



BULLDOGS CELL SITE

LOCATION NO. 251610
PROJECT NO. 2011608527
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112
HENDRICKS COUNTY

GTE MOBLINET OF INDIANA
LIMITED PARTNERSHIP d/b/a

**MAGTECH
SERVICES, INC.**
AN AFFILIATE OF FUTURE WIRELESS INC.
1715 MANHATTAN BLVD, FORT MIAMI, INDIANA 46004
PH: (317) 438-2888 • FAX: (317) 438-2422

CERTIFICATION

**PRELIMINARY NOT
FOR CONSTRUCTION**

APPLICANT
VERIZON WIRELESS
AMY HARPER
2441 HOLLOWAY ROAD
LOUISVILLE, KY 40299
PHONE: (502) 552-0330
EMAIL: amy.harper@verizonwireless.com

SITE ACQUISITION
WESTERN ACQUISITION
STEVE QUALLEY
4000 INGRESS FARMS ROAD
BLOOMINGTON, IN 47401
PHONE: (812) 333-5640
EMAIL: wesnacquisitions@earthlink.net

SURVEYOR
COLLOTT-JORDAN SURVEYING
AND DESIGN, INC.
1000 JORDAN
1133 BROADWAY
FORT WAYNE, IN 46802
PHONE: (260) 424-5382
EMAIL: todd.gardner@prattandclender.com

ARCHITECTURAL AND ENGINEERING
MAGTECH SERVICES, INC.
DONALD HERRTELINGER
1715 MANHATTAN WAY
FORT WAYNE, IN 46804
PHONE: (260) 435-2869
EMAIL: gfr@magservices.com

UTILITIES - ELECTRIC
DUKE ENERGY
METER SET AND ACCOUNT SETUP
PHONE: (800) 774-0246

UTILITIES - TELCO
ATA1
LARRY WILSON
5868 N. COLLIERE AVENUE
INDIANAPOLIS, IN 46270
PHONE: (317) 252-4166

POLICE DEPARTMENT
BROWNSBURG POLICE DEPARTMENT
470 E. NORTHFIELD DRIVE
BROWNSBURG, IN 46112
PHONE: (317) 852-1190

FIRE DEPARTMENT
BROWNSBURG FIRE DEPARTMENT
53 E. MAIN STREET
BROWNSBURG, IN 46112
PHONE: (317) 852-1100
EMAIL: todd.gardner@prattandclender.com

TOWER MANUFACTURER
ROHM
6718 W. PLANK ROAD
PICOCA, IN 46184
PHONE: (309) 897-4400

LANDLORD
AMERICAN TOWER CORP.
BETH POWERS
WOBURN, MA 01810
PHONE: (248) 302-1875
EMAIL: beth.powers@ameriantower.com

SITE ID
M01E / #91639

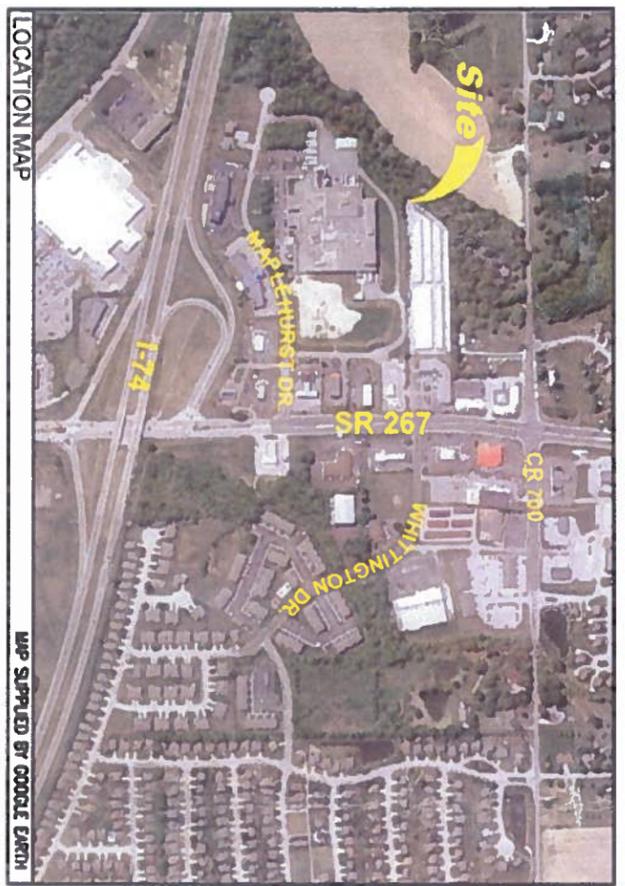
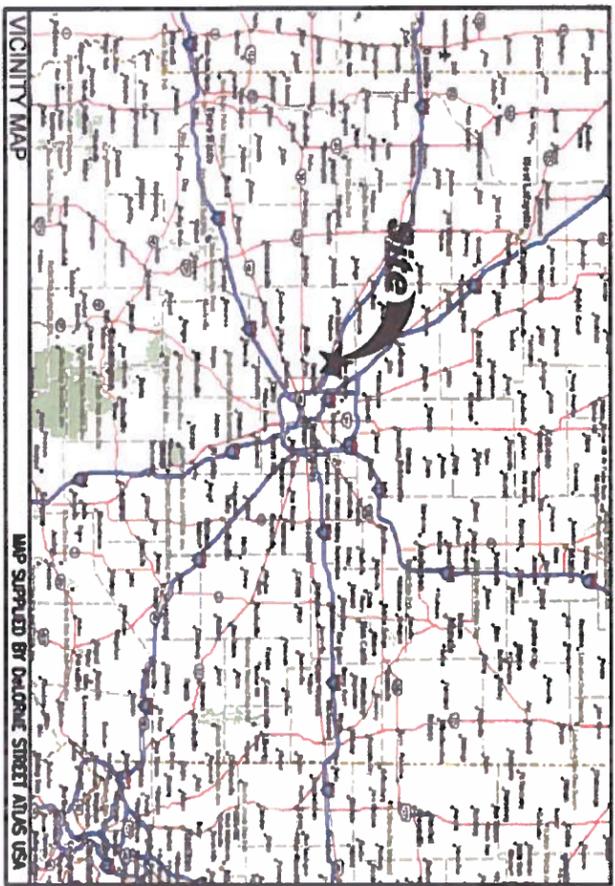
CONSULTANT TEAM

THE PROJECT INCLUDES
INSTALLATION OF T-1 FRAMES, PANEL ANTENNA, AND ASSOCIATED COAX ON AN EXISTING 250' SELF-SUPPORT TOWER
INSTALLATION OF AN 85'-0" x 11'-6" UNMANNED EQUIPMENT SHELTER ON A CONCRETE FOUNDATION
NEW ELECTRICAL AND TELEPHONE SERVICE RUN TO THE EQUIPMENT SHELTER
NO WATER SUPPLY OR SEWAGE TOWARD THE SITE

SITE LOCATION, ELEV.
LATITUDE - N30° 51' 49.9"
LONGITUDE - W082° 23' 47.8"
ELEVATION - 4883.1' MSL

PROJECT SUMMARY

DIRECTIONS TO SITE



DRAWING INDEX

- T-1 PROJECT INFORMATION, LOCATION MAPS, AND DRAWING INDEX
- 1 OF 2 SITE SURVEY
- 2 OF 2 SITE SURVEY
- C-0 GENERAL CONSTRUCTION NOTES
- C-1 SHELTER LOCATION PLAN
- C-2 SITE CIVIL AND SHELTER DETAILS
- A-1 TOWER ELEVATION, ANTENNA SCHEDULE, NOTES AND DETAILS
- B-1 EQUIPMENT SHELTER PLAN, SECTION AND DETAILS
- B-2 EQUIPMENT SHELTER EXTERIOR ELEVATIONS
- E-1 UTILITY AND GROUNDING SITE PLANS AND NOTES
- E-2 ELECTRIC AND TELCO UTILITY DETAILS
- E-3 GROUNDING SCHEMATICS AND DETAILS
- E-4 GROUNDING DETAILS
- SP-1 SPECIFICATIONS
- SP-2 SPECIFICATIONS

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DRAWN BY: DM
CHECKED BY: MM

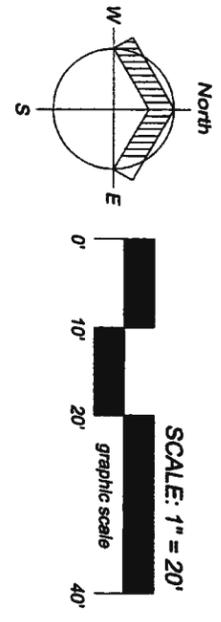
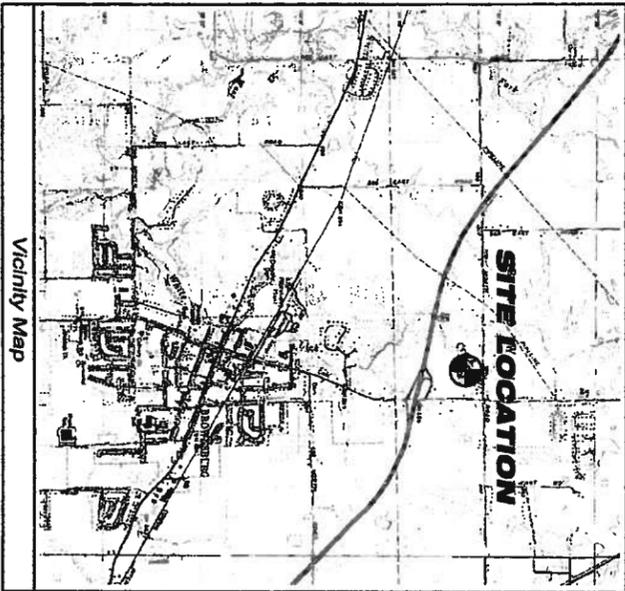
SITE NAME:
BULLDOGS
CELL SITE

SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

SHEET TITLE:
PROJECT INFORMATION,
LOCATION MAPS,
AND DRAWING INDEX

DATE PROJECT NO.:
001-1160

SHEET NO.:
T-1

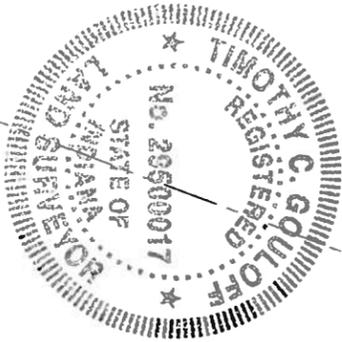


LEGEND

⊗	POWER POLE	---	UNDERGROUND TELEPHONE
⊙	LIGHT POLE	---	UNDERGROUND GAS LINE
□	UTILITY REDESTAL	---	UNDERGROUND WATER LINE
⊕	FIRE HYDRANT	(m)	MEASURED
⊖	WATER VALVE	(n)	RECORDED
---	OVERHEAD POWER LINE	(c)	CALCULATED
---	OVERHEAD POWER LINE	(a)	EXISTING SURVEY INFORMATION
---	OVERHEAD TELEPHONE		

I, TIMOTHY C. GOULOFF, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF INDIANA, AND THAT THE INFORMATION SHOWN HEREON IS TRUE AND ACCURATE TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF. CERTIFIED THIS 22nd DAY OF JUNE, 2012.

Timothy C. Gouloff
TIMOTHY C. GOULOFF, L.S. (29600017)



NOTES:
THE CENTER OF EXISTING TOWER COORDINATES (LATITUDE AND LONGITUDE) WERE OBTAINED VIA GPS OBSERVATIONS FROM NGS STATION 'AVON' (NAD 83)

VERTICAL DATUM SHOWN HEREON IS BASED ON NGS STATION 'AVON' BRASS DISK IN CONCRETE MONUMENT STAMPED 'AVON 1897'. ELEV. 828.0 (NAVD 88)
ALL BEARINGS FOR OBSERVATIONS ON VARIOUS CONTROL POINTS SET THIS SURVEY.
RECEIVERS FOR OBSERVATIONS ON VARIOUS CONTROL POINTS SET THIS SURVEY.
THIS SURVEY REFLECTS ABOVE GROUND INDICATIONS OF UTILITIES AND INFORMATION AVAILABLE FROM UTILITY COMPANIES AT TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPARE ALL SUCH UTILITIES IN THE AREA, IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED UNDERGROUND UTILITIES.

ALL BOUNDARY INFORMATION AS SHOWN HEREON WAS ESTABLISHED FROM MONUMENTS LOCATED IN THE FIELD AND INFORMATION AS REFERENCED HEREON A TITLE 869 BOUNDARY SURVEY WAS NOT PERFORMED IN CONJUNCTION WITH THIS SURVEY.
FIELD WORK FOR THIS SURVEY WAS PERFORMED ON JUNE 18, 2012

DESCRIPTIONS DEPICTED HEREON WERE COPIED FROM MEMORANDUM OF LEASE AGREEMENT IN INSTRUMENT 9800033961 IN THE OFFICE OF THE RECORDER OF HENDRICKS COUNTY, IN.

CENTER OF EXISTING TOWER COORDINATES:
LATITUDE: NORTH 39 DEGREES 51 MINUTES 49.92 SECONDS (NAD83)
LONGITUDE: WEST 086 DEGREES 23 MINUTES 47.77 SECONDS (NAD83)
GROUND ELEVATION: 885.10 FEET AMSL (NAVD89)

EXISTING TOWER HEIGHT:
TOP OF TOWER STRUCTURE: 251.0 FEET (+/-) AGL
TOP OF HIGHEST APPURTENANCE: 256.5 FEET (+/-) AGL

LAND DESCRIPTION

Part of the Northwest Quarter of Section 2, Township 16 North, Range 1 East in Brown Township, Hendricks County, Indiana, more particularly described as follows:

Commencing at a railroad spike found marking the Northeast corner of said Quarter section; thence South 00 degrees 18 minutes 00 seconds West along the East line of said Quarter section 393.50 feet to a railroad spike set; thence South 00 degrees 18 minutes 00 seconds West 238.05 feet; thence North 88 degrees 34 minutes 25 seconds West 1109.84 feet; thence North 00 degrees 26 minutes 35 seconds East 15.00 feet to the POINT OF BEGINNING of this description; thence South 84 degrees 35 minutes 59 seconds West 14.14 feet; thence North 50 degrees 24 minutes 01 seconds West 40.00 feet; thence North 39 degrees 35 minutes 59 seconds East 50.00 feet; thence South 50 degrees 24 minutes 01 seconds East 40.00 feet; thence South 05 degrees 24 minutes 01 seconds East 14.14 feet; thence South 39 degrees 35 minutes 59 seconds West 30.00 feet to the POINT OF BEGINNING of this description. Containing 0.06 acres, more or less.

UTILITY EASEMENT

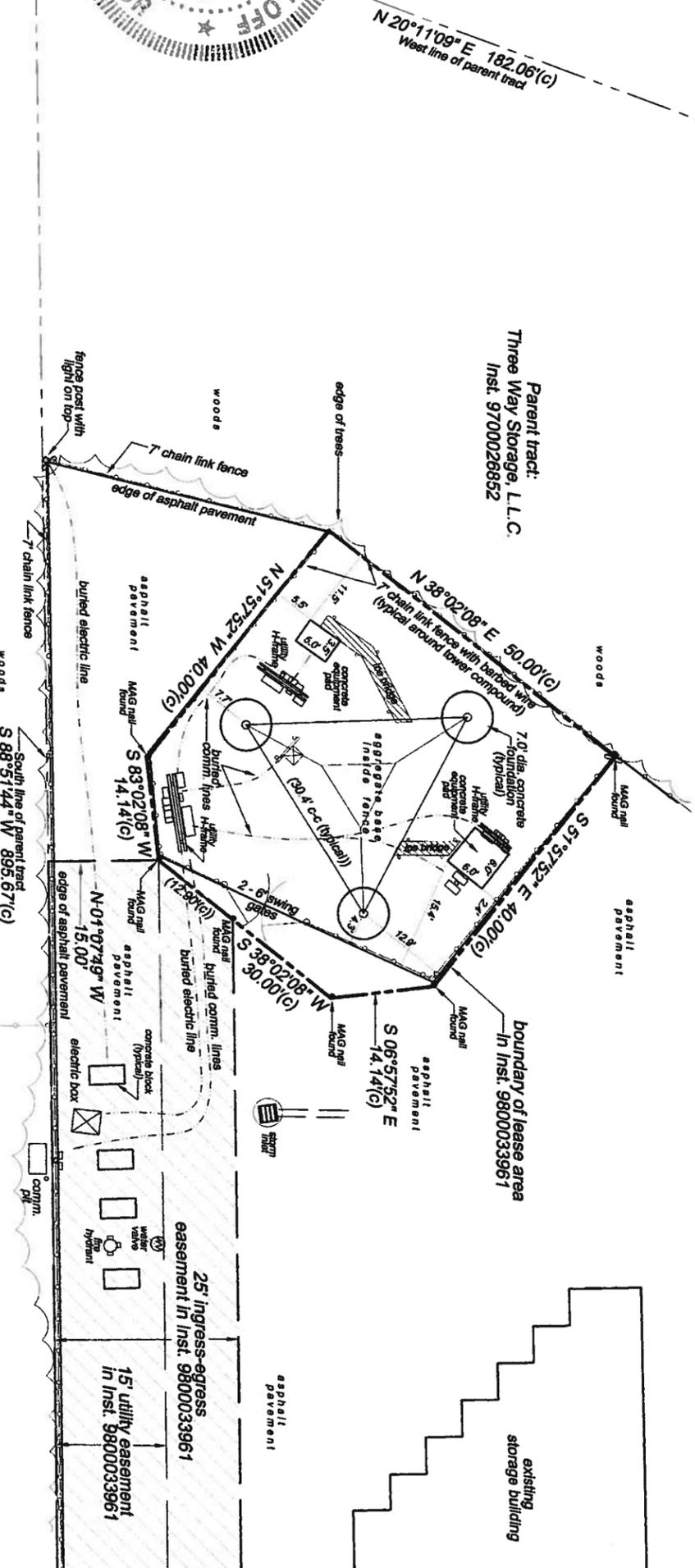
Part of the Northwest Quarter of Section 2, Township 16 North, Range 1 East in Brown Township, Hendricks County, Indiana, more particularly described as follows:

Commencing at a railroad spike found marking the Northeast corner of said Quarter section; thence South 00 degrees 18 minutes 00 seconds West along the East line of said Quarter section 393.50 feet to a railroad spike set; thence South 00 degrees 18 minutes 00 seconds West 238.05 feet; thence North 89 degrees 34 minutes 25 seconds West 50.00 feet to the POINT OF BEGINNING of this description; thence North 89 degrees 34 minutes 25 seconds West 1059.84 feet; thence North 00 degrees 25 minutes 59 seconds East 15.00 feet; thence North 39 degrees 35 minutes 59 seconds East 12.90 feet; thence South 88 degrees 34 minutes 25 seconds East 751.63 feet; thence North 00 degrees 18 minutes 00 seconds East 20.00 feet; thence North 88 degrees 31 minutes 02 seconds East 300.15 feet; thence South 00 degrees 18 minutes 00 seconds West 55.00 feet to the POINT OF BEGINNING of this description. Containing 0.78 acres more or less.

INGRESS EGRESS EASEMENT

Part of the Northwest Quarter of Section 2, Township 16 North, Range 1 East in Brown Township, Hendricks County, Indiana, more particularly described as follows:

Commencing at a railroad spike found marking the Northeast corner of said Quarter section; thence South 00 degrees 18 minutes 00 seconds West along the East line of said Quarter section 393.50 feet to a railroad spike set; thence South 00 degrees 18 minutes 00 seconds West 238.05 feet; thence North 89 degrees 34 minutes 25 seconds West 50.00 feet to the POINT OF BEGINNING of this description; thence North 89 degrees 34 minutes 25 seconds West 1059.84 feet; thence North 00 degrees 25 minutes 59 seconds East 15.00 feet; thence North 39 degrees 35 minutes 59 seconds East 12.90 feet; thence South 88 degrees 34 minutes 25 seconds East 751.63 feet; thence North 00 degrees 18 minutes 00 seconds East 20.00 feet; thence North 88 degrees 31 minutes 02 seconds East 300.15 feet; thence South 00 degrees 18 minutes 00 seconds West 55.00 feet to the POINT OF BEGINNING of this description. Containing 0.78 acres more or less.



REVISIONS

REV. NO.	DATE	DESCRIPTION

TOWER SITE AS-BUILT SURVEY
Site Name: **BULLDOGS**
Site I.D.: **251610**
LOCATED IN THE NORTHWEST QUARTER OF SECTION 2, TOWNSHIP 16 NORTH, RANGE 1 EAST BROWN TOWNSHIP, HENDRICKS COUNTY, INDIANA

GOULOFF - JORDAN SURVEYING AND DESIGN, INC.
1133 BROADWAY FORT WAYNE, IN 46802
PH (260) 424-5362 FAX (260) 424-4916

GTE Moblinet of Indiana Limited Partnership d/b/a
verizon wireless

PROJECT NO. 20120083
DATE: 06/22/2012
SCALE: 1" = 20'
DRAWN: TCM
CHECK: TCG

PROJECT NO.
20120083

DATE:
06/22/2012

SCALE:

DRAWN
TJM

CHKD
TCG

GTE Mobilnet of Indiana
Limited Partnership d/b/a



GOULOFF - JORDAN
SURVEYING AND DESIGN, INC.
1133 BROADWAY FORT WAYNE, IN 46802
PH (260) 424-5362 FAX (260) 424-4916

TOWER SITE AS-BUILT SURVEY
Site Name: **BULLDOGS**
Site I.D.: 251610
LOCATED IN THE NORTHWEST QUARTER OF
SECTION 2, TOWNSHIP 16 NORTH, RANGE 1 EAST
BROWN TOWNSHIP, HENDRICKS COUNTY, INDIANA

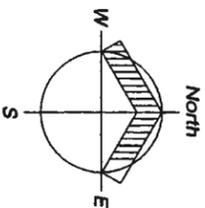
REVISIONS

REV. NO.	DATE	DESCRIPTION

DRAWING NO.
20120083

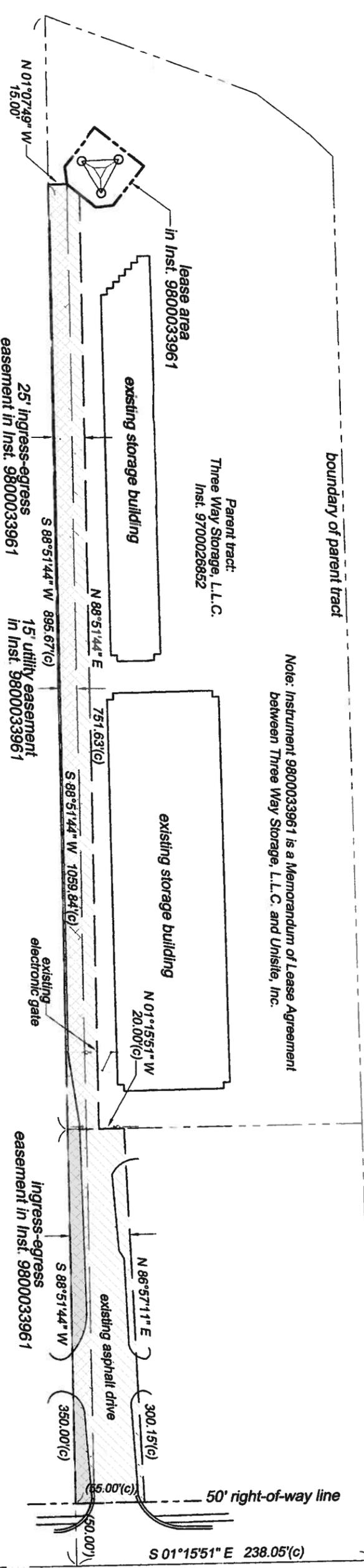
SHEET
2 OF 2

NE corner, NW 1/4
Sec. 2, T 16 N, R 1 E
Brown Township
Hendricks County, IN
Harrison monument
found (0.0)



East line, NW 1/4, Sec. 2, T16N, R1E S 01°15'51" E 2627.50'(m)
S 01°15'51" E 393.50'(c)

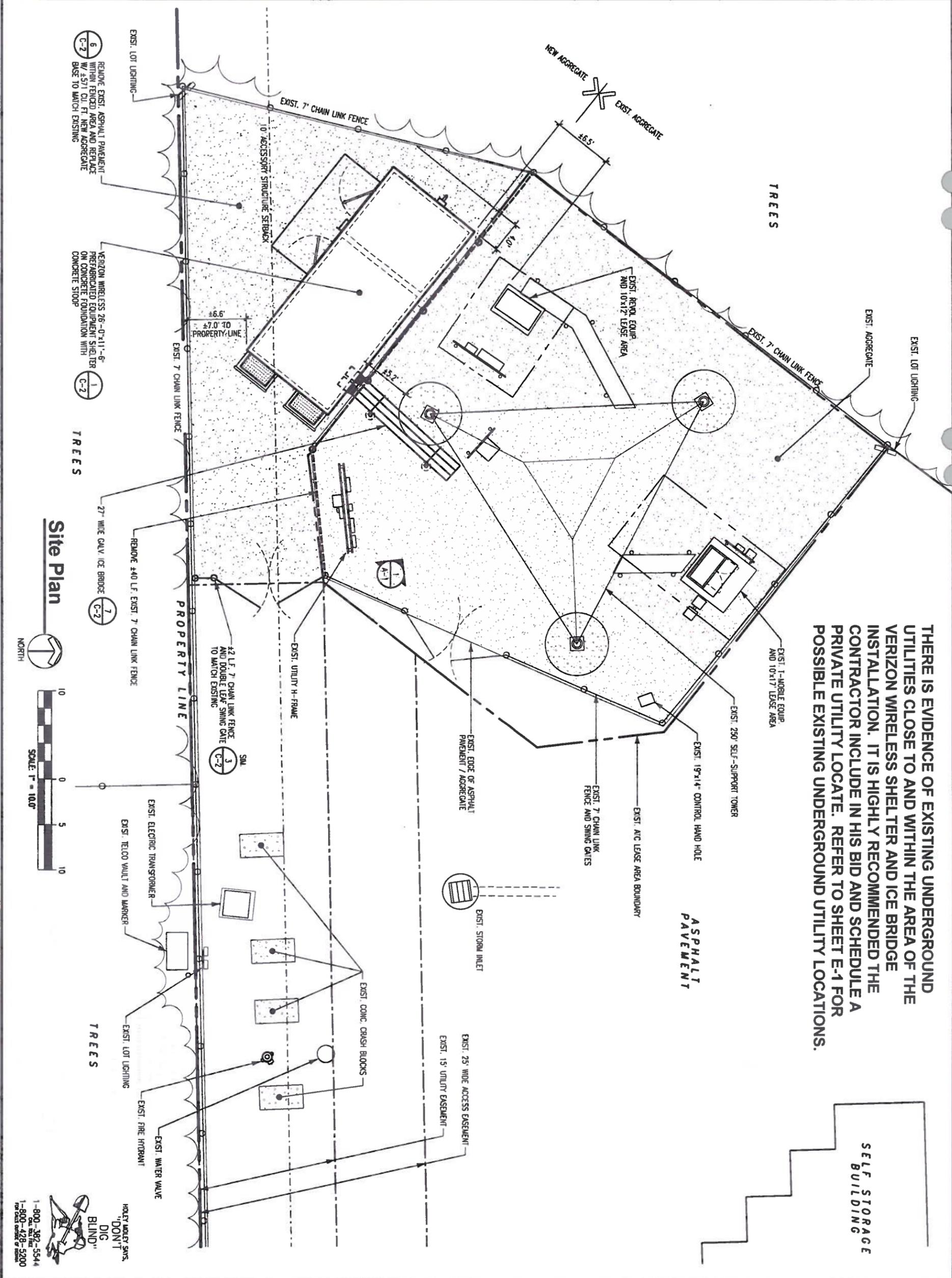
North State Road 267 (North Green Street)



Note: Instrument 9800033961 is a Memorandum of Lease Agreement between Three Way Storage, L.L.C. and Unisite, Inc.

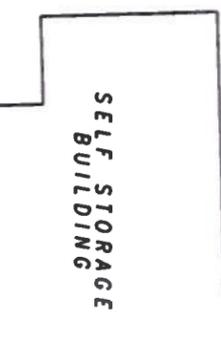
Parent Tract Orientation Detail
(no scale)

SE corner, NW 1/4
Sec. 2, T 16 N, R 1 E
Brown Township
Hendricks County, IN
Harrison monument
found (0.0)



THERE IS EVIDENCE OF EXISTING UNDERGROUND UTILITIES CLOSE TO AND WITHIN THE AREA OF THE VERIZON WIRELESS SHELTER AND ICE BRIDGE INSTALLATION. IT IS HIGHLY RECOMMENDED THE CONTRACTOR INCLUDE IN HIS BID AND SCHEDULE A PRIVATE UTILITY LOCATE. REFER TO SHEET E-1 FOR POSSIBLE EXISTING UNDERGROUND UTILITY LOCATIONS.

Site Plan



GTE MOBILENET OF INDIANA
LIMITED PARTNERSHIP d/b/a

MAGTECH SERVICES, INC.
AN AFFILIATE OF FORTUNE WIRELESS INC.
1715 WASHINGTON BLVD, FORT WANE, INDIANA 46004
Ph: (260) 438-2668 • Fax: (260) 438-2402

PRELIMINARY NOT FOR CONSTRUCTION

CERTIFICATION:

DATE: 07-30-12
DATE: PRELIMINARY SITE PLANS

REVISIONS:

DATE:

REASON:

DATE:

DESIGNED BY: DPH
CHECKED BY: ALM

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SITE NAME:
BULLDOGS
CELL SITE

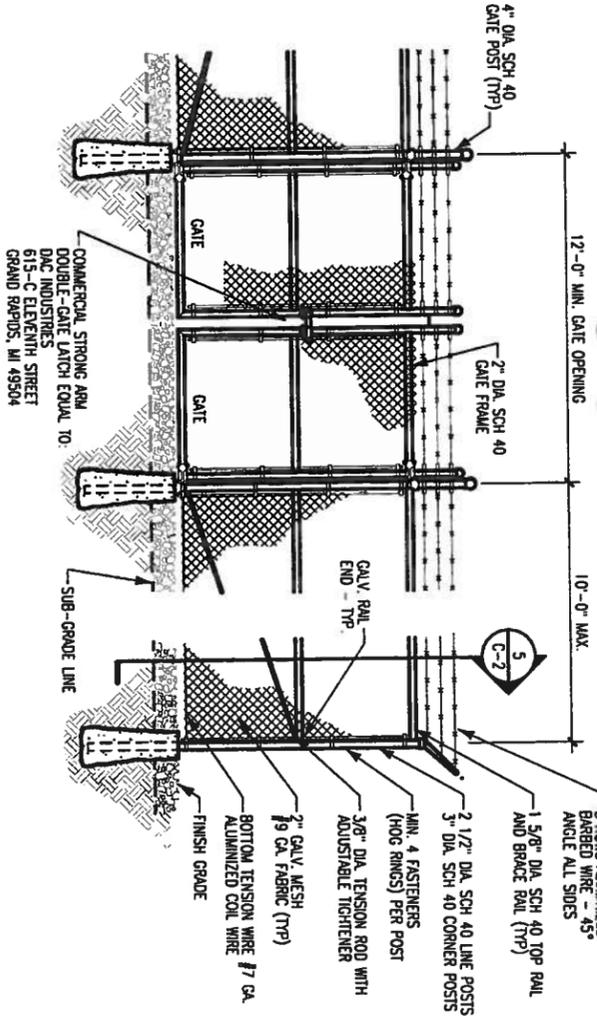
SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

SHEET TITLE:
SHELTER LOCATION PLAN

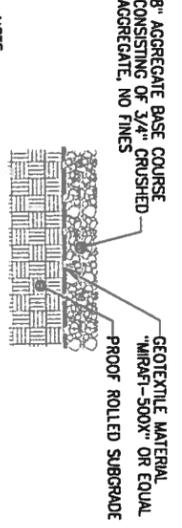
PROJECT NO.:
001-1160

SHEET NO.:
C-1

HOLEY MOLEY SVCS.
"DON'T
DIG
BLIND!"
1-800-392-5544
1-800-428-5200
FOR FULL SERVICE & SUPPORT

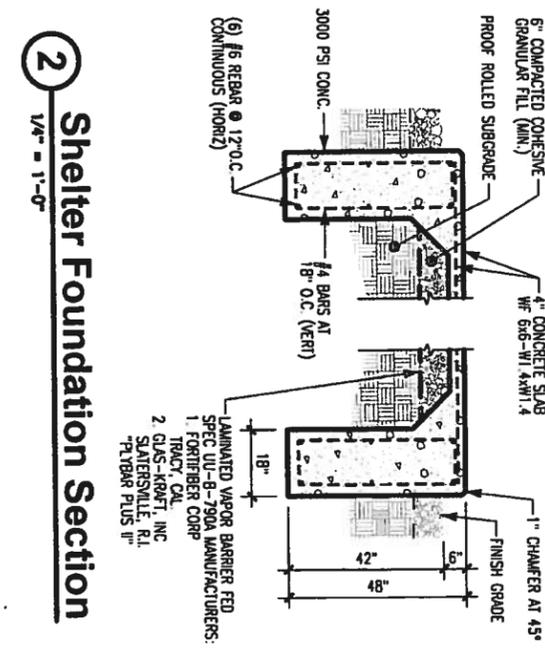


3 Typical Fence Elevation
3/16" = 1'-0"

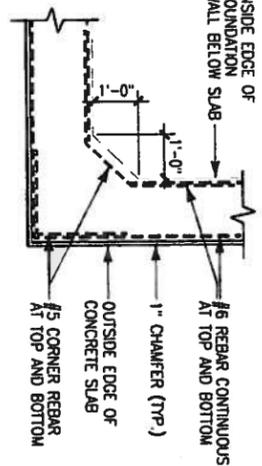


6 Site Section
NO SCALE

NOTE:
IT IS THE RESPONSIBILITY OF THE G.C. TO VERIFY THAT THE LIMESTONE IS UNIFORMLY WHITE IN COLOR AFTER PLACEMENT

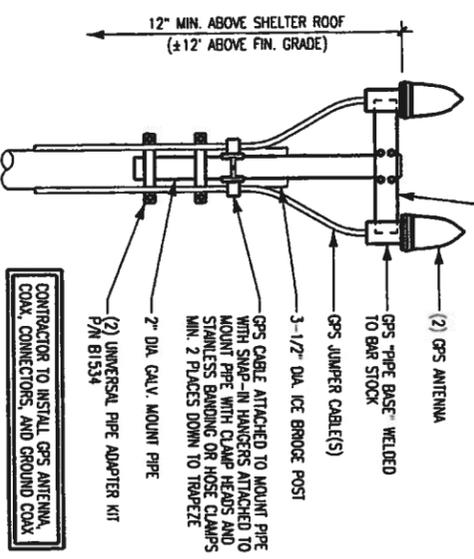


2 Shelter Foundation Section
1/4" = 1'-0"

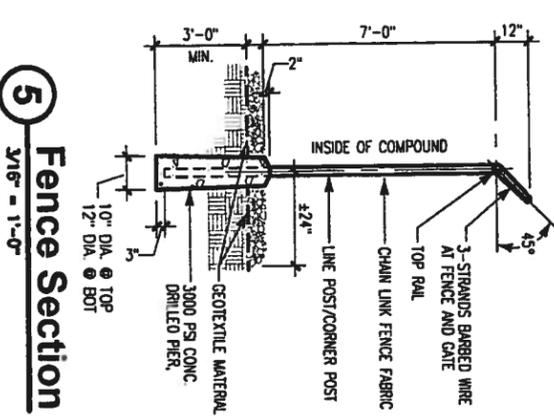


4 Corner Reinforcing
1/4" = 1'-0"

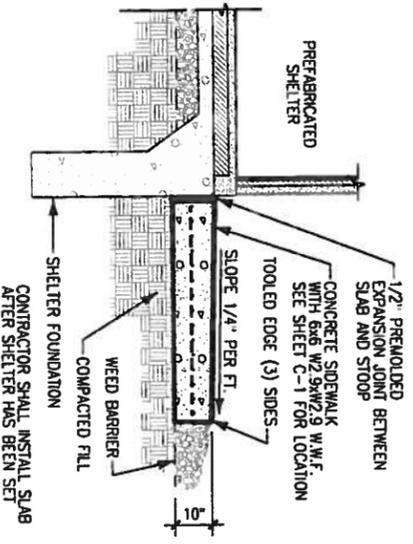
NOTES:
ALL PART NUMBERS P/N REFER TO VALMONT COMMUNICATIONS COMPLETE 27" WIDE X 10' LONG ICE BRIDGE KIT P/N 852165 27" WIDE X 20' LONG ICE BRIDGE KIT P/N 852170



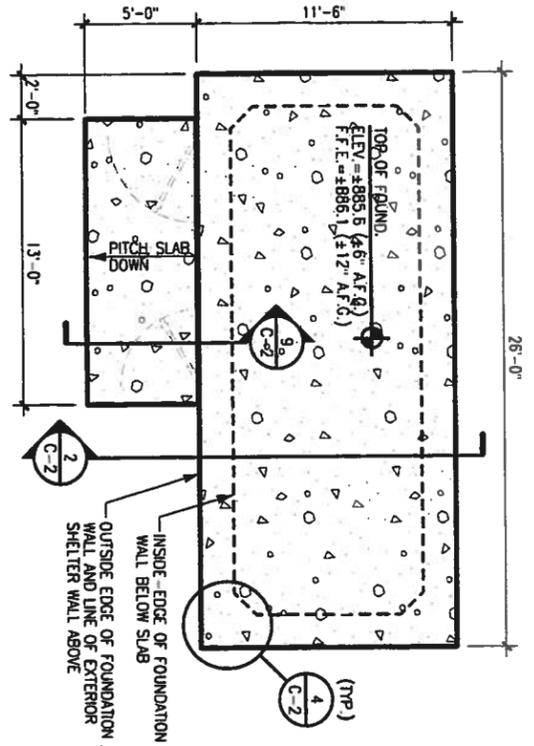
10 GPS Mount Detail
3/4" = 1'-0"



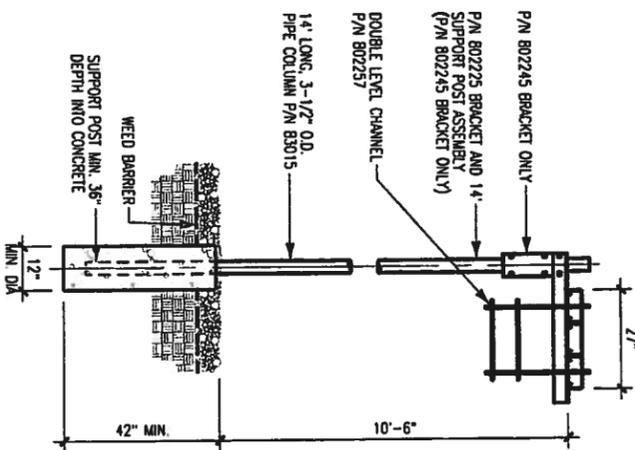
5 Fence Section
3/16" = 1'-0"



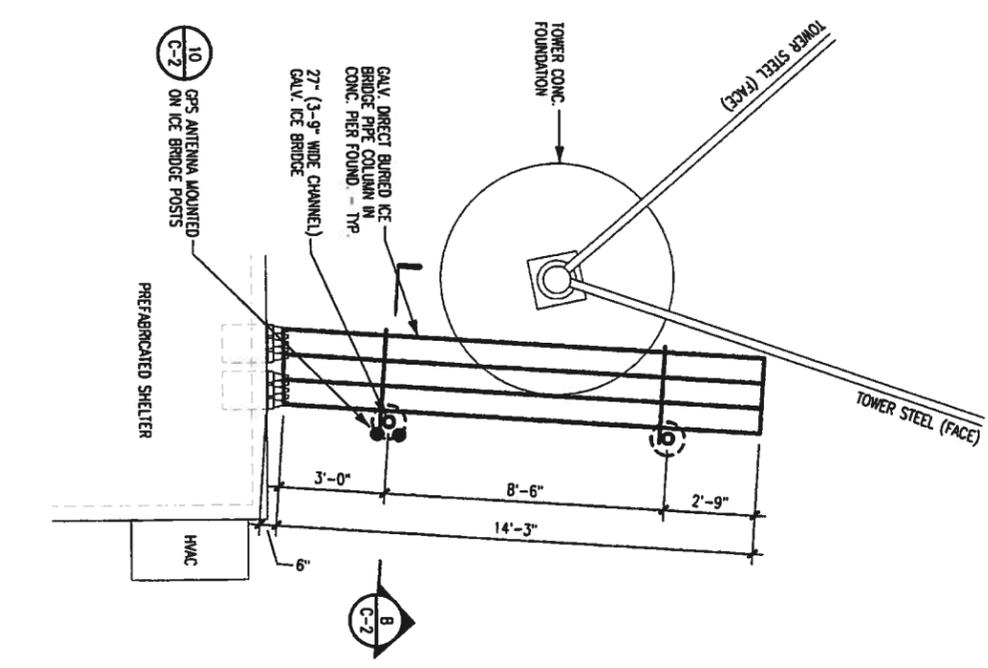
9 Concrete Stoop
1/4" = 1'-0"



1 Shelter Foundation
1/8" = 1'-0"



8 Ice Bridge Section
1/4" = 1'-0"



7 Ice Bridge Plan
3/16" = 1'-0"

GTE MOBILNET OF INDIANA LIMITED PARTNERSHIP d/b/a

verizon wireless

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AN AFFILIATE OF FORBES WIRELESS INC.
1715 BROADWAY WY., FORT WANE, INDIANA 46904
PH: (260) 436-2668 • FAX: (260) 436-2402

PRELIMINARY NOT FOR CONSTRUCTION

RELEASED	DATE	BY
07-30-12	PRELIMINARY SITE PLANS	
REVISIONS	DATE	BY

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DRAWN BY: DMM
CHECKED BY: MAM

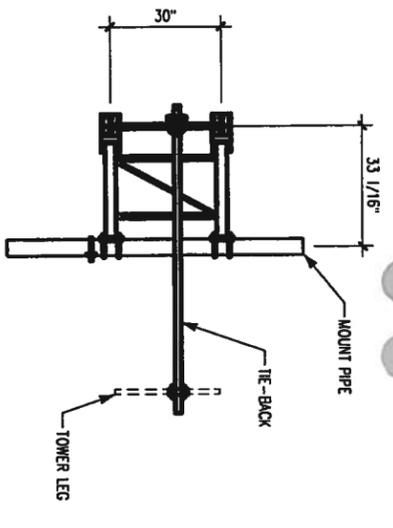
SITE NAME:
BULLDOGS CELL SITE

SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

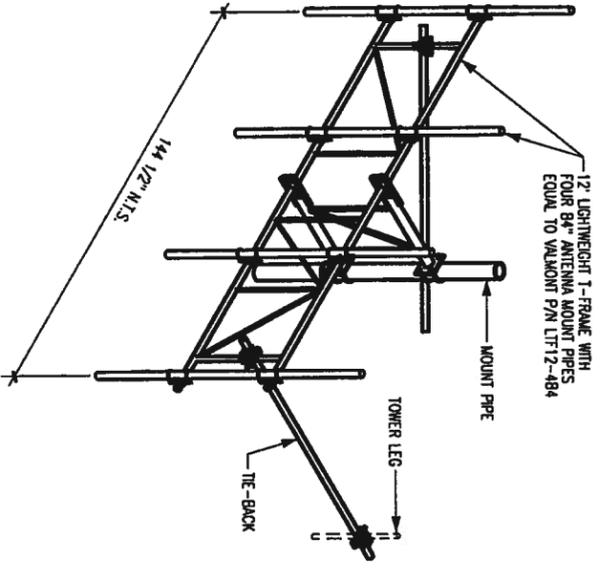
SITE TITLE:
SITE CIVIL AND SHELTER DETAILS

AAE PROJECT NO.:
001-1160

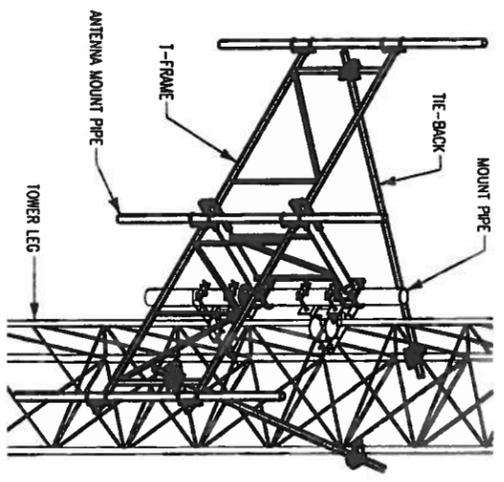
SHEET NO.:
C-2



3 T-Frame Schematic
1/4" = 1'-0"



4 T-Frame Schematic
1/4" = 1'-0"



5 T-Frame Schematic
1/4" = 1'-0"

Antenna Specifications

NO.	SECTOR	ANTENNA MANUFACTURER	ANTENNA TYPE	ELEV. (FT.)	AZ. (DEG)	MECH. DT. (DEG)	ELEC. DT. (DEG)	DIMENSION (INCHES)			ANTENNA WT. (LB.)	MAX. EXP. AREA (FT ²)	FEEDLINE SIZE	NO. OF FEEDLINES	CABLE STRIPPING
								HEIGHT	WIDTH	DEPTH					
A-1	ALPHA	ANTEL	CELLULAR PANEL	220	0	0	0	94.8	23.9	7.8	50.0	15.7	1 5/8"	1	Y-O-G
A-2	ALPHA	ANTEL	PCS PANEL	220	0	0	0	72.4	12.0	4.7	19.0	6.04	1 5/8"	2	V-Y-O-G
A-3	ALPHA	ANTEL	LTE PANEL	220	0	0	0	94.8	23.9	7.8	50.0	15.7	1 5/8"	1	BR-Y-O-G
A-4															
A-5	BETA	ANTEL	CELLULAR PANEL	220	135	0	4	94.1	11.1	6.0	25.0	7.3	1 5/8"	1	R-O-G
A-6	BETA	ANTEL	PCS PANEL	220	135	0	6	48.8	6.1	3.2	10.0	2.07	1 5/8"	2	V-R-O-G
A-7	BETA	ANTEL	LTE PANEL	220	135	0	4	94.6	11.2	4.5	24.0	7.4	1 5/8"	1	BR-R-O-G
A-8	BETA														
A-9	GAMMA	ANTEL	CELLULAR PANEL	220	255	0	4	94.1	11.1	6.0	25.0	7.3	1 5/8"	1	B-O-G
A-10	GAMMA	ANTEL	PCS PANEL	220	255	0	6	48.8	6.1	3.2	10.0	2.07	1 5/8"	2	V-B-O-G
A-11	GAMMA	ANTEL	LTE PANEL	220	255	0	4	94.6	11.2	4.5	24.0	7.4	1 5/8"	1	BR-B-O-G
A-12	GAMMA														

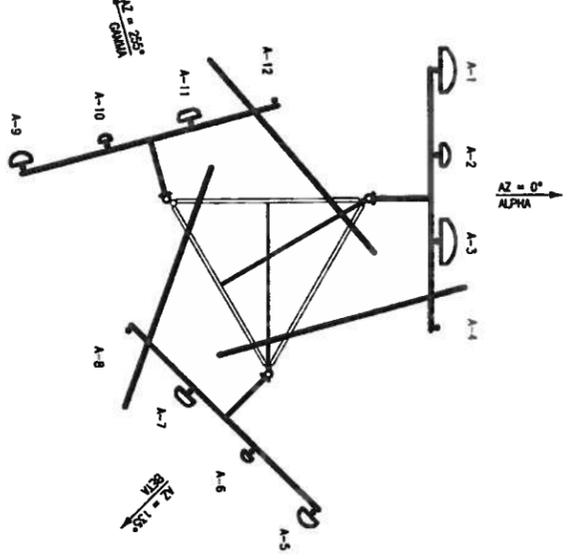
B-BLUE; BR-BROWN; G-GREEN; O-ORANGE; R-RED; V-VIOLET; W-WHITE; Y-YELLOW

- TOWER NOTES:**
1. FACE WIDTH OF TOWER APPROX. 8'-6". LEG DIA. 3 1/2". W/ 27"x27"x1/4" DIAGS. AT ANTENNA MOUNT ELEVATION.
 2. EXISTING COAX ROUTED UP NORTH AND WEST FACES OF TOWER.
 3. SAFETY CLIMB CABLE ROUTED UP EAST TOWER LEG.
 4. VERIZON WIRELESS COAX TO BE ROUTED DOUBLE STACKED (6X6) UP SOUTH FACE OF TOWER.
 5. REFER TO STRUCTURAL ANALYSIS PERFORMED BY AMERICAN TOWER ENGINEERING SERVICES, REPORT NO. 47511523, DATED MAY 11, 2012 FOR ADDITIONAL INFORMATION.

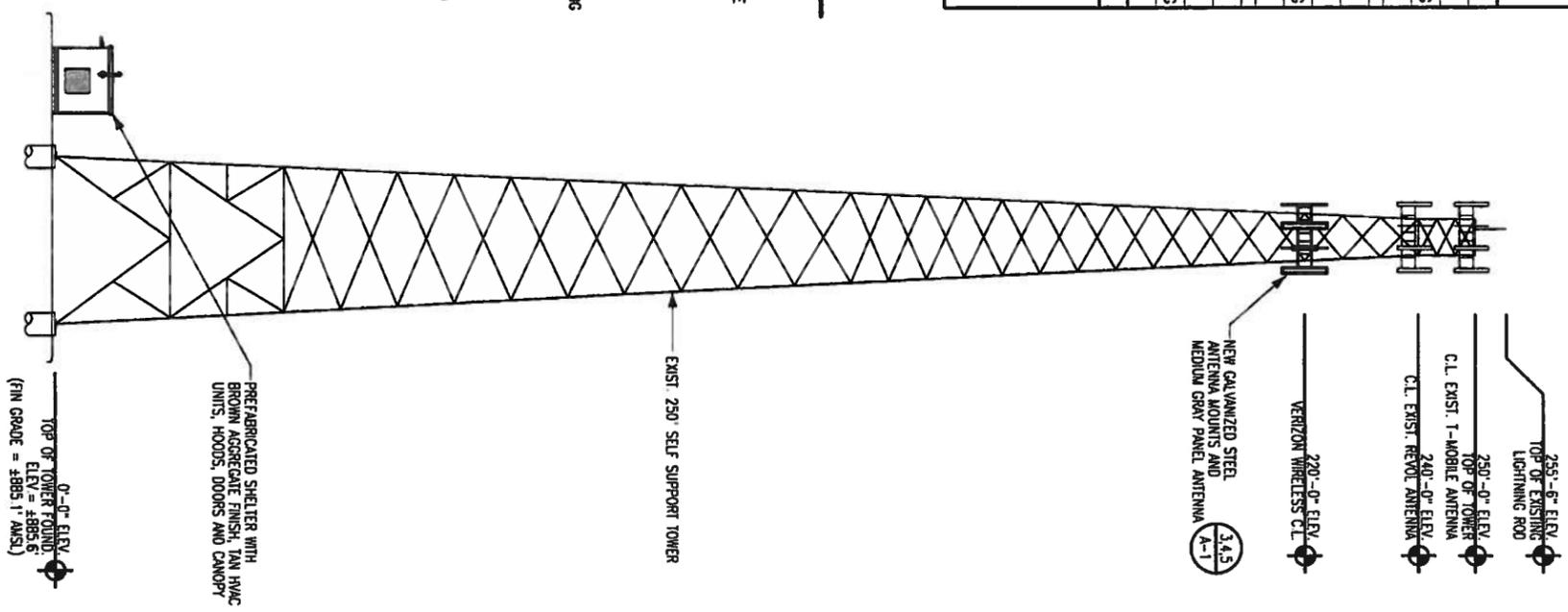
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST THE FINAL RADIO ENGINEERING PLAN PROVIDED BY VERIZON WIRELESS.

Plan Notes

1. VERIFY EACH COAXIAL CABLE LENGTH, ROUTING, AND ALL MOUNTING APERTURECES WITH OWNER PRIOR TO ORDERING.
2. THE MAXIMUM COAXIAL CABLE LENGTH HAS BEEN ESTIMATED AT 255 FEET WITH A CORRESPONDING CABLE DIAMETER OF 1 5/8". THIS CABLE LENGTH IS APPROXIMATE AND IS NOT TO BE USED FOR CONSTRUCTION. ACTUAL ANTENNA CABLE LENGTHS MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
3. TAG ALL MAIN CABLES (LABELED 1-12 TYPICAL, VERIFY WITH VERIZON WIRELESS PROJECT MANAGER) AT THREE (3) LOCATIONS:
 - A. TOP OF TOWER AT ANTENNAS
 - B. INSIDE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT
 - C. OUTSIDE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT
4. EACH COAX SHALL BE SUPPORTED WITH COLUMN GRP (CHINESE FINGER GRP) HANG FROM A J-HOOK AT TOP OF TOWER, (10" ABOVE FOR LATTICE TOWER).
5. EACH COAX SHALL BE GROUNDED AT THREE (3) LOCATIONS:
 - A. TOWER PLATFORM OR T-FRAME
 - B. TOWER BASE
 - C. OUTSIDE EQUIPMENT SHELTER AT THE WAVEGUIDE ENTRY PORT
6. COAXIAL CABLES TO BE SUPPORTED EVERY 3'-0" ON PLATFORM OR T-FRAME WITH STAINLESS STEEL HANGERS.
7. COAXIAL CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.
8. ANTENNA CONTRACTOR RESPONSIBLE FOR FABRICATING ENCLOSURE JUMPERS.



2 Antenna Azimuths
1/8" = 1'-0"



1 Tower Elevation
1" = 30'-0"

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DATE	DESCRIPTION
07-30-12	PRELIMINARY SITE PLANS

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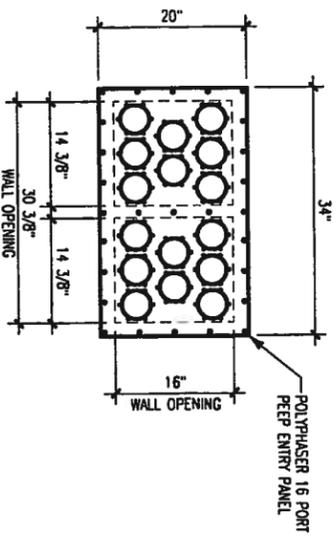
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BULLDOGS CELL SITE

SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

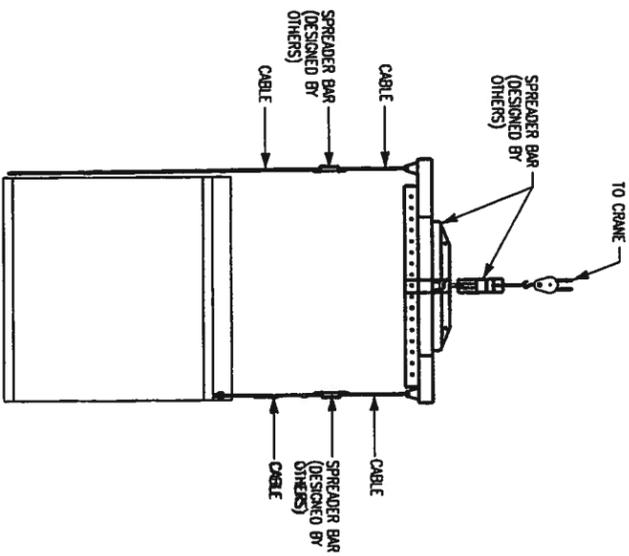
SHEET TITLE:
TOWER ELEVATION,
ANTENNA SCHEDULE,
NOTES AND DETAILS

AE PROJECT NO.:
001-1160

SHEET NO.:
A-1

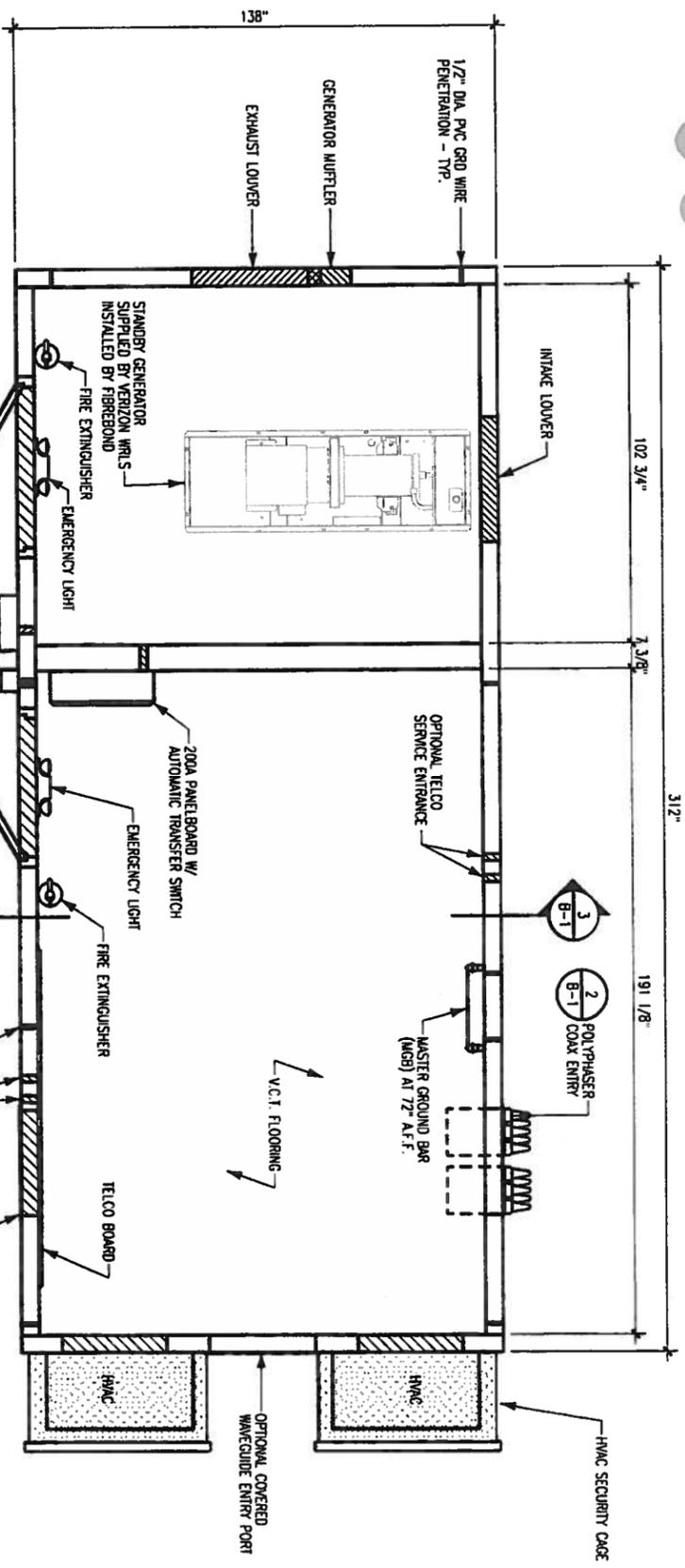


2 Polyphaser Coax Entry
1/2" = 1'-0"

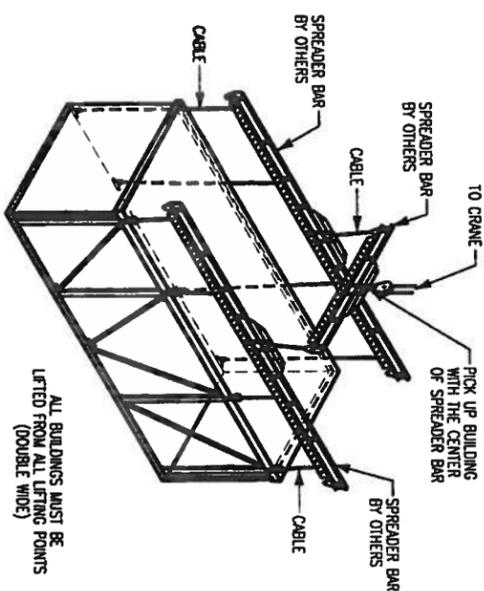


Offload Notes:

- EQUIPMENT SHELTER SHALL BE OFFLOADED LEVEL.
- ALL CABLES, SHACKLES, SPREADER BARS, ETC. SHALL BE DESIGNED AND SUPPLIED BY OTHERS.
- ALL LIFTING POINTS SHALL BE USED.
- 1 1/8" MAXIMUM DIAMETER FOR SHACKLES.
- REMOVE BRACKET AFTER PLACEMENT OF SHELTER AND INSTALL ANCHOR HE-DOWN PLATES (SHIPPED LOOSE INSIDE SHELTER) AT EACH LOCATION.
- OFFLOAD SHELTER WITH CABLES IN VERTICAL POSITION. ANGLED POSITION CABLES ARE NOT ACCEPTABLE.

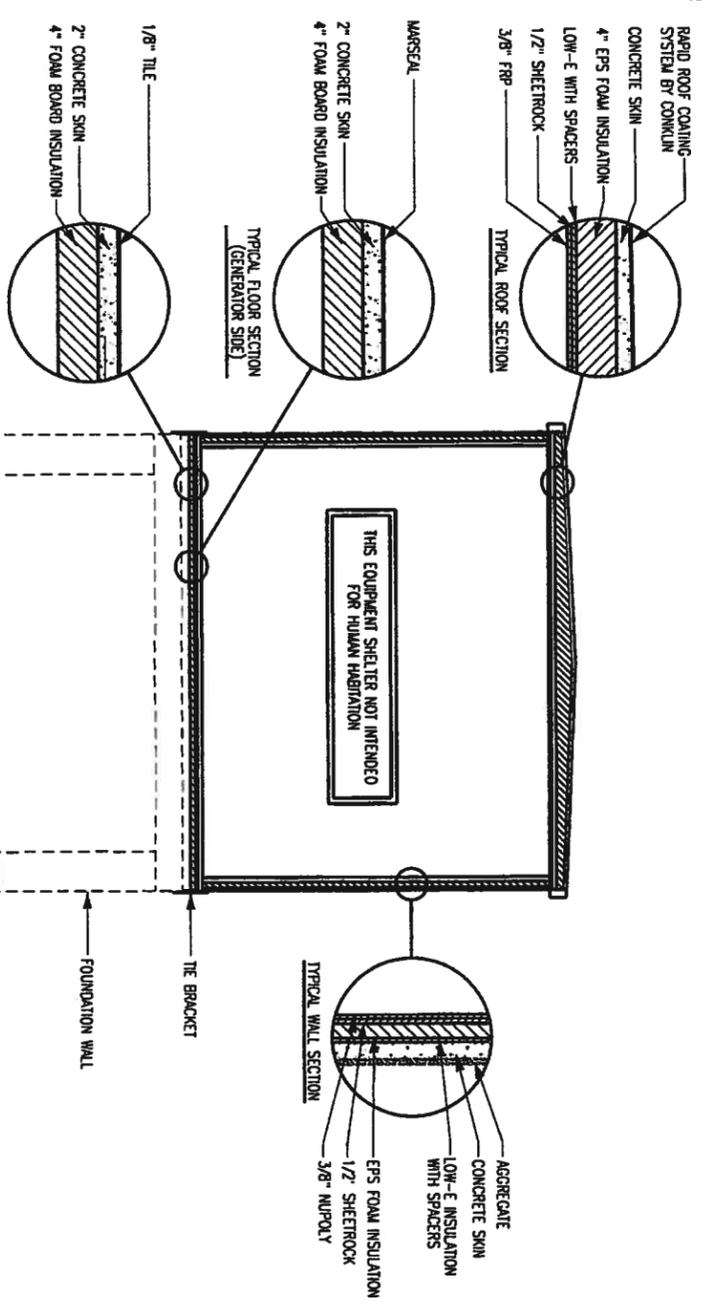


1 Equipment Shelter Floor Plan
1/4" = 1'-0"



Fibrebond Shelter Lifting Instructions:

- INSPECT BUILDING UPON DELIVERY FOR DAMAGE DURING TRANSPORTATION.
- REMOVE LIFTING BRACKETS FROM SHELTER.
- ATTACH THE DOWN BRACKETS TO SHELTER AND FOUNDATION USING ANCHOR BOLTS.
- INSTALL AND CAULK ALL ACCESSORIES (EXTERIOR LIGHT, CANDY, ICE ICE SHIELD, VENT HOODS, GROUND BARS, ETC.)
- INSPECT ROOF AND ROOF EDGE FOR DAMAGE CAUSED BY OFFLOAD AND REPAIR IF NEEDED.
- INSTALL BACKER ROD AND CAULK EXTERIOR WALLS AND ROOF.
- INSTALL FLASHING ON ALL INTERIOR MOD. LINES.
- MAKE ALL CONDUIT AND CABLE TRAY CROSSOVERS.
- CLEAN INTERIOR AND COMPLETE ANY TOUCH UP PAINTING AS NEEDED.
- CHECK DOOR ALARM FOR PROPER OPERATION.
- CHECK LIGHTING AND AIR CONDITIONING FOR PROPER OPERATION.
- INSPECT COMPLETE BUILDING FOR COSMETICS.



3 Transverse Section
NO SCALE

NOTE:
CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EXTERIOR ATTACHMENTS FOR GENERATOR (MUFFLER, VENT, ETC.), DOOR CANDY, AND SECURITY LIGHTS.

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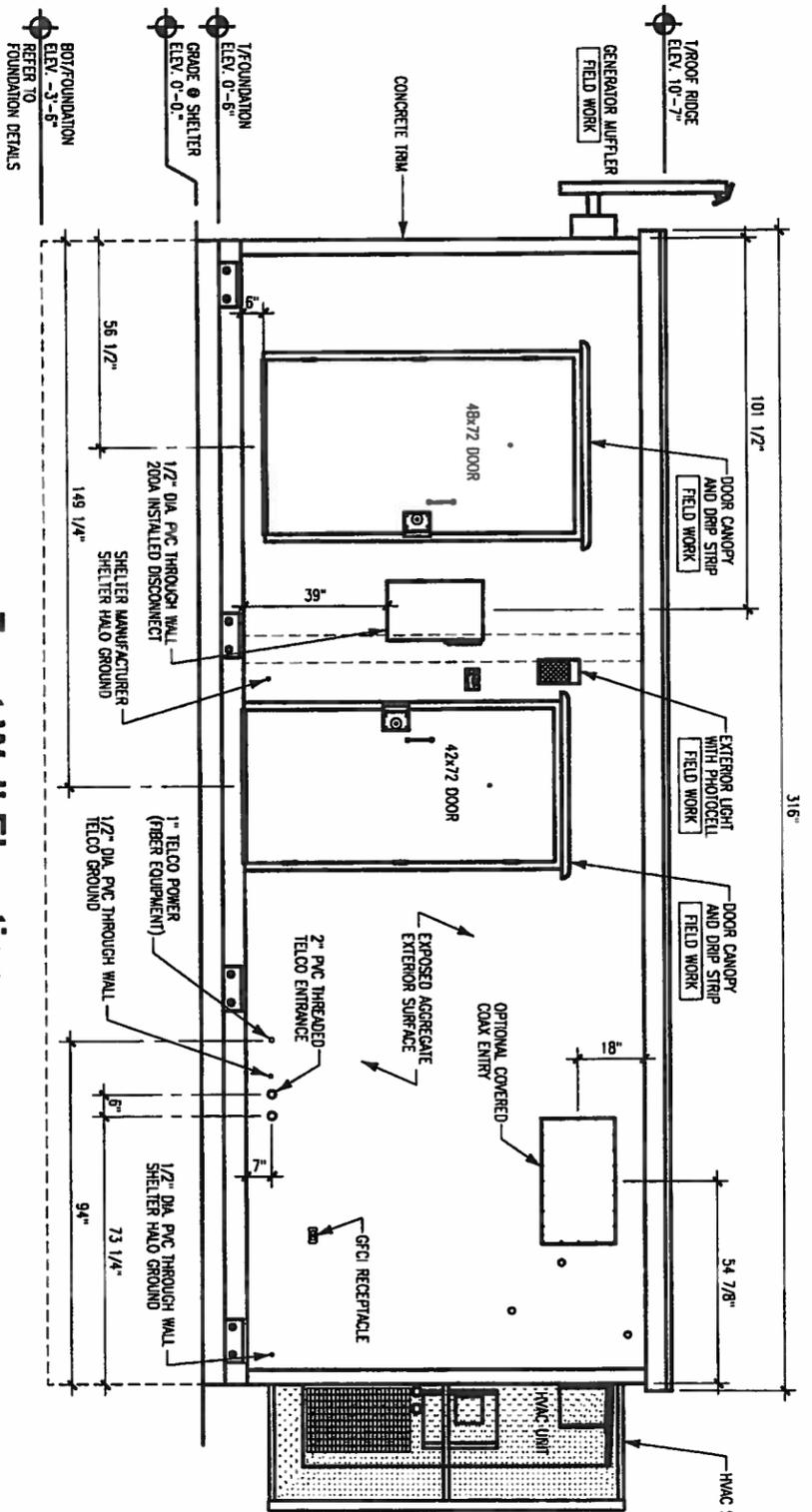
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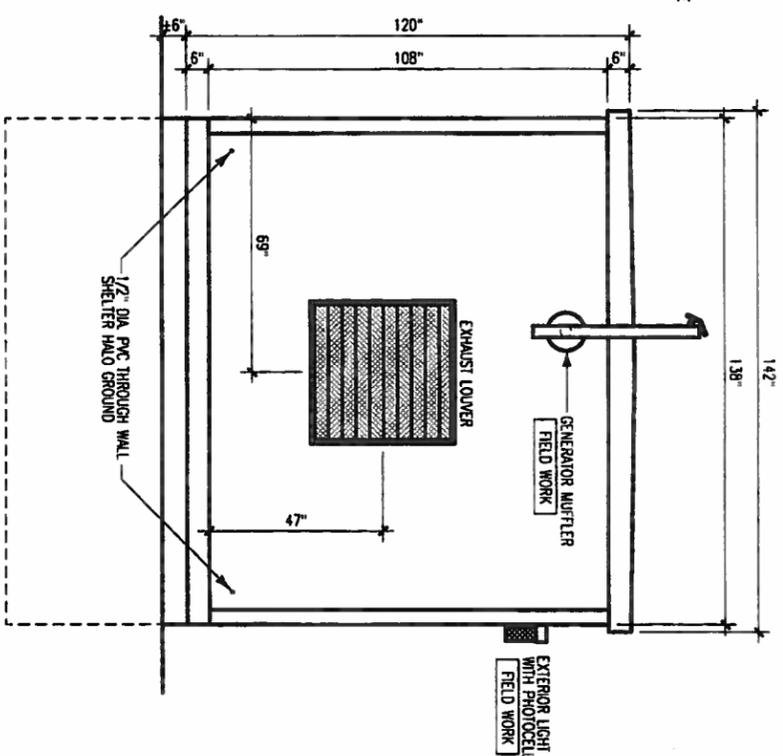
SHEET TITLE:
EQUIPMENT SHELTER PLAN, SECTION AND DETAILS

DATE PROJECT NO.:
001-1160

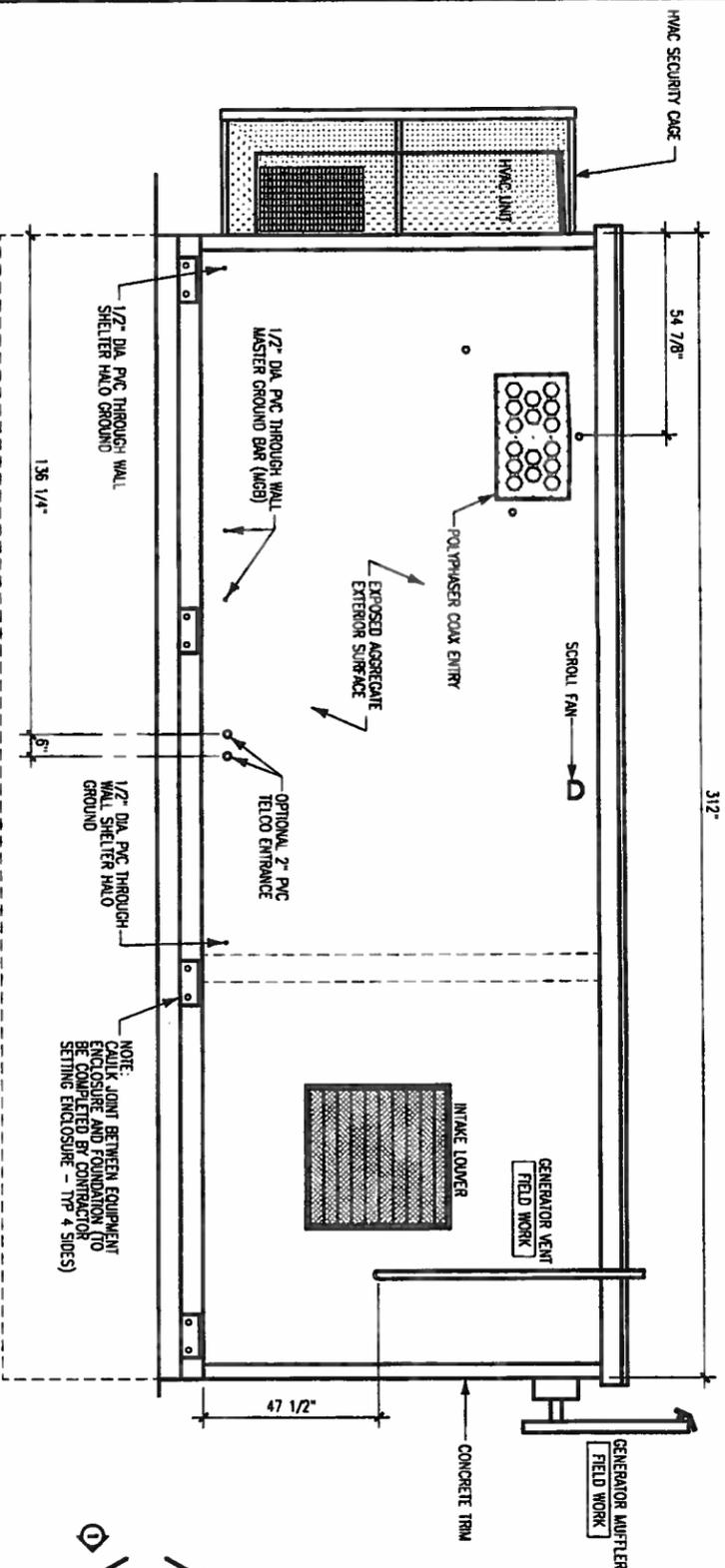
SHEET NO.:
B-1



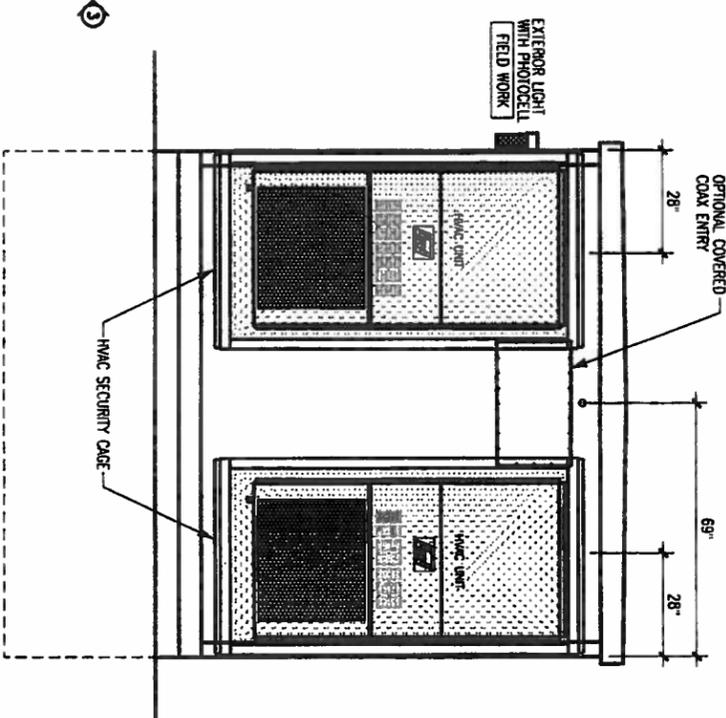
1 Front Wall Elevation
1/4" = 1'-0"



2 End Wall Elevation
1/4" = 1'-0"



3 Rear Wall Elevation
1/4" = 1'-0"



4 End Wall Elevation
1/4" = 1'-0"

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AN AFFILIATE OF FORTUNE WIRELESS INC.
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SHEET TITLE:
EQUIPMENT SHELTER
EXTERIOR ELEVATIONS

AE PROJECT NO.:
001-1160

SHEET NO.:
B-2

General Notes:

WORK INCLUDES

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR OF ALL LABOR MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS VERIZON WIRELESS SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION, AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH A BUILDING AND SECONDARY GROUNDING, CELLULAR TELEPHONE COMMUNICATIONS TOWER AND CONNECTIONS TO THE INCLUDING ELECTRICAL DISTRIBUTION EQUIPMENT
2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
3. THE PROVISION, INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL TELEPHONE SERVICE.
4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTIONS, CONDUITS, WETER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT WITHIN THE ENCLOSURE.
5. TWO INCH (2") AND THREE INCH (3") DIAMETER PVC CONDUITS SCHEDULE 40.
6. ALL PVC CONDUITS SHOULD BE LEFT WITH NUTON PULL CORPS FOR FUTURE USE.
7. EXAMINATION, BRANCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S), AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS, AND FEES

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES, STATE, LOCAL AND NATIONAL, AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:

- N.E.C.
- NATIONAL ELECTRIC CODE
- A.N.S.I.
- AMERICAN NATIONAL STANDARDS INSTITUTE
- I.E.E.E.
- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
- A.S.T.M.
- AMERICAN SOCIETY FOR TESTING MATERIALS
- N.E.M.A.
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- U.L.
- UNDERWRITERS LABORATORIES, INC.
- N.F.P.A.
- NATIONAL FIRE PROTECTION ASSOCIATION

GROUNDING ELECTRODE SYSTEM

1. CONNECTIONS ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE "COLDWELD" PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES AND LIGHTNING PROTECTION SYSTEMS AS INDICATED. GROUND FOUNDATION ONLY AS INDICATED BY P.I. ALL MATERIALS USED (WELDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY "COLDWELD" PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.
 2. GROUND CONDUIT SHALL HAVE A MINIMUM 24" BENDING RADIUS.
 3. ALL COLDWELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERMAN-WILLIAMS GALVNE (WHITE) PAINT B5093 (OR EQUAL) OR SHERMAN-WILLIAMS SILVERBRITE (ALUMINA) B59511 (OR EQUAL).
 4. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTI-OXIDANT COMPOUND APPLIED TO CONNECTION.
- FENCE/GATE:**
- GROUND FENCE POSTS WITHIN 6 FEET OF ENCLOSURE AND 25 FEET OF TOWER AS INDICATED ON DRAWINGS. GROUND EACH GATE POST AND CORNER POST. GROUND CONNECTIONS TO FENCE POSTS SHALL BE MADE BY THE "COLDWELD" PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. ALL OTHER CONNECTIONS FOR THE GROUND GND SYSTEM SHALL BE MADE BY THE "COLDWELD" PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.

UTILITY COMPANY COORDINATION:

ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SURVEYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHANGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN THE BID.

GROUND TESTS SHALL BE PERFORMED AS REQUIRED BY VERIZON STANDARD PROCEDURES. GROUND GND RESISTANCE SHALL NOT EXCEED 5 OHMS. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS FOLLOWS:

1. ONE (1) COPY TO OWNER REPRESENTATIVE
2. ONE (1) COPY TO ENGINEER
3. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE

RACEWAYS AND WIRING

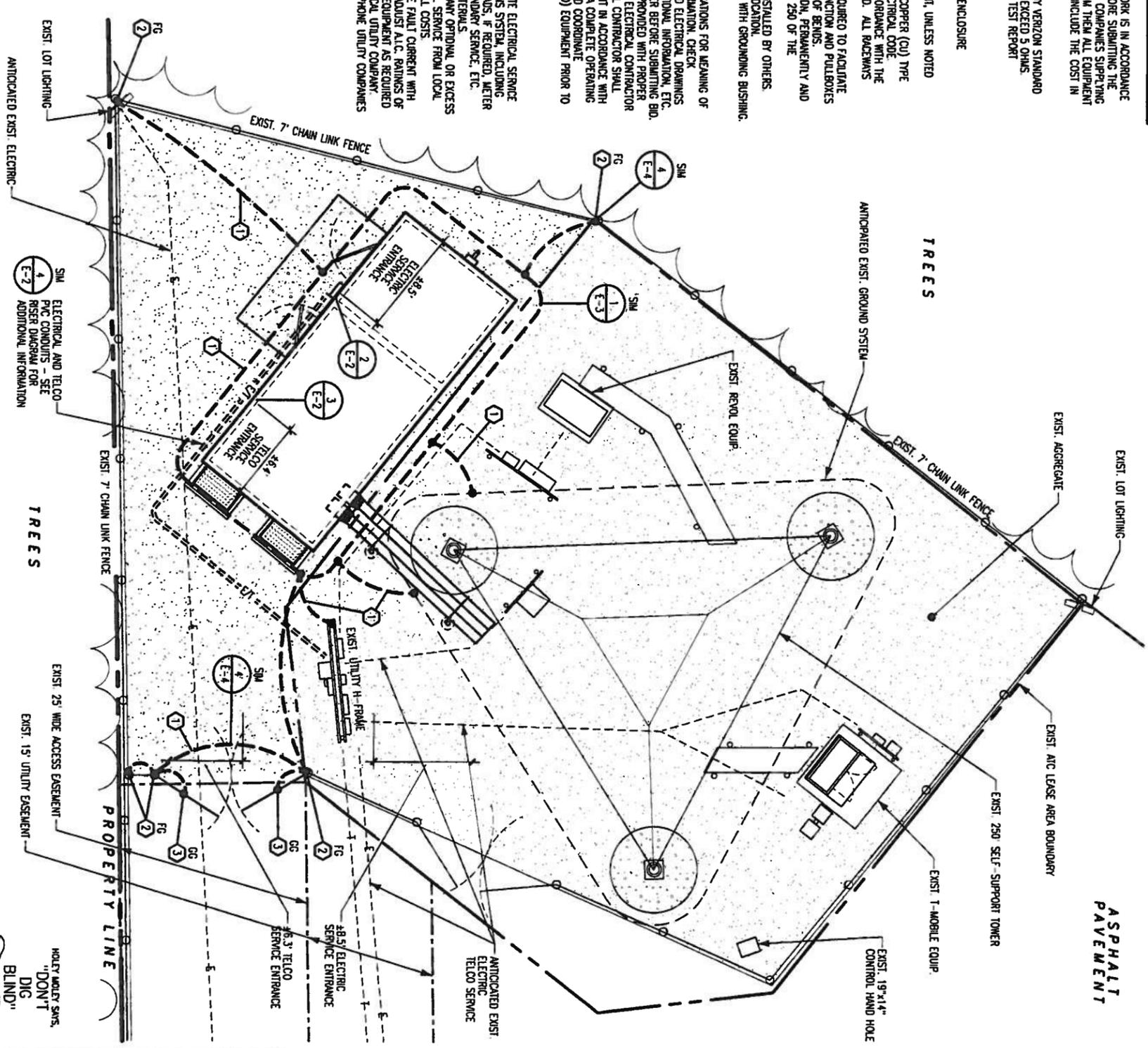
1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THIN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUND IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
6. ELECTRICAL PANELBOARD SHALL BE FURNISHED AND INSTALLED BY OTHERS.
7. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS AND SCHEDULES ON DRAWINGS AND SPECIFICATIONS FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO RUN-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCIETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL, OR EXCESS FACILITY CHANGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST ALLC, RATINGS OF ALL OVERCURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY. ALL GROUNDING RODS PROVIDED BY THE POWER OR TELEPHONE UTILITY COMPANIES MUST BE TIED INTO THE MAIN EXTERNAL GROUND RING.



LEGEND:

- ① #2 BARE, TANKED, SOLID COPPER GROUND 42" BELOW GRADE
- ② COLDWELD TO FENCE POST
- ③ BOND GATE LEAF TO GATE POST WITH A FLEXIBLE GATE JUMPER
- ④ GROUND ROD
- ⊙ GROUND SYSTEM TEST WELL (HAND HOLE)
- COLDWELD CONNECTION
- FENCE LINE

Utility Site Plan



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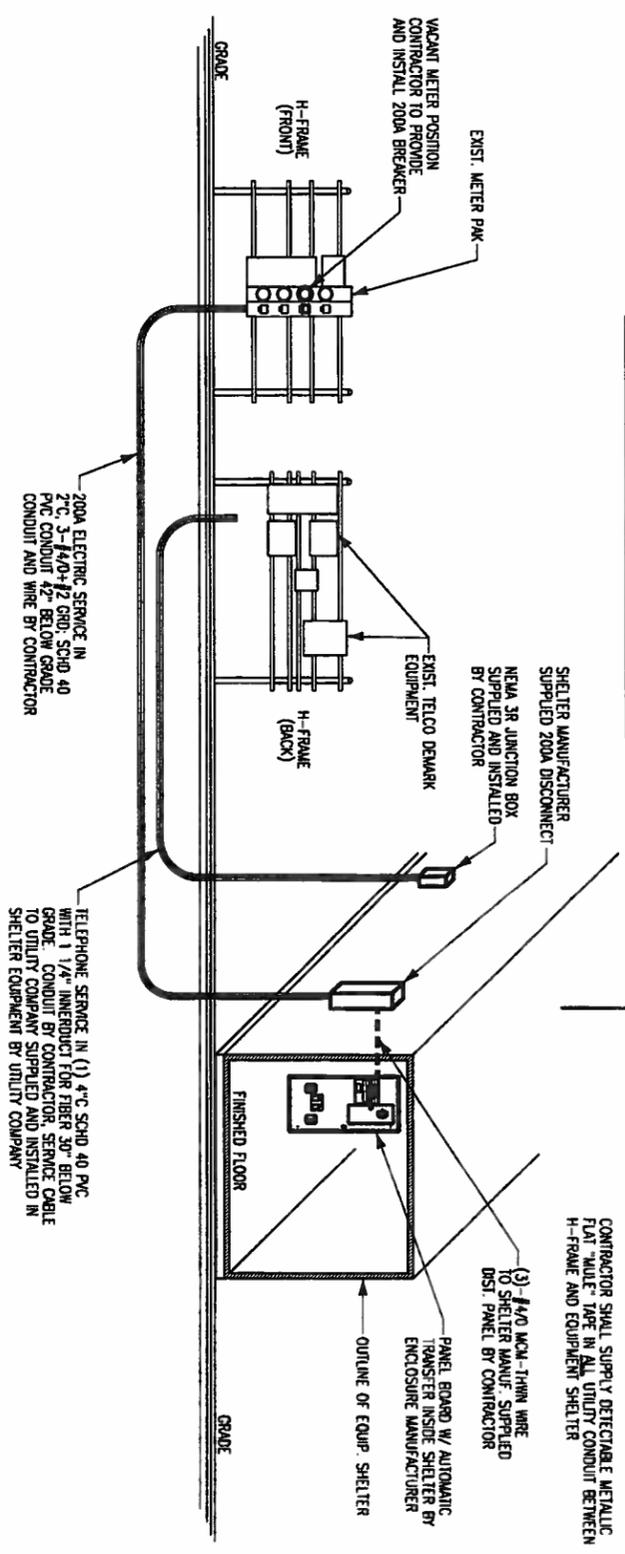
SHEET TITLE:
UTILITY AND GROUNDING SITE PLANS AND NOTES

DATE PROJECT NO.:
001-1160

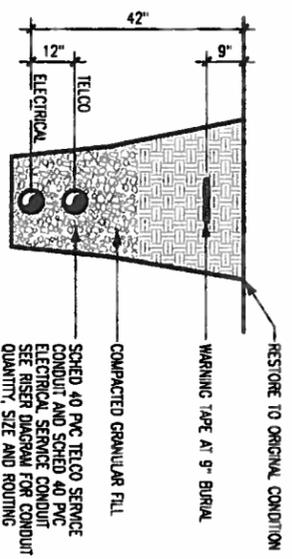
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CONTRACTOR SHALL BUILD INTO THE PRICE OF THE BID THE COST OF TWO (2) MOBILIZATIONS:
 1) POWER/TELECO PERMIT PULLED PRIOR TO BUILDING PERMIT AND PRELIMINARY WORK (SMART JACK ON A STICK, ETC)
 2) RETURN TO COMPLETE GENERAL ELECTRICAL CONSTRUCTION

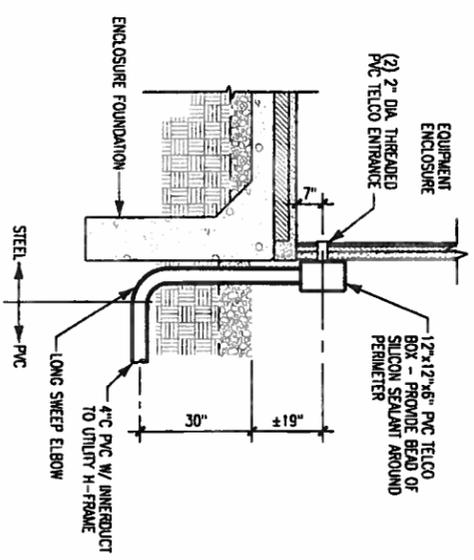
CONTRACTOR SHALL SUPPLY DETECTABLE METALLIC FLAT "WALKER" TAPE IN ALL UTILITY CONDUIT BETWEEN H-FRAME AND EQUIPMENT SHELTER
 ALL CONDUIT FROM AND INCLUDING 90 DEG. ELBOW UP TO ABOVE GRADE TO BE STEEL
 ALL CONDUIT ELBOWS TO BE SWEEPING 90° ONLY, NO SHARP BENDS
 CONTRACTOR TO COORDINATED ALL INSPECTIONS. SAFETY LIGHT AFTER PERMANENT POWER HAS BEEN ESTABLISHED
 ELECTRICAL CONTRACTOR MANUFACTURER ENCLOSURE MANUFACTURER



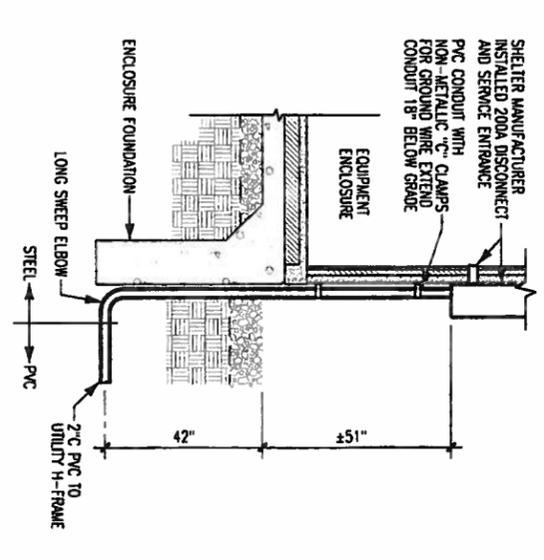
1 Utility Riser Diagram
 NO SCALE



4 Buried Utility Detail
 NO SCALE



3 Telco Service Entrance
 1/4\"/>



2 Electric Service Entrance
 1/4\"/>

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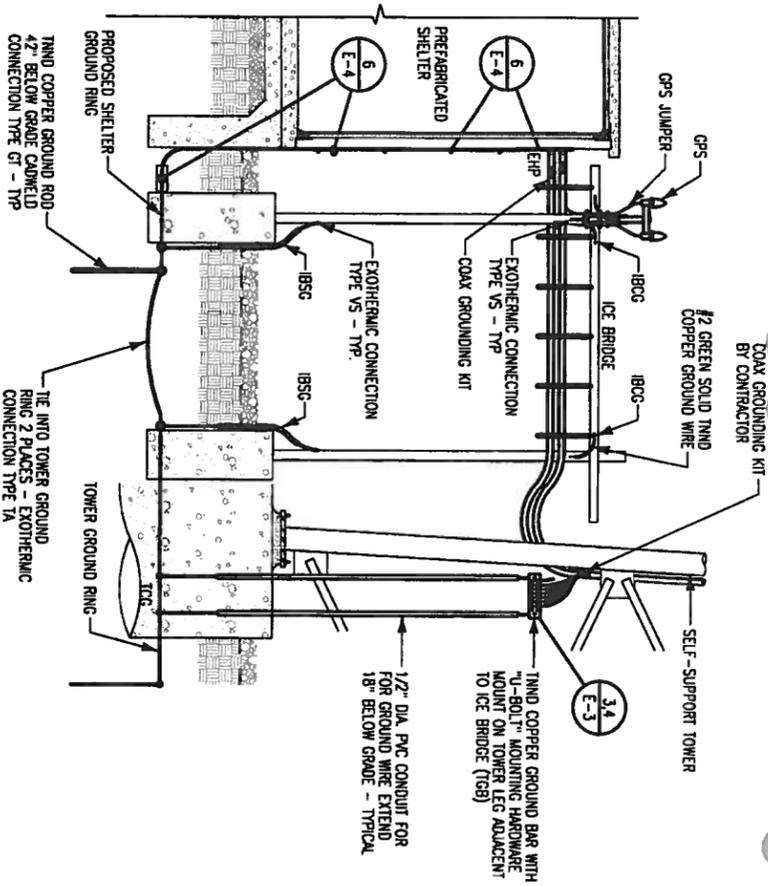
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 6890 N. STATE ROAD 267
 BROWNSBURG, IN 46112
SHEET TITLE:
 ELECTRIC AND TELCO UTILITY DETAILS

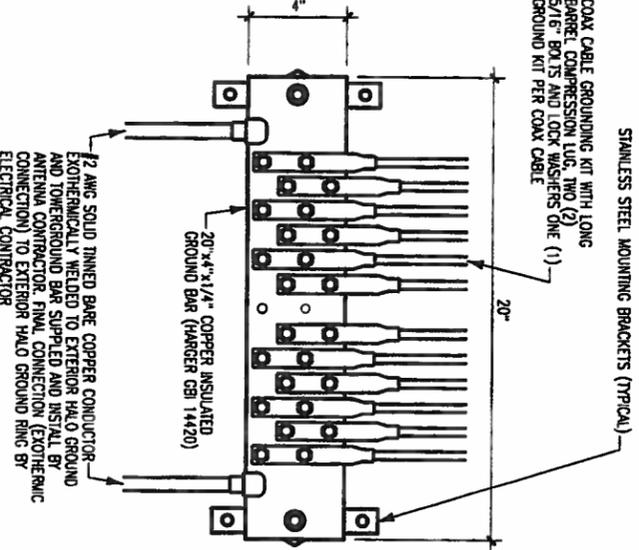
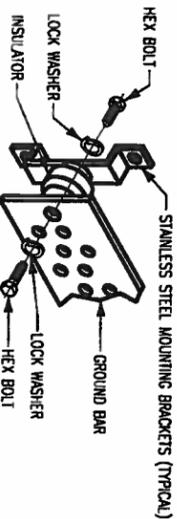
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SHEET NO.:
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Legend:

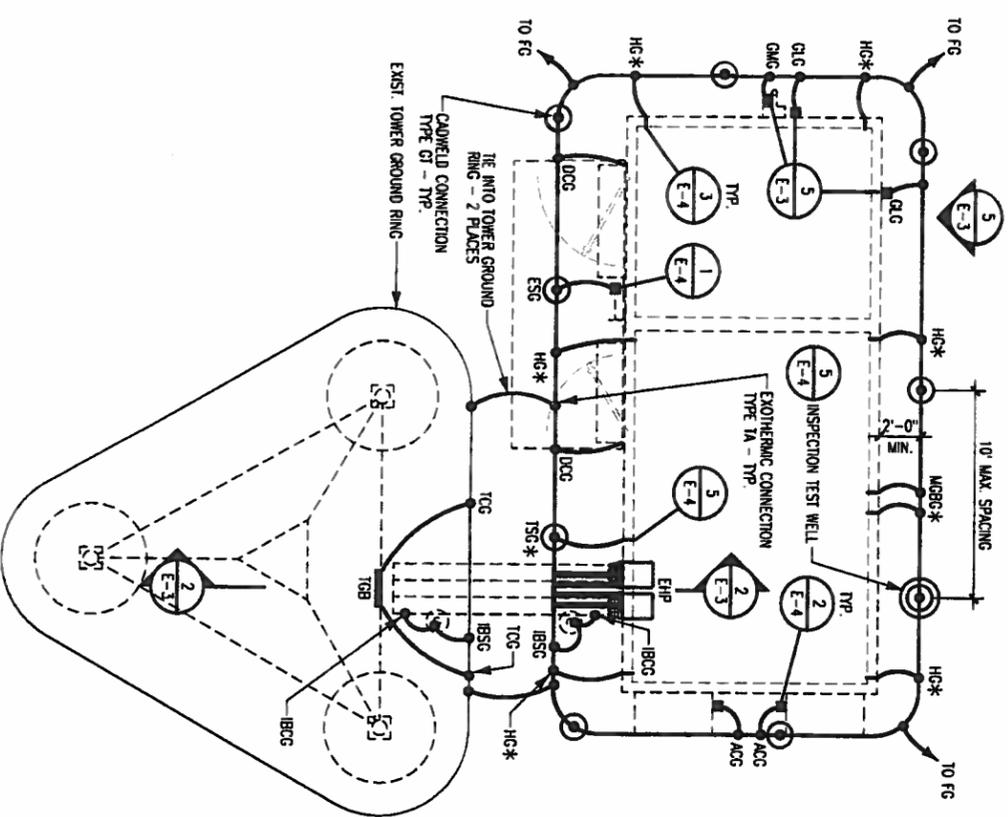
- FG FENCE GROUND: E.C. TO FURNISH AND INSTALL #2 ANG BARE SOLID TINNED COPPER GROUND WIRE AT FENCE POST. GROUND WIRE TO BE ROUTED ALONG FENCE POST AND COWELED FOUR (4) PLACES, TOP RAIL, TOP AND BOTTOM OF CORNER POST, AND GROUND RING.
- GG GATE GROUND: SIMILAR TO FENCE GROUND (FG). E.C. SHALL FURNISH AND INSTALL (1) #2 BRAIDED GATE JUMPER WIRE BETWEEN THE GATE FRAME AND THE GATE POST. CONNECTIONS AT GATE FRAME AND GATE POST TO BE COWELED.
- TG TOWER LEGS TO TOWER GROUND: ALL CONNECTIONS TO BE COWELED.
- TGB TOWER COAX GROUND BAR (TGB) : E.C. TO FURNISH AND INSTALL (1) 20"-x-1/4" TINNED COPPER GROUND BARS ON THE TOWER, ONE TO BE LOCATED AT ANTENNA MOUNT ELEVATION (ATTACHED TO TOWER STEEL), THE OTHER AT THE BASE OF TOWER ADJACENT TO ICE BRIDGE (ISOLATED FROM TOWER STEEL).
- TCG TOWER COAX GROUND: E.C. SHALL FURNISH AND INSTALL (2) #2 ANG BARE SOLID TINNED COPPER GROUND WIRES FROM TOWER COAX GROUND BAR (TGB) TO THE GROUNDING RING. BOTH CONNECTIONS ARE COWELED.
- IBCC ICE BRIDGE CHANNEL GROUND: E.C. SHALL FURNISH AND INSTALL (1) #2 ANG BARE SOLID TINNED COPPER GROUND JUMPER WIRE FROM ICE BRIDGE CHANNEL TO ICE BRIDGE POST. CONNECTION AT ICE BRIDGE POST TYPE VS COWELED, 2-HOLE LUG CONNECTION AT ICE BRIDGE CHANNEL.
- IBSG ICE BRIDGE SUPPORT GROUND: E.C. SHALL FURNISH AND INSTALL (1) #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM ICE BRIDGE SUPPORT COLLUM TO GROUNDING RING. BOTH CONNECTIONS ARE COWELED.
- MSBG MASTER GROUND BAR (MSBG) GROUND: E.C. TO EXTEND (2) SHELTER MANUF. SUPPLIED AND INSTALLED #2 ANG BARE SOLID TINNED COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS COWELED.
- ACC AIR CONDITIONER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM CABINET OF HVAC UNIT TO GROUNDING RING. CONNECTION TO CABINET IS MECHANICAL.
- ESG ELECTRICAL SERVICE GROUND: E.C. SHALL FURNISH AND INSTALL #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM ELECTRICAL SERVICE DISCONNECT TO (1) 5/8" DIA-10'-0" TINNED COPPER CLAD STEEL GROUND ROD (10' AT 4'-2" BELOW FINISH GRADE) AND GROUND RING.

NOTE:
 ISOLATORS TO BE USED ON GROUND BAR AT BASE OF TOWER ADJACENT TO ICE BRIDGE ONLY. GROUND BAR AT ANTENNA ELEVATION TO BE ATTACHED TO DIRECTLY TO TOWER STEEL.

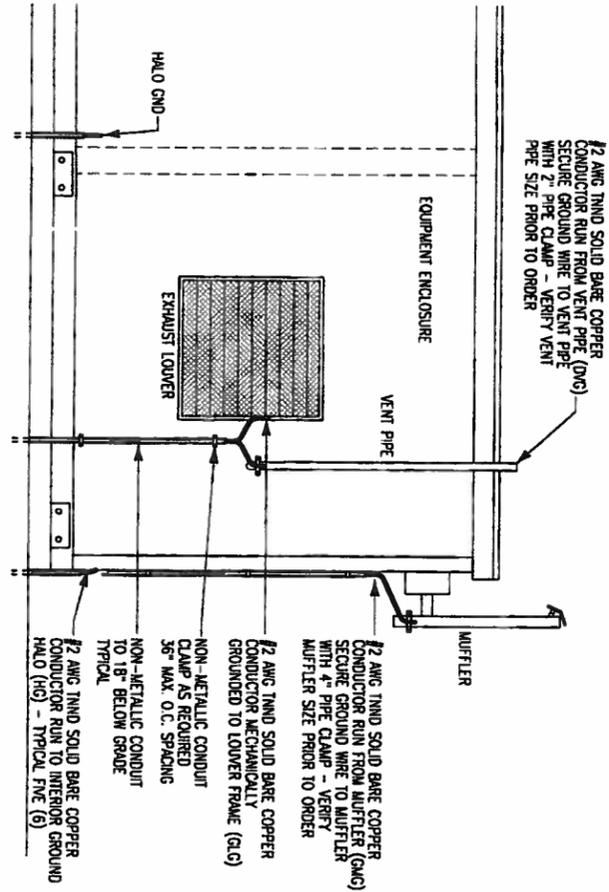


- HG HALO GROUND: E.C. TO EXTEND SIX (6) SHELTER MANUF. SUPPLIED AND INSTALLED #2 ANG BARE SOLID TINNED COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS COWELED.
- EHP EXTERIOR SWITCH PLATE (POLYPHOSER): E.C. TO PROVIDE AND INSTALL (4) 6" WIDE COPPER GROUND STRAP FROM POLYPHOSER TO COPPER SANDWICH BAR AT GROUNDING RING.
- GLG GENERATOR LOWER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 ANG SOLID TINNED COPPER GROUND WIRE FROM GENERATOR LOWER FRAME TO GROUNDING RING. CONNECTION TO LOWER FRAME IS MECHANICAL, CONNECTION TO GROUNDING RING IS COWELED.
- GGC GENERATOR UPPER GROUND: E.C. TO PROVIDE AND INSTALL #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM GENERATOR UPPER FRAME TO GROUNDING RING. SECURE GROUND WIRE TO MUFFLER WITH PIPE CLAMP (VERIFY MUFFLER SIZE PRIOR TO ORDER). CONNECTION AT GROUNDING RING IS COWELED.
- DNVC DIESEL FUEL VENT GROUND: E.C. TO PROVIDE AND INSTALL #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM DIESEL FUEL VENT PIPE TO GROUNDING RING. SECURE GROUND WIRE TO VENT PIPE WITH PIPE CLAMP (VERIFY VENT PIPE SIZE PRIOR TO ORDER).
- DDC DOOR CANOPY GROUND: E.C. TO PROVIDE AND INSTALL #2 ANG BARE SOLID TINNED COPPER GROUND WIRE FROM DOOR CANOPY TO GROUNDING RING. GROUND WIRE TO BE ROUTED IN 1/2" NON-METALLIC CONDUIT SECURED TO SHELTER WALL W/ CONDUIT CLAMP 36" MAX. O.C. AS REQUIRED. CONNECTION AT GROUNDING RING IS COWELED.
- GR 5/8" DIA-10'-0" TINNED COPPER CLAD STEEL GROUND ROD (HARGER 8810) DRIVEN VERTICAL TO 4'-2" BELOW GROUND SPACING OF THE GROUND RODS SHALL BE MAXIMUM 10'. ALL CONNECTIONS TO BE COWELED.
- * SHELTER PENETRATION: SEAL BOTH SIDES OF SHELTER PENETRATION WITH SILICONE SEALANT.

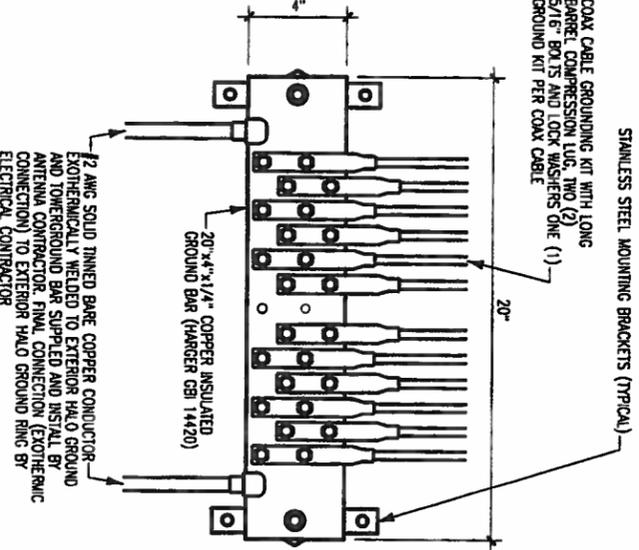
NOTE:
 ALL GROUND LEADS AT TOWER, ICE BRIDGE SUPPORT POSTS, FENCE POSTS, GROUND BARS, ETC. TO BE ROUTED IN 1/2" DIA. FLEXIBLE NON-METALLIC PVC CONDUIT. SECURE GROUND LEADS AT SHELTER TO AT LEAST ONE (1) NON-METALLIC RIGID PVC CONDUIT SECURED TO SHELTER WALL OR SHELTER FOUNDATION WITH AT LEAST ONE (1) NON-METALLIC CONDUIT CLAMP (36" MAX. SPACING). CONDUIT TO BE 4" MAX. FROM COWELED TO 18" BELOW FINISH GRADE.



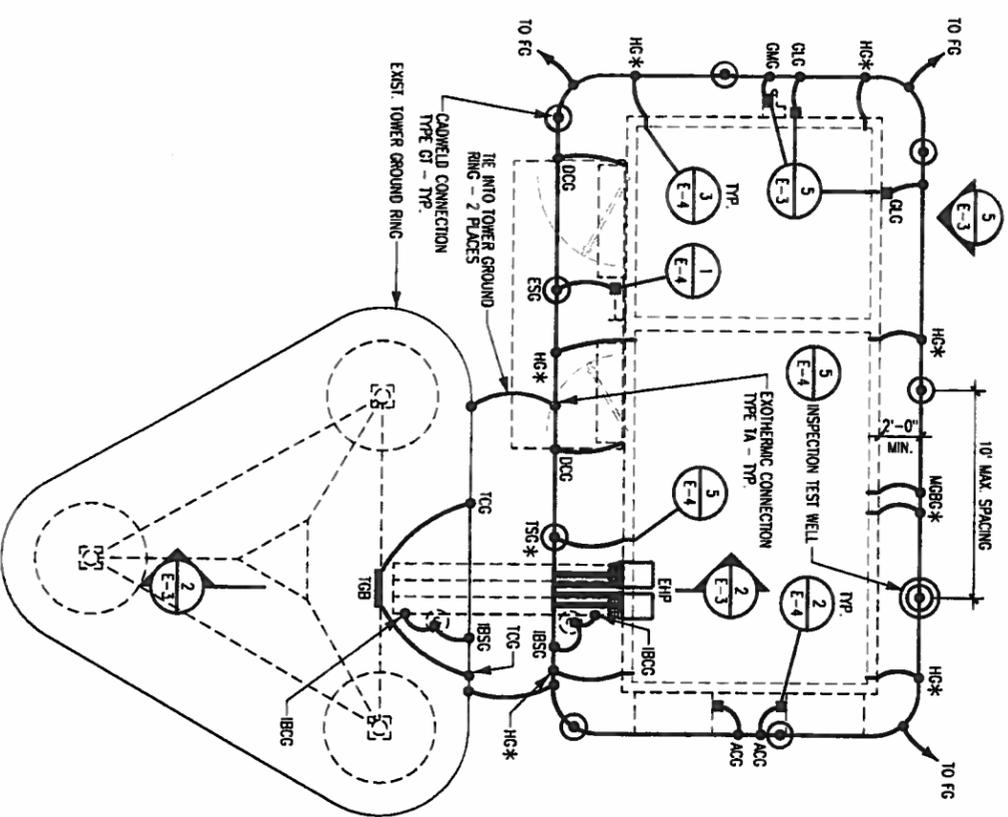
5 Shelter Grounding Elevation
 1/4" = 1'-0"



4 Tower Ground Bar (TGB)
 NO SCALE



1 Shelter and Tower Grounding Schematic
 1/8" = 1'-0"
 CONTRACTOR TO ADJUST FOR SITE CONDITIONS



GTE MOBILNET OF INDIANA
 LIMITED PARTNERSHIP d/b/a
verizon
 Wireless

MAGTECH SERVICES, INC.
 AN AFFILIATE OF FORMER WARRIOR INC.
 1715 MORGAN WAY, FORT WARRIOR, INDIANA 46004
 Ph: (260) 435-2668 • Fax: (260) 435-2402

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS	DATE

SITE NAME:
BULLDOGS CELL SITE

SITE ADDRESS:
 6890 N. STATE ROAD 267
 BROWNSBURG, IN 46112

SHEET TITLE:
 GROUNDING SCHEMATICS AND DETAILS

DATE:
 07-30-12 PRELIMINARY SITE PLANS

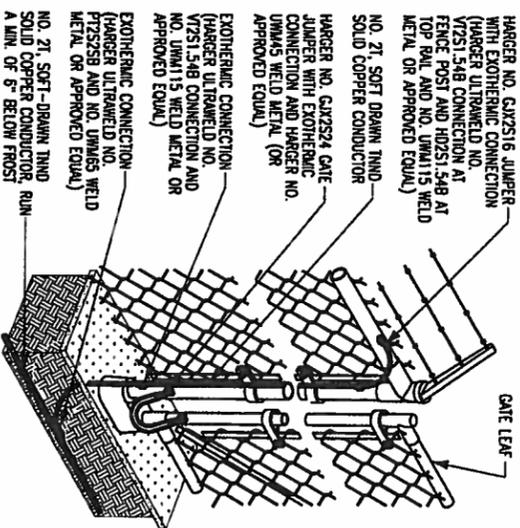
DATE:
 07-30-12 PRELIMINARY SITE PLANS

PROJECT NO.:
 001-1160

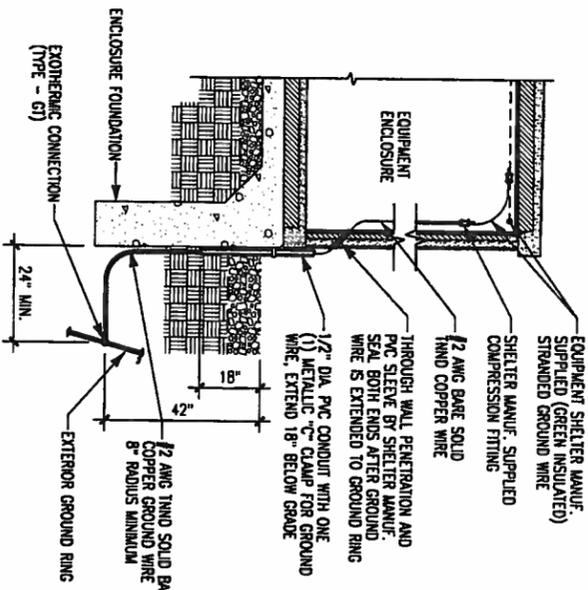
SHEET NO.:
 E-3

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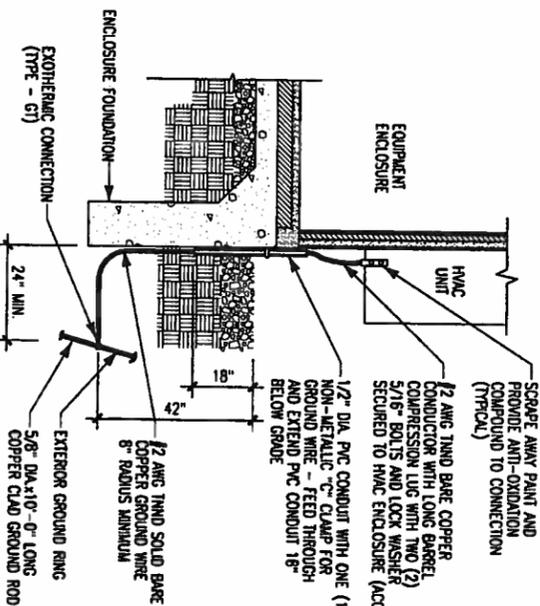
DRAWN BY: DAH
CHECKED BY: MAH



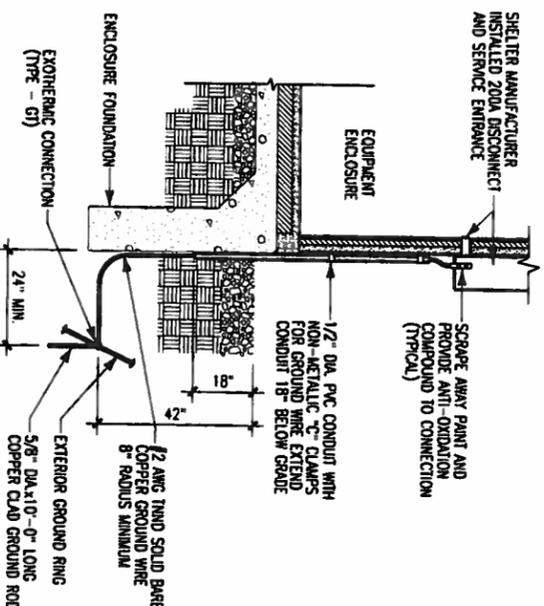
4 Fence and Gate Grounding Detail
NO SCALE



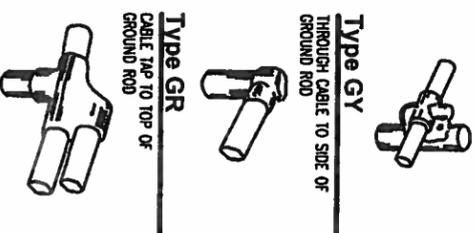
3 Halo (HG) Grounding
1/4" = 1'-0"



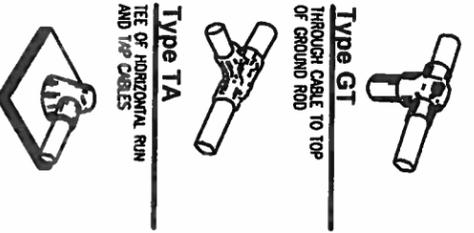
2 HVAC (ACG) / Metallic Components Grounding
1/4" = 1'-0"



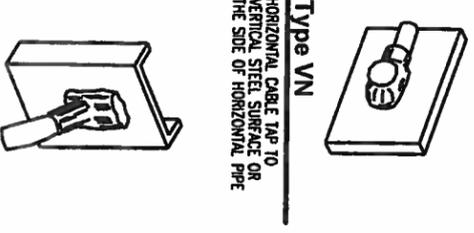
1 Electric Service Grounding
1/4" = 1'-0"



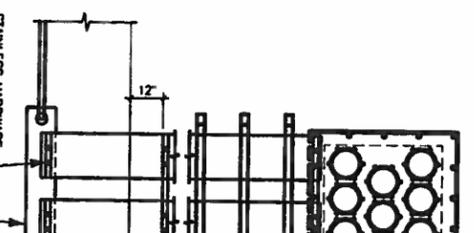
Type GY
THROUGH CABLE TO SIDE OF GROUND ROD



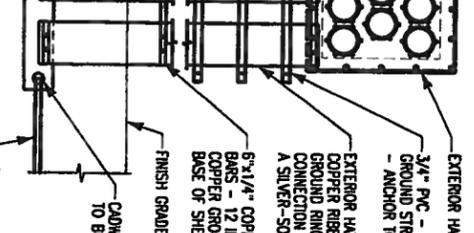
Type GT
THROUGH CABLE TO TOP OF GROUND ROD



Type VN
HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE



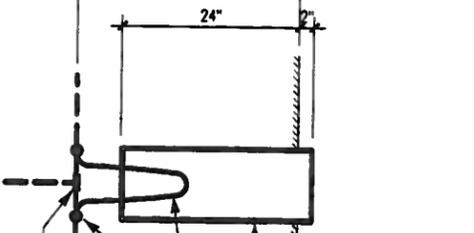
Type VI
HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE



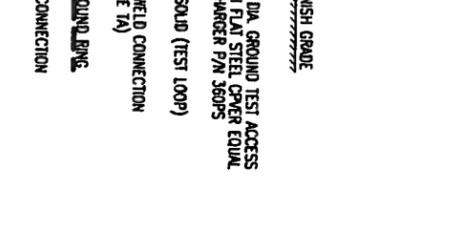
Type VS
CABLE TAP DOWN AT 45° TO VERTICAL STEEL SURFACE OR SIDE OF HORIZONTAL OR VERTICAL PIPE



Type TA
TEE OF HORIZONTAL RIM AND TAP CABLES



Type HS
HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE. CABLE OFF SURFACE



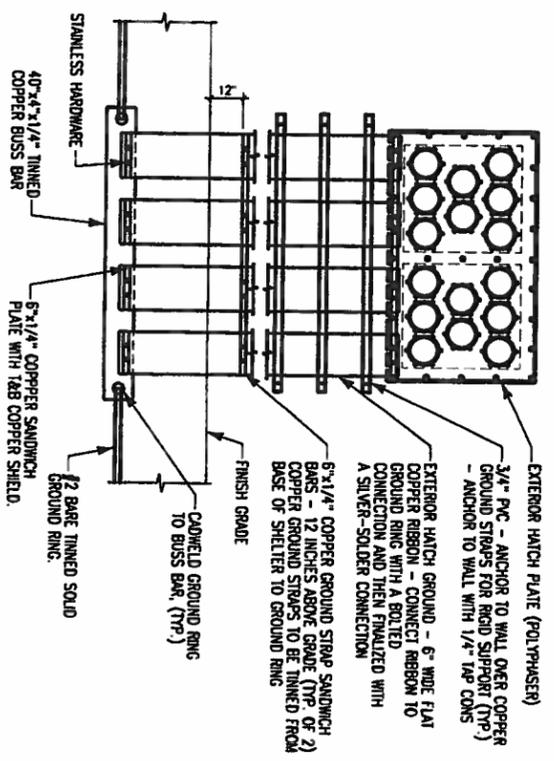
Type NC
THROUGH AND TAP CABLES TO GROUND ROD



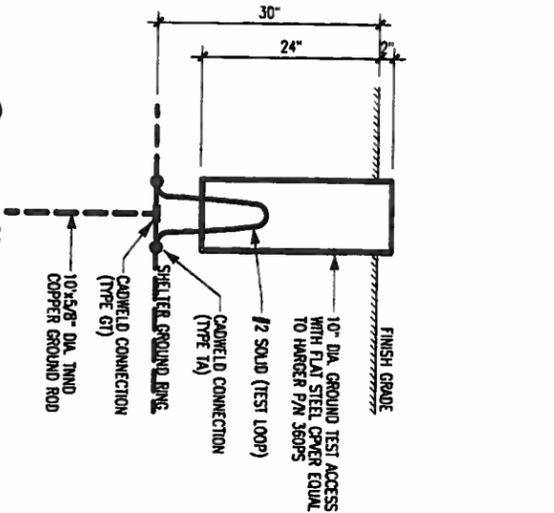
Type XB
CROSS OF HORIZONTAL CABLES LAPPED AND NOT CUT



Type W
THROUGH VERTICAL CABLE TO VERTICAL STEEL SURFACE OR HORIZONTAL OR VERTICAL PIPE



6 Coax Entry Protection
NO SCALE



5 Grounding Inpection Handhole Detail
1/2" = 1'-0"

7 Exothermic (Cadweld) Connections
NO SCALE

GTE MOBILENET OF INDIANA LIMITED PARTNERSHIP d/b/a

MAGTECH SERVICES, INC.
AN AFFILIATE OF FORNITE WIRELESS, INC.
1715 BURGESS BLVD. FORT WAYNE, INDIANA 46804
PH: (260) 436-2688 • FAX: (260) 436-2402

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REVISIONS	DATE	BY	DESCRIPTION

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DRAWN BY: DAH
CHECKED BY: MAJ

SITE NAME:
BULLDOGS CELL SITE

SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

SHEET TITLE:
GROUNDING DETAILS

DATE PRODUCT NO.:
001-1160

SHEET NO.:
E-4

GENERAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIREMENTS

SECTION 0100 - PROJECT CLOSEOUT

PART 1 - GENERAL

- 1. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES. INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
2. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
3. COMPLETE FINAL CLEAN UP REQUIREMENTS, INCLUDING TOUCH-UP PAINTING, TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARKED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF COMPLETION.
A. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBER, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOD CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. MAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED TO A SMOOTH EVEN-TEXTURED SURFACE.
B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
D. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILLS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT ENCLOSURE, MANHOLES AND SIMILAR SPACES.
E. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
F. TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARKED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
G. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
H. JUST-OFF ALL EQUIPMENT, INCLUDING BATTERY PACKS, WITHIN EQUIPMENT ENCLOSURE.
I. STRIP WASH AND WAX FLOOR WITHIN EQUIPMENT ENCLOSURE WITH NON-STATIC WAX.

- 2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

DIVISION 2: SITE WORK

SECTION 0200 - EARTHWORK AND DRAINAGE

PART 1 - GENERAL

- 1. WORK INCLUDED: SEE SITE PLAN
2. DESCRIPTIONS
ACCESS DRIVE WITH TURBARROUND AREA, LEASE AREA AND IF APPLICABLE UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, LEVEL MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.
3. QUALITY ASSURANCE
A. APPLY SOIL STABILIZER IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS (AS NEEDED).
B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
C. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.

- 4. SEQUENCING
A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
B. COMPLETELY GRUB THE ACCESS DRIVE WITH TURBARROUND, UNDERGROUND UTILITY EASEMENTS, IF APPLICABLE AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION. PLACE AND SUB-BASE MATERIAL.
C. CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG ACCESS DRIVE.
D. BRING THE LEASE AREA AND ACCESS DRIVE WITH TURBARROUND TO BASE COURSE ELEVATION PRIOR TO INSTALLING FOUNDATION.
E. APPLY SOIL STABILIZER PRIOR TO PLACING BASE MATERIALS.
F. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE WITH TURBARROUND TO BASE COURSE ELEVATION. WATER TO ENSURE GROWTH.
G. REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY PROJECT MANAGER.
H. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STABILIZER TO STONE SURFACES.
5. SUBMITTALS
A. BEFORE CONSTRUCTION
IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD (REFER TO PLANS FOR LANDSCAPING REQUIREMENTS).

- 6. WARRANTY
A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREAS AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SUBROUNDS.
B. SOIL STABILIZATION APPLICATION TO GUARANTEE VEGETATION FREE ROAD AND SITE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
C. DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

- A. SOIL STABILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:
TOTAL KILL
PRODUCT 910
P.O. BOX 5123
DEARBORN, MI 48128
EPA 10292-7 (313) 563-8000
AMISH HERBICIDE
FARMER INDUSTRIAL PRODUCTS
1435 WORKS AVE.
UNION, NJ 07093
(800) 526-4924

PART 3 - EXECUTION

- 1. INSPECTIONS
LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
2. PREPARATION
A. CLEAR TREES, BRUSH AND DEBRIS FROM LEASE AREA, ACCESS DRIVE WITH TURBARROUND AND UNDER GROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
B. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW GRADE.
C. UNLESS OTHERWISE INSTRUCTED BY VERIZON WIRELESS, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED. LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
3. INSTALLATION
A. GRADE OR FILL THE LEASE AREA AND ACCESS DRIVE WITH TURBARROUND AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SPOTS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISH GRADES, OR INDICATED SLOPES.
B. CLEAR EXCESS SPILLS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY VERIZON WIRELESS CONSTRUCTION MANAGER AND AGREED TO BY LANDOWNER.
C. BRING THE ACCESS DRIVE WITH TURBARROUND TO BASE COURSE ELEVATION TO FACILITATE CONSTRUCTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE.
D. AVOID CREATING DEPRESSIONS WHERE WATER MAY POOL.
E. THE CONTRACTOR SHALL INCLUDE GRADING, DRAINING, AND DITCHING, UNLESS OTHERWISE INDICATED.
F. WHEN IMPROVING AN EXISTING ACCESS DRIVE, GRADE THE EXISTING DRIVE TO REMOVE ANY OBSTACLE WATER AND SMOOTH THE SURFACE BEFORE PLACING FILL OR STONE.
G. PLACE FILL OR STONE IN SIX (6) INCH MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
H. THE TOP SURFACE COURSE SHALL EXTEND A MINIMUM OF ONE (1) FOOT BEYOND THE SITE FENCE (UNLESS OTHERWISE NOTED) AND SHALL COVER THE AREAS AS INDICATED.
I. APPLY GRAPES TO THE SIDE SLOPES OF ALL FENCED SITE AREAS, PARKING AREAS, AND ALL OTHER SLOPES GREATER THAN 2:1.
J. APPLY GRAPES TO THE SLOES OF DITCHES OR DRAINAGE SWALES.
K. GRAPES EXPOSED TO THE SLOES OF DITCHES OR DRAINAGE SWALES OPENINGS.
L. APPLY SEED, FERTILIZER AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE REPAIRED.
M. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS, OR PRELUY STANDING WATER, IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY.
N. DITCHES WITH SLOPES GREATER THAN 10% SHOULD BE CONSTRUCTED WITH HEADWALLS IN THE DITCH AT CULVERT ENTRANCES. POSITION THE HEADWALL AT AN ANGLE NO GREATER THAN 90 DEGREES TO THE DITCH LINE. REPAIR THE UPRIGHT SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX (6) FEET ABOVE THE CULVERT ENTRANCE.
O. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
P. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
Q. ENSURE GROWTH OF SEEDS AND LANDSCAPED AREAS, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

- 4. FIELD QUALITY CONTROL
COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.

PART 1 - GENERAL

- 1. WORK INCLUDED
SEE PLAN FOR SITE AND LOCATION OF FENCE AND GATE(S).
2. QUALITY ASSURANCE
ALL STEEL MATERIALS UTILIZED IN CONJUNCTION WITH THIS SPECIFICATION WILL BE GALVANIZED OR STAINLESS STEEL. WEIGHT OF ZINC COATING ON THE FABRIC SHALL NOT BE LESS THAN 12 OUNCES PER SQUARE FOOT OF MATERIAL COVERED. POSTS SHALL BE HOT-DIPPED IN GRADE E, ZINC, 18 OUNCES PER SQUARE FOOT.
3. SEQUENCING
IF THE SITE AREA HAS BEEN BROUGHT UP TO SURFACE COURSE ELEVATION (PRIOR TO THE FENCE CONSTRUCTION), FENCE POST EXCAVATION SPOTS MUST BE CONTROLLED TO PRECLUDE CONTAMINATION OF SAID SURFACE COURSE.
4. SUBMITTALS
A. MANUFACTURER'S DESCRIPTIVE LITERATURE.
B. CERTIFICATE OR STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS.

SECTION 0230 - FENCING AND GATES

PART 2 - PRODUCTS

- 1. FENCE MATERIAL
A. ALL FABRIC WIRE, RAILS, HARDWARE, AND OTHER STEEL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
B. FABRIC SHALL BE SEVEN-FOOT HIGH OR TO MATCH EXISTING FENCE TWO" CHAIN LINK MESH OF NO. 9 GAUGE (0.148") WIRE.
THE FABRIC SHALL HAVE A ROUNDED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A-392 CLASS 1.
C. BARBED WIRE SHALL BE DOUBLE-STRAND, 12-1/2 GAUGE TWISTED WIRE, WITH 14-GAUGE 1-RON ROUNDED BARS SPACED ON FIVE CENTERS.
D. ALL POSTS SHALL BE SCHEDULE 40 MECHANICAL SERVICE PREP AND SHALL BE THE 1 ASTM A-728 AND OF THE FOLLOWING DIA.
LINE 2 1/2" SCHEDULE 40 (3" O.D.)
CORNER 3" SCHEDULE 40 (3 1/2" O.D.)
GATE 4" SCHEDULE 40 (4 1/2" O.D.)

- E. GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
F. ALL TOP AND BRACE RAILS SHALL BE 1 5/8" DIA. DIA. SCHEDULE - 40 MECHANICAL-SERVICE PREP.
G. GATE FRAMES AND BRACES SHALL BE 2" DIA. SCHEDULE 40 MECHANICAL-SERVICE PREP. FRAMES SHALL HAVE WELDED CORNERS.
H. GATE FRAMES SHALL HAVE FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
I. GATE HINGES SHALL BE WELDED METAL MODEL 64388 HINGE ADAPTER WITH MODEL 5409, 188-DEGREE ATTACHMENT.
J. THE GUIDE (LATCH ASSEMBLY) SHALL BE HEAVY INDUSTRIAL DOUBLE GATE LATCH, SEE DETAIL.
K. LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES.
L. PLUNGER ROD COMPLETE WITH RECEIVER TO BE PROVIDED AT THE MACHINE LEAF OF ALL DOUBLE GATE INSTALLATIONS.
M. ALL STOPS SHALL HAVE KEYPERS CAPABLE OF HOLDING THE GATE LEAF IN THE OPEN POSITION.
N. A NO. 7 GAUGE ZINC COATED TENSION WIRE SHALL BE USED AT THE BOTTOM OF THE FABRIC, TERMINATED WITH BAND CLIPS AT CORNER AND GATE POSTS.
O. A SIX" BY 12" DIA. EPOXY TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
P. STRETCHER BARS SHALL BE 3/16" BY 3/4" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
Q. ALL CORNER GATE AND PANELS SHALL HAVE A 3/8" TRUSS ROD WITH TURNBUCKLES.
R. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING RAIL. GATE POSTS SHALL HAVE A DOME CAP.
S. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO THE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
T. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
U. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE RAIL.
V. ALL CAPS SHALL BE WALLETABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
W. WHERE THE USE OF CONCRETE HAS BEEN SPECIFIED, 24" DIA. COIL, BARBED WIRE, STAINLESS STEEL, COILING FENCE MODEL GAP TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX (6) WIRE BARBED WIRE ARMS POSITIONED AROUND EACH LINE/CORNER POST.

PART 3 - EXECUTION

- 1. INSPECTION
TO CONFIRM PROPER DEPTH AND DIA. OF POST HOLE EXCAVATIONS. ALL POST HOLES WILL BE EXCAVATED AS PER CONSTRUCTION DOCUMENTS.
2. INSTALLATION
A. FOUNDATIONS SHALL HAVE A MINIMUM SIX (6) INCH CONCRETE COVER UNDER POST.
B. ALL FENCE POSTS SHALL BE VERTICALLY PLUMB. ONE QUARTER (1/4) INCH BE AT CORNER POSTS, GATE POSTS, AND SPOES OF GATE FRAME. FABRIC SHALL BE ATTACHED WITH STRETCHER AND TENSION BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.
C. AT LINE POSTS, FABRIC SHALL BE ATTACHED WITH BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.
D. FABRIC SHALL BE ATTACHED TO BRACE RAILS, TENSION WIRE AND TRUSS ROOS WITH THE CLIPS AT TWO (2) FOOT INTERVALS.
E. A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN THE CHAIN LINK FABRIC AND THE FINAL GRADE.
F. FABRIC AND THE FINAL GRADE.
G. GATE SHALL BE INSTALLED SO LOOKS ARE ACCESSIBLE FROM BOTH SIDES.
H. GATE HINGE BOLTS SHALL HAVE THEIR THREADS REEMED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.
I. CONCRETE TO BE A MINIMUM OF 4,000 PSI AT 7 DAYS. CEMENT SHALL EXCEED ASTM C150, TYPE I/A.
3. PROTECTION
UPON COMPLETION OF ERECTION, INSPECT FENCE MATERIAL AND PAINT FIELD CUTS OR GALVANIZING BREAKS WITH ZINC-BASED PAINT, COLOR TO MATCH THE GALVANIZED APPLICABLE STANDARDS.
ASTM-A120
COATED SPECIFICATION FOR PIPE, STEEL BLACK AND HOT-DIPPED ZINC GALVANIZED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDNARY USES.
ASTM-A123
ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS. STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.
ASTM-A432
SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE FABRIC.
ASTM-A491
SPECIFICATION FOR ALUMINUM-COATED STEEL CHAIN LINK FENCE FABRIC.
ASTM-A525
STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED (GALVANIZED) BY THE HOT-DIPPED PROCESS.
ASTM-A570
SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND STRIP.
ASTM-A533
STRUCTURAL QUALITY.
SPECIFICATION FOR ALUMINUM COATED STEEL SHEET AND STRIP.
FEDERAL SPECIFICATION RR-F-191- FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

DIVISION 3: CONCRETE

SECTION 0300 - BASIC CONCRETE MATERIALS AND METHODS

PART 1 - GENERAL

- 1. WORK INCLUDED
FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND CURING.
2. INSPECTIONS
A. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS REQUIRED FOR HIS SCOPE OF WORK.
B. ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
C. THE VERIZON WIRELESS CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.
3. QUALITY ASSURANCE
A. CONSTRUCT AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH ACI 301, ACI 308 AND ACI 318.
B. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301, ACI 308 AND ACI 318.
C. PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 111-80.
D. OPEN FOUNDATION TRENCHES SHALL BE INSPECTED BY VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
4. SUBMITTALS
SUBMIT CONCRETE MIX AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY VERIZON WIRELESS CONSTRUCTION MANAGER/ENGINEER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE MIX DESIGN INFORMATION SHEETS AND TWO (2) BLUELINE DRAWINGS FOR REINFORCING STEEL.

PART 2 - PRODUCTS

- 1. REINFORCEMENT MATERIALS
A. REINFORCEMENT STEEL, ASTM A615, 60 ksi YIELD GRADE, DEFORMED BILLET STEEL BARS, PLAIN FINISH.
B. WELDED STEEL WIRE FABRIC, ASTM A195 PLAIN TYPE, IN PLAT SHEETS, PLAIN FINISH.
C. CHAIRS, BOSTERS, BAR SUPPORTS, SPACERS, STEEL AND SWAPPED FOR SUPPORTS OF REINFORCING.
D. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 315, ACI 318, AND ASTM A108.
2. CONCRETE MATERIALS
A. CEMENT: ASTM C150, PORTLAND TYPE I.
B. FINE AND COURSE AGGREGATES: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ONE (1) INCH SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
C. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
D. AIR ENTRAINING ADJUTIVE: ASTM C260.
E. BONDING AGENT: LATEX EMULSION FOR BONDING NEW TO OLD CONCRETE AS MANUFACTURED BY DATON SUPERIOR.
F. NON-SHANK GROUT: PREPARED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICISING AGENTS.

Verizon Wireless logo and text: Verizon Wireless logo, 'wireless' text.

MAGTECH SERVICES, INC. logo and text: MAGTECH SERVICES, INC. logo, 'AN AFFILIATE OF TORMEC WIRELESS INC.', address: 1715 WASHINGTON BLVD, PORT WASHINGTON, IN 46080, phone: (820) 438-2868, fax: (820) 438-2402.

PRELIMINARY NOT FOR CONSTRUCTION logo and text: PRELIMINARY NOT FOR CONSTRUCTION logo.

Table with columns: DATE, RELEASE, 07-30-12, PRELIMINARY SITE PLANS.

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SITE NAME: BULLDOGS CELL SITE
SITE ADDRESS: 6890 N. STATE ROAD 267 BROWNSBURG, IN 46112
SHEET TITLE: SPECIFICATIONS

DATE PROJECT NO.: 001-1160
SHEET NO.: SP-1

CONTINUED ON SHEET SP-2



GTE MOBILNET OF INDIANA LIMITED PARTNERSHIP d/b/a

MAGTECH SERVICES, INC. AN AFFILIATE OF FORTUNE WIRELESS INC. 1715 WASHINGTON WAY, DORTCH WISCONSIN 54804 PH: (260) 436-2888 • FAX: (260) 436-2402

PRELIMINARY NOT FOR CONSTRUCTION

RELEASE DATE: 07-30-12 PRELIMINARY SITE PLANS

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SITE NAME: BULLDOGS CELL SITE SITE ADDRESS: 6690 N. STATE ROAD 267 BROWNSBURG, IN 46112

SPECIFICATIONS SHEET NO.: 001-1160

SHEET NO.: SP-2

- 3. CONCRETE MIX A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE. B. MAX AND DELAYED CONCRETE IN ACCORDANCE WITH ASTM C94, A11.3...

- 2. FABRICATION: A. CONTINUOUS: SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH. B. FINISH: 1. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC B-SP-1 TO SP-10 PROCEDURES...

- 1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTORS SHALL ISSUE A WRITTEN NOTICE OF ALL FINISHES TO THE ARCHITECT LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.

- 1. WIRE AND CABLE CONDUITS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG. COLOR CODED. ALL RECEIVER DROPS SHALL BE STRANDED TO ACCEPT GRAB CONNECTIONS.

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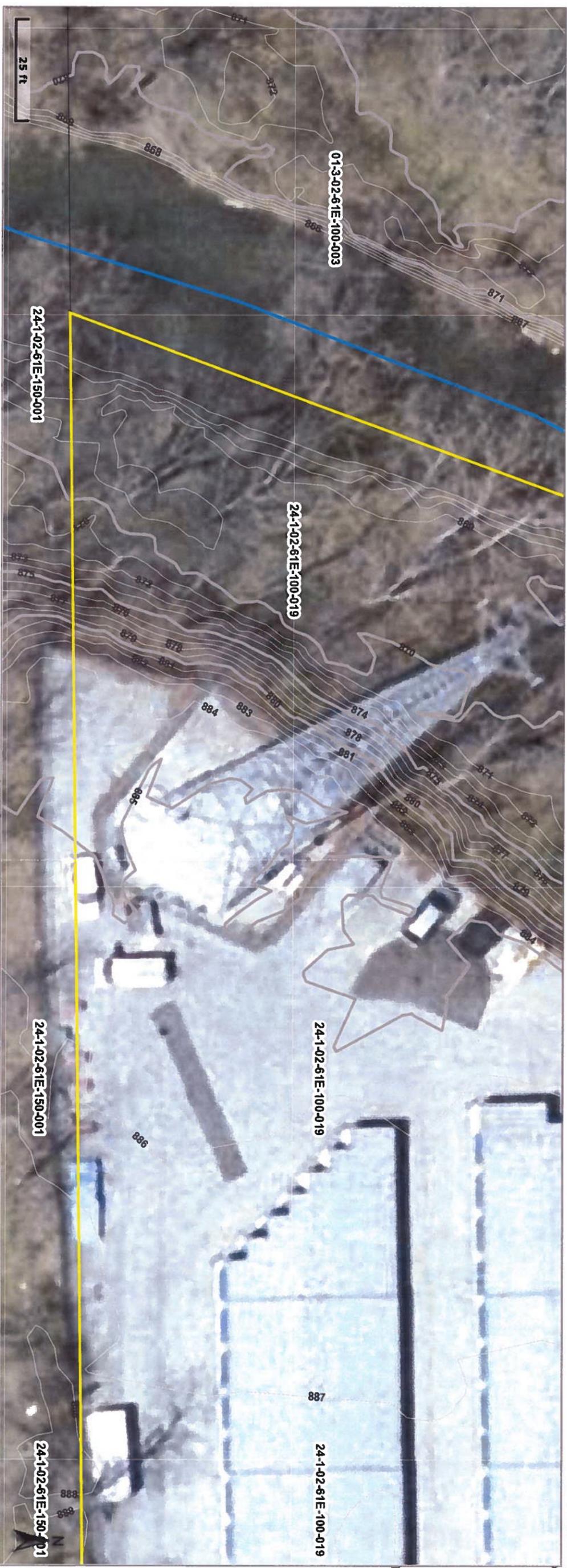
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Contour map

Verizon Wireless Co-location

Created By: ebw
Date Created: 9/4/2012



Overview

- Legend
- Parcels
 - Right of Way
 - Townships
 - Road
 - Centerlines
 - Streams
- Contours
- Contour 1 Ft
 - Intermediate
 - Contour 5 Ft Index

Parcel ID 32-07-02-100-019.000-026
Sec/Twp/Rng 2-16-1
Property Address 1410 N GREEN ST
 Brownsburg

District
 Brief Tax Description
 Bburg-Brown Taxing District
 Pt NW1/4 2-16-1e 4.64ac
 From 100-017
 Assess 98-99

Alternate ID 24-1-02-61E 100-019
Class COMMERCIAL MINI-WAREHOUSE
Acreage 4.64

Owner Address Three Way Storage LLC
 8355 Rockville Rd
 Indianapolis, IN 46234

(Note: Not to be used on legal documents)

Last Data Upload: 9/4/2012 6:59:45 AM



Site Plan



CR 700

N GREEN ST. (SR 267)

GTE MOBILNET OF INDIANA
LIMITED PARTNERSHIP d/b/a

MAGTECH SERVICES, INC.
AN AFFILIATE OF FORBUE WIRELESS, INC.
1715 WASHINGTON WAY, FORT WANE, INDIANA 46904
Ph: (250) 436-2800 • Fax: (250) 436-2102

CERTIFICATION

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RELEASE	DATE
07-30-12	PRELIMINARY SITE PLANS

REVISIONS	DATE

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DRAWN BY: DJH
CHECKED BY: MAA

SITE NAME:
BULLDOGS CELL SITE

SITE ADDRESS:
6890 N. STATE ROAD 267
BROWNSBURG, IN 46112

SHEET TITLE:
OVERALL SITE PLAN

A/E PROJECT NO.:
001-1160

SHEET NO.:
Z-1