



T-MOBILE NORTHEAST LLC

SITE NUMBER: 7WAS088A

SITE NAME: WSSC-GREENBELT

T-MOBILE RELO PROJECT, DESIGN 67E5D998E 6160

211 RIDGE RD  
GREENBELT, MD 20770  
PRINCE GEORGE'S COUNTY



MARYLAND LAW REQUIRES  
THREE WORKING DAYS NOTICE PRIOR TO  
ANY EARTH MOVING ACTIVITIES

NOTE TO GENERAL CONTRACTOR:  
REFER TO THE PASSING STRUCTURAL ANALYSIS AND  
APPLICABLE MOUNT ANALYSIS OF THE PROPOSED TEMPORARY  
MONOPOLE CONSIDERING THE EXISTING AND PROPOSED  
LOADS PERFORMED BY NB+C ES (PROJECT 100249). IF ANY  
DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL  
IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

T-Mobile  
T-MOBILE NORTHEAST LLC  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610

**NB+C**  
NB+C ENGINEERING SERVICES, LLC.  
6095 MARSHALEE DRIVE, SUITE 300  
ELKRIDGE, MD 21075  
(410) 712-7092

DPIE APPROVAL STAMP BLOCK

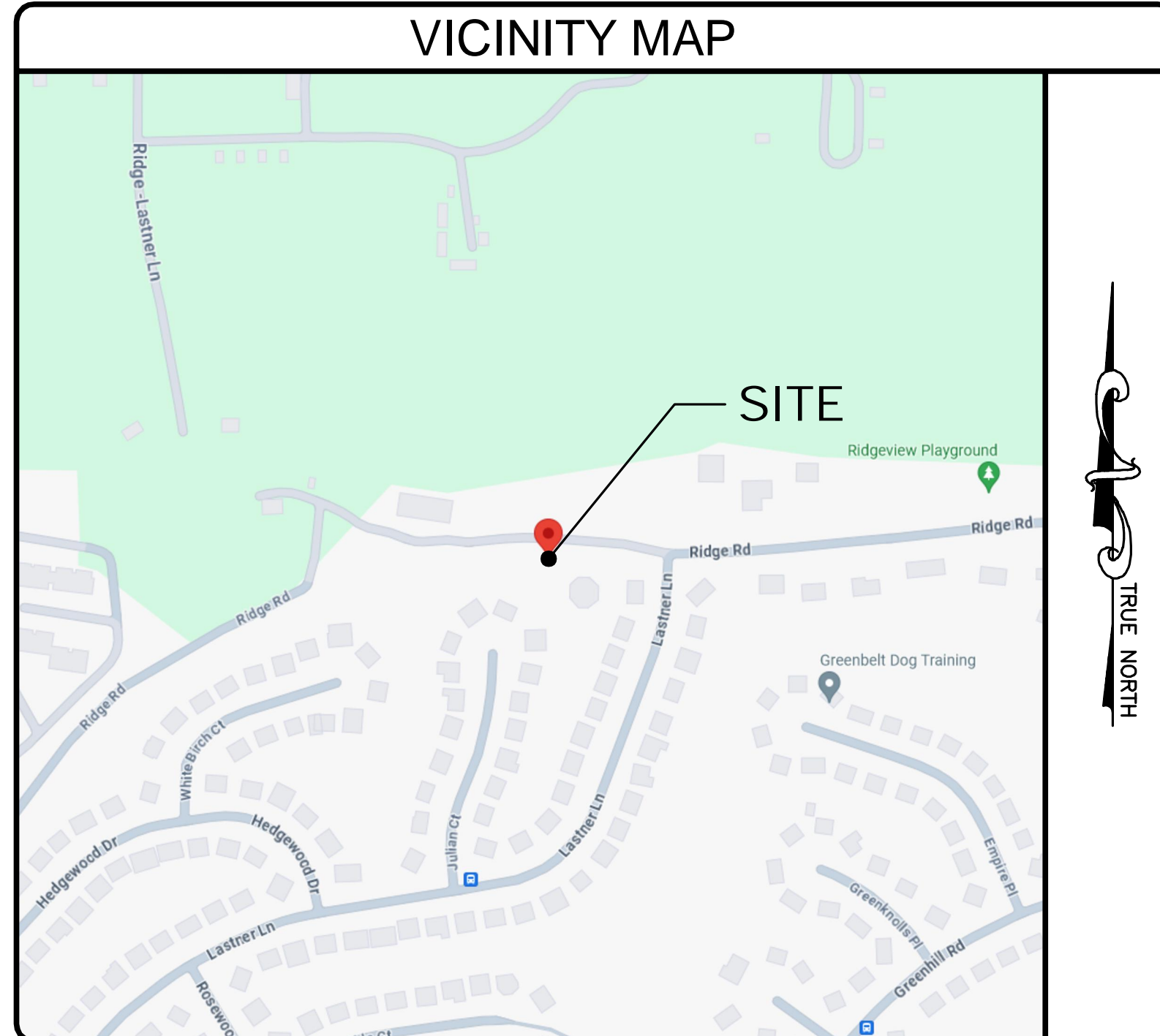
**SCOPE OF WORK**

PROJECT CONSISTS OF:

RELOCATING: (9) EXISTING ANTENNAS  
(6) EXISTING RADIOS

INSTALLING: (1) PROPOSED ANTENNA PLATFORM  
(12) PROPOSED MOUNT PIPES  
(3) PROPOSED 6X24 HYBRID CABLES  
(1) PROPOSED TEMPORARY MONOPOLE  
(1) PROPOSED TEMPORARY FENCE  
(1) PROPOSED RETAINING WALL  
\*PROPOSED DURA-BLOCKS

**VICINITY MAP**



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**SITE INFORMATION**

LATITUDE (NAD 83): 39.011100°  
LONGITUDE (NAD 83): -76.884700°  
JURISDICTION: PRINCE GEORGE'S COUNTY  
ZONING: R55  
TAX ACCOUNT NUMBER: 21-5532354  
PARCEL AREA: 0.40± ACRES  
PARCEL OWNER: CITY OF GREENBELT  
ADDRESS: 25 CREST RD  
GREENBELT, MD 20770  
GROUND ELEVATION: 244.00' (AMSL)  
STRUCTURE TYPE: TEMPORARY MONOPOLE  
STRUCTURE HEIGHT: 110'-0" (AGL)

**CODE COMPLIANCE**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 NATIONAL STANDARD PLUMBING CODE
- 2018 NFPA 101, LIFE SAFETY CODE
- 2018 IFC
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 15TH EDITION
- ANSI/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

**DO NOT SCALE DRAWINGS**

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

**PROJECT TEAM**

APPLICANT: T-MOBILE NORTHEAST LLC  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610  
PROJECT MANAGEMENT FIRM: NETWORK BUILDING + CONSULTING, LLC.  
6095 MARSHALEE DRIVE, SUITE 300  
ELKRIDGE, MD 21075  
(410) 712-7092  
ENGINEERING FIRM: NB+C ENGINEERING SERVICES, LLC.  
6095 MARSHALEE DRIVE, SUITE 300  
ELKRIDGE, MD 21075  
(410) 712-7092

APPLICANT

ENGINEER

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

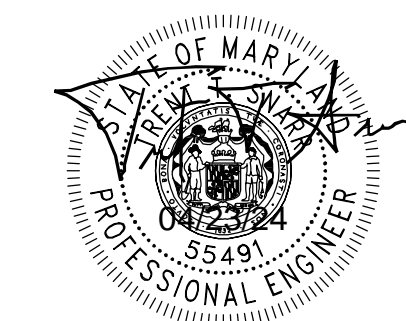
SHEET TITLE

SHEET NUMBER

7WAS088A  
WSSC-GREENBELT  
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PRINCE GEORGE'S COUNTY

**REVISIONS**

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	PGC



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 55491, EXPIRATION DATE 01/08/2026

TRENT TRAVIS SNARR, P.E.  
MARYLAND PROFESSIONAL ENGINEER  
LICENSE #55491

TITLE SHEET

T-1



ELECTRICAL & GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC); DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN-2, OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH T-MOBILE CELL SITE GROUNDING STANDARDS.
- GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75°C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

STRUCTURAL NOTES

- THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANCHOR BOLT LOCATIONS, ELEVATION OF TOP OF CONCRETE AND BEARING PLATES, ALIGNMENT ETC. PRIOR TO START OF STEEL ERECTION.
- THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:
  - A. AISC - "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
  - B. AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
  - C. AWS - "D1.1 STRUCTURAL WELDING CODE - STEEL".
- MATERIAL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS
 

STRUCTURAL WIDE FLANGE & M SHAPES	A992 OR A572
	FY = 50KSI
OTHER STRUCTURAL SHAPES AND PLATES	A36
	FY = 36 KSI
STRUCTURAL TUBING	A500, GRADE B
	FY = 46 KSI
HIGH STRENGTH BOLTS	A325
THREADED RODS	A354, GRADE BC
ANCHOR BOLTS	A325 OR A354 BC
PIPE (HANDRAIL)	SCH 40 PIPE
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.
- HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED. ALL HOLES IN BEARING PLATES SHALL BE DRILLED.
- ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL BOLTS SHALL BE TIGHTENED USING TURN-OFF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.

APPLICANT	<p>T-MOBILE NORTHEAST LLC</p> <p>12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	<p><b>DPIC APPROVAL STAMP BLOCK</b></p>								
ENGINEER	<p>NB+C ENGINEERING SERVICES, LLC.</p> <p><small>6056 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092</small></p>									
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ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>									
SHEET TITLE	<p><b>GENERAL NOTES</b></p>									
SHEET NUMBER	<p><b>GN-1</b></p>									

PIPE

NFPA 58 PROVIDES A LIST OF PIPE AND TUBING MATERIALS AND FITTINGS THAT CAN BE USED IN PROPANE SYSTEMS. BE SURE TO CHECK THE LATEST EDITION OF NFPA 58 REFERENCED IN 49 CFR PART 192 FOR ANY MATERIALS THAT MAY HAVE BEEN ADDED OR DELETED.

PIPE MEETING THE FOLLOWING SPECIFICATIONS CAN BE USED:

WROUGHT-IRON PIPE	ANSI B36.10M, <u>WELDED AND SEAMLESS WROUGHT STEEL PIPE.</u>
STEEL PIPE	ASTM A53, <u>SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED WELDED AND SEAMLESS.</u>
STEEL PIPE	ASTM A106, <u>SPECIFICATION FOR SEAMLESS CARBON STEEL PIPE FOR HIGH-TEMPERATURE SERVICE.</u>
BRASS PIPE	ASTM B43, <u>SPECIFICATION FOR SEAMLESS RED BRASS PIPE, STANDARD SIZES.</u>
COPPER PIPE	ASTM B42, <u>SPECIFICATION FOR SEAMLESS COPPER PIPE, STANDARD SIZES.</u>
POLYETHYLENE PIPE	ASTM D2513, <u>SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING AND FITTINGS.</u>

NOTE THAT PIPE MUST BE RECOMMENDED BY THE MANUFACTURER FOR USE WITH LP GAS. POLYETHYLENE PIPE MUST BE MARKED IN COMPLIANCE WITH THE PRODUCT MARKING REQUIREMENTS OF ASTM D2513, AND MUST INCLUDE:

- THE MANUFACTURER'S NAME OR TRADEMARK,
- THE STANDARD DIMENSIONAL RATIO (SDR) OF THE PIPE,
- THE SIZE OF THE PIPE, THE DESIGNATION POLYETHYLENE (PE),
- THE DATE MANUFACTURED AND THE DESIGNATION ASTM D2513.

TUBING

TUBING MEETING THE FOLLOWING SPECIFICATIONS CAN BE USED:

STEEL TUBING	ASTM A539, <u>SPECIFICATION FOR ELECTRIC-RESISTANCE-WELDED COILED STEEL TUBING FOR GAS FUEL OIL LINES.</u>
BRASS TUBING	ASTM B135, <u>SPECIFICATION FOR SEAMLESS BRASS TUBE.</u>
COPPER TUBING	ASTM B88, <u>TYPE K OR L, SPECIFICATION FOR SEAMLESS COPPER WATER TUBE.</u> ASTM B280, <u>SPECIFICATION FOR SEAMLESS COPPER TUBE FOR AIR CONDITIONING AND REFRIGERATION FIELD SERVICE.</u>
POLYETHYLENE TUBING	ASTM D2513, <u>SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING AND FITTINGS.</u>

FITTINGS

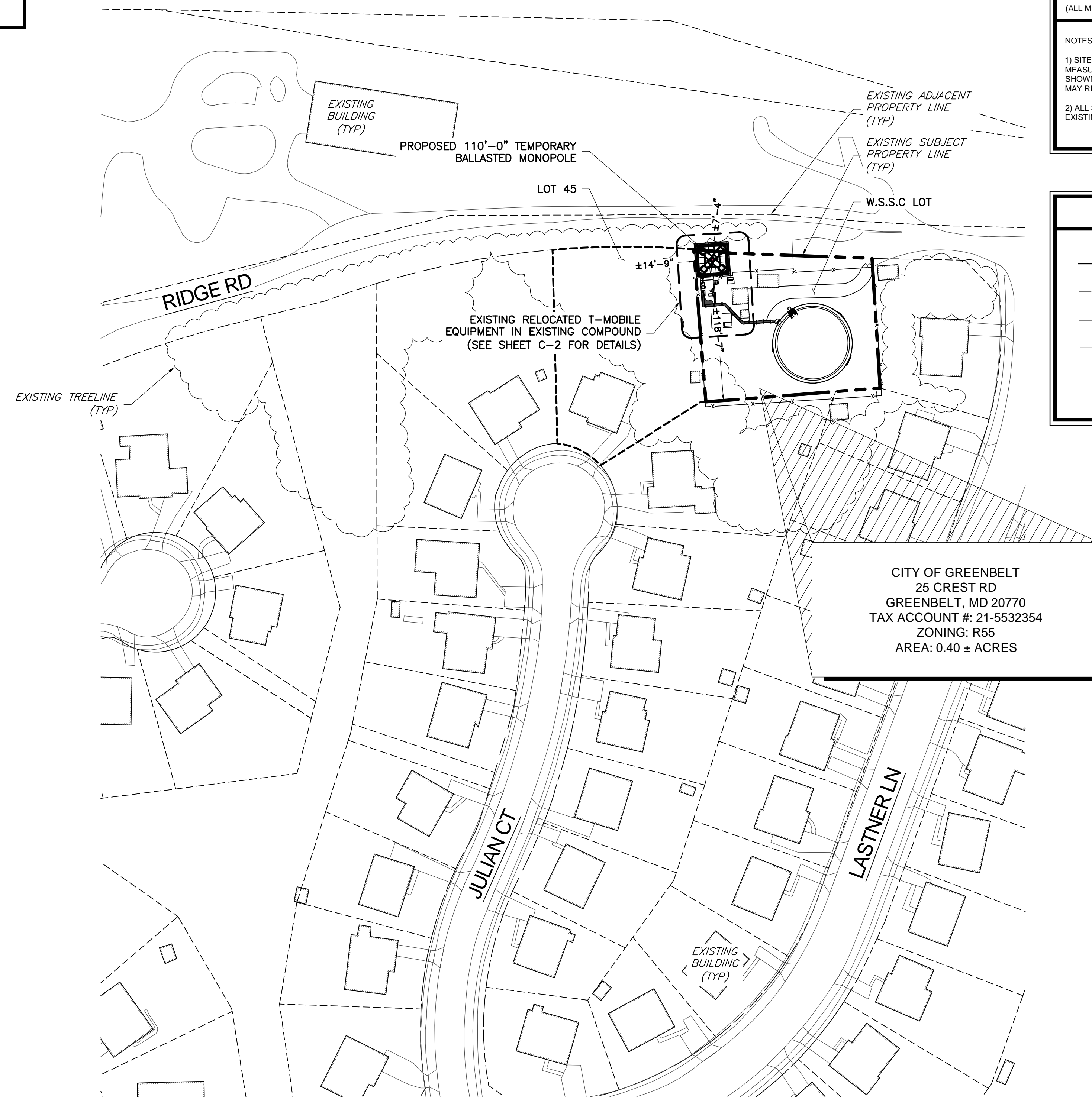
FITTINGS USED WITH METALLIC PIPE – FITTINGS IN METALLIC PIPE AND TUBING MUST BE STEEL, BRASS, COPPER, MALLEABLE IRON, DUCTILE (NODULAR) IRON OR PLASTIC. NO CAST IRON CAN BE USED. PIPE JOINTS IN WROUGHT IRON, STEEL, BRASS OR COPPER PIPE CAN ONLY BE FLANGED, THREADED, WELDED OR BRAZED. BRAZED FITTINGS MUST BE MADE USING A BRAZING FILLER MATERIAL AND MUST HAVE A MELTING POINT EXCEEDING 1,000° F. (ALL COMMERCIALY AVAILABLE BRAZES MEET THIS REQUIREMENT.) THIS ELIMINATES SOLDER AS A TUBING JOINING MATERIAL. WHEN A FLANGE IS OPENED, THE GASKET MUST BE REPLACED.

JOINING POLYETHYLENE PIPE AND TUBING – JOINTS IN POLYETHYLENE PIPE AND TUBING MUST BE MADE USING THE FOLLOWING PROCEDURES:

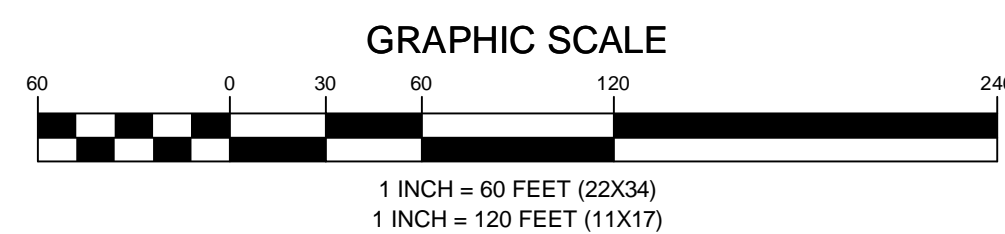
- a. HEAT FUSION.  
ASTM D2683, SPECIFICATION FOR SOCKET-TYPE POLYETHYLENE (PE) FITTINGS FOR OUTSIDE DIAMETER CONTROLLED POLYETHYLENE PIPE; OR  
ASTM D3261, SPECIFICATION FOR BUTT HEAT FUSION POLYETHYLENE (PE) PLASTIC PIPE AND TUBING; OR  
ASTM F1055, SPECIFICATION FOR ELECTROFUSION TYPE POLYETHYLENE FITTINGS FOR OUTSIDE DIAMETER CONTROLLED POLYETHYLENE PIPE AND TUBING.
- b. COMPRESSION-TYPE MECHANICAL FITTINGS UP TO 2 INCHES.  
MUST COMPLY WITH CATEGORY 1 OF ASTM D2513 FOR MECHANICAL JOINTS AND BE TESTED AND SHOWN TO BE ACCEPTABLE FOR USE WITH POLYETHYLENE PIPE AND POLYETHYLENE TUBING AND MEETING ADDITIONAL REQUIREMENTS IN NFPA 58.
- c. FACTORY-ASSEMBLED TRANSITION FITTINGS.  
ALL FITTINGS USED TO JOIN POLYETHYLENE PIPE OR POLYETHYLENE TUBING SHALL BE TESTED AND RECOMMENDED BY THE MANUFACTURER FOR USE WITH POLYETHYLENE (PE) PIPE AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S WRITTEN PROCEDURE.

<b>APPLICANT</b>	<p style="text-align: center;">T-MOBILE NORTHEAST LLC</p> <p style="text-align: center;">12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	<b>DPIE APPROVAL STAMP BLOCK</b>																																								
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1 SITE PLAN  
 SP-1 SCALE: 1" = 60' (22X34)  
 SCALE: 1" = 120' (11X17)



### ZONING INFORMATION

JURISDICTION: PRINCE GEORGE'S COUNTY		
ZONING: 21-5532354		
DIMENSION	EXISTING ±	PROPOSED ±
FRONT YARD SETBACK:	NO CHANGE	7'-4"
SIDE YARD SETBACK:	NO CHANGE	14'-9"
REAR YARD SETBACK:	NO CHANGE	118'-7"
LOT AREA: 0.40 ± ACRES		
(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)		

NOTES:  
 1) SITE PLAN IS NOT THE RESULT OF A SURVEY. IT IS BASED ON FIELD MEASUREMENTS AND SCALED ASSESSORS MAPS AVAILABLE. ALL INFORMATION SHOWN IS APPROXIMATE ONLY AND SUBJECT TO ANY CONDITION THAT A SURVEY MAY REVEAL.  
 2) ALL SETBACKS SHOWN ARE FROM PROPOSED TEMPORARY MONOPOLE TO EXISTING PROPERTY LINES.

### LEGEND

	PROPERTY LINE - SUBJECT PARCEL
	PROPERTY LINE - ABUTTERS
	EXISTING FENCE LINE
	EXISTING ROAD
	EXISTING BUILDING

APPLICANT

**T-Mobile**  
 T-MOBILE NORTHEAST LLC  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

ENGINEER

**NB+C**  
 NB+C ENGINEERING SERVICES, LLC.  
 6096 MARSHALEE DRIVE, SUITE 300  
 ELK RIDGE, MD 21075  
 (410) 712-7092

SITE INFORMATION

7WAS088A  
 WSSC-GREENBELT  
 211 RIDGE RD  
 GREENBELT, MD 20770  
 PRINCE GEORGE'S COUNTY

DESIGN RECORD

### REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	PGC

PROFESSIONAL STAMP



ENGINEER

TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

SHEET TITLE

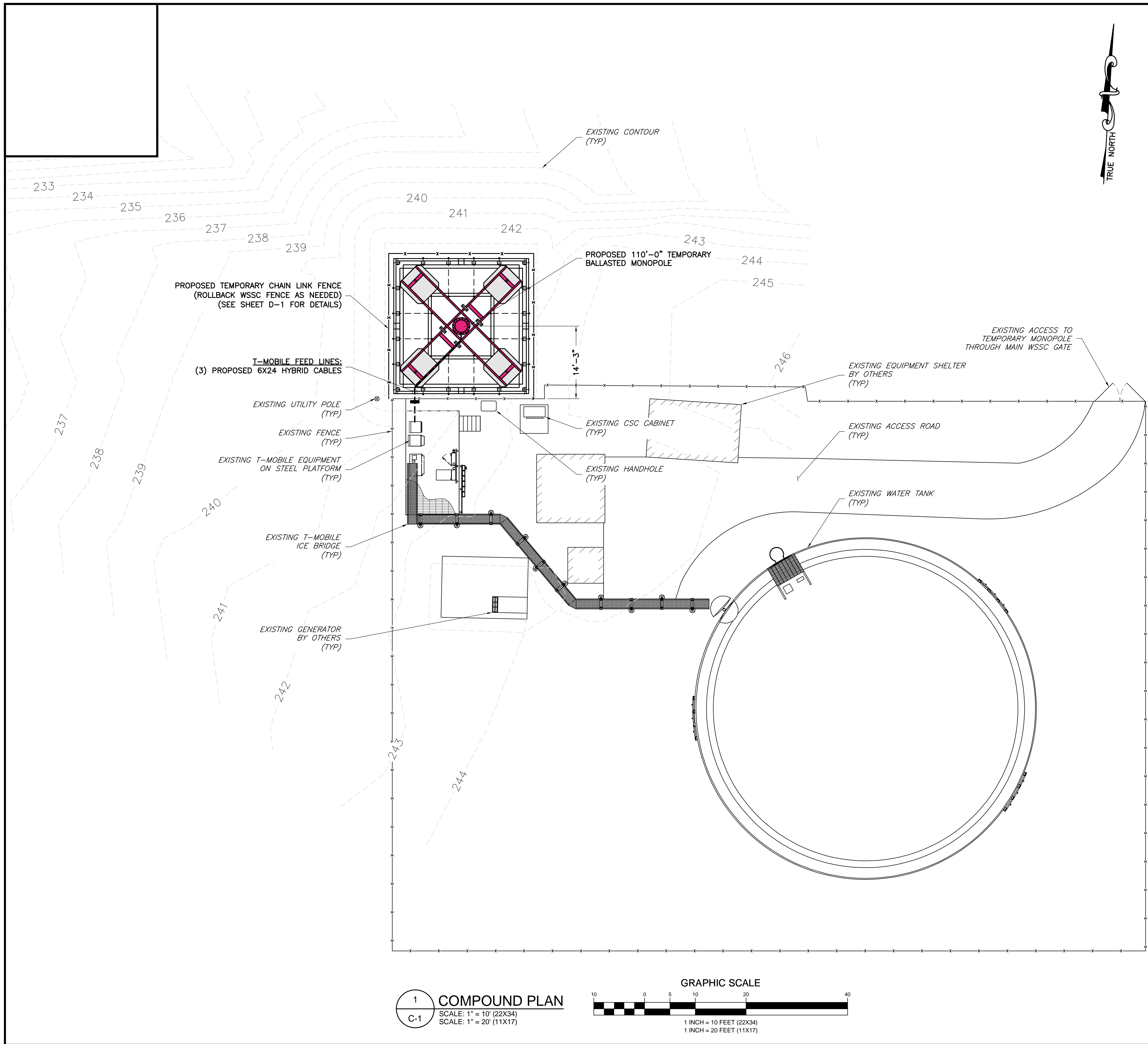
SITE PLAN

SHEET NUMBER

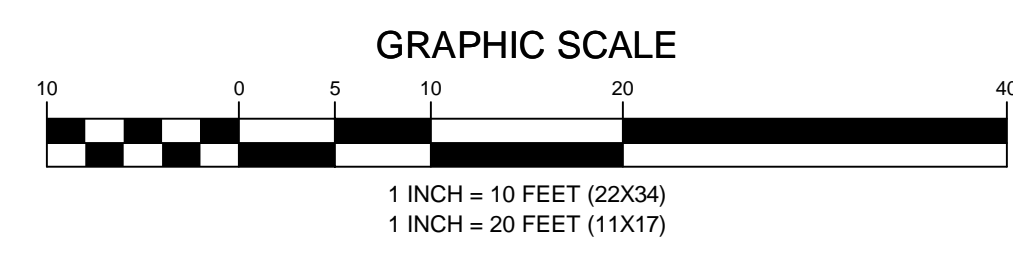
SP-1




DPIC APPROVAL STAMP BLOCK



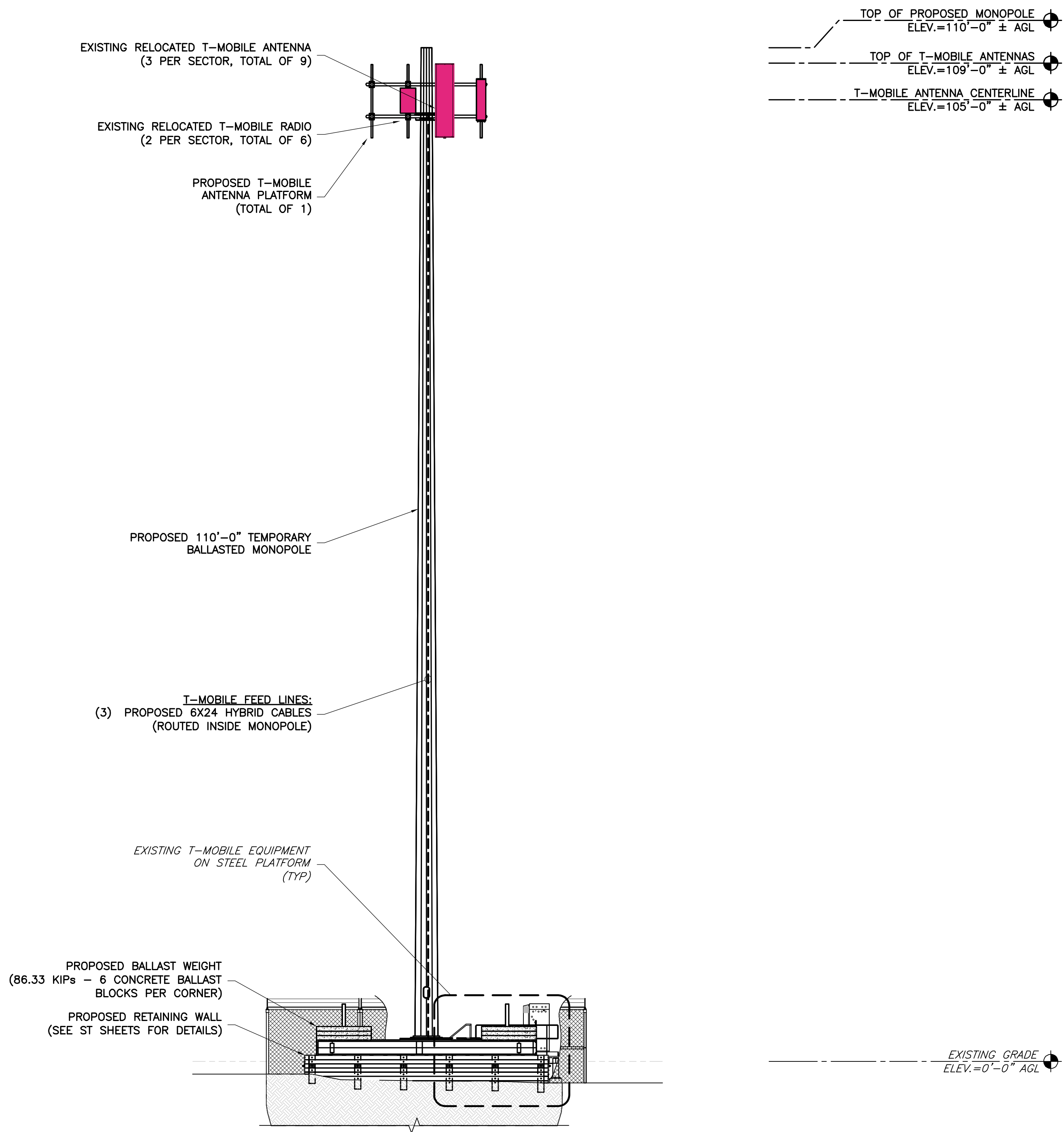


1 COMPOUND PLAN  
 C-1 SCALE: 1" = 10' (22X34)  
 SCALE: 1" = 20' (11X17)

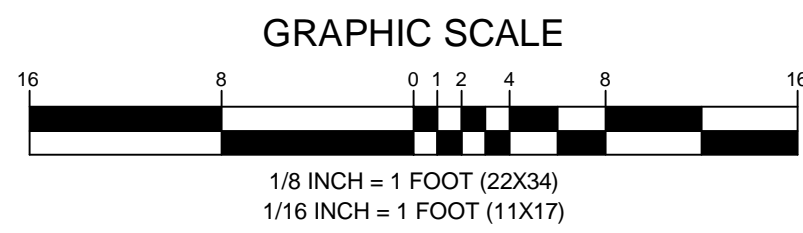


APPLICANT	 T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610	DPIE APPROVAL STAMP BLOCK											
ENGINEER	 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7022												
SITE INFORMATION	7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY												
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REVISIONS													
REV	DATE	DESCRIPTION	BY										
0	04/23/24	FINAL DRAWINGS	PGC										
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ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491												
SHEET TITLE	COMPOUND PLAN												
SHEET NUMBER	C-1												





1 ELEVATION  
 C-2 SCALE: 1/8" = 1' (22X34)  
 SCALE: 1/16" = 1' (11X17)



APPLICANT	<p>T-MOBILE NORTHEAST LLC          12050 BALTIMORE AVENUE          BELTSVILLE, MD 20705          OFFICE: (240) 264-8600          FAX: (240) 264-8610</p>	DPIE APPROVAL STAMP BLOCK								
	<p>NB+C ENGINEERING SERVICES, LLC.          6095 MARSHALEE DRIVE, SUITE 300          ELK RIDGE, MD 21075          (410) 712-7092</p>									
ENGINEER	<p>7WAS088A          WSSC-GREENBELT          211 RIDGE RD          GREENBELT, MD 20770          PRINCE GEORGE'S COUNTY</p>									
SITE INFORMATION	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>04/23/24</td> <td>FINAL DRAWINGS</td> <td>PGC</td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION	BY	0	04/23/24	FINAL DRAWINGS	PGC
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PROFESSIONAL STAMP	<p>TRENT TRAVIS SNARR, P.E.          MARYLAND PROFESSIONAL ENGINEER          LICENSE #55491</p>									
ENGINEER	<p>ELEVATION</p>									
SHEET TITLE	<p>C-2</p>									
SHEET NUMBER										



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DPIE APPROVAL STAMP BLOCK

**NB+C**  
 NB+C ENGINEERING SERVICES, LLC.  
 6095 MARSHALEE DRIVE, SUITE 300  
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 (410) 712-7092

APPLICANT

ENGINEER

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

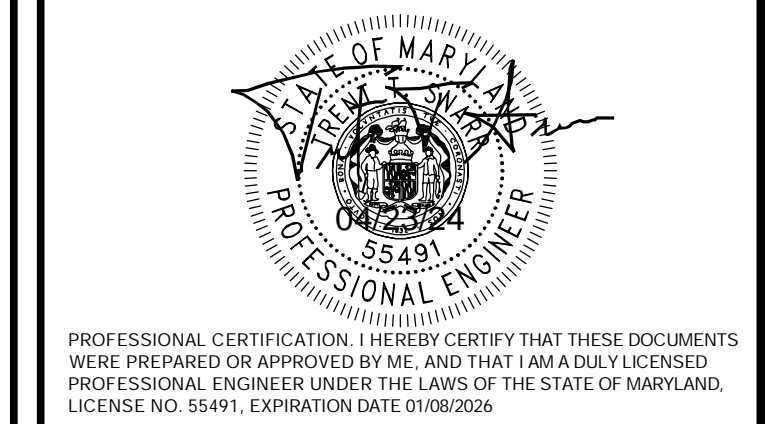
SHEET TITLE

SHEET NUMBER

7WAS088A  
 WSSC-GREENBELT  
 211 RIDGE RD  
 GREENBELT, MD 20770  
 PRINCE GEORGE'S COUNTY

**REVISIONS**

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	PGC



TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

**ANTENNA SCHEDULE**

**A-1**

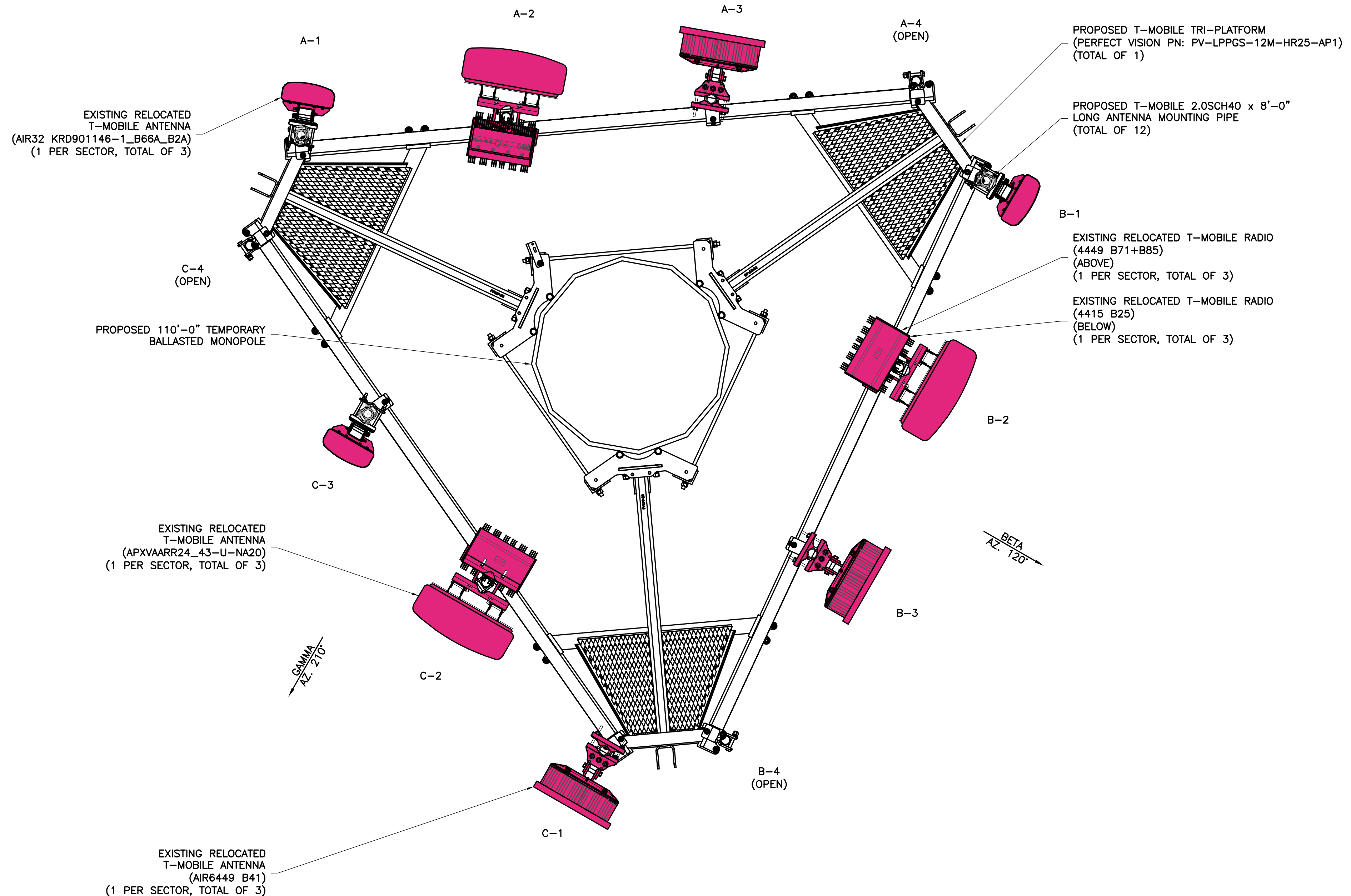
**ANTENNA SCHEDULE**

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS (HxWxD)	RAD CENTER	AZIMUTH	ELEC DOWNTILT	MECH DOWNTILT	RRU QUANTITY & MODEL	CABLE QUANTITY & TYPE	CABLE LENGTH
A1	EXISTING RELOCATED	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	105'-0"	10'	0'/0'	0'	-	(1) PROPOSED 6X24 HYBRID CABLE	120.00'
A2	EXISTING RELOCATED	RFS	APXVAARR24_43-U-NA20	95.90"x24.00"x8.70"	105'-0"	10'	0'/0'	0'	(1) EXISTING RADIO 4449 B71+B85 (1) EXISTING RADIO 4415 B25		
A3	EXISTING RELOCATED	ERICSSON	AIR6449 B41	33.1"x20.5"x8.5"	105'-0"	10'	0'/0'	0'	-		
A4	EXISTING RELOCATED	OPEN	-	-	-	-	-	-	-		
-----											
B1	EXISTING RELOCATED	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	105'-0"	120'	0'/0'	0'	-	(1) PROPOSED 6X24 HYBRID CABLE	120.00'
B2	EXISTING RELOCATED	RFS	APXVAARR24_43-U-NA20	95.90"x24.00"x8.70"	105'-0"	120'	0'/0'	0'	(1) EXISTING RADIO 4449 B71+B85 (1) EXISTING RADIO 4415 B25		
B3	EXISTING RELOCATED	ERICSSON	AIR6449 B41	33.1"x20.5"x8.5"	105'-0"	120'	0'/0'	0'	-		
B4	EXISTING RELOCATED	OPEN	-	-	-	-	-	-	-		
-----											
C1	EXISTING RELOCATED	ERICSSON	AIR6449 B41	33.1"x20.5"x8.5"	105'-0"	210'	0'/0'	0'	-	(1) PROPOSED 6X24 HYBRID CABLE	120.00'
C2	EXISTING RELOCATED	RFS	APXVAARR24_43-U-NA20	95.90"x24.00"x8.70"	105'-0"	210'	0'/0'	0'	(1) EXISTING RADIO 4449 B71+B85 (1) EXISTING RADIO 4415 B25		
C3	EXISTING RELOCATED	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	105'-0"	210'	0'/0'	0'	-		
C4	EXISTING RELOCATED	OPEN	-	-	-	-	-	-	-		

NOTES:  
 1. CONTRACTOR TO VERIFY ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.  
 2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

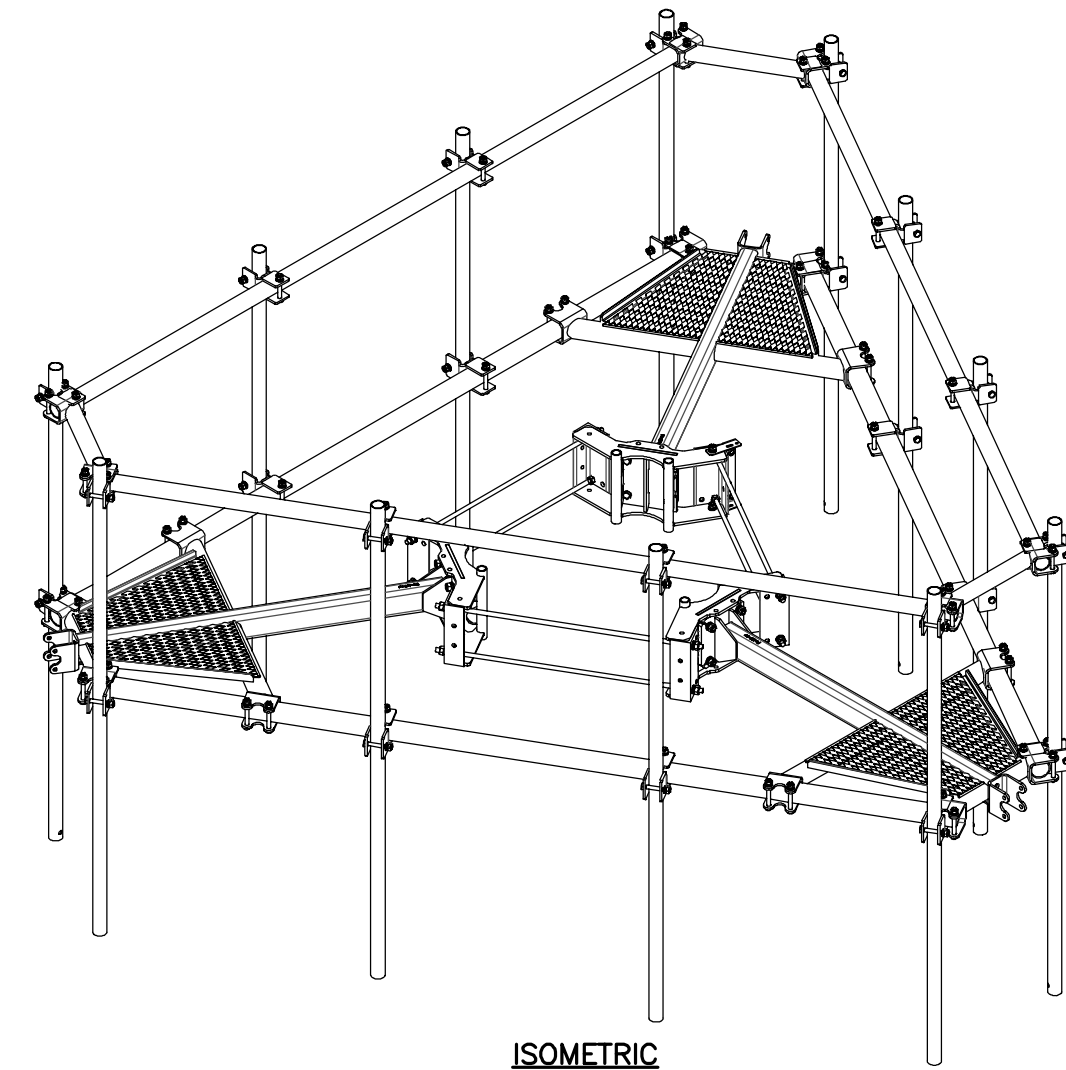
1 ANTENNA CONFIGURATION SCHEDULE  
 A-1 NOT TO SCALE



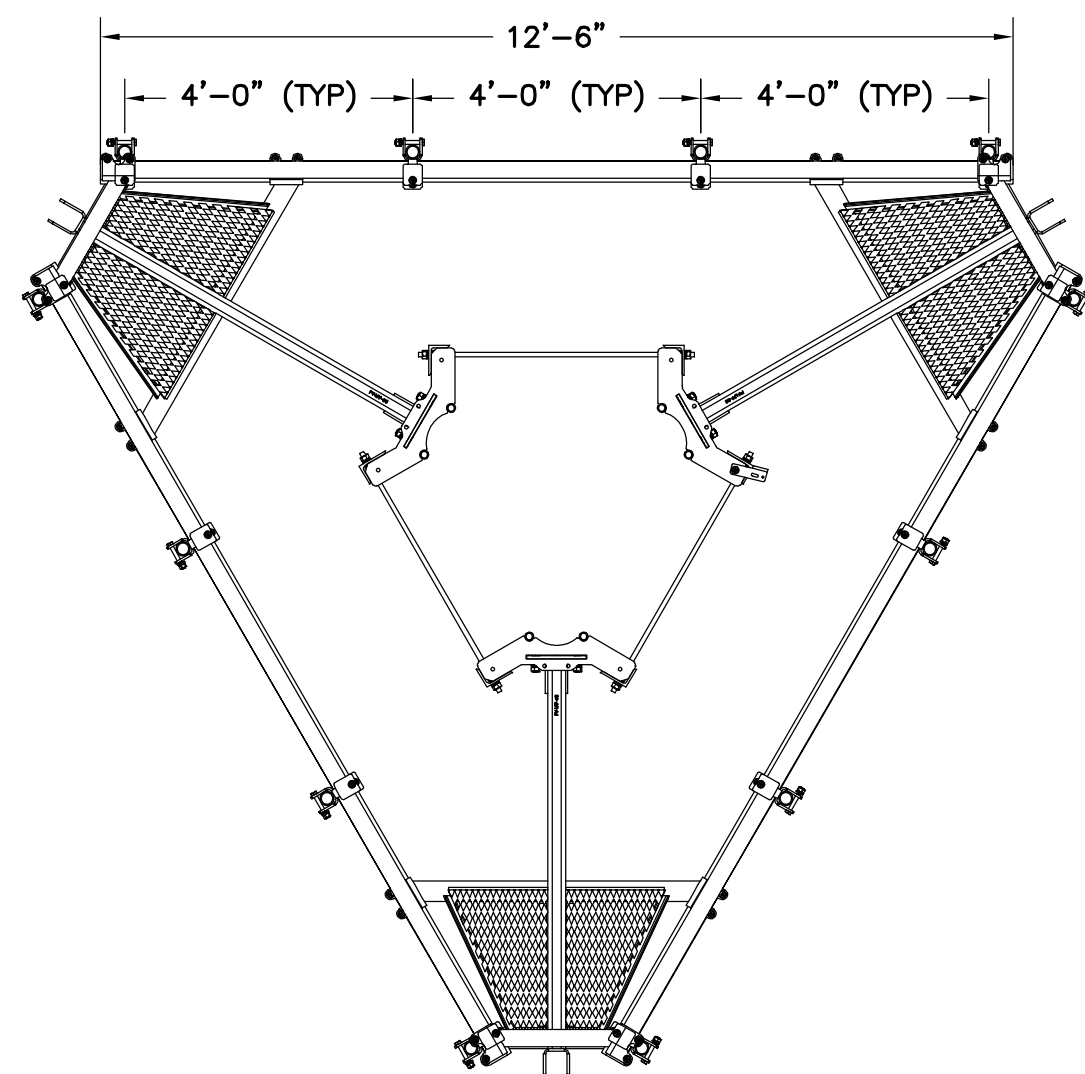


1  
A-2  
PROPOSED ANTENNA ORIENTATION PLAN  
NOT TO SCALE

APPLICANT	<p>T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	<p>DPIE APPROVAL STAMP BLOCK</p>							
ENGINEER	<p>NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092</p>								
SITE INFORMATION	<p>7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY</p>								
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ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>								
SHEET TITLE	<p>ANTENNA PLAN</p>								
SHEET NUMBER	<p>A-2</p>								

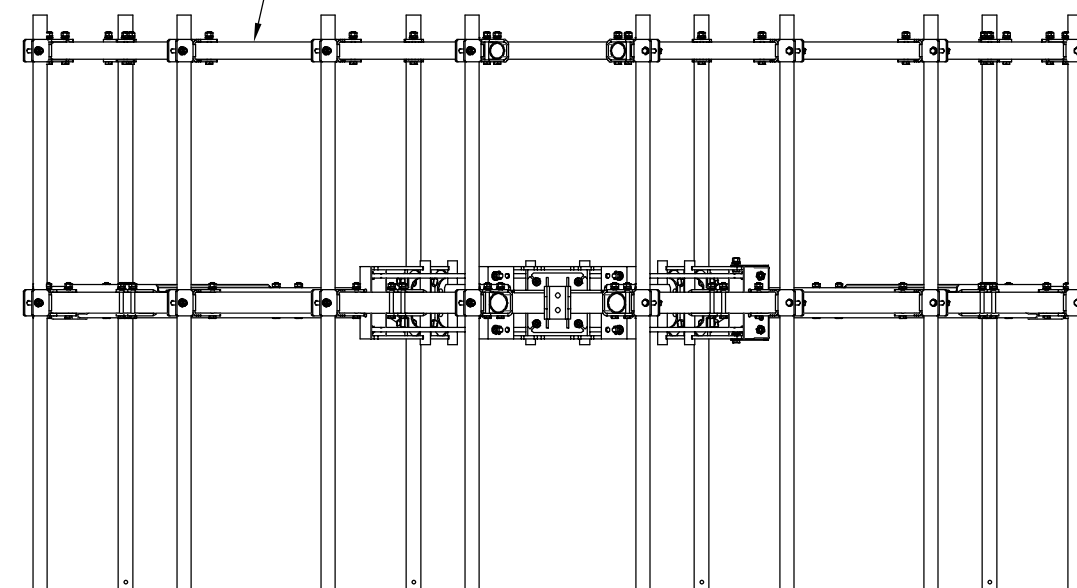


ISOMETRIC






PLAN

PROPOSED T-MOBILE ANTENNA TRI-PLATFORM  
(PERFECT VISION PN: PV-LPPGS-12M-HR25-AP1)  
(TOTAL OF 1)

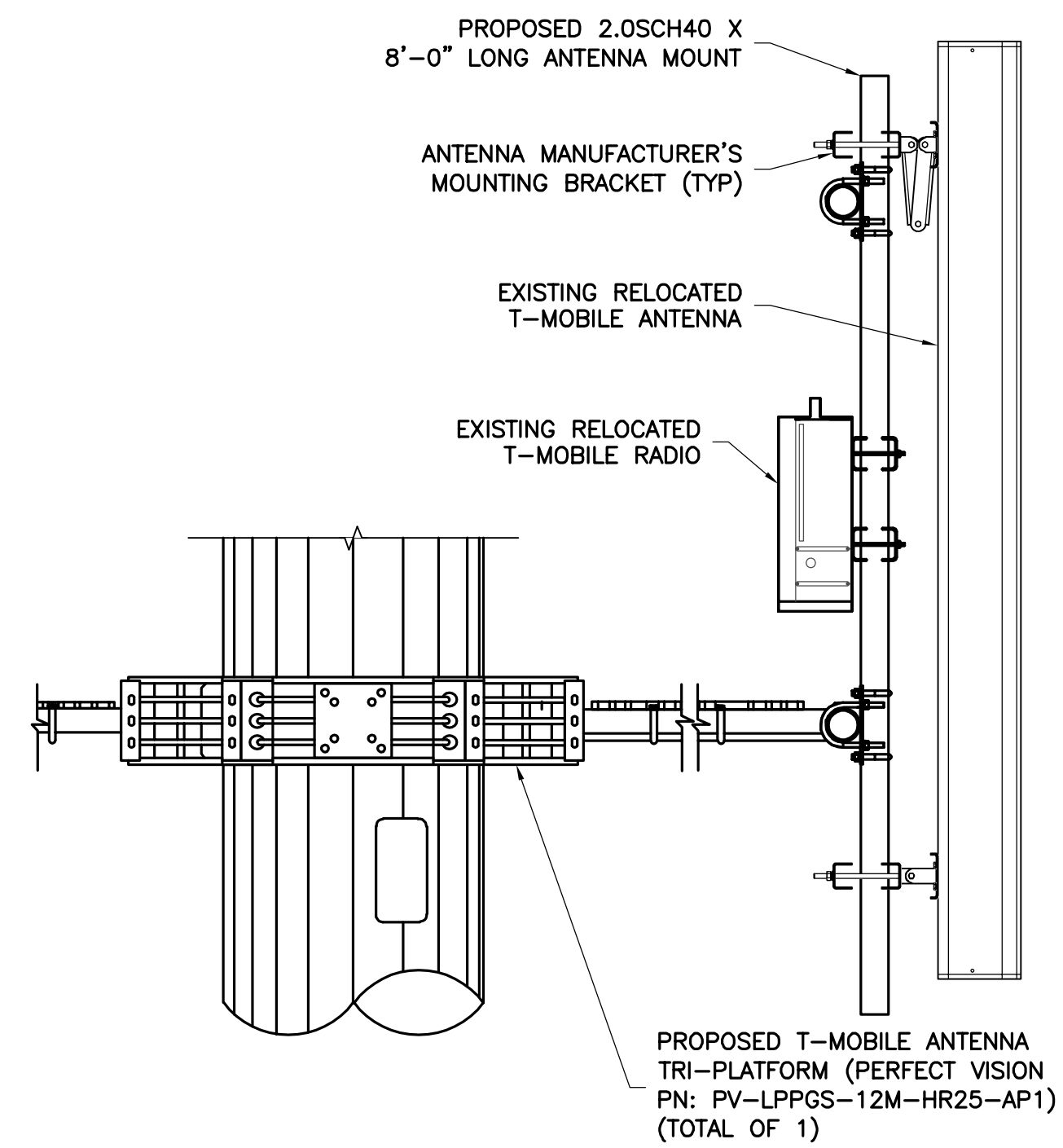


FRONT

1 PERFECT VISION TRI PLATFORM PN: PV-LPPGS-12M-HR25-AP1 DETAIL  
A-3 NTS

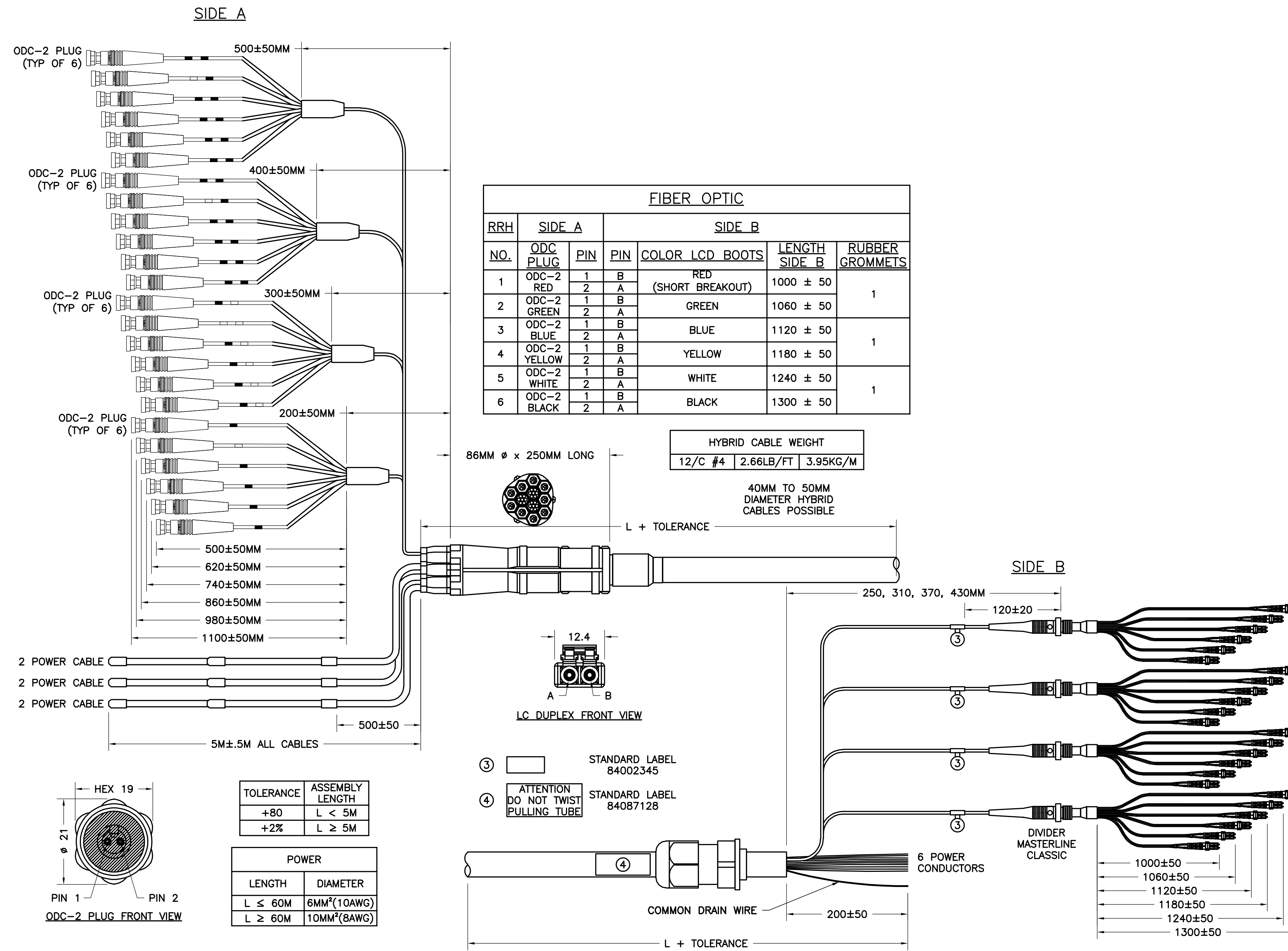
APPLICANT	 T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610	DPIE APPROVAL STAMP BLOCK												
	 NB+C ENGINEERING SERVICES, LLC. <small>6095 MARSHALEE DRIVE, SUITE 300          ELK RIDGE, MD 21075          (410) 712-7092</small>													
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ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491													
SHEET TITLE	PLATFORM SPECIFICATIONS													
SHEET NUMBER	<h1 style="text-align: center;">A-3</h1>													





1 TYPICAL ANTENNA MOUNTING DETAIL  
A-4 NTS

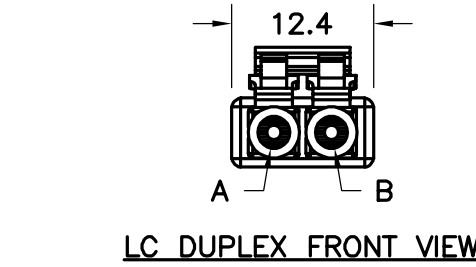
APPLICANT	<p>T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	<p>DPIE APPROVAL STAMP BLOCK</p>								
	<p><b>NB+C</b></p> <p>NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092</p>									
ENGINEER										
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ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>									
SHEET TITLE	<p style="text-align: center;"><b>ANTENNA MOUNTING DETAILS</b></p>									
SHEET NUMBER	<p style="text-align: center;"><b>A-4</b></p>									



FIBER OPTIC						
RRH	SIDE A		SIDE B		LENGTH SIDE B	RUBBER GROMMETS
NO.	ODC PLUG	PIN	PIN	COLOR LCD BOOTS		
1	ODC-2 RED	1	B	RED (SHORT BREAKOUT)	1000 ± 50	1
		2	A			
2	ODC-2 GREEN	1	B	GREEN	1060 ± 50	1
		2	A			
3	ODC-2 BLUE	1	B	BLUE	1120 ± 50	1
		2	A			
4	ODC-2 YELLOW	1	B	YELLOW	1180 ± 50	1
		2	A			
5	ODC-2 WHITE	1	B	WHITE	1240 ± 50	1
		2	A			
6	ODC-2 BLACK	1	B	BLACK	1300 ± 50	1
		2	A			

HYBRID CABLE WEIGHT		
12/C #4	2.66LB/FT	3.95KG/M

40MM TO 50MM DIAMETER HYBRID CABLES POSSIBLE



- ③ STANDARD LABEL 84002345
- ④ ATTENTION DO NOT TWIST PULLING TUBE STANDARD LABEL 84087128

TOLERANCE	ASSEMBLY LENGTH
+80	L < 5M
+2%	L ≥ 5M

POWER	
LENGTH	DIAMETER
L ≤ 60M	6MM <sup>2</sup> (10AWG)
L ≥ 60M	10MM <sup>2</sup> (8AWG)

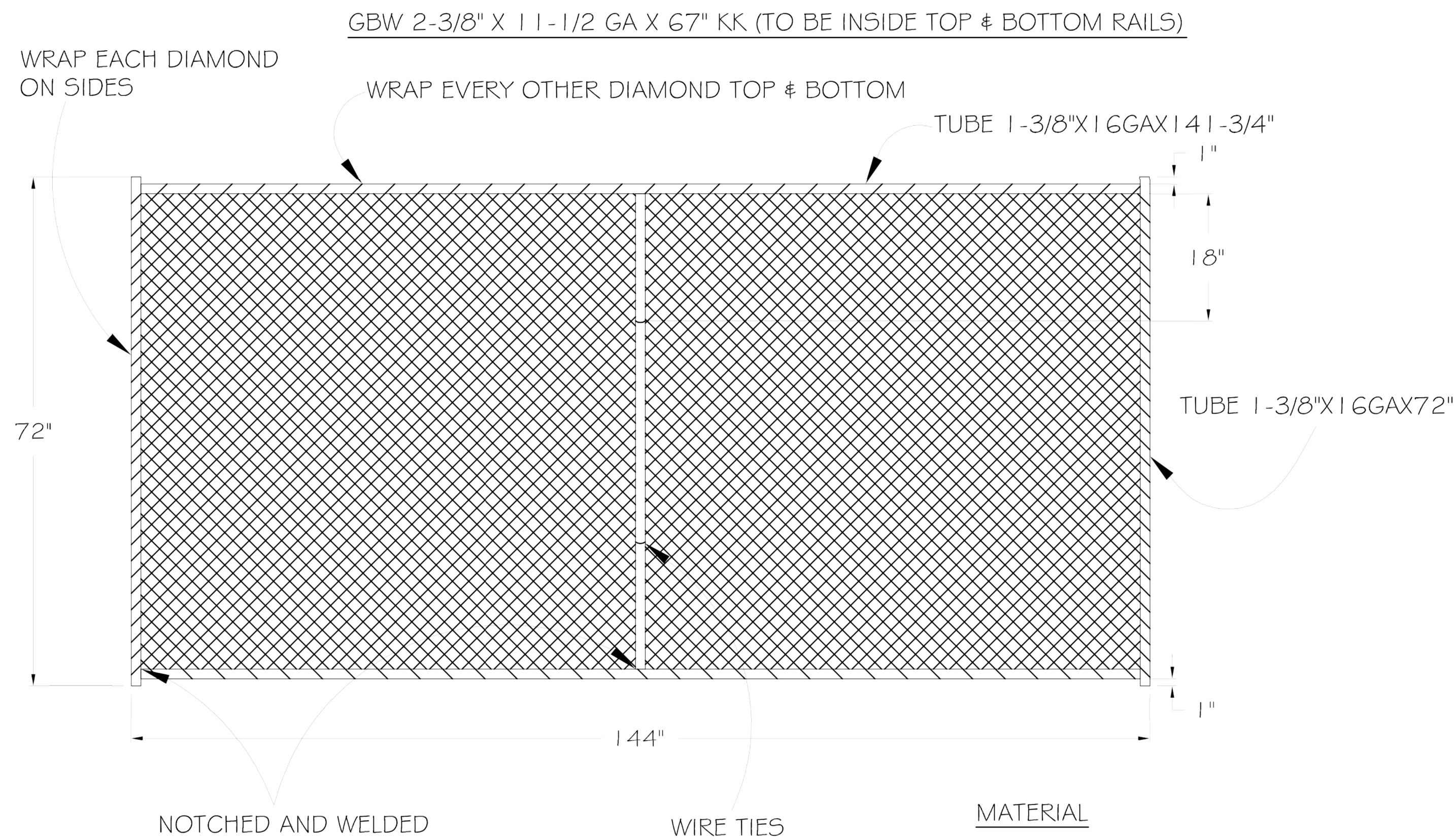
RRH NO.	REF HOOK UP	SIDE A		SIDE B
		WIRE COLOR	CABLE DESIGNATOR	WIRE COLOR
1	-48V	BLACK	RED	RED
	0V	GREY		BLACK
	GROUND	DRAIN		COMMON DRAIN
2	-48V	BLACK	GREEN	GREEN
	0V	GREY		WHITE
	GROUND	DRAIN		COMMON DRAIN
3	-48V	BLACK	BLUE	BLUE
	0V	GREY		ORANGE
	GROUND	DRAIN		COMMON DRAIN

RRH NO.	REF HOOK UP	SIDE A		SIDE B
		WIRE COLOR	CABLE DESIGNATOR	WIRE COLOR
4	-48V	BLACK	YELLOW	RED
	0V	GREY		BLACK
	GROUND	DRAIN		COMMON DRAIN
5	-48V	BLACK	WHITE	GREEN
	0V	GREY		WHITE
	GROUND	DRAIN		COMMON DRAIN
6	-48V	BLACK	BLACK	BLUE
	0V	GREY		ORANGE
	GROUND	DRAIN		COMMON DRAIN

1 MLE HYBRID CABLE (6 POWER/24 FIBER)  
A-5 NOT TO SCALE

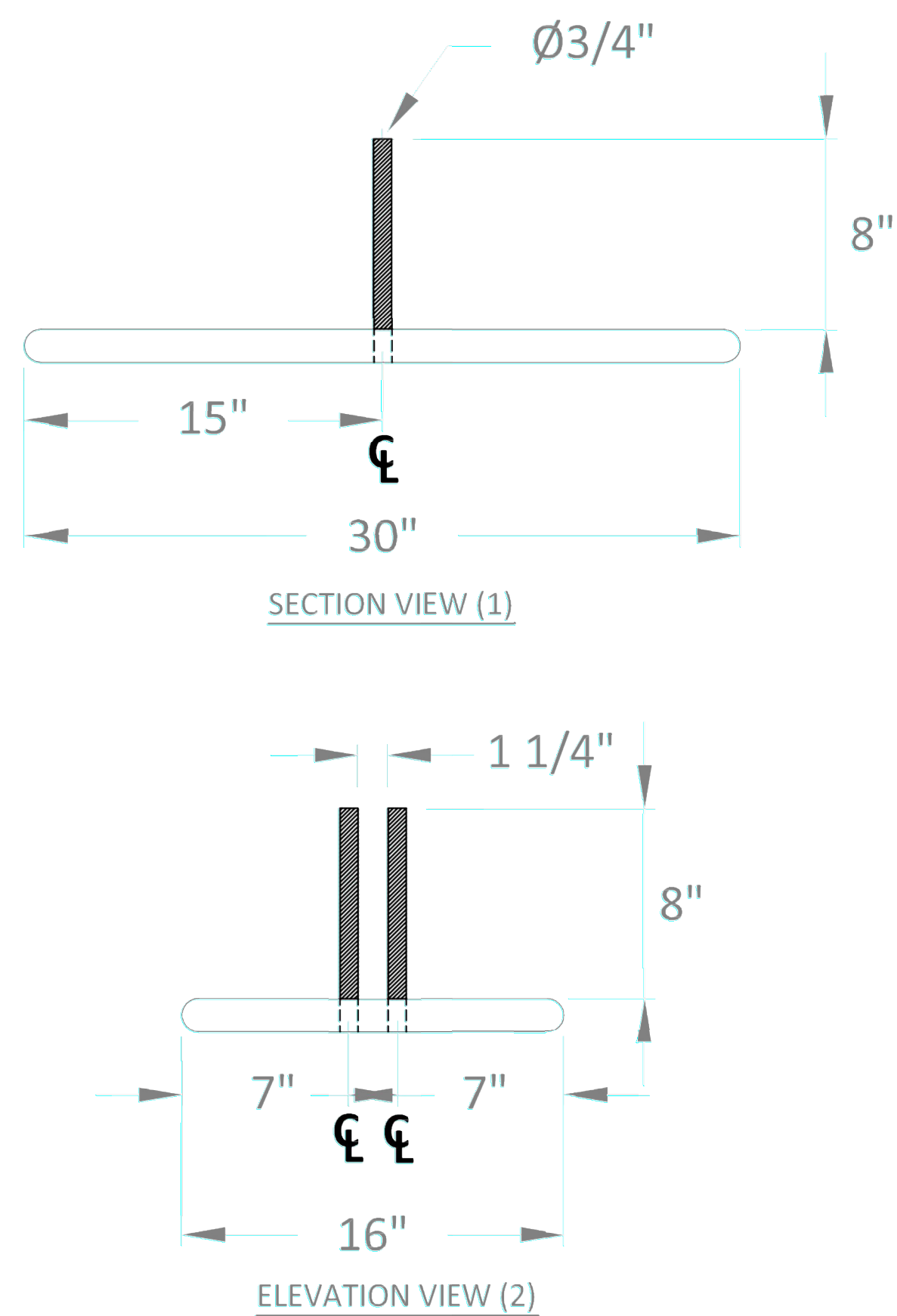
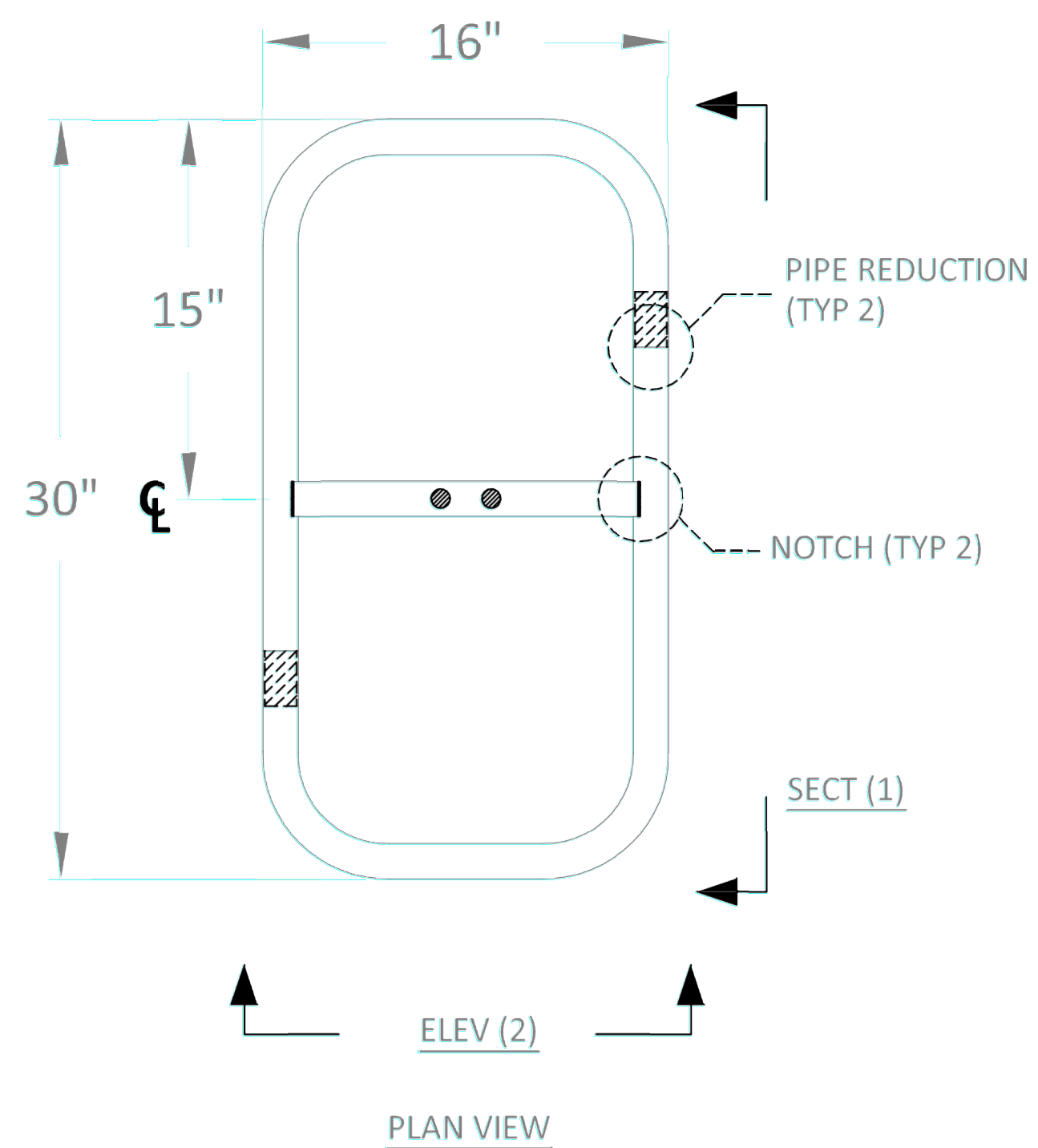
APPLICANT	<p>T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	DPIE APPROVAL STAMP BLOCK												
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ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>													
SHEET TITLE	<p>CABLING DETAILS</p>													
SHEET NUMBER	<p>A-5</p>													





- MATERIAL**
- TUBE 1-3/8" X 16 GA X 141-3/4" QTY: 2
  - TUBE 1-3/8" X 16 GA X 72" QTY: 2
  - TUBE 1-3/8" X 16 GA X 67-3/4" QTY: 1

**NOTE:**  
 SPECS FROM TEMPFENCE USA,  
 OR APPROVED EQUAL.

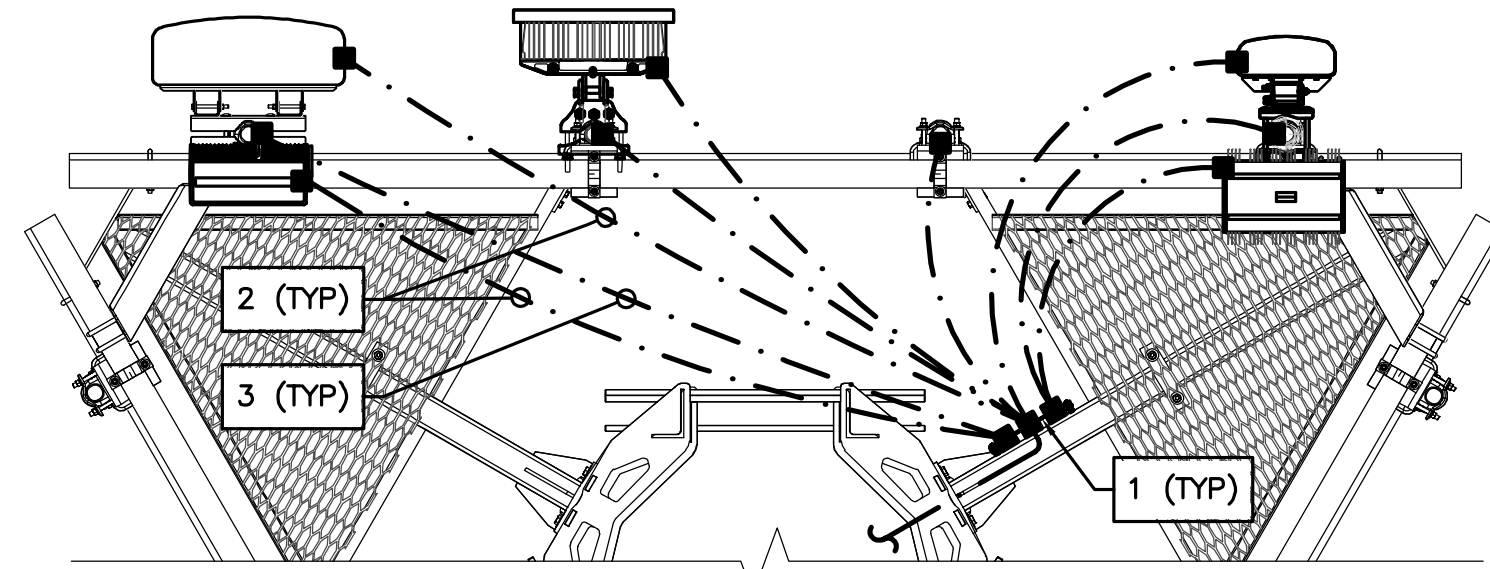


- COMPONENTS**
- 1) ROUND TUBE (PIPE) 1-3/8, 16GA
  - 2) ROUND BAR 3/4" DIAMETER (APPROX. 12" LENGTH)

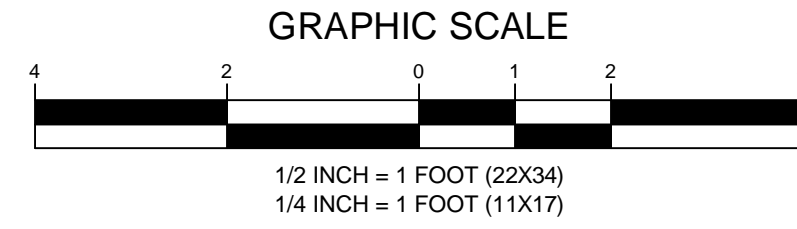
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ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491			
SHEET TITLE	<b>TEMPORARY FENCE DETAILS</b>			
SHEET NUMBER	<b>D-1</b>			



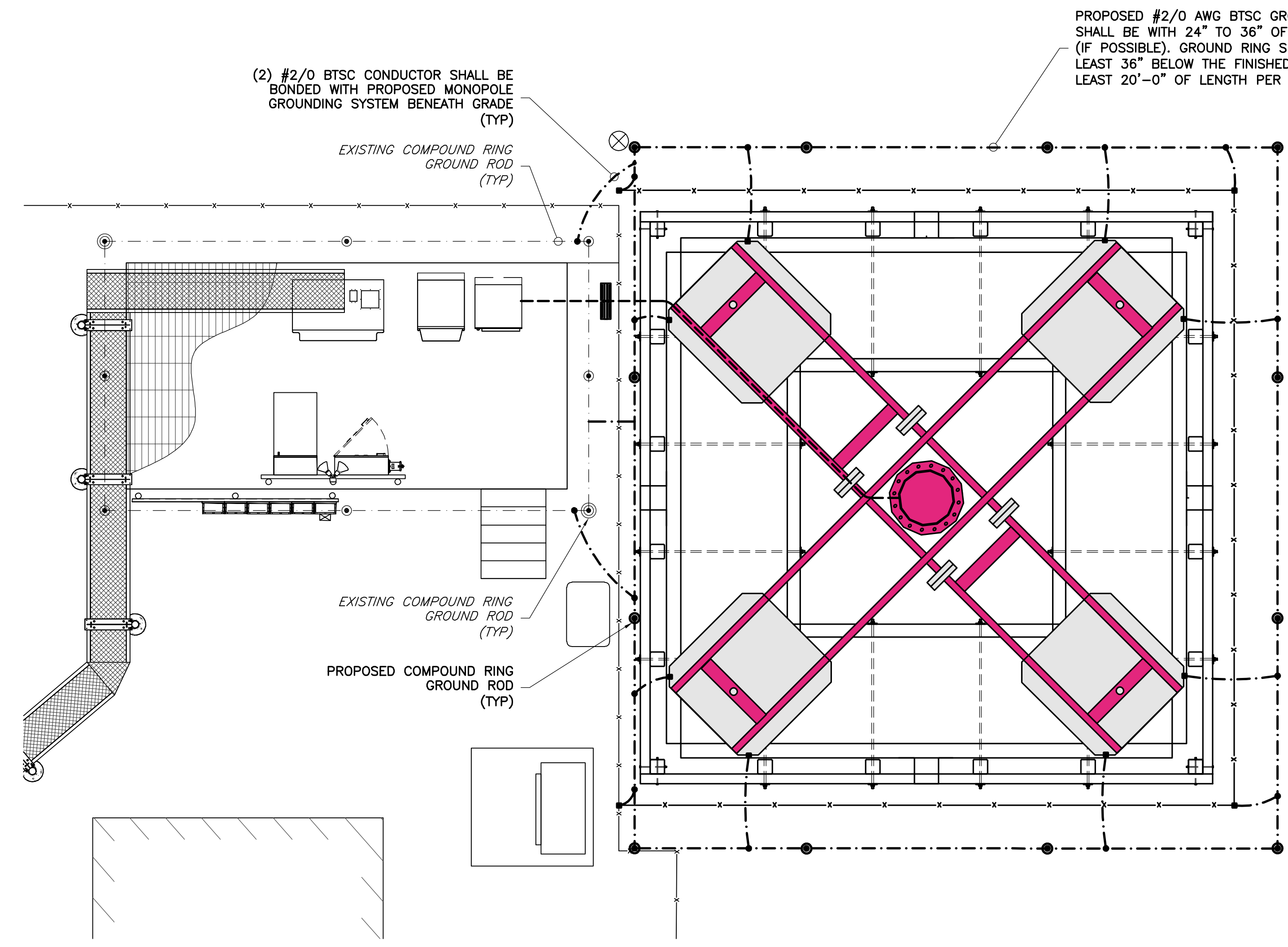
GROUNDING SCHEDULE	
1	(P) SECTOR GROUND BAR
2	(P) #6 AWG STRANDED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR PER ANTENNA/RRU (ACCORDING TO MANUFACTURER SPECS)
3	(P) #2 AWG STRANDED GREEN INSULATED SOLID COPPER CONDUCTOR BONDED TO GROUND BAR



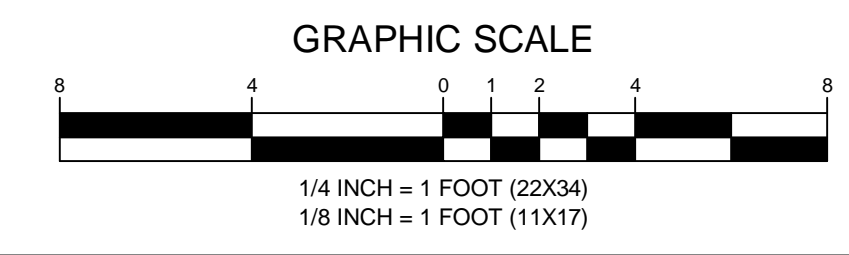
**1 TYPICAL ANTENNA GROUNDING PLAN**  
 SCALE: 1/2" = 1' (22X34)  
 SCALE: 1/4" = 1' (11X17)



GROUNDING LEGEND	
▲	CALDWELD CONNECTION
■	COAXIAL CABLE SHIELD GROUND KIT CONNECTION
■	COMPRESSION FITTING CONNECTION
●	EXOTHERMIC WELD CONNECTION
○	5/8"x10" COPPER-CLAD STEEL GROUND ROD
○	5/8"x10" COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
---	PROPOSED GROUND WIRING
---	EXISTING GROUND WIRING
-----	TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
-----	COLLECTOR GROUND BAR
-----	MAIN GROUND BAR
-----	BARE, TINNED, SOLID COPPER
-----	GREEN-INSULATED, STRANDED COPPER

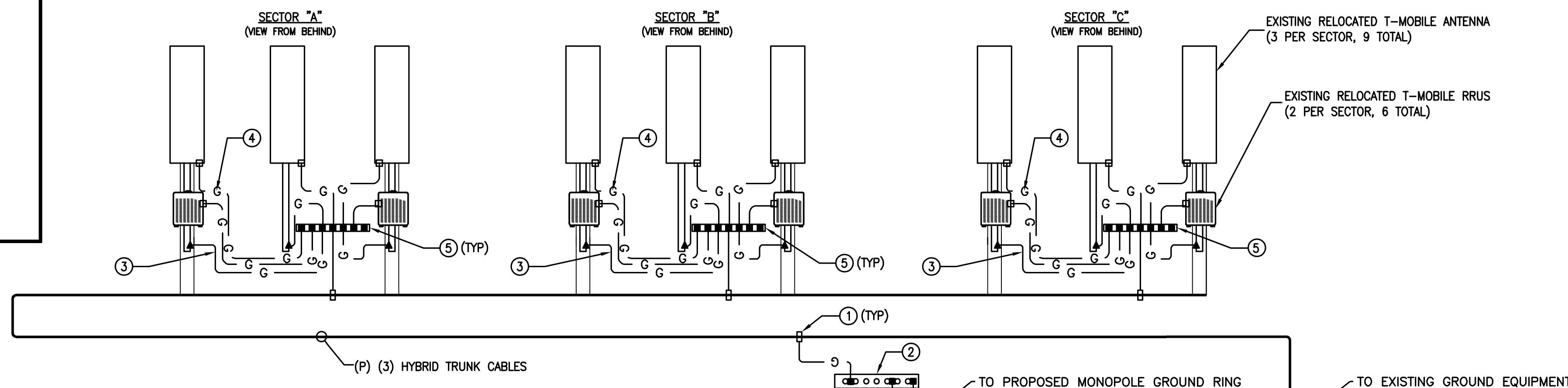


**2 EQUIPMENT GROUNDING PLAN**  
 SCALE: 1/4" = 1' (22X34)  
 SCALE: 1/8" = 1' (11X17)



APPLICANT	 T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610	DPIE APPROVAL STAMP BLOCK							
	 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092								
ENGINEER									
SITE INFORMATION	7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY								
DESIGN RECORD	<b>REVISIONS</b>								
	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>04/23/24</td> <td>FINAL DRAWINGS</td> <td>PGC</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	04/23/24	FINAL DRAWINGS	PGC
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ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491								
SHEET TITLE	<b>GROUNDING PLANS</b>								
SHEET NUMBER	<b>G-1</b>								



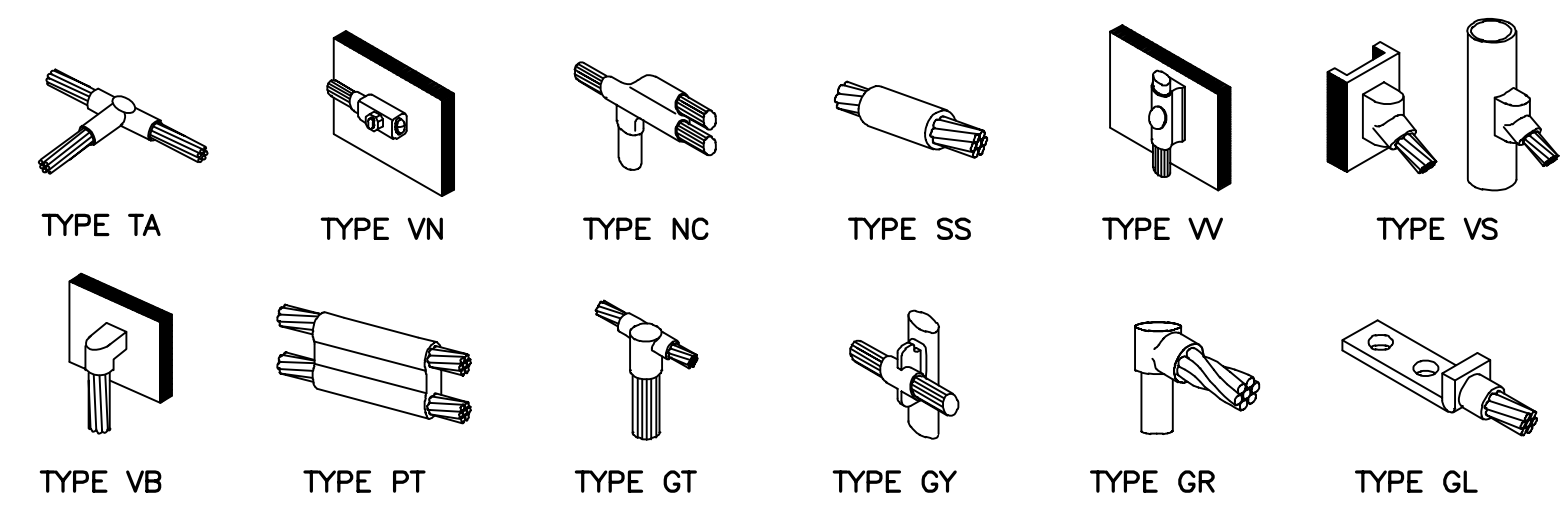


GROUNDING SCHEDULE	
①	(P) STANDARD GROUNDING KIT (COMMSCOPE PART #UG12158-15B4-T OR EQUIV.)
②	(P) MGB - (P) TOWER GROUND BAR @ TOWER LEG
③	(P) EQUIPMENT GROUNDING (SEE 1/G-1 FOR DETAILS)
④	(P) #6 AWG STRANDED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR PER ANTENNA/RADIO (ACCORDING TO MANU. SPECS)
⑤	(P) CGB - SECTOR GROUND BAR (TYP)

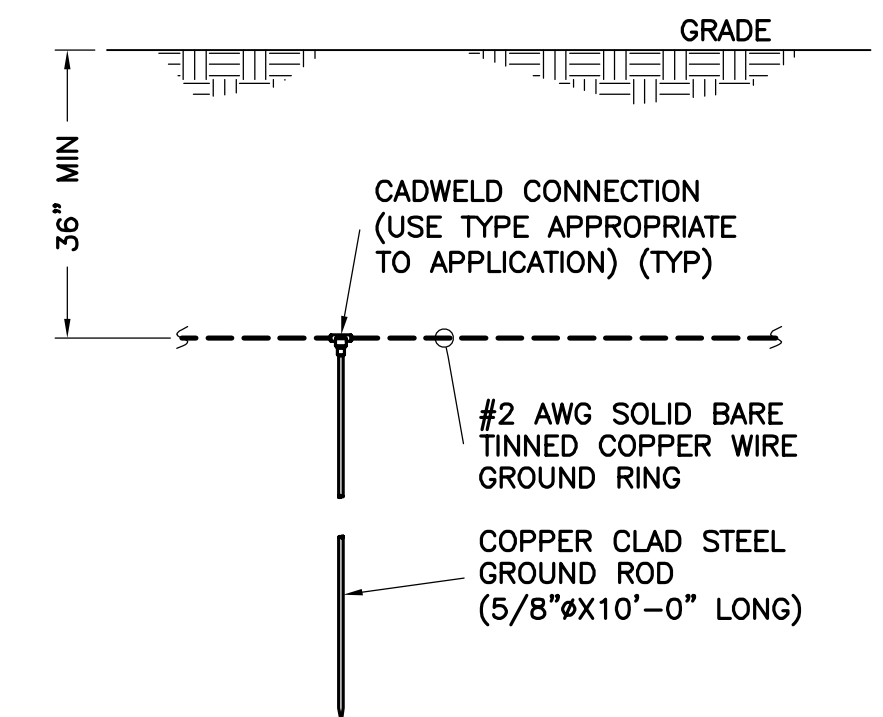
NOTES:  
 A. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.  
 B. DO NOT INSTALL GROUND KIT AT BEND. DIRECT GROUND WIRE DOWN TO ANTENNA BUSSBAR.

1 GROUNDING RISER DIAGRAM  
 G-2 NTS

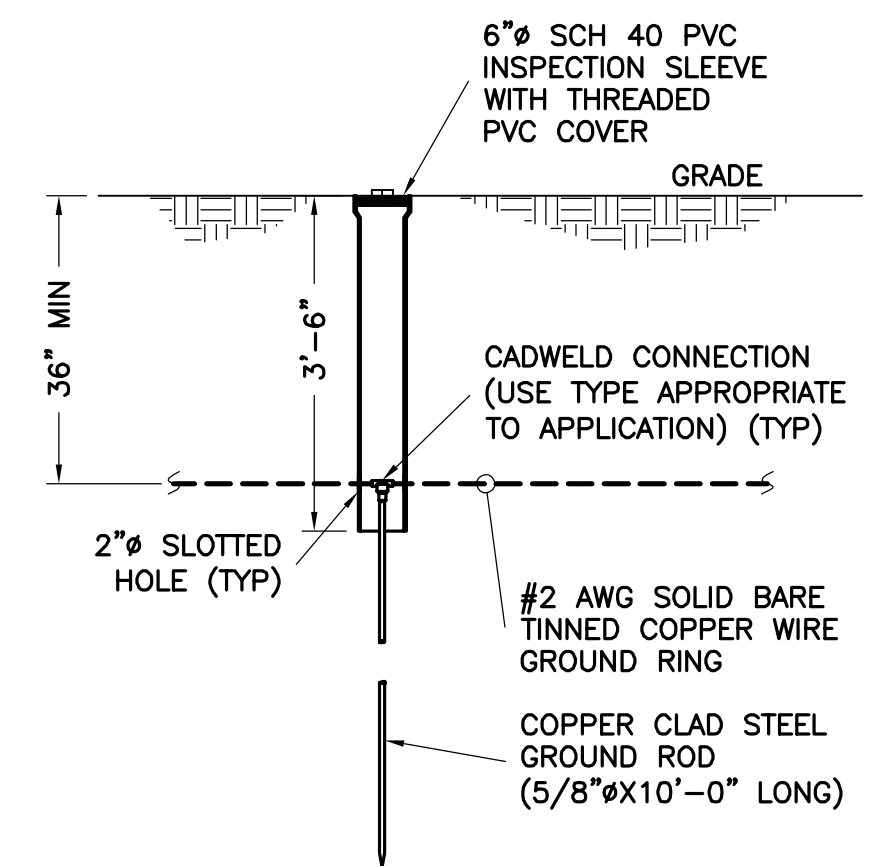
GROUNDING LEGEND	
■	MECHANICAL COMPRESSION CONNECTION
▲	CADWELD CONNECTION
●	EXOTHERMIC WELD CONNECTION
---	PROPOSED GROUND WIRING



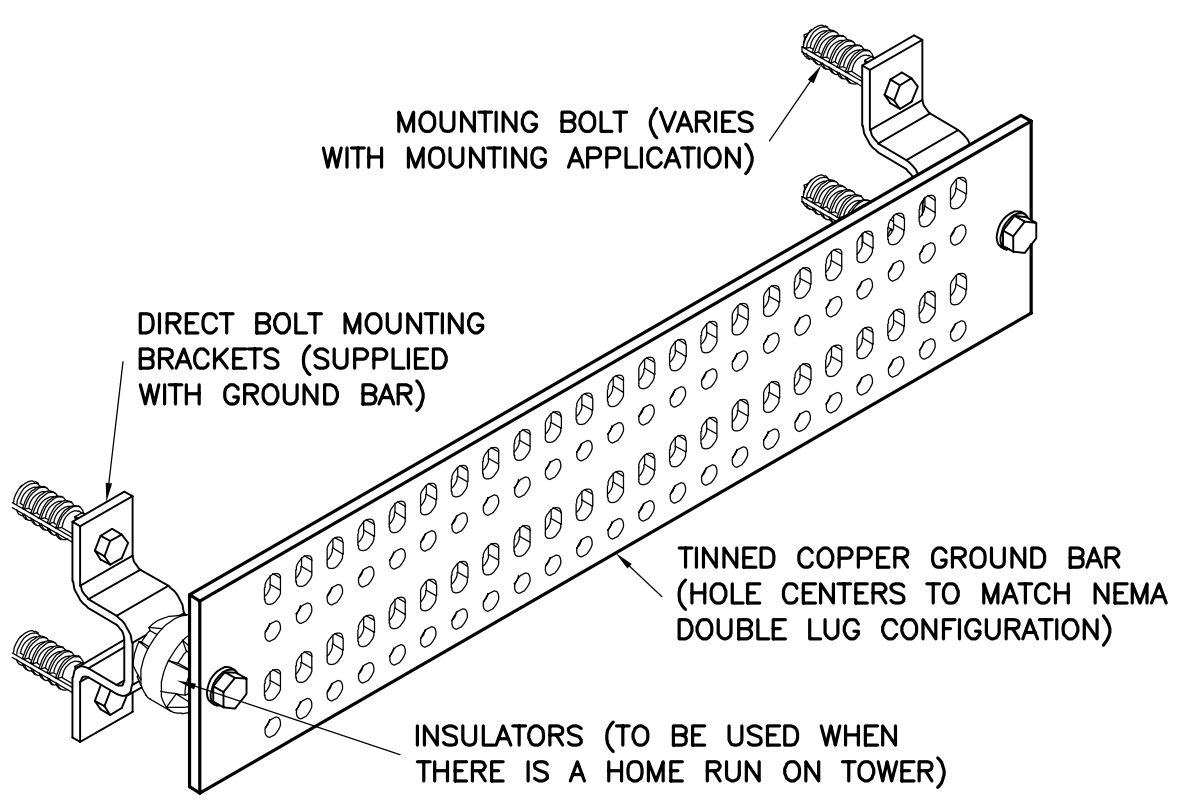
4 CADWELD GROUNDING CONNECTION DETAILS  
 G-2 NTS



2 TYPICAL GROUND ROD DETAIL  
 G-2 NTS

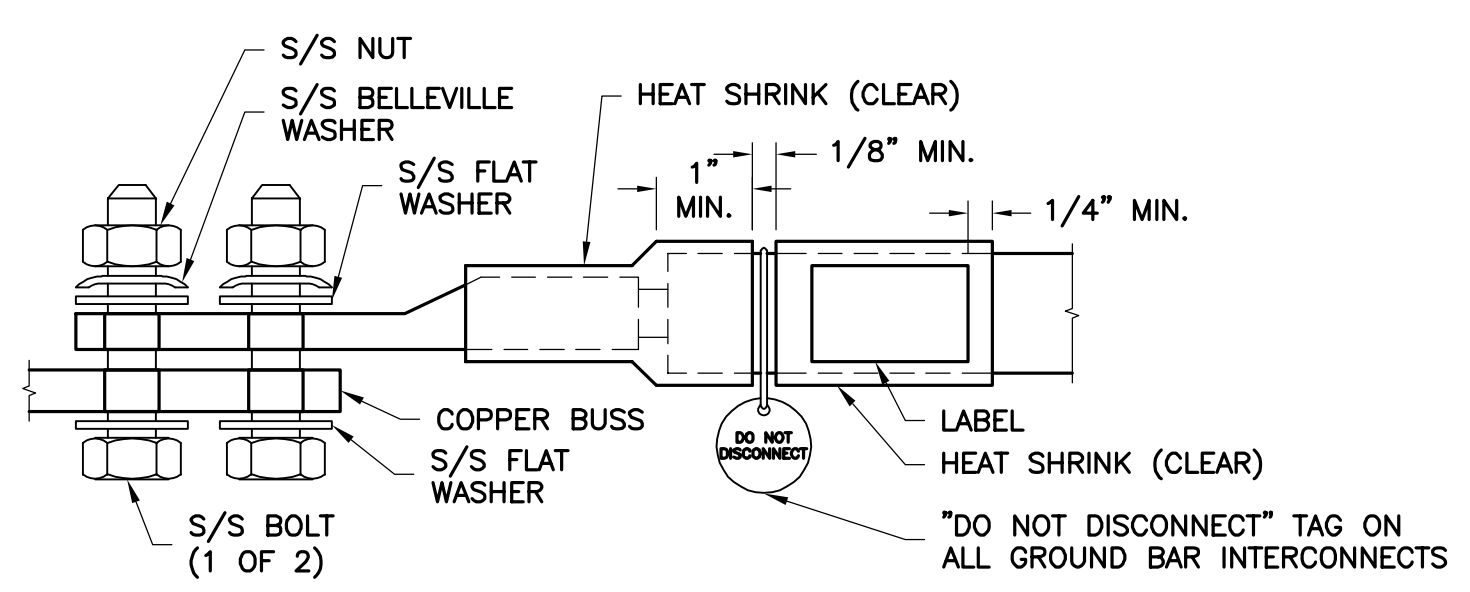


3 GROUNDING ROD INSPECTION WELL  
 G-2 NTS



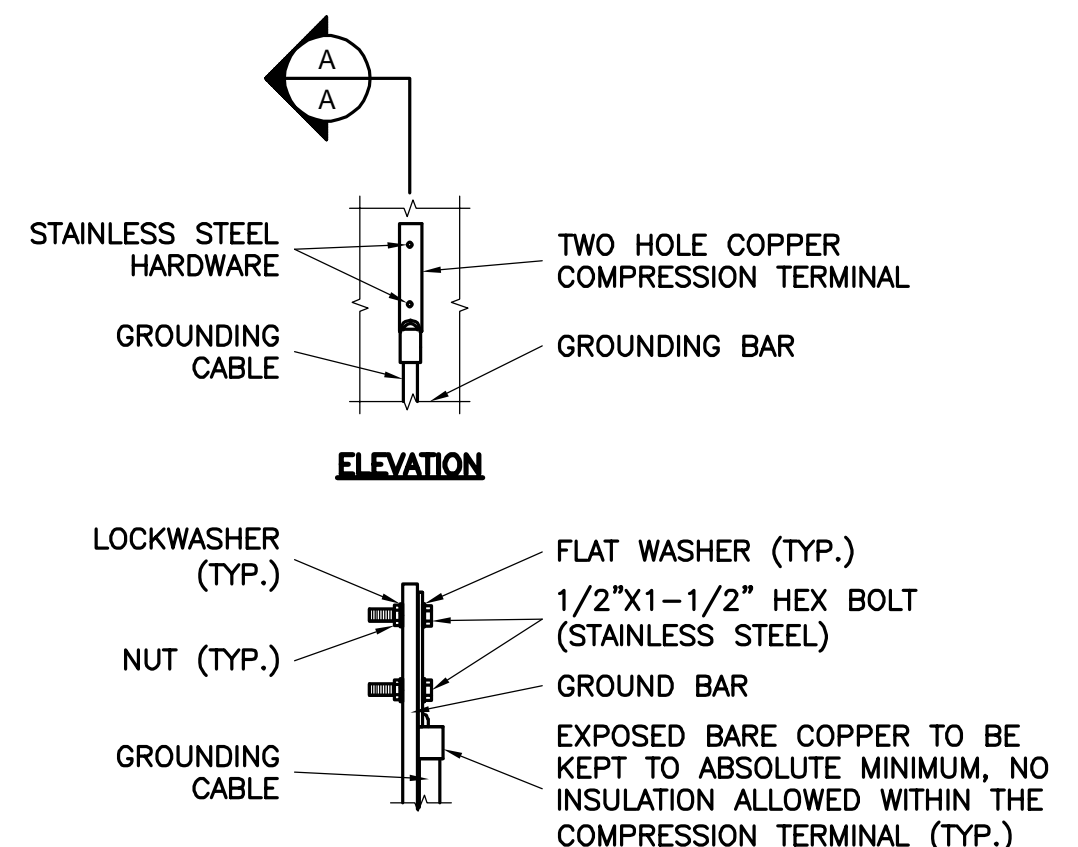
GROUND BAR SCHEDULE				
TYPE	QTY	MANUFACTURER	PART NO.	REMARKS
MGB	2	ANDREW	UGBKIT-0420-T	OR EQUAL
CBG	3	ANDREW	UGBKIT-0412	OR EQUAL

5 GROUND BAR DETAIL  
 G-2 NTS



- NOTES:
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
  - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
  - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

6 GENERAL LUG DETAIL  
 G-2 NTS



- NOTE:
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
  - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

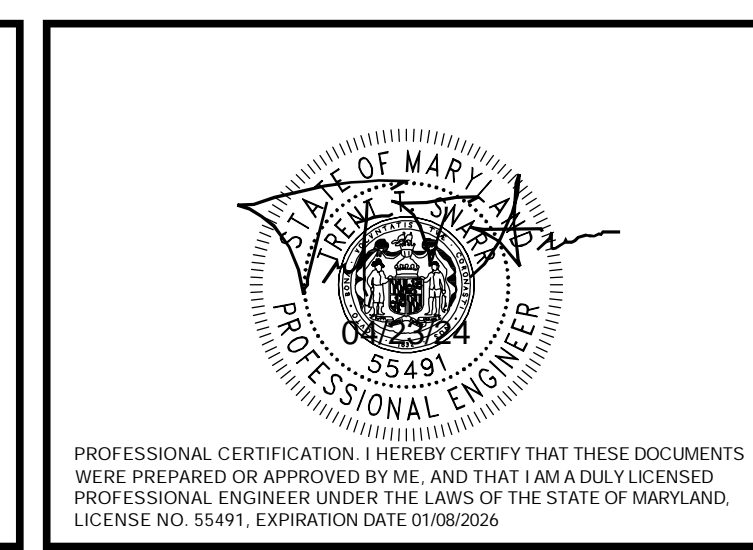
7 TYPICAL GROUND BAR CONNECTION DETAIL  
 G-2 NTS

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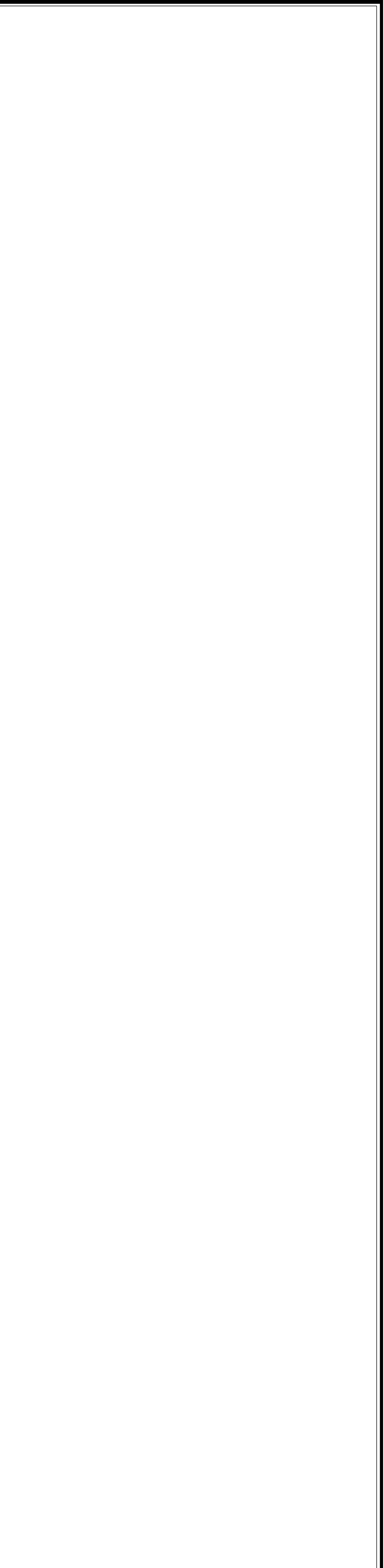


TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

GROUNDING  
 DETAILS

G-2

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**GENERAL NOTES**

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
8. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
9. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
10. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
11. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
12. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
13. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
14. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
15. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
16. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
17. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
18. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
19. THIS SITE IS THE LOCATION OF A PROTECT BIRD SPECIES SUCH AS OSPREY OR EAGLES. CONSTRUCTION ON THIS SITE WILL NOT TAKE PLACE UNLESS DURING MIGRATION SEASON OF THE PROTECT BIRD SPECIES. ALL SUCH CONSTRUCTION SHALL FOLLOW THE ESA (ENDANGERED SPECIES ACT) AND RESTRICTIVE FEDERAL GUIDELINES CONCERNING THE U.S. FISH AND WILDLIFE SERVICE FIELD OFFICE. PLEASE SEE THE EAGLE ACT FOR SPECIFICATIONS.

**STRUCTURAL NOTES**

**STRUCTURAL DESIGN CRITERIA:**

STRUCTURAL DESIGN IS BASED ON THE 2018 INTERNATIONAL BUILDING CODE.  
 LOCATION: PRINCE GEORGE'S COUNTY  
 CONSTRUCTION MATERIAL SELF WEIGHT PER ASCE 7-16  
 ULTIMATE WIND SPEED: 113 MPH  
 RISK CATEGORY: II  
 EXPOSURE CATEGORY: C  
 TOPOGRAPHIC CATEGORY: 1

1. THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:  
 A. AISC - "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".  
 B. AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".  
 C. AWS - "D1.1 STRUCTURAL WELDING CODE - STEEL".
2. MATERIAL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS  
 STRUCTURAL WIDE FLANGE & M SHAPES A992 OR A572  
 Fy = 50KSI  
 OTHER STRUCTURAL SHAPES AND PLATES A36  
 Fy = 36 KSI  
 STRUCTURAL TUBING A500, GRADE B  
 Fy = 46 KSI  
 HIGH STRENGTH BOLTS A325  
 THREADED RODS A354, GRADE BC  
 ANCHOR BOLTS A325 OR A354 BC  
 PIPE (HANDRAIL) SCH 40 PIPE
3. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.
4. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED. ALL HOLES IN BEARING PLATES SHALL BE DRILLED.
5. ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
6. ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
7. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.
8. THE FABRICATOR SHALL FURNISH CHECKED SHOP AND ERECTION DRAWINGS TO THE ENGINEER, AND OBTAIN APPROVAL PRIOR TO FABRICATING ANY STRUCTURAL STEEL. SHOP DRAWINGS SHALL CONFORM TO AISC "DETAILING FOR STEEL CONSTRUCTION".

**WOOD:**

1. DESIGN, MODIFICATION, FABRICATION AND CONSTRUCTION OF WOOD FRAMING SHALL CONFORM WITH "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" 2018 EDITION (WITH SUPPLEMENT), AMERICAN FOREST AND PAPER ASSOCIATION.
2. ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIAL SHALL BE IN ACCORDANCE WITH THE "SCHEDULE OF REQUIRED STRESS VALUES".
3. ALL JOIST, RAFTERS & MISC FRAMING SHALL BE SOUTHERN PINE NO.2, PRESSURE TREATED. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN.
4. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVES ASSOCIATIONS SPECIFICATIONS WHERE POSSIBLE. ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWWA STD. M4).
5. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) & THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
6. PROVIDE DOUBLE JOISTS UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
7. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS & NUTS IN CONTACT WITH WOOD SURFACES.
8. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTION SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
9. PREFABRICATED METAL, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONT-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURERS REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF A 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).
10. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF IBC 2018.
11. PROVIDE NAILING PATTERN IN COMPLIANCE WITH IBC RECOMMENDED FASTENING SCHEDULE WHEN JOINING TWO OR MORE FRAMING MEMBERS.
12. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.

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SITE INFORMATION

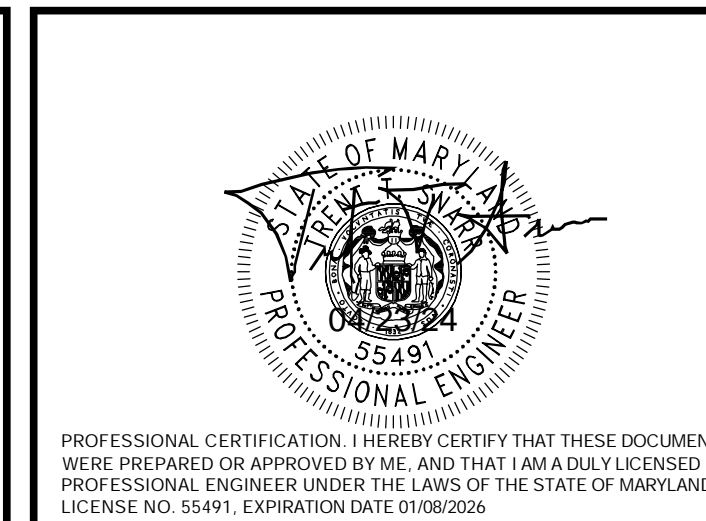
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 PRINCE GEORGE'S COUNTY

DESIGN RECORD

**REVISIONS**

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP

PROFESSIONAL STAMP



ENGINEER

TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
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SHEET TITLE

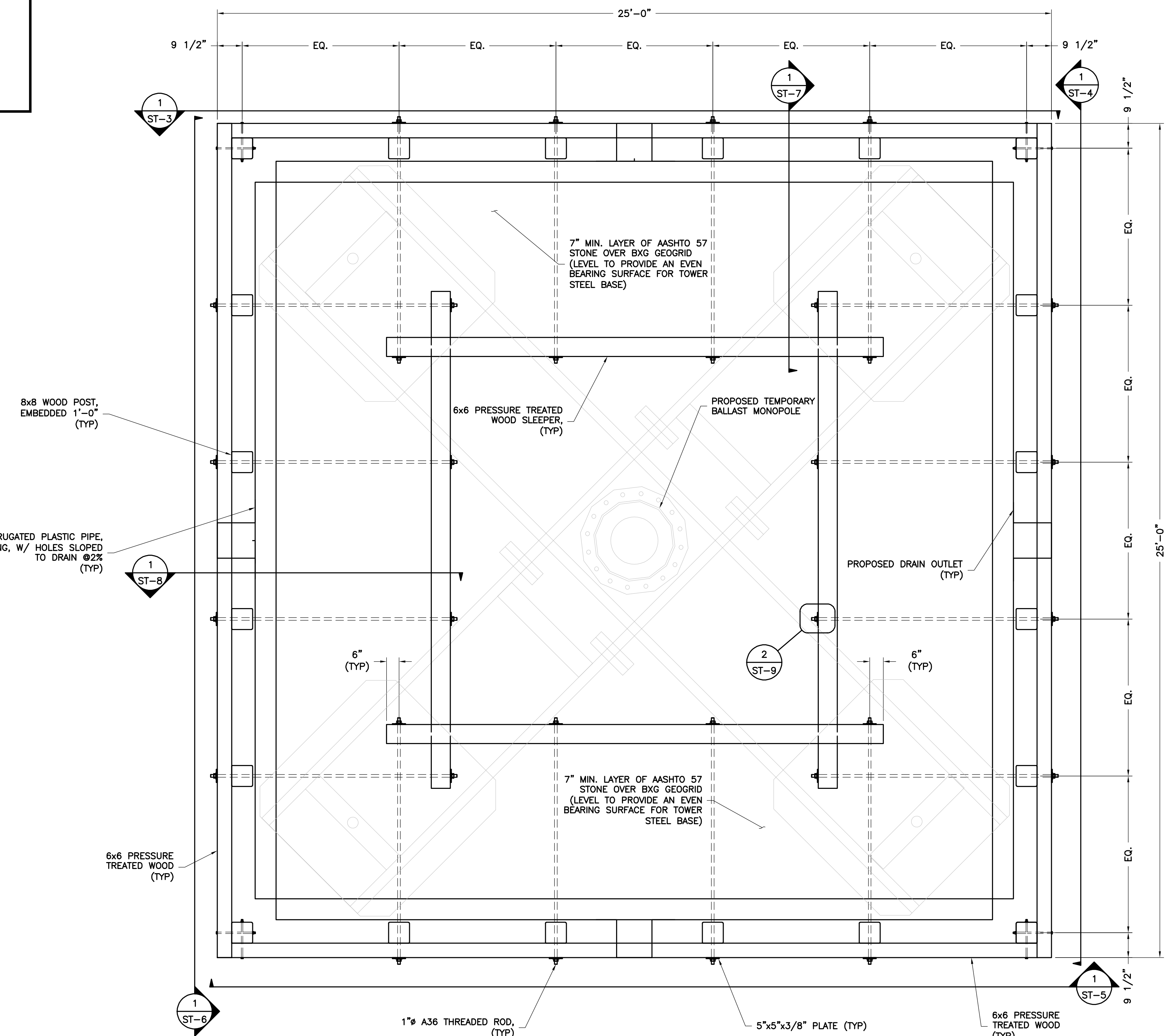
GENERAL NOTES

SHEET NUMBER

N-1

**DPIE APPROVAL STAMP BLOCK**





1  
ST-1  
RETAINING WALL PLAN VIEW  
SCALE: 1/2" = 1'-0"

ALL HARDWARE ASSEMBLY AND MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED; ANY CONTRADICTION BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS ARE TO BE BROUGHT IMMEDIATELY TO THE ATTENTION OF NB+C ES.

\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.

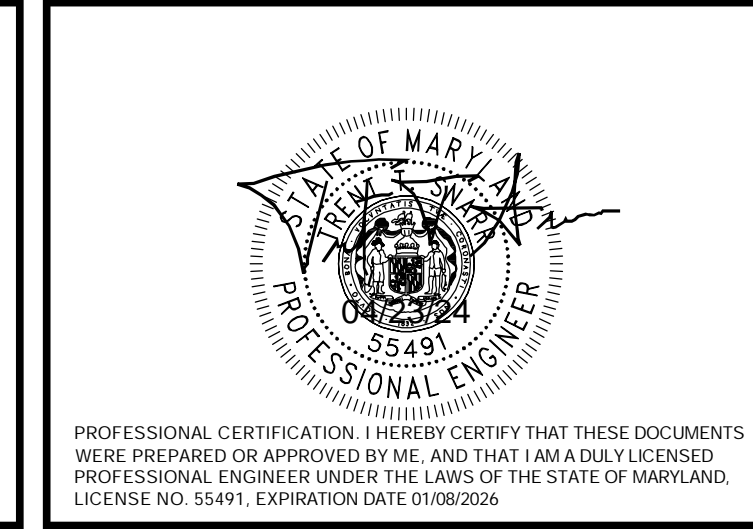
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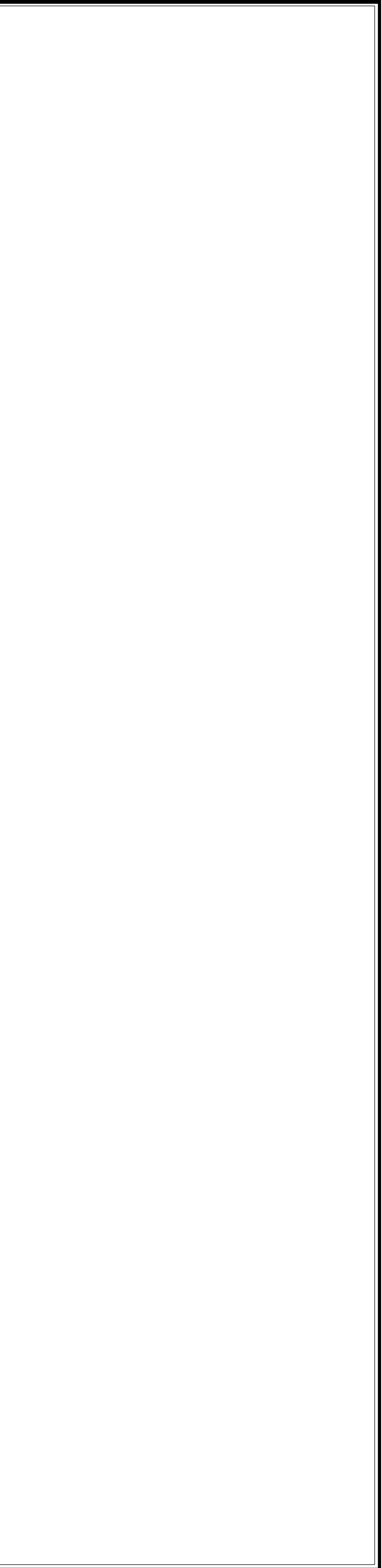


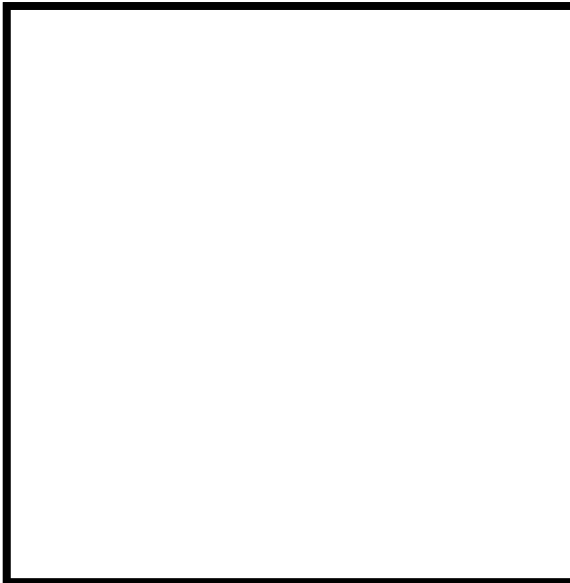
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RETAINING WALL  
PLAN VIEW

ST-1

DPIE APPROVAL STAMP BLOCK



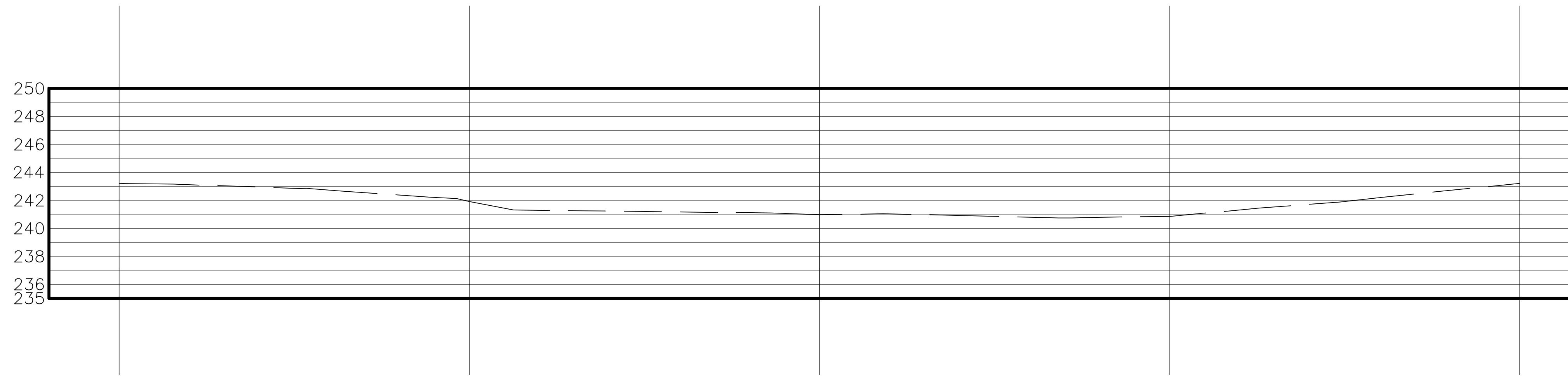


EAST SIDE

NORTH SIDE

WEST SIDE

SOUTH SIDE



1 EXISTING GRADING PROFILE  
 ST-2 SCALE: 1/8" = 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.

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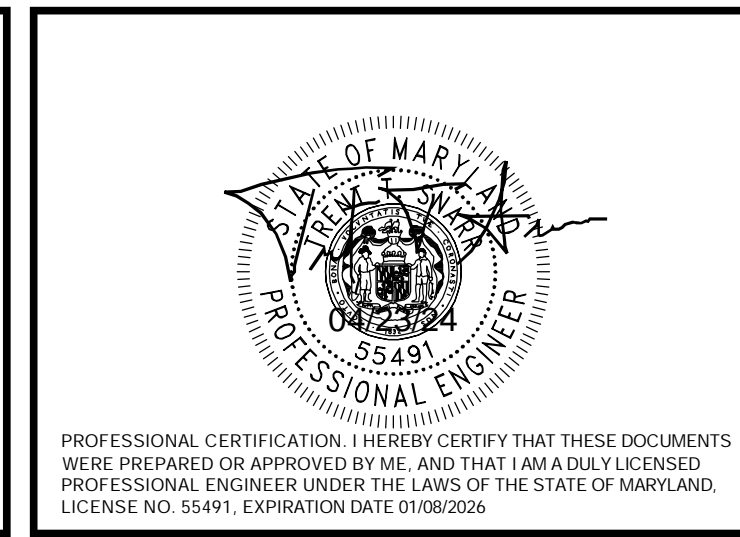
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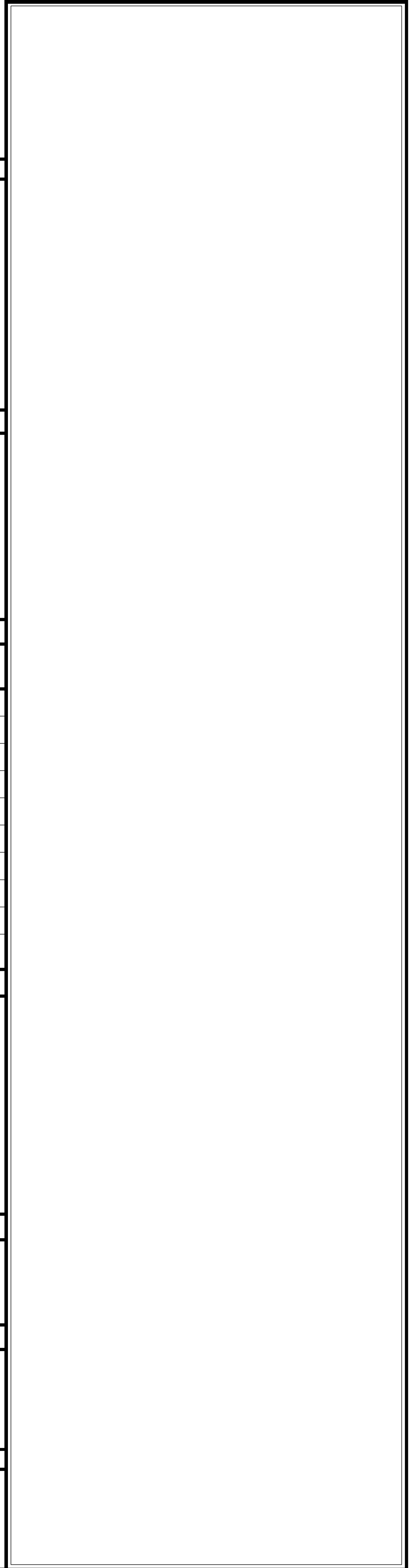
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 GRADING PROFILE

SHEET NUMBER

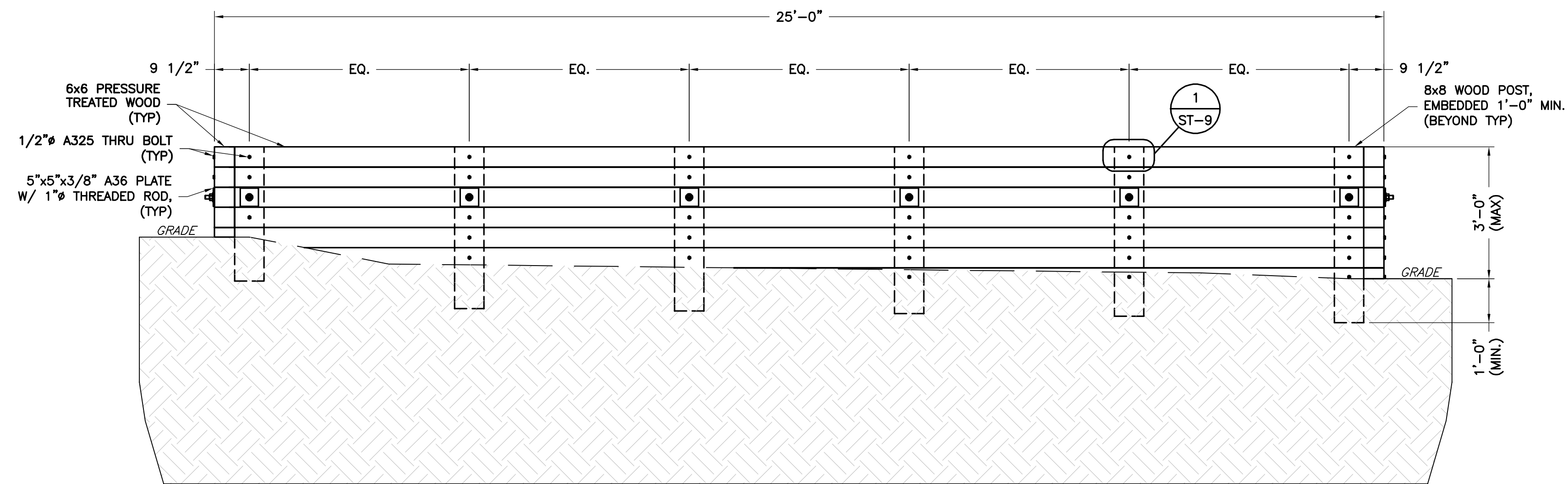
ST-2

DPIE APPROVAL STAMP BLOCK





\*\*NOTE: 8" PVC PIPE NOT SHOWN FOR CLARITY.



**1** RETAINING WALL ELEVATION - NORTH WALL  
 ST-3 SCALE: 1/2" = 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.

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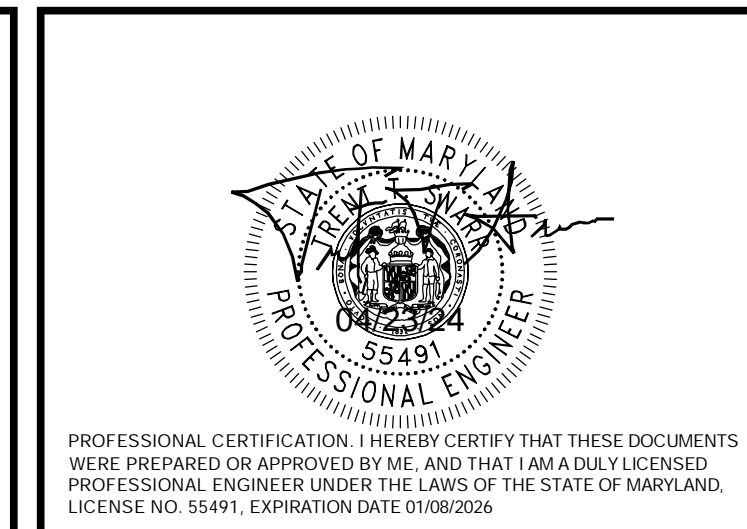
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TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

SHEET TITLE

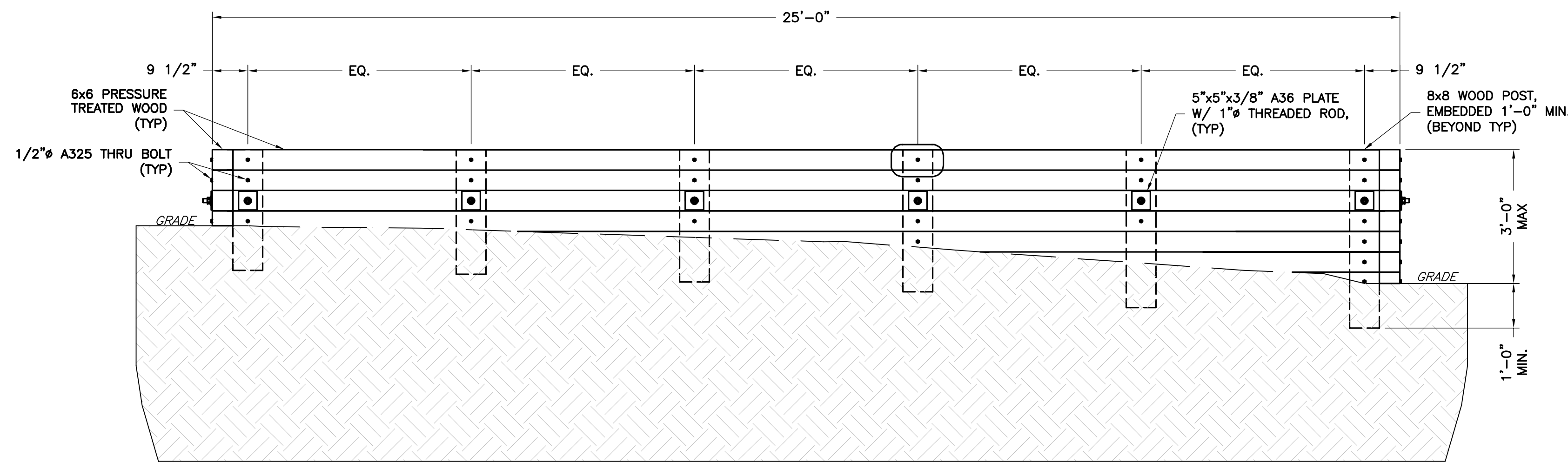
RETAINING WALL ELEVATION

SHEET NUMBER

ST-3

DPIE APPROVAL STAMP BLOCK

**\*\*NOTE: 8" PVC PIPE NOT SHOWN FOR CLARITY.**



1  
ST-4 **RETAINING WALL ELEVATION - EAST WALL**  
SCALE: 1/2" = 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

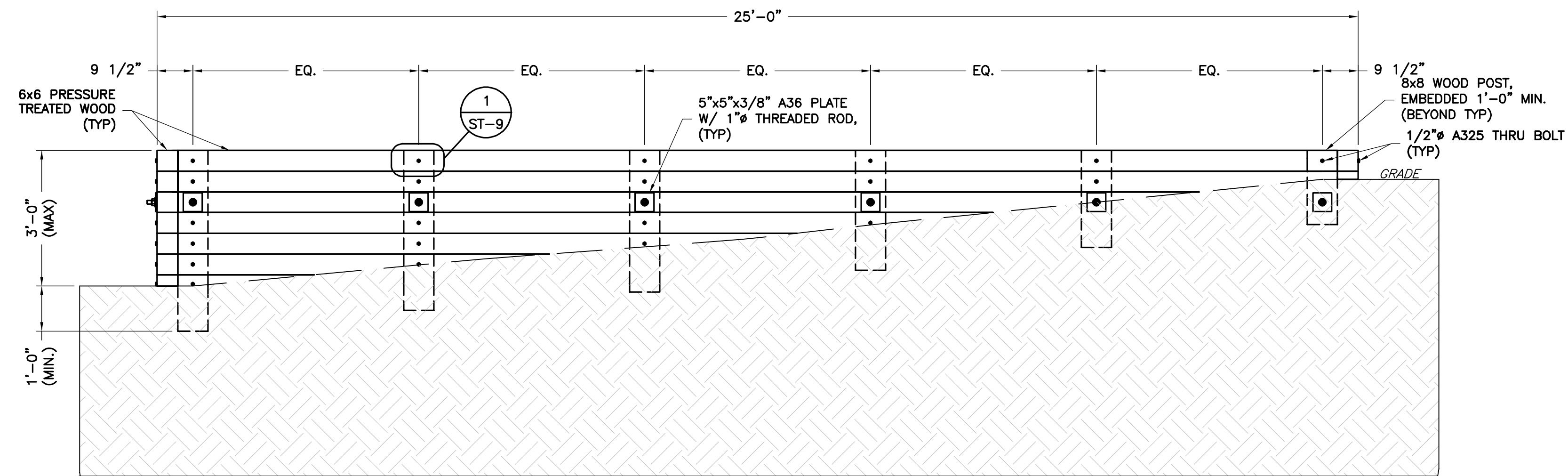
**\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.**

ALL HARDWARE ASSEMBLY AND MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED; ANY CONTRADICTION BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS ARE TO BE BROUGHT IMMEDIATELY TO THE ATTENTION OF NB+C ES.

APPLICANT	<p>T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	DPIE APPROVAL STAMP BLOCK							
	<p>NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092</p>								
ENGINEER	<p>7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY</p>								
SITE INFORMATION									
DESIGN RECORD	<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>04/23/24</td> <td>FINAL DRAWINGS</td> <td>DSP</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	04/23/24	FINAL DRAWINGS	DSP
REV	DATE	DESCRIPTION	BY						
0	04/23/24	FINAL DRAWINGS	DSP						
PROFESSIONAL STAMP	<p>PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55491, EXPIRATION DATE 01/08/2026</p>								
ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>								
SHEET TITLE	<p><b>RETAINING WALL ELEVATION</b></p>								
SHEET NUMBER	<p><b>ST-4</b></p>								



**\*\*NOTE: 8" PVC PIPE NOT SHOWN FOR CLARITY.**



**1** RETAINING WALL ELEVATION - SOUTH WALL  
 ST-5 SCALE: 1/2" = 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

**\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.**

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APPLICANT

**T-Mobile**  
 T-MOBILE NORTHEAST LLC  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

ENGINEER

**NB+C**  
 NB+C ENGINEERING SERVICES, LLC.  
 6095 MARSHALEE DRIVE, SUITE 300  
 ELK RIDGE, MD 21075  
 (410) 712-7092

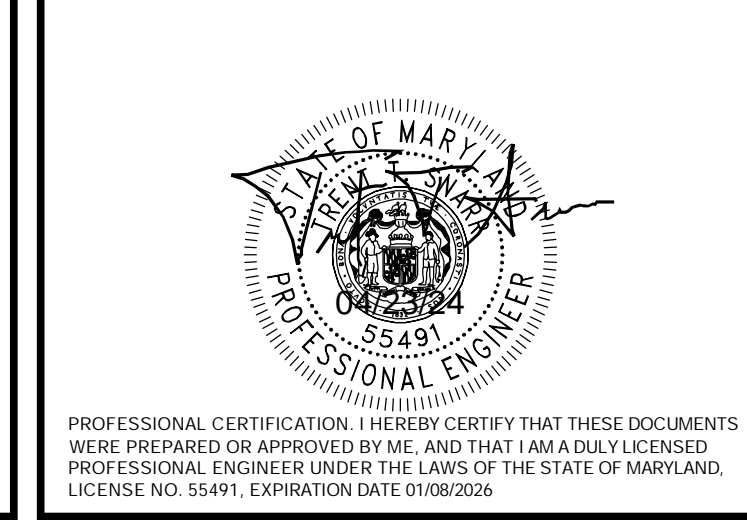
SITE INFORMATION

7WAS088A  
 WSSC-GREENBELT  
 211 RIDGE RD  
 GREENBELT, MD 20770  
 PRINCE GEORGE'S COUNTY

DESIGN RECORD

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP

PROFESSIONAL STAMP



ENGINEER

TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

SHEET TITLE

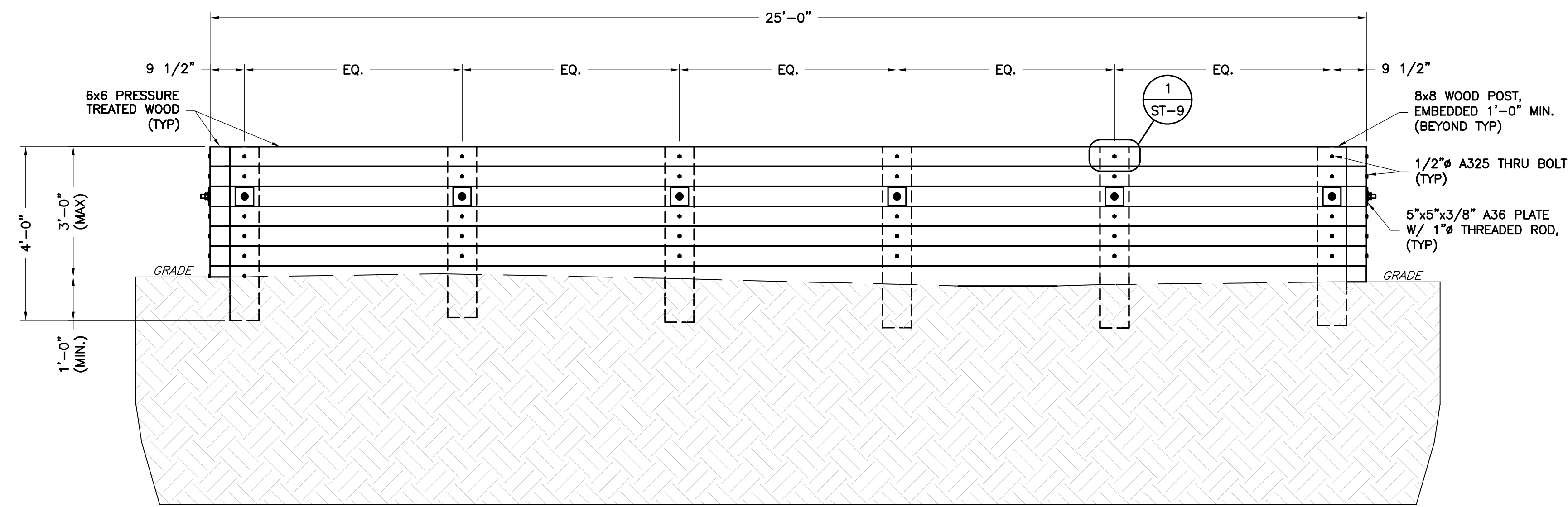
RETAINING WALL ELEVATION

SHEET NUMBER

ST-5

DPIE APPROVAL STAMP BLOCK

**\*\*NOTE: 8" PVC PIPE NOT SHOWN FOR CLARITY.**



**1**  
ST-6 **RETAINING WALL ELEVATION - WEST WALL**  
SCALE: 1/2" = 1'-0"

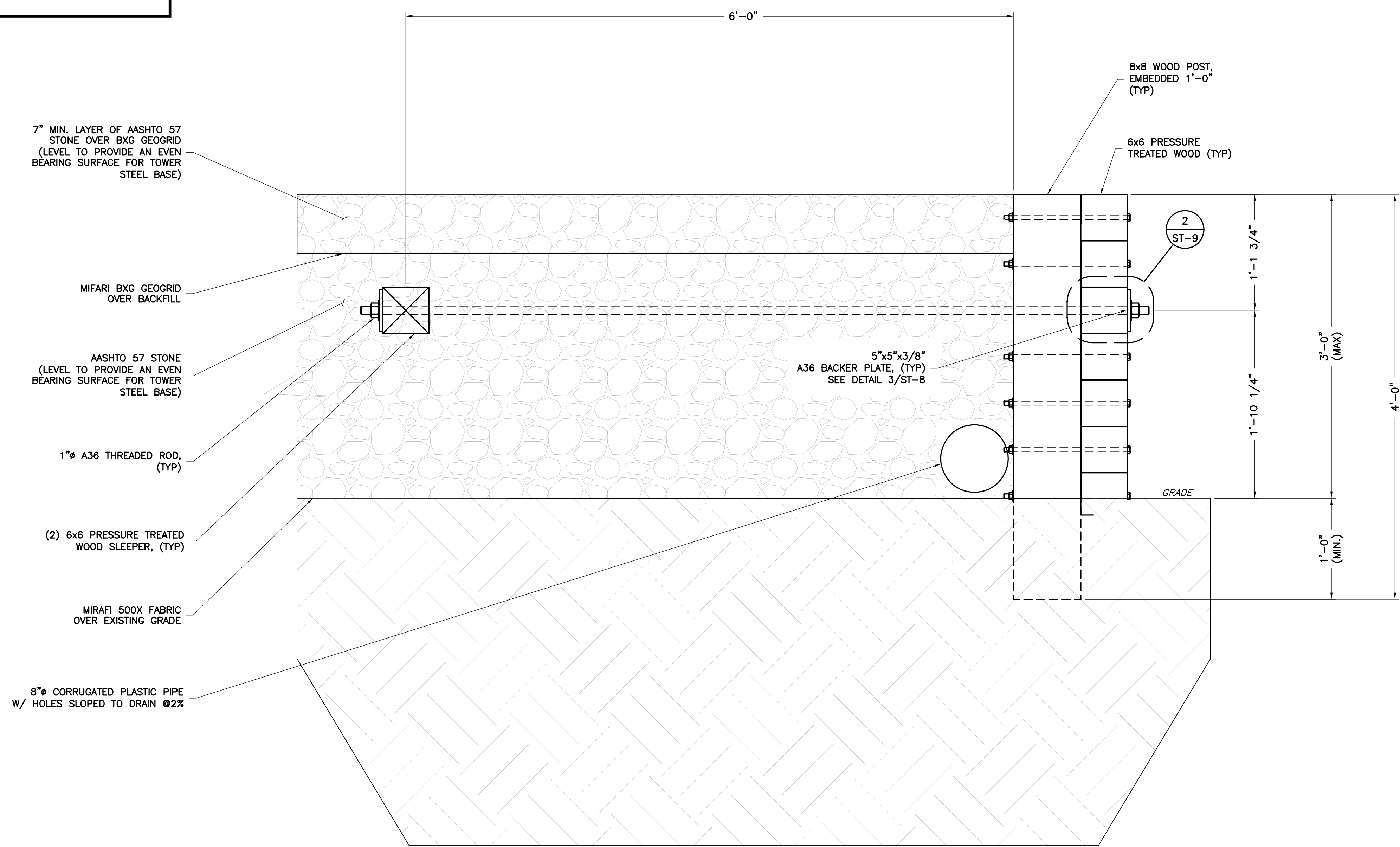
CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

**\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.**

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ENGINEER	<p>TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491</p>															
SHEET TITLE	<p>RETAINING WALL ELEVATION</p>															
SHEET NUMBER	<p>ST-6</p>															





1 NORTH & SOUTH RETAINING WALL SIDE ELEVATION  
 ST-7 SCALE: 1-1/2"= 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

\*\*NOTE: ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 PRESSURE TREATED OR BETTER.

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ENGINEER	<p>NB+C ENGINEERING SERVICES, LLC.          6096 MARSHALEE DRIVE, SUITE 300          ELK RIDGE, MD 21075          (410) 712-7092</p>												
SITE INFORMATION	<p>7WAS088A          WSSC-GREENBELT          211 RIDGE RD          GREENBELT, MD 20770          PRINCE GEORGE'S COUNTY</p>												
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ENGINEER	<p>TRENT TRAVIS SNARR, P.E.          MARYLAND PROFESSIONAL ENGINEER          LICENSE #55491</p>												
SHEET TITLE	<p>RETAINING WALL          SIDE ELEVATION</p>												
SHEET NUMBER	<p>ST-7</p>												

7" MIN. LAYER OF AASHTO 57 STONE OVER BXG GEOGRID (LEVEL TO PROVIDE AN EVEN BEARING SURFACE FOR TOWER STEEL BASE)

MIFARI BXG GEOGRID OVER BACKFILL

AASHTO 57 STONE (LEVEL TO PROVIDE AN EVEN BEARING SURFACE FOR TOWER STEEL BASE)

1"Ø A36 THREADED ROD, (TYP)

(2) 6x6 PRESSURE TREATED WOOD SLEEPER, (TYP)

MIRAFI 500X FABRIC OVER EXISTING GRADE

8"Ø CORRUGATED PLASTIC PIPE W/ HOLES SLOPED TO DRAIN @2%

8x8 WOOD POST, EMBEDDED 1'-0" (TYP)

6x6 PRESSURE TREATED WOOD (TYP)

2 ST-9

5"x5"x3/8" A36 BACKER PLATE, (TYP) SEE DETAIL 3/ST-8




GRADE

1 EAST & WEST RETAINING WALL SIDE ELEVATION  
ST-8 SCALE: 1-1/2= 1'-0"

CONTRACTOR TO TRIM 6x6 PRESSURED TREAT WOOD AS REQUIRED TO MATCH TOPOGRAPHY.

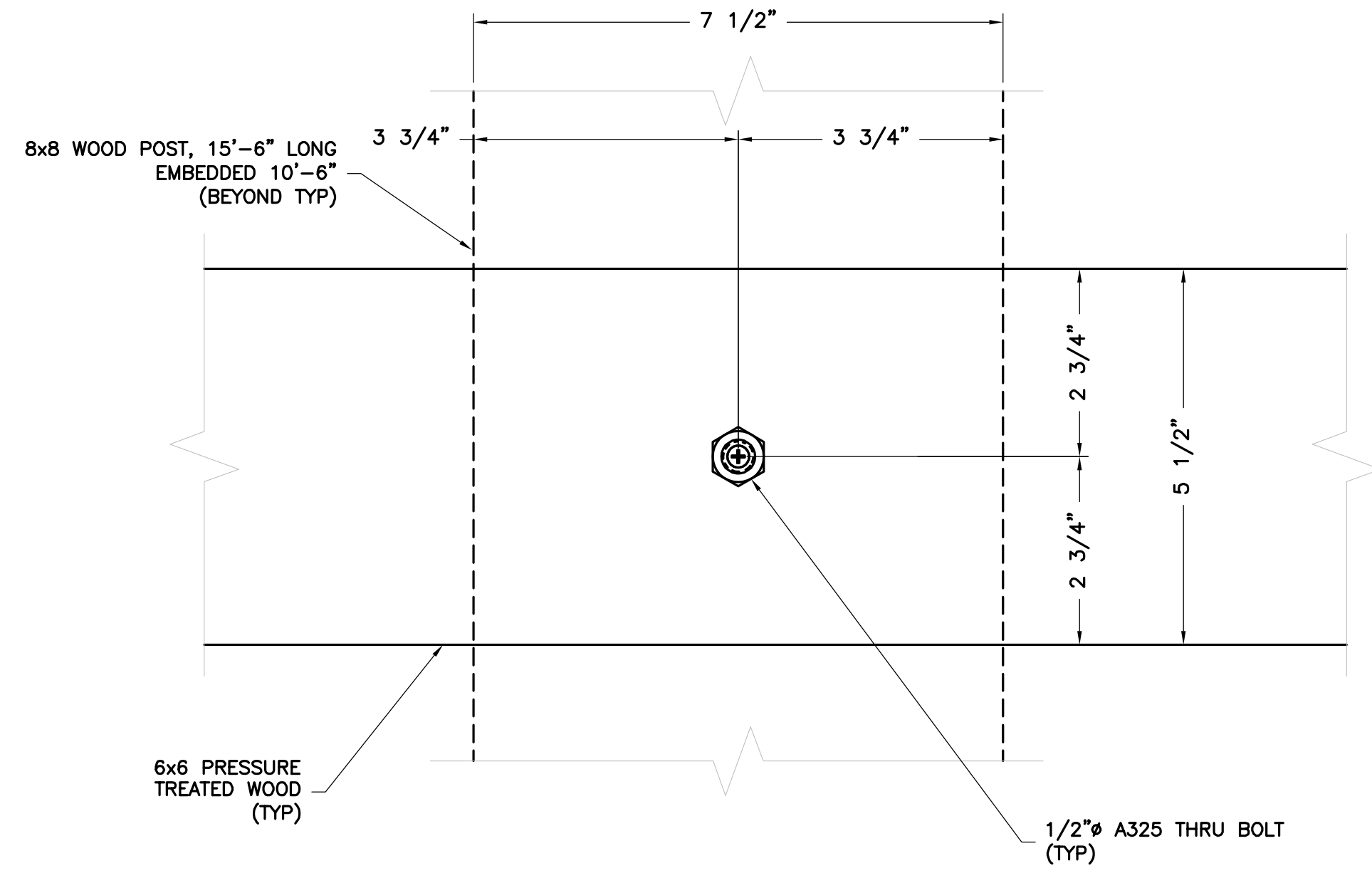
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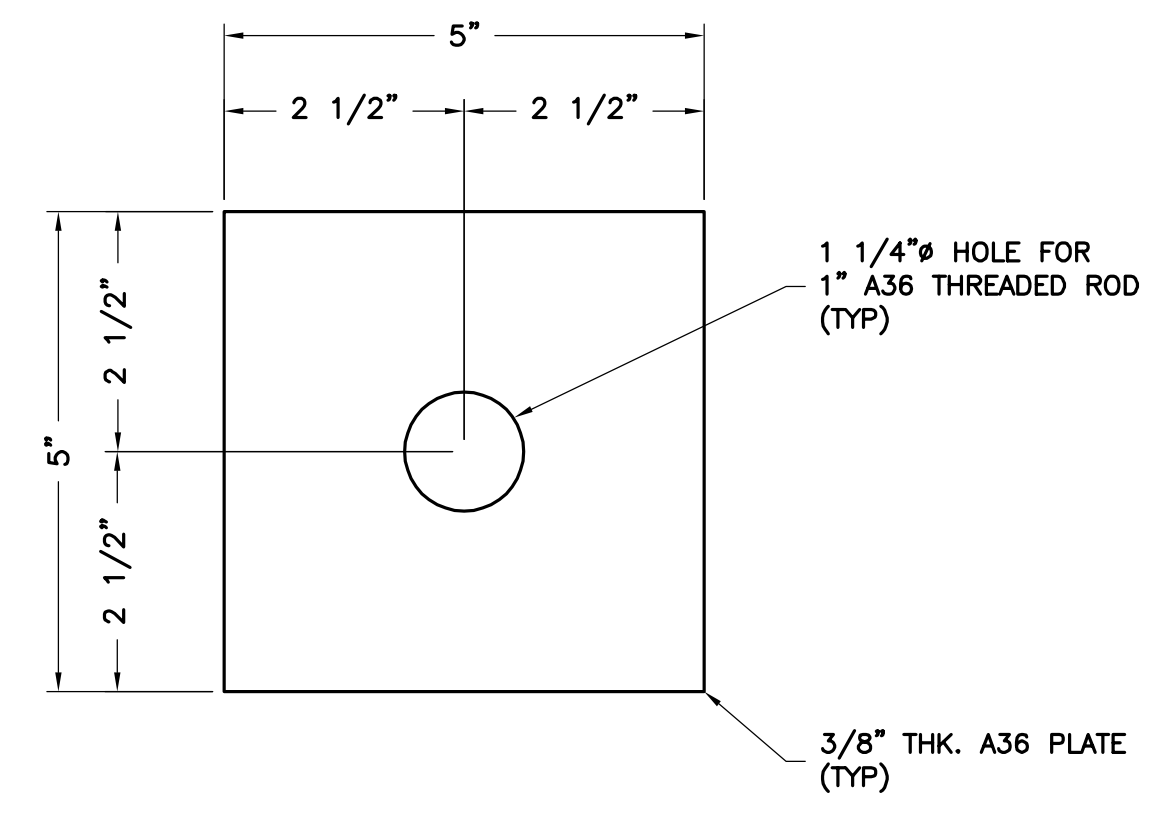
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ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491			
SHEET TITLE	RETAINING WALL SIDE ELEVATION			
SHEET NUMBER	ST-8			
DPIE APPROVAL STAMP BLOCK				






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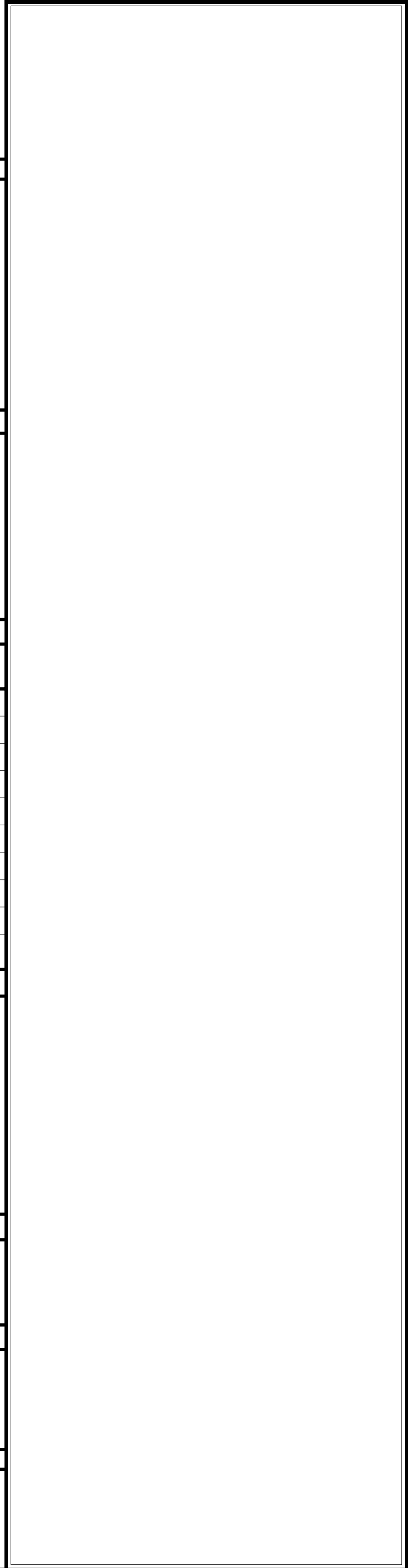
**2 WOOD HORIZ. TO POST CONN. DETAIL**  
SCALE: 6" = 1'-0"



**3 BACKER PLATE DETAIL**  
SCALE: 6" = 1'-0"

APPLICANT	 T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610											
	ENGINEER	 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092										
SITE INFORMATION		7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY										
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	ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491										
SHEET TITLE	<p style="text-align: center;"><b>CONNECTION DETAILS</b></p>											
SHEET NUMBER	<p style="text-align: center;"><b>ST-9</b></p>											

DPIE APPROVAL STAMP BLOCK



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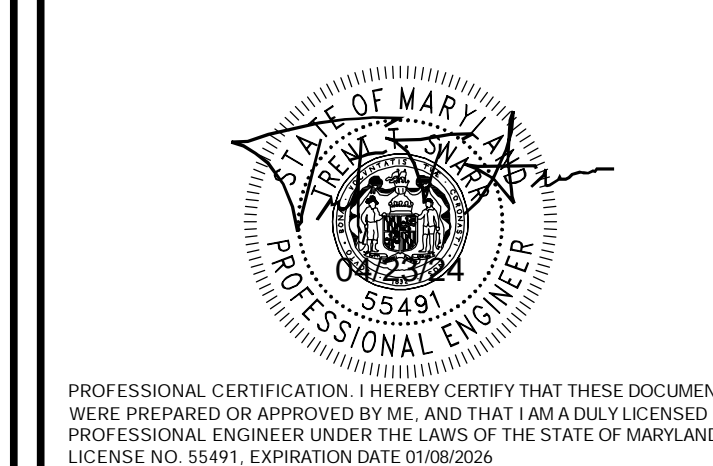
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**NB+C**  
 NB+C ENGINEERING SERVICES, LLC.  
 6095 MARSHALEE DRIVE, SUITE 300  
 ELK RIDGE, MD 21075  
 (410) 712-7022

7WAS088A  
 WSSC-GREENBELT  
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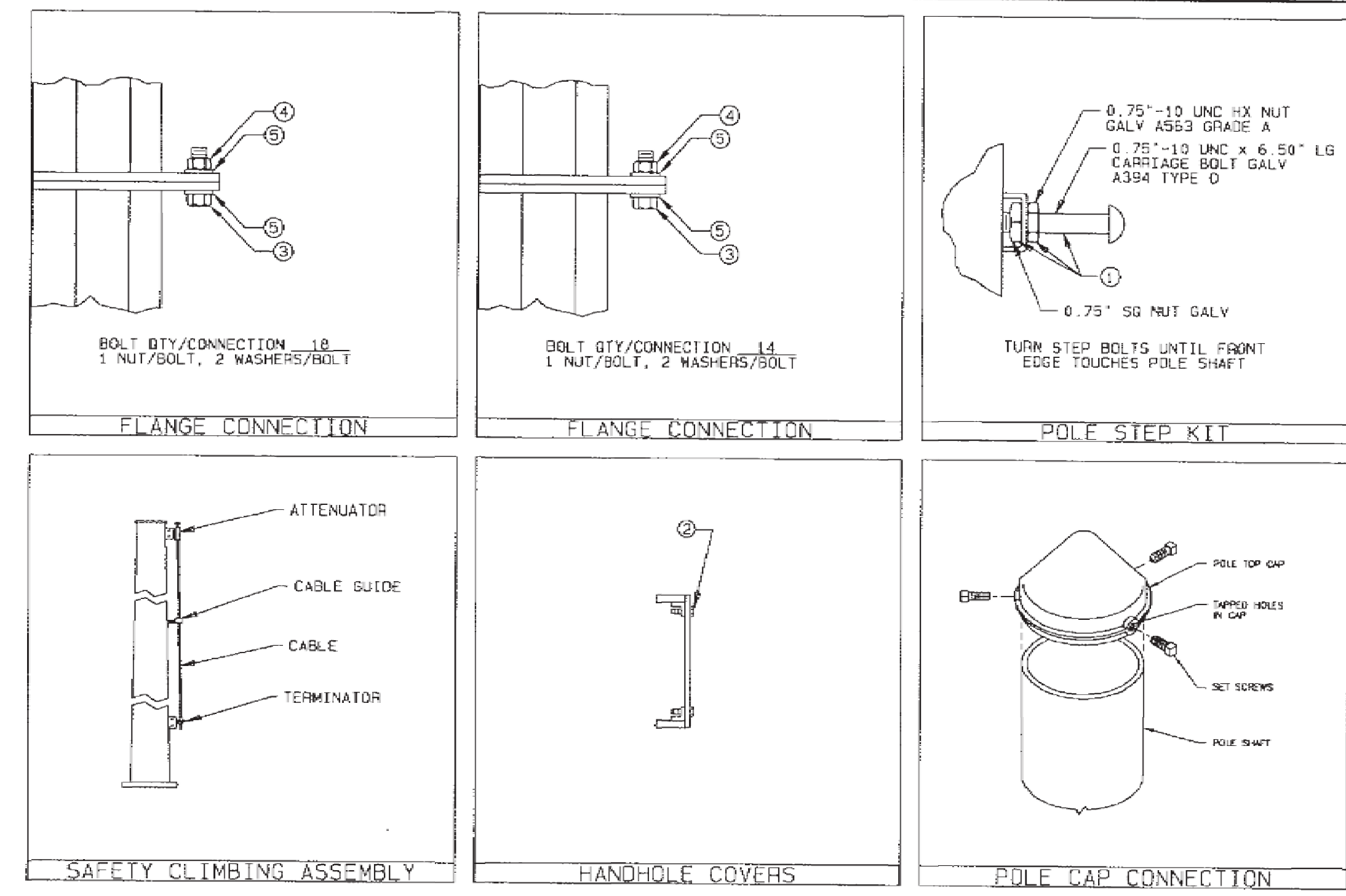
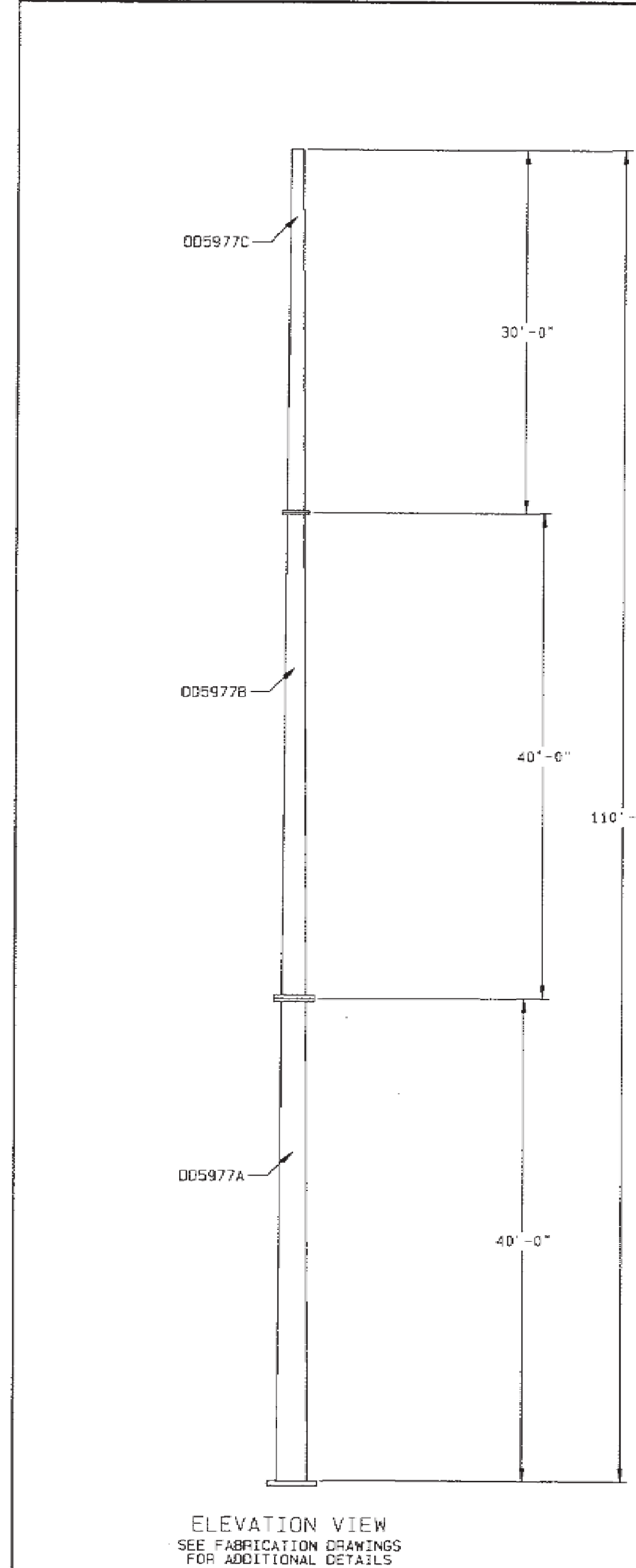


TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

TOWER DESIGN

APPENDIX

APPLICANT  
 ENGINEER  
 SITE INFORMATION  
 DESIGN RECORD  
 PROFESSIONAL STAMP  
 ENGINEER  
 SHEET TITLE  
 SHEET NUMBER



- NOTES:
- POLE SHAFT-GOVERNING REACTIONS:  
 FACTORED MOMENT = 5,244 IN-KIPS  
 FACTORED SHEAR = 5,442 #  
 FACTORED VERTICAL = 7,095 #
  - COMPONENT IDENTIFICATION TAG LOCATIONS ARE INDICATED BY CALLOUTS ON DRAWING. SUBSEQUENT DIGITS WILL INDICATE SEQUENCE MANUFACTURED
  - ASSEMBLY AND ERECTION GUIDELINES: SEE VALMONT COMMUNICATION POLE INSTALLATION GUIDELINE 1012.
  - FINISH: GALVANIZED PER ASTM A-123.
  - POLE DESIGN CONFORMS TO ANSI/TIA-222-G ADDENDUM EXPOSURE CATEGORY = C  
 STRUCTURE CLASSIFICATION = 2  
 TOPOGRAPHY CATEGORY = 1  
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS = 0.20  
 93 MPH WIND (3 SECOND GUST, 50 YEAR RETURN)  
 40 MPH ICE AND WIND (50 YEAR RETURN PERIOD)  
 DESIGN ICE THICKNESS = 0.50 INCHES  
 60 MPH WIND WITH NO ICE, TWIST AND SHAY.
  - DESIGN LOADINGS:  
 FUTURE DESIGN INDICATED BY \*  
 3-AIR 21 @ 102'  
 3-36" STANDOFF @ 102'  
 3-AIR 21 @ 102'  
 3-36" STANDOFF @ 102'

BILL OF MATERIAL (SHIPPING SEQ = 1 FOR ALL)

VALMONT PART NUMBER	DESCRIPTION	UNIT	QTY
005977A	SECTION ASSEMBLY	2,650	1
005977B	SECTION ASSEMBLY	1,950	1
005977C	SECTION ASSEMBLY	1,050	1
ABLD100	SAFETY CLIMB ASSEMBLY	39	1
CBM2615	LIGHTNING ROD KIT 4'-7"	25	1
AC15609	24' PORTABLE MONOPOLE BASE	12,294	1
AC15610	WEIGHT FOR PORTABLE MP BASE	3,600	24
BC20020	LWRM TRI-BRACKET	264	1
BC23519	MM3 36" STANDOFF ARM	47	3
AC15036	P263 2" X 63" PIPE	19	3

MISCELLANEOUS

VALMONT PART NUMBER	DESCRIPTION	QTY
AC14209	HANDHOLE COVER PLATE (6 x 12)	4
AC14198	HANDHOLE COVER PLATE (6 x 16)	6
2190A	FINAL CAP	4

VALMONT PART NUMBER	DESCRIPTION	QTY
1	2136A BOLT	84
2	164035 NUT	19
3	161107 WSHR	32
4	131188 STEP KIT	32
5	141183 SH LOCK	64

\* PER ASTM A325-91C, EXCLUDE SECTIONS 6, 3 & 9, 2

SHAFT INFO

SEC	LENGTH	BASE OD	TOP OD	THK	MAT
A	40'-00"	30.00"	23.46"	0.188"	S-22
B	40'-00"	23.43"	16.93"	0.188"	S-22
C	30'-00"	16.89"	12.00"	0.188"	S-22

DUPLICATE DRAWING DISTRIBUTION

REV	DATE	REV BY	CHK BY	REVISION DESCRIPTION	MATERIAL	THICKNESS	WEIGHT
1	04/23/24	TRENT	TRENT	ISSUE FOR T-MOBILE	110' POLE		104,820#



APPLICANT

ENGINEER

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER



NB+C ENGINEERING SERVICES, LLC.  
6096 MARSHLEE DRIVE, SUITE 300  
ELK RIDGE, MD 21075  
(410) 712-7022

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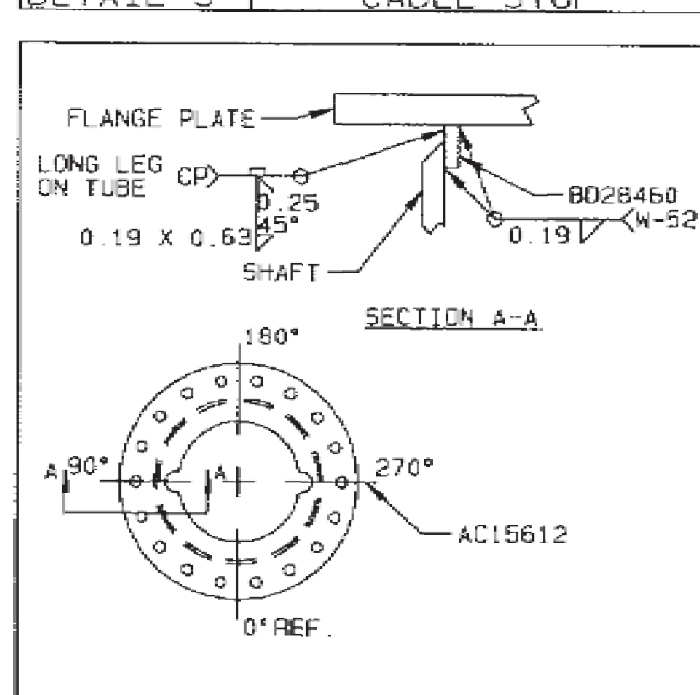
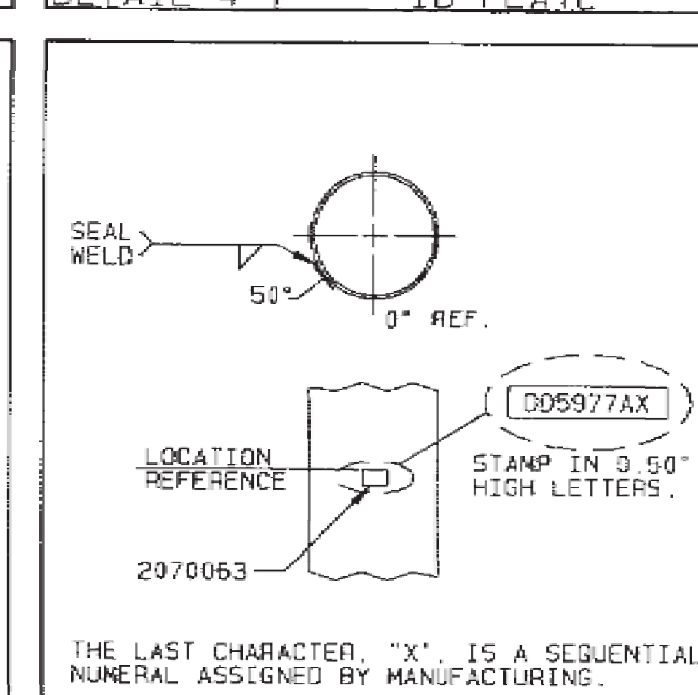
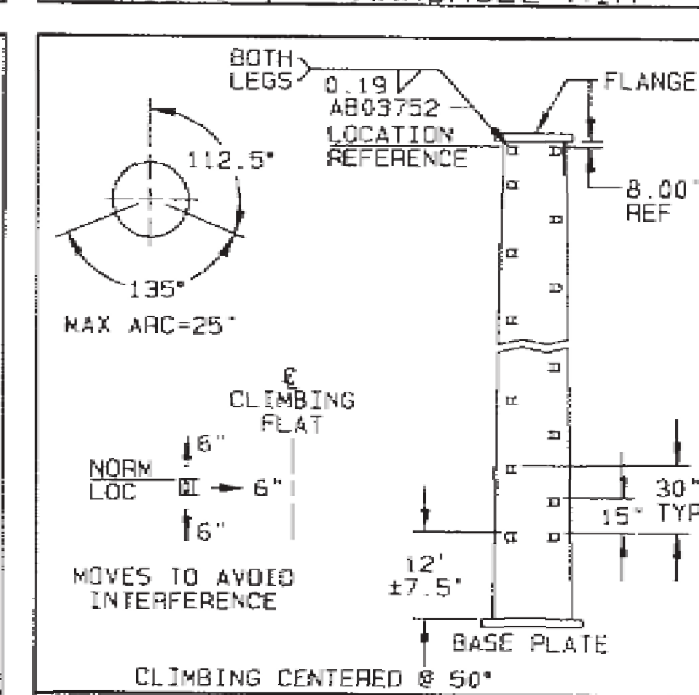
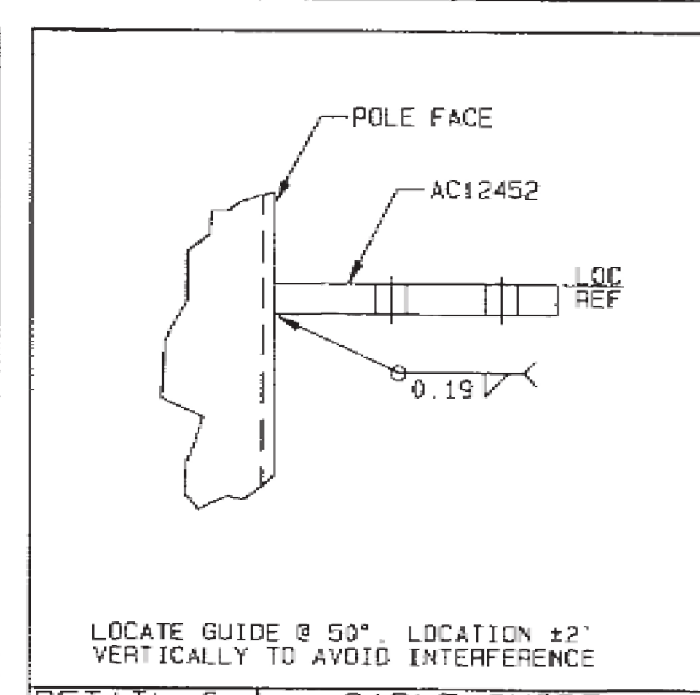
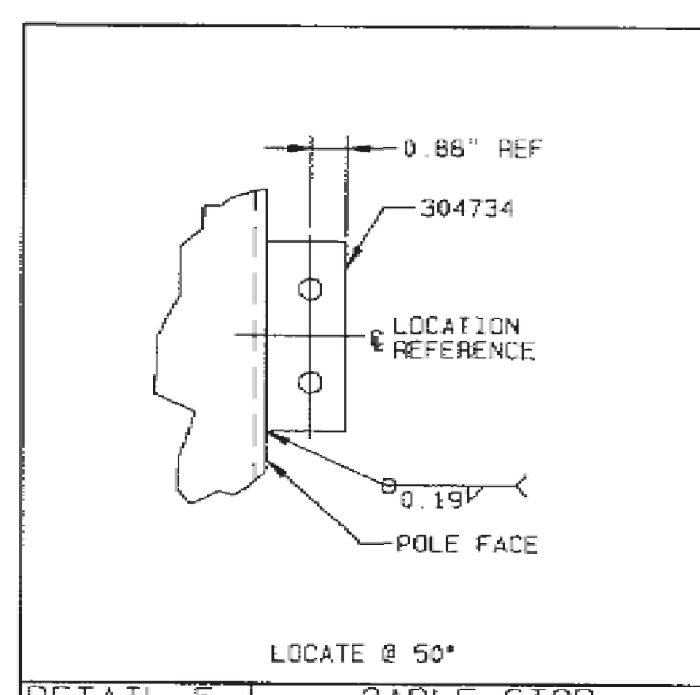
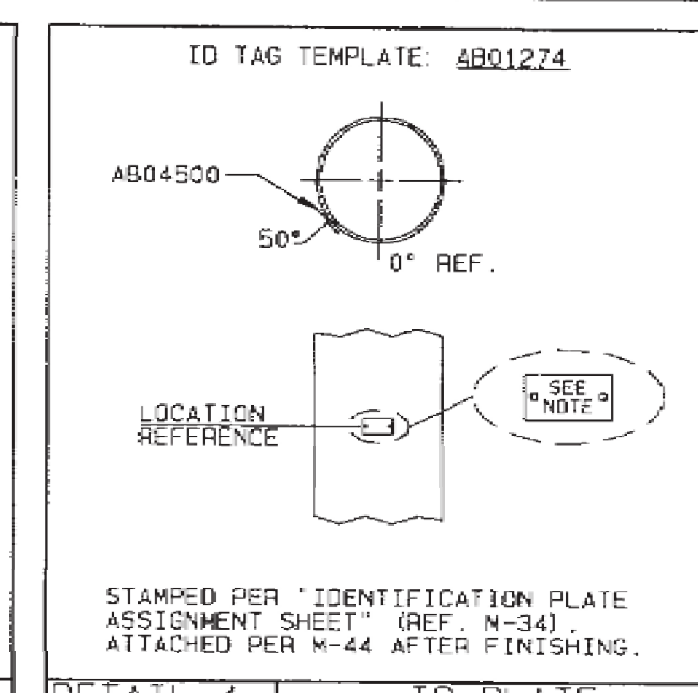
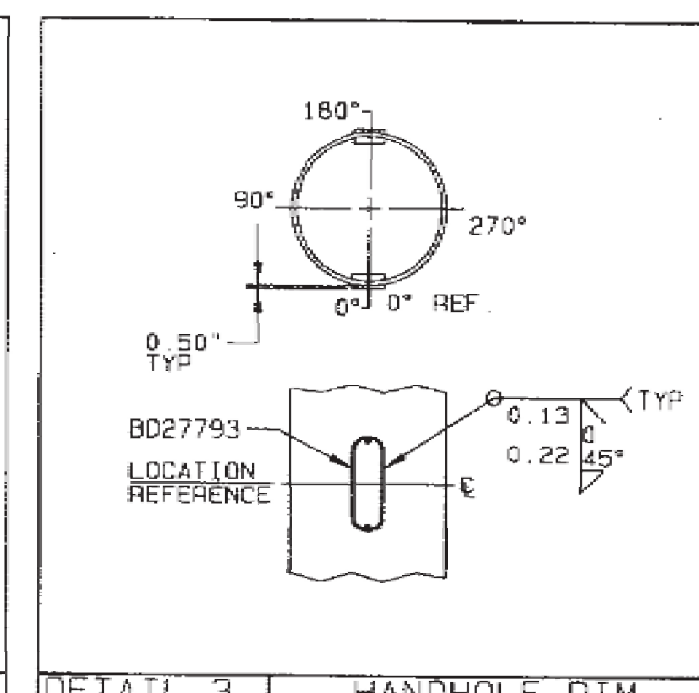
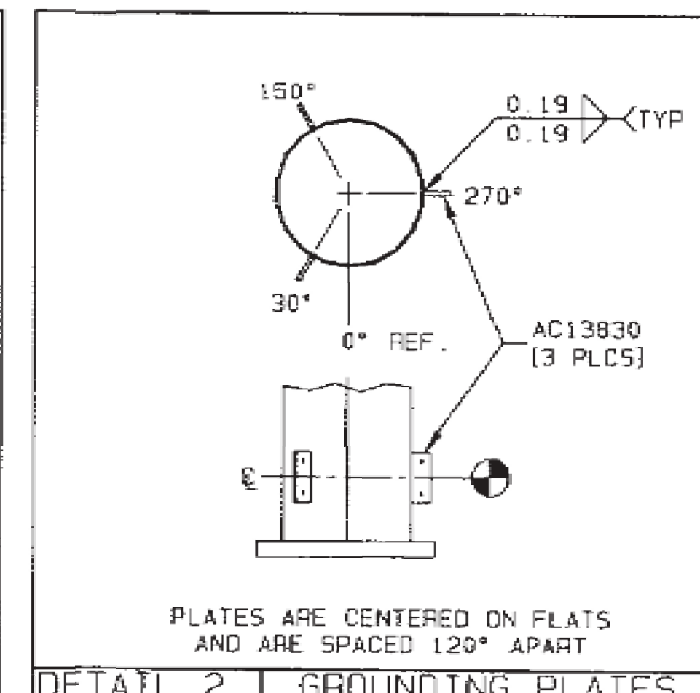
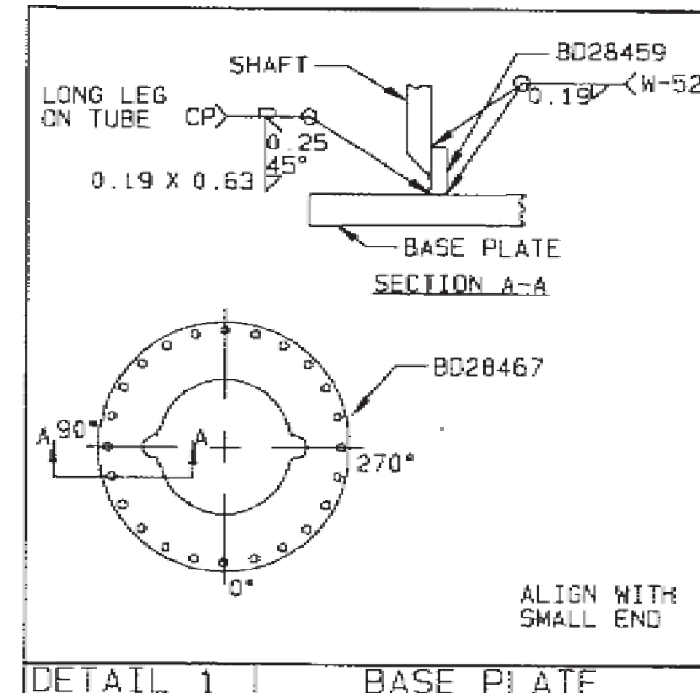
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TRENT TRAVIS SNARR, P.E.  
MARYLAND PROFESSIONAL ENGINEER  
LICENSE #55491

TOWER DESIGN

APPENDIX

LOCATION DIMENSION			
FROM LARGE END	FROM SMALL END	TOLERANCES BLANK = M-F	DETAIL
	0'-0.00"		9
	0'-6.00"		8
	0'-8.00"		7
	3'-0.00"		6
	12'-0.00"		5
	5'-0.00"		4
	4'-0.00"		3
	1'-2.00"		2
	0'-0.00"		1



BILL OF MATERIAL (SHIP SEQ=0)		
VALMONT PART NO.	DESCRIPTION	QTY PER ASSY.
BD26461	SHAFT	1
BD26458	BACK-UP-RING	2
BD26467	BASE PLATE	1
AC13830	GROUND PLATE	3
BD27793	HANDHOLE RIM	2
AB01274	ID TAG TEMPLATE	0
304734	CABLE STOP	1
AC12452	CABLE GUIDE	1
AB03752	STEP LUG	24
2070063	IDENT TAG	1
AC15612	FLANGE	1
BD26450	BACK-UP-RING	2
POST-FINISHING ATTACHMENTS		
SEE DETAIL (S) 4	(SHIP SEQ=2)	
AB04500	ID PLATE	1

DUPLICATE DRAWING DISTRIBUTION		TIME, SEC. ASSY. 30' BO. 23' TO 40' - 0' LG#29930	
DWG SIZE	D	CLASS CODE (1)	CLASS NO. (3) 400

REV	DATE	REV BY	CHK BY	REVISION DESCRIPTION	MATERIAL	THICKNESS	WEIGHT

ORDER NO.	CUSTOMER	DESCRIPTION	DWG NO.
299307	T-MOBILE	SECTION ASSEMBLY	005977A

NOTES:  
1. LOCATE SEAM WELD AT 40°. ALL MEASUREMENTS ARE CLOCKWISE WHEN VIEWED FROM THE SMALL END.  
2. ALL CROSS SECTION VIEWS ARE FROM SMALL END OF TUBE.  
3. POLE TUBE DATA REF. MATERIAL = S-22  
TUBE END OD (IN) THICKNESS  
LENGTH LARGE SMALL (IN)  
39'-10.00' 30.00' 23.48' 0.188  
TUBE DIAMETERS MEASURED ACROSS FLATS.





**T-Mobile**  
 T-MOBILE NORTHEAST LLC  
 12050 BALTIMORE AVENUE  
 BELTSVILLE, MD 20705  
 OFFICE: (240) 264-8600  
 FAX: (240) 264-8610

DPIE APPROVAL STAMP BLOCK

APPLICANT

ENGINEER

**NB+C**  
 NB+C ENGINEERING SERVICES, LLC.  
 6096 MARSHLEE DRIVE, SUITE 300  
 ELK RIDGE, MD 21075  
 (410) 712-7022

SITE INFORMATION

7WAS088A  
 WSSC-GREENBELT  
 211 RIDGE RD  
 GREENBELT, MD 20770  
 PRINCE GEORGE'S COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP

PROFESSIONAL STAMP



ENGINEER

TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

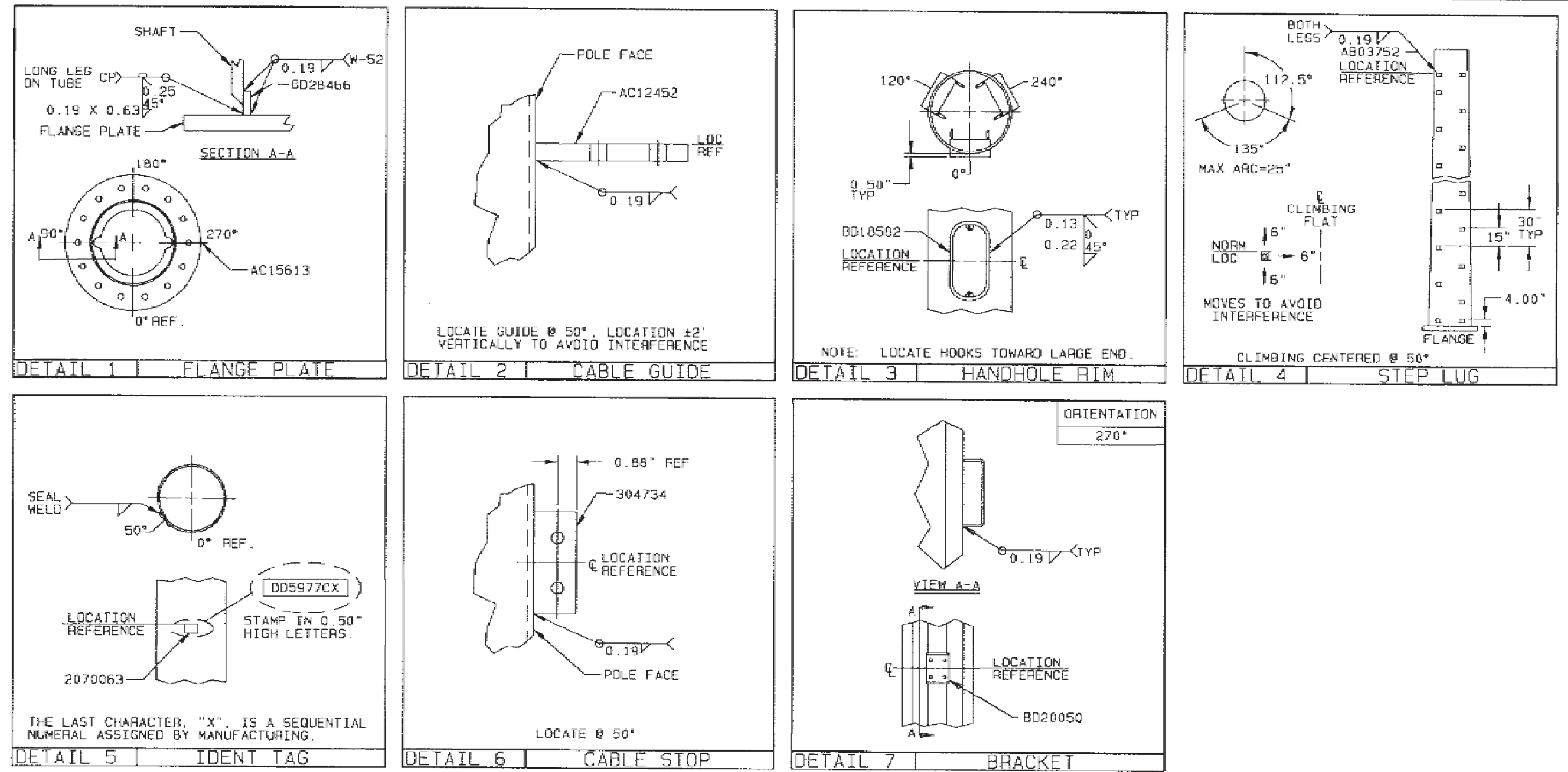
SHEET TITLE

TOWER DESIGN

SHEET NUMBER

APPENDIX

LOCATION DIMENSION			
FROM LARGE END	FROM SMALL END	TOLERANCES BLANK = N-	DETAIL
	0'-6.00"		7
	0'-6.00"		6
	0'-10.00"		5
	1'-0.00"		4
	4'-6.00"		3
	10'-0.00"		3
	25'-0.00"		2
	0'-0.00"		1



NOTES:  
 1. LOCATE SEAM WELD AT 40°. ALL MEASUREMENTS ARE CLOCKWISE WHEN VIEWED FROM THE SMALL END.  
 2. ALL CROSS SECTION VIEWS ARE FROM SMALL END OF TUBE.  
 3. POLE TUBE DATA REC. MATERIAL=S-22  
 TUBE END OD INL THICKNESS  
 LENGTH LARGE SMALL (IN)  
 29'-10.25" 16.89 12.00 0.186  
 TUBE DIAMETERS MEASURED ACROSS FLATS.

BILL OF MATERIAL (SHIP SEQ=0)

VALMONT PART NO	DESCRIPTION	QTY PER ASSY
BD28465	SHAFT	1
AC15613	FLANGE	1
BD28466	BACK-UP-RING	2
AC12452	CABLE GUIDE	1
BD18582	HANDHOLE RIM	5
AB03752	STEP LUG	25
2070063	IDENT TAG	1
304734	CABLE STOP	1
BD20050	BRACKET	1

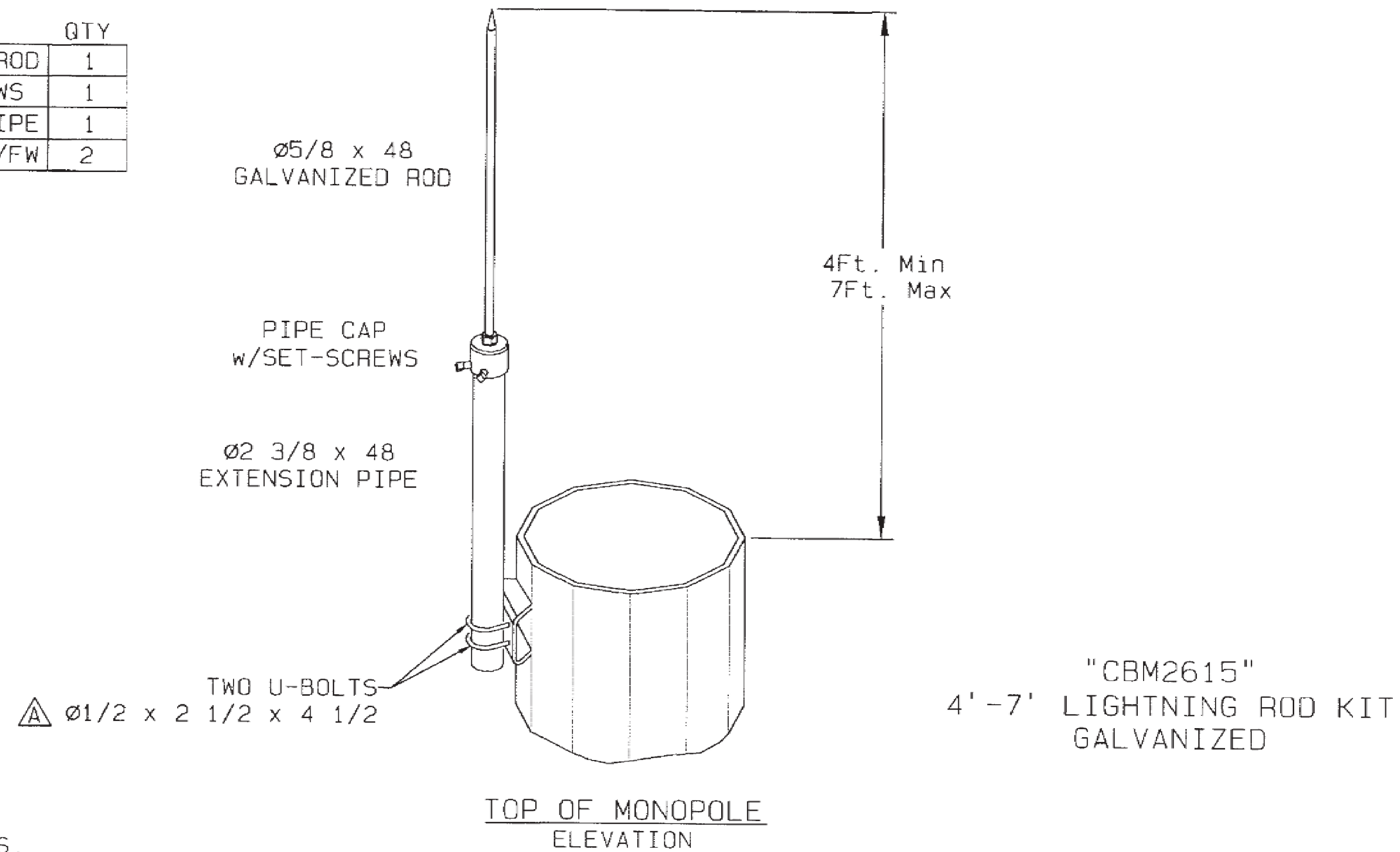
DUPLICATE DRAWING DISTRIBUTION

REV	DATE	REV BY	CHK BY	REVISION DESCRIPTION	MATERIAL	THICKNESS	WEIGHT
001	01/21/16	ERI	DDC	SCALE NONE			
002	01/22/16	P.A.	EMK	SHIP OK			
003	01/22/16	ESS		SHIP OK			
004				QUINER SPECIFICATIONS			
005				F-L, W-L, W-24			

ORDER NO. 299307 CUSTOMER T-MOBILE DESCRIPTION SECTION ASSEMBLY DWG NO. DD5977C

12

PART NO	DESCRIPTION	QTY
A0567	48" GALVANIZED ROD	1
A1182	PIPE CAP & SCREWS	1
B1001	2 3/8"OD GALV PIPE	1
-----	1/2"U-BOLT/N/LW/FW	2



KIT WEIGHT = 25 LBS.

KIT PART NUMBER: "31-B2615"  
DESC: 4'-7' LIGHTNING ROD KIT

VENDOR: MICROFLECT, INC.  
PHONE: 1-800-547-2151

DUPLICATE DRAWING DISTRIBUTION		TECFOIG B2615 4'-7' LIGHTNING ROD KIT			
		DWG SIZE B	CLASS CODE (1) 1	CLASS NO. (3) 450	
		DRAWN REM1	ENGR	DATE 06/03/09	SCALE NONE
		P.A. CHK		SHOP CHK VMF	
		OTHER SPECIFICATIONS F-1			
		MATERIAL	THICKNESS	WEIGHT 25#	
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION	
				A 01/22/15 DDB AH1 U-BOLTS WERE 3/8" DIA	
ORDER NO.	CUSTOMER			DESCRIPTION	DWG NO.
				LIGHTNING ROD KIT 4'-7'	CBM2615

13

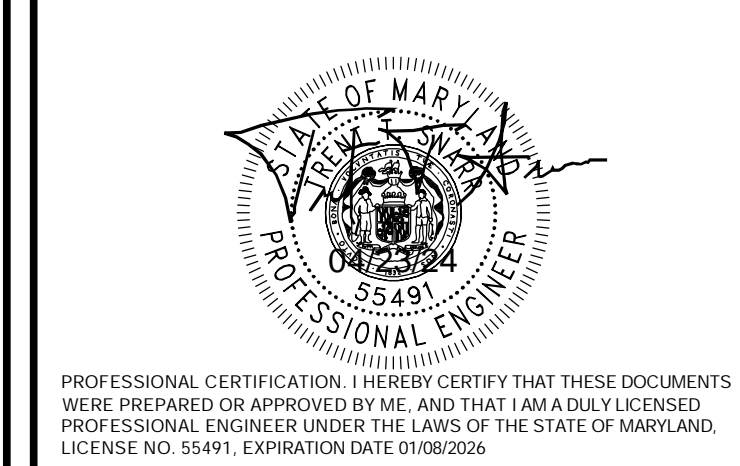
**T-Mobile**  
T-MOBILE NORTHEAST LLC  
12050 BALTIMORE AVENUE  
BELTSVILLE, MD 20705  
OFFICE: (240) 264-8600  
FAX: (240) 264-8610

**NB+C**  
NB+C ENGINEERING SERVICES, LLC.  
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ELK RIDGE, MD 21075  
(410) 712-7092

7WAS088A  
WSSC-GREENBELT  
211 RIDGE RD  
GREENBELT, MD 20770  
PRINCE GEORGE'S COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP



TRENT TRAVIS SNARR, P.E.  
MARYLAND PROFESSIONAL ENGINEER  
LICENSE #55491

TOWER DESIGN

APPENDIX

DPIE APPROVAL STAMP BLOCK



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 (410) 712-7092

SITE INFORMATION

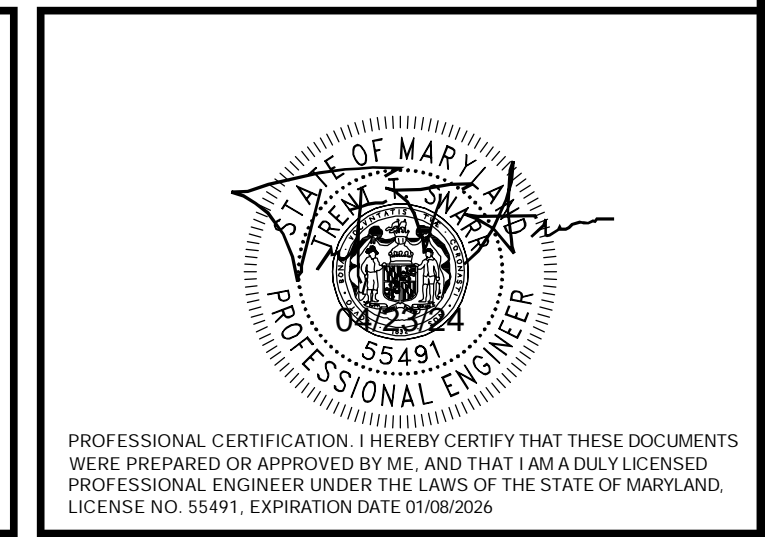
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 WSSC-GREENBELT  
 211 RIDGE RD  
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 PRINCE GEORGE'S COUNTY

DESIGN RECORD

REVISIONS

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0	04/23/24	FINAL DRAWINGS	DSP

PROFESSIONAL STAMP



ENGINEER

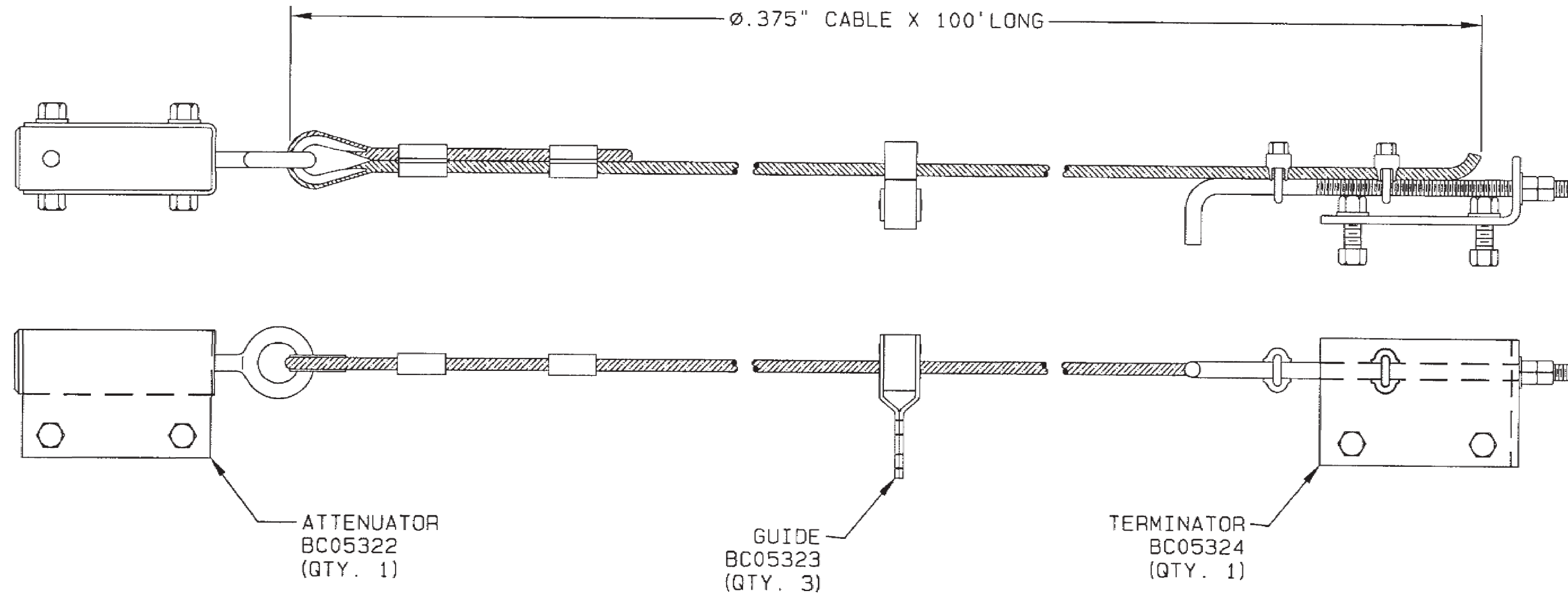
TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

SHEET TITLE

TOWER DESIGN

SHEET NUMBER

APPENDIX



MATERIAL THICKNESS: N/A		<input type="checkbox"/> 04 <input type="checkbox"/> 37 <input type="checkbox"/> 38 <input type="checkbox"/> 40				DATE	DRAWN	CHECKED	SCALE
SPECIFICATIONS		PROD. CODE (2) <u>04</u> S. CODE (1) <u>27</u> ELS (7) <u>02</u> STO. IND. (1) <u>15</u> UOM (2) <u>PC</u> SHIP FLAG (1) <u>29</u> CLASS CODE (1) <u>J</u> CLASS NO (3) <u>113</u>				04/26/85			NONE
MATERIAL <u>N/A</u>		DESCRIPTION (40) FIELD 37 <b>LAD SD SAFETY DEVICE 100'</b>						PART NO.	
FINISH <u>N/A</u>		DNG. SIZE (1) <u>B</u> PURC. L. T. (5) <u>87</u> CONTROL (1) <u>102</u> NATL. COST (5-4) <u>07</u> PL. CODE (1) <u>41</u> WEIGHT (7) <u>40</u>				<input type="checkbox"/> 04 <input type="checkbox"/> 07 <input type="checkbox"/> 104		<input type="checkbox"/> 04 <input type="checkbox"/> 07 <input type="checkbox"/> 104	
WELD <u>N/A</u>									
TOLERANCE <u>N/A</u>									
REV.	DATE	REVISION DESCRIPTION		MLR5					
A	04/09/07	UPDATED PRINT							

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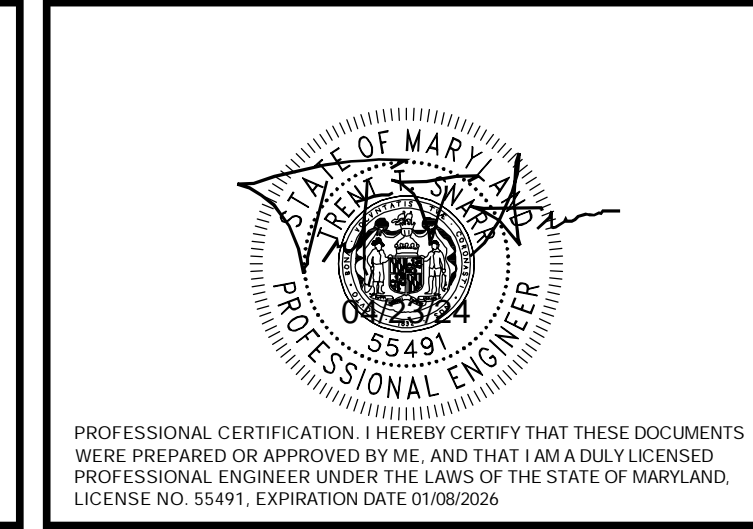
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**NB+C**  
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7WAS088A  
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 211 RIDGE RD  
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 PRINCE GEORGE'S COUNTY

**REVISIONS**

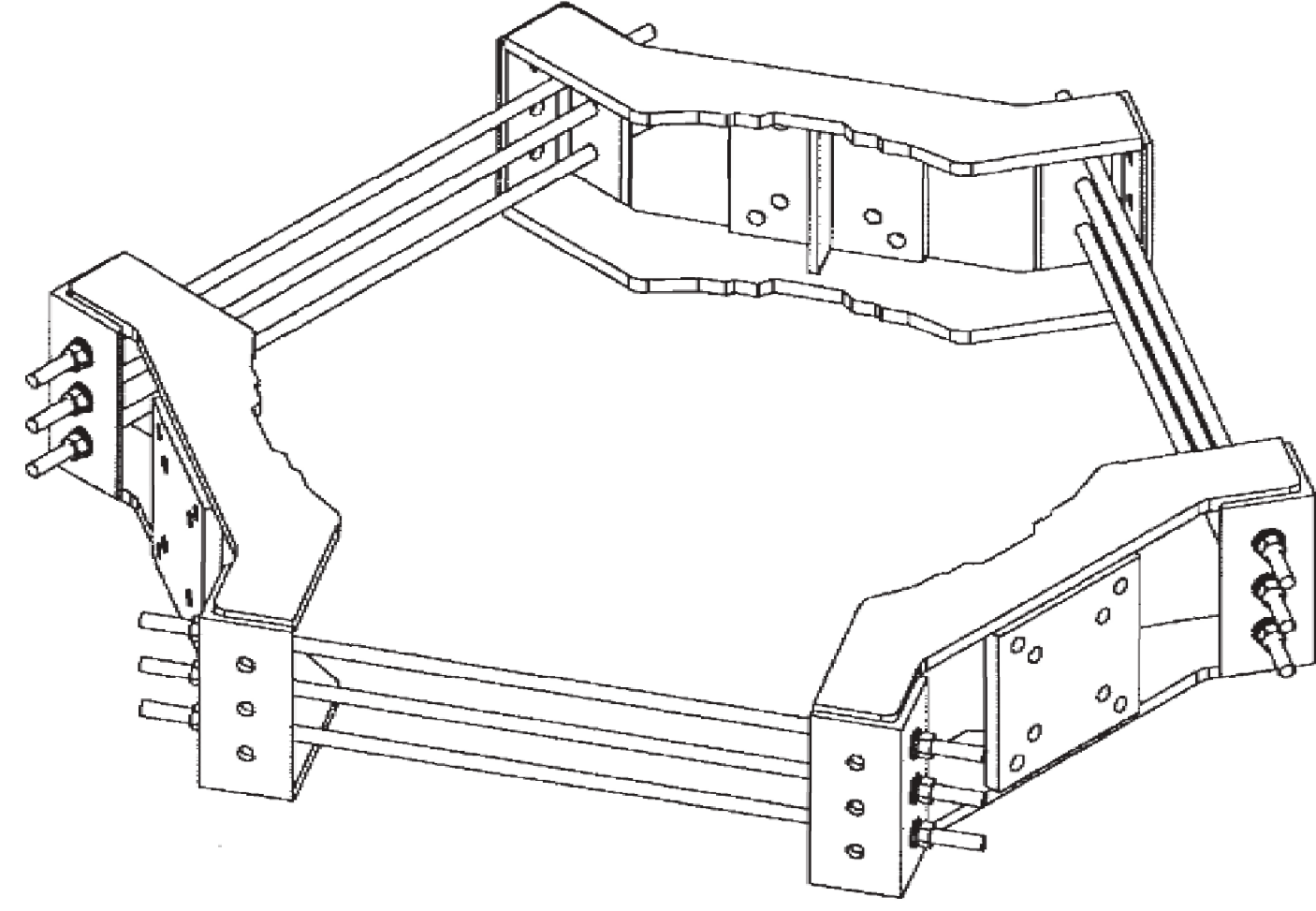
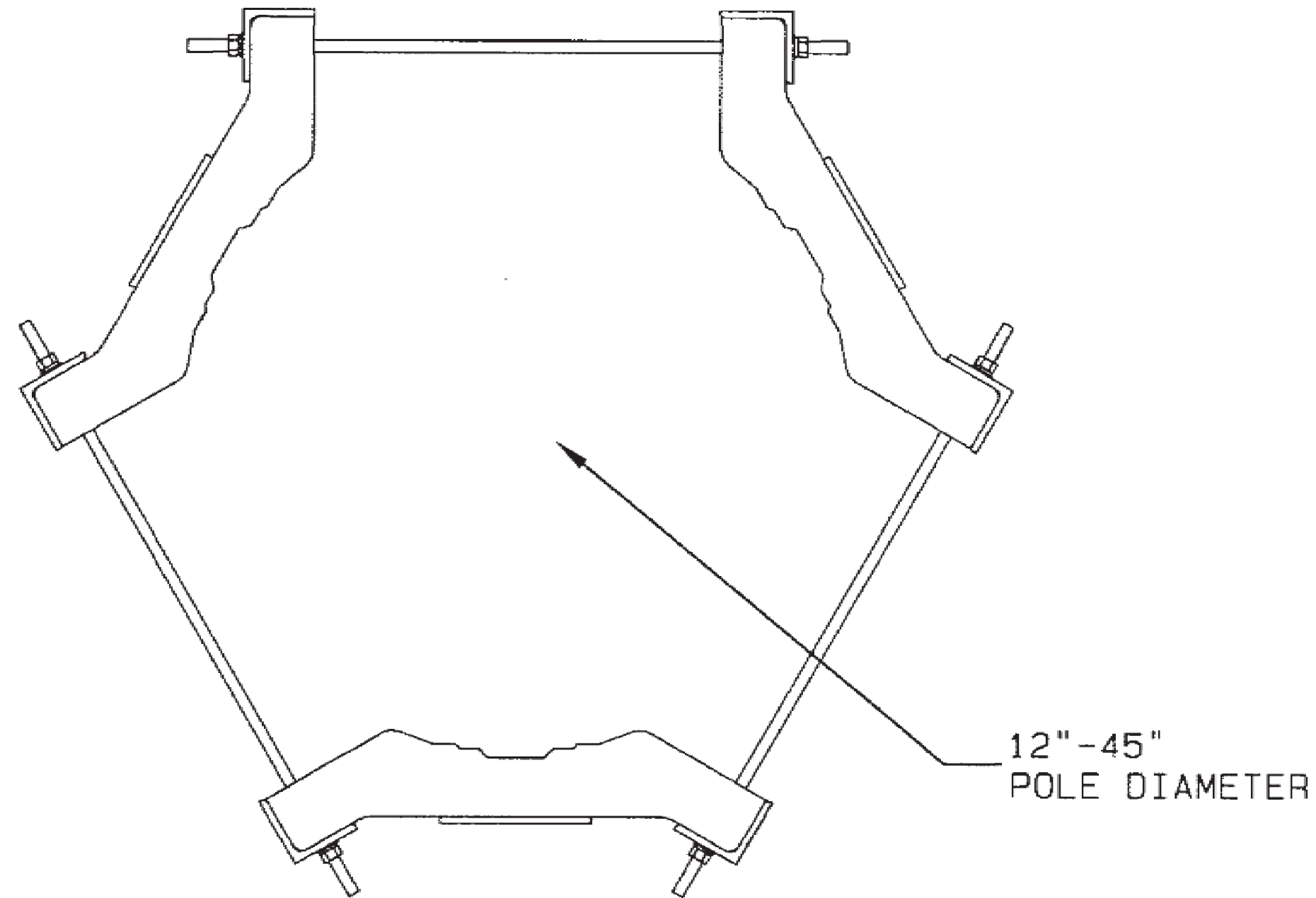
REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP



TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

TOWER DESIGN

APPENDIX



**VENDOR:**  
 SITE PRO 1  
 2045 WESTGATE DR, SUITE 110  
 CARROLLTON, TX 75006  
 1-888-809-5151

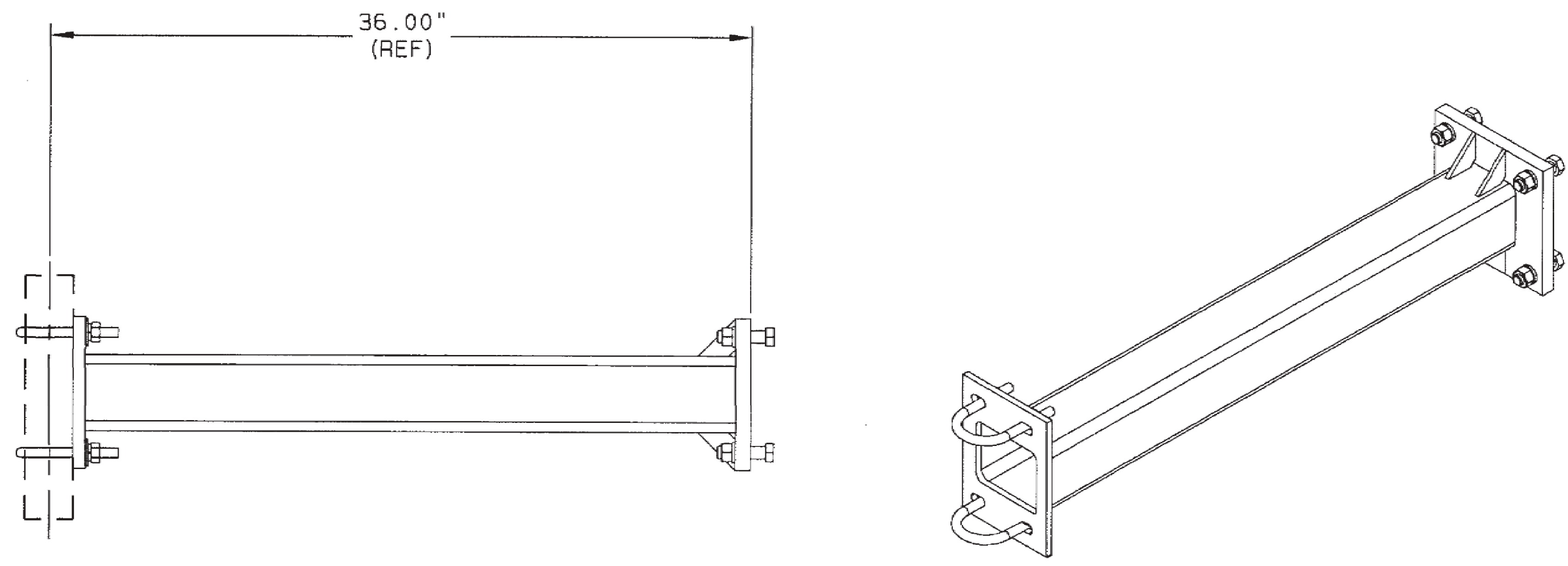
PART NUMBER: "LWRM" TRI-BRACKET (12"-45")

KIT INCLUDES:  
 BRACKET PLATES  
 HARDWARE

DUPLICATE DRAWING DISTRIBUTION		TECP TRI-BRACKET LWRM E-1		SITEPRO			
DWG SIZE B		CLASS CODE (1)		CLASS NO. (3)			
DRAWN	ENGR	DATE	SCALE	<b>valmont</b>			
JE9		03/22/12	NONE				
P.A. CHK		SHOP CHK					
		MLR5 04/12/12		OTHER SPECIFICATIONS			
		F-1					
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION	MATERIAL	THICKNESS	WEIGHT
							264#
ORDER NO. STANDARD		CUSTOMER STANDARD		DESCRIPTION LWRM		DWG NO. BD20020	

51





VENDOR:  
 SITE PRO 1  
 2045 WESTGATE DR, SUITE 110  
 CARROLLTON, TX 75006  
 1-888-809-5151

PART NUMBER: "MM03" 36" STANDOFF ARM

KIT INCLUDES:  
 STANDOFF ARM  
 HARDWARE

DUPLICATE DRAWING DISTRIBUTION				TECP STANDOFF ARM MM03 F-1 SITEPRO			
				DWG SIZE B		CLASS CODE (1) CLASS NO. (3)	
				DRAWN	ENGR	DATE	SCALE
				ER19		12/26/13	NONE
				P.A. CHK		SHOP CHK	
						CN3 12/31/13	
				OTHER SPECIFICATIONS			
				F-1			
				MATERIAL	THICKNESS	WEIGHT	
						47#	
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION			
				ORDER NO.	CUSTOMER	DESCRIPTION	DWG NO.
				STANDARD	STANDARD		BD23519



APPLICANT	 T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610	DPIE APPROVAL STAMP BLOCK											
	 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092												
ENGINEER	7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY												
SITE INFORMATION													
DESIGN RECORD	<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>04/23/24</td> <td>FINAL DRAWINGS</td> <td>DSP</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	0	04/23/24	FINAL DRAWINGS	DSP
REVISIONS													
REV	DATE	DESCRIPTION	BY										
0	04/23/24	FINAL DRAWINGS	DSP										
PROFESSIONAL STAMP	 PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 55491, EXPIRATION DATE 01/08/2026.												
ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491												
SHEET TITLE	TOWER DESIGN												
SHEET NUMBER	APPENDIX												

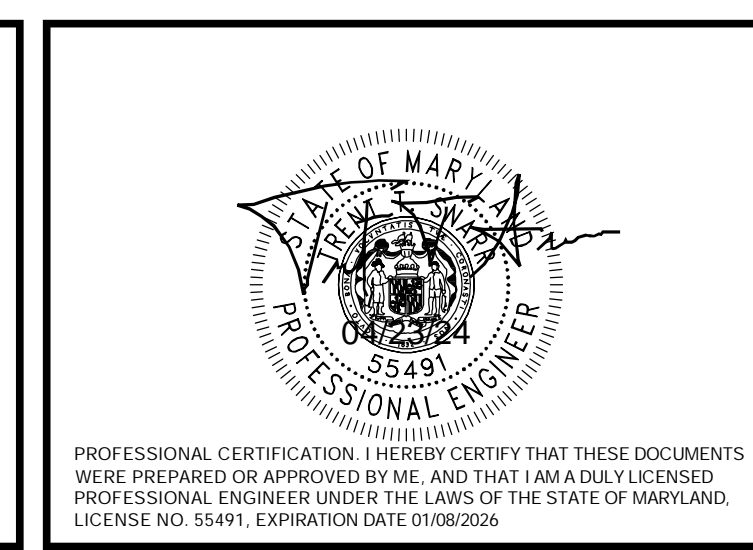
DPIE APPROVAL STAMP BLOCK

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7WAS088A  
 WSSC-GREENBELT  
 211 RIDGE RD  
 GREENBELT, MD 20770  
 PRINCE GEORGE'S COUNTY

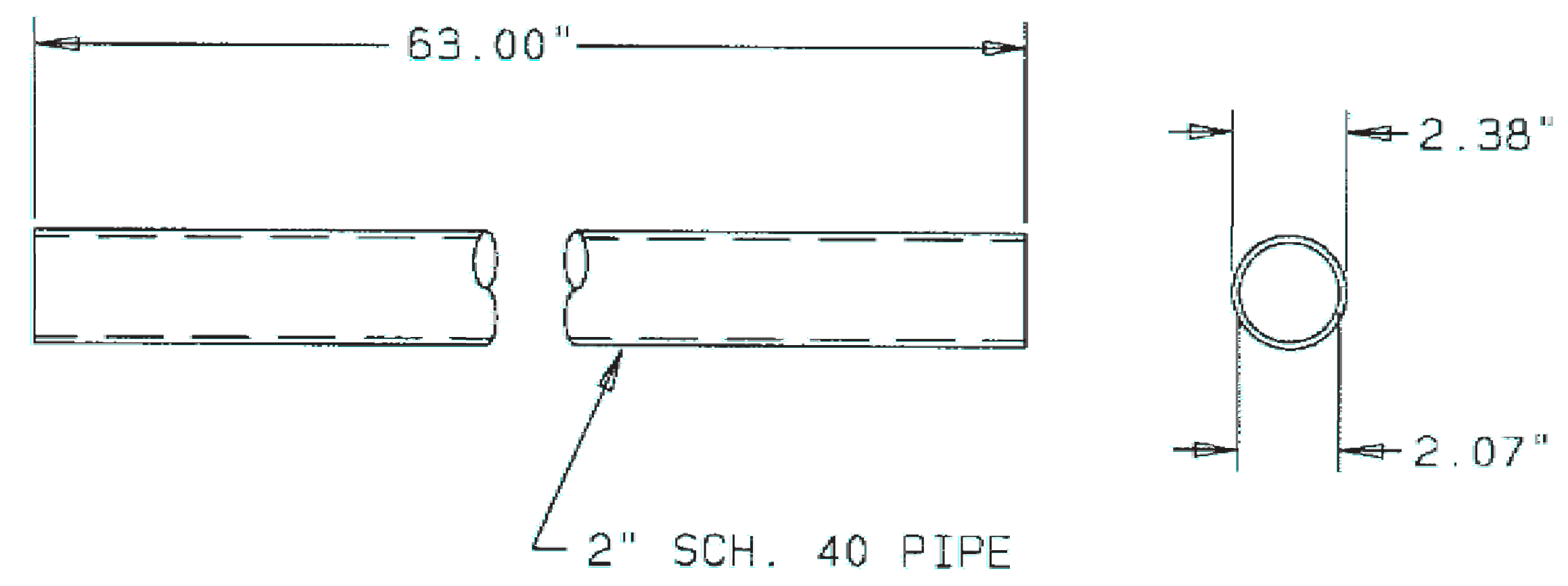
REVISIONS			
REV	DATE	DESCRIPTION	BY
0	04/23/24	FINAL DRAWINGS	DSP



TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

TOWER DESIGN

APPENDIX



VENDOR:  
 SITE PRO 1  
 2045 WESTGATE DR, SUITE 110  
 CARROLLTON, TX 75006  
 1-888-809-5151

SITE PRO PART #P263 3.65# PER FT

DUPLICATE DRAWING DISTRIBUTION		TEC 2" SCH.40 PIPE-63" P263 F-1 SITEPRO			
		DWG SIZE A CLASS CODE (1) 4 CLASS NO. (3) 999			
		DRAWN	ENGR	DATE	SCALE
		DDB6		05/05/14	
		P.A. CHK		SHOP CHK	
				AH12 5/06/14	
		OTHER SPECIFICATIONS			
		F-1, M-1			
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION	
ORDER NO.	CUSTOMER			DESCRIPTION	DWG. NO.
STANDARD	STANDARD			PIPE	AC15036





24' PORTABLE MONOPOLE BASE FOR 30" MONOPOLE

PIROD KIT NUMBER: SS214982

NOTE

DETAILED INSTALLATION DRAWINGS WILL BE INCLUDED WITH KIT  
 BASE FLANGE ADAPTER (A) WILL NOT BE NEEDED FOR THIS APPLICATION

VALMONT STRUCTURES  
 PIROD  
 1545 PIDCO DR.  
 PLYMOUTH, IA  
 1-877-467-4763

DUPLICATE DRAWING DISTRIBUTION    TECP\_24FT\_PORTABLE\_30IN\_MP\_BASE\_PIROD\_  
 DWG SIZE A    CLASS CODE (1)       CLASS NO. (3)   

				DRAWN	ENGR	DATE	SCALE	
				ER1		01/21/16	N/A	
				P.A. CHK		SHOP CHK		
				EGS2 01/21/16				
				OTHER SPECIFICATIONS				
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION				
ORDER NO.	CUSTOMER			DESCRIPTION			DWG NO.	
STANDARD	STANDARD			24' PORTABLE MONOPOLE BASE			AC15609	

APPLICANT

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ENGINEER

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SITE INFORMATION

7WAS088A  
 WSSC-GREENBELT  
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REV	DATE	DESCRIPTION	BY
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PROFESSIONAL STAMP

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ENGINEER

TRENT TRAVIS SNARR, P.E.  
 MARYLAND PROFESSIONAL ENGINEER  
 LICENSE #55491

SHEET TITLE

TOWER DESIGN

SHEET NUMBER

APPENDIX

DPIE APPROVAL STAMP BLOCK

3,600# CONCRETE WEIGHT FOR PORTABLE MP BASE

PIROD PART NUMBER: SS184340

VALMONT STRUCTURES  
PIROD  
1545 PIDCO DR.  
PLYMOUTH, IA  
1-877-467-4763

DUPLICATE DRAWING DISTRIBUTION		TECP WEIGHT FOR PORTABLE MP BASE PIROD			
		DWG SIZE <u>A</u>		CLASS CODE (1) <u>  </u> CLASS NO. (3) <u>  </u>	
		DRAWN	ENGR	DATE	SCALE
		ER1		01/21/16	N/A
		P.A. CHK		SHOP CHK	
				EGS2 01/21/16	
		OTHER SPECIFICATIONS			
		MATERIAL	THICKNESS	WEIGHT	
				3,600#	
REV ID	DATE	REV BY	CHK BY	REVISION DESCRIPTION	
ORDER NO.	CUSTOMER	DESCRIPTION		DWG NO.	
STANDARD	STANDARD	WEIGHT FOR PORTABLE MP BASE		AC15610	

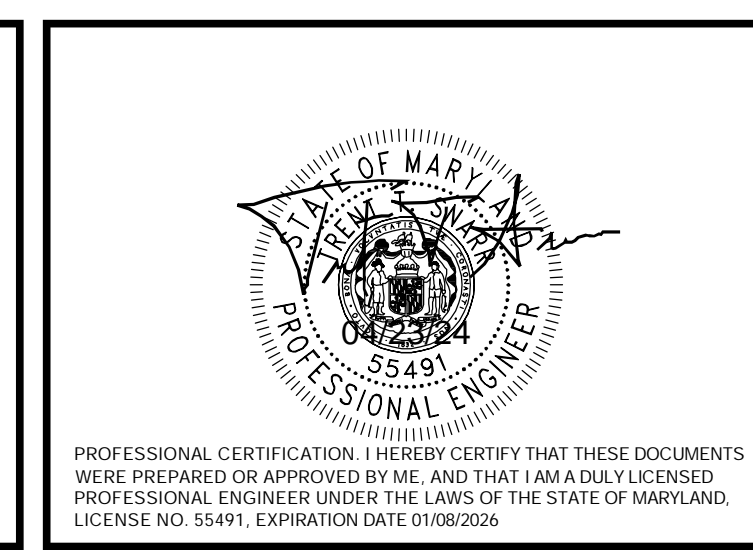


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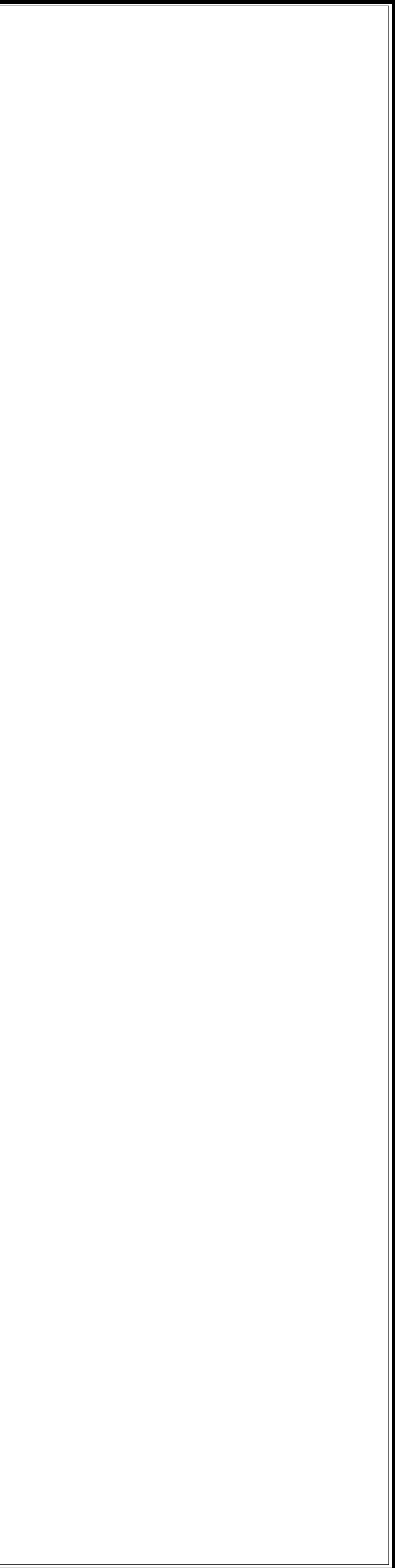


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LICENSE #55491

TOWER DESIGN

APPENDIX

DPIE APPROVAL STAMP BLOCK



APPLICANT

ENGINEER

SITE INFORMATION

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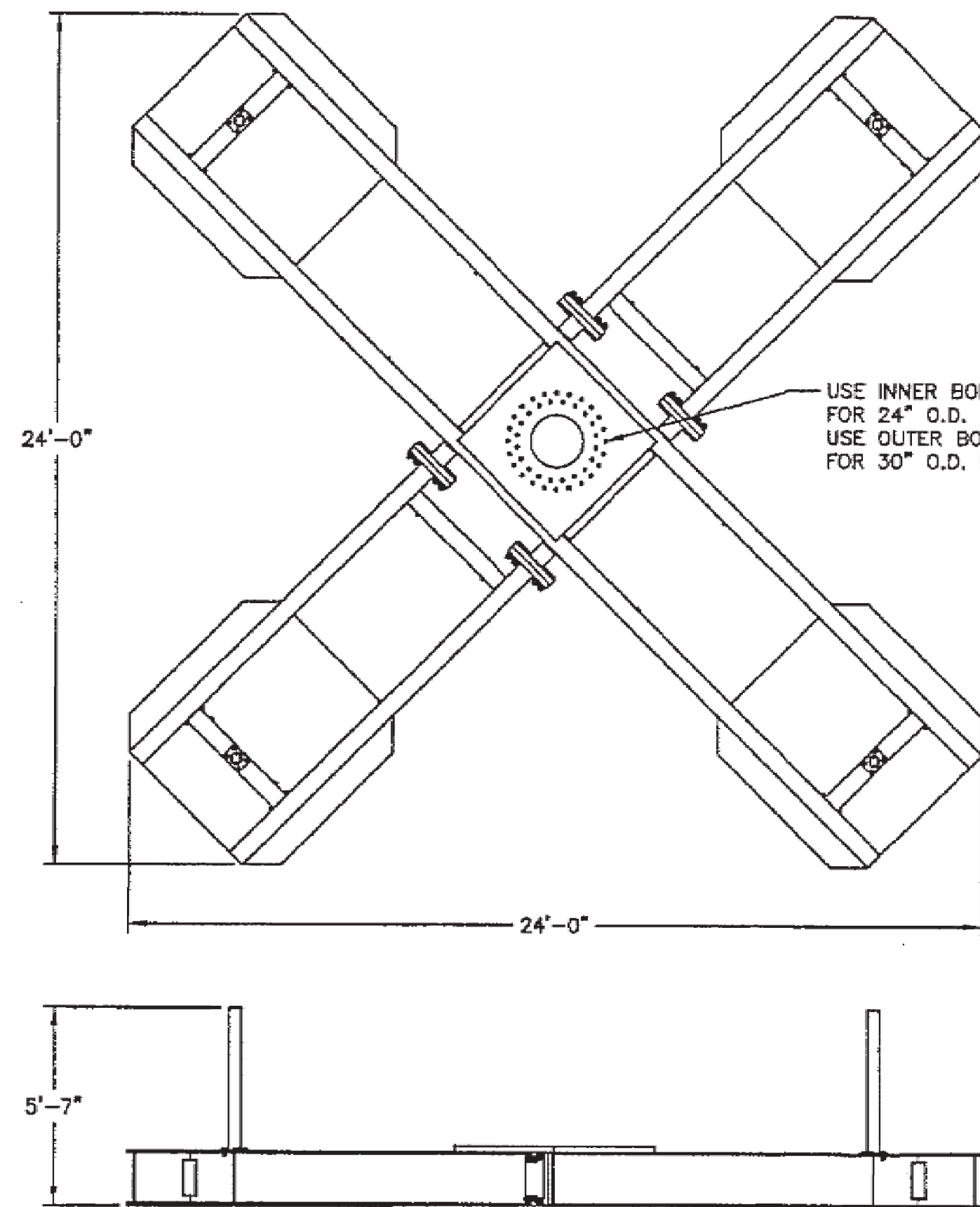
ENGINEER

SHEET TITLE

SHEET NUMBER



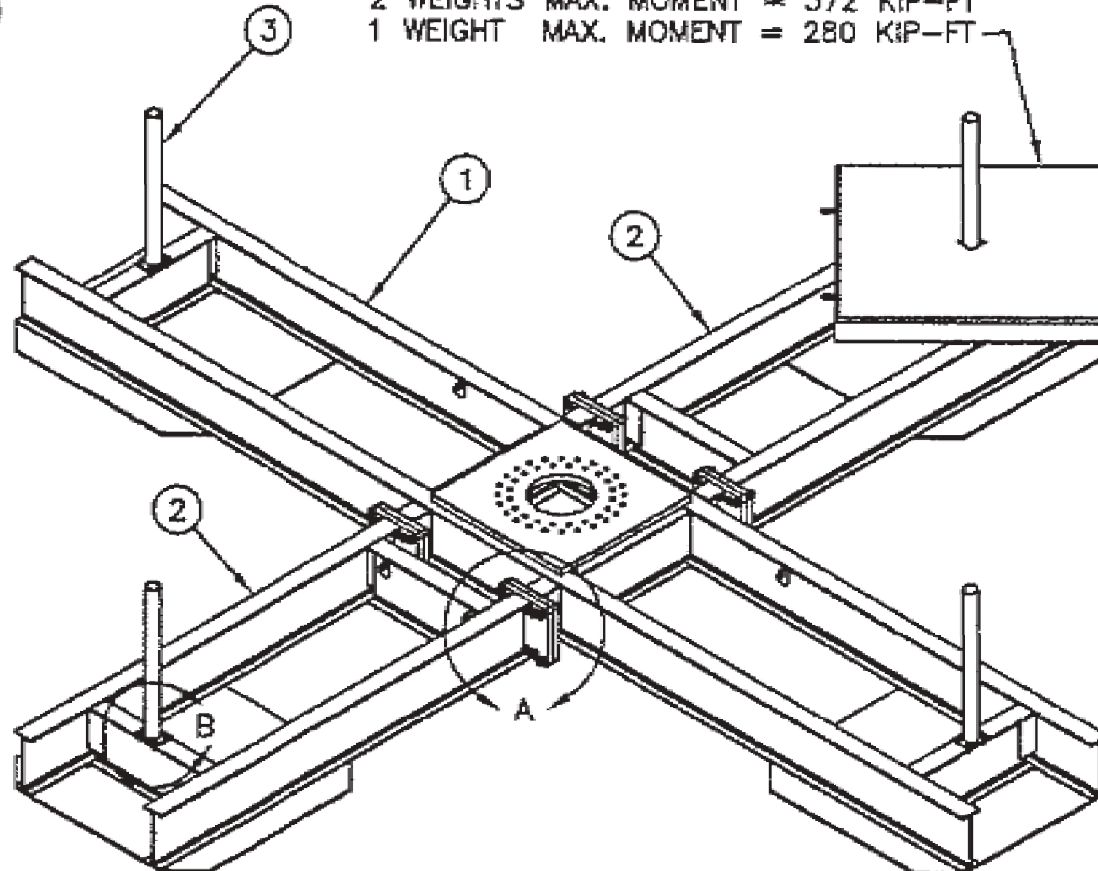
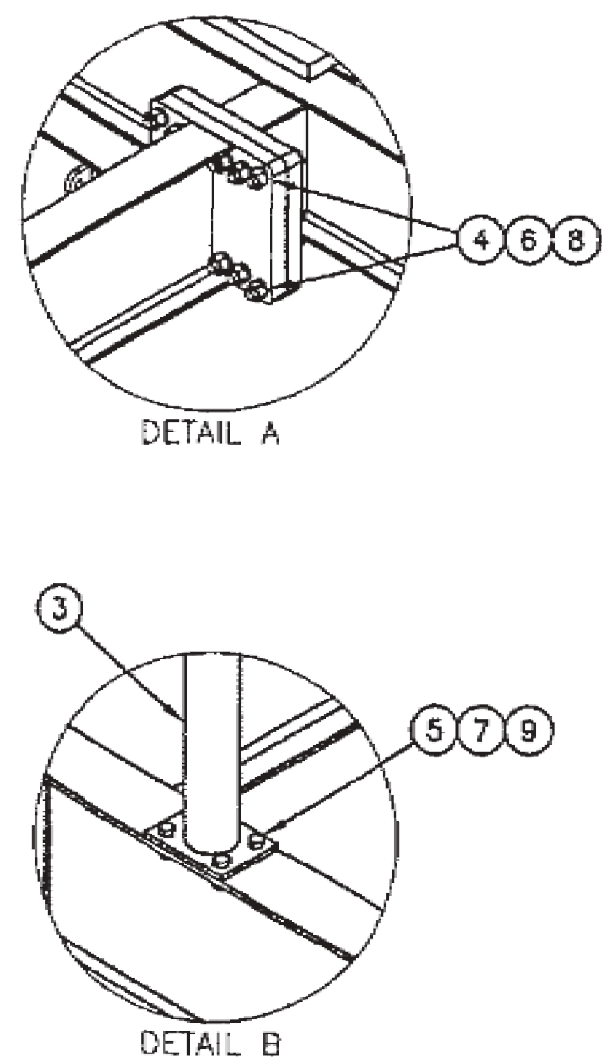
Printed: 11/18/2013 20:14



ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	214927	CENTER SUPPORT SECTION	354"	6745.44#	6745.44#
2	2	214926	SIDE SUPPORT SECTION	141"	2464.79#	4929.58#
3	4	214928	WEIGHT GUIDE POST	48 1/2"	44.99#	179.96#
4	48	311301	1 1/4" (A325) HEX BOLT (MECH)	6"	2.70#	129.60#
5	16	311156	3/4" (A325) HEX BOLT (MECH)	2 1/4"	0.42#	6.72#
6	48	312263	1 1/4" LOCK WASHER		0.15#	7.20#
7	16	312153	3/4" LOCK WASHER		0.03#	0.48#
8	48	154418	1 1/4" HEX NUT (MECH)		0.73#	35.04#
9	16	154416	3/4" HEX NUT (MECH)		0.17#	2.72#
10	1	A	BASE FLANGE ADAPTER PLATE		VARIES	
11	B	311248	1" (A-687) GALVANIZED STUD	10"	1.89#	
12	C	312222	1" FLAT WASHER (F436)		0.14#	
13	D	312223	1" LOCK WASHER (HDC)		0.08#	
14	C	312504	1" HEX NUT (HDC)		0.43#	

NOTE: SEE PAGE 2 FOR ASSEMBLY PART NUMBERS

CONCRETE WEIGHTS (P/N 184340) 3,600# EACH  
 USE P/N 184051 FOR OVERSEAS SHIPPING  
 SOLD SEPARATELY - QUANTITIES AS REQ'D  
 MAXIMUM 6 HIGH PER CORNER  
 6 WEIGHTS MAX. MOMENT = 748 KIP-FT  
 5 WEIGHTS MAX. MOMENT = 665 KIP-FT  
 4 WEIGHTS MAX. MOMENT = 572 KIP-FT  
 3 WEIGHTS MAX. MOMENT = 471 KIP-FT  
 2 WEIGHTS MAX. MOMENT = 372 KIP-FT  
 1 WEIGHT MAX. MOMENT = 280 KIP-FT

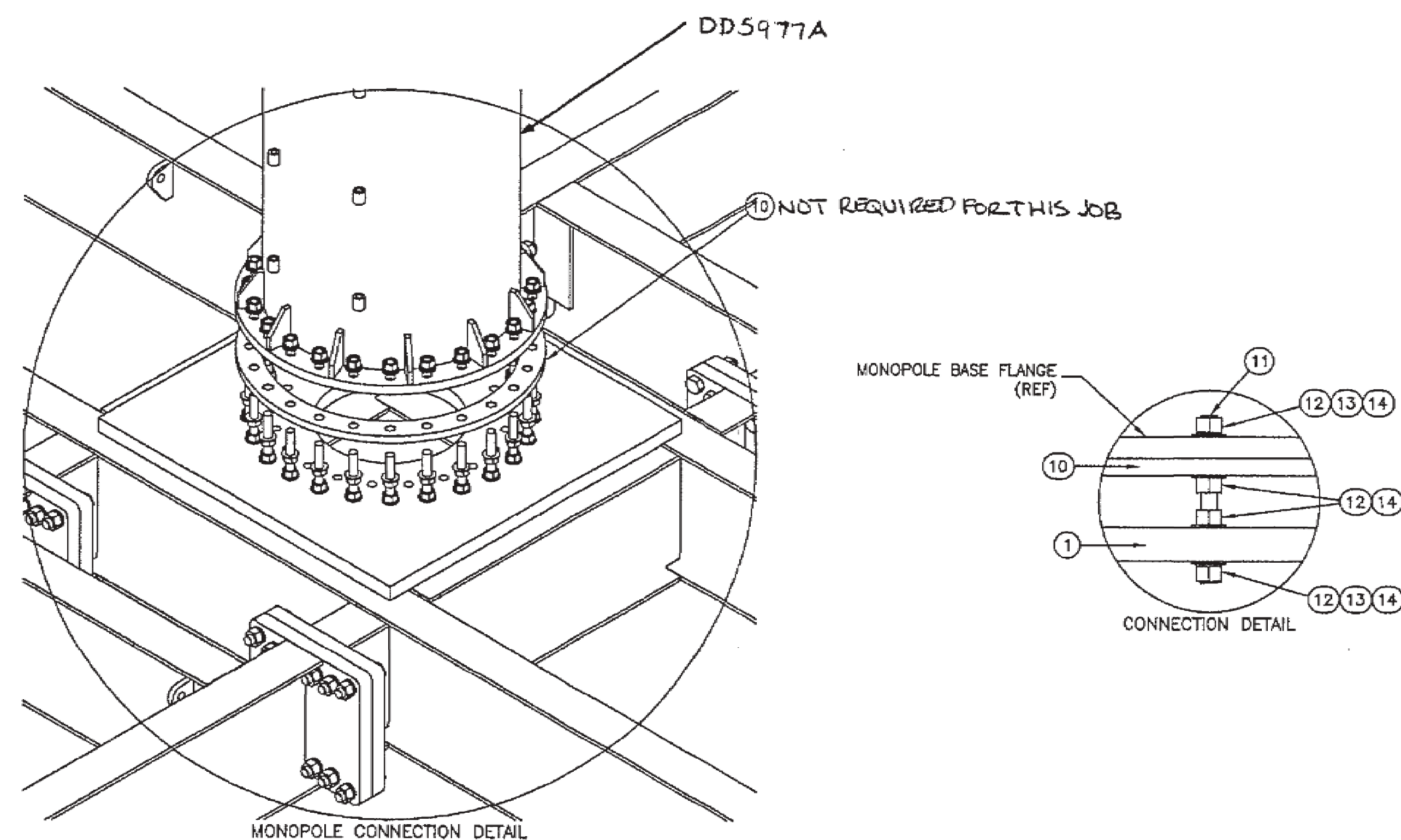


<b>PROPRIETARY NOTE:</b> THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.		<b>DESCRIPTION</b> 24' PORTABLE MONOPOLE BASE ASSEMBLIES FOR 24" AND 30" MONOPOLES		<b>valmont</b> 1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR STRUCTURES	
<b>TOLERANCE NOTE:</b> TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE (PLUS OR MINUS) MACHINING 0.030" AND STRUCTURAL 0.060". BENDS ARE (+ OR -) 1/2 DEGREE.	DR BY SAN 11/14/2007	CPD NO. 4217	DRAWING USAGE CUSTOMER	PART NO. SEE TABLE	1 OF 2
REV.      DESCRIPTION OF REVISIONS      CPD      BY      DATE	0B      REPLACED 1" LOCKNUTS WITH LOCK WASHERS      4448      JDE      03/17/2009	0A      ADDED PAGE 2      4217      SAN      01/14/2008	ENG. APPROVAL TBC 03/18/2009	CHECKED BY MVC 03/18/2009	DWG. NO. 214938

APPLICANT	<b>T-Mobile</b> T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610	DPIE APPROVAL STAMP BLOCK								
ENGINEER	 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 (410) 712-7092									
SITE INFORMATION	7WAS088A WSSC-GREENBELT 211 RIDGE RD GREENBELT, MD 20770 PRINCE GEORGE'S COUNTY									
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PROFESSIONAL STAMP	 PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 55491, EXPIRATION DATE 01/08/2026.									
ENGINEER	TRENT TRAVIS SNARR, P.E. MARYLAND PROFESSIONAL ENGINEER LICENSE #55491									
SHEET TITLE	TOWER DESIGN									
SHEET NUMBER	APPENDIX									



Printed: 11/18/2013 20:14



PART NO.	PART DESCRIPTION	A (P/N)	B (QTY)	C (QTY)	D (QTY)	NET WT.
214938	PORTABLE BASE (24" MONOPOLE)	118485	20	80	40	12,175#
214982	PORTABLE BASE (30" MONOPOLE)	118486	24	96	48	12,204#

**PROPRIETARY NOTE:**  
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

**DESCRIPTION**  
24' PORTABLE MONOPOLE BASE ASSEMBLIES FOR 24" AND 30" MONOPOLES



REV.	DESCRIPTION OF REVISIONS	CPD	BY	DATE
0B	REPLACED 1" LOCKNUTS WITH LOCK WASHERS	4448	JDE	03/17/2008
0A	ADDED PAGE 2	4217	SAN	01/14/2008

**TOLERANCE NOTE:**  
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE (PLUS OR MINUS) MACHINING 0.030" AND STRUCTURAL 0.060". BENDS ARE (+ OR -) 1/2 DEGREE.

DR BY: SAN 11/14/2007  
CPD NO.: 4217  
DRAWING USAGE: CUSTOMER  
ENG. APPROVAL: TBC 03/18/2009  
CHECKED BY: MVC 03/18/2009

PART NO.: SEE TABLE  
DWG. NO.: 214938

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APPLICANT	<p>T-MOBILE NORTHEAST LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 OFFICE: (240) 264-8600 FAX: (240) 264-8610</p>	DPIE APPROVAL STAMP BLOCK							
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