

T-MOBILE SITE ID: PO01625E

MW LINK: PO01625E TO PO01635A

PROJECT: MW ADD

SITE NAME: WOODLAND DOWNTOWN

SBA SITE ID: WA48195-A

SITE TYPE: MONOPOLE

SITE ADDRESS: 271 NORTH PEKIN ROAD,, WOODLAND, WA 98674



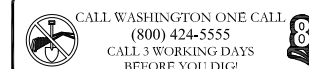
8960 ALDERWOOD ROAD  
PORTLAND, OR 97220



959 SOUTH COAST DR, SUITE 200  
COSTA MESA, CA 92626



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REV	DATE	DESCRIPTION	BY
B	08/24/2021	100% CD'S FOR SUBMITTAL	DGM
A	07/28/2021	90% CD'S FOR REVIEW	MBP

SITE INFORMATION	
PROPERTY OWNER:	COLUMBIA RIVER CARBONATES P.O. BOX 2350, 300 N PEKIN ROAD WOODLAND, WA 98674
APPLICANT:	T-MOBILE WEST CORPORATION
ADDRESS:	830 NE HOLLADAY ST. PORTLAND, OR 97232
LAT/LONG TYPE:	NAD-83
LATITUDE:	45.905721°
LONGITUDE:	-122.760214°
ZONING JURISDICTION:	CITY OF WOODLAND
ZONING CLASSIFICATION:	I-2 HEAVY INDUSTRIAL
CURRENT USE:	UNMANNED TELECOMMUNICATIONS FACILITY
ASSESSOR'S PARCEL NO.:	507350118
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY GROUP:	U



PROJECT DESCRIPTION	
T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:	
• INSTALL	(1) NEW T-MOBILE ANDREW VHLPX4-180 MW ANTENNA @ TOWER LEVEL
• INSTALL	(2) NEW T-MOBILE CERAGON ODU @ TOWER LEVEL
• INSTALL	(2) NEW 1/2" COAX CABLES LINES TO FOLLOW EXISTING CABLE ROUTE
• INSTALL	(2) NEW IDU WITHIN EXISTING CABINET
• INSTALL	(2) NEW M1236-3 UNIVERSAL RING MOUNT
• INSTALL	(2) NEW M3016-8 8" STAND-OFFS
• INSTALL	(1) NEW P45-72 6'-0" LONG PIPE
• INSTALL	(4) NEW UB12X4-5/8X6G U-BOLTS

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T-1.0	TITLE SHEET
GN-1.0	GENERAL NOTES
A-1.0	SITE PLAN & ENLARGED SITE PLAN
A-2.0	EQUIPMENT LAYOUT
A-3.0	ANTENNA LAYOUTS
A-4.0	ELEVATIONS
D-1.0	DETAILS
D-2.0	DETAILS
G-1.0	GROUNDING DETAILS

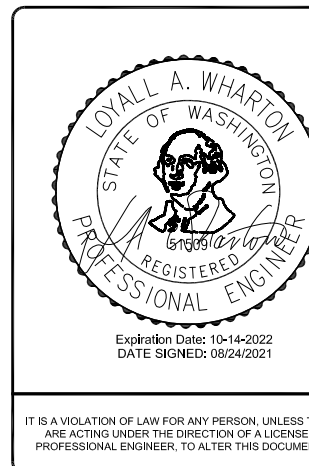
PROJECT TEAM	
CLIENT REPRESENTATIVE: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST. PORTLAND, OR 97232	CONSTRUCTION MANAGER: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST. PORTLAND, OR 97232
SITE DEVELOPMENT SPECIALIST: THOMAS McAULIFFE SBA COMMUNICATIONS 959 SOUTH COAST DR, SUITE 200 COSTA MESA, CA 92626	RF ENGINEER: T-MOBILE WEST CORPORATION 830 NE HOLLADAY ST. PORTLAND, OR 97232
A&E FIRM: M SQUARED WIRELESS 1387 CALLE AVANZADO SAN CLEMENTE, CA 92673 PH: (949) 391-6824	

DRIVING DIRECTIONS	
DIRECTIONS FROM 830 NE HOLLADAY ST:	
1.	HEAD NORTH TOWARD NE ALDERWOOD RD
2.	TURN RIGHT TOWARD NE ALDERWOOD RD
3.	TURN RIGHT ONTO NE ALDERWOOD RD
4.	TURN LEFT ONTO NE HOLMAN ST
5.	TURN LEFT ONTO NE AIRPORT WAY
6.	TURN RIGHT TO MERGE ONTO I-205 N TOWARD SEATTLE
7.	MERGE ONTO I-205 N
8.	TAKE EXIT 21 FOR WA-503 E TOWARD WOODLAND/COUGAR
9.	TURN LEFT ONTO WA-503 N/LEWIS RIVER RD
10.	SLIGHT LEFT ONTO GOERING ST
11.	TURN RIGHT ONTO DAVIDSON AVENUE
12.	TURN RIGHT ONTO N PEKIN RD
13.	TURN LEFT - DESTINATION WILL BE ON THE LEFT

GENERAL NOTES	
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.	

ENGINEERING	
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.	
<ul style="list-style-type: none"> <li>2012 INTERNATIONAL BUILDING CODE</li> <li>2012 INTERNATIONAL ENERGY CONSERVATION CODE</li> <li>2012 INTERNATIONAL FIRE CODE</li> <li>2012 INTERNATIONAL FUEL GAS CODE</li> <li>2012 INTERNATIONAL MECHANICAL CODE</li> <li>2012 UNIFORM PLUMBING CODE</li> <li>2012 INTERNATIONAL RESIDENTIAL CODE</li> <li>2009 INTERNATIONAL WILDLAND-URBAN CODE</li> <li>CITY/COUNTY ORDINANCES</li> <li>LOCAL BUILDING CODE</li> </ul>	

APPROVALS	
THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.	
T-MOBILE RF ENGINEER: _____	DATE: _____
T-MOBILE OPERATIONS: _____	DATE: _____
SITE ACQUISITION: _____	DATE: _____
CONSTRUCTION MANAGER: _____	DATE: _____
PROPERTY OWNER: _____	DATE: _____
ZONING: _____	DATE: _____
PROJECT MANAGER: _____	DATE: _____



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

T-MOBILE SITE ID: PO01625E  
SITE NAME:  
WOODLAND DOWNTOWN  
ADDRESS: 271 NORTH PEKIN ROAD,  
WOODLAND, WA 98674  
SITE TYPE: MONOPOLE  
SBA SITE ID: WA48195-A

**DO NOT SCALE DRAWINGS**  
SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. NOTE: IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE.

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1.0**

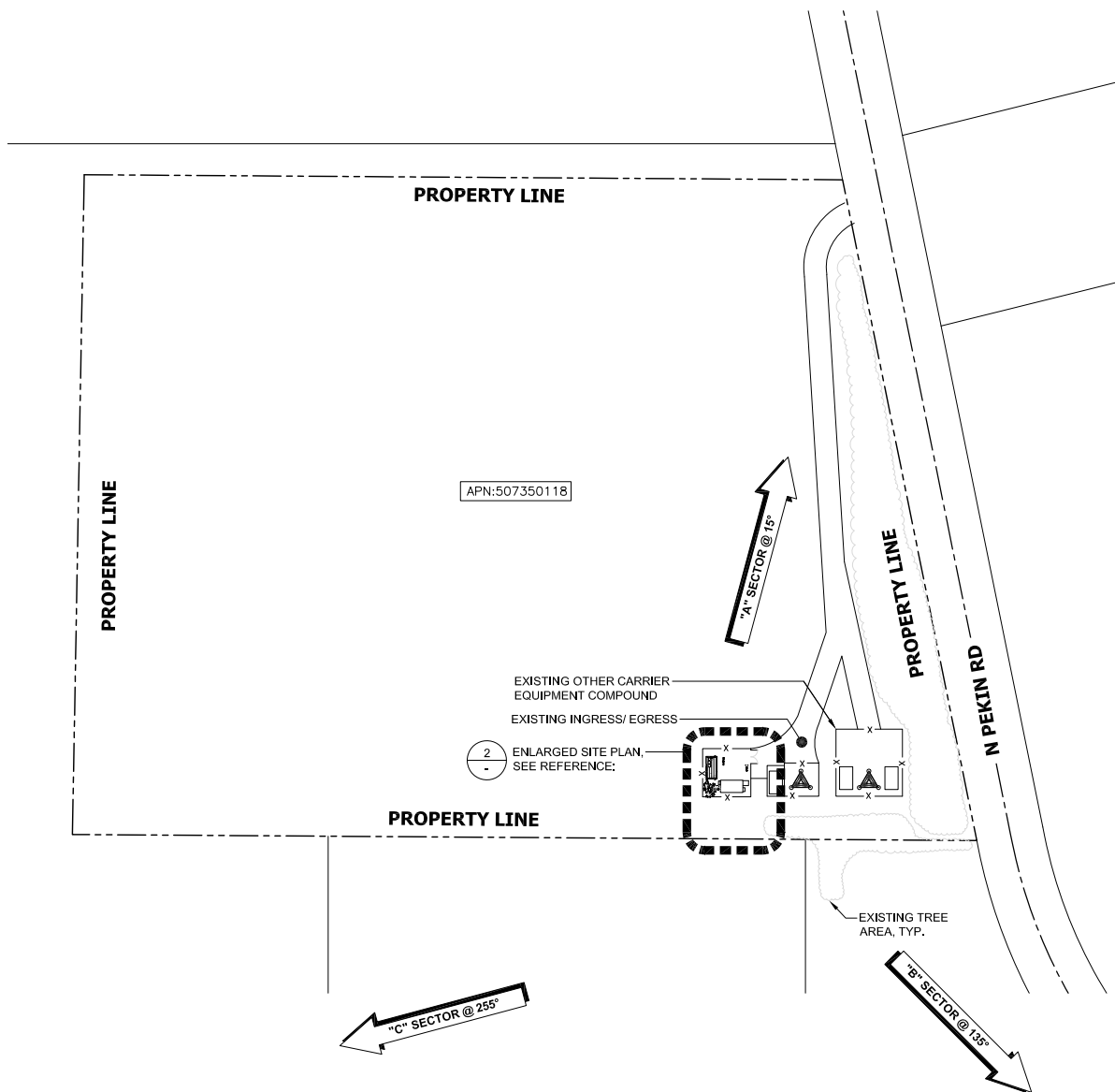


**NOTES:**

1. THE WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.
2. NO EXISTING PARKING STALLS ARE BEING ADDED OR REMOVED AS PART OF THE NEW INSTALLATION.
3. THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, SETBACKS, AND EXISTING CONDITIONS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

**DISCLAIMER:**

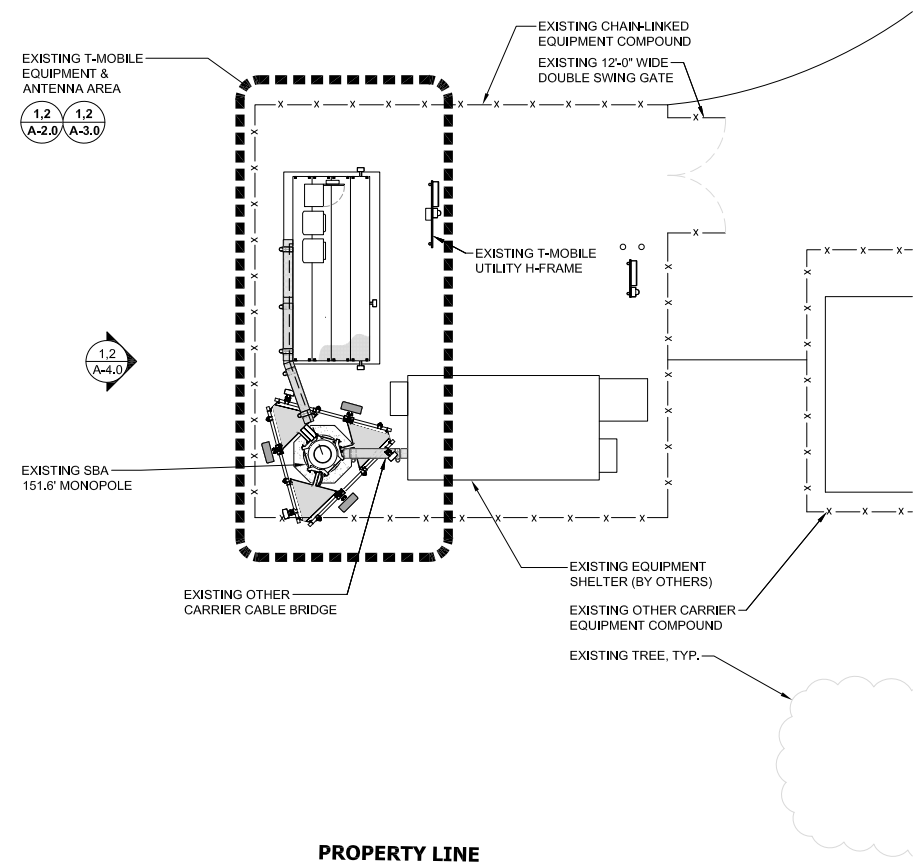
THIS SET OF DRAWINGS WAS PREPARED UTILIZING INFORMATION OBTAINED FROM PUBLIC DOCUMENTS MADE AVAILABLE ON JURISDICTION WEBSITE. M SQUARED WIRELESS CANNOT GUARANTEE THE ACCURACY OF THE DATA AND INFORMATION DEPICTED AND HEREBY EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE TRUTH, VALIDITY, INVALIDITY, ACCURACY, INACCURACY OF ANY SAID DATA AND INFORMATION. THE PARCEL LINES ON MAPS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A SURVEY PRODUCT. USER ACCEPTS RESPONSIBILITY FOR THE UNAUTHORIZED USE OR TRANSMISSION OF ANY SUCH DATA OR INFORMATION IN ITS ACTUAL OR ALTERED FORM.



**SITE PLAN**

24"x36" SCALE: 1" = 80'-0" 0' 40' 80' 160'  
 11"x17" SCALE: 1" = 160'-0"

**ENLARGED SITE PLAN**



24"x36" SCALE: 1" = 10'-0" 0' 5' 10' 20'  
 11"x17" SCALE: 1" = 20'-0"

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**SBA**  
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**M SQUARED WIRELESS**  
 1387 CALLE AVANZADO  
 SAN CLEMENTE CA 92673 (949) 391-8924

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REV	DATE	DESCRIPTION	BY
B	08/24/2021	100% CD'S FOR SUBMITTAL	DGM
A	07/28/2021	90% CD'S FOR REVIEW	MBP

**LOYAL A. WHARTON**  
 STATE OF WASHINGTON  
 REGISTERED PROFESSIONAL ENGINEER  
 Expiration Date: 10-14-2022  
 DATE SIGNED: 08/24/2021

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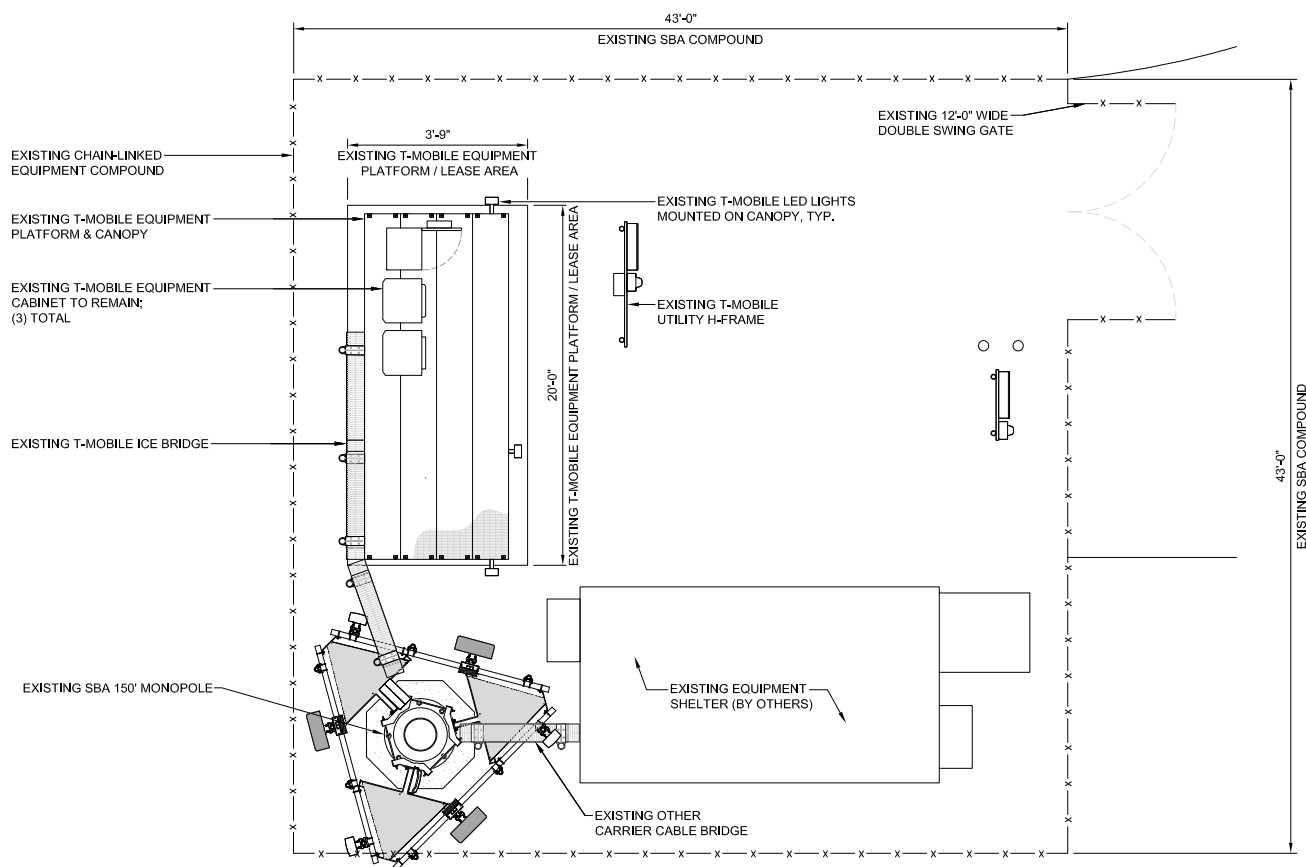
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**ADDRESS: 271 NORTH PEKIN ROAD,**  
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**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**OVERALL SITE PLAN**

SHEET NUMBER  
**A-1.0**



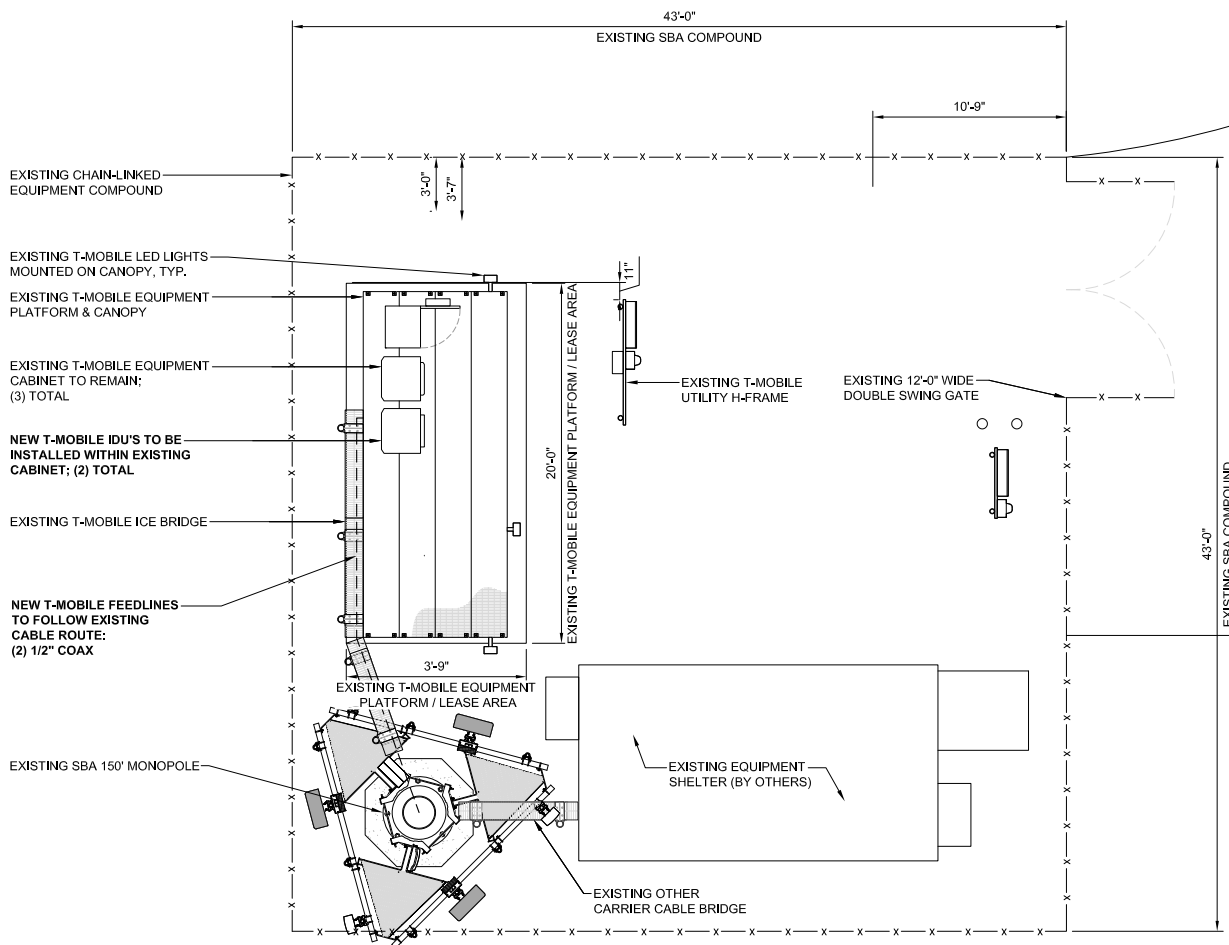
**NOTE:**  
 1. NEW CABLE ROUTING TO FOLLOW EXISTING - SHOWN ON PLANS GENERICALLY (ROUTED) CONTRACTOR TO VERIFY EXISTING BEST ROUTE TO FOLLOW.  
 2. OTHER CARRIER EQUIPMENT NOT SHOWN FOR CLARITY.



**EXISTING EQUIPMENT LAYOUT**

24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"  
 0" 2' 4' 8'

**NOTE:**  
 1. NEW CABLE ROUTING TO FOLLOW EXISTING - SHOWN ON PLANS GENERICALLY (ROUTED) CONTRACTOR TO VERIFY EXISTING BEST ROUTE TO FOLLOW.  
 2. OTHER CARRIER EQUIPMENT NOT SHOWN FOR CLARITY.



**NEW EQUIPMENT LAYOUT**

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**SITE TYPE: MONOPOLE**  
**SBA SITE ID: WA48195-A**

SHEET TITLE  
**EQUIPMENT LAYOUT**

SHEET NUMBER  
**A-2.0**



	ANTENNA MAKE	RAD CENTER	AZIMUTH	RADIO MODEL	CABLE TYPE	CABLE LENGTH
< 1	ANDREW VHLPX4-180	48"0	130'-0"	305°	CERAGON ODU	(2) 1/2" COAX ±160'

- NOTES TO CONTRACTOR:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE GENERAL EQUIPMENT FIELD CONDITIONS AS SHOWN ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CARRIER, ARCHITECT/ENGINEER, AND ANY OTHERS LISTED ON T-1 PROJECT TEAM CONTACTS PROVIDED.
  - CONTRACTOR IS TO REFER TO CARRIER'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
  - CABLE LENGTHS WERE BASED OFF CARRIER PROVIDED RFDS. CONTRACTOR TO VERIFY LENGTH DURING PRE-CONSTRUCTION WALK.
  - CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM.
  - FINAL STRUCTURAL DESIGN, ANALYSIS AND APPROVAL PROVIDED BY OTHERS. CONTRACTOR TO VERIFY EQUIPMENT INSTALLED IS PER FINAL STRUCTURAL ANALYSIS :  
BY: TBD  
DATED: TBD
  - FINAL MOUNT DESIGN, ANALYSIS, AND APPROVAL PROVIDED BY OTHERS. CONTRACTOR TO VERIFY EQUIPMENT INSTALLED IS PER FINAL ANTENNA MOUNT ANALYSIS:  
BY: TBD  
DATED: TBD



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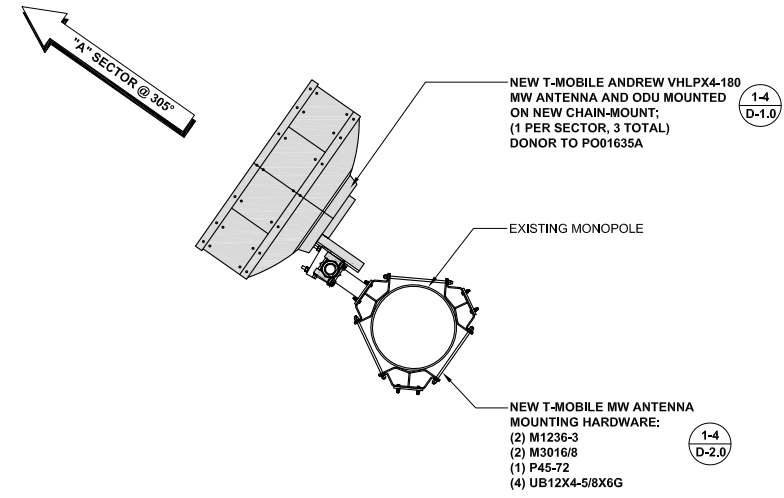


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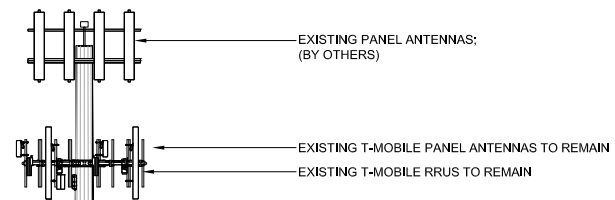
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SHEET TITLE  
**ANTENNA LAYOUT**

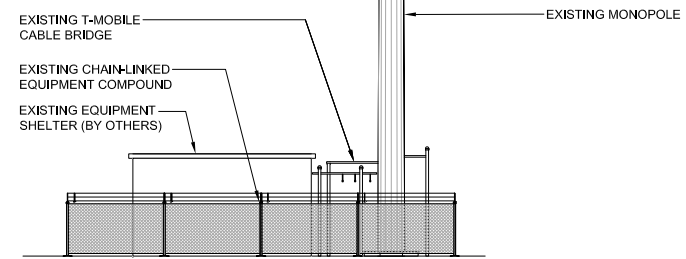
SHEET NUMBER  
**A-3.0**



TOP OF EXISTING MONOPOLE  
 ±150'-0" A.G.L.  
 RAD CENTER OF EXISTING PANEL ANTENNAS (BY OTHERS)  
 150'-0" A.G.L.  
 RAD CENTER OF EXISTING T-MOBILE PANEL ANTENNAS  
 137'-0" A.G.L.



FINISH GRADE  
 ELEV. 0'-0" REF.

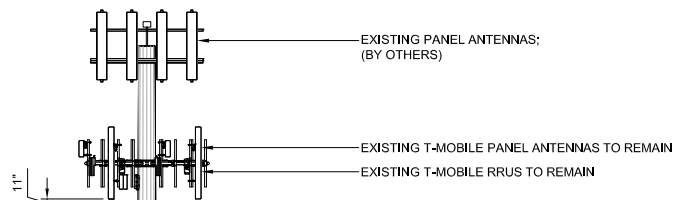


**EXISTING WEST ELEVATION**

24"x36" SCALE: 3/32" = 1'-0"  
 11"x17" SCALE: 3/64" = 1'-0"  
 0" 4" 8" 16"

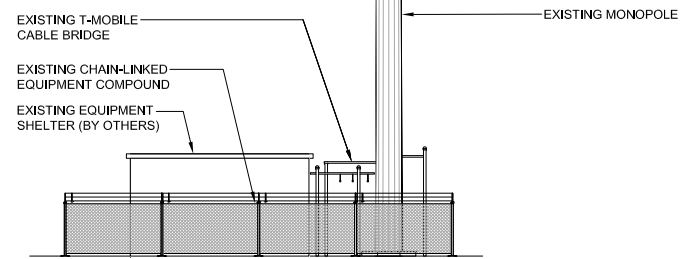
**1**

TOP OF EXISTING MONOPOLE  
 ±150'-0" A.G.L.  
 RAD CENTER OF EXISTING PANEL ANTENNAS (BY OTHERS)  
 150'-0" A.G.L.  
 RAD CENTER OF EXISTING T-MOBILE PANEL ANTENNAS  
 137'-0" A.G.L.  
 RAD CENTER OF NEW T-MOBILE MW ANTENNAS  
 130'-0" A.G.L.



NEW T-MOBILE MW ANTENNA  
 DONOR TO PO01635A  
 NEW T-MOBILE MW ANTENNA  
 MOUNTING HARDWARE:  
 (2) M1236-3  
 (2) M3016/8  
 (1) P45-72  
 (4) UB12X4-5/8X6G

FINISH GRADE  
 ELEV. 0'-0" REF.



**NEW WEST ELEVATION**

24"x36" SCALE: 1/8" = 1'-0"  
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 0" 4" 8" 16"

**2**

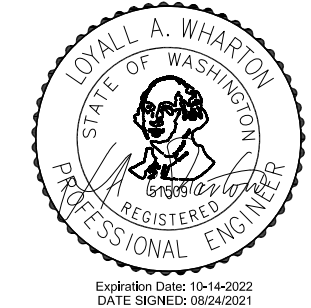
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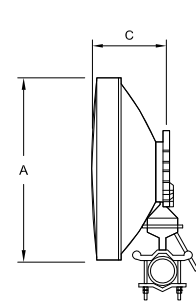
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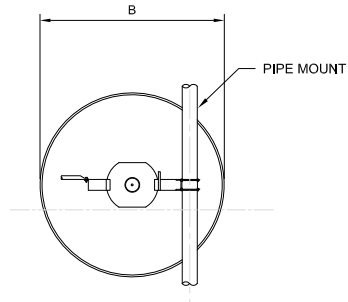
SHEET TITLE  
**ELEVATIONS**

SHEET NUMBER  
**A-4.0**

MANUFACTURER:		COMMSCOPE
MODEL NO.:		VHLPX4-180
DIMENSIONS:		TOTAL WEIGHT :
A	48"Ø	126 LBS



TOP VIEW



BACK VIEW

**COMMSCOPE / VHLPX4-180**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**1 NOT USED**

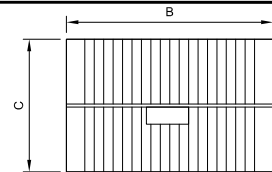
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**4 NOT USED**

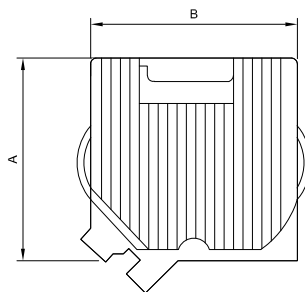
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**7**

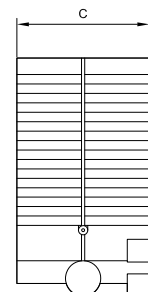
MANUFACTURER:		CERAGON
MODEL NO.:		IP20C-11-249-256
DIMENSIONS:		TOTAL WEIGHT :
A	9.05"	14.33 LBS
B	9.07"	
C	3.86"	



PLAN VIEW



FRONT VIEW



SIDE VIEW

**ODU DETAIL**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**2 NOT USED**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**5 NOT USED**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**8**

**NOT USED**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**3 NOT USED**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**6 NOT USED**

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**9**

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SHEET NUMBER  
**D-1.0**





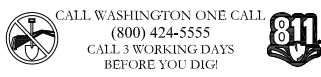
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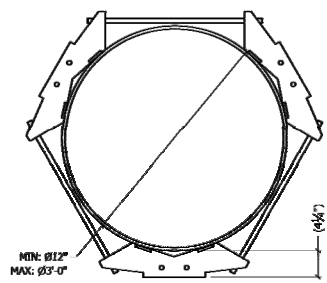
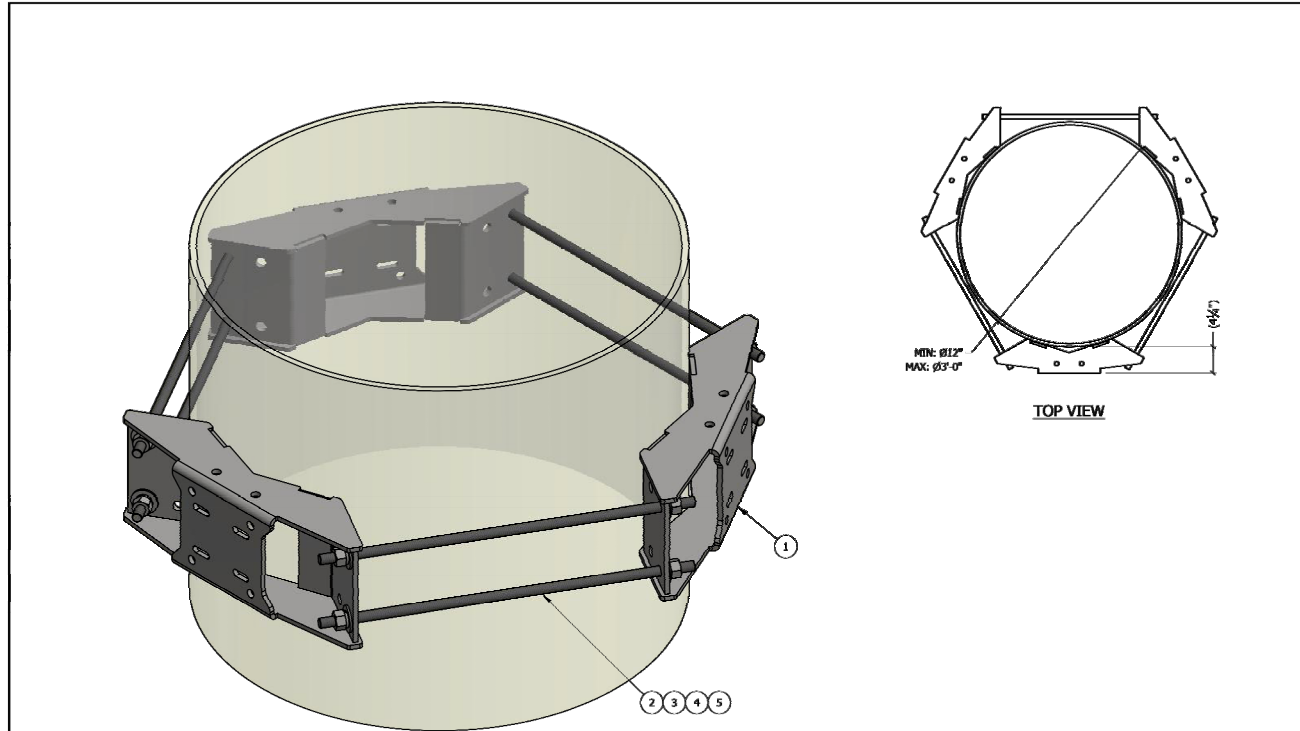
T-MOBILE SITE ID: PO01625E  
SITE NAME:  
WOODLAND DOWNTOWN  
ADDRESS: 271 NORTH PEKIN ROAD,  
WOODLAND, WA 98674  
SITE TYPE: MONOPOLE  
SBA SITE ID: WA48195-A

SHEET TITLE

DETAILS

SHEET NUMBER

D-2.0



TOP VIEW

ITEM	PART #	QTY	DESCRIPTION	LENGTH	FINISH	UNIT WT
1	M1236-3.01	3	UNIV. 12" TO 36" OD RING MOUNT WELDMENT		HDG	38.96
2	27-5580-005	6	3/4" x 28" B7 HDG ALL-THREAD	2'-4"		3.51
3	27-5481-005	12	3/4" A36 HDG FLAT WASHER			0.11
4	27-5490-005	12	3/4" HDG LOCK WASHER			0.04
5	27-5500-005	12	3/4" HDG HEAVY HEX NUT			0.21

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**STANDARD TOLERANCES:**  
(UNLESS OTHERWISE NOTED)  
FRACTIONS ±1/16"  
DECIMALS ±0.01"  
ANGLES ±0.5°

**NEWAVE**  
TOWER COMPONENTS, 503-792-3739  
10910 PORTLAND RD. BROOKS, OR 97305

TOTAL WT: 142.3 LB

QTY:

FINISH:

JOB #:

TITLE: 3-SECTOR UNIVERSAL RING MOUNT  
FITS 12" TO 36" OD POLE

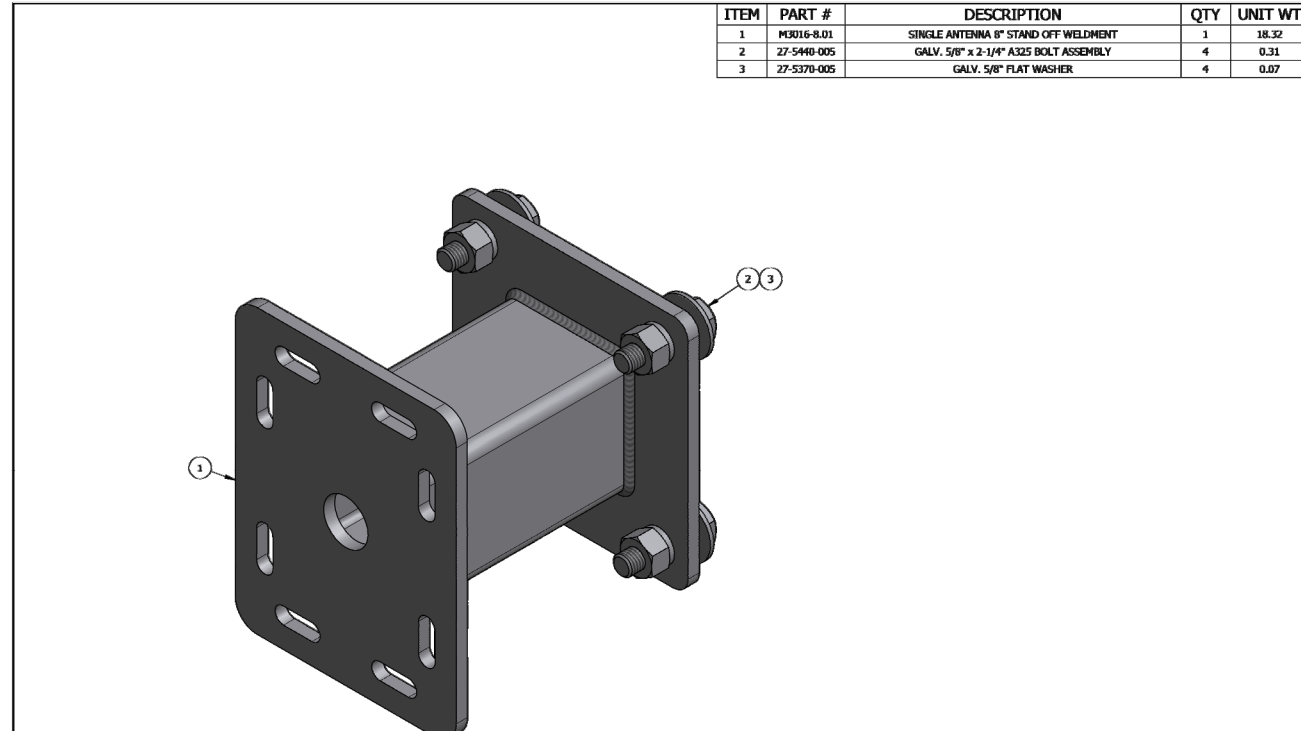
SERIES: MONOPOLE MOUNTING

DRAWN BY: KY DATE: 1/20/2020

CHKD BY: JG

DRAWING NO. M1236-3

SHEET: 1 OF 1



ITEM	PART #	DESCRIPTION	QTY	UNIT WT
1	M3016-8.01	SINGLE ANTENNA 8" STAND OFF WELDMENT	1	18.32
2	27-5440-005	GALV. 5/8" x 2-1/4" A325 BOLT ASSEMBLY	4	0.31
3	27-5370-005	GALV. 5/8" FLAT WASHER	4	0.07

QTY:

CHK:

**STANDARD TOLERANCES:**  
(UNLESS OTHERWISE NOTED)  
FRACTIONS ±1/16"  
DECIMALS ±.005"  
ANGLES ±.5°

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**NEWAVE**  
TOWER COMPONENTS, 503-792-3739  
10910 PORTLAND RD. BROOKS, OR 97305

MATERIAL: AS SHOWN

HOLES: AS SHOWN

FINISH: HDG

DRAWN BY: KY

CHECKED BY:

DATE: 12/26/2013

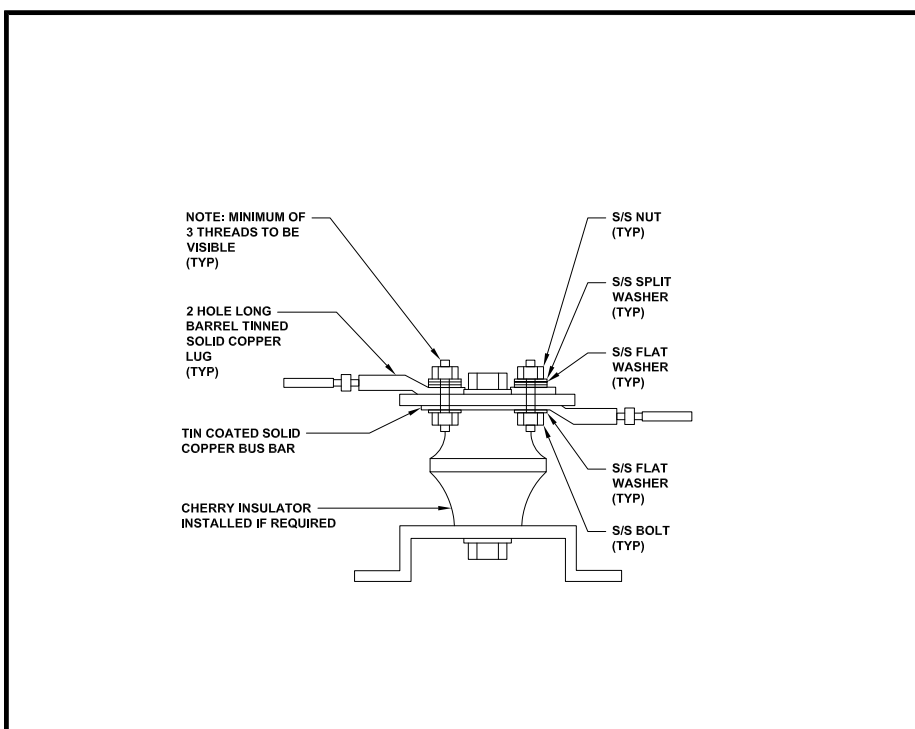
TITLE: 8" STAND OFF FOR RING MOUNT

SERIES: MONOPOLE MOUNTING

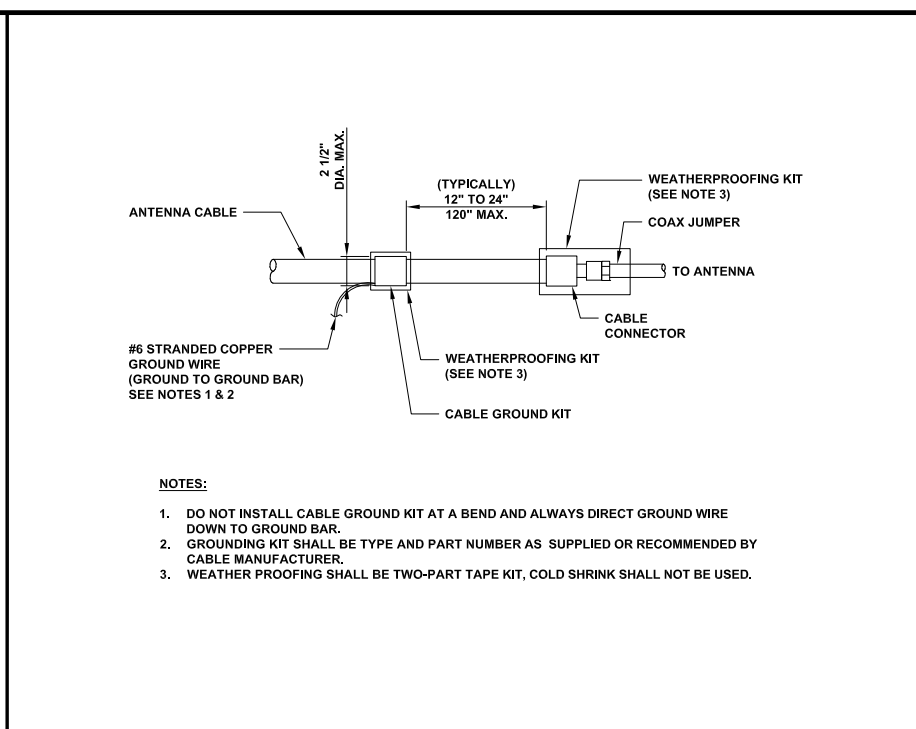
PART WT (BARE): 20.5 LB

DRAWING NO. M3016-8

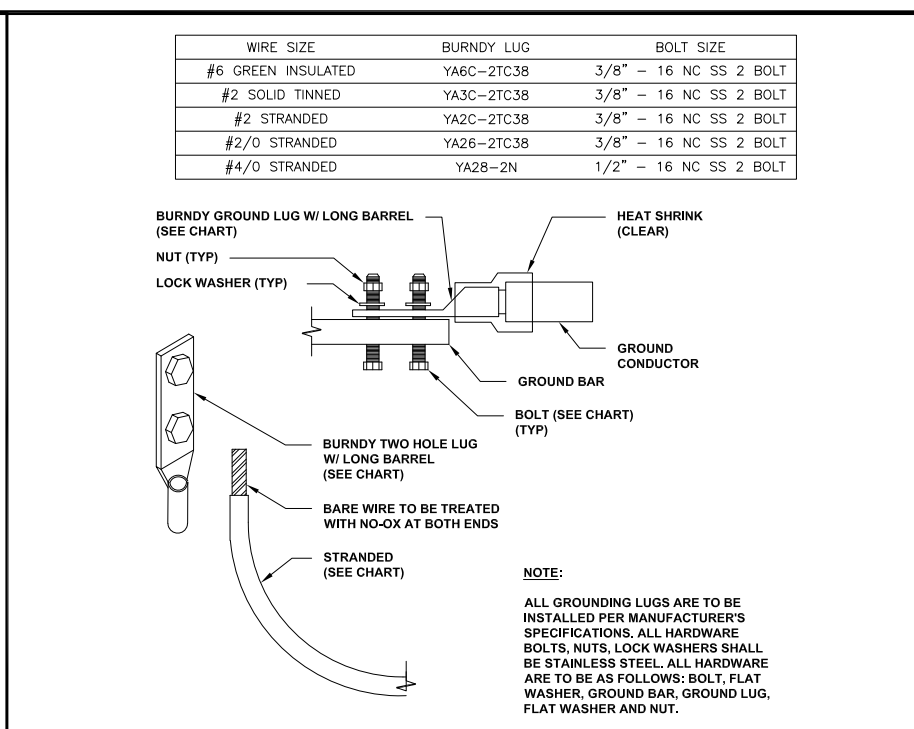
SHEET: 1 OF 1



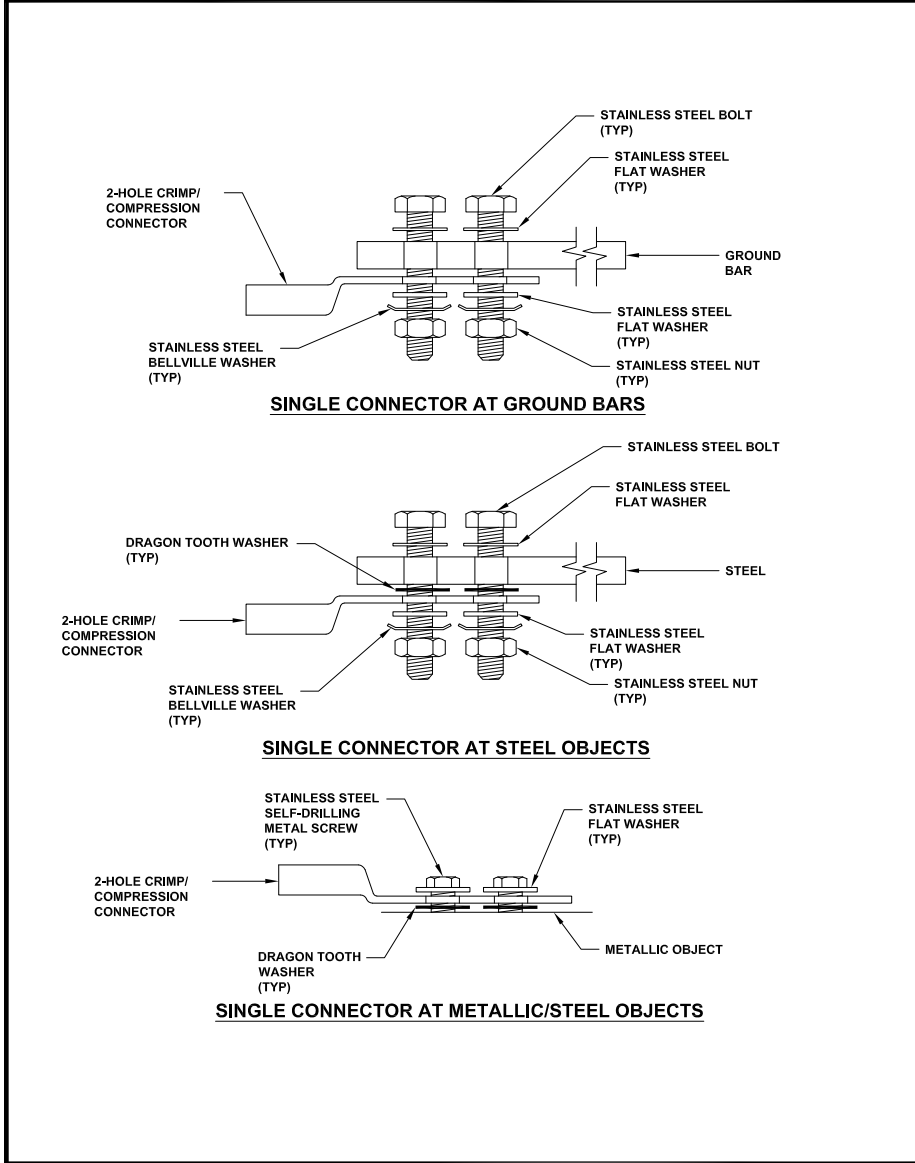
**LUG DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



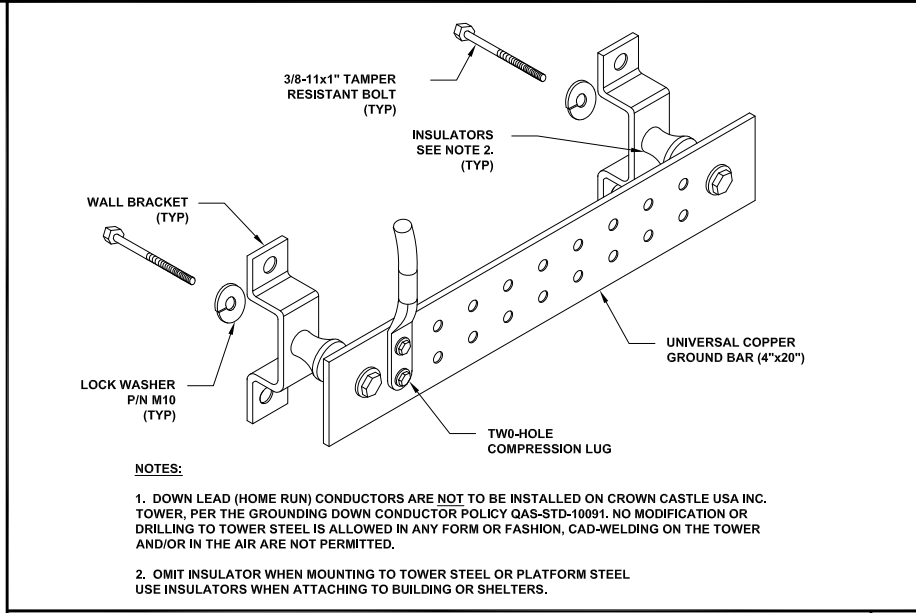
**8 CABLE GROUND KIT CONNECTION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



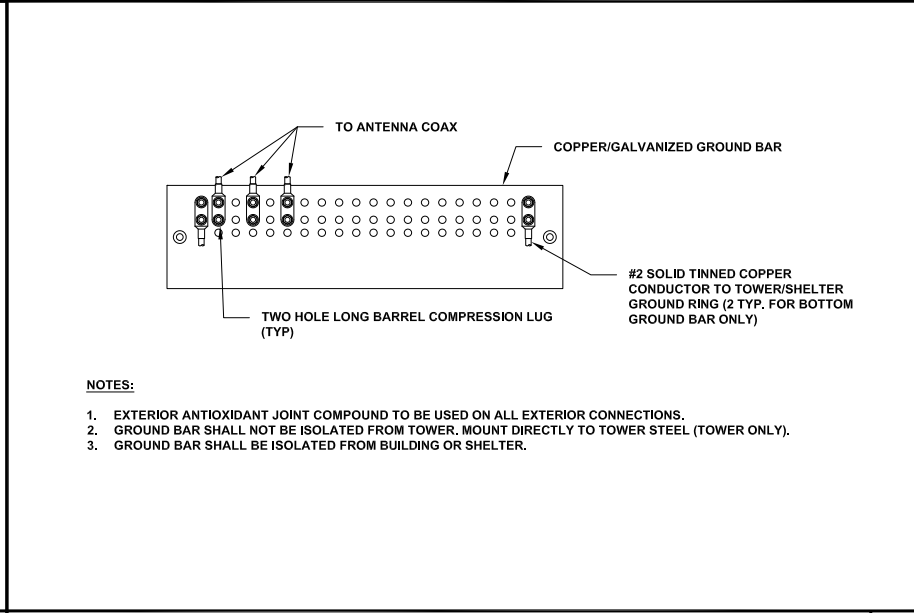
**6 MECHANICAL LUG CONNECTION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



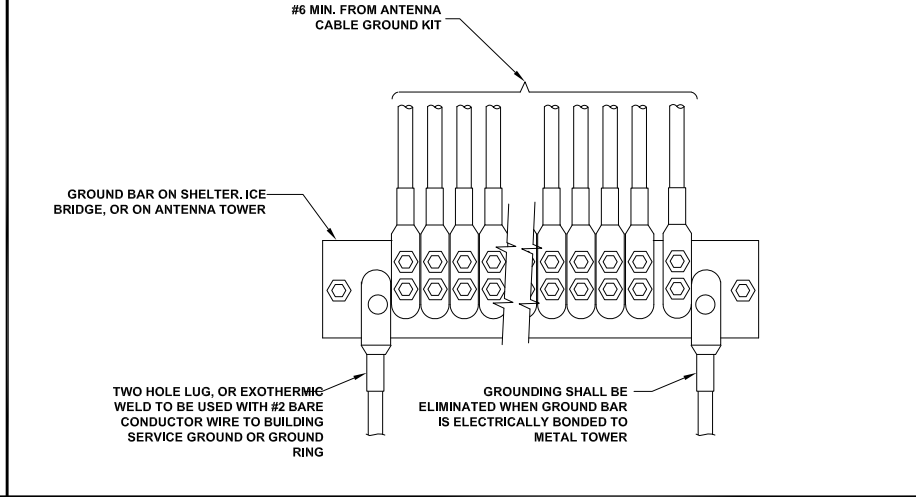
**7 EXTERIOR CONNECTIONS DETAILS** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



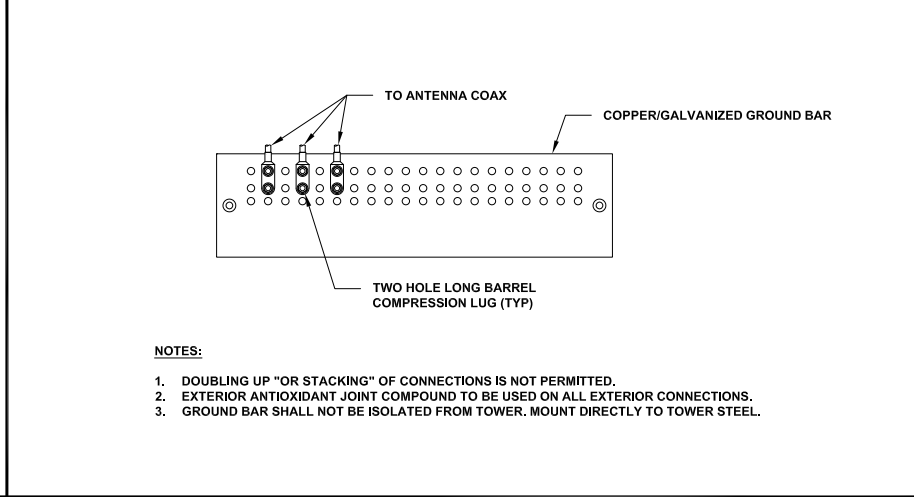
**5 GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**2 TOWER/SHELTER GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**4 GROUNDWIRE INSTALLATION** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS



**1 ANTENNA GROUND BAR DETAIL** 24"x36" SCALE: NTS  
11"x17" SCALE: NTS

**T-Mobile**  
8960 ALDERWOOD ROAD  
PORTLAND, OR 97220

**SBA**  
959 SOUTH COAST DR. SUITE 200  
COSTA MESA, CA 92626

**M SQUARE WIRELESS**  
1387 CALLE AVANZADO  
SAN CLEMENTE CA 92673 (949) 391-8824

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CALL 3 WORKING DAYS BEFORE YOU DIG!

REV	DATE	DESCRIPTION	BY
B	08/24/2021	100% CD'S FOR SUBMITTAL	DGM
A	07/28/2021	90% CD'S FOR REVIEW	MBP

**LOYAL A. WHARTON**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
Expiration Date: 10-14-2022  
DATE SIGNED: 08/24/2021

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WOODLAND, WA 98674  
SITE TYPE: MONOPOLE  
SBA SITE ID: WA48195-A

SHEET TITLE  
**GROUNDING DETAILS**

SHEET NUMBER  
**G-1.0**