV1624**

SHEET TITLE:

DRAWING NO. ER-2 (INDIANA ONLY) REVISION: A

S COUNTY ROAD 1050 E



**VERIZON WIRELESS**  
 SITE NAME: THIS SITE NAME  
 SITE ADDRESS: TBD S COUNTY RD 1050E  
 CITY, STATE ZIP  
 SITE EMIS#: #####  
 SITE COORDINATES: 39° 44' 39.40" N, 86° 20' 07.56" W

NOTE:  
 LOCATION OF VERIZON WIRELESS EQUIPMENT PAD IN RELATION TO PUBLIC RIGHTS OF WAY ARE FOR REFERENCE ONLY. DISTANCE TO RIGHTS OF WAY VARIES.

**VERIZON WIRELESS TIER II EQUIPMENT PLAN**  
 SCALE: N.T.S.

