



1150 SHENANDOAH VILLAGE DRIVE  
WAYNESBORO, VA 22980

# ZONING DRAWINGS

## COURT SQUARE CV101

PROPOSED EQUIPMENT UPGRADE  
OF EXISTING ROOFTOP INSTALLATION



1150 SHENANDOAH VILLAGE DRIVE  
WAYNESBORO, VA 22980

SITE NAME: COURT SQUARE

SITE NUMBER: CV101

SITE ADDRESS:  
500 COURT SQUARE  
CHARLOTTESVILLE, VA 22902

AREA:  
LEASE AREA = 208 SQ. FT.

BUILDING OWNER:  
500 COURT SQUARE ASSOCIATION

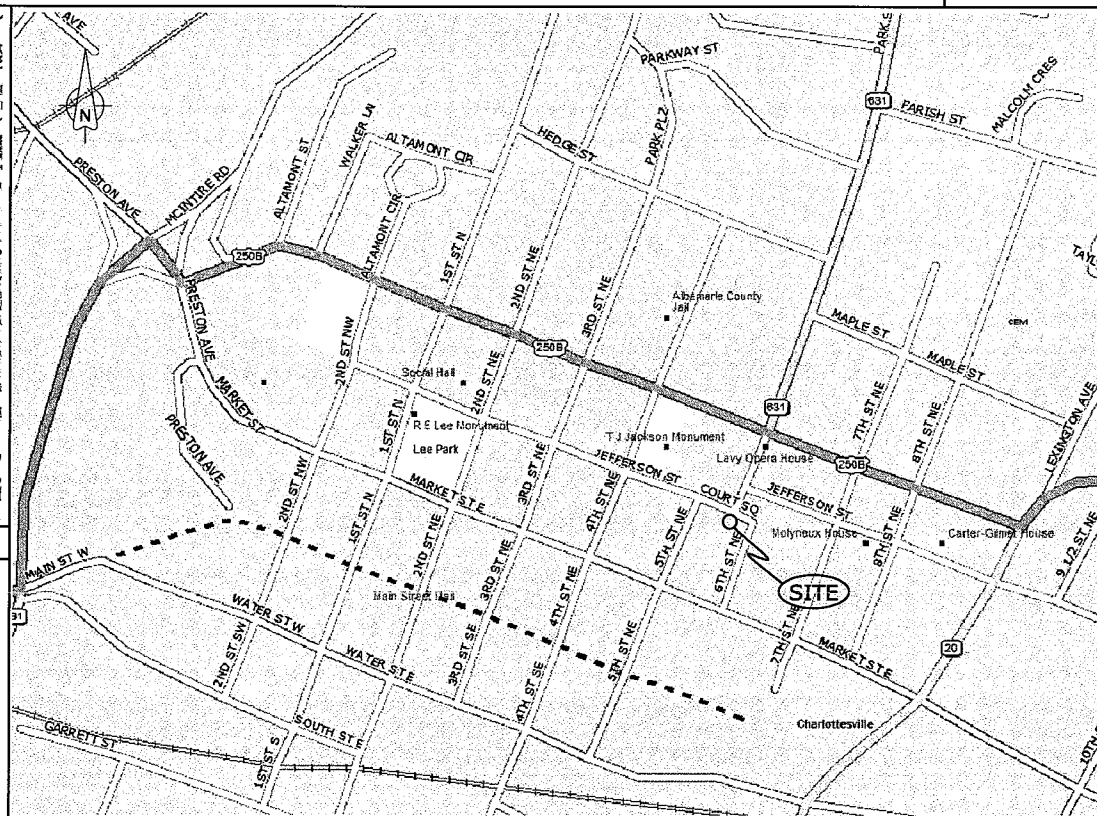
LATITUDE: N38° 01' 54.98"

LONGITUDE: W78° 28' 41.02"

NO.	REVISION/ISSUE	DATE
1	ISSUE FOR COMMENT	09/11/14
2	REISSUE FOR COMMENT	09/24/14
3	REISSUE FOR COMMENT	02/18/15
4	ISSUE FOR CONSTRUCTION	03/31/15
5	ISSUE FOR ZONING	05/01/15
6	REISSUE FOR ZONING	07/08/15



AREA MAP



VICINITY MAP

**SITE DIRECTIONS**

FROM WAYNESBORO, VA: I-64 EAST TO EXIT 120 (SR631-5TH STREET). TURN LEFT (NORTH) ONTO SR631 AND FOLLOW FOR ABOUT 2.1 MILES TO US250 BUSINESS. CONTINUE STRAIGHT ONTO US250 BUSINESS AND FOLLOW FOR 0.2 MILES. BEAR RIGHT ONTO HIGH STREET (US 250 BUSINESS). FOLLOW HIGH STREET FOR 0.3 MILES. TURN RIGHT ONTO 4TH ST. NE. TAKE NEXT LEFT ONTO COURT SQUARE AND FOLLOW FOR 300 FEET. BUILDING IS ON THE RIGHT.

**SITE NAME**  
COURT SQUARE

**SITE NUMBER**  
CV101

**SITE ADDRESS**  
500 COURT SQUARE  
CHARLOTTESVILLE, VA 22902

**BUILDING OWNER**  
500 COURT SQUARE ASSOCIATION

**SITE DATA**  
NAD 83 LATITUDE - N38° 01' 52.01"  
NAD 83 LONGITUDE - W78° 28' 39.05"

**LEASE AREA**  
208 SQUARE FEET

**PROJECT DESCRIPTION**  
INSTALLATION OF EQUIPMENT CABINETS ON EXISTING STEEL FRAME. INSTALLATION OF NEW ANTENNAS ON EXISTING STEEL FRAMES. UTILITY RUN TO NEW EQUIPMENT.

**JURISDICTION**  
CITY OF CHARLOTTESVILLE

**CONTACTS**  
nTELOS (CONSTRUCTION)  
BEN PIERCE  
(804) 218-5474 - PHONE  
7501 BOULDERS VIEW DR., SUITE 600  
RICHMOND, VA 23225

nTELOS (LEASING)  
DEBBIE BALSER  
(540) 941-4220 x3071 - PHONE  
(540) 941-4106 - FAX

MEAD & HUNT  
CURTIS PAXTON  
(304) 553-8103 - PHONE  
400 TRACY WAY, SUITE 200  
CHARLESTON, WV 25311

SHEET	TITLE
T-1	TITLE SHEET
C-1	EXISTING CONDITIONS
C-2	PROPOSED SITE PLAN
C-3	EQUIPMENT PLATFORM PLAN
C-4	ANTENNA AND CABLE LAYOUT
C-5	UTILITY SERVICE PLAN
C-6	GROUNDING PLAN
C-7	SOUTH ELEVATION
D-1	MISCELLANEOUS DETAILS
D-2	MISCELLANEOUS DETAILS
D-3	MISCELLANEOUS DETAILS
D-4	MISCELLANEOUS DETAILS
D-5	PPC CABINET DETAILS
D-6	ELECTRICAL NOTES
D-7	GENERAL NOTES

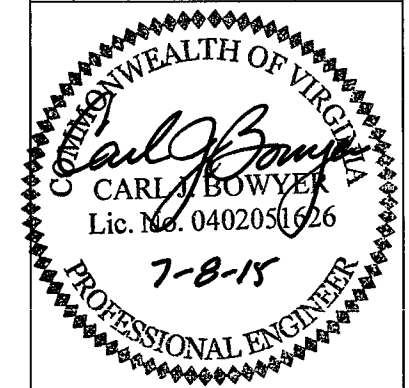
**SHEET INDEX**

**POLICE/FIRE/RESCUE**  
911

**ELECTRIC POWER**  
DOMINION POWER  
CONTACT: CUSTOMER SERVICE  
PHONE#: 888-667-3000

**TELEPHONE**  
CENTURY LINK  
CONTACT: CUSTOMER SERVICE  
PHONE#: 866-768-1847

**nTELOS NOC**  
(800) 566-9568 - PHONE



400 TRACY WAY  
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CHARLESTON, WV 25311  
(304) 345-6712 PHONE

PROJECT # R4022100-141667.01

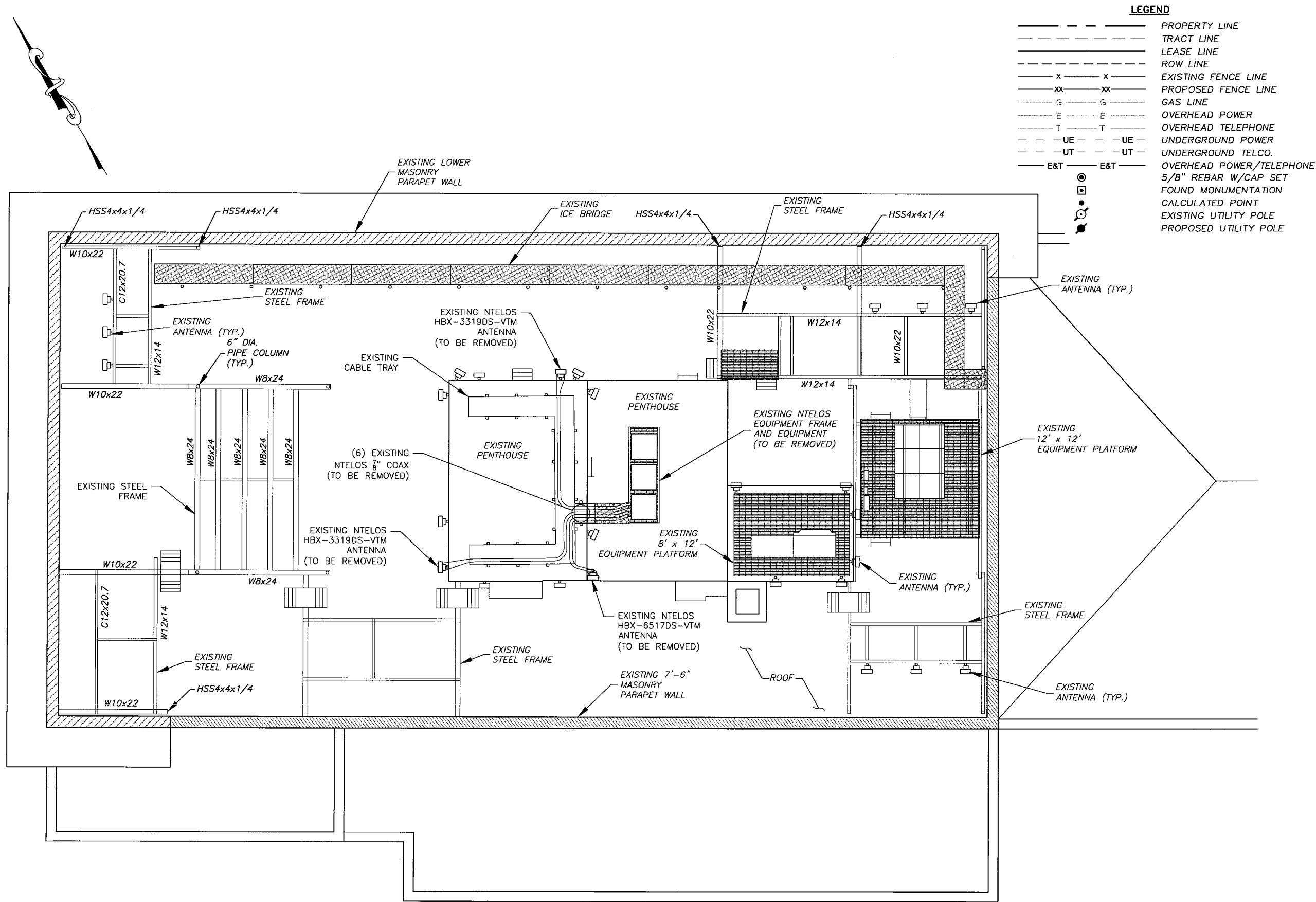
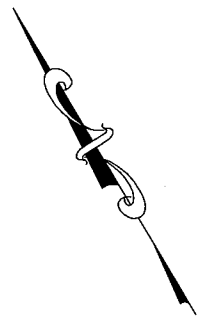
TITLE SHEET	SHEET
TITLE SHEET	T-1

CONSULTANT TEAM

DIRECTIONS TO SITE

PROJECT INFORMATION

EMERGENCY AND UTILITY CONTACTS



**LEGEND**

---	---	PROPERTY LINE
---	---	TRACT LINE
---	---	LEASE LINE
---	---	ROW LINE
-x-x-	-x-x-	EXISTING FENCE LINE
-xx-xx-	-xx-xx-	PROPOSED FENCE LINE
-G-G-	-G-G-	GAS LINE
-E-E-	-E-E-	OVERHEAD POWER
-T-T-	-T-T-	OVERHEAD TELEPHONE
-UE-UE-	-UE-UE-	UNDERGROUND POWER
-UT-UT-	-UT-UT-	UNDERGROUND TELCO.
-E&T-E&T-	-E&T-E&T-	OVERHEAD POWER/TELEPHONE
○	○	5/8" REBAR W/CAP SET
□	□	FOUND MONUMENTATION
○	○	CALCULATED POINT
○	○	EXISTING UTILITY POLE
○	○	PROPOSED UTILITY POLE

**MTelos**  
 1150 SHENANDOAH VILLAGE DRIVE  
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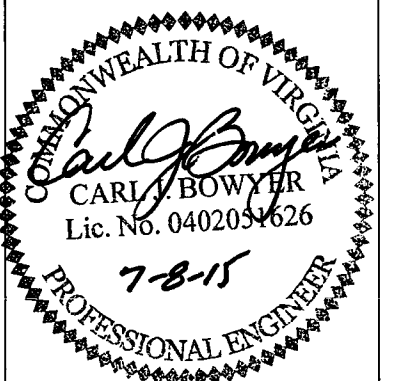
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LONGITUDE: W78° 28' 41.02"

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**Mead & Hunt**  
 400 TRACY WAY  
 SUITE 200  
 CHARLESTON, WV 25311  
 (304) 345-6712 PHONE

PROJECT # R4022100-141667.01

EXISTING CONDITIONS	SHEET C-1
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**EXISTING CONDITIONS**  
 SCALE: 1" = 10'



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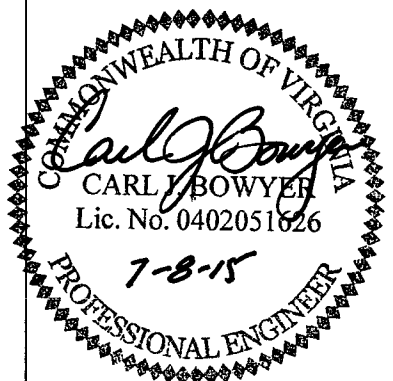
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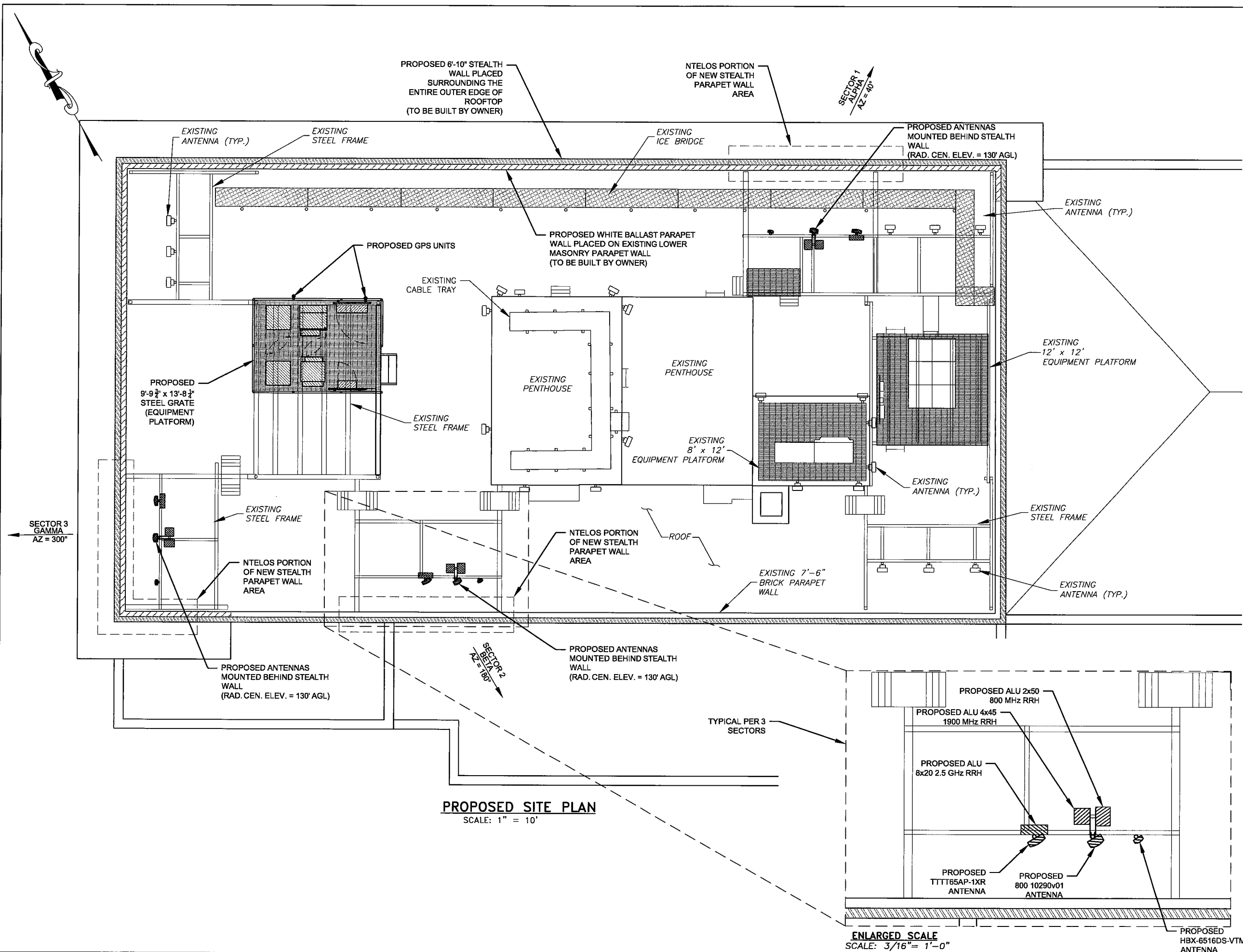


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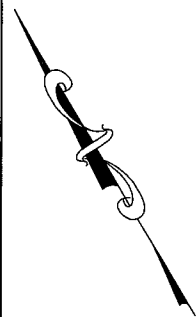
PROPOSED SITE PLAN SHEET  
C-2



SECTOR 1 ALPHA  
AZ = 90°

SECTOR 3 GAMMA  
AZ = 300°

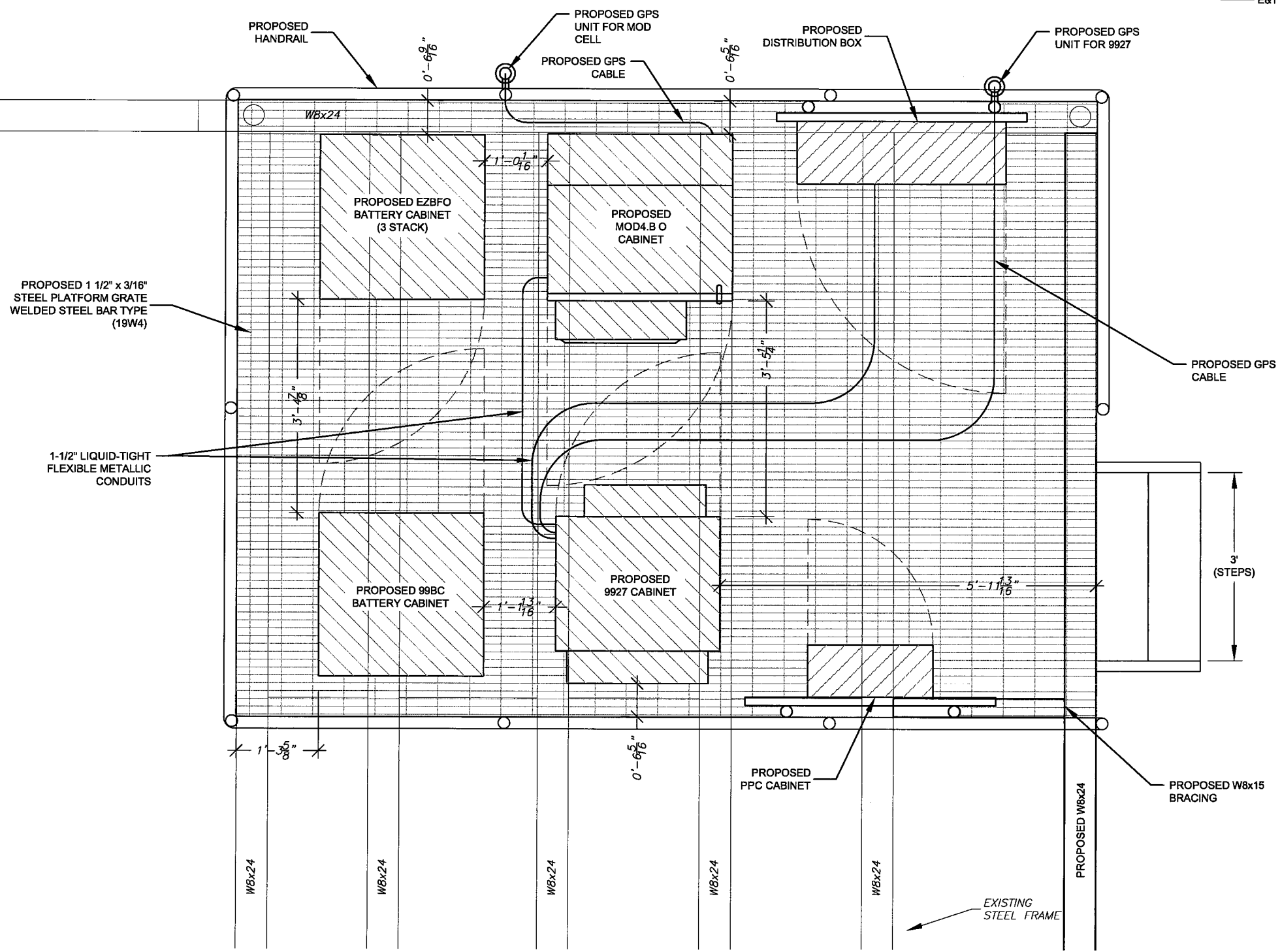
SECTOR 2 BETA  
AZ = 180°



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---	---	TRACT LINE
---	---	LEASE LINE
---	---	ROW LINE
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-xx-xx-	-xx-xx-	PROPOSED FENCE LINE
-G-G-	-G-G-	GAS LINE
-E-E-	-E-E-	OVERHEAD POWER
-T-T-	-T-T-	OVERHEAD TELEPHONE
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-E&T-E&T-	-E&T-E&T-	OVERHEAD POWER/TELEPHONE

● FOUND MONUMENTATION  
 □ CALCULATED POINT  
 ○ EXISTING UTILITY POLE  
 ○ PROPOSED UTILITY POLE



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

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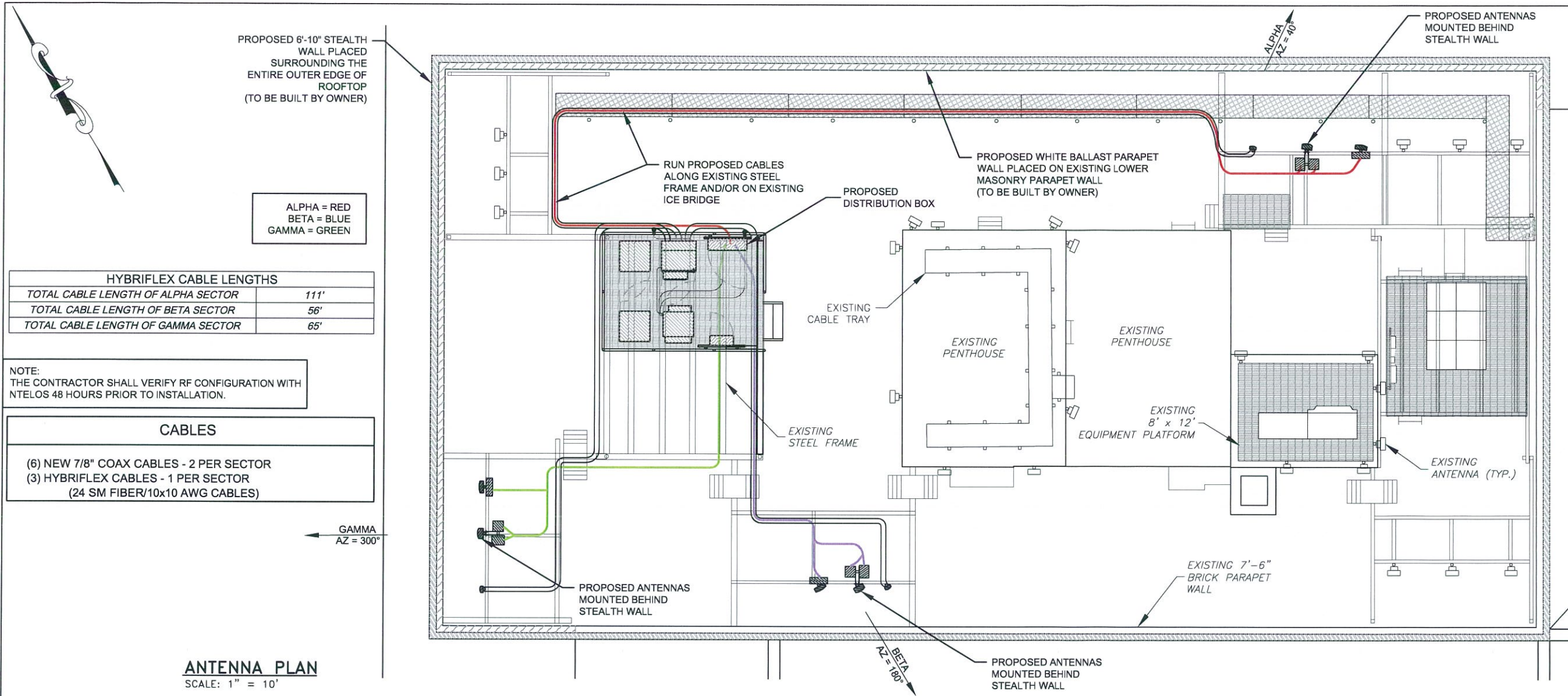
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EQUIPMENT PLATFORM PLAN	SHEET C-3
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**HYBRIFLEX CABLE LENGTHS**

TOTAL CABLE LENGTH OF ALPHA SECTOR	111'
TOTAL CABLE LENGTH OF BETA SECTOR	56'
TOTAL CABLE LENGTH OF GAMMA SECTOR	65'

NOTE:  
THE CONTRACTOR SHALL VERIFY RF CONFIGURATION WITH NTELOS 48 HOURS PRIOR TO INSTALLATION.

**CABLES**

(6) NEW 7/8" COAX CABLES - 2 PER SECTOR  
 (3) HYBRIFLEX CABLES - 1 PER SECTOR  
 (24 SM FIBER/10x10 AWG CABLES)

ALPHA = RED  
 BETA = BLUE  
 GAMMA = GREEN

**ANTENNA PLAN**  
 SCALE: 1" = 10'

**nTelos**  
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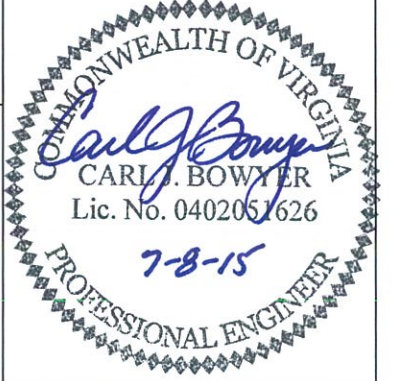
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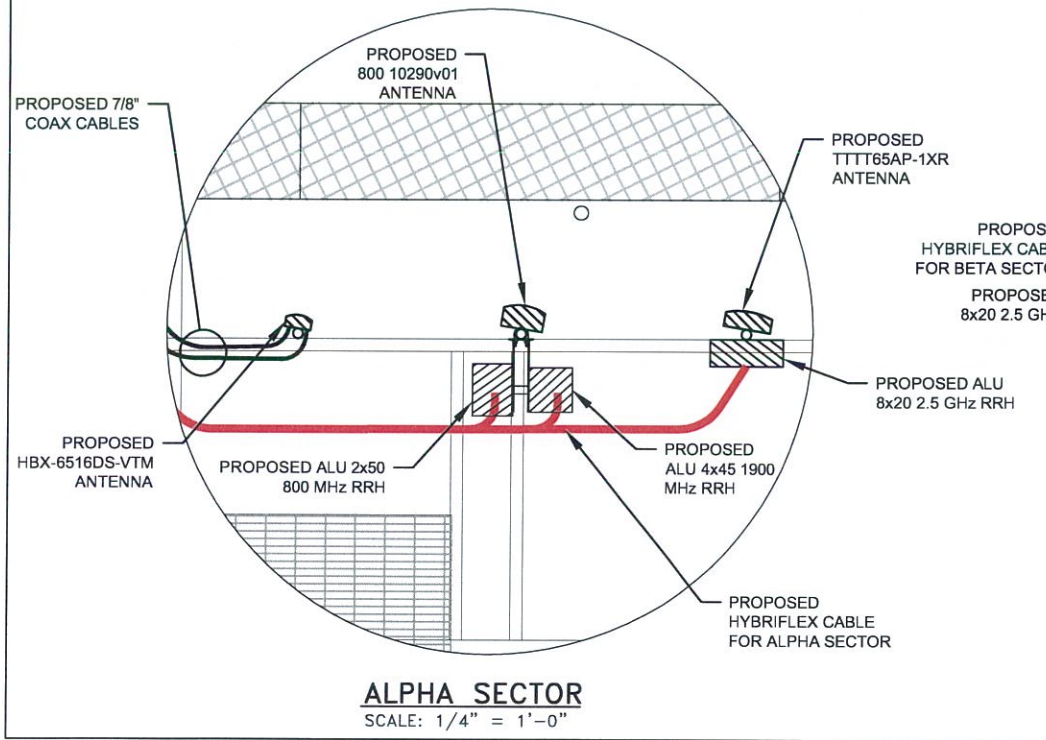
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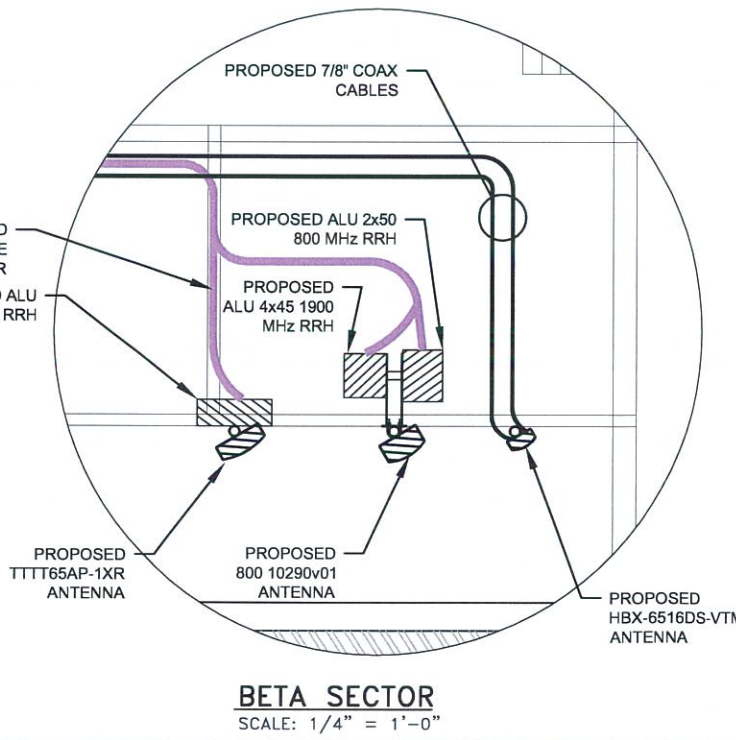
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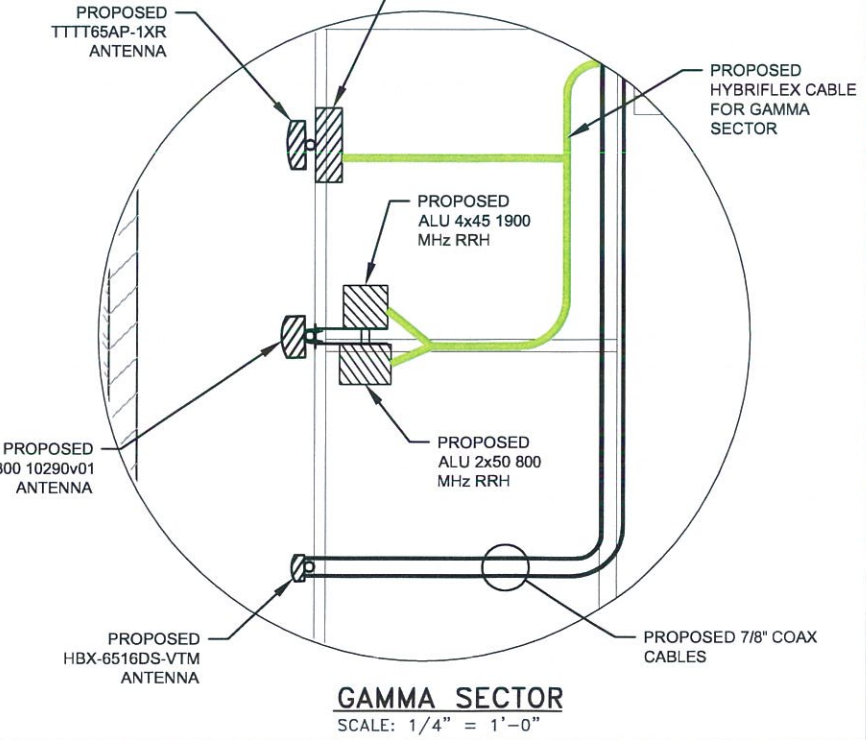
ANTENNA AND CABLE LAYOUT SHEET C-4



**ALPHA SECTOR**  
 SCALE: 1/4" = 1'-0"



**BETA SECTOR**  
 SCALE: 1/4" = 1'-0"



**GAMMA SECTOR**  
 SCALE: 1/4" = 1'-0"



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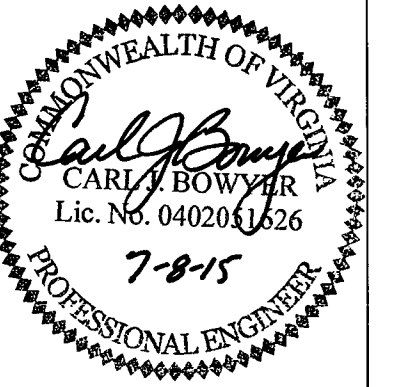
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**Mead & Hunt**

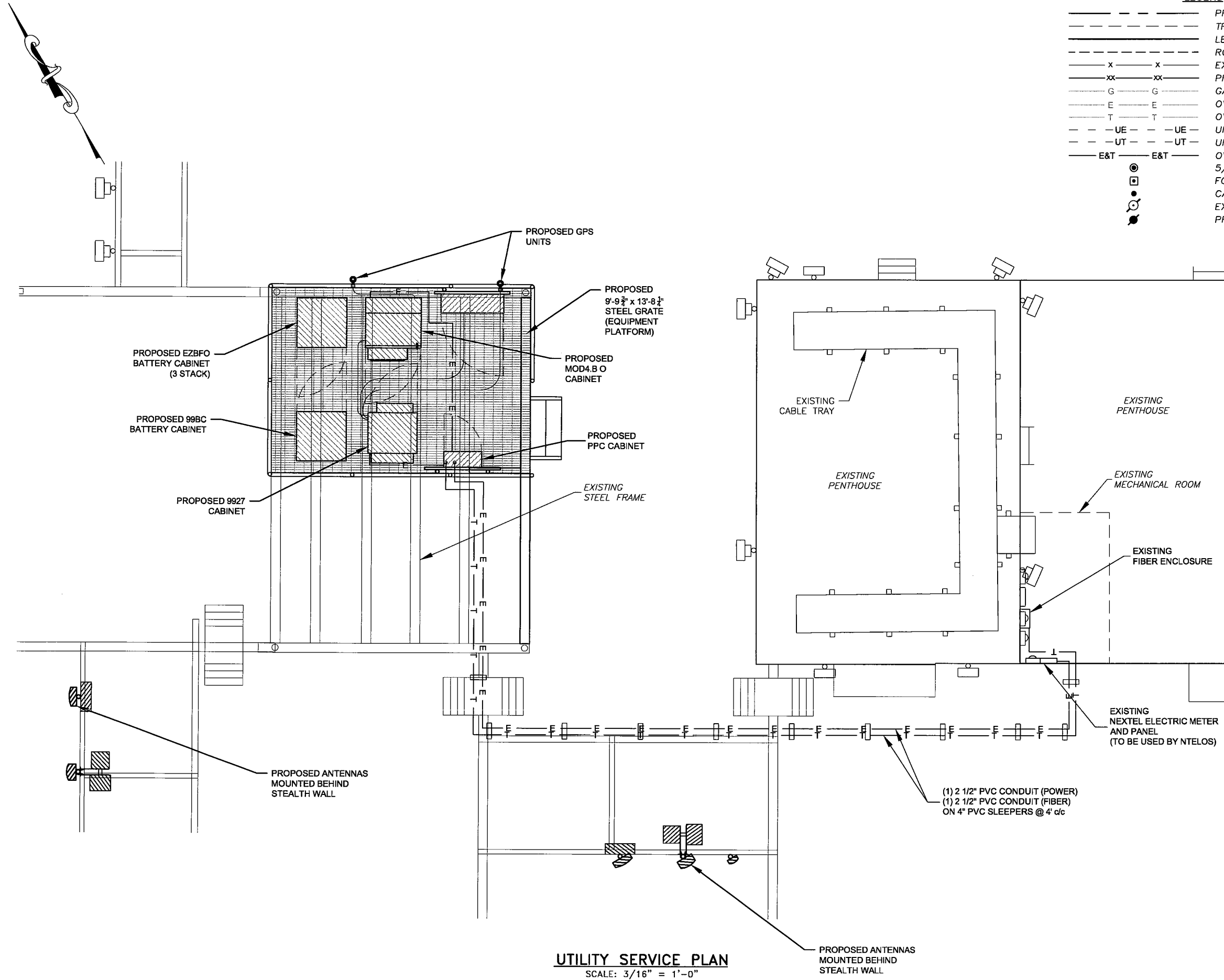
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PROJECT # R4022100-141667.01

UTILITY SERVICE PLAN	SHEET C-5
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**LEGEND**

- PROPERTY LINE
- TRACT LINE
- LEASE LINE
- ROW LINE
- x-x- EXISTING FENCE LINE
- xx-xx- PROPOSED FENCE LINE
- G-G- GAS LINE
- E-E- OVERHEAD POWER
- T-T- OVERHEAD TELEPHONE
- UE-UE- UNDERGROUND POWER
- UT-UT- UNDERGROUND TELCO.
- E&T-E&T- OVERHEAD POWER/TELEPHONE
- ⊙ 5/8" REBAR W/CAP SET
- ⊠ FOUND MONUMENTATION
- ⊙ CALCULATED POINT
- ⊙ EXISTING UTILITY POLE
- ⊙ PROPOSED UTILITY POLE



**UTILITY SERVICE PLAN**  
SCALE: 3/16" = 1'-0"

**NOTE:**  
 CONTRACTOR TO GROUND ALL  
 NEW/ADDED EQUIPMENT PER  
 MANUFACTURERS  
 SPECIFICATIONS AND NEC REQUIREMENTS.

**GROUNDING LEGEND**

- 5/8" x 8' COPPER-CLAD STEEL GROUND ROD
- ⊙ GROUND ROD WITH PLASTIC INSPECTION SLEEVE
- COMPRESSION LUG CONNECTION
- ▶ EXOTHERMIC WELD GROUNDING CONNECTION
- P — POWER RATING
- T — TELCO WIRING
- — — GROUND WIRING

**ABBREVIATIONS**

A	AMPERE	PVC	POLYVINYL CHLORIDE
C	CONDUIT	V	VOLT
(E)	EXISTING	W	WIRE
G	GROUND	∅	PHASE
P	POLE		



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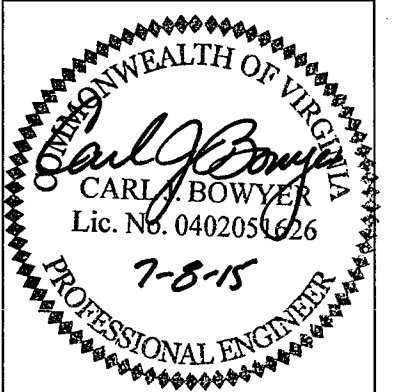
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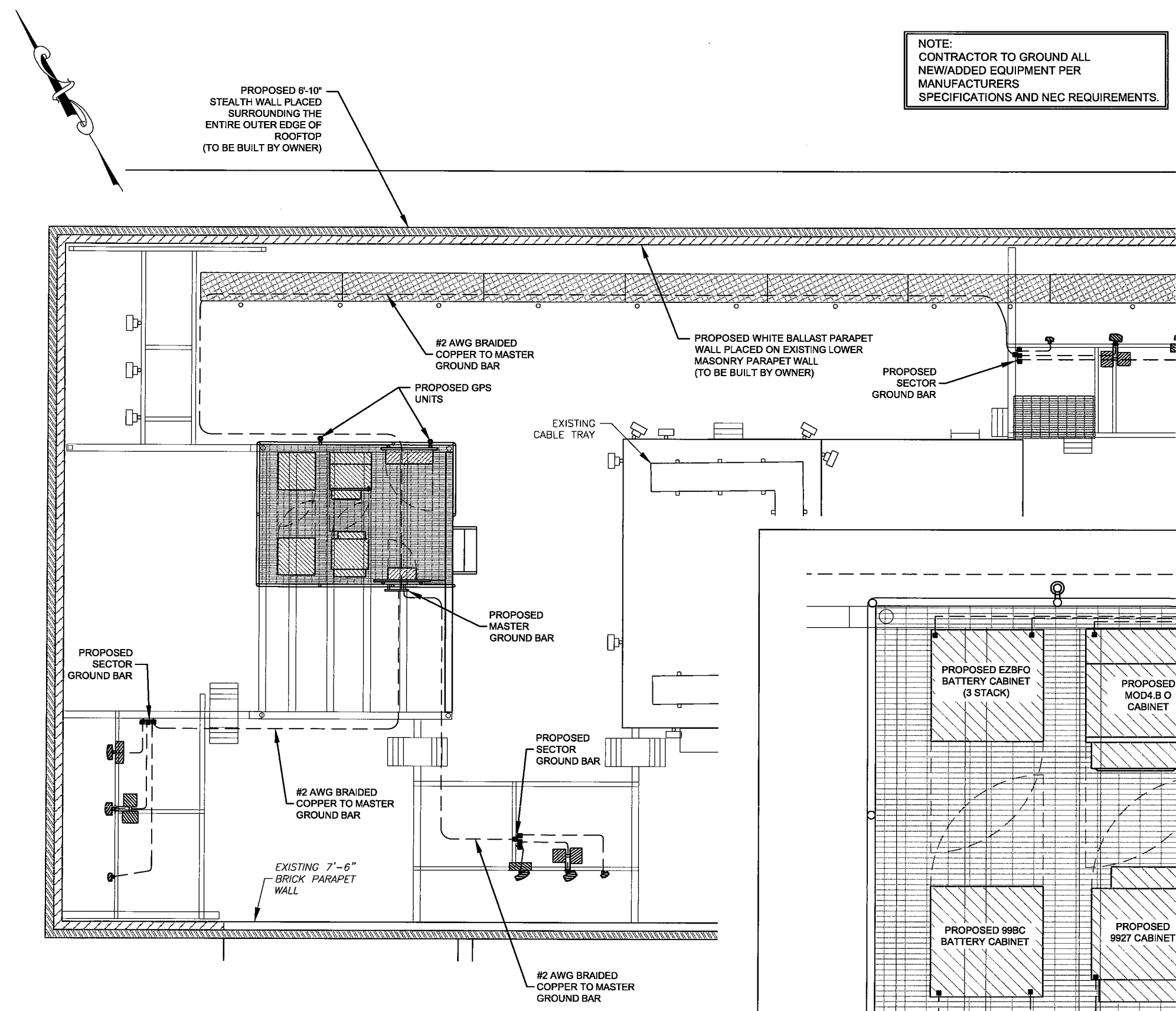


**Mead & Hunt**

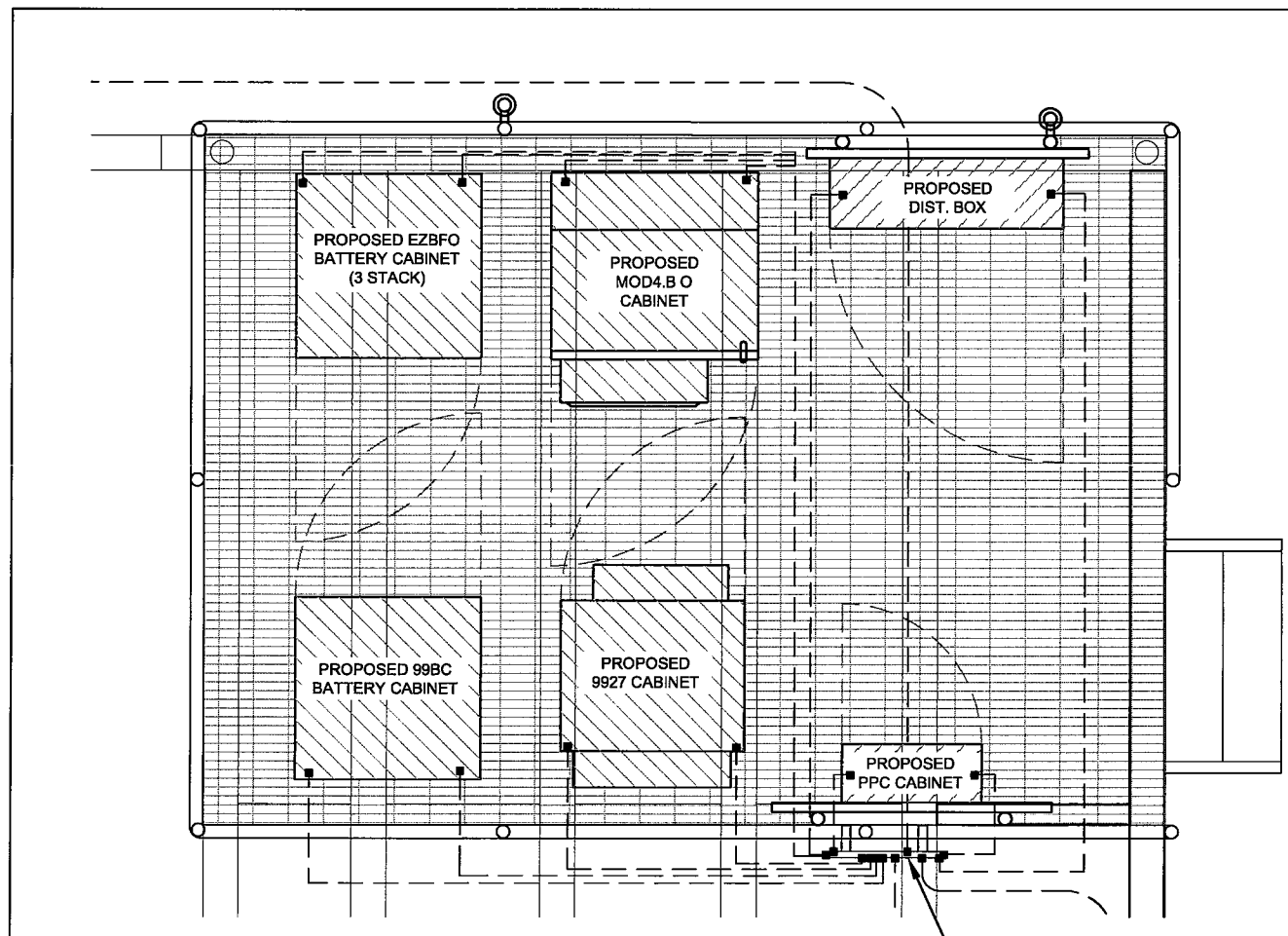
400 TRACY WAY  
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PROJECT # R4022100-141667.01

GROUNDING PLAN SHEET  
 C-6



**ANTENNA GROUNDING PLAN**  
 SCALE: 1/8" = 1'-0"



**PLATFORM GROUNDING PLAN**  
 SCALE: 3/8" = 1'-0"



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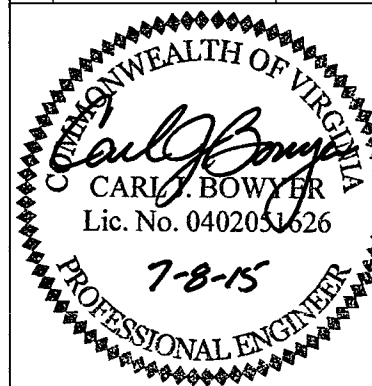
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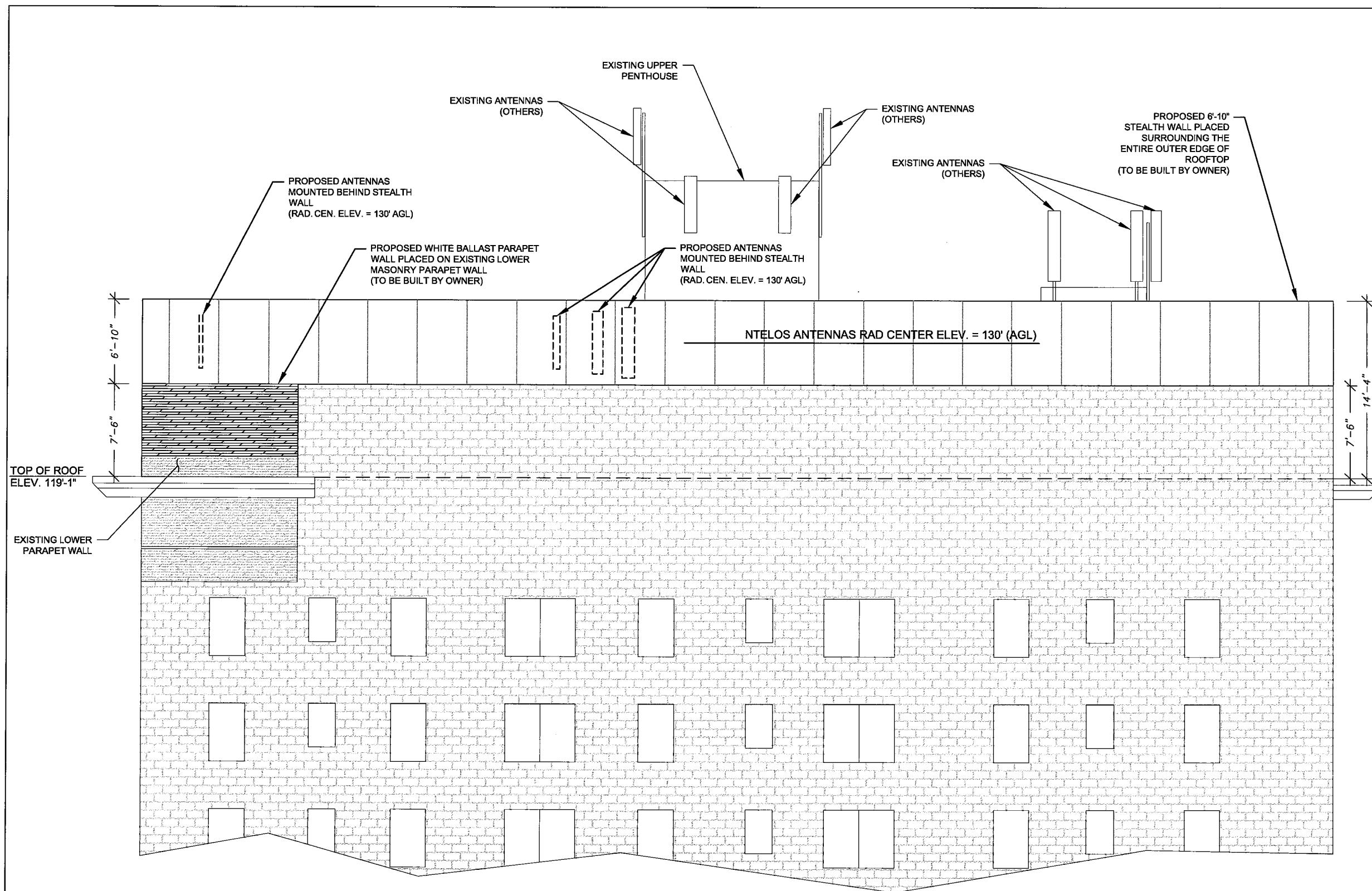


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SOUTH ELEVATION	SHEET
	C-7



**SOUTH ELEVATION**  
NOT TO SCALE





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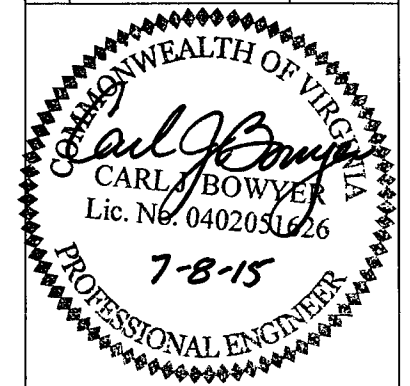
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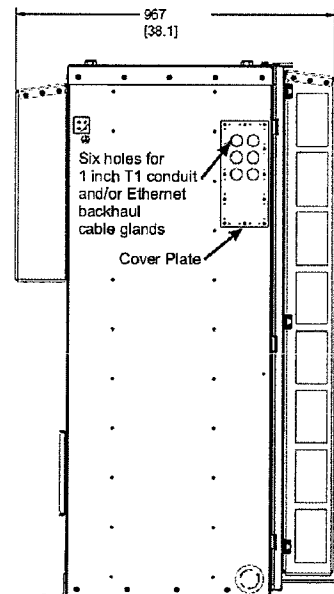
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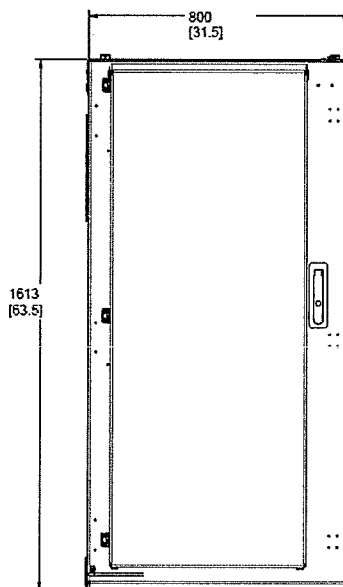
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MISCELLANEOUS DETAILS SHEET D-1

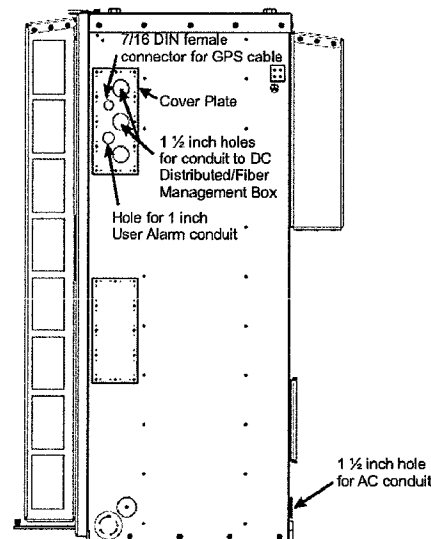
PROPOSED EQUIPMENT DATA								
COMPONENT	MANUFACTURER	MODEL	WIDTH (INCH)	DEPTH (INCH)	HEIGHT (INCH)	QTY	WT. EACH (LBS)	TOTAL WT. (LBS)
BTS CABINET	ALCATEL LUCENT	MOD4.B 0	35.4	40	72	1	1200	1200
BATTERY CABINET	ALCATEL LUCENT	EZBF0	31.5	31.5	23.6	3	832	2496
BTS CABINET	ALCATEL LUCENT	9927	32	38	63.6	1	634	634
BATTERY CABINET	ALCATEL LUCENT	99BC	31.5	31.2	63.6	1	2640	2640
RADIO HEADS	ALCATEL LUCENT	ALU 4x45	11.1	10.7	25.1	3	62.7	188.1
RADIO HEADS	ALCATEL LUCENT	ALU 8x20	18.6	6.7	26.2	3	70.55	211.65
RADIO HEADS	ALCATEL LUCENT	ALU 2x50	13	10	15.8	3	50.7	152.1
ANTENNA	COMMSCOPE	HBX-6516DS-VTM	6.6	3.3	51.5	3	10.4	31.2
ANTENNA	KATHREIN SCALA	800 10290V01	10.3	5.9	60.6	3	46.3	138.9
ANTENNA	COMMSCOPE	TTTT65AP-1XR	12.0	4.6	63.3	3	33.0	99.0



LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW

9927 LTE CABINET DETAIL  
NOT TO SCALE



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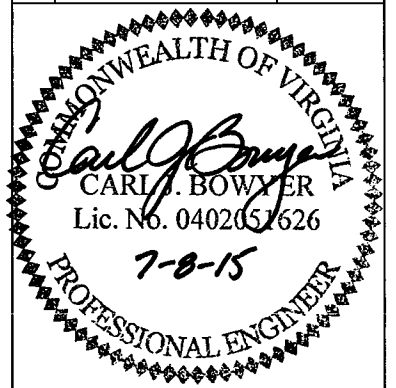
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LATITUDE: N38° 01' 54.98"

LONGITUDE: W78° 28' 41.02"

NO.	REVISION/ISSUE	DATE
1	ISSUE FOR COMMENT	09/11/14
2	REISSUE FOR COMMENT	09/24/14
3	REISSUE FOR COMMENT	02/18/15
4	ISSUE FOR CONSTRUCTION	03/31/15
5	ISSUE FOR ZONING	05/01/15
6	REISSUE FOR ZONING	07/08/15

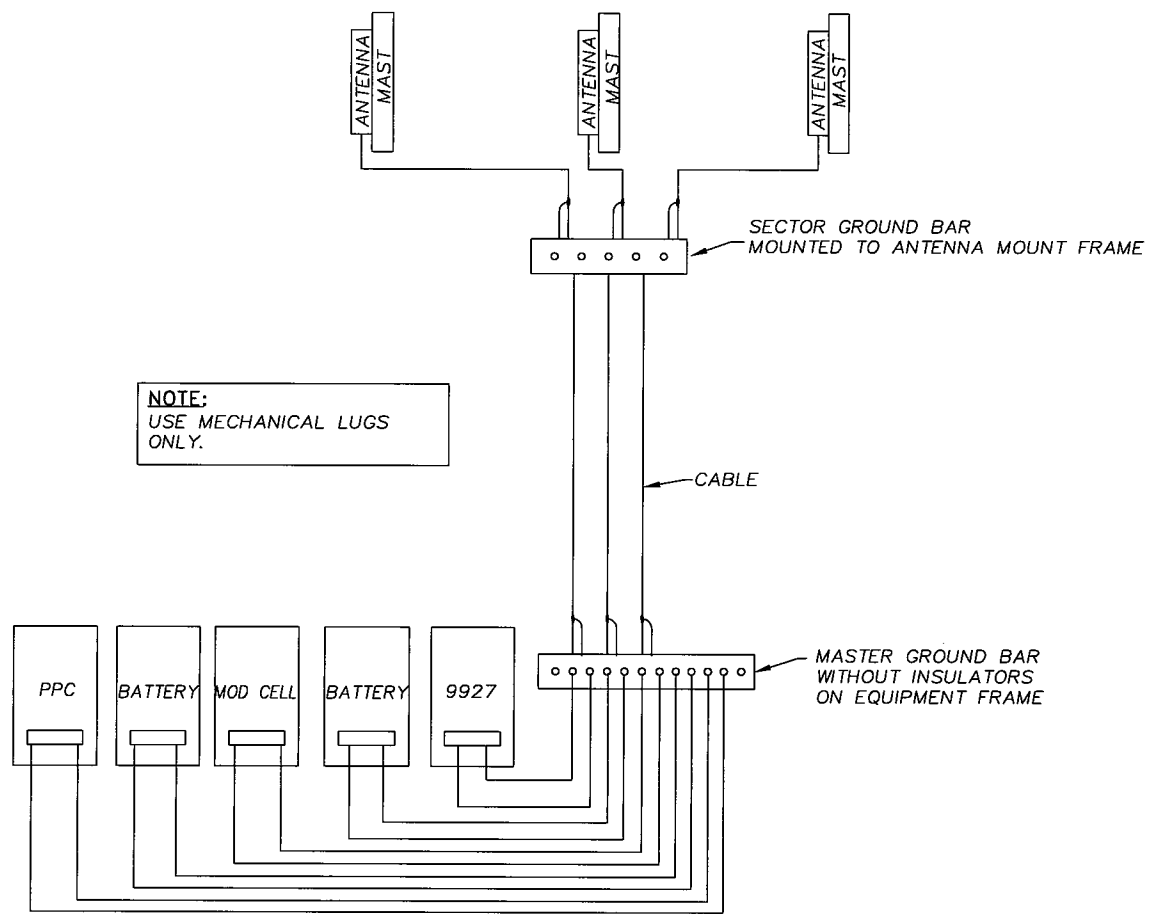


**Mead & Hunt**

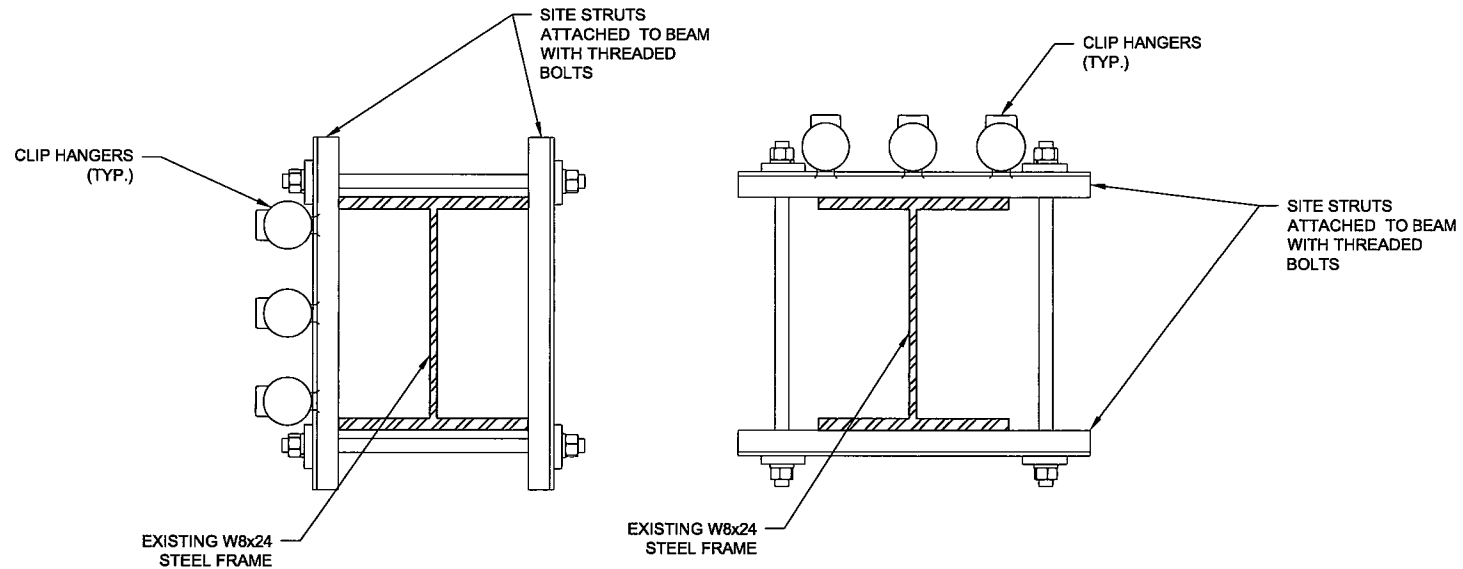
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SUITE 200  
CHARLESTON, WV 25311  
(304) 345-6712 PHONE

PROJECT # R4022100-141667.01

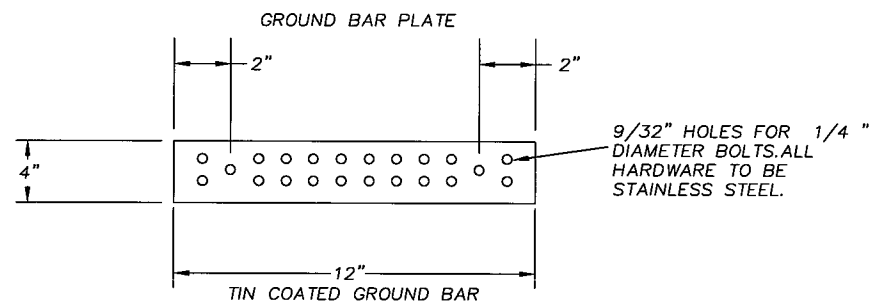
MISCELLANEOUS DETAILS SHEET D-2



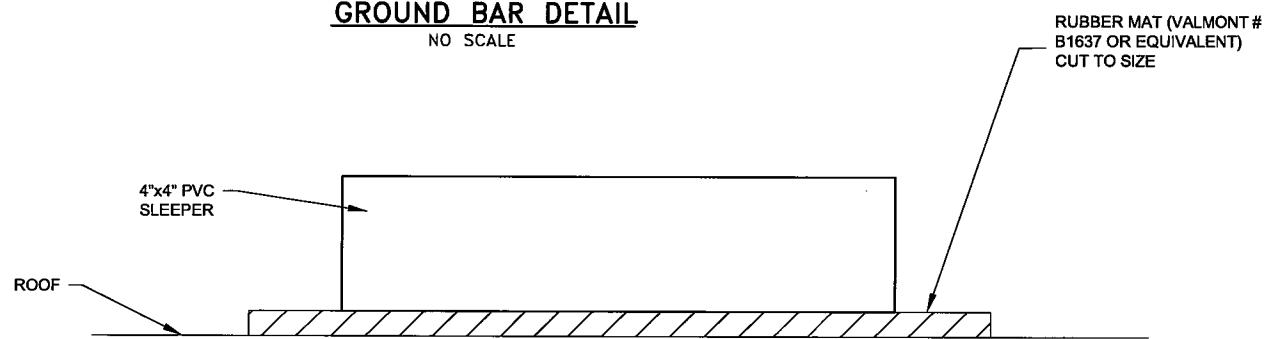
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NO SCALE



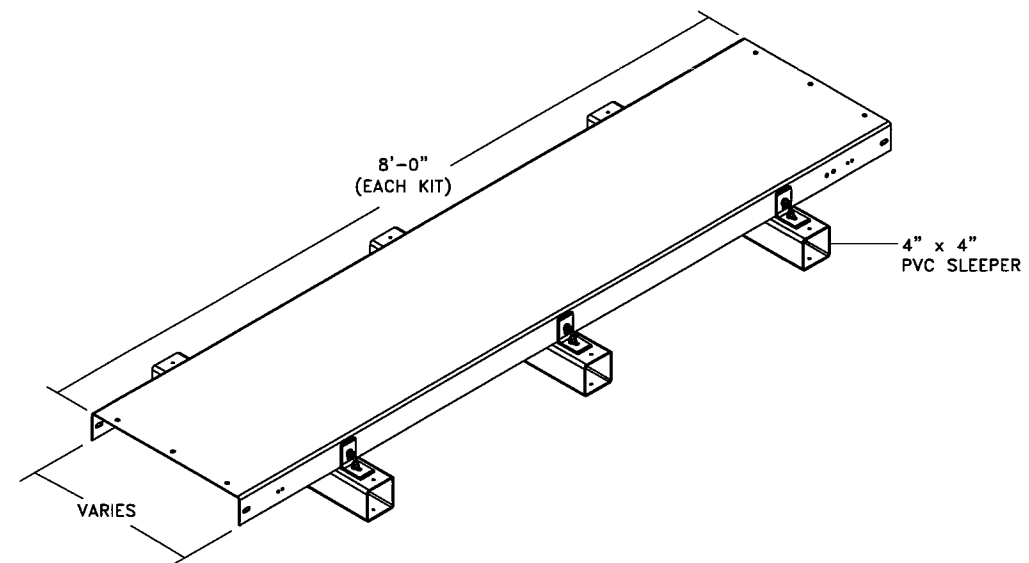
**CABLE CONNECTION TO STEEL FRAME DETAILS**  
NOT TO SCALE



**GROUND BAR DETAIL**  
NO SCALE



**PVC SLEEPER DETAIL**  
NOT TO SCALE



**COAX BRIDGE KIT DETAIL**  
NO SCALE



1150 SHENANDOAH VILLAGE DRIVE  
WAYNESBORO, VA 22980

SITE NAME: COURT SQUARE

SITE NUMBER: CV101

SITE ADDRESS:  
500 COURT SQUARE  
CHARLOTTESVILLE, VA 22902

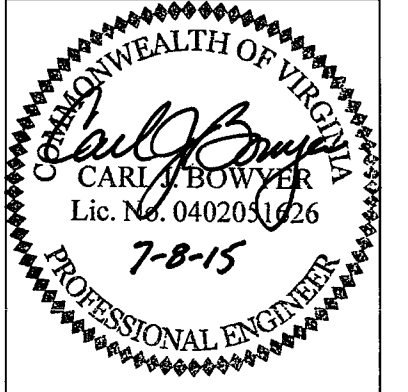
AREA:  
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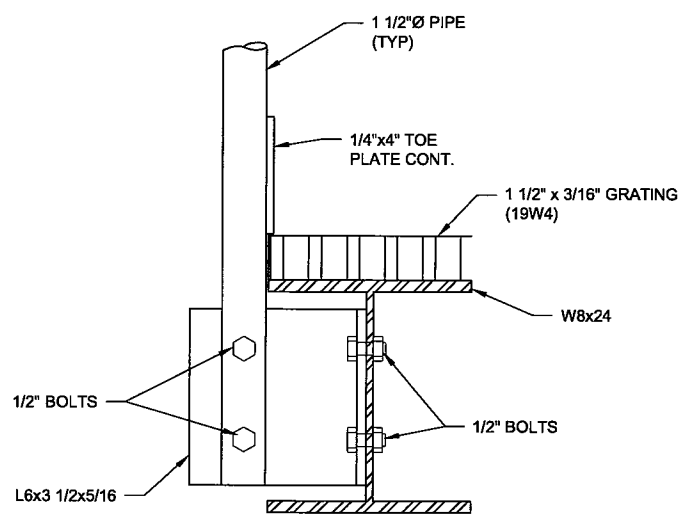


**Mead & Hunt**

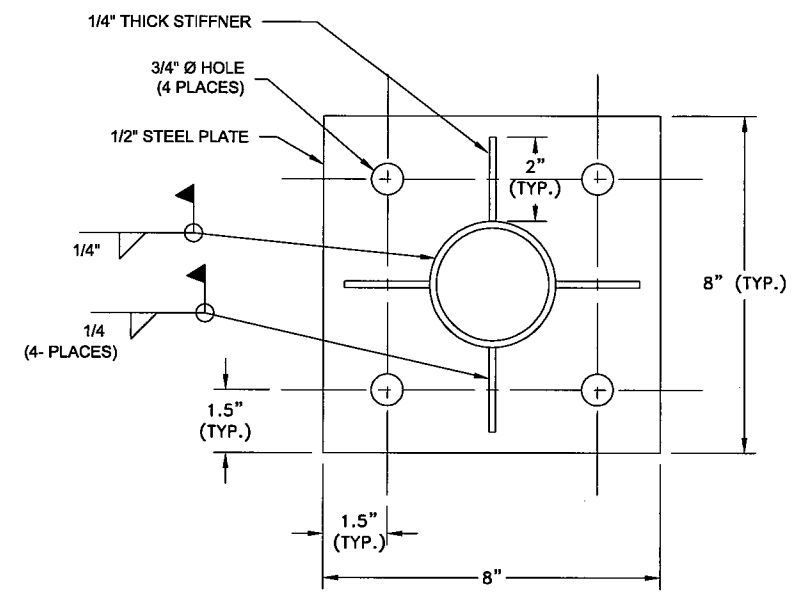
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SUITE 200  
CHARLESTON, WV 25311  
(304) 345-6712 PHONE

PROJECT # R4022100-141667.01

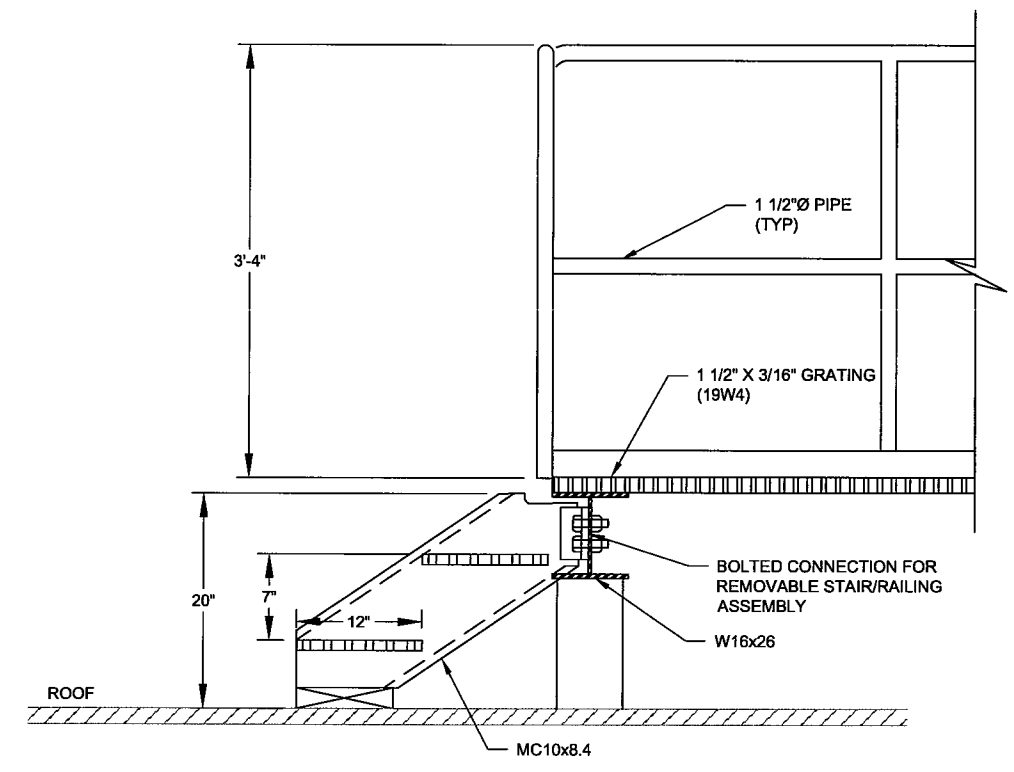
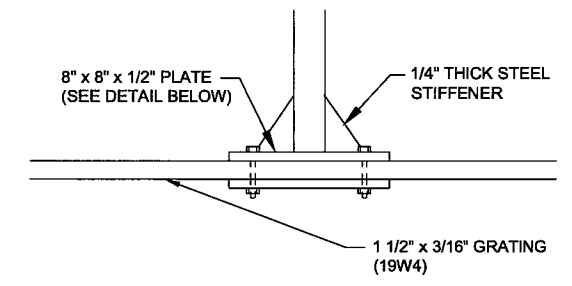
MISCELLANEOUS DETAILS	SHEET
	D-3



**EQUIPMENT PLATFORM RAILING DETAIL**  
NOT TO SCALE



**H-FRAME CONNECTION DETAILS FOR PPC AND DISTRIBUTION BOX**  
NOT TO SCALE



**PLATFORM STAIRS DETAIL**  
NOT TO SCALE



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WAYNESBORO, VA 22980

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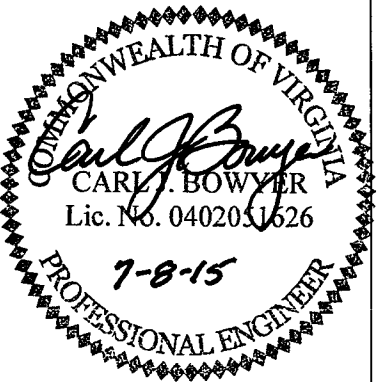
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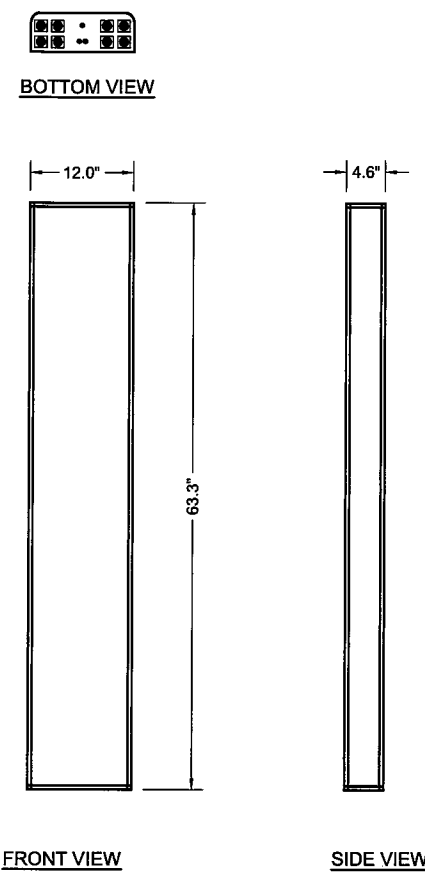


**Mead & Hunt**

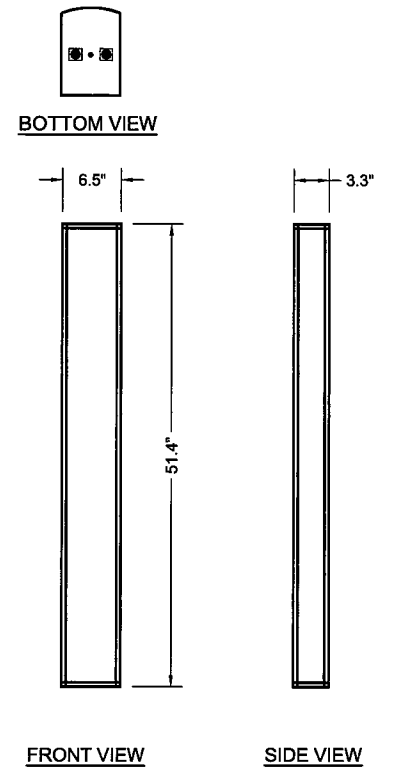
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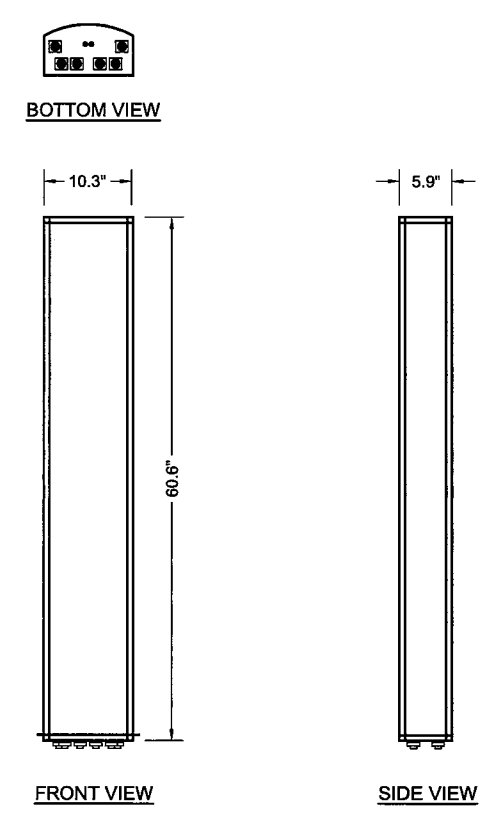
MISCELLANEOUS DETAILS	SHEET D-4
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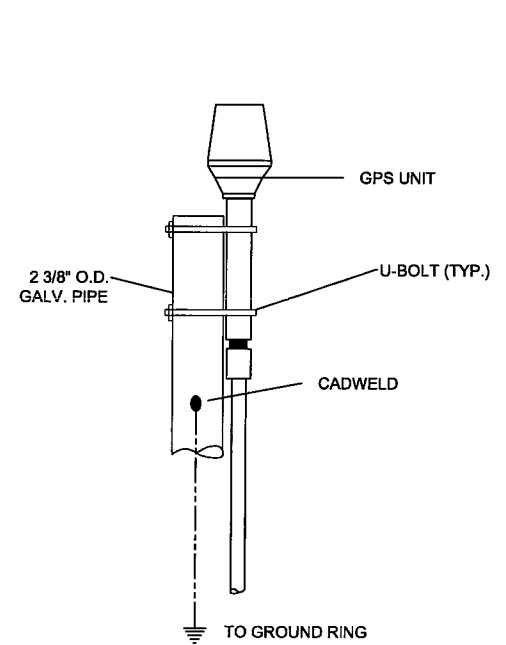
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NOT TO SCALE  
63.3"Lx12.0"Wx4.6"D  
(759.6 SQ. IN.)  
33.0 LBS



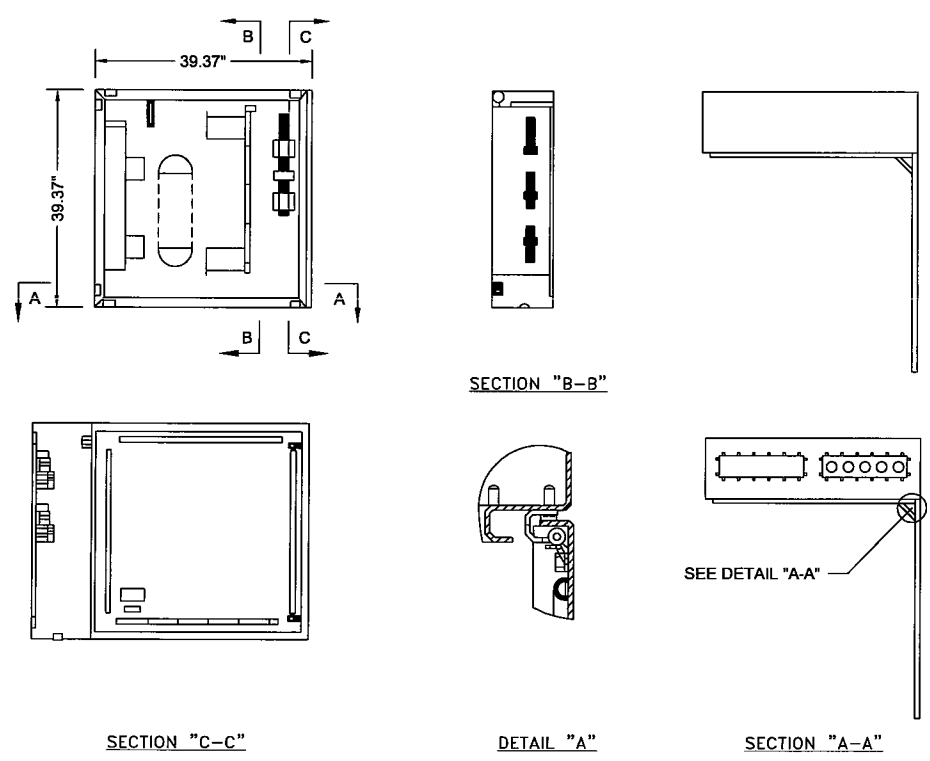
**HBX-6516DS-VTM**  
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51.4"Lx6.5"Wx3.3"D  
(334.1 SQ. IN.)  
10.4 LBS



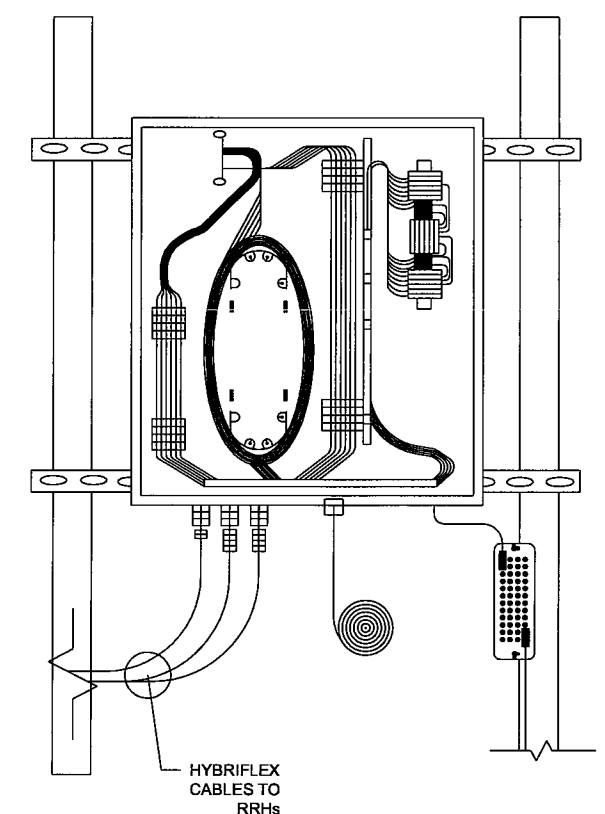
**800 10290V01**  
NOT TO SCALE  
60.6"Lx10.3"Wx5.9"D  
(624.18 SQ. IN.)  
46.3 LBS



**GPS UNIT DETAIL**  
NOT TO SCALE



**DISTRIBUTION BOX PLAN VIEW**  
NOT TO SCALE



**DISTRIBUTION BOX ELEVATION VIEW**  
NOT TO SCALE



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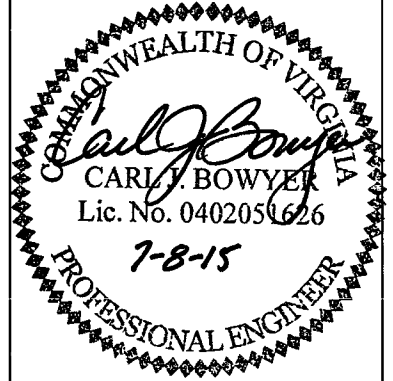
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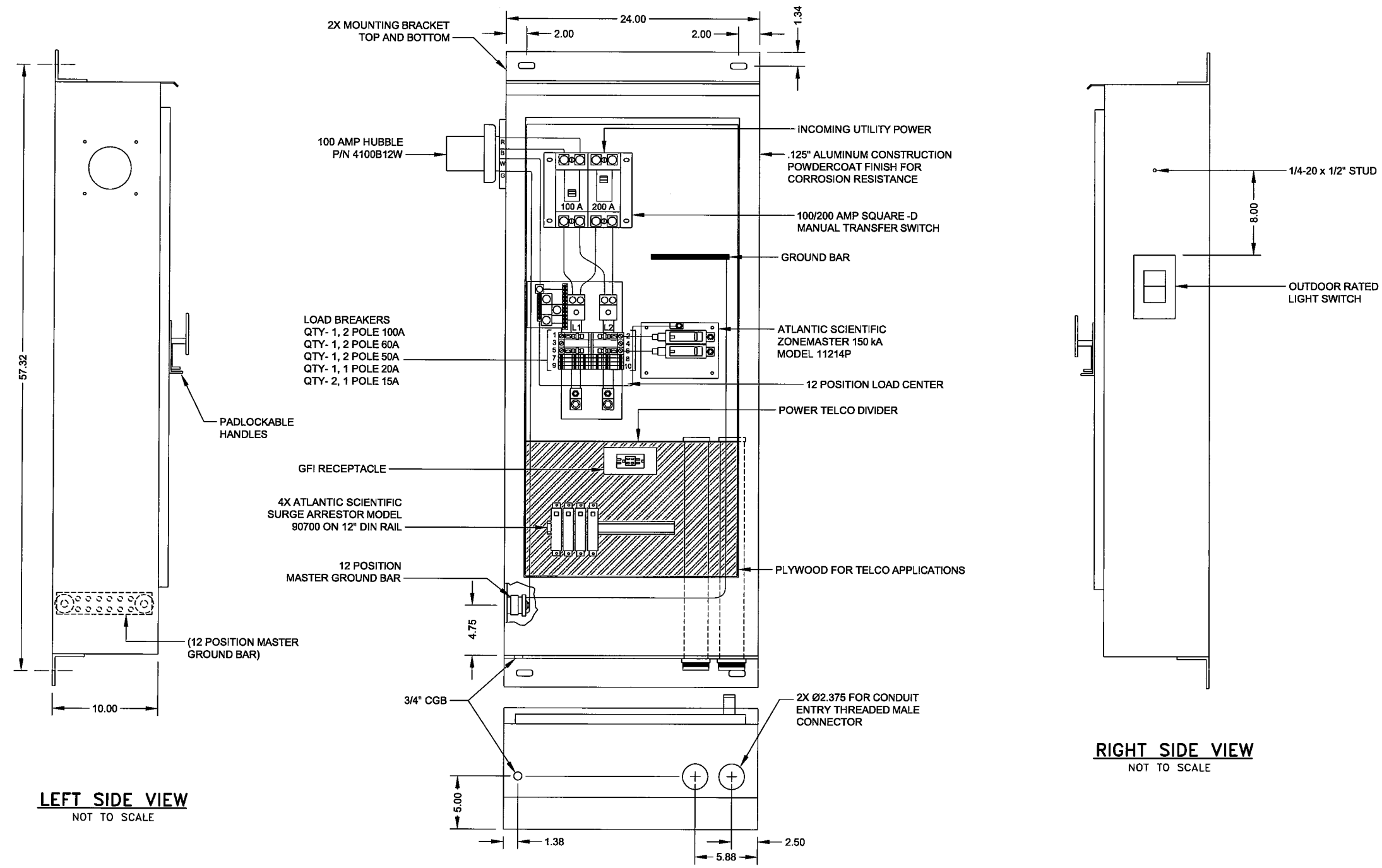


**Mead & Hunt**

400 TRACY WAY  
SUITE 200  
CHARLESTON, WV 25311  
(304) 345-6712 PHONE

PROJECT # R4022100-141667.01

PPC CABINET DETAILS SHEET  
D-5



NOTE:  
DIAGRAM PROVIDED FOR GENERAL ILLUSTRATIVE PURPOSES ONLY. PPC CABINET AS PER MANUFACTURER'S SPECIFICATIONS BASED ON ELECTRICAL REQUIREMENT FOR THE PROJECT.

**GENERAL NOTES - ELECTRIC WORK**

**A. WORK INCLUDED:**

THIS SPECIFICATION AND ACCOMPANYING DRAWINGS CONTEMPLATES THE PROVISIONS AND INSTALLATION REQUIRED BY THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE THE INSTALLATION OF THE ELECTRICAL WORK IN CONNECTION WITH NTELOS' TOWER SITE AND SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:

1. THE PROVISIONS FOR THE INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH A EQUIPMENT CABINET AND SECONDARY GROUNDING, EXISTING TOWER GROUNDING, AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
2. THE PROVISIONS FOR THE INSTALLATION OF AN ELECTRICAL SERVICE AND ALL ASSOCIATED CONDUIT AND WIRING AS REQUIRED.
3. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. (UNLESS OTHERWISE NOTED)
4. ALL SPARE CONDUITS SHALL BE LEFT WITH A PULL WIRE FOR FUTURE USE. STUB BOTH ENDS OF SPARE CONDUIT 12 INCHES ABOVE FINISHED GRADE AND INSTALL PLUGS AT BOTH ENDS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS AND CONDUIT, AND MAKE THE CONNECTION TO THE SERVICE EQUIPMENT WITHIN THE EQUIPMENT CABINET.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL A 200 lb TEST PULL LINE IN ALL SPARE CONDUIT.
7. THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL AND TELEPHONE SERVICE CONTACTS AT THE START OF CONSTRUCTION.
8. THE ABOVE GRADE CONDUIT RISERS SHALL BE GALVANIZED STEEL WITH MATCHING FITTINGS.
9. THE CONTRACTOR SHALL PERFORM ALL WORK SHOWN ON THE EQUIPMENT DRAWINGS, NOTED FIELD WORK, AND/OR AS OTHERWISE NOTED TO BE COMPLETED IN THE FIELD.
10. ALL WIRE SHALL BE (COPPER, 600V THHW, 90°C) UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL MAINTAIN A DISTANCE OF 12 INCHES BETWEEN EXISTING/NEW TELCO & ELECTRIC CONDUITS UNLESS NOTED OTHERWISE.
12. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE PROPOSED GROUNDING SYSTEM PRIOR TO TRENCHING.

**B. CODES, PERMITS AND FEES:**

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL ASSOCIATED FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL STATE, LOCAL, AND NATIONAL APPLICABLE CODES AND ORDINANCES RELATIVE TO THE DESIGN.
3. PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT, SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARDS SPECIFICATIONS OF THE FOLLOWING RECOGNIZED AUTHORITIES:  
 A.N.S.I. - AMERICAN NATIONAL STANDARDS INSTITUTE  
 I.E.E.E. - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS  
 N.E.C. - NATIONAL ELECTRIC CODE  
 N.E.M.A. - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION  
 N.F.P.A. - NATIONAL FIRE PROTECTION ASSOCIATION  
 U.L. - UNDERWRITERS LABORATORIES, INC.
4. THE CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE STATE, CITY, OR COUNTY IN WHICH THE WORK IS TO BE PERFORMED.

**C. GROUNDING ELECTRODE SYSTEM**

**1. CONNECTIONS**

ALL GROUNDING CONNECTIONS SHALL BE MADE UTILIZING AN EXOTHERMIC WELDED PROCESS (CADWELD OR APPROVED EQUAL), UNLESS OTHERWISE SHOWN. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, X'S, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES, AND LIGHTING PROTECTION SYSTEM AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE CADWELDED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.

**2. GROUND RODS**

ALL GROUND RODS SHALL BE 5/8" INCH STAINLESS STEEL OR COPPER CLAD STEEL COPPERWELD OR APPROVED EQUAL. THE MINIMUM NUMBER OF GROUNDING RODS REQUIRED SHALL BE THE NUMBER AS SHOWN AND AT THE LOCATIONS AS INDICATED ON THE PLANS. GROUNDING RODS SHALL BE DRIVEN VERTICALLY IN UNDISTURBED EARTH FOR ITS FULL LENGTH SO THAT THE TOP IS 24 INCHES BELOW FINISHED GRADE. ALL GROUND RODS SHALL BE AT LEAST 8 FEET APART UNLESS OTHERWISE NOTED.

**3. GROUNDING LEADS**

ALL GROUND LEADS CONNECTED TO BURIED GROUND RINGS SHALL BE #2 AWG TINNED SOLID COPPER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 FEET OF #2 AWG TINNED SOLID COPPER COILED AT EACH EQUIPMENT CABINET, COAX ENTRY GROUND BAR, PIPE BRIDGE SUPPORT FOUNDATIONS, AND TOWER FOUNDATIONS FOR TERMINATION BY THE ELECTRICAL CONTRACTOR. AFTER CABINET INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL SPLICE GROUND RING LEAD TO #2 AWG INSULATED STRANDED COPPER WIRE SUPPLIED WITH CABINET.

**4. GROUND RING**

THE GROUND RING REQUIRED TO GROUND THE EQUIPMENT FRAME SHALL BE #2 AWG TINNED SOLID COPPER CABLE IN DIRECT CONTACT WITH THE EARTH AT A DEPTH OF NOT LESS THAN 24 INCHES. CONDUCTOR BENDS SHALL HAVE A MINIMUM RADIUS OF 12 INCHES. A 2 FOOT CLEARANCE FROM ANY FOUNDATION OR SIDEWALK SHALL BE MAINTAINED.

**5. BACKFILL**

BACK FILL MATERIAL SHALL BE NON-CORROSIVE, LOW RESISTIVITY MATERIAL, FREE OF STONE, DEBRIS, ETC. AND TAMPED DOWN THOROUGHLY IN LAYERS NOT EXCEEDING SIX (6) INCHES IN DEPTH, AND COMPACTED TO AT LEAST 95% OF ITS ORIGINAL DENSITY BEFORE EXCAVATION.

**6. MISCELLANEOUS**

ALL EXTERIOR METAL SHALL BE CONNECTED TO THE GROUNDING SYSTEM WITH HIGH PRESSURE 2-BOLD LUG BY BURNDY OR BY THE EXOTHERMIC WELDED PROCESS (CADWELD OR APPROVED EQUAL) AS APPLICABLE. ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY THE EXOTHERMIC WELDED PROCESS (CADWELD OR APPROVED EQUAL) AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. ALL MECHANICAL FASTENER CONNECTIONS CONNECTED TO GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITOR; THOMAS AND BETTS KOPR - SHIELD.

**7. UTILITY COMPANY COORDINATION**

ELECTRICAL CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH THE RULES AND GUIDELINES OF THE LOCAL UTILITY COMPANY. BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THE PROJECT AND SHALL DETERMINE ALL REQUIRED EQUIPMENT AND SERVICE CHARGES AND SHALL INCLUDE IT IN HIS BID COST.

**8. GROUND TEST**

GROUND TESTS SHALL BE PERFORMED UTILIZING A BIDDLE GROUND OHMER OR THE METHOD OF USING TWO AUXILIARY GROUND RODS MAY BE USED AS DESCRIBED IN I.E.E.E. STANDARD No. 550, PARAGRAPH 3.42. THE I.E.E.E. METHOD REQUIRES THE USE OF AN A.C. TEST CURRENT. THE AUXILIARY TEST RODS MUST BE AT A SUFFICIENT DISTANCE AWAY FROM THE ROD UNDER TEST SO THAT THE REGIONS IN WHICH THEIR RESISTANCE IS LOCATED DOES NOT OVERLAP. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF ANY EXISTING GROUND RING BY SPLICING (VIA CADWELD) ANY CUT OR BROKEN SECTIONS WITH #2 SOLID TINNED COPPER TO THE EXISTING OR NEW GROUNDING SYSTEM.

**D. TESTING**

1. ALL TEST SHALL BE PERFORMED BY AUTHORIZED AND QUALIFIED PERSONNEL.
2. THE CONTRACTOR SHALL CONDUCT GROUND RESISTANCE TEST IN THE FORMAT AS FOLLOWS: TESTS SHALL BE PERFORMED UNDER DRY SOIL CONDITIONS WITH THE GROUND RODS CONNECTED AND WHEN NO STANDING OR GROUND WATER HAS BEEN PRESENT FOR THE PAST TEN DAYS. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS, THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.
3. THE CONTRACTOR SHALL CALL AN NTELOS REPRESENTATIVE FOR INSPECTION OF THE GROUNDING SYSTEM 48 HOURS PRIOR TO ITS COMPLETION. THE SYSTEM SHALL BE LEFT UNCOVERED UNTIL APPROVED.
4. UPON COMPLETION OF THE GROUNDING SYSTEM, THE ELECTRICAL CONTRACTOR SHALL MEGGER TEST THE GROUND SYSTEM. THE TEST IS TO BE PERFORMED BEFORE CONNECTING IT TO THE TOWER RING AND THEN AGAIN THEREAFTER. MAXIMUM RESISTANCE LEVEL IS 5 OHMS. THE LOCATION, DATE, TIME, WEATHER CONDITIONS, AND SOIL MOISTURE CONTENT SHALL BE RECORDED. IF 5 OHMS IS EXCEEDED WITHIN THE CURRENT CONFIGURATION, THE ELECTRICAL CONTRACTOR SHALL SUBMIT A QUOTE TO THE OWNER TO LOWER THE RESISTANCE TO 5 OHMS OR LESS.

**E. ELECTRICAL LOADS**

1. THE EQUIPMENT IS SET UP FOR A 200 AMP, 120/240 VOLT, SINGLE PHASE, THREE WIRE ELECTRICAL SERVICE. THE TOTAL CONNECTED LOAD IS 10.1 KILOVOLT-AMPERES (KVA).

**SPECIAL CONTRACTOR NOTES**

**NOTE 1:**

1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ANY EXISTING GROUNDING GRID PRIOR TO TRENCHING.
2. CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING GROUND RING BY SPLICING (VIA CADWELD) ANY CUT OR BROKEN SECTIONS WITH #2 SOLID TINNED COPPER TO THE EXISTING OR NEW GROUNDING SYSTEM.

**NOTE 2:**

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL HAND DIG IN THE VICINITY OF ALL EXISTING LINES.

**F. TELCO**

1. PULL BOX (12" x 12") TO BE INSTALLED ON THE END OF THE TELCO CONDUIT AT METERBOARD AND PPC CABINET.

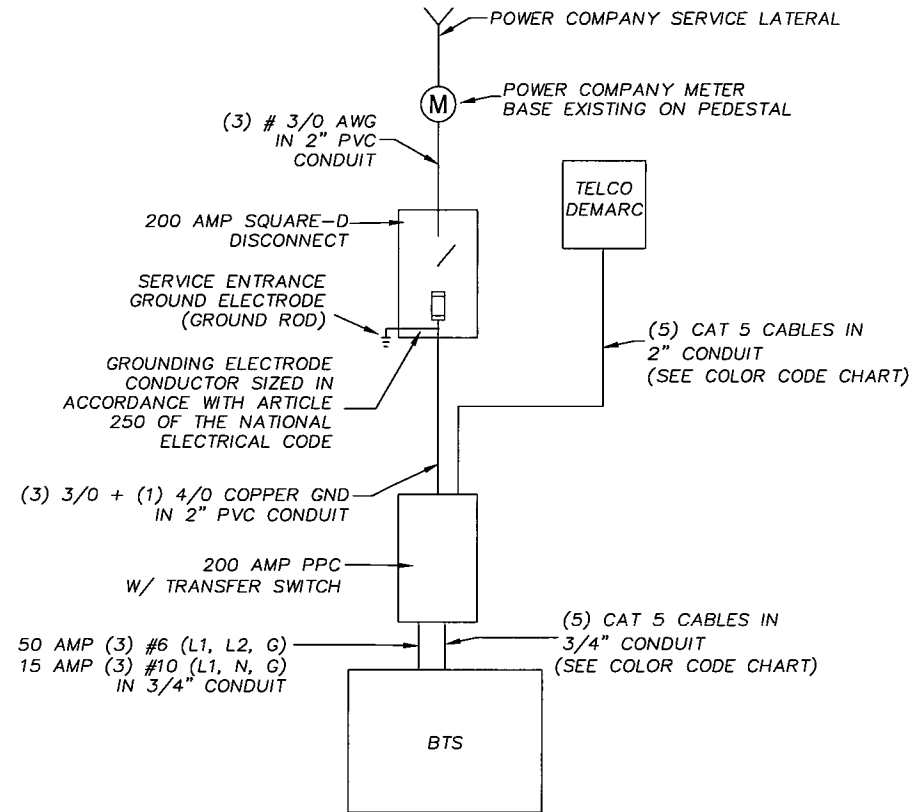
**NOTES:**

1. THE SUBCONTRACTOR SHALL PROVIDE 200 AMP, SINGLE PHASE, 120/240 VAC 60HZ SERVICE FOR THE SITE.
2. THE SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
4. THE SUBCONTRACTOR SHALL INSTALL SUFFICIENT LENGTHS OF CONDUIT INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC.) NECESSARY FOR CONNECTING FROM CONDUIT TO THE INTERIOR OF THE BTS CABINET.
5. THE SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
6. AT THE END OF THE CONDUIT, CUT COIL AND TAPE A 10' FOOT PITTAIL FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
7. THE SUBCONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL SERVICE ENTRANCE EQUIPMENT IS INSTALLED.
8. THE CONTRACTOR SHALL VERIFY THAT THE INSTALLATION PERFORMED BY HIS SUBCONTRACTOR CONFORMS TO THE CURRENT NATIONAL CODE.

**CABLE COLOR CODE CHART**

CAT -5 CABLE COLOR CODE CHART  
(CABLE JACKET NEEDS TO BE APPROPRIATE COLOR, NOT COLORED TAPE)

- 1) YELLOW
- 2) WHITE
- 3) BLUE
- 4) GREEN
- 5) YELLOW WITH ONE STRIPE BLACK TAPE
- 6) WHITE WITH ONE STRIPE BLACK TAPE
- 7) BLUE WITH ONE STRIPE BLACK TAPE
- 8) GREEN WITH ONE STRIPE BLACK TAPE
- 9) RED



**ONE-LINE DIAGRAM  
UNDERGROUND SERVICE TO PEDESTAL**

NOT TO SCALE

**NOTE:**

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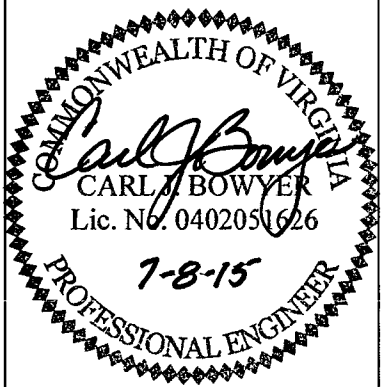
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PROJECT # R4022100-141667.01

ELECTRICAL NOTES	SHEET
	D-6

**GENERAL NOTES**

1. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENT AGENCIES.
2. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
3. CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. LOCATION OF EXISTING SEWER, WATER OR GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN, ARE ONLY APPROXIMATELY CORRECT. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES (INCLUDING TEST PITS BY HAND IF NECESSARY) IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE OWNER'S ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLANS. IF THERE APPEARS TO BE A CONFLICT, OR UPON THE DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS, CALL "MISS UTILITY" FOR ASSISTANCE.
5. EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY THE CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED OR REPLACED IN-KIND.
6. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER, THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
7. THE CONTRACTOR SHALL COORDINATE THE REQUIREMENTS FOR AND LIMITS OF OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE WITH NTELOS.
8. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) FULL YEAR FROM THE DATE OF ACCEPTANCE.
9. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE CHARGED EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY COUNTY INSPECTORS.
10. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE IN WHICH THE WORK IS TO BE PERFORMED. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
11. ALL MANUFACTURER'S HARDWARE ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
12. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ANY FIELD MODIFICATIONS THERETO, TO INSURE THE SAFETY OF THE STRUCTURE'S COMPONENT PARTS, AND EMPLOYEES DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
13. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK PERFORMED ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE OWNER'S ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
14. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD WORKING QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND THE OWNER'S ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
16. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.
17. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
18. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
19. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
20. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
21. THE ELECTRICAL AND RF STANDARDS AND SPECIFICATIONS SHOWN ON THESE PLANS HAVE BEEN PROVIDED BY THE CLIENT. MEAD & HUNT, INC. HAS NOT DESIGNED NOR PREPARED ANY OF THE ELECTRICAL AND RF STANDARDS AND SPECIFICATIONS. THEY HAVE BEEN PROVIDED FOR INFORMATION ONLY.
22. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
23. COORDINATE THE CONSTRUCTION STAGING AREA WITH THE PROPERTY OWNER AND THE PROPERTY MANAGER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.
24. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS AND PLAN DIMENSIONS, AND NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
25. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE WORK SITE ON A DAILY BASIS.



1150 SHENANDOAH VILLAGE DRIVE  
WAYNESBORO, VA 22980

SITE NAME: COURT SQUARE

SITE NUMBER: CV101

SITE ADDRESS: 500 COURT SQUARE  
CHARLOTTESVILLE, VA 22902

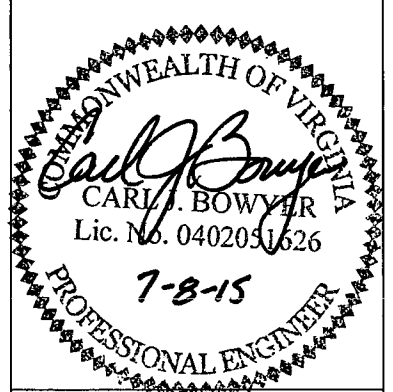
AREA: LEASE AREA = 208 SQ. FT.

BUILDING OWNER:  
500 COURT SQUARE ASSOCIATION

LATITUDE: N38° 01' 54.98"

LONGITUDE: W78° 28' 41.02"

NO.	REVISION/ISSUE	DATE
1	ISSUE FOR COMMENT	09/11/14
2	REISSUE FOR COMMENT	09/24/14
3	REISSUE FOR COMMENT	02/18/15
4	ISSUE FOR CONSTRUCTION	03/31/15
5	ISSUE FOR ZONING	05/01/15
6	REISSUE FOR ZONING	07/08/15



400 TRACY WAY  
SUITE 200  
CHARLESTON, WV 25311  
(304) 345-6712 PHONE

PROJECT # R4022100-141667.01

GENERAL NOTES	SHEET
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