

PROJECT SUMMARY	
SITE NAME:	24265
SITE ADDRESS: (ESTIMATED)	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
JURISDICTION:	CITY OF DETROIT
<u>SITE COORDINATES:</u>	
LATITUDE:	42° 21' 7.164" N
LATITUDE:	42.35199°
LONGITUDE:	83° 7' 16.824" W
LONGITUDE:	-83.12134°
ELEVATION:	±610'-5"
PROPERTY DEFINITION:	R.O.W.
FUZE PROJECT ID:	17119111
MDG LOCATION ID:	5000939279
PROPOSED POLE HEIGHT:	40'-0"
PROPOSED POLE CLASS:	TBD

**verizon**

SITE NAME: 24265

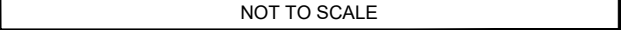
PROPOSED SMALL CELL EQUIPMENT  
ON A NEW VERIZON POLE

VICINITY MAP



SHEET SCALE FACTOR:  
PLOT SIZE:  
11" x 17": TO SCALE

## LOCATION MAP




**1 (800) 482-7171**  
[www.missdig.com](http://www.missdig.com)  
 CONTRACTOR TO CALL MICHIGAN  
 ONE-CALL SYSTEMS AT LEAST 72 HOURS  
 PRIOR TO DIGGING.

[illegible]

## SCOPE OF WORK

- INSTALLING NEW WOOD UTILITY POLE WITH (2) BOLLARD PROTECTION (CLASS TBD)
- INSTALLING EQUIPMENT
  - (3) ERICSSON 1672 ANTENNAS
  - (1) COMMScope NNV4S4-360S-F2
  - (1) ERICSSON 4890 RRU
  - (1) ERICSSON 6308 PSU
  - CFIT BOX
  - (1) FIBER & (1) POWER CABLE PER ANTENNA
  - DISCONNECT

## STATE COUNTY MAP



2

GENERAL NOTES

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL VISIT THE JOB SITE(S) AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED PER THE CONTRACT DOCUMENTS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER.
4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. IF THESE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW THE CONFLICT FOR DIRECTION WITH THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION TEAM AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER. (BASE COMMANDER OR AUTHORIZED AGENT)
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF EXTENT.
9. KEEP THE GENERAL AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION DAILY.
10. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED.
11. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST BEYOND WHAT IS NOTED. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
12. ALL MOUNTING HARDWARE SUCH AS BOLTS, NUTS, LAG SCREWS, CLEVIS, CONDUIT STRAPS, STAPLES, (ANYTHING EXPOSED AND CONNECTING EQUIPMENT TO THE POLE SHALL BE HOT DIPPED GALVANIZED, UNLESS OTHERWISE STATED)

DEFINITIONS

1. "TYPICAL" OR "TYP." MEANS THAT THIS ITEM IS VIRTUALLY IDENTICAL ACROSS SIMILAR CONDITIONS. "TYP." SHALL BE UNDERSTOOD TO MEAN "TYPICAL WHERE OCCURS" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR CONSIDERATION OF SPECIFIC CONDITIONS.
2. "SIMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
3. "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE OR BY THE CONTRACT DOCUMENTS.
4. "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
5. THE TERM "VERIFY" OR "V.I.F" SHALL BE UNDERSTOOD TO MEAN VERIFY IN FIELD WITH ARCHITECT AND REQUIRES THAT THE CONTRACTOR CONFIRM INTENTION REGARDING NOTED CONDITION AND PROCEED ONLY AFTER RECEIVING DIRECTION.
6. WHERE THE WORDS "OR EQUAL" OR WORDS OF SIMILAR INTENT FOLLOW A MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SIGNED APPROVAL OF ANY DEVIATION TO SAID SPECIFICATION PRIOR TO CONTRACTOR'S ORDERING OR INSTALLATION OF SUCH PROPOSED EQUAL PRODUCT.
7. FURNISH: SUPPLY ONLY, OTHERS TO INSTALL. INSTALL: INSTALL ITEMS FURNISHED BY OTHERS. PROVIDE: FURNISH AND INSTALL.

PROJECT SPECIFIC NOTES

1. THIS SET IS PROVIDED TO ILLUSTRATE THE EXPECTED SCOPE OF DRAWINGS, QUALITY OF DRAWINGS AND EXTENT GRAPHIC STANDARDS. NOTES ARE FOR A&E CONTRACTOR REFERENCE TO HELP CLARIFY THE SCOPE. ADDITIONAL DRAWINGS MAY BE REQUIRED TO MEET THE REQUIREMENTS OF A GIVEN BASE. ALL EXAMPLES SHOWN ARE FOR REFERENCE ONLY AND ANY NOTES, DETAILS, CALCULATIONS OR OTHER WORK NEEDS TO BE COMPLETED OR CONFIRMED BY THE CONTRACTOR GENERATING THE DRAWINGS IN CONSTRUCTION DOCUMENTS.
2. THIS SET IS TO BE PRINTED AT 11" x 17". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THIS SIZE IS ACCEPTABLE BY THE BASE AND TO PROVIDE A LARGER STANDARD SIZE IF REQUIRED.
3. IT IS THE RESPONSIBILITY OF THE ENGINEER TO CONFIRM ALL WORK SHOWN IS IN COMPLIANCE WITH BASE AND FEDERAL CODES. DRAWINGS SHOWN WITHIN THIS SET ARE SAMPLES AND MAY NOT REFLECT ALL OF THE REQUIRED ELEMENTS, CLEARANCES OR OTHER ITEMS OF ASSEMBLIES NEEDED TO BE CODE COMPLIANT IN THE PARTICULAR MUNICIPALITY THE NODE IS LOCATED WITHIN.
4. ALL SIDEWALK REMOVAL AND REPLACEMENT PREFORMED WITHIN THE ROW SHALL CONFORM TO THE COD STANDARD PLAN C-4462 ([HTTPS://DETROITMI.GOV/DEPARTMENTS/DEPARTMENT-PUBLIC-WORKS/RIGHT-WAY-PERMITS-AND-STANDARDS](https://detroitmi.gov/departments/departments-public-works/right-way-permits-and-standards)).

GROUND CONSTRUCTION NOTES:

1. 120/240V POWER REQUIRED FOR 3-WIRE SERVICE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL STANDARDS AND REGULATIONS AS WELL AS NEC.
3. CALL MICHIGAN ONE CALL 72 HOURS PRIOR TO EXCAVATING AT (800) 482-7171.
4. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. ALL EQUIPMENT TO BE BONDED.
6. METERING CABINET (IF INSTALLED) REQUIRES 3' CLEARANCE AT DOOR OPENING.

STANDARD GROUNDING NOTES:

1. GROUND TESTED AT 25 OHMS OR LESS.
2. 5/8" x 8' RODS, CAD WELD OR UL LISTED DIRECT BURY CLAMP BELOW GRADE.
3. #6 GROUND AND BOND WIRE.
4. MOLDING, STAPLED EVERY 1' AND AT EACH END.
5. GROUND RODS 18" FROM POLE.

STANDARD CONDUIT NOTES:

1. FOR UNDERGROUND CONDUIT AND ABOVE GRADE RISERS USE SCHEDULE 40.
2. IF DIRECTIONAL BORING PLACE 2" CONDUIT FOR UNDERGROUND POWER APPLICATIONS.
3. IF TRENCHING, PLACE PVC SCH 40 CONDUIT PER TABLE ON SHEET E1 FOR UNDERGROUND POWER APPLICATIONS.
4. RISERS TO BE ATTACHED TO POLE WITH STANDARD STRAPS AND LAG SCREWS.
5. RISER STRAPS TO BE INSTALLED EVERY 5'.
6. CONDUIT UNDER 1" MAY BE ATTACHED WITH GROUND WIRE MOLDING STAPLES.
7. ALL CONDUIT WILL BE PROOFED WITH A MANDREL AND EQUIPPED WITH PULL ROPE OR MULE TAPE.

STANDARD TRENCHING NOTES:

1. MAINTAIN 42" MINIMUM COVER FOR ELECTRICAL CONDUIT.
2. MAINTAIN 42" MINIMUM COVER FOR COMMUNICATION CONDUIT.
3. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
4. IN DIRT SLURRY 18" FROM GRADE AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
5. PLACE WARNING TAPE IN TRENCH 18" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND EQUIPMENT.

UTILITY POLE CONSTRUCTION NOTES:

1. NO BOLT THREADS TO PROTRUDE MORE THAN 1/2".
2. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS.
3. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
4. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
5. 90° SHORT SWEEP UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
6. USE CABLE CLAMPS TO SECURE CABLE TO ARMS; PLACE 2" CARRIER ID TAGS ON BOTH SIDE OF ARMS.
7. USE 90° CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
8. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

VERIZON WIRELESS CONSTRUCTION NOTES:

1. CONTRACTOR IS TO FOLLOW THE MOST CURRENT VZW STANDARDS DOCUMENTS PROVIDED TO COMPLETE THIS INSTALLATION.
2. CONTRACTOR SHALL COMPLETE VZW PROVIDED "SMALL CELL SWEEP REPORT" WITH ALL INFORMATION FILLED IN ACCURATELY AND COMPLETELY.
3. CONTRACTOR TO REFER TO THE MOST CURRENT VZW STANDARDS FOR APPROVED "PIM" TEST EQUIPMENT AND GUIDELINES.
4. CONTRACTOR IS TO USE BATTERY POWERED "PIM" EQUIPMENT TO VALIDATE THE FINAL LOCATION OF THE JUMPER AND ANTENNA ARE FREE OF INTERNAL AND EXTERNAL "PIM" SOURCES.
5. CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICAL LEAD THAT IS CERTIFIED AND PROFICIENT IN EXECUTING, INTERPRETING AND RECORDING "PIM" MEASUREMENTS.

PREPARED FOR:



PREPARED BY:



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

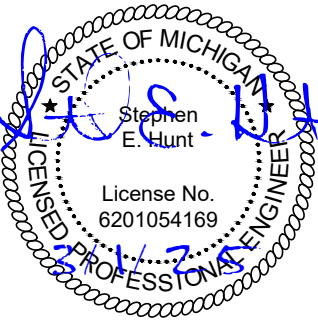
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CHECKED BY:	SEH

REVISIONS			
2	03/01/25	ZCK	CONSTRUCTION ISSUE
1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW
NO.	DATE	BY	DESCRIPTION

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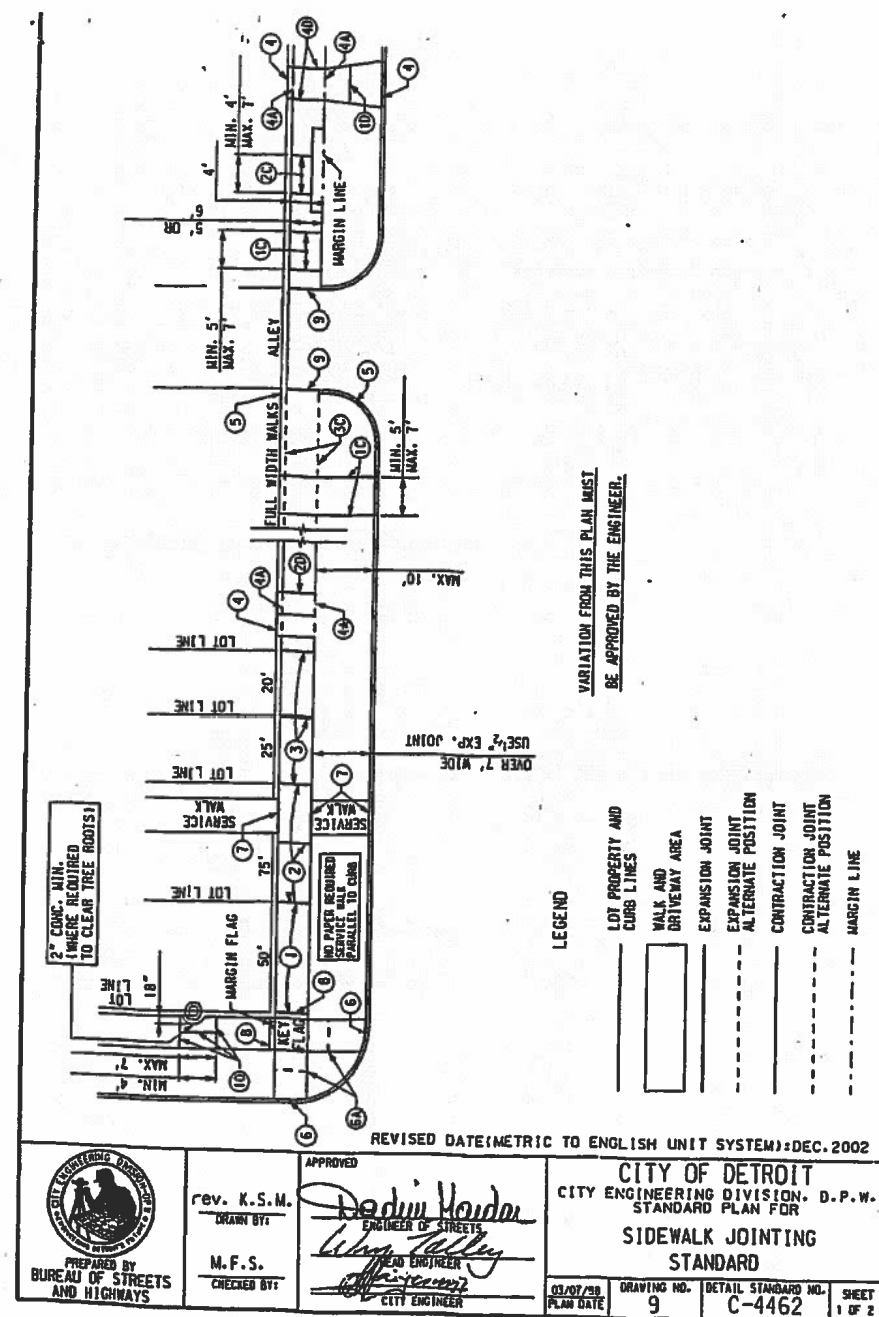
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DESIGN TYPE:	RAWLAND

SHEET TITLE: GENERAL NOTES	
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DRAWING NO. GN1	REVISION: 2
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## LEGEND

LOT PROPERTY AND CURB LINES	
WALK AND DRIVEWAY AREA	
EXPANSION JOINT	
EXPANSION JOINT ALTERNATE POSITION	
CONTRACTION JOINT	
CONTRACTION JOINT ALTERNATE POSITION	
MARGIN LINE	

REVISÉ DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002



PREPARED BY  
BUREAU OF STREETS  
AND HIGHWAYS

rev. K.S.M

M.F.S.

APPROVED

Bodun Haidar

ENGINEER OF STREETS  
*Wm. Talley*  
HEAD ENGINEER

CITY OF DETROIT  
CITY ENGINEERING DIVISION, D.P.W.  
STANDARD PLAN FOR  
SIDEWALK JOINTING  
STANDARD

03/07/98 PLAN DATE	DRAWING NO. 9	DETAIL STANDARD NO. C-4462	SHEET 1 OF 2
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## EXPANSION JOINTS

- ① PLACE 1/2" PAPER EXPANSION JOINTS AT LOT LINES WHEN LOT LINES ARE BETWEEN 25' AND 50' APART.
- ② PLACE ADDITIONAL 1/2" PAPER EXPANSION JOINTS SO THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED 15.2 m WHEN LOT LINES ARE OVER 15.240 m APART.
- ③ PLACE 1/2" PAPER EXPANSION JOINTS AT EVERY SECOND LOT LINE AND CONTRACTION JOINT AT INTERVENING LOT LINE WHEN LOT LINES ARE LESS THAN 25' APART.
- ④ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE OR AT ALTERNATE POSITION (4A) AS SHOWN FOR DRIVEWAY.
- ⑤ PLACE 1" PAPER EXPANSION JOINTS AT CURB AND BUILDING OR PROPERTY LINE FOR FULL WIDTH SIDEWALK EXCEEDING 7' IN WIDTH.
- ⑥ PLACE 1" PAPER EXPANSION JOINTS AT CURB CIRCLES OR AT ALTERNATE POSITION (6A) AS SHOWN.
- ⑦ PLACE 1" PAPER EXPANSION JOINTS AT INTERSECTIONS OF SERVICE WALKS AND SIDEWALKS AND SERVICE WALKS AND CURBS.
- ⑧ PLACE 1" PAPER EXPANSION JOINTS AT MARGIN FLAGS AT CROSSWALKS.
- ⑨ PLACE 1" PAPER EXPANSION JOINTS AT ALLEY APRONS.
- ⑩ PLACE 1/2" PAPER EXPANSION JOINT BOTH SIDES OF SIDEWALK FLAG ABUTTING TREE AND ON CENTERLINE JOINT.

- ①C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 5' NOR MORE THAN 7' ON WALKS 5' WIDE OR WIDER, INCLUDING FULL WIDTH WALKS.
- ②C PLACE CONTRACTION JOINTS AT INTERVALS OF NOT LESS THAN 4' NOR MORE THAN 7' ON WALKS 4' WIDE.
- ③C PLACE CONTRACTION JOINTS AT THE MARGIN LINE ON FULL WIDTH WALKS (OPTIONAL).

- (1D) PLACE CONTRACTION JOINTS IN DRIVEWAYS SO THAT NO SLAB WILL EXCEED THE DIMENSIONS OF 15' BY 15'.  
 (2D) PLACE 1" PAPER EXPANSION JOINTS ON ALL SIDES OF COMMERCIAL DRIVES.  
 (3D) PLACE CONSTRUCTION OR CONTRACTION JOINT ON CENTERLINE WHEN WIDTH OF DRIVEWAY EXCEEDS 15'.  
 (4D) PLACE 1/2" PAPER EXPANSION JOINTS ON BOTH SIDES OF RESIDENTIAL DRIVEWAYS. IF DRIVEWAY EDGE IS WITHIN 2' OF LOT LINE, PLACE THIS EXPANSION PAPER AT PROPERTY LINE.
- CITY OF  
 CITY ENGINEERING  
 STANDARD  
 SIDEWALK

REvised DATE (METRIC TO ENGLISH UNIT SYSTEM): DEC. 2002

CITY OF DETROIT  
CITY ENGINEERING DIVISION, D.P.W.  
STANDARD PLAN FOR  
SIDEWALK JOINTING  
STANDARD

03/07/28 PLAN DATE	DRAWING NO. 9	METAL STANDARD NO. C-4462	SHEET 2 OF 2
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PREPARED FOR:



PREPARED BY:



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

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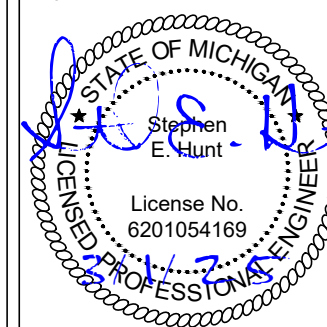
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5207 TIREMAN AVE  
DETROIT, MI 48204

COUNTY:

WAYNE

LATITUDE: 42° 21' 7.164" N

LONGITUDE: 83° 7' 16.824" W

DESIGN TYPE: RAWLAND

SHEET TITLE:

## GENERAL NOTES

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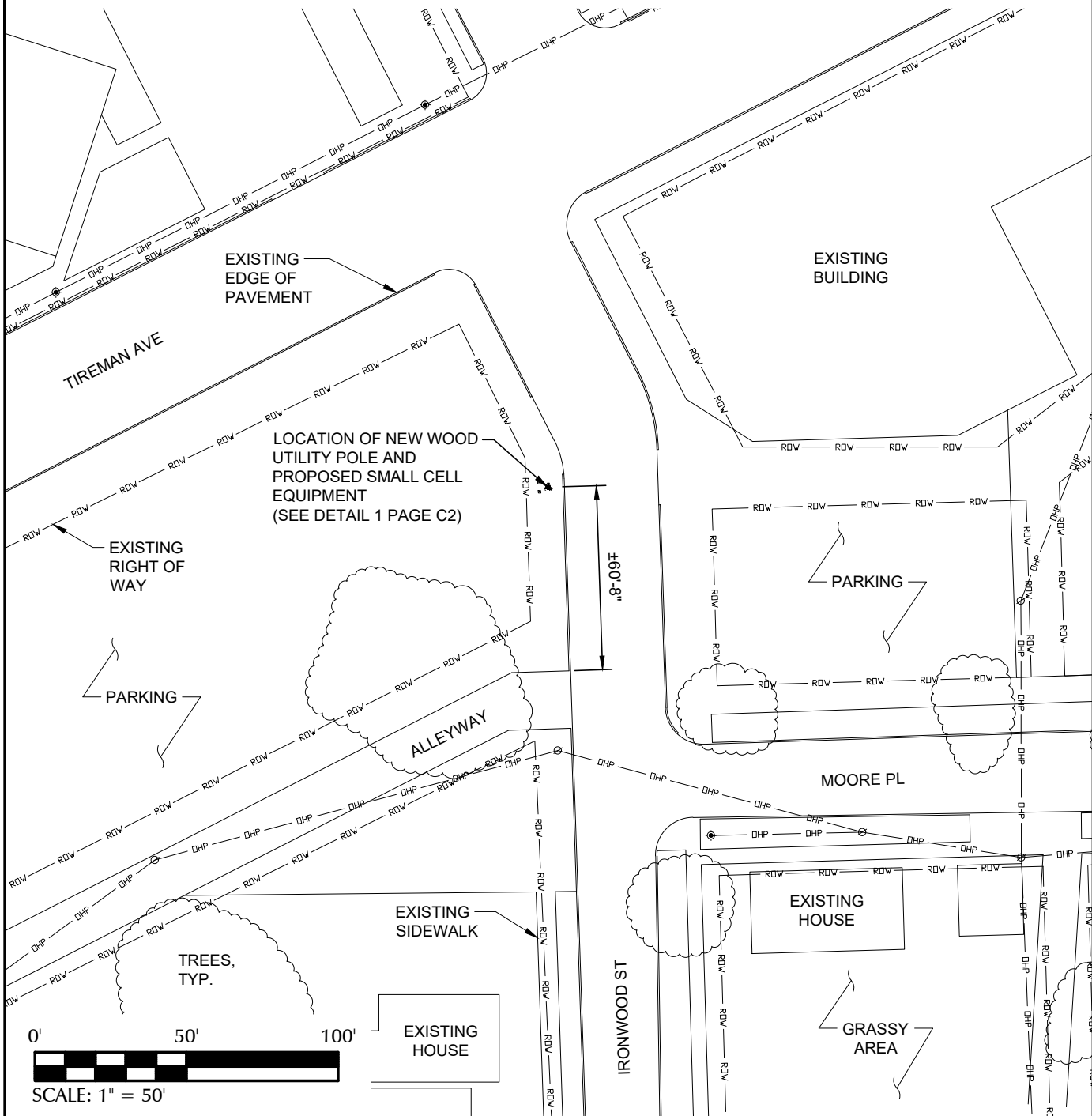
GN2

REVISION:	
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2

NOTES:

1. THIS DRAWING IS BASED ON AERIAL IMAGERY AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE PROPOSED USE DOES NOT REQUIRE FULL OR PART TIME EMPLOYEES AT THE SITE.
3. FOR GENERAL SITE WORK NOTES, SEE SHEET GN1.
4. ALL NORTH ARROWS ON SITE PLANS ARE TRUE NORTH, UNLESS OTHERWISE SPECIFIED.
5. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE. NO OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL BE ALLOWED.
6. RIGHT OF WAY INFORMATION ACQUIRED FROM GIS.



1 OVERALL SITE LAYOUT

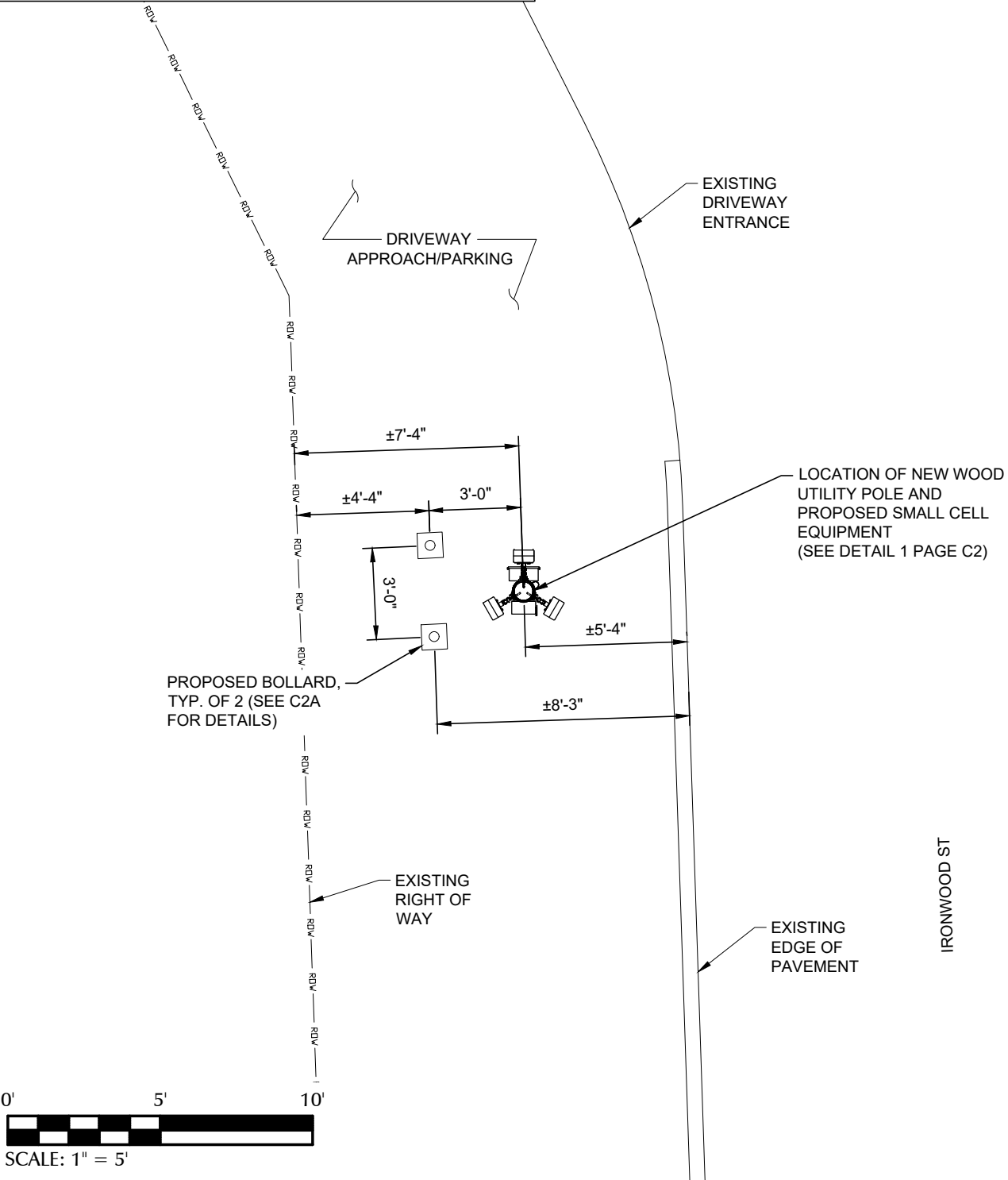
LEGEND

OVERHEAD UTILITIES	DHU	CATCH BASIN	CB
UNDERGROUND POWER	UGP	STREET SIGN	SS
OVERHEAD POWER	DHP	4 WAY STREET SIGN	4WS
UNDERGROUND TELCO	UGT	UTILITY POLE	UP
OVERHEAD TELCO	DHT	LIGHT POLE	LP
GAS LINE	GAS	WATER VALVE	WV
FENCE	F	MANHOLE	M
WOOD FENCE	WF	GAS VALVE	GV
SEWER LINE	SWR	FIRE HYDRANT	FH
WATER LINE	WTR	TELCO PEDESTAL	TP
HYBRID CABLE	HYB	ELECTRICAL BOX	EB
HIGH VOLTAGE POWER	HVP		
FIBER	FBR		
RIGHT-OF-WAY	RDW		
PROPERTY LINE	PL		

UTILITY NOTE:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

MISSDIG DID NOT  
REPORT ANY UTILITIES  
AT NODE LOCATION.



2 ENLARGED SITE LAYOUT

PREPARED FOR:

verizon

PREPARED BY:

TeleCAD  
Wireless

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

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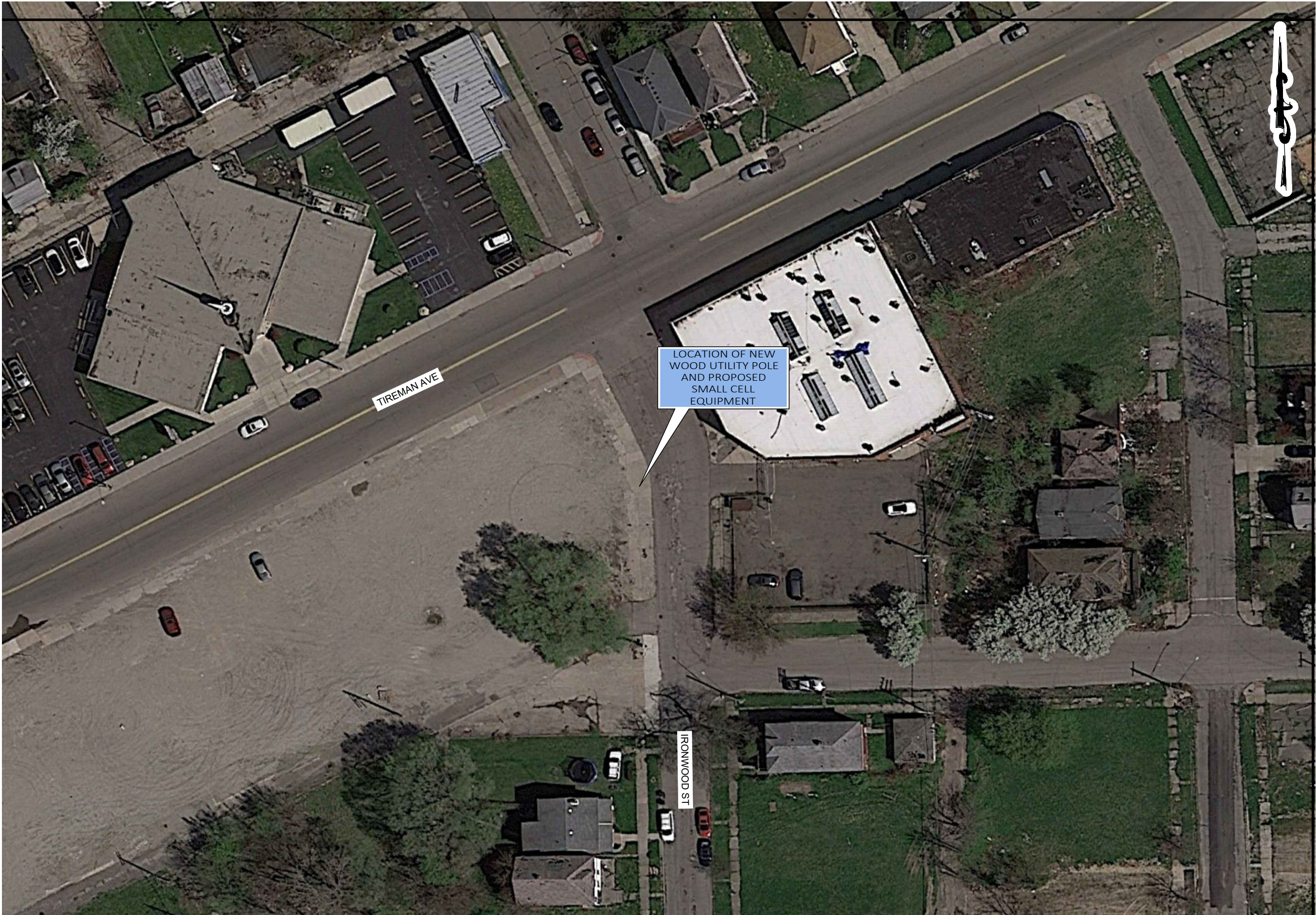
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C1

REVISION:

2





PREPARED FOR:



PREPARED BY:



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Stephen E. Hunt  
License No. 6201054169

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SITE LAYOUT -  
AERIAL IMAGERY

DRAWING NO.	REVISION:
C1A	2



CONTRACTOR TO OBTAIN  
LATEST RFDS FROM VERIZON  
PRIOR TO CONSTRUCTION.

MAINTAIN A MIN. OF 3'-0"  
CLEARANCE BETWEEN  
DISCONNECT BOX AND ANY  
COMM LINES

40" MIN. CLEARANCE  
BELOW NEW TRIPLEX  
SERVICE

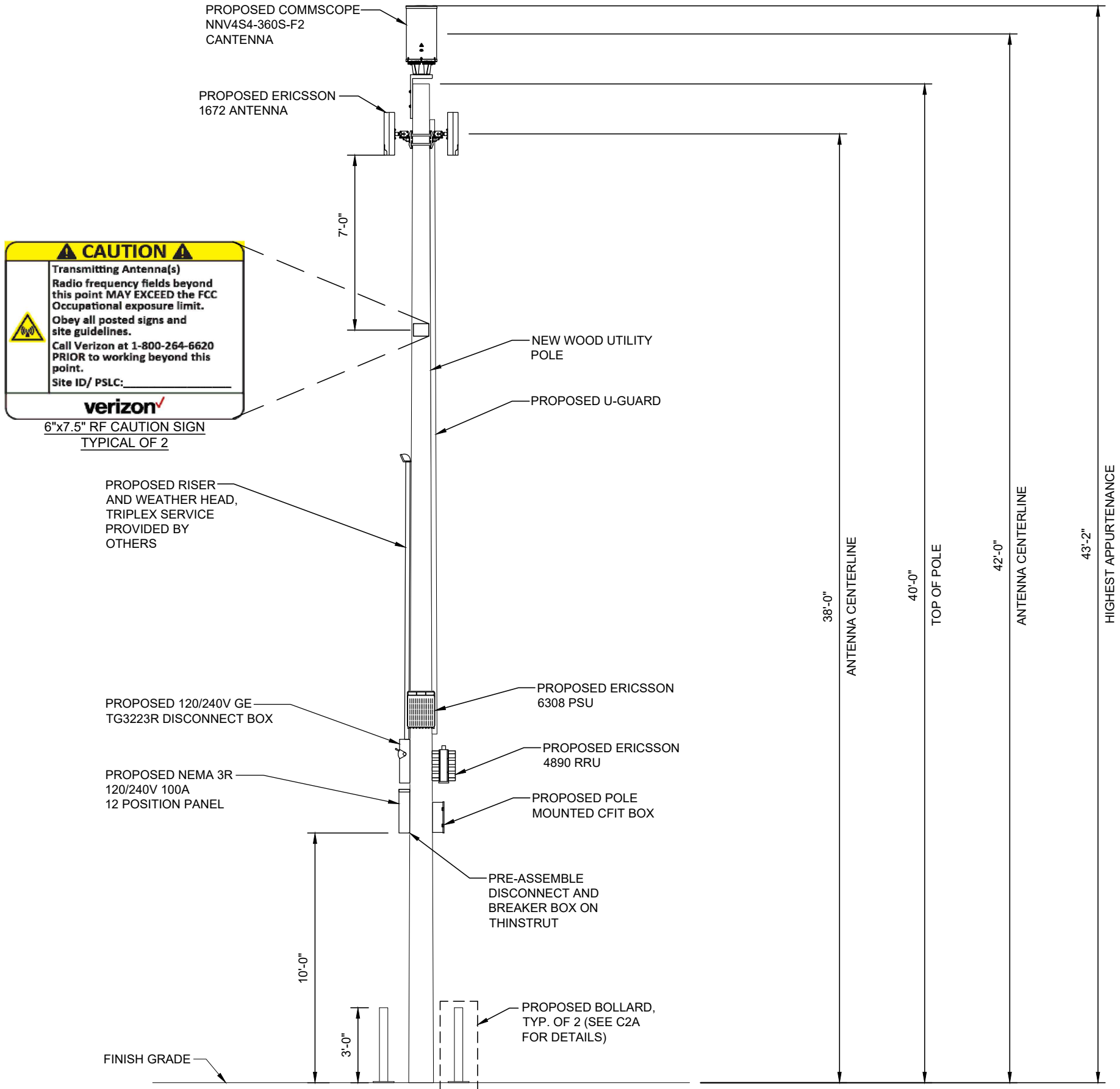
REFER TO RFDS FOR SMALL  
CELL AZIMUTHS



**IN CASE OF EMERGENCY  
CALL 1-800-852-2671**

SITE DESIGNATION: 24265

INSTALL ON BREAKER PANEL



PREPARED FOR:



PREPARED BY:



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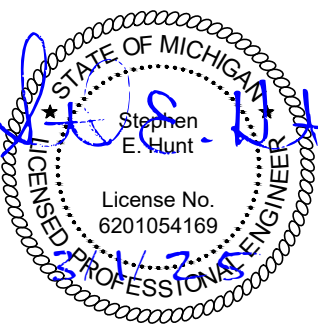
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POLE ELEVATION

DRAWING NO.

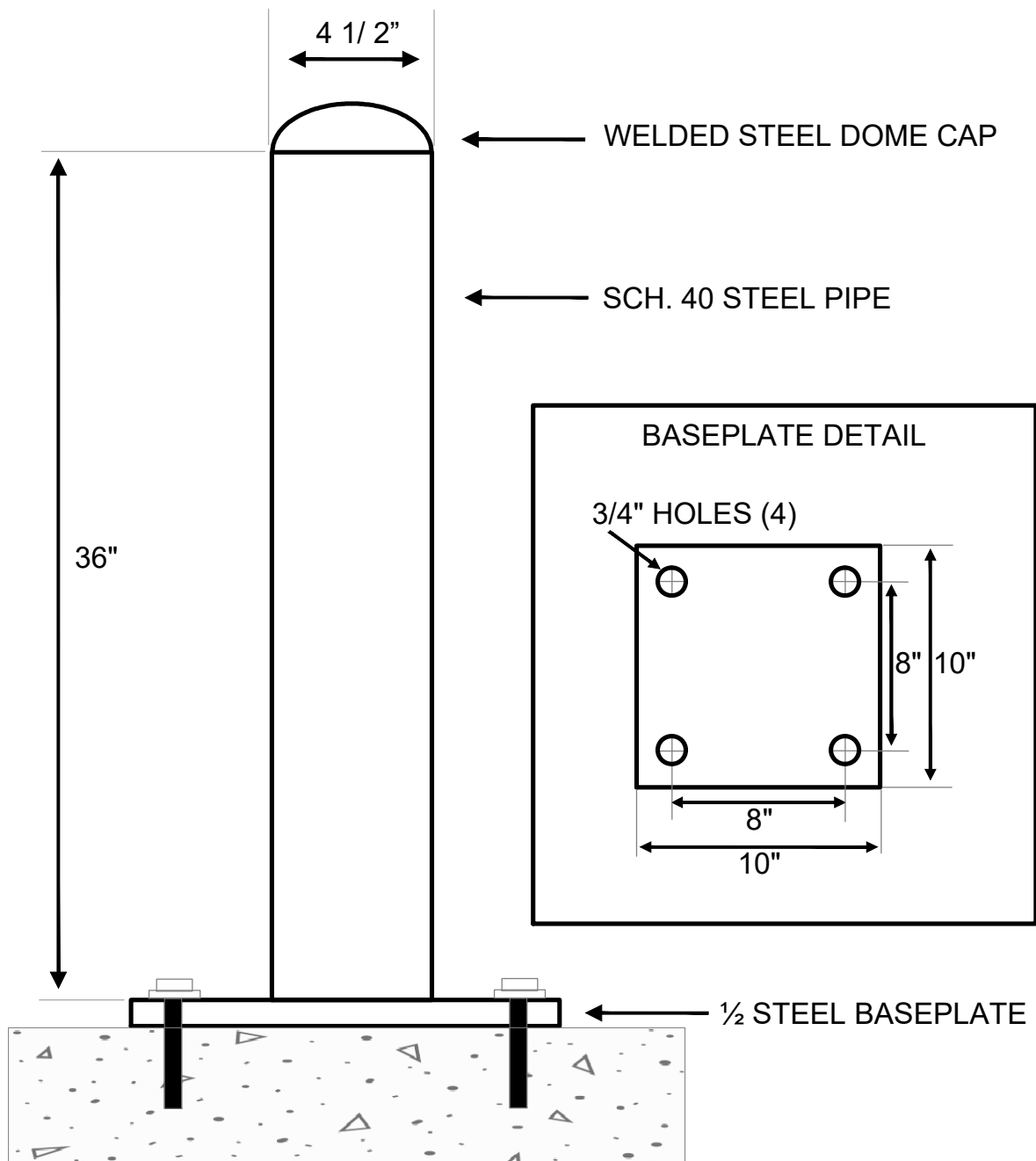
C2

REVISION:


2

N.T.S.

4" Bolt-Down Bollard, 36"Height



ITEM NUMBER: SMB4X36(PP)

 **RECOMMENDED ANCHOR:**  
**CONCRETE WITH 5/8"X6"**  
**WEDGE ANCHOR BOLTS**

PREPARED FOR:



PREPARED BY:

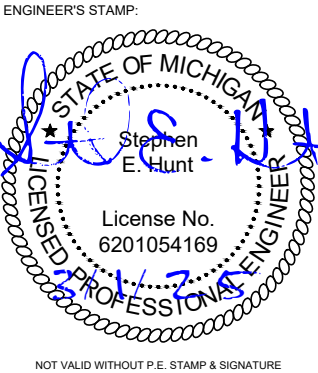


1961 NORTHPOINT BLVD, SUITE 130  
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FAX: 423-843-9509

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1	01/17/25	ZCK	CONSTRUCTION ISSUE
0	12/20/24	JAF	CONSTRUCTION ISSUE
A	11/15/24	JAF	PRELIMINARY REVIEW



SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	BOLLARD DETAIL
--------------	----------------

DRAWING NO.	REVISION:
C2A	2

POLE ATTACHED EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
1672 ANTENNA	0.62
1672 ANTENNA	0.62
1672 ANTENNA	0.62
COMMSCOPE NNV4S4-360S-F2	2.60
TOTAL IN CU-FT	4.46

POLE ANCILLARY EQUIPMENT	
EQUIPMENT	VOLUME (CU-FT)
12 POSITION PANEL	0.80
DISCONNECT	0.57
CFIT BOX	0.60
ERICSSON 4890 RRU	1.07
6308 PSU	0.63
TOTAL IN CU-FT	3.67

PREPARED FOR:



PREPARED BY:



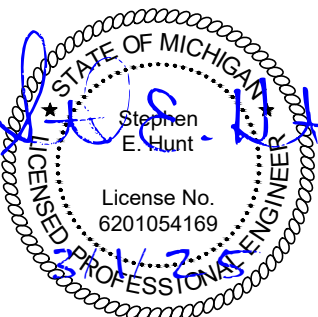
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NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



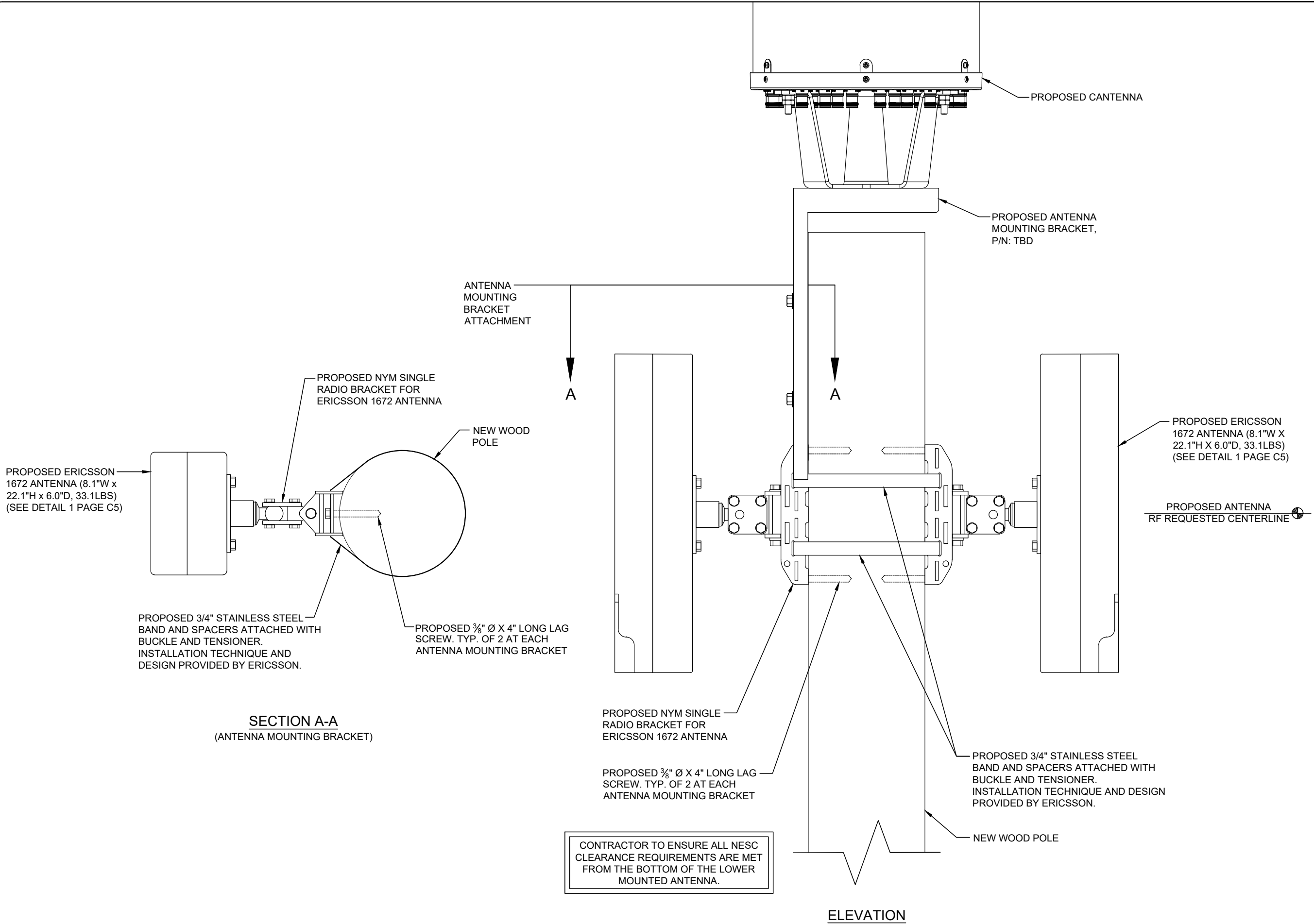
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LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:	
SITE DETAILS	

DRAWING NO.	REVISION:
C3	2





PREPARED FOR:



PREPARED BY:

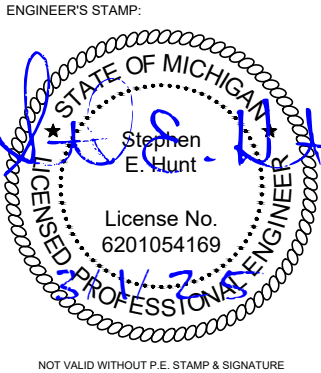


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DESIGN TYPE:	RAWLAND

SHEET TITLE:  
SITE DETAILS

DRAWING NO. C4	REVISION: 2
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## AIR 1672 – AAS Street Product Dual Band - CBRS + B77

TRX Branches	16T16R
Antenna Elements	48
Antenna configuration	(3x1)x(2x4)
Operation band	3550 ~3980 MHz, CBRS+B77
IBW	350 MHz
Occupied BW (TCBW)	Up to 200 MHz with 8/4 DL/UL layers
EIRP	68 dBm in peak on band 37dBm/MHz/layer on CBRS*
Total Output Power (TRP)	80 W
Supported RAT	NR only

Size and Weight:				
AIR 1672 (n48/B77)	Height	Width	Depth	Weight
wo protruding items	In (mm)	In (mm)	In (mm)	~33.1 lbs (~15 Kg)
w protruding items	22.1 In (560 mm)	8.1 In (204 mm)	6.0 In (150 mm)	

eCPRI link	2*25G
Operating temperature	40 to +55°C, with natural convection cooling
Power Supply	AC
Power Consumption @full load	Tentative 460W (100% traffic, 75% DL & 25% UL TDD)
Ext.alarm support	NA

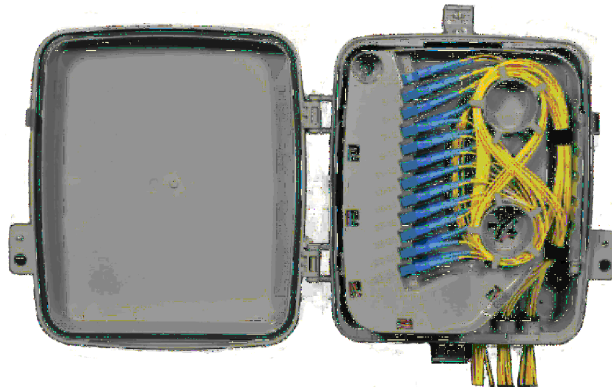
| 2023-01-09 | Commercial In Confidence | Page 53

Now confirmed  
max measurements/ will not exceed

\*Per the current FCC rules. The 80W Rf Power can be shared between both bands according to FCC rules.

## CFIT BOX

PART CODE: CFIT-C48D4LHXVZ  
DESIGNED BY CHARLES INDUSTRIES



### PRODUCT SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
HEIGHT (PANEL ONLY)	15 in.
DEPTH, BASE (FRONT TO BACK)	5.5 in.
WIDTH	12 in.
WEIGHT	4 lbs.
CONSTRUCTION	RUGGED UL94-5VA GRAY POLYCARBONATE
SUPPORTED FIBER CONNECTOR TYPES	SC, LC or MPO
COMPLIANCE	DESIGNED TO MEET GR-950, GR2898, NEMA 4, IP66
SPLICING CAPACITY	UP TO THREE (3) 4"x6" HINGED SPLICE TRAYS ON FEED FIBER SIDE.
BULKHEAD CAPACITY	24 SC ADAPTERS

PREPARED FOR:

**verizon**

PREPARED BY:

**TeleCAD**  
Wireless

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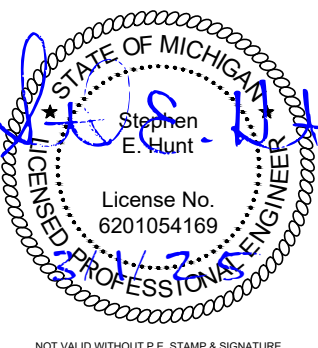
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DESIGN TYPE:	RAWLAND

SHEET TITLE:  
**EQUIPMENT DETAILS**

DRAWING NO.	REVISION:
C5	2

1 ERICSSON 1672 ANTENNA

N.T.S.

2 C-FIT

N.T.S.

## Radio 4890HP 48B2 48B66 S

- 8 RF ports, 4T8R per band (S for TX)
- B2: 4x60W, B66: 4x60W
- Up to 480W in total RF power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

Radio 4890HP 48B2 48B66 S	Height	Width	Depth	Weight
wo protruding items	17.5 In (444 mm)	15.2 In (384 mm)	7.0 In (176 mm)	~69.5 lbs (~31.5 Kg)
w protruding items	20.6 In (522 mm)	15.7 In (397 mm)	7.2 In (182 mm)	

- 48 VDC 2-wire (single DC-connector),
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
  - Optional fan for increased site flexibility
- Power consumption with 100% Load @ 25C
  - Output Power 480W: 1370W
  - Output Power 320W: 970W
- IP 65, -40 to +55°C

| 2023-03-29 | Commercial In Confidence | Page 1

Pending Commercial Agreements



B2/B25 TX: 4 ports  
B66 TX: 4 ports  
B2/B25 & B66 RX: 8 ports

Same order as Radio 8843

Now confirmed  
max measurements/ will not exceed

### 3.1 Technical Data Summary

Figure 1 shows the dimensions of the unit, and Table 1 gives a summary of the technical data.

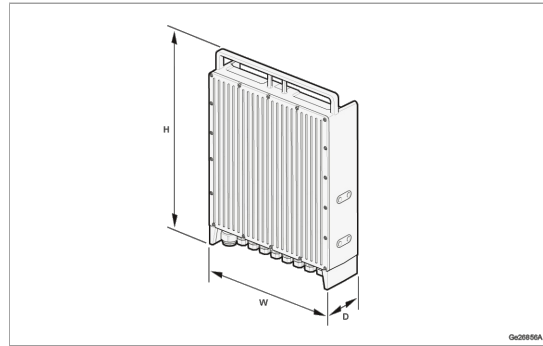


Figure 1 Unit Dimensions

Table 1 Technical Data

Description	Value
Power input	100–127 V AC or 200–240 V AC (Line-Neutral or Line-Line) <sup>(1)</sup>
Total power output at 100–127 V AC	3500 W peak 3000 W average <sup>(2)</sup>
Total power output at 200–240 V AC	6000 W
Maximum current on one output port	50 A
Maximum power on one output port	2000 W
Dimensions	Value
Height	477 mm
Width	343 mm
Depth	110 mm
Weight	Value
Power 6308	14 kg
Color	Value
Gray	NCS S 1002-B

(1) When connecting Line-Line, the N/L connector pin is not allowed to be connected to the High Leg Delta.

(2) The total output power is divided across seven output ports.

3 ERICSSON 4890 RRU

N.T.S.

4 ERICSSON 6308 PSU

N.T.S.



NNV4S4-360S-F2



20-port small cell antenna, 4x 698-896, 8x 1695–2690, 8x 3300-4200, 360° Horizontal Beamwidth, fixed tilt.

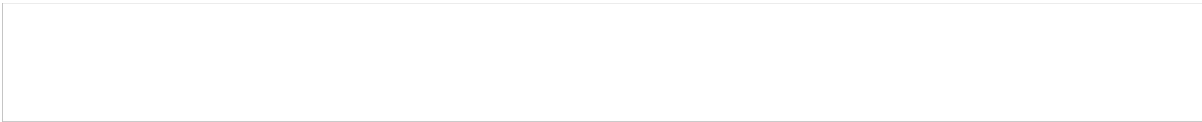
General Specifications

Antenna Type	Omni
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA
Radiator Material	Aluminum   Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

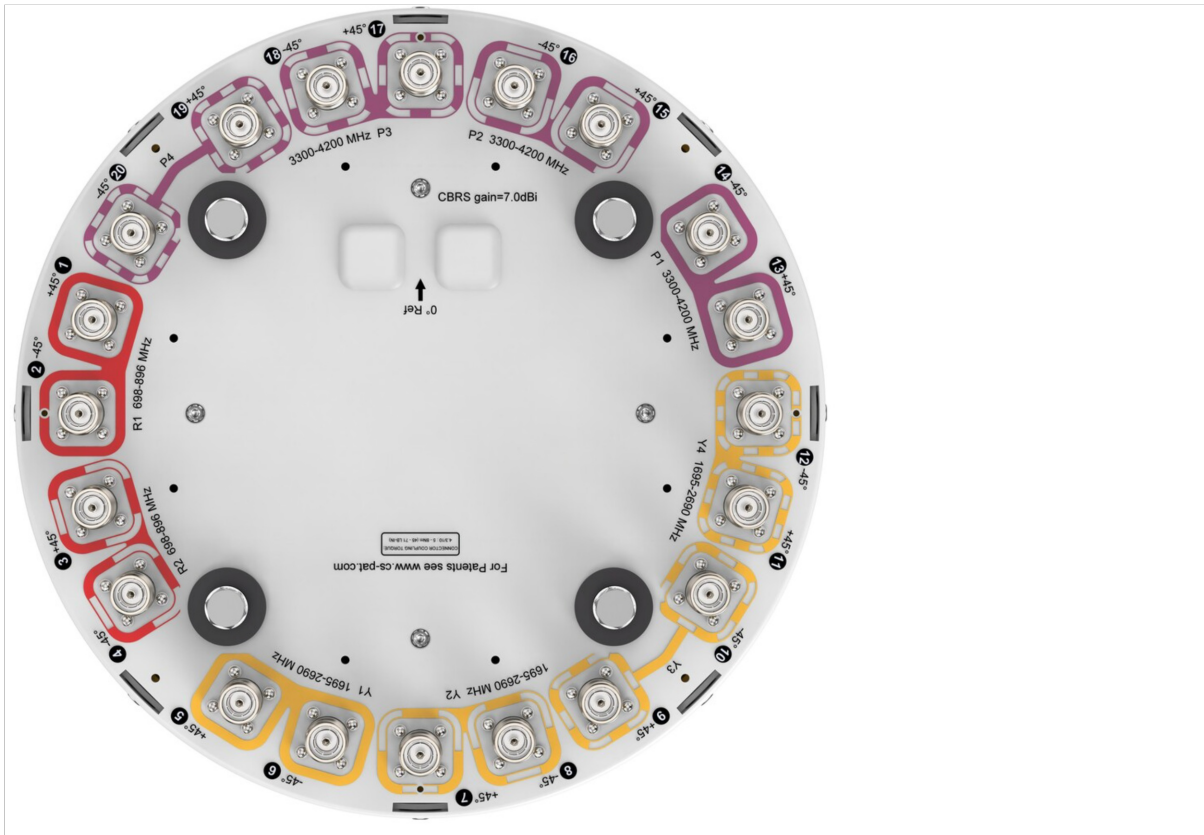
Dimensions

Length	610 mm   24.016 in
Net Weight, antenna only	14.6 kg   32.187 lb
Outer Diameter	370 mm   14.567 in

Port Configuration



NNV4S4-360S-F2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   3300 – 4200 MHz   698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2360	2360–2690	3300–3550	3550–3700	3700–4200
RF Port	1~4	1~4	5~12	5~12	5~12	5~12	13~20	13~20	13~20
Gain, dBi	4.9	5.2	7.4	8.3	8.7	8.9	6.3	6.3	6.2
Beamwidth, Horizontal,	360	360	360	360	360	360	360	360	360

PREPARED FOR:



PREPARED BY:



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ENGINEER'S STAMP:

STATE OF MICHIGAN

Stephen E. Hunt

License No. 6201054169

PROFESSIONAL ENGINEER

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SITE NAME:	24265
ADDRESS:	5207 TIREMAN AVE DETROIT, MI 48204
COUNTY:	WAYNE
LATITUDE:	42° 21' 7.164" N
LONGITUDE:	83° 7' 16.824" W
DESIGN TYPE:	RAWLAND

SHEET TITLE:  
EQUIPMENT DETAILS

DRAWING NO.	REVISION:
C6	2

ELECTRICAL NOTES:

- 1. PROVIDE AND INSTALL WARNING TAPE FOR ELECTRIC SERVICE CONDUIT 18" ABOVE CONDUITS.
- 2. CONTRACTOR TO PAY FOR THE SERVICE AS DIRECTED BY THE MUNICIPALITY.
- 3. CONTRACTOR TO USE PVC SCH 80 CONDUIT WHERE CONDUITS CROSS ACCESS ROADS.
- 4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC COMPANY FOR SERVICES.
- 5. CONTRACTOR TO PAY ALL FEES FOR SERVICES REQUIRED.
- 6. CONTRACTOR TO BE ADVISED THAT EXISTING UNDERGROUND CONDUITS, GROUND CABLES EXIST. DIG WITH CAUTION.
- 7. CONTRACTOR TO VERIFY POWER AND TELCO LB LOCATIONS AND FLEX CONDUIT SIZE AND ROUTING TO THE EQUIPMENT WITH MANUFACTURER'S DRAWINGS.
- 8. CONSTRUCTION UNDER EXISTING PAVEMENTS WILL BE REQUIRED TO BE INSTALLED WITH DIRECTIONAL BORING TECHNIQUE. NO OPEN CUT CONSTRUCTION THROUGH EXISTING PAVEMENT, I.E. ROADWAYS, PARKING AREAS, SIDEWALKS WILL BE ALLOWED.

UTILITY NOTES:

- 1. ALL POWER CONDUITS ABOVE GRADE, SWEEPS, & ELBOWS TO BE PVC SCH 40.

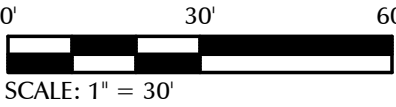
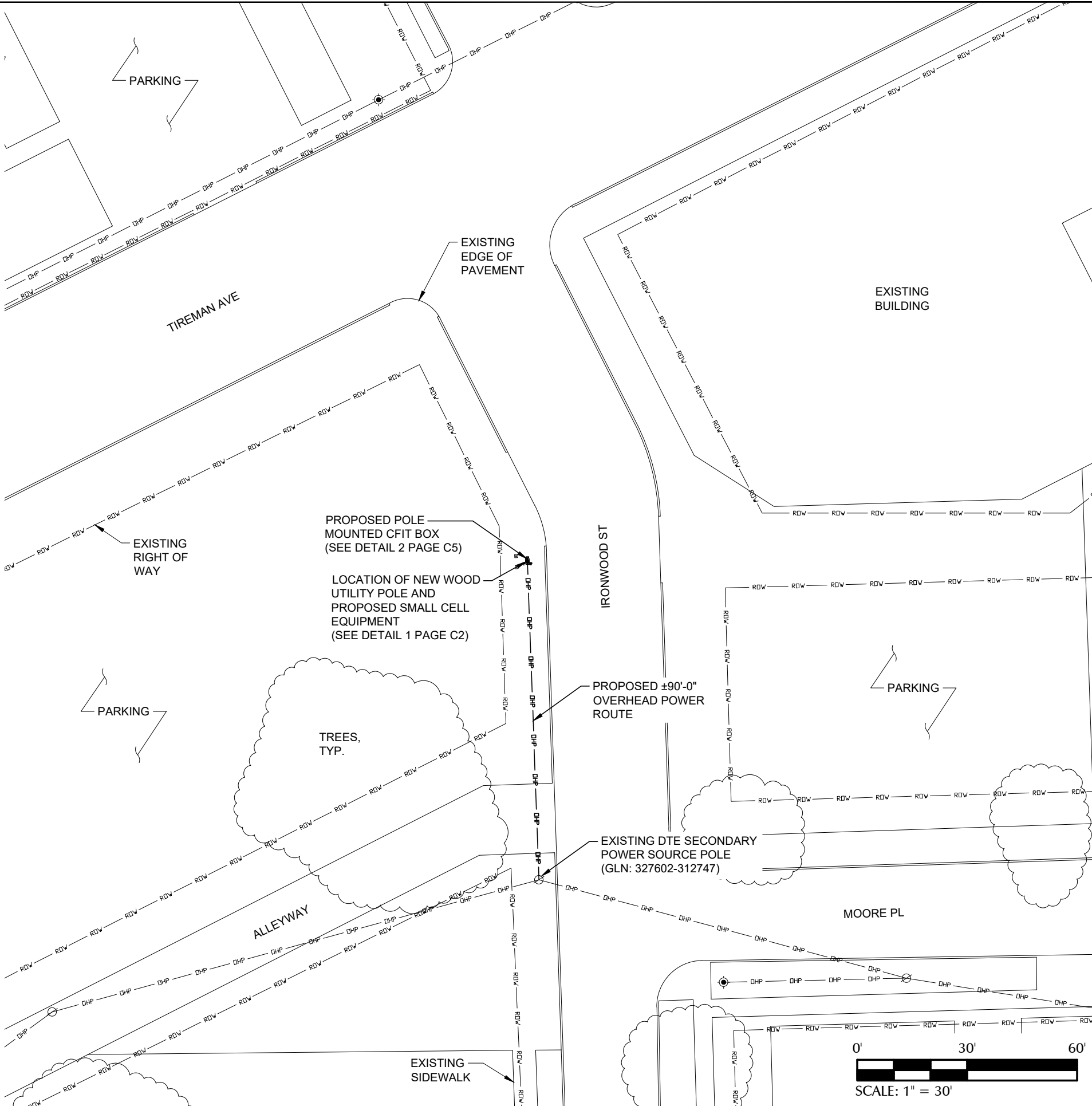
STANDARD POWER SUPPLY FOR THE SMALL CELL NODES IS A 100 AMP 120/208 OR 240 VOLT SINGLE PHASE SERVICE

WIRE SIZE	ALUMINUM		COPPER		CONDUIT SIZE
	208V	240V	208V	240V	
3 AWG	85'	100'	130'	155'	1 1/4" MIN
2 AWG	105'	120'	170'	200'	1 1/4" MIN
1 AWG	130'	150'	210'	240'	1 1/2" MIN
1/0 AWG	150'	170'	240'	280'	1 1/2" MIN
2/0 AWG	190'	220'	290'	330'	1 1/2" MIN
3/0 AWG	230'	265'	355'	410'	2" MIN
4/0 AWG	265'	310'	425'	490'	2" MIN
250 KCMIL	315'	365'	480'	555'	2 1/2" MIN
300 KCMIL	360'	415'	540'	625'	2 1/2" MIN
350 KCMIL	405'	470'	605'	700'	2 1/2" MIN
400 KCMIL	440'	510'	660'	760'	3" MIN
500 KCMIL	520'	600'	755'	870'	3" MIN



LEGEND

OVERHEAD UTILITIES	— DHU —	CATCH BASIN	▢
UNDERGROUND POWER	— UGP —	STREET SIGN	—
OVERHEAD POWER	— DHP — DHP —	4 WAY STREET SIGN	+
UNDERGROUND TELCO	— UGT —	UTILITY POLE	⊗
OVERHEAD TELCO	— DHT —	LIGHT POLE	⊙
GAS LINE	— GAS — GAS —	WATER VALVE	⋈
FENCE	— x — x — x — x —	MANHOLE	(M)
WOOD FENCE	— o — o — o — o —	GAS VALVE	⋈
SEWER LINE	— SWR — SWR —	FIRE HYDRANT	⊙
WATER LINE	— WTR —	TELCO PEDESTAL	T
HYBRID CABLE	— HYB —	ELECTRICAL BOX	E
HIGH VOLTAGE POWER	— HVP —		
FIBER	— FBR —		
RIGHT-OF-WAY	— RDW — RDW —		
PROPERTY LINE	— PL — PL —		



PREPARED FOR:



PREPARED BY:

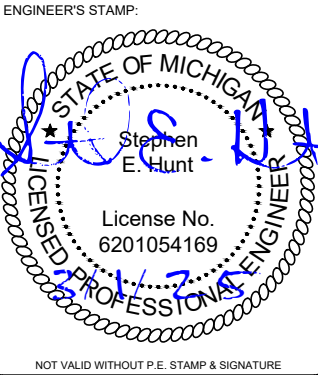


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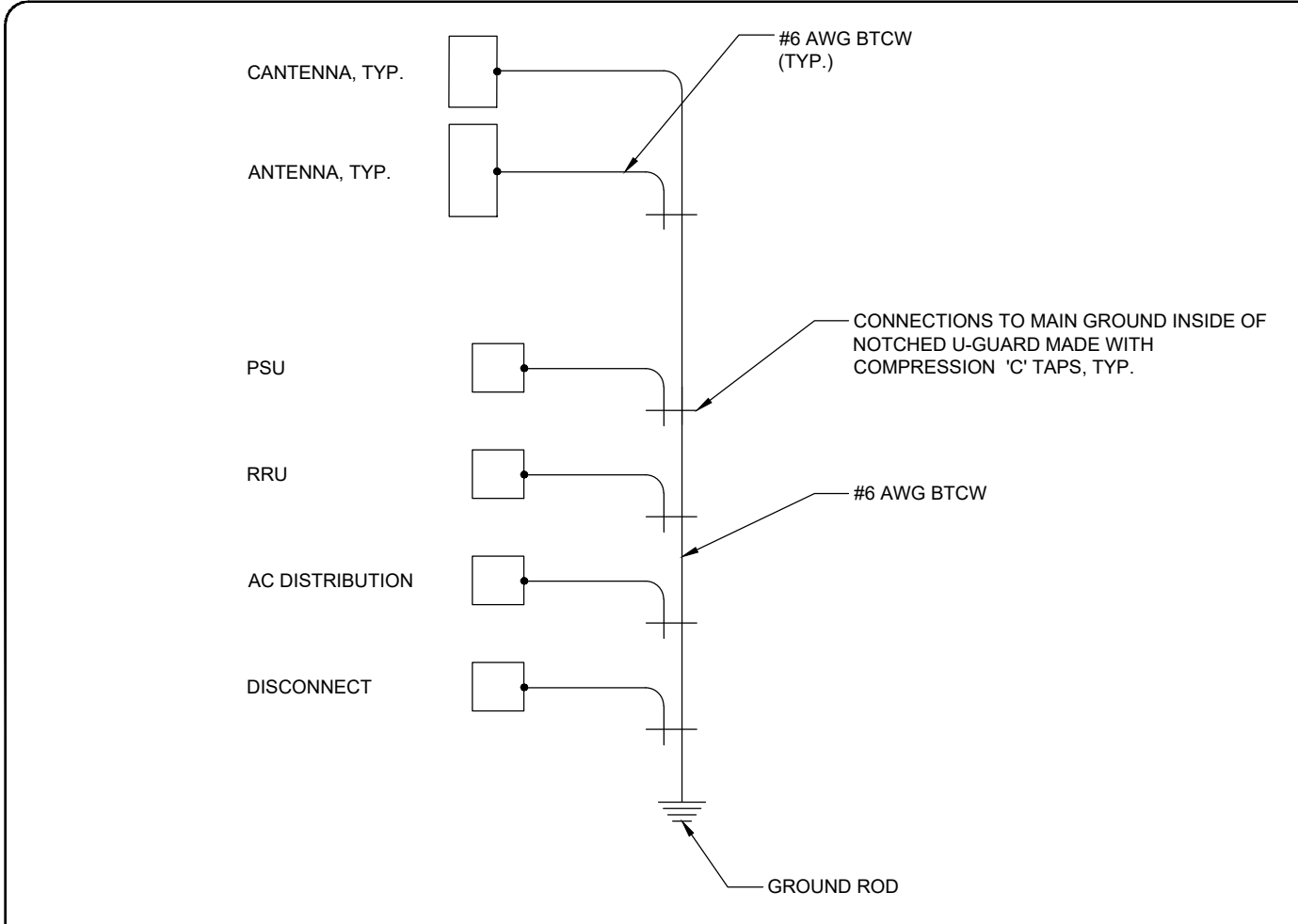
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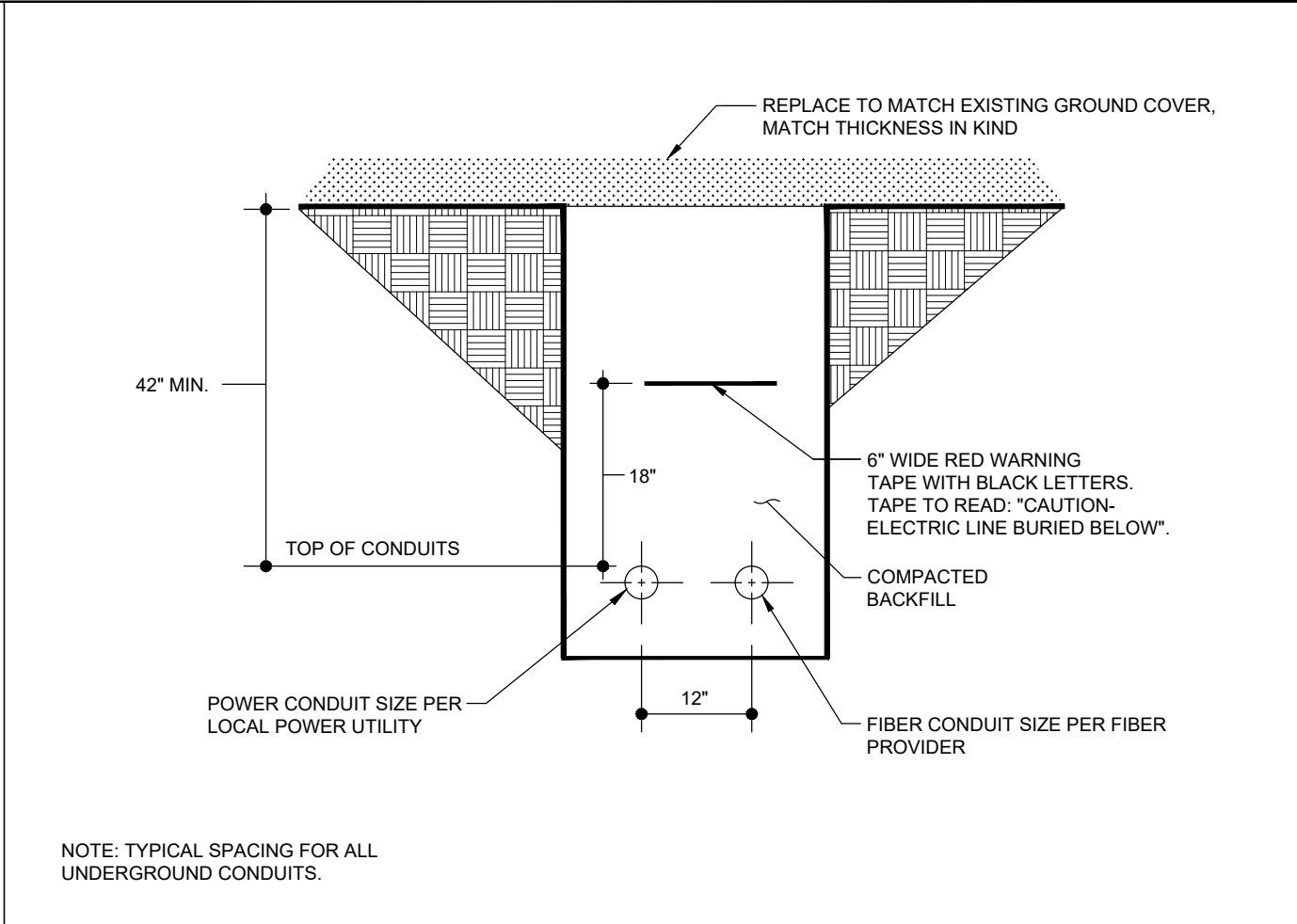
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DRAWING NO. E1	REVISION: 2





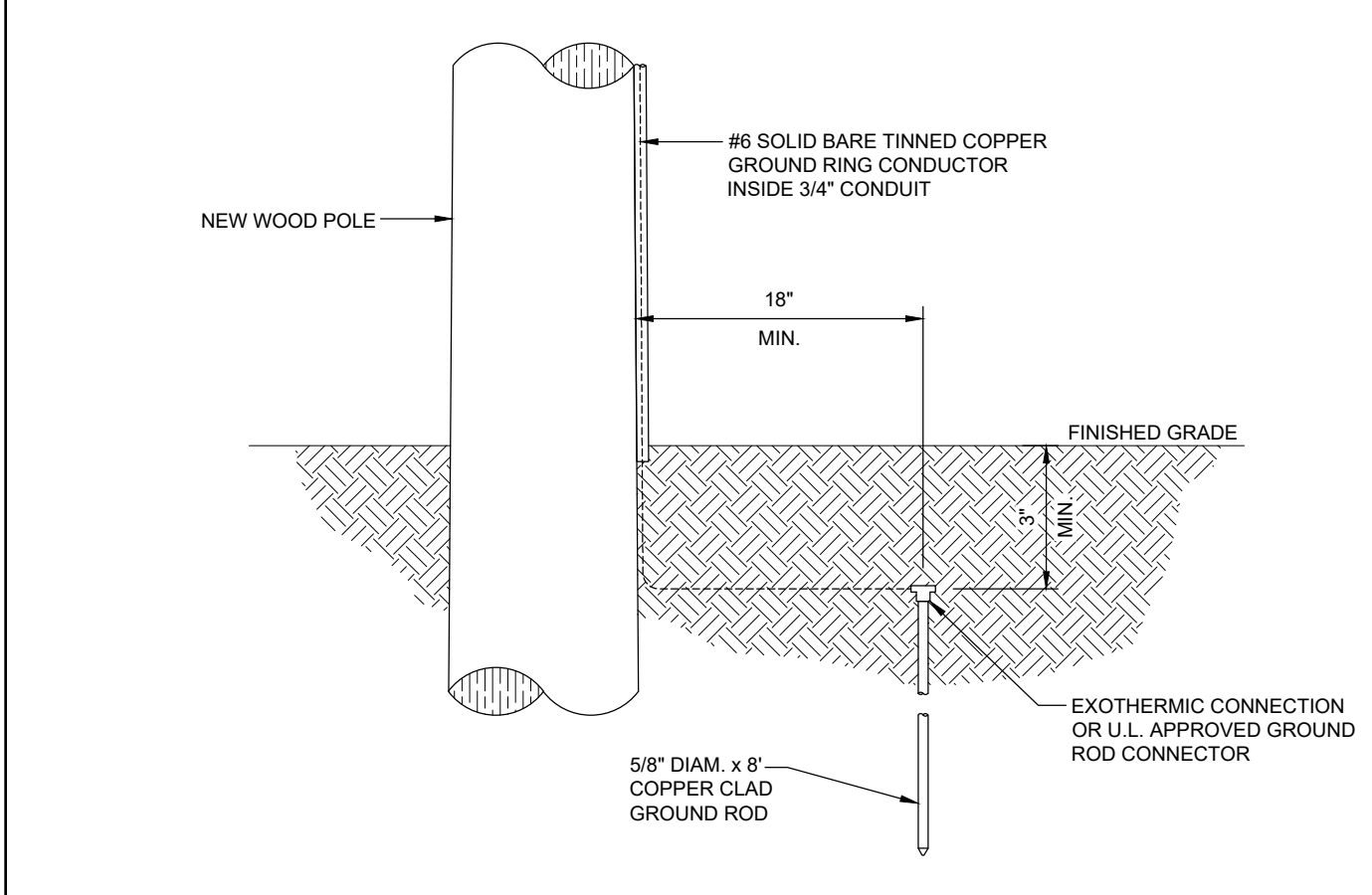
1 SINGLE POINT RADIAL GROUND DETAIL

N.T.S.



2 TRENCH DETAIL (IF REQUIRED)

N.T.S.



3 GROUND ROD DETAIL

N.T.S.



4 DETAIL NOT IN USE

PREPARED FOR:

**verizon**

PREPARED BY:

**TeleCAD Wireless**

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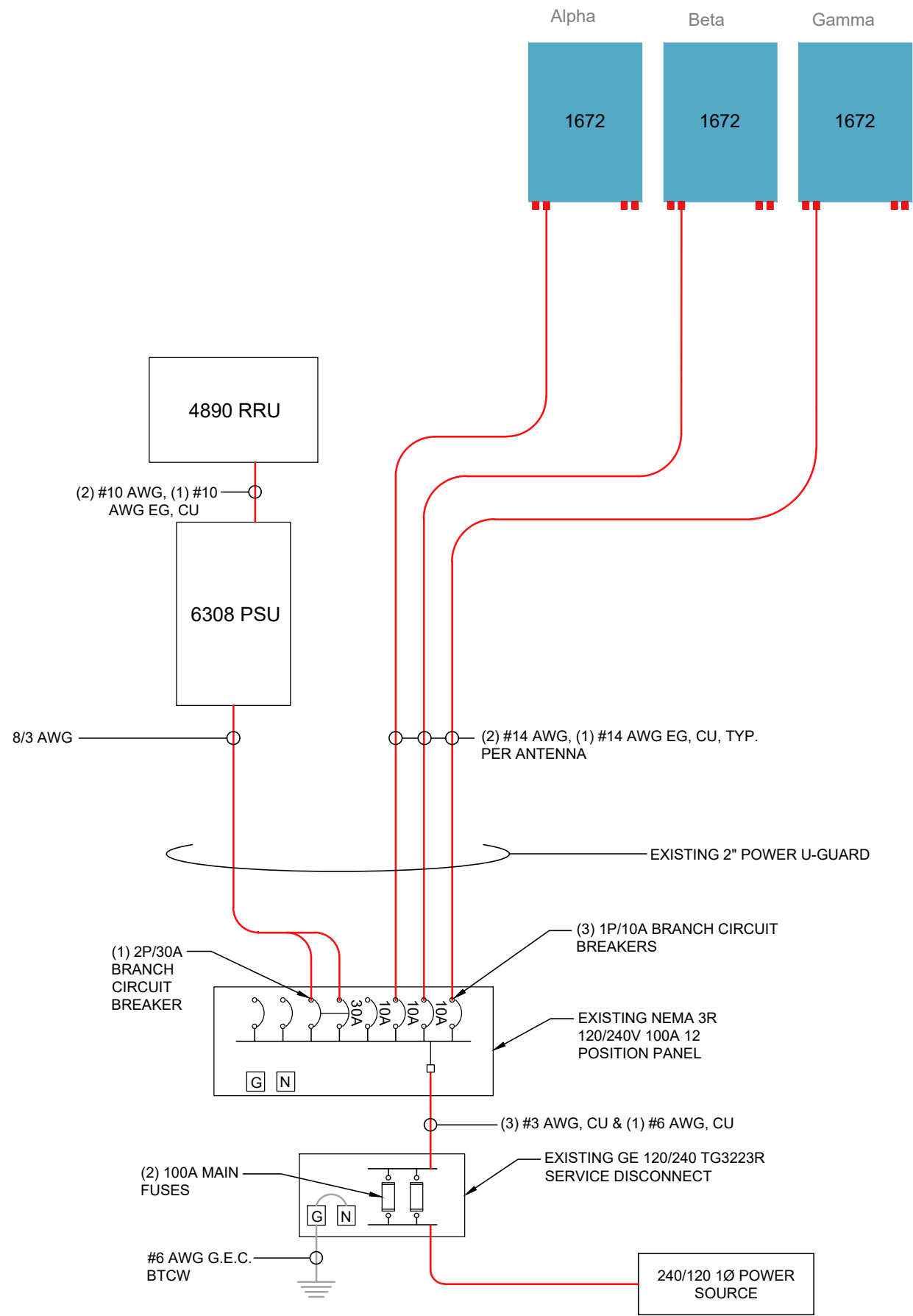
LATITUDE: 42° 21' 7.164" N

LONGITUDE: 83° 7' 16.824" W

DESIGN TYPE: RAWLAND

SHEET TITLE: ELECTRICAL DETAILS

DRAWING NO.	REVISION:
E2	2



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PREPARED BY:

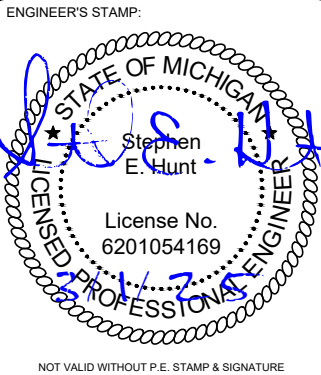


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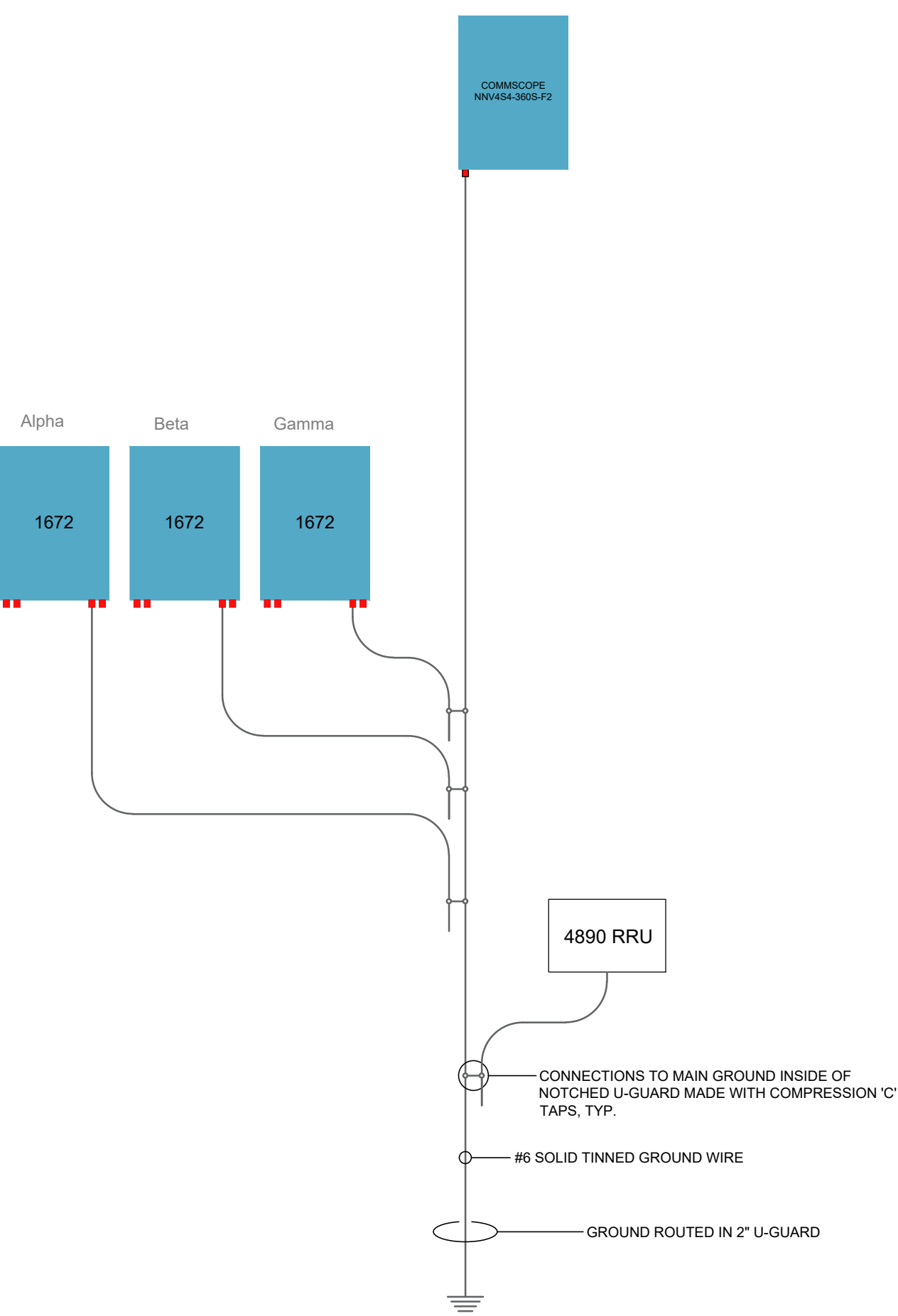
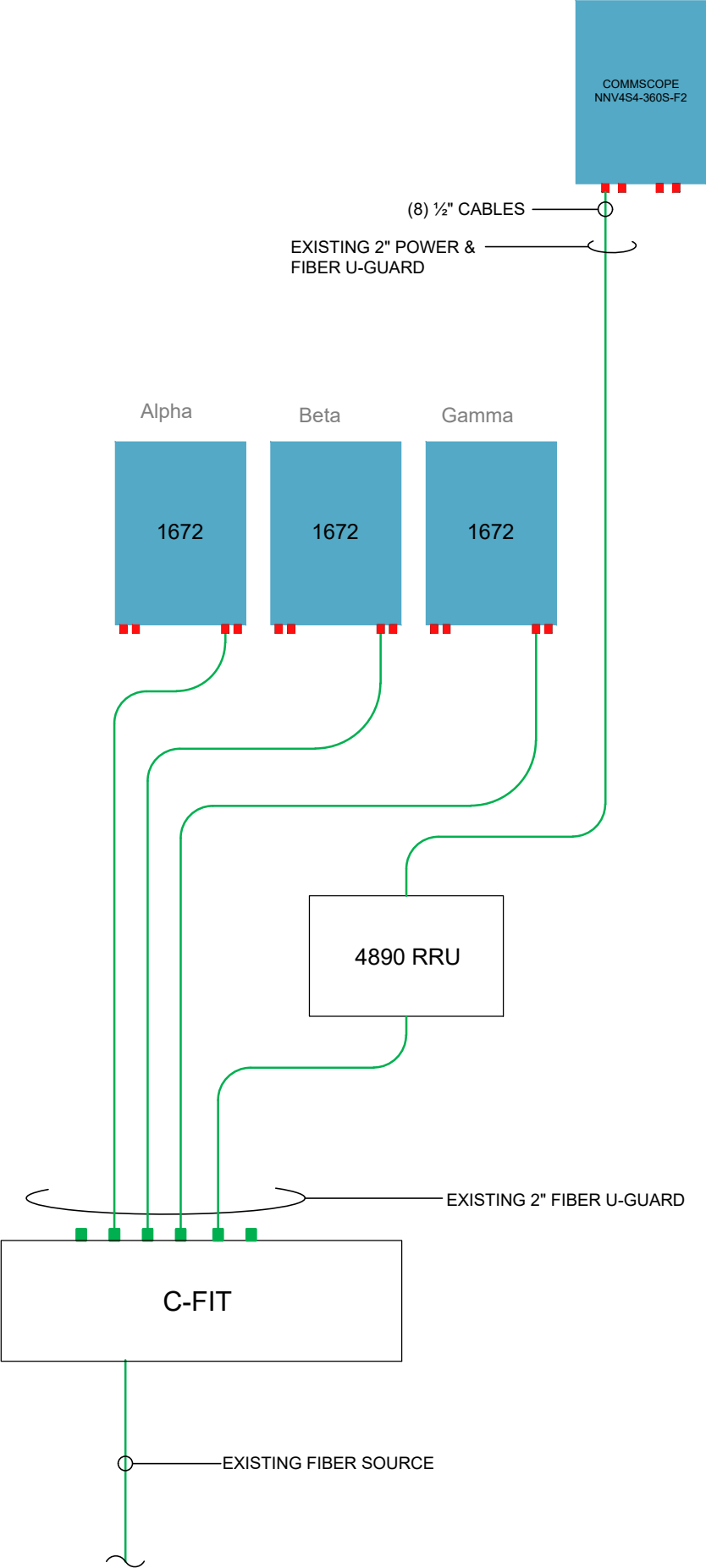


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DESIGN TYPE: RAWLAND

SHEET TITLE:  
SINGLE LINE DIAGRAM

DRAWING NO. E3  
REVISION: 2





PREPARED FOR:



PREPARED BY:



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SHEET TITLE:  
SINGLE LINE DIAGRAM

DRAWING NO. <b>E3A</b>	REVISION: <b>2</b>
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