

Market: FLORIDA
Cell Site Number: 71360
Cell Site Name: WEST VERO
Fixed Asset Number: 10032101

REINSTATEMENT AND RATIFICATION OF AND FOURTH AMENDMENT TO ELEVATED WATER TANK SPACE LICENSE AGREEMENT

THIS THIS REINSTATEMENT AND RATIFICATION OF AND FOURTH AMENDMENT TO ELEVATED WATER TANK SPACE LICENSE AGREEMENT ("**Fourth Amendment**"), dated as of the latter of the signature dates below (the "Effective Date"), to that certain Elevated Water Tank Space License Agreement dated March 23, 2004 ("Agreement") as amended by the First Amendment to Elevated Water Tank Space License Agreement, dated September 10, 2013 ("First Amendment"), and the Second Amendment to Elevated Water Tank Space License Agreement dated October 20, 2015 ("Second Amendment"), and the Third Amendment to Elevated Water Tank Space License Agreement dated November 15, 2016 ("Third Amendment"), by and between Indian River County, a political subdivision of the State of Florida, having a mailing address of 1801 27th Street, Vero Beach, Florida 32960 ("**Licensor**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd NE, 3rd Floor, Atlanta, GA 30319 ("**Licensee**").

RECITALS

WHEREAS, on March 23, 2004, Licensor and Licensee's predecessor in interest entered into the Agreement in which Licensor authorized certain use of the Land and Water Elevated Tank, located at 1805 58th Avenue in Indian River County ("Property") as set forth more fully therein which Agreement was amended by the First Amendment, Second Amendment, and the Third Amendment (collectively the "Agreement"); and

WHEREAS, the term of the Agreement expired on March 28, 2024, and Licensor acknowledges that Licensee has been occupying the Premises on a month-to-month basis and Licensor has accepted License Fees during such month-to-month basis from Licensee and the parties mutually desire to renew the Agreement, memorialize such renewal period and modify the Agreement in other respects as set forth herein; and

WHEREAS, Licensee desires to install and operate Additional Radio Communication Equipment on the Land and Elevated Tank, which equipment is described more fully on Exhibit G attached hereto ("Additional Radio Communication Equipment"); and

WHEREAS, Licensor and Licensee desire to adjust the License Fee in conjunction with the modifications to the Agreement contained herein; and

WHEREAS, Licensor and Licensee desire to amend the Agreement to modify the notice section thereof; and

WHEREAS, Licensor and Licensee desire to amend the Agreement to permit Licensee to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including but not limited to emergency 911 communication services; and

WHEREAS, Licensor and Licensee, in their mutual interest, wish to amend the Agreement as set forth below accordingly.

NOW THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Licensor and Licensee agree as follows:

1. **Reinstatement, Ratification, and Recitals.** The above recitals are true and correct, and are incorporated herein as if fully repeated, The Agreement is reinstated, ratified and confirmed, as amended herein, as of the Effective Date

2. **Additional Radio Communication Equipment.** Licensee shall have the right to install and operate Additional Radio Communication Equipment as more fully described in Exhibit G, subject to the remaining terms of the Agreement and this Fourth Amendment. Installation of the Additional Radio Communication Equipment shall be in accordance with the construction drawings previously submitted by Licensee and approved by Licensor's outside contractor ("CDs") attached herein in Exhibit G, though the actual types, numbers, mounting positions and locations are illustrative and may vary from what is shown. Said CDs shall also reflect any existing equipment that will remain on the Land and Elevated Water Tank. Licensee shall be responsible for all permits and assurances that installation of the Additional Radio Communication Equipment meets all applicable building codes and zoning requirements. Licensor authorizes Licensee to prepare, execute, and file all required applications to obtain any government approvals for Licensee's use of the Land and Elevated Water Tank under this Agreement. No later than ninety (90) days after installation of the Additional Radio Communication Equipment, Licensee shall obtain an inspection conducted by Licensor's outside contractor of all equipment and the installation of the Additional Radio Communication Equipment to confirm compliance with the approved CDs. Licensee shall be responsible for the cost of such an inspection with that cost to be limited to the lesser of three (3) quotes. Any material non-compliance with the approved CDs shall be corrected immediately. No later than ninety (90) days after installation of Additional Radio Communication Equipment, Licensee shall hire Licensor's outside contractor at Licensee's expense, to perform any touch up to paint and finishes that were affected by installation of the Additional Radio Communication Equipment or relocation of existing equipment. Licensee shall be responsible for the cost of such paint and finish touchups with the cost of such to be limited to the lesser of three (3) quotes. A copy of the final inspection report shall be submitted to the Licensor within twenty (20) days of the report date.

3. **License Fee.** As partial consideration for this Fourth Amendment, Licensee agrees to pay a License Fee to Licensor in the sum of One Million Twenty Eight Thousand Five Hundred Thirteen and 00/100 Dollars (\$1,028,513.00), payable monthly in Seven Thousand Dollar (\$7,000.00) installments, as such monthly sum is modified by the escalator provision in the Agreement, over a ten (10) year term commencing on the earlier of (i) the first day of the month following the commencement of construction of the modification of Licensee's equipment at the Premises or, (ii) the first day of the month following the day that is sixty (60) days from the full execution of this Fourth Amendment, whichever comes first. Notwithstanding the foregoing, if Licensor exercises any of Licensor's rights to terminate the Agreement, if any, Licensee will be released from any and all of its obligations to pay the License Fee. In addition, Licensee shall be released from any and all of its obligations to pay the License Fee if any of the following shall occur: (a) Licensor is in breach of the Agreement, including but not limited to any default under the terms of the Agreement beyond any applicable grace and cure period; (b) there is a foreclosure of the Property; (c) any existing government permits and/or approvals cannot be obtained or maintained, at no fault of the Licensee; or (d) Licensee terminates the Agreement.

4. **Term of Agreement.** Paragraph 5 of the Agreement is hereby amended to extend the current term for an additional five (5) years, with the option to renew this Agreement for up to three (3) successive five (5) year terms ("Renewal Terms") on the same terms and conditions as set forth in the Agreement, except as otherwise agreed to by both parties. Such Renewal Term(s) shall be deemed automatically exercised unless Licensee notifies Licensor of its intention not to renew this Agreement at least sixty (60) days prior to the expiration of the then-current Renewal Term.

5. **Termination by Licensor.** Section 8(a) of the License Agreement is hereby deleted in its entirety and replaced with the following: "Licensor reserves the right to terminate this Agreement, upon twenty-four (24) months prior notice, if the Property is redeveloped and the Elevated Water Tank is removed.

6. **Notices.** Paragraph 15 of the Agreement is hereby deleted and replaced with the following:

permission to fly over the applicable Property and Premises, and consents to the use of audio and video navigation and recording in connection with the use of the UAS.

9. **Charges.** All charges payable under the Agreement such as utilities and taxes, if applicable, shall be billed by Licensor within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Licensor and shall not be payable by Licensee. The foregoing shall not apply to the License Fee which is due and payable without a requirement that it be billed by Licensor. The provisions of this subsection shall survive the termination or expiration of the Agreement.

10. **Memorandum of Lease.** Either party will, at any time upon fifteen (15) days prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease substantially in the form of the Attachment 1. Either party may record this memorandum at any time, in its absolute discretion.

11. **Other Terms and Conditions Remain.** In the event of any inconsistencies between the Agreement and this Fourth Amendment, the terms of this Fourth Amendment shall control. Except as expressly set forth in this Fourth Amendment, the Agreement otherwise is unmodified and remains in full force and effect. Each reference in the Agreement to itself shall be deemed also to refer to this Fourth Amendment.


12. **Capitalized Terms.** All capitalized terms used but not defined herein shall have the same meanings as defined in the Agreement.

IN WITNESS WHEREOF, the parties have caused this Fourth Amendment to be effective as of the last date written below.


Witnesses:


LICENSEE:

New Cingular Wireless PCS, LLC,
a Delaware limited liability company

By: 
Print Name: MASON Portee

By: AT&T Mobility Corporation
Its: Manager

By: 
Print Name: Connie Chapman

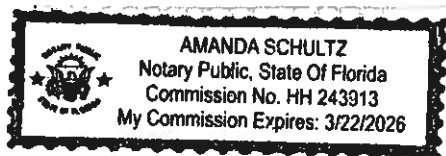
By: 
Print Name: John F. Henry
Its: Assoc. Director
Date: 9/17/2024

STATE OF Florida
COUNTY OF Seminole

On the 17th day of September, 2024, before me, a Notary Public, personally appeared John T. Heagy, as Associate Director of AT&T Mobility Corporation, Manager of New Cingular Wireless PCS, LLC, a Delaware limited liability company, "Licensee," who executed the foregoing instrument on behalf of said entity. Said person is personally known to me, or produced to me a satisfactory evidence in the form of _____, to be the individual whose name is subscribed to the within instrument, and acknowledged to me that (he) (she) executed the same in (his) (her) capacity and that by (his) (her) signature(s) on the instrument, is the individual or the person on behalf of which the individual acted, executed the instrument.

WITNESS my hand and official seal in the state and county last aforesaid.

[Affix Seal]



Amanda Schultz
Notary Public, State of Florida
Print name: Amanda Schultz
Serial number: HH243913
My commission expires: 3/22/2026

ATTEST: Ryan L. Butler, Clerk of Court,
and Comptroller

Licensors:
**INDIAN RIVER COUNTY BOARD OF
COUNTY COMMISSIONERS**

By: _____
Deputy Clerk

By: _____
Susan Adams, Chairman

Approved by BCC: _____

Approved:

Approved as to form and legal sufficiency:

John A. Titkanich, County Administrator

William Debraal, County Attorney

EXHIBIT G
Construction Drawings dated 4/22/2024
Rev. 3

LTE 4TX4RX/5G NR RADIO /5G NR 1SR CBAND CONSTRUCTION DRAWINGS



IWM #:
WSTFL0015684
WSTFL0015702
WSTFL0015743
WSTFL0015678
WSTFL0015694
WSTFL0015670
WSTFL0032556

PAGE #:
MRTFL026044
MRTFL026011
MRTFL026684
MRTFL026043
MRTFL026035
MRTFL026852
MRTFL026289

FA #:
10032101

SITE NAME:
WEST VERO

SITE ADDRESS:
**5850 COLLEGE LANE
VERO BEACH, FL 32966
(INDIAN RIVER COUNTY)**



PROJECT REFERENCES

1. THESE PLANS WERE COMPLETED PER PRELIMINARY/APPROVED LTE NETWORK DESIGN AND CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REQUEST CURRENT RECORDS & WORKBOOK FROM CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
2. THESE PLANS WERE COMPLETED PER MASTEC NETWORK SOLUTIONS MOUNT STRUCTURAL ANALYSIS COMPLETED ON 02/19/2024.
3. THE IE PLANS WERE COMPLETED PER TOWER ENGINEERING SOLUTIONS STRUCTURAL ANALYSIS COMPLETED ON 02/26/2024.

CONSTRUCTION NOTES

1. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
2. CONTRACTOR SHALL NOTIFY OWNER FOR ACCESS TO SITE.
3. THIS PROJECT CONSISTS OF:
 REMOVING (1) ANTENNAS, (2) DOD, (3) 18 PAIR FIBER CABLES
 (4) 185' FROM GROUND, (1) 21.08C0681F 1V1-1
 DIAPHERS FROM GROUND.
 ADDING (6) NEW LTE ANTENNAS, (2) GRAND ANTENNAS, (2) DOD ANTENNAS
 (3) 185' FROM GROUND, (1) 21.08C0681F 1V1-1
 (1) 18 PAIR FIBER CABLES, RELOCATE (3) RUS & (7) 11 TO TOWER AND
 ALL ASSOCIATED WORK.
4. A 185' CRANE IS REQUIRED.

APPROVALS

PROPERTY OWNER	DATE
RF ENGINEER	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE
ZONING	DATE
NETWORK	DATE
OPERATIONS	DATE
CONTRACTOR	DATE

SHEET INDEX

SHEET	DESCRIPTION	REV.	REV. DATE
T-1	TITLE SHEET	3	4/22/2024
C-1	SITE PLAN	3	4/22/2024
C-2	TOWER ELEVATION & ANTENNA LAYOUTS	3	4/22/2024
C-3	EQUIPMENT DETAILS	3	4/22/2024
RF-1	RF EQUIPMENT SCHEDULE	3	4/22/2024
G-1	GROUNDING DETAILS	3	4/22/2024
GH-1	GENERAL NOTES	3	4/22/2024
	PLUMBING DIAGRAMS		
	MOUNT SHEETS ATTACHED		



PROJECT INFORMATION

1. THIS IS AN UNMANNED FACILITY AND WILL BE USED FOR THE TRANSMISSION OF THE RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
2. AT&T CERTIFIES THAT THIS EQUIPMENT FACILITY WILL BE SERVICED ONLY BY AT&T EMPLOYEES AND SUBCONTRACTORS AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE PRECINCTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY.
3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
4. NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
5. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

SITE SUMMARY

SCOPE TYPE	CARRIER ADD
STRUCTURE TYPE	WATER TANK
STRUCTURE HEIGHT	155'
ANTENNA R.E. HEIGHT	100'
OCCUPANCY TYPE	TELECOMMUNICATIONS
STRUCTURE LAT	N 27° 38' 7.4198" - W 77.633384"
STRUCTURE LONG	W 407° 26' 54.5788" - W 40.448404"
JURISDICTION	INDIAN RIVER COUNTY
COUNTY	INDIAN RIVER
PARCEL ID	3339650001 08000002.1

PROJECT DIRECTORY

APPLICANT	AT&T MOBILITY CORP 12150 RESEARCH PARKWAY ORLANDO, FL 32828
TOWER OWNER	INDIAN RIVER 1801 27TH STREET VERO BEACH, FL 32980
SITE DESIGN	MASTEC NETWORK SOLUTIONS 1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518 CONTACT: RAHMAN MOHAMED PHONE: (919) 914-6888



RAHMAN MOHAMED, P.E.
FLORIDA NO. 522646

DATE	DESCRIPTION	REVISED BY
10/24/2022	CONSTRUCTION	0 RM
4/17/2024	CONSTRUCTION	1 RM
4/19/2024	CONSTRUCTION	2 RM
4/22/2024	CONSTRUCTION	3 RM

DRAWN BY: CRM
 CHECKED BY: ORA
 APPROVED BY: ORA
 MNS PROJECT NO: 43384-SEC

THE INFORMATION CONTAINED IN THESE DRAWINGS IS THE PROPERTY OF MASTEC NETWORK SOLUTIONS. REPRODUCTION OR CAUSING TO BE REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MASTEC NETWORK SOLUTIONS IS PROHIBITED.

PREPARED FOR:



PREPARED BY:
Mastec
 Network Solutions
 1151 SE CARY PARKWAY, SUITE 101
 CARY, NC 27518

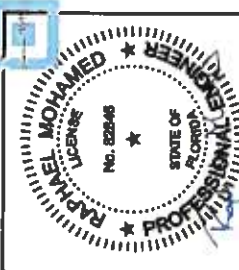
SITE NAME:
WEST VERO

SITE ADDRESS:
**5850 COLLEGE LANE
VERO BEACH, FL 32966**

FA LOCATION:
10032101

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1



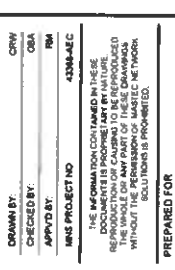
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RAPHAEL MOHAMED, P.E.
FLORIDA NO. 18349 42272024

DATE	DESCRIPTION	REVISIONS BY
10/24/2022	CONSTRUCTION	0 RW
4/17/2024	CONSTRUCTION	1 RW
4/18/2024	CONSTRUCTION	2 RW
4/22/2024	CONSTRUCTION	3 RW

DRAWN BY: CRW
CHECKED BY: OBA
APPROVED BY: RM
MNS PROJECT NO: 423M-42C

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PREPARED BY:
Mastec
Network Solutions
1111 SE CANY, NC 27119

SITE NAME:
WEST VERO

SITE ADDRESS:
**5850 COLLEGE LANE
VERO BEACH, FL 32966**

FA LOCATION:
10032101

SHEET TITLE:
TOWER ELEVATION & ANTENNA LAYOUTS

SHEET NUMBER:
C-2

NOTES:

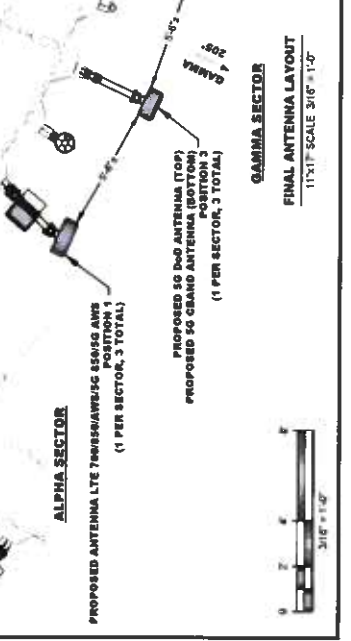
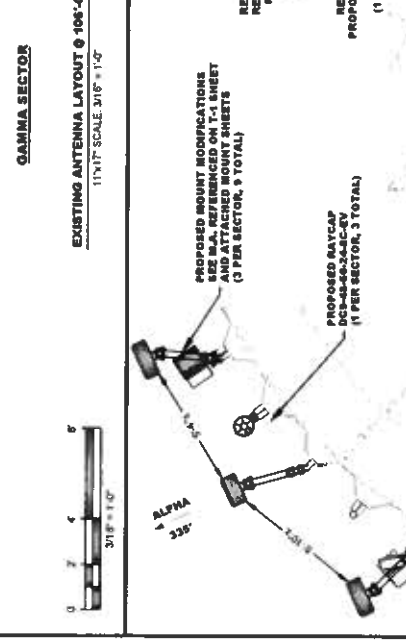
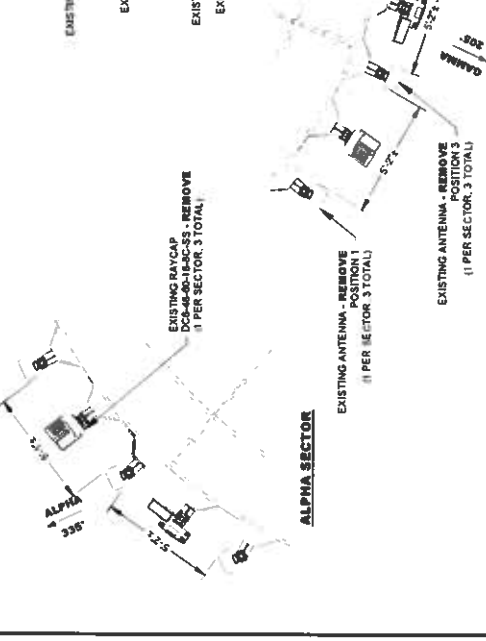
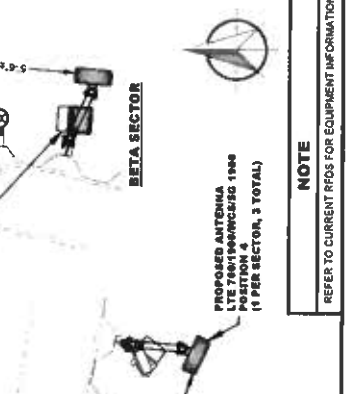
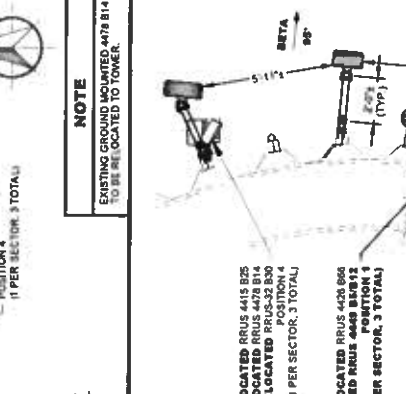
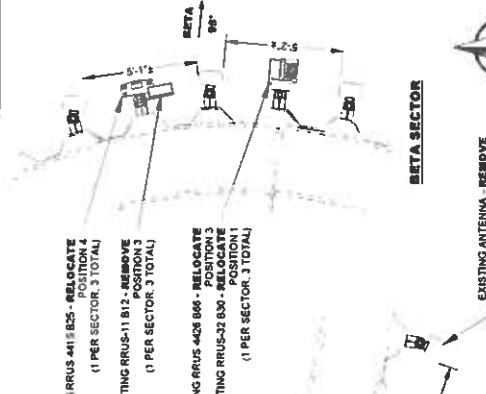
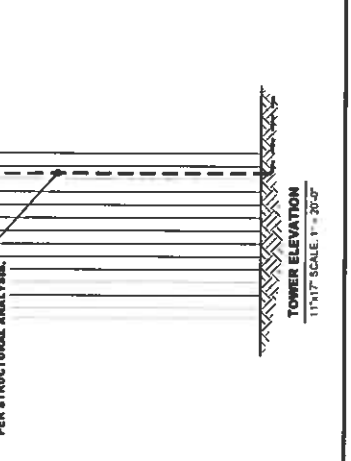
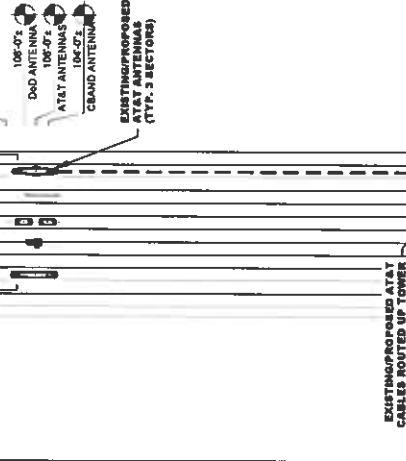
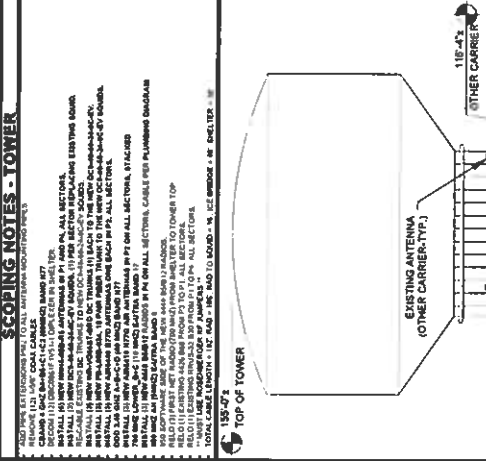
- A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE CONTRACTOR TO CERTIFY THAT THE WEIGHT TO BE SUPPORTED BY THE EXISTING PROPOSED STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL ANTENNAS AND PROPOSED ATTACHMENTS AND COAXIAL CABLES AND OTHER COMPONENTS. THE CONTRACTOR SHALL FURNISH A CERTIFICATION OF THE ANALYSIS TO THE REGISTERED PROFESSIONAL ENGINEER STATING THAT THE ANALYSIS WAS PREPARED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- ALL ANTENNAS, CABLES, AND ATTACHMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STRUCTURAL ANALYSIS REPORT.
- IF ANY WORK IS PERFORMED ON THE SITE TO BE OFF AIR OR TURNED DOWN, THE SWITCH IS TO BE TURNED OFF PRIOR TO CONSTRUCTION WORK.
- INSTALLATION SHALL BE PERFORMED BY THE CONTRACTOR'S CREWS EMPLOYED IN THE ASSEMBLY AND ERECTION OF ALL ANTENNAS, TOWER SUPPORT STRUCTURES, AND ATTACHMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIREMENTS OF THE TOWER MANUFACTURER'S SPECIFICATION.
- MOUNTING AND WIND DESIGN SHALL COMPLY WITH LOCAL CODES.
- CONTRACTOR TO PROVIDE ATTACHMENTS AND JAMPER SUPPORT FOR ANTENNA MOUNTS AND ANTENNA MOUNT.
- VERIFY CURRENT RIDS FOR ALL ANTENNAS AND AS REQUIRED TO ACHIEVE THE AZIMUTH SPECIFIED AND LIMIT RF SHADOWING.
- UNLESS NOTED OTHERWISE PROVIDE ALL MATERIAL NECESSARY.
- CONTRACTOR TO RETURN ALL REMOVED MATERIALS TO THE ORIGINAL LOCATION AND REMOVE TO ATX.
- THE REQUIRED FLASHING MUST NOT BE BLOCKED IN ANY MANNER BY THE ANTENNAS. THE CONTRACTOR SHALL MAINTAIN VISIBILITY MUST BE MAINTAINED.

THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

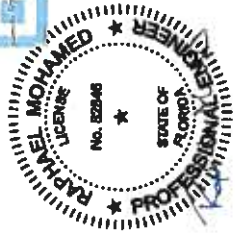
THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE RAYCAP FOR THE TOWER TO ACCOMMODATE THE QUANTITY OF ANTENNAS.

- ALL RAYCAP MOUNTING BRACKETS TO BE FIELD VERIFIED FOR PROPER ALIGNMENT.
- SEE SHEET C-3 FOR RRU MOUNTING BRACKET DETAILS.
- MAINTAIN 3" MIN. SEPARATION BETWEEN FIRST AND LITE 700 ANTENNA SEPARATION.
- INSTALLER TO FIELD VERIFY ANTENNA SEPARATION.
- INSTALLER MAY NEED TO SHIFT ANTENNAS TO OBTAIN REQUIRED MINIMUM SEPARATION BETWEEN ANTENNAS.

11'x17' SCALE: 1" = 30'-0"



REFER TO CURRENT RIDS FOR EQUIPMENT INFORMATION



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 MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
 THIS ITEM HAS BEEN ELECTRONICALLY BOUND AND
 SEALED BY RAFAEL MOHAMED, P.E. USING A DIGITAL
 SIGNATURE.

DATE: 4/22/2024
 PROJECT NO.: 4334-MEC

DATE	DESCRIPTION	REVISIONS
10/24/2023	CONSTRUCTION	0
4/11/2024	CONSTRUCTION	1
4/18/2024	CONSTRUCTION	2
4/22/2024	CONSTRUCTION	3

DRAWN BY: CRW
 CHECKED BY: OSA
 APPROVED BY: RM
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 SOLUTIONS IS PROHIBITED.



PREPARED BY:
Mastec
 Network Solutions
 1151 BC CANYONWAY, SUITE 101
 WEST VERO

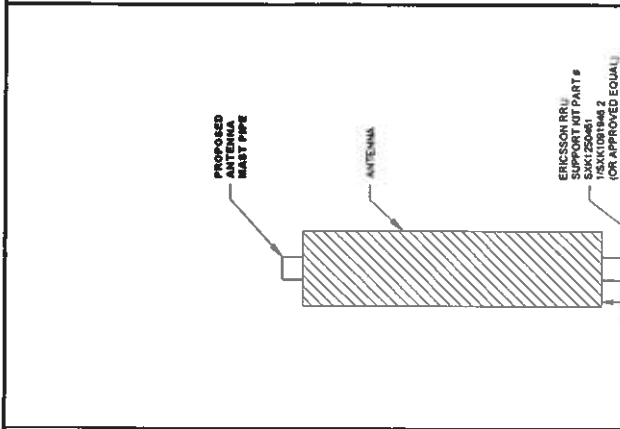
SITE NAME:
WEST VERO

SITE ADDRESS:
**5850 COLLEGE LANE
 VERO BEACH, FL 32966**

FA LOCATION:
10032101

SHEET TITLE:
EQUIPMENT DETAILS

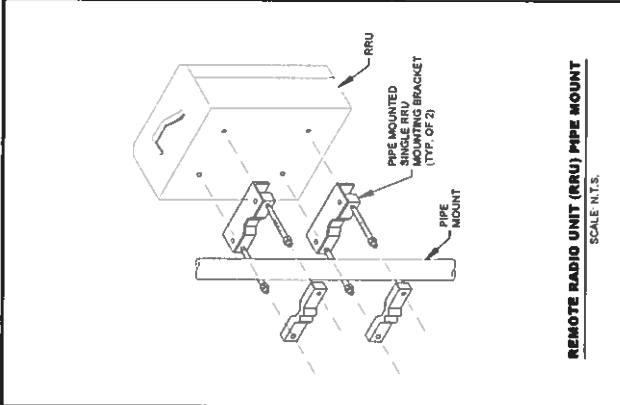
SHEET NUMBER:
C-3



SCALE: N.T.S.

NOTES:
 DETAILS DIAGRAMMATIC CONTRACTOR TO INSTALL RRUS ON
 RRU MOUNT BEST SUITED FOR ANTENNA CONFIGURATION.

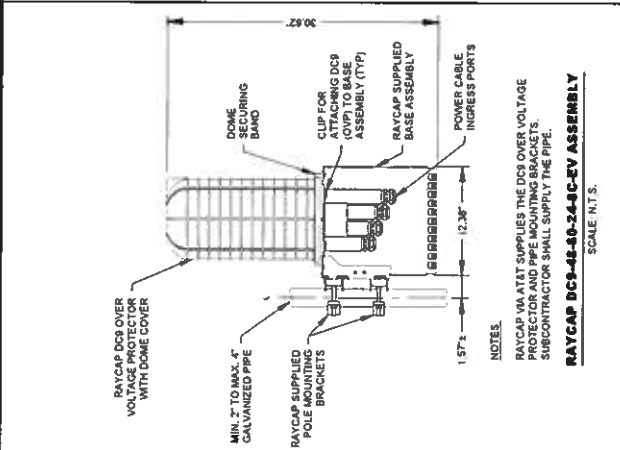
RRU MOUNTING DETAIL ELEVATION VIEW
 SCALE: N.T.S.



SCALE: N.T.S.

NOTE:
 RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

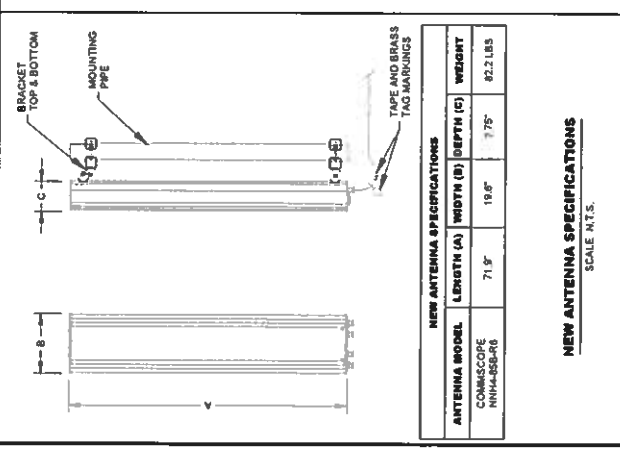
ERICSSON RRU 4448 85B12 DETAIL
 SCALE: N.T.S.



SCALE: N.T.S.

NOTES:
 RAYCAP 04 AT&T SUPPLIES THE DC-48 OVER VOLTAGE
 PROTECTOR FOR THIS ASSEMBLY.
 SUBCONTRACTOR SHALL SUPPLY THE PIPE.

RAYCAP DC-48-40-24-C-RV ASSEMBLY
 SCALE: N.T.S.



SCALE: N.T.S.

NEW ANTENNA SPECIFICATIONS				
ANTENNA MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT
COMMSCOPE NHH4-SS-R6	71.9"	19.6"	7.75"	82.2 LBS



NEW ANTENNA SPECIFICATIONS				
ANTENNA MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT
ERICSSON AUR448 B7D	30.4"	15.9"	8.1"	81.8 LBS
ERICSSON AUR419 B7D	28.0"	15.7"	6.7"	65.1 LBS

SCALE: N.T.S.

NEW ANTENNA SPECIFICATIONS
 SCALE: N.T.S.



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RACHAEL MOHAMED, P.E.
FLORIDA REG. NO. 42277024

SUBMITTALS		
DATE	DESCRIPTION	REVISIONS BY
10/24/2023	CONSTRUCTION	0 RM
4/17/2024	CONSTRUCTION	1 RM
4/19/2024	CONSTRUCTION	2 RM
4/22/2024	CONSTRUCTION	3 RM

DRAWN BY: CRVY
 CHECKED BY: CBA
 APPROVED BY: RM
 MNS PROJECT NO: 4388-4EC

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PREPARED BY:
Mastec
 Network Solutions
 110 BE CONWAY BLVD STE 101
 GAITHERSBURG, MD 20878

SITE NAME:
WEST VERO

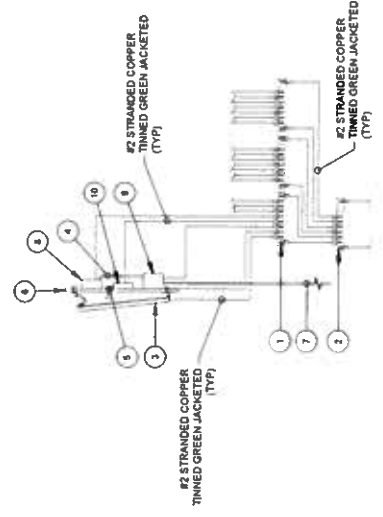
SITE ADDRESS:
**8950 COLLEGE LANE
 VERO BEACH, FL 32966**

FA LOCATION:
10032101

SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G-1

- METHOD LEGEND:**
1. AT&T COLLECTOR GROUND BAR.
 2. SINGLE PAIR FIBER & DC POWER.
 3. REMOTE RADIO HEAD (RRH) (IF APPLICABLE).
 4. DC RAYCAP SURGE SUPPRESSOR (IF APPLICABLE).
 5. FILTER (IF APPLICABLE).
 6. DC POWER & FIBER TO RAYCAP UNIT.
 7. REMOTE RADIO HEAD (RRH) (IF APPLICABLE).
 8. DC RAYCAP SURGE SUPPRESSOR (IF APPLICABLE).
 9. FILTER (IF APPLICABLE).
 10. DC POWER & FIBER TO RAYCAP UNIT.

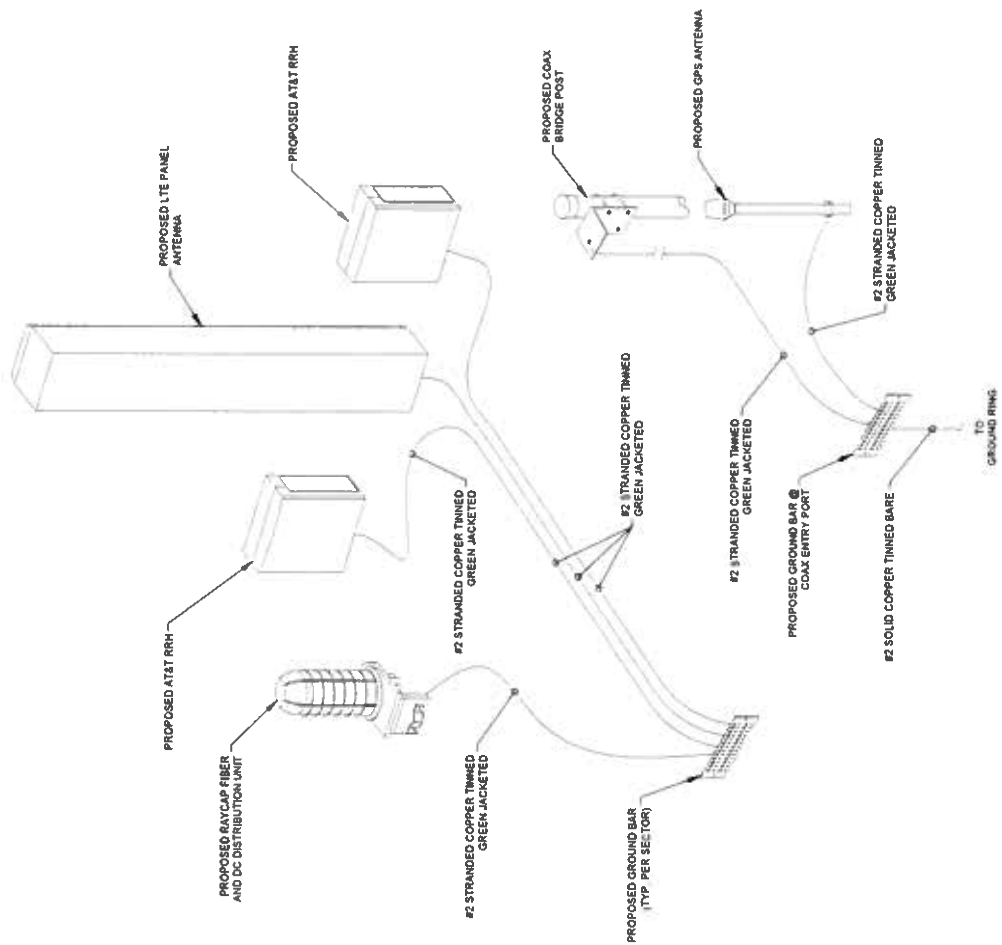


1. UTILIZE EXISTING AT&T GROUND BARS AND GROUNDING.
2. ADD GROUND BARS IF THERE ARE INSUFFICIENT LUG POSITIONS.
3. REFERENCE AT&T BONDING & GROUNDING PRACTICE TP78416

ANTENNA GROUNDING SCHEMATIC
 SCALE: N.T.S.

NOTES:

1. CONTRACTOR SHALL REFER TO AT&T GROUNDING AND BONDING PRACTICE TP78416.
2. PROVIDE CABLE SHIELD TO EXTERNAL MATCH PLATE GROUND BAR.
3. PROVIDE GROUND CONNECTION FOR DC POWER CABLE SHIELD TO 7" SECTION OF SINGLE WIRING SHELTER.



GROUNDING DETAIL
 SCALE: N.T.S.

MOUNT REINFORCEMENT DRAWINGS PREPARED FOR AT&T

SITE NAME: WEST VERO
SITE NUMBER: FLFPU1005
FA#: 10032101

SITE ADDRESS:
5850 COLLEGE LANE, VERO BEACH,
INDIAN RIVER COUNTY, FL 32966

PROJECT CONTACTS:

- PROJECT MANAGER
ARNALDO CARRASQUILLO
787-477-3414
ARNALDO.CARRASQUILLO@MASTEC.COM
- DESIGN ENGINEER - MAIN RFI CONTACT
VLADIMIR BLANCHARD
VLADIMIR.BLANCHARD@MASTEC.COM
- ENGINEER OF RECORD
RAPHAEL I. MOHAMED, PE, PE'ng
919-674-5895
1151 SE CARY PKWY
SUITE 101
CARY, NC 27518
RAPHAEL.MOHAMED@MASTEC.COM
- FOR FABRICATION AND CONSTRUCTION
RELATED INQUIRIES: CONTACT MASTEC
DESIGN ENGINEER AND ENGINEER OF RECORD

TOWER INFORMATION

TOWER HEIGHT / TYPE: 155 FT WATER TANK TOWER
MOUNT HEIGHT/TYPE: 106 FT RAD CENTER

TOWER LOCATION: LAT: 27.6354°
LONG: -80.4485°

PREVIOUS ANALYSIS FIRM NAME: MASTEC NETWORK SOLUTIONS
PROJECT NUMBER: 43368-MNT1

PASSING ANALYSIS FIRM NAME: MASTEC NETWORK SOLUTIONS
PROJECT NUMBER: 43368-MMD2

CODE COMPLIANCE

ANSI/TIA-222-H
2023 FLORIDA BUILDING CODE, 8TH EDITION

DRAWINGS INCLUDED

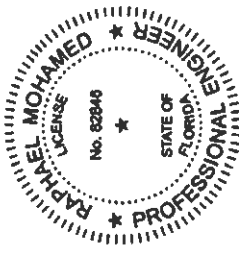
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
T-1	TITLE SHEET		
N-1	MODIFICATION INSPECTION CHECKLIST		
N-2	GENERAL NOTES		
S-1	MODIFICATION SCHEDULE		
S-2	MOUNT PIPE INSTALLATION DETAILS		
S-3	STANDOFF MOUNT INSTALLATION DETAILS		
A-1	MANUFACTURER SPECIFICATIONS I		

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE FROM
MASTEC NETWORK SOLUTIONS TO ASSIST CONTRACTORS IN
CLASS IV RIGGING PLAN REVIEWS. FOR REQUESTED
QUALIFIED ENGINEERING SERVICES, PLEASE CONTACT
RAPHAEL MOHAMED AT (919) 244-5207.

NO.	DATE	DESCRIPTION	BY
0	02/13/24	SECOND ISSUE	VB
0	05/06/23	FIRST ISSUE	VB

MASTEC Network Solutions
151 SE CARY PKWY, SUITE 101
CARY, NC 27518
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SITE NAME: WEST VERO
SITE NUMBER: FLFPU1005
FA NUMBER: 10032101
MNS ENG. NUMBER: 43368 - MMD1
SITE ADDRESS: 5850 COLLEGE LANE VERO BEACH
INDIAN RIVER COUNTY FL 32966
DRAWN BY: VB
CHECKED BY: HDN
APPROVED BY: RM
SCALE: N.T.S.



RAPHAEL I. MOHAMED, PE, PE'ng
SERIOUS OFFENSE
FL PE LICENSE NO. 82846, FL CCA NO. 32141
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

TITLE SHEET
T-1 0

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
N/A	EOB APPROVAL
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
N/A	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NODE INSPECTION
N/A	NODE REPORT OF BASE PLATE
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	CONTINUOUS FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	GROUT COMP. STRENGTH (ASTM C109)
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NODE REPORTS
N/A	EARTHWORK, LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PMI REPORT
 N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PMI REPORT

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF THE TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT CONTACT WILL BE PROACTIVE REGARDING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR POINT OF CONTACT (POC).

MI INSPECTOR:

1. THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM
 REVIEW THE REQUIREMENTS OF THE MI CHECKLIST WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
2. THE MI IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTORS (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM
 • REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
 • WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
 • BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.
 2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

MI VERIFICATION INSPECTIONS:

VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A PHOTOGRAPH IS COMPLETED, AS MARKED BY THE GC OF AN ACCEPTED "PASSING" MI OR "PASS" AS NOTED IN REPORT FOR THE ORIGINAL PROJECT.

SELECTED PHOTOS:

- BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT
- PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION RECTIONS AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL IN FIELD CONDITIONS

PHOTOS OF ELEVATED MODIFICATION TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

CONNECTION OF FAILING M.I.'S:
 IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI (FAILED MI), THE GC SHALL WORK WITH THE TOWER OWNER TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:


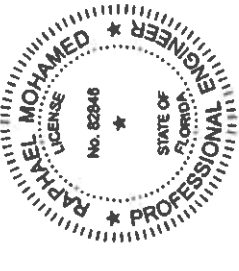
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.
- OR, THE GC MAY WORK WITH THE EOR TO REANALYZE THE MODIFICATION ENFORCEMENT USING THE AS-BUILT CONDITION.

RECOMMENDATIONS:

- THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING A MI REPORT
- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
 - THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
 - IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ONE SITE VISIT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE VISIT. THE MI INSPECTOR WILL BE RESPONSIBLE FOR NOTIFYING THE GC CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MI:

IF THE GC AND MI INSPECTOR AGREE TO A DATE ON WHICH THE MI WILL BE CONDUCTED, THE GC SHALL NOT CANCEL OR DELAY. TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY PART CANCELLATION OR DELAY INCURRED BY EITHER PARTY RELATED TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME (E.G. TRAVEL AND LODGING COSTS OF KEEPING EQUIPMENT ON-SITE, ETC.). IF TOWER OWNER CONTRACTS DIRECTLY FOR A THIRD PARTY MI, EXCEPTIONS MAY BE MADE IN THE EVENT THAT THE DELAY/CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTY INVOLVED.

			
<small>151 TEAKWOOD DRIVE SUITE 101 CARY, NC 27513</small>			
<small>THE ASSOCIATION OF PROFESSIONAL ENGINEERS (APE) HAS REVIEWED THIS DOCUMENT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BOARD OF PROFESSIONAL ENGINEERS OF THE STATE OF FLORIDA. THIS DOCUMENT IS PROVIDED BY MASTEC NETWORK SOLUTIONS II. THE SE, DRAWINGS WITHOUT THE PERMISSION OF MASTEC NETWORK SOLUTIONS II.</small>			
NO.	DATE	DESCRIPTION	BY
0	02/13/24	SECOND ISSUE	VB
0	05/06/23	FIRST ISSUE	VB
<div style="text-align: center;">  </div>			
SITE NAME WEST VERO SITE NUMBER FLFP1005 FA NUMBER 10032101 MNS ENG. NUMBER 43368 - MMD1		SITE ADDRESS 1500 JEFFERSON LANE, VERO BEACH INDIAN RIVER COUNTY, FL 32986	
DRAWN BY VB		CHECKED BY MDN	
APPROVED BY RM		SCALE N.T.S.	
MODIFICATION INSPECTION CHECKLIST			
RAPHAEL L. MOHAMED, PE, PE-9 SENIOR DIRECTOR OF ENGINEERING FL PE LICENSE NO 82848 FL COA NO. 32141		I HEREBY CERTIFY THAT THIS ENGINEERING REPORT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.	
N-1		REV 0	



GENERAL NOTES:

- ALL WORK PRESENTED IN THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR MUST HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN TOWER ERECTION AND RETROFIT SIMILAR TO THAT DESCRIBED HEREIN.
- ALL CONSTRUCTION IS TO BE COMPLETE IN ACCORDANCE WITH THE ANSISASSE A10.48 AND ANSIFW322 STANDARDS. THE CONTRACTOR MUST HAVE CONSIDERABLE WORKING KNOWLEDGE IN THESE STANDARDS TO ACCEPT THIS WORK. BY ACCEPTING THIS PROJECT THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE, ABILITY, AND KNOWLEDGE OF THE WORK TO BE COMPLETED. THIS WORK IS TO BE PROPERLY LICENSED AND REGISTERED TO COMPLETE THIS WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR MAY PROCEED WITH THE PROJECT.
- ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE CONTRACTOR AND/OR FABRICATOR.
- ALL MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION MUST BE FOLLOWED EXACTLY AS SPECIFIED. WHEN CONFLICTING WITH THESE DRAWINGS, THE MANUFACTURER'S SPECIFICATIONS SHALL GOVERN.
- ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THESE DRAWINGS SHALL BE IN NEW OR GOOD WORKING QUALITY. FREE FROM DEFECTS AND FAILS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL SUBSTITUTIONS MUST BE GIVEN WRITTEN APPROVAL FROM THE EOR PRIOR TO INSTALLATION. ALL MATERIALS SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INTENDED CONSTRUCTION ACTIVITY INCLUDING MATERIALS ACCESS AND SCHEDULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND WILL BE RESPONSIBLE FOR ASSESSING BY ALL REQUIREMENTS AND CONDITIONS OF THE PERMITS. WHEN APPLICABLE, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTION PRIOR TO BEGINNING OF ANY CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS. CONSTRUCTION OF THE PROPOSED WORK SHALL MEET ANSISASSE A10.48, OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING AND CONSTRUCTION SHALL BE PERFORMED BY A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

COLD GALVANIZATION:

- ALL DAMAGED SURFACES SHALL BE REPAIRED WITH A COLD-GALVANIZING COATING CONFORMING TO ASTM 780. THIS COATING SHALL BE APPLIED BY BRUSH. THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 4 MILS.
 - CONTRACTOR TO USE ZINGA OR ZRC COLD GALVANIZATION COMPOUNDS OR APPROVED EQUIVALENTS.
 - CLEAN AREAS TO BE PREPARED AND REMOVE SLAG FROM WELDS FOR TREATMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - IF THE TOWER IS PAINTED, ALL TREATED AREAS ARE TO BE BRUSH PAINTED TO MATCH THE TOWER AFTER COLD GALVANIZING COMPOUND IS ALLOWED TO CURE.
- U-BOLTS:**
- ALL U-BOLTS ARE TO BE ASTM A588/307, SAE 429 GR. 2 UNLESS OTHERWISE SPECIFIED.
 - U-BOLTS SHALL MEET REQUIREMENTS OF ASME B 18.31.5-2011 BENT BOLTS.
 - U-BOLT ASSEMBLY SHALL COME COMPLETE WITH NUTS (ASTM A563), WASHERS (ASTM F438), AND LOCK WASHERS.
 - ALL U-BOLT ASSEMBLY TO BE HOT-DIP GALVANIZED PER ASTM A153/A153M OR A122, AS APPLICABLE.

STEEL:

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC CODE AND ASTM SPECIFICATIONS.
- HOLES SHALL NOT BE TORCH CUT THROUGH STRUCTURAL STEEL FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC SPECIFICATIONS.
- HOT-DIP GALVANIZE ALL ITEMS AFTER FABRICATION IN COMPLIANCE WITH ASTM A-123 UNLESS OTHERWISE SPECIFIED. ALL NEW STEEL IS TO BE PAINTED TO MATCH THE EXISTING STEEL.
- NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES, SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION UNLESS OTHERWISE SPECIFIED.
- ALL CONNECTIONS NOT DETAIL IN THESE DRAWINGS MUST BE INSTALLED TO THE LATEST AISC SPECIFICATIONS.
- ALL BOLTED CONNECTIONS MUST BE INSTALLED TO A SNUG-TIGHTENED CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS' SECTION 8.1 UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR MAY BE REQUIRED TO STACK WASHERS FOR BOLTS WHERE THREADS ARE EXCLUDED FROM SHEAR PLANE TO OBTAIN SNUG TIGHT INSTALLATION. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS. GALVANIZED ASTM 325 OR A490 BOLTS SHALL NOT BE REUSED.

MODIFICATION MATERIALS

SCOPE	SHAPE	GRADE	YIELD STRENGTH (FY)	ULTIMATE STRENGTH (FU)
ALL	PIPE	A53 GR. B	35 KSI	60 KSI
ALL	THREADED RODS	SAE 429 GR. 2	57 KSI	74 KSI

NO.	DATE	DESCRIPTION	BY
0	02/13/24	SECOND ISSUE	VB
0	05/08/23	FIRST ISSUE	VB

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151 BE CARTERWAY, SUITE 101
CORTEZ, CO 81321

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SITE NAME: WEST VERO
SITE NUMBER: FLPR1005
FA NUMBER: 1002701
MNS ENG. NUMBER: 43368 - AM01

SITE ADDRESS: 10000 WILSON LANE, WEST VERO BEACH, INDIAN RIVER COUNTY, FL 32986

DRAWN BY: VB
CHECKED BY: NON
APPROVED BY: RM
SCALE: N.T.S.

RAFAEL MOHAMED
FL LICENSE NO. 82846
No. 82846
STATE OF FLORIDA
PROFESSIONAL ENGINEER

RAFAEL I. MOHAMED, PE #696
SENIOR DIRECTOR OF ENGINEERING
FL PE LICENSE NO. 82846 FL COA NO. 32141

I HEREBY CERTIFY THAT THIS ENGINEERING DESIGN AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

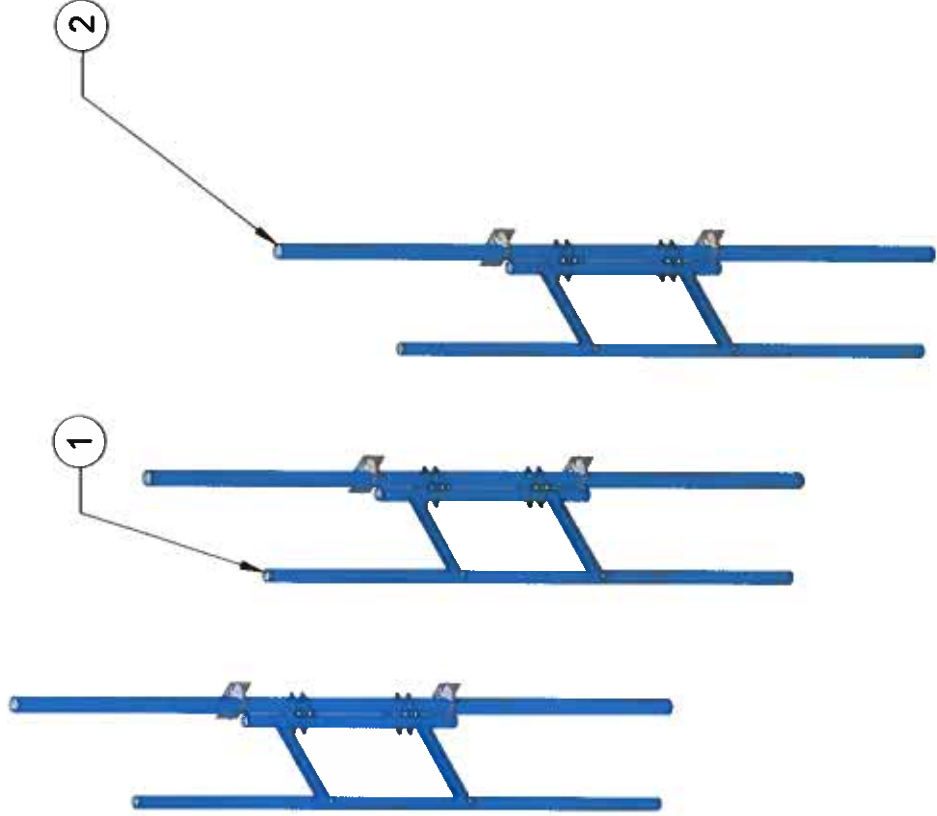
GENERAL NOTES

N-2

REV 0

MODIFICATION SCHEDULE

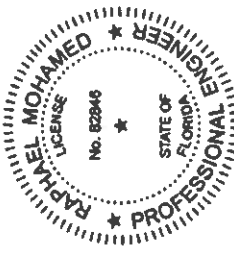
SCOPE NO.	MODIFICATION DESCRIPTION	BOTTOM ELEVATION	TOP ELEVATION	SHEET NO.
1	INSTALLATION OF NEW MOUNT PIPE	-	106'-0" ±	S-2
2	INSTALLATION OF NEW STANDOFF MOUNT	-	106'-0" ±	S-3



NOTES:

1. APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
2. ALL MODIFICATIONS TO BE INSTALLED CONTIGUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT MUST NOT BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION OF PROPOSED MODIFICATIONS.
3. ANTENNA AND COAX NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING AND COAX CONFIGURATION.
4. PRIOR TO FABRICATION AND INSTALLATION, CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND QUANTITIES GIVEN. INFORMATION PROVIDED IS FOR QUOTING PURPOSES ONLY AND SHALL NOT BE USED FOR FABRICATION.
5. EXISTING BRUS AND ANCILLARY EQUIPMENT MAY NEED TO BE TEMPORARILY RELOCATED AS NECESSARY TO COMPLETE THIS MODIFICATION. EQUIPMENT IS NOT TO BE TAKEN OFF AIR AT ANY TIME DURING INSTALLATION. PLEASE CONTACT EOR IF THIS CANNOT BE MET.
6. CONTACT EOR IF PROPOSED MOUNT REINFORCEMENT DIMENSIONS CANNOT BE MET.

0	02/13/24	SECOND	ISSUE	VB
0	05/08/23	FIRST	ISSUE	VB
NO	DATE	DESCRIPTION	BY	REVISIONS



RAPHAEL I. MOHAMED, PE, PE#
 SENIOR DIRECTOR OF ENGINEERING
 FLPE LICENSE NO. 82846, FL COA NO. 32141
 I HEREBY CERTIFY THAT THIS ENGINEERING
 DOCUMENT WAS PREPARED BY ME OR UNDER MY
 DIRECT PERSONAL SUPERVISION AND THAT I AM A
 DULY LICENSED PROFESSIONAL ENGINEER UNDER
 THE LAWS OF THE STATE OF FLORIDA.

Mastec
Network Solutions
1511 BE CARY PARK, SUITE 101
 CARY, NC 27518

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SITE NAME: WEST VERO
SITE NUMBER: FLPPU005
PLAN NUMBER: 10023701
ANS ENG. NUMBER: 40388--14MD1
SITE ADDRESS:
 5850 COLLEGE LANE, VERO BEACH
 INDIAN RIVER COUNTY, FL 32968

DRAWN BY: VB
CHECKED BY: HDN
APPROVED BY: RM
SCALE: N.T.S.

MODIFICATION SCHEDULE	
S-1	REV 0

NEW MOUNT PIPE MATERIAL LIST

PART NO.	QTY.	LENGTH	DESCRIPTION
MT-546-150	9	12'-6"	COMMSCOPE 2-7/8 INCH DIA. PLAIN END PIPE
X-UBT300	36	-	SITE PRO 1 U-BOLT ASSEMBLY

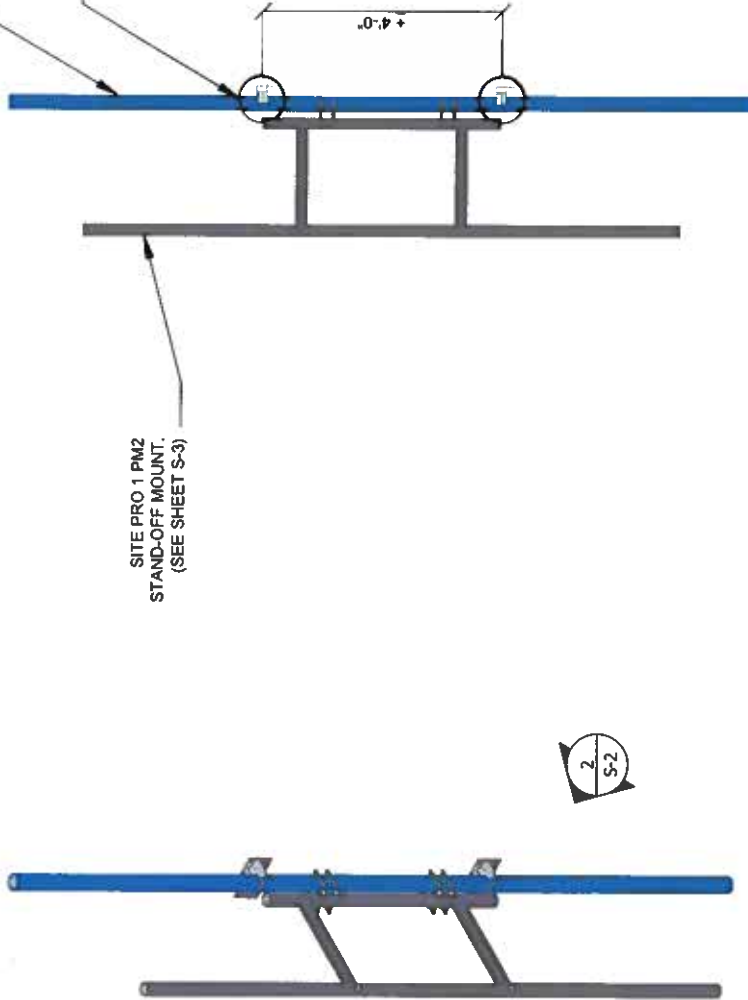
NOTES

- CONTRACTOR TO FIELD VERIFY THE REQUIRED LENGTH OF THE NEW STIFF-ARM PIPES AND MAY CUT ENDS AS REQUIRED TO AVOID UNNECESSARY OVERHANG AND OVERLAP.
- TWO COATS OF COLD GALVANIZING COATING MUST BE APPLIED TO ALL CUT ENDS IN ACCORDANCE TO ASTM A790 PRIOR TO INSTALLATION.
- ONLY (1) STANDOFF MOUNT IS BEING SHOWN FOR CLARITY. INSTALLATION DETAILS ARE TO BE FOLLOWED FOR EACH ANTENNA MOUNT PIPE PER SECTOR.

REMOVE EXISTING MOUNT PIPE AND
INSTALL PROPOSED COMMSCOPE MT-546-150
MOUNT PIPE. (TYP.)

(2) SITE PRO 1 X-UBT300
U-BOLT ASSEMBLY. (TYP.)

SITE PRO 1 PM2
STAND-OFF MOUNT.
(SEE SHEET S-3)



1
S-2

MOUNT PIPE INSTALLATION
ISOMETRIC VIEW
NTS

2
S-2

MOUNT PIPE INSTALLATION
SIDE VIEW
NTS

NO.	DATE
0	02/13/24
0	05/06/23
NO.	DATE
BY	DESCRIPTION
VB	REVISIONS
VB	SECOND ISSUE
VB	FIRST ISSUE

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SITE NAME: WEST VERO
 SITE NUMBER: FLPR1005
 FA NUMBER: 10032101
 MNS ENG. NUMBER: 43366 - 44401

SITE ADDRESS:
 5650 COLLEGE LANE, VERO BEACH
 INDIAN RIVER COUNTY, FL 32986

DRAWN BY: VB
 CHECKED BY: NDN
 APPROVED BY: RM

SCALE: N.T.S.

MOUNT PIPE
INSTALLATION DETAILS

S-2

REV: 0



RAPHAEEL MOHAMED PE, PE#9
 SENIOR DIRECTOR OF ENGINEERING
 FL PE LICENSE NO. 82846, FL COA NO. 32141

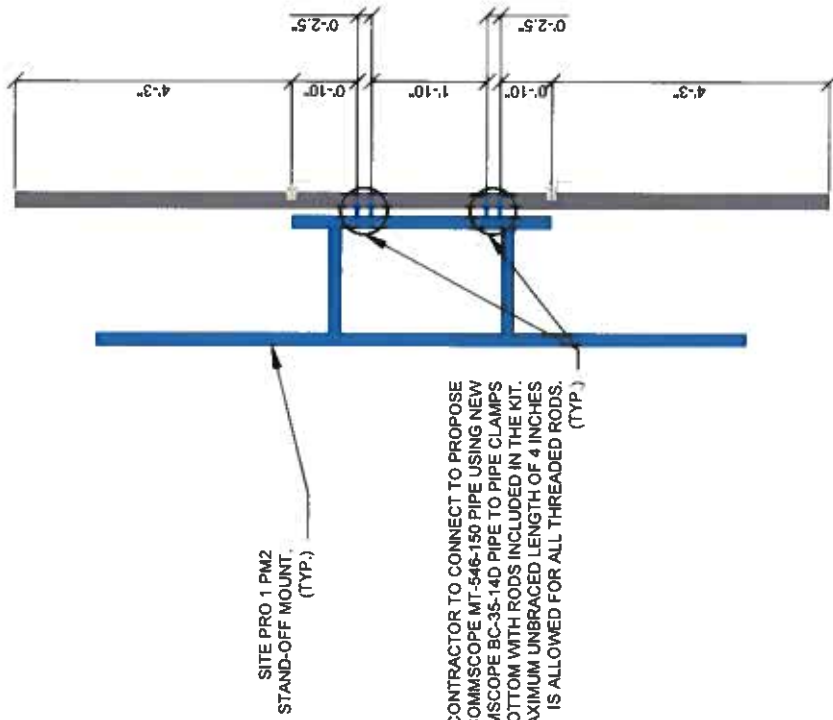
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

NEW STANDOFF MOUNT MATERIAL LIST

PART NO.	QTY.	LENGTH	DESCRIPTION
PM2	9	-	SITE PRO 1 2 FT PANEL STANDOFF MOUNT
BC-35-14D	9	-	COMMSCOPE 5/8 INCH DIA. THREADED ROD PIPE TO PIPE CLAMP

NOTES:

- CONTRACTOR TO FIELD VERIFY THE REQUIRED LENGTH OF THE NEW STIFF-ARM PIPES AND MAY CUT ENDS AS REQUIRED TO AVOID UNNECESSARY OVERHANG AND OVERLAP.
- TWO COATS OF COLD GALVANIZING COATING MUST BE APPLIED TO ALL CUT ENDS IN ACCORDANCE TO ASTM A780 PRIOR TO INSTALLATION.
- ONLY (1) STANDOFF MOUNT IS BEING SHOWN FOR CLARITY. INSTALLATION DETAILS ARE TO BE FOLLOWED FOR EACH ANTENNA MOUNT PIPE PER SECTOR.



CONTRACTOR TO CONNECT TO PROPOSE COMMSCOPE MT-546-150 PIPE USING NEW COMMSCOPE BC-35-14D PIPE TO PIPE CLAMPS TOP AND BOTTOM WITH RODS INCLUDED IN THE KIT. A MAXIMUM UNBRACED LENGTH OF 4 INCHES IS ALLOWED FOR ALL THREADED RODS. (TYP.)



1 S-3
STANDOFF MOUNT INSTALLATION
ISOMETRIC VIEW
NTS

2 S-3
STANDOFF MOUNT INSTALLATION
SIDE VIEW
NTS

Mastec
Network Solutions
151 SE CANYON WAY, SUITE 101
CORAL GABLES, FL 33134

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NO.	DATE	DESCRIPTION	BY
0	02/13/24	SECOND ISSUE	VB
0	05/06/23	FIRST ISSUE	VB



SITE NAME WEST VERO
SITE NUMBER FLPRJ1005
FA NUMBER 10032101
MNS ENG. NUMBER 43386 -MM01

SITE ADDRESS
151 COLLEGE LANE, VERO BEACH
INDIAN RIVER COUNTY, FL 32909

DRAWN BY VB
CHECKED BY MDM
APPROVED BY RM

SCALE N.T.S.

RASHMEL MOHAMED, PE, P.E.
SENIOR DIRECTOR OF ENGINEERING
FL PE LICENSE NO. 82846 FL COA NO. 32141

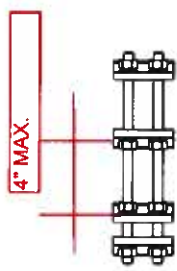
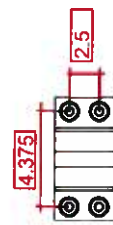
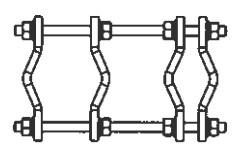
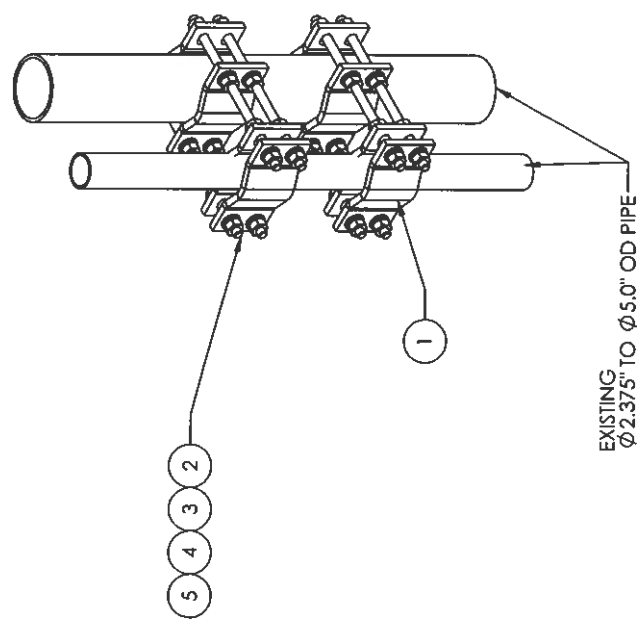
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STANDOFF MOUNT
INSTALLATION DETAILS

S-3
REV 0

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	DC-PT00	Dual Half Clamp, 2-3/8" to 5"	8	4.42 LBS
2	MT-382-14	5/8" X 14" GALV THREADED ROD	8	1.21 LBS
3	GWFO5A	5/8" GALV FLAT WASHER (A325)	32	0.03 LBS
4	GWL-05	5/8" GALV LOCK WASHER	32	0.03 LBS
5	GN05A	5/8" GALV HEX NUT (A194.2H)	32	0.12 LBS

REV.	ZONE	DESCRIPTION	BY	DATE
A		INITIAL RELEASE	MSM	06/11



NOTES:
 1. ALL METRIC DIMENSIONS ARE IN BRACKETS.

These drawings and specifications are the property of Commscope Inc. and may be used only for the specific purpose indicated in writing by Commscope Inc.

SEE DIMENSIONS FOR A SHORTER DESIGN.
 100% GAUGE OF THE GREEN SIDE OF THE
 ANGLE.
 1/2" TOLERANCE.
 1/2" TOLERANCE.
 1/2" TOLERANCE.

DO NOT SCALE THIS PRINT

REV	DATE	BY	DESCRIPTION
A	06/11	MSM	INITIAL RELEASE

BC-35-14D

COMMSCOPE
 Hickory, NC 28602 U.S.A.



MT-546-150



Plain End Pipe, 2-7/8 in OD x 150 in x .203" A500C 46Ksi

Product Classification

Product Type Plain end pipe

General Specifications

Pipe, quantity 1

Dimensions

Height 73.66 mm | 2.9 in

Width 73.66 mm | 2.9 in

Length 3810 mm | 150 in

Pipe Length 3810 mm | 150 in

Pipe Outer Diameter 73.66 mm | 2.9 in

Material Thickness 5.156 mm | 0.203 in

Material Specifications

Material Type A500 | Hot dip galvanized steel

Material Grade C

Material Strength 46 KSI

Packaging and Weights

Included Pipe

Packaging quantity 1

Weight, net 32.7 kg | 72.091 lb

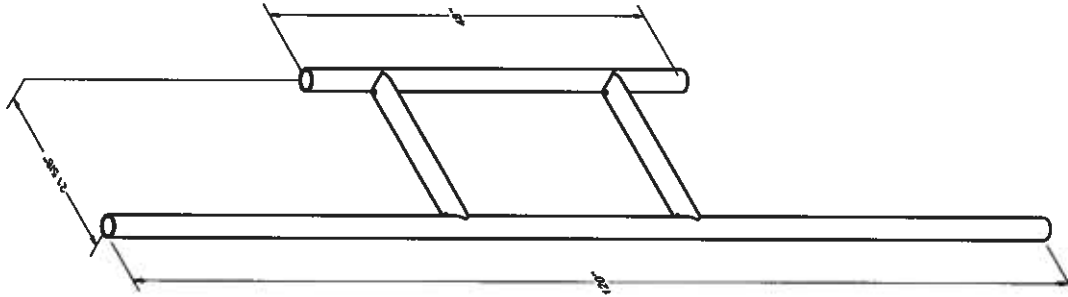
Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-PM2	PM2 STANDOFF MOUNT WELDMENT		87.21	87.21



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.0307)
 DRILLED AND GAS CUT HOLES (± 0.0307) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.0107) - NO CONING OF HOLES
 BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.0307)
 ALL OTHER ASSEMBLY (± 0.0307)

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 PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM THE COMPANY.

REV	A	120" LONG PIPE WAS 70" LONG	CPD	KC8	4-28-21
		DESCRIPTION OF REVISIONS	BY	DATE	
		REVISION HISTORY			

DESCRIPTION	2' PANEL STAND-OFF MOUNT	
CPD NO	DRAWN BY	ENG. APPROVAL
81	CEK	8/9/2019
SUB	ORANING USAGE	CHECKED BY
02	CUSTOMER	BMC
		8/21/2019

SIDE PRO 1
 A. VABBACCI & COMPANY
 Engineering Support Team
 1-888-753-7446
 Locations: New York, NY; Atlanta, GA; Plymouth, IN; Salem, OR; Dallas, TX; Tampa, FL

PART NO.	PM2
DWG. NO.	PM2