



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

March 20, 2019

Kristen White
Site Acquisition Specialist
Empire Telecom USA, LLC
16 Esquire Road
Billerica, MA 01862

RE: **EM-AT&T-148-190204** – AT&T notice of intent to modify an existing telecommunications facility located at 945 East Center Street, Wallingford, Connecticut.

Dear Ms. White:

The Connecticut Siting Council (Council) is in receipt of your correspondence of March 18, 2019 submitted in response to the Council's March 1, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr



Robidoux, Evan

From: Kristen White <kwhite@empiretelecomm.com>
Sent: Monday, March 18, 2019 5:18 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council; Michelle Scharath; Lauren Groppi
Subject: Response to: Council Incomplete Letter for EM-AT&T-148-190204-EastCenterSt-Wallingford CT2154
Attachments: 10035139_AE201_190306_CT2154_Rev 0 .pdf; 3.18.19 - Updated Construction Drawings - EM-AT&T-148-190204 - EastCenterSt-Wallingford.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon Evan,

Attached please find the updated Construction Drawings dated March 6, 2019; updated to reflect the 2018 Connecticut State Building Code, to supplement AT&T's Notice of Exempt Modification at 945 East Center Street; Wallingford, CT 06492. A physical copy of the attached will be mailed to the Council as well.

Best,
Kristen White

Kristen White
Site Acquisition Supervisor

EMPIRE
telecom

16 Esquire Road | Billerica, MA 01862
Mobile: 978-284-3801
Email: kwhite@empiretelecomm.com
Website: www.EmpireTelecomm.com

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From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Wednesday, March 06, 2019 8:49 AM
To: Kristen White <kwhite@empiretelecomm.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-AT&T-148-190204-EastCenterSt-Wallingford

Please see the attached correspondence.

Evan Robidoux
Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

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March 18, 2019

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

cc: via email to Evan.Robidoux@ct.gov & Siting.Council@ct.gov

Regarding: EM-AT&T-148-190204 - Notice of Exempt Modification –
Antenna Modification
Property Address: 945 East Center Street; Wallingford, CT 06492 (the “Property”)
Applicant: AT&T Mobility (“AT&T”, Site # CT2154)

Dear Ms. Bachman:

I am in receipt of the Council’s letter dated March 1, 2019, noting a deficiency in the documents submitted to support the above-referenced application for Exempt Modification for AT&T at 945 East Center Street in Wallingford, Connecticut.

Attached herewith are updated Construction Drawings to reflect reference to the 2019 Connecticut State Building Code. The new Construction Drawings are by maser Consulting and are stamped and dated March 6, 2019.

Please accept this as an addendum to the notification dated February 4, 2019, pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72 (b)(2).

Should you have any further requests or concerns, please don’t hesitate to let me know.

Sincerely,

Kristen White

Kristen White
Site Acquisition Supervisor
Empire Telecom USA, LLC
kwhite@empiretelecomm.com

Enclosures: Revised Construction Drawings dated March 6, 2019

PROJECT NOTES

1. SITE INFORMATION OBTAINED FROM THE FOLLOWING:
 - A. PLAN ENTITLED "WALLINGFORD" PREPARED BY CENTEK ENGINEERING OF BRANFORD, CT LAST REVISED 09/19/2016.
 - B. LIMITED FIELD OBSERVATION BY MASER CONSULTING ON 05/29/2018.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. 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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. 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 MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. THE PROPOSED FACILITY WILL CAUSE AN INSIGNIFICANT OR "DE-MINIMUS" INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
11. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
12. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
13. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
14. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
15. THE TOWER, MOUNTS AND ANTENNAS SHALL BE DESIGNED TO MEET EIA/TIA-222-G AS PER IBC REQUIREMENTS.
16. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
17. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
18. CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS.
19. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.



SITE NAME: WALLINGFORD
FA NUMBER: 10035139
SITE NUMBER: CT2154
CROWN BU#: 876310
LTE: 3C/4C/5C/6C
945 EAST CENTER STREET
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

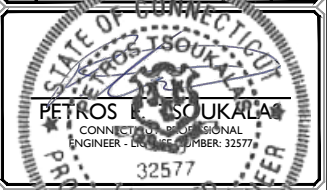


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SCALE: AS SHOWN	JOB NUMBER: 18963008A
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
2	09/25/18	REVISED PER COMMENTS	AJC	RA
1	09/14/18	ISSUED FOR REVIEW	AJC	RA

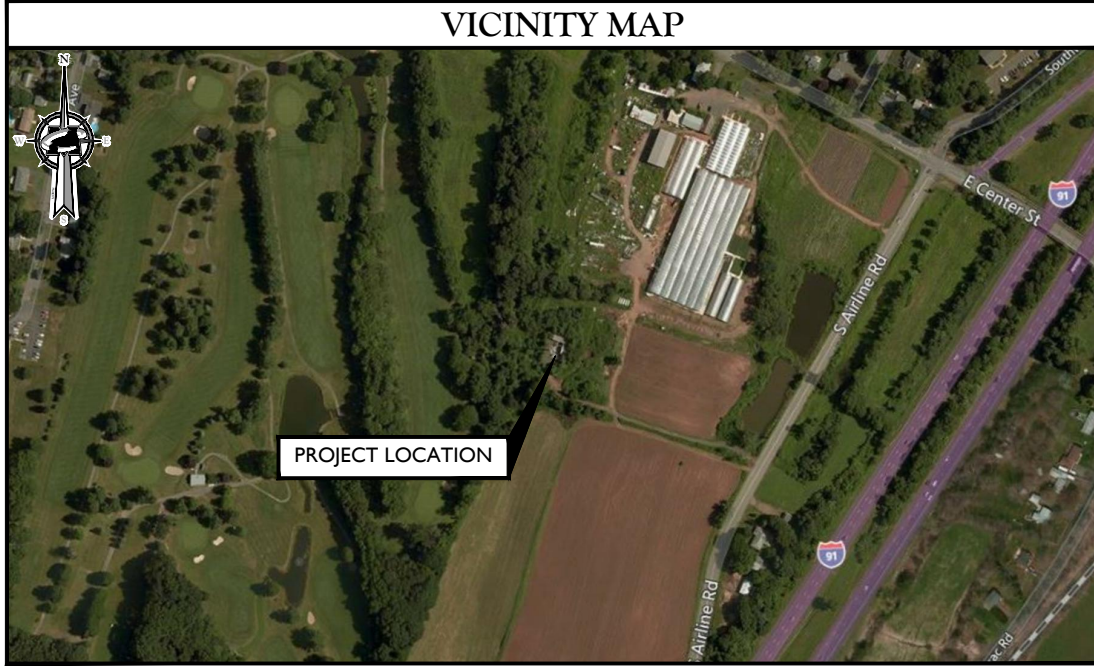


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE LICENSED PROFESSIONAL ENGINEER, TO REPRODUCE OR TRANSMIT THIS DOCUMENT.

SITE NAME:
WALLINGFORD
FA#: 10035139
SITE #: CT3265
945 EAST CENTER STREET
WALLINGFORD, CT 06492
NEW HAVEN COUNTY



SHEET TITLE: TITLE SHEET
SHEET NUMBER: T-I



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.

1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC	8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION
2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70	9. TELCORDIA GR-1275
3. 2017 NFPA 101	10. ANSI T1.311
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10	11. PROPOSED USE: UNMANNED TELECOM FACILITY
5. AMERICAN CONCRETE INSTITUTE	12. HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
6. TIA-222-G	13. CONSTRUCTION TYPE: IIB
7. TIA 607 FOR GROUNDING	14. USE GROUP: U

PROJECT INFORMATION

SITE INFORMATION
 LATITUDE: 41.4437° N
 LONGITUDE: 72.7963° W
 JURISDICTION: NEW HAVEN COUNTY

APPLICANT/LESSEE
 COMPANY: NEW CINGULAR WIRELESS PCS, LLC
 ADDRESS: 550 COCHITUATE ROAD
 CITY, STATE, ZIP: FRAMINGHAM, MA 01701

STRUCTURE OWNER
 COMPANY: T.B.D.
 ADDRESS: T.B.D.
 CITY, STATE, ZIP: T.B.D.

CLIENT REPRESENTATIVE
 COMPANY: EMPIRE TELECOM
 ADDRESS: 16 ESQUIRE ROAD
 CITY, STATE, ZIP: BILLERICA, MA 01862
 CONTACT: DAVID COOPER
 E-MAIL: DCOOPER@EMPIRETELECOM.COM

SITE ACQUISITION
 COMPANY: EMPIRE TELECOM
 ADDRESS: 16 ESQUIRE ROAD
 CITY, STATE, ZIP: BILLERICA, MA 01862
 CONTACT: DAVID COOPER
 E-MAIL: DCOOPER@EMPIRETELECOM.COM

ENGINEER
 COMPANY: MASER CONSULTING CT
 ADDRESS: 2000 MIDLANTIC DRIVE, SUITE 100
 CITY, STATE, ZIP: RED BANK, NJ 07701-5699
 CONTACT: ROBERT ANDREWS
 PHONE: (856) 797-0412
 E-MAIL: RANDREWS@MASERCONSULTING.COM

PROJECT DESCRIPTION/ SCOPE OF WORK

- INSTALL (5) NEW RRU'S AT GRADE
- INSTALL (6) NEW RRU'S, (2) PER SECTOR
- INSTALL (3) NEW PANEL ANTENNAS, (1) PER SECTOR
- REMOVE (3) EXISTING PANEL ANTENNAS, (1) PER SECTOR
- REMOVE (12) DIPLEXERS, (4) PER SECTOR
- INSTALL (3) LOW BAND COMBINERS, (1) PER SECTOR
- INSTALL (3) LOW BAND COMBINERS AT GRADE
- INSTALL (1) NEW DC-6 SURGE SUPPRESSION DOME
- INSTALL (1) NEW 18-PAIR FIBER CABLE
- INSTALL (2) NEW 6/C DC CABLES
- SWAP DUS WITH 5216 AND ADD 2ND XMU
- ADD 2ND 5216 + IDLe AND (1) RBS 6630

PROPOSED PROJECT SCOPE BASED ON RFDS ID# 2310393, VERSION 2.00, LAST UPDATED 06/14/2018.

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	COMPOUND PLAN
C-2	EQUIPMENT LAYOUT AND ELEVATION VIEW
C-3	ANTENNA LAYOUTS AND ANTENNA SCHEDULE
A-1	CONSTRUCTION DETAILS
A-2	CONSTRUCTION DETAILS
A-3	RF PLUMBING DIAGRAM
G-1	GROUNDING DETAILS AND NOTES
S-1	STRUCTURAL DETAILS

3/20/18 18963008A Connecticut 010035139 CT154 CD Rev A.dwg T-I

GENERAL NOTES:

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 50 HNS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - EMPIRE TELECOM
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T (NEW CINGULAR WIRELESS PCS, LLC)
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE RESPONSIBLE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS.
- ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN ALERT OF DANGEROUS EXPOSURE LEVELS.



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SCALE:	JOB NUMBER:
AS SHOWN	18963008A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
2	09/25/18	REVISED PER COMMENTS	AJC	RA
1	09/14/18	ISSUED FOR REVIEW	AJC	RA



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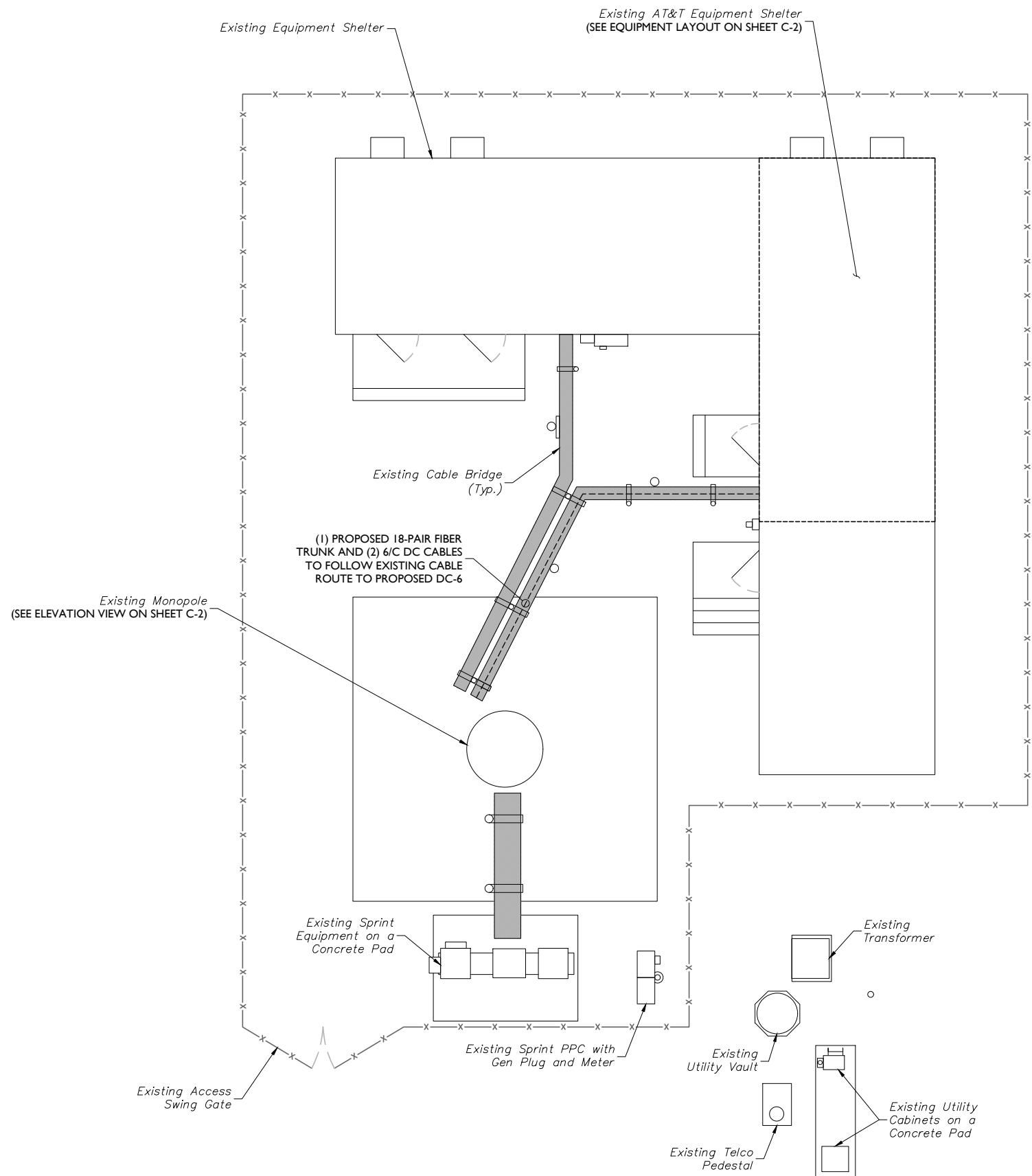
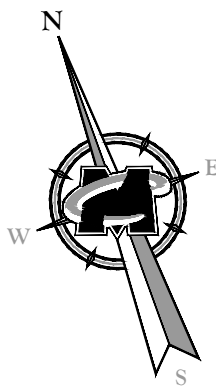
SITE NAME:
 WALLINGFORD
 FA#: 10035139
 SITE #: CT3265
 945 EAST CENTER STREET
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 Red Bank, NJ 07701-5699
 Phone: 732.383.1950
 Fax: 732.383.1984
 email: solutions@maserconsulting.com

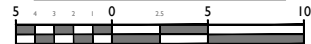
SHEET TITLE:
STRUCTURAL DETAILS

SHEET NUMBER:
S-1

3/20/19 10:00AM Connecticut 010035139_CTT154_CD_Rev_AdviseG141 By: ACCOA



COMPOUND PLAN



SCALE: 1" = 5' FOR 22"X34"
(SCALE: 1" = 10' FOR 11"X17')

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SCALE:	AS SHOWN	JOB NUMBER:	18963008A
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
2	09/25/18	REVISED PER COMMENTS	AJC	RA
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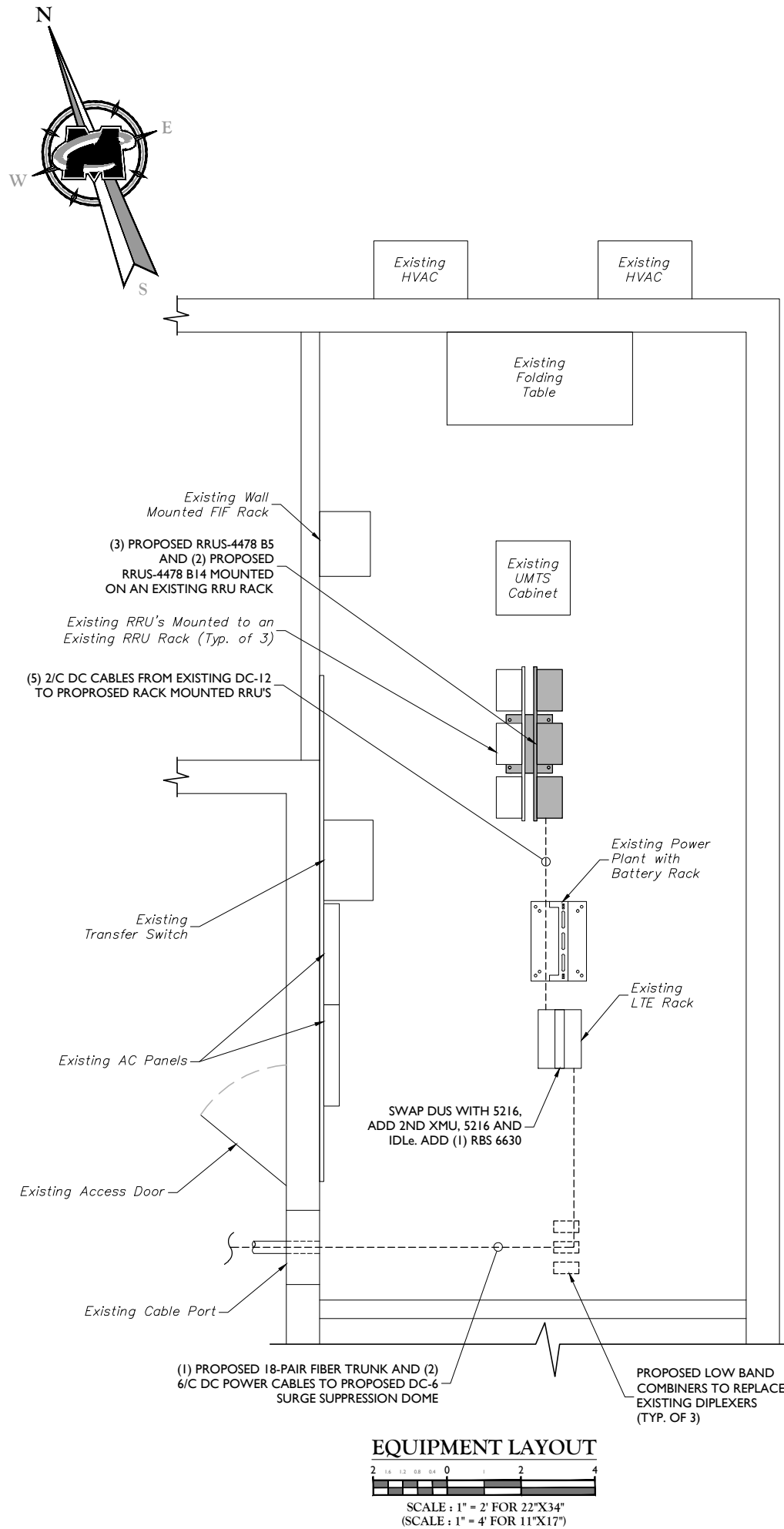
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FA#: 10035139
SITE #: CT3265
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SHEET TITLE:
COMPOUND PLAN

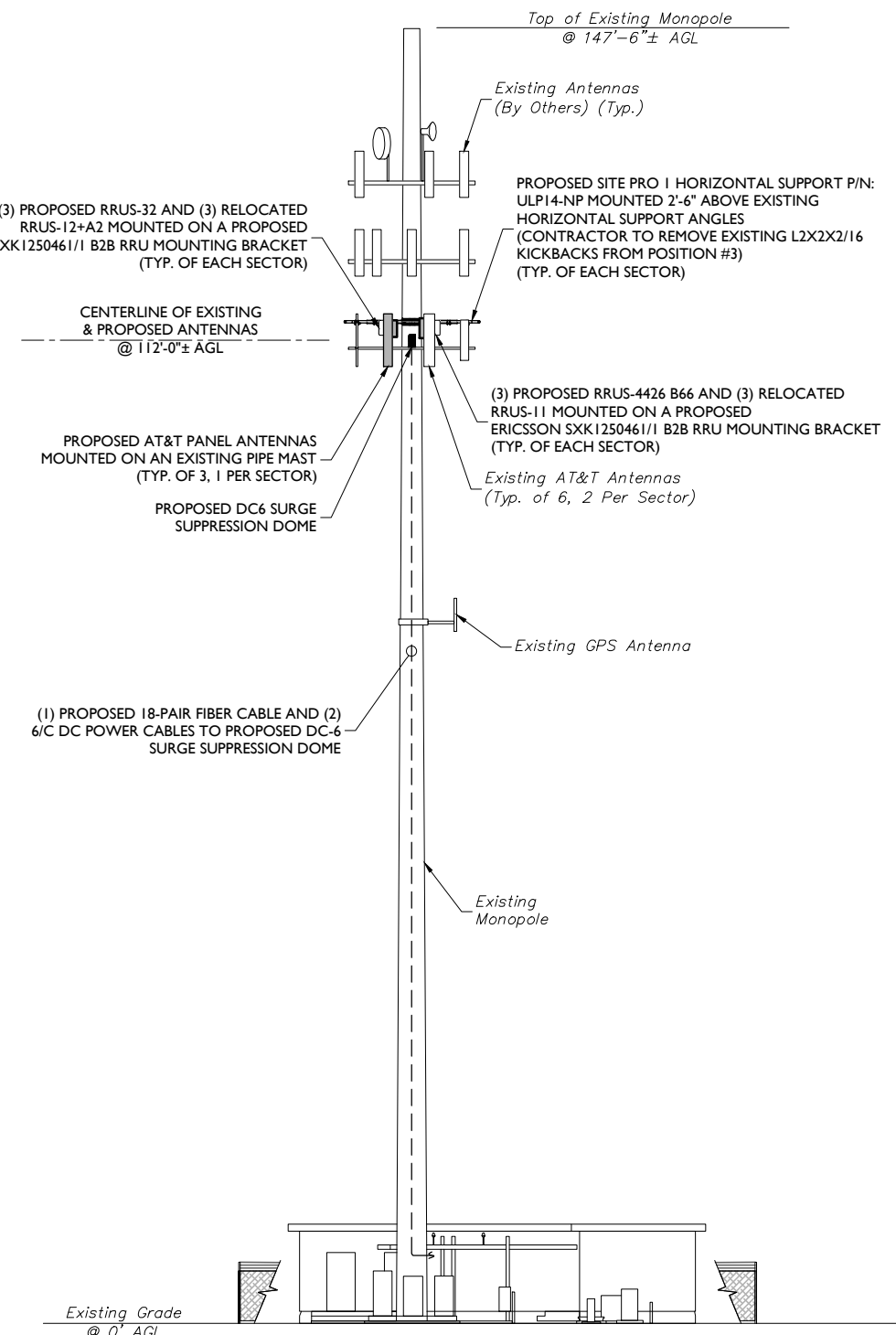
SHEET NUMBER:
C-1

3/20/19 10:00AM Connecticut 010035139 CT154_CD_Rev A.dwg (C-1) By: ACOA



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- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, CABLES, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.



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AS SHOWN	18963008A			
0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
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1	09/14/18	ISSUED FOR REVIEW	AJC	RA
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

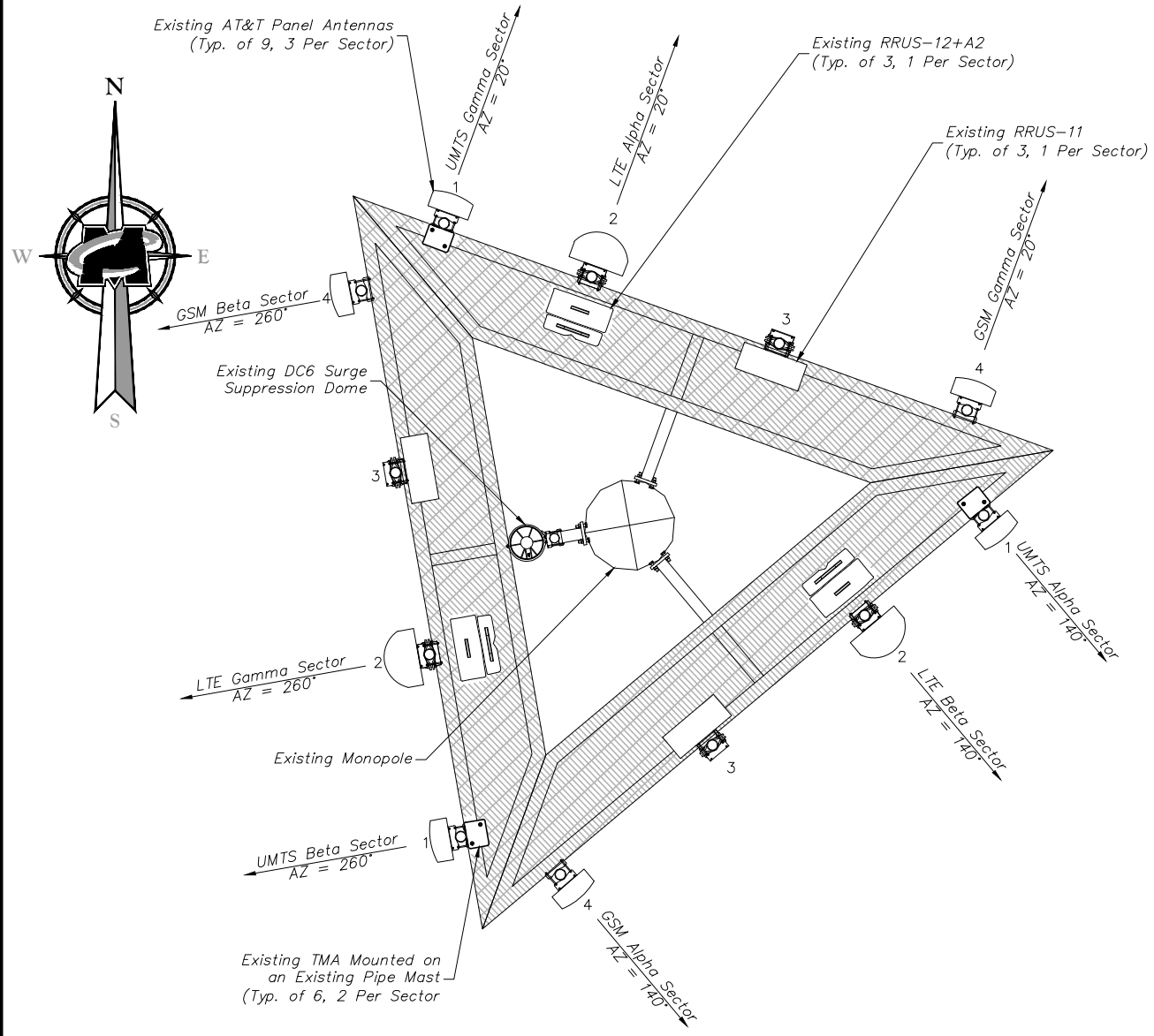


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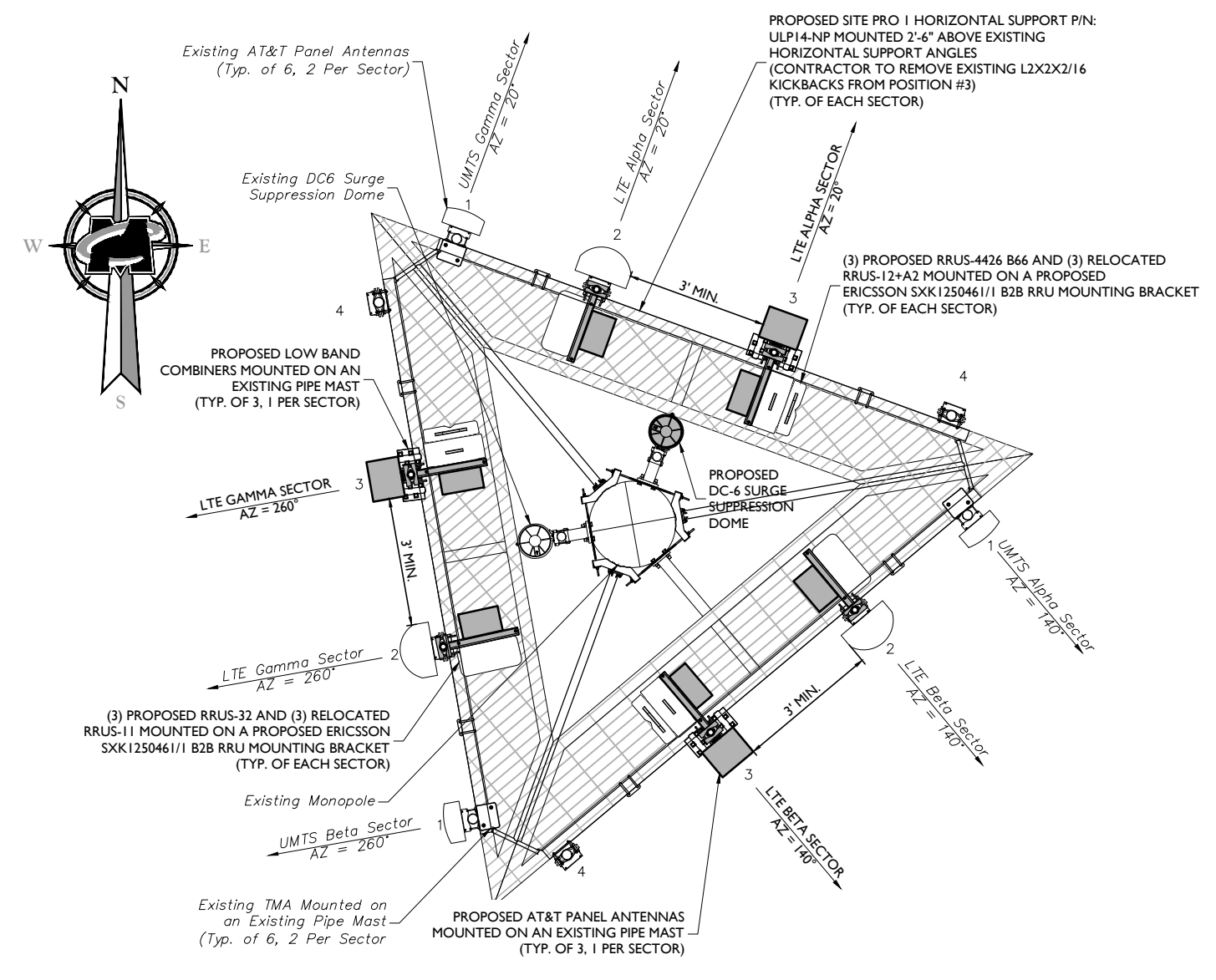
SITE NAME:
WALLINGFORD
FA#: 10035139
SITE #: CT3265
945 EAST CENTER STREET
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

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Fax: 732.383.1984
email: solutions@maserconsulting.com

SHEET TITLE:
EQUIPMENT LAYOUT AND ELEVATION VIEW
SHEET NUMBER:
C-2



EXISTING ANTENNA LAYOUT
NOT TO SCALE



PROPOSED ANTENNA LAYOUT
NOT TO SCALE

ANTENNA SCHEDULE															
SECTOR	EXISTING ANTENNA	PROPOSED ANTENNA	TECHNOLOGY	ANTENNA STATUS	HEIGHT (in)	WIDTH (in)	DEPTH (in)	WEIGHT (lbs)	ANTENNA AZIMUTH (DEG.)	ANT. CL. ELEV. (ft.)	REMOTE RADIO/TMA CONFIGURATION	TRANSMISSION CABLE			
												QUANTITY	TYPE	STATUS	
Sector 1	1	POWERWAVE 7770	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	140	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	20	112'	(1) RRUS-11 (1) RRUS-4426 B66	1/2	FIBER/DC	EXISTING
	3		QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	20	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE) (1) RRUS-32 (1) RRUS-12+A2	1/2	FIBER/DC	PROPOSED
	4	POWERWAVE 7770			REMOVED										
Sector 2	1	POWERWAVE 7770	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	260	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	140	112'	(1) RRUS-11 (1) RRUS-4426 B66			
	3		QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	140	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE)			
	4	POWERWAVE 7770			REMOVED										
Sector 3	1	POWERWAVE 7770	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	20	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	260	112'	(1) RRUS-11 (1) RRUS-4426 B66			
	3		QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	260	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE)			
	4	POWERWAVE 7770			REMOVED										

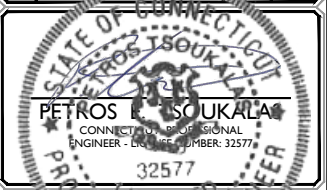
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SCALE:	AS SHOWN	JOB NUMBER:	18963008A
REV	DATE	ISSUED FOR REVIEW	AJC RA
2	09/25/18	REVISED PER COMMENTS	AJC RA
3	09/27/18	REVISED PER COMMENTS	AJC RA
0	3/06/19	STRUCT. MOD. REVISION	AJC RA
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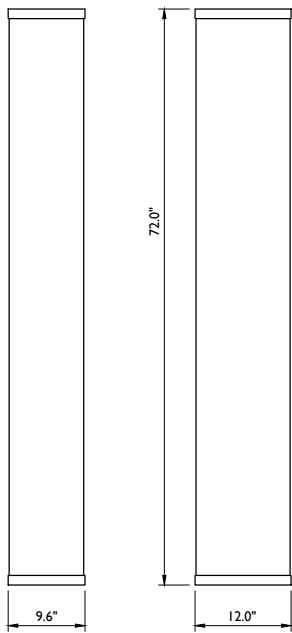
SITE NAME:
WALLINGFORD
FA#: 10035139
SITE #: CT3265
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SHEET TITLE:
ANTENNA LAYOUTS AND ANTENNA SCHEDULE

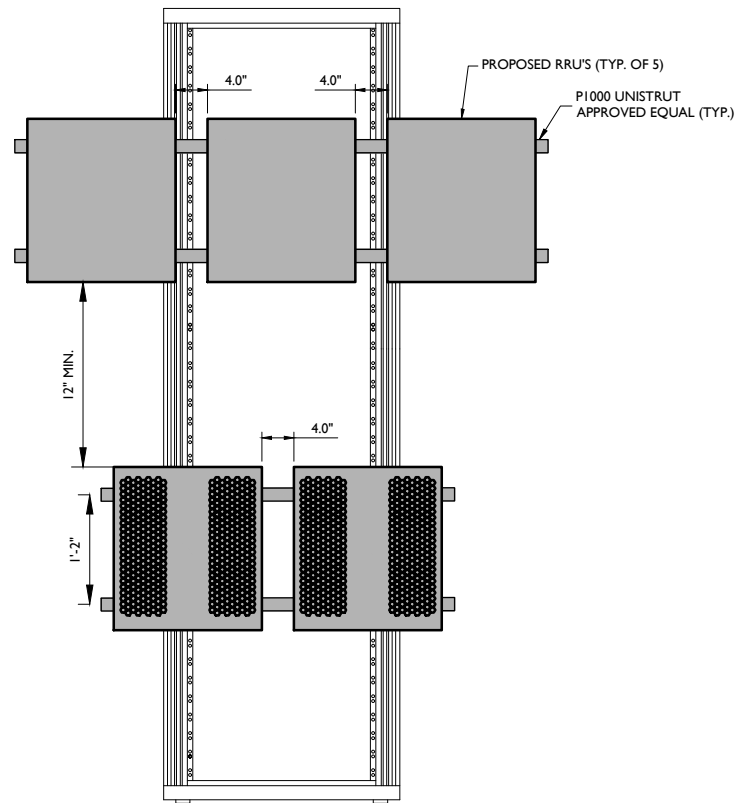
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C-3

3/20/19 10:00AM Connecticut 01003139_C3.ctb Rev A.ctb 3



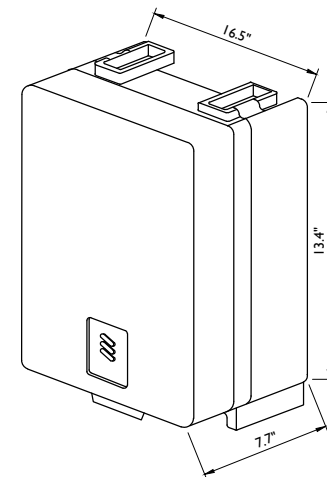
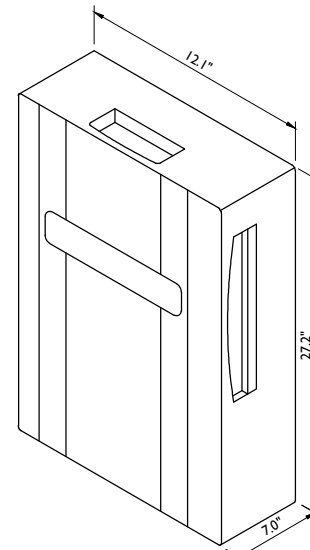
WEIGHT = 111.0 LBS

QUINTEL QS665 12-2
ANTENNA DETAIL
NOT TO SCALE



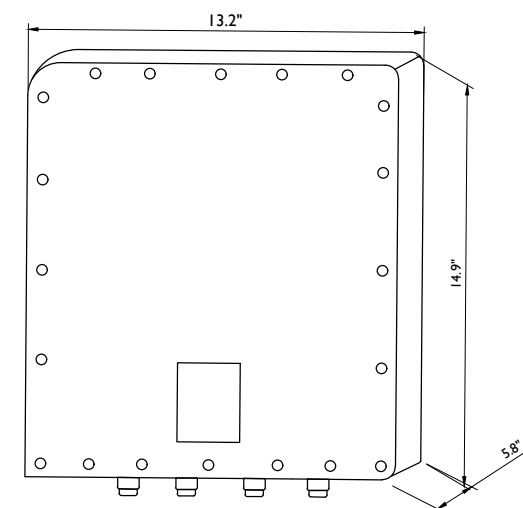
RRUS-32 DIMENSIONS (H X W X D): 27.2" X 12.1" X 7.0" (INCLUDES SUNSHIELD)
WEIGHT: 53 LBS

RRUS-32 DETAIL
NOT TO SCALE



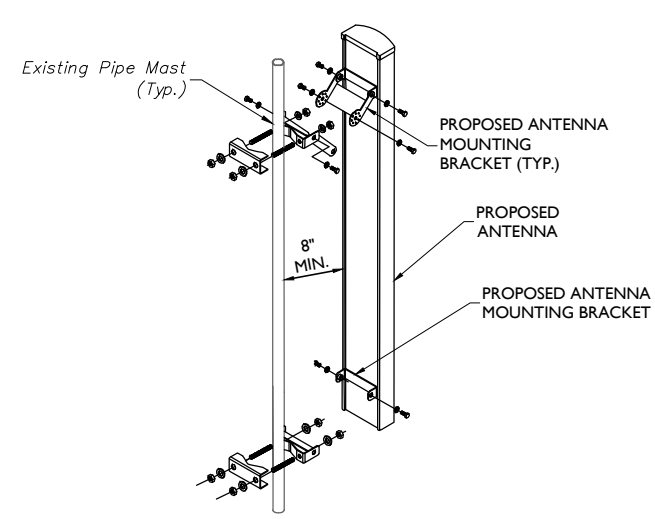
DIMENSIONS (H X W X D): 16.5"H X 13.4"W X 7.7"D (INCLUDES SUNSHIELD)
WEIGHT: 59.9 LBS

RRU-4478-B5 DETAIL
NOT TO SCALE

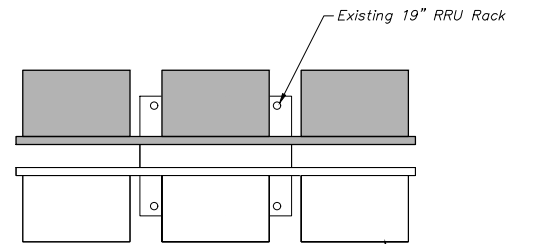


RRUS 4426 B66 DIMENSIONS (H X W X D): 14.9" X 13.2" X 5.9"
(INCLUDES SUNSHIELD) WEIGHT: 48 LBS

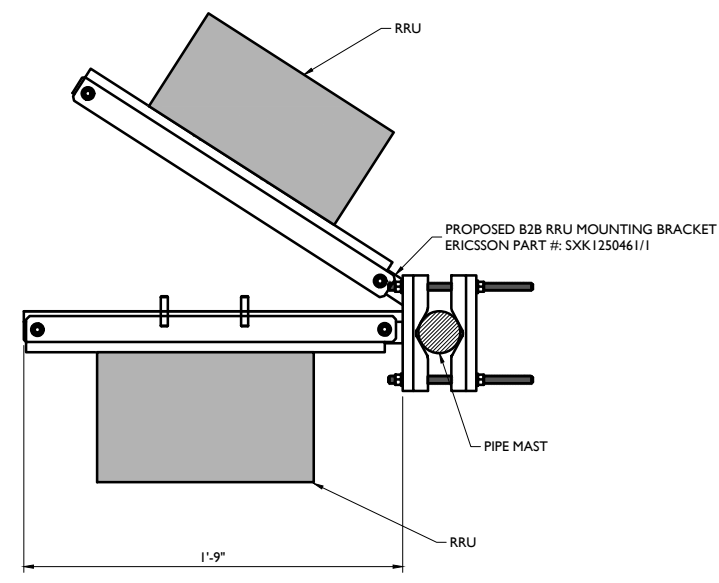
RRUS 4426 B66 DETAIL
NOT TO SCALE



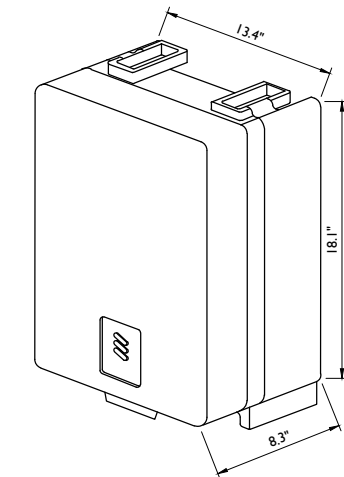
ANTENNA MOUNTING DETAIL
NOT TO SCALE



RRU RACK MOUNT DETAIL
NOT TO SCALE



RRU MOUNTING DETAIL
NOT TO SCALE



DIMENSIONS (H X W X D): 18.1"H X 13.4"W X 8.3"D (INCLUDES SUNSHIELD)
WEIGHT: 59.4 LBS

RRUS-4478 B14 DETAIL
NOT TO SCALE

8" MINIMUM SEPERATION REQUIRED FROM BACK OF PANEL ANTENNA TO ANY EXISTING/PROPOSED EQUIPMENT

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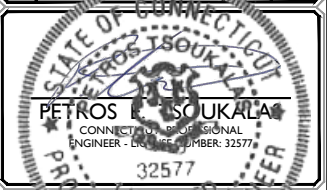
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AS SHOWN	18963008A

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0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
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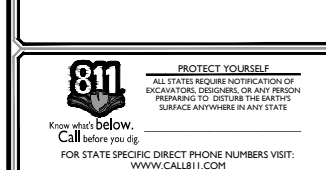
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SHEET TITLE:
DETAILS

SHEET NUMBER:
A-1

3/20/2019 10:00AM Connecticut 010035139 - CT154 - CD - Rev A-1.mxd By: ACDA

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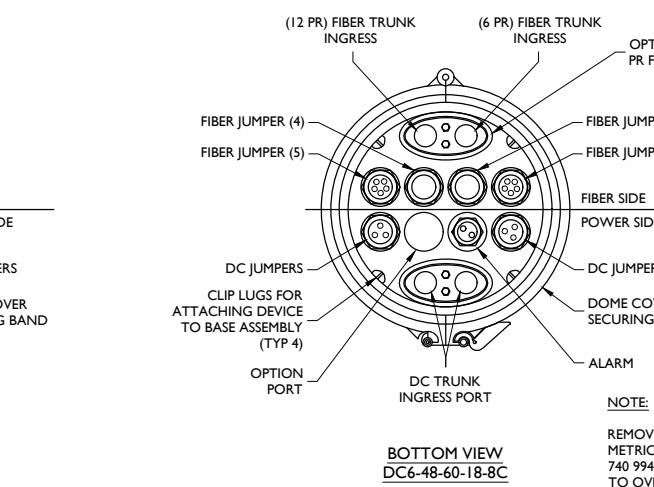
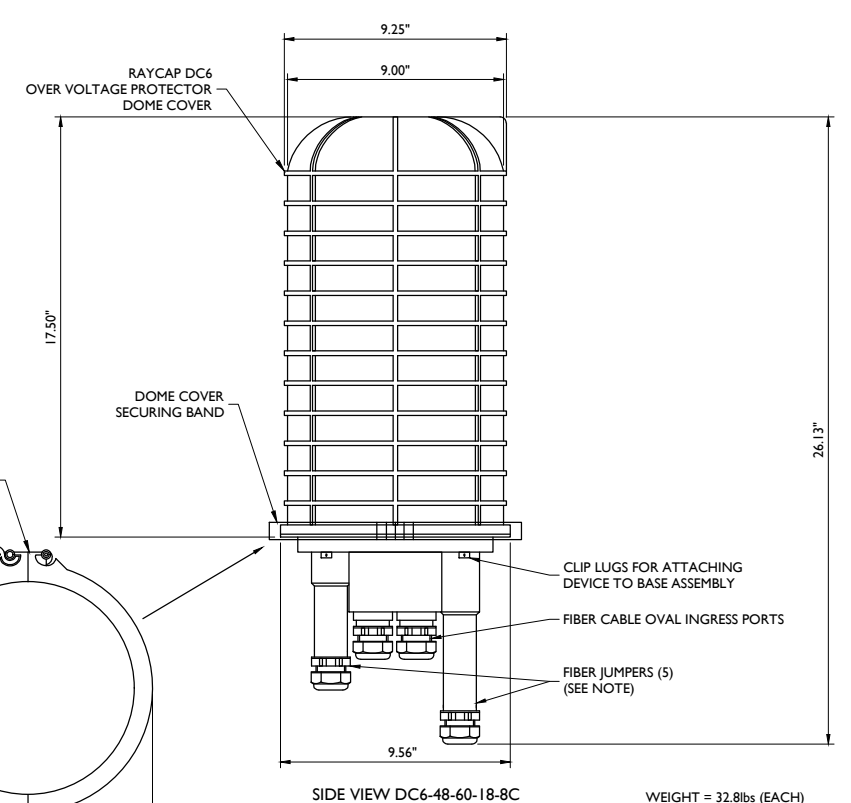
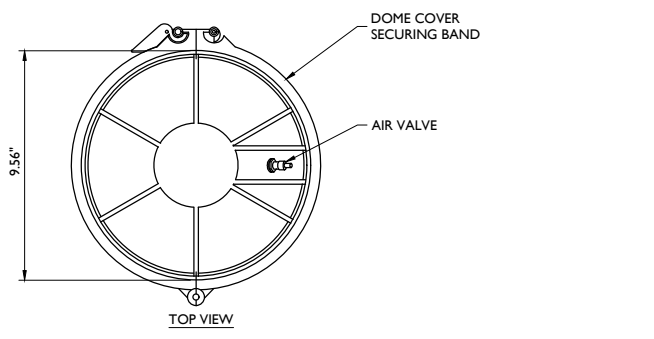


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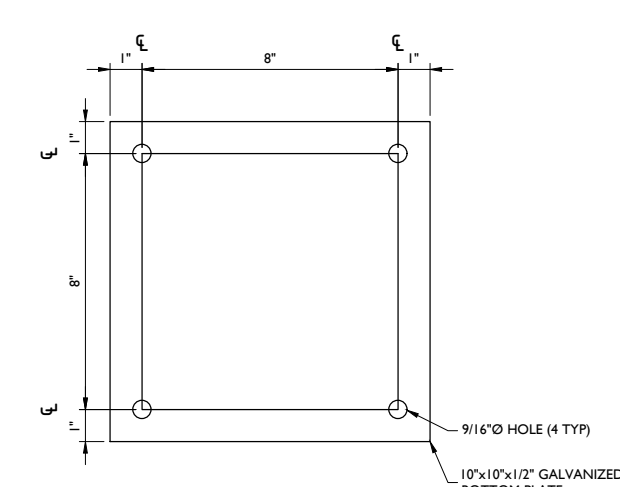
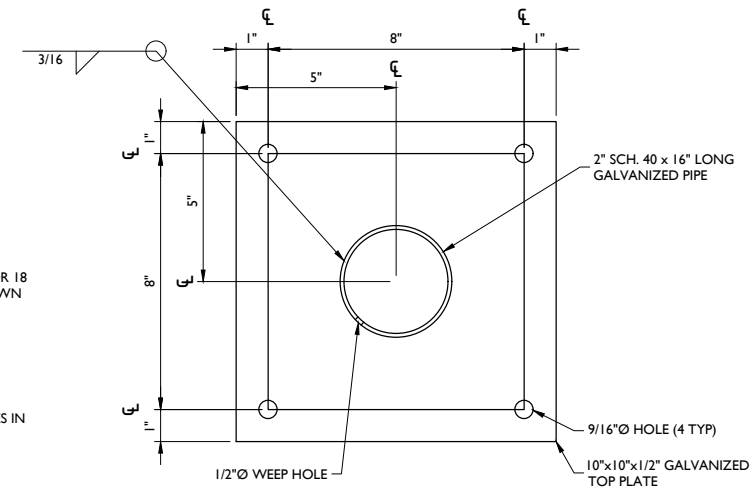
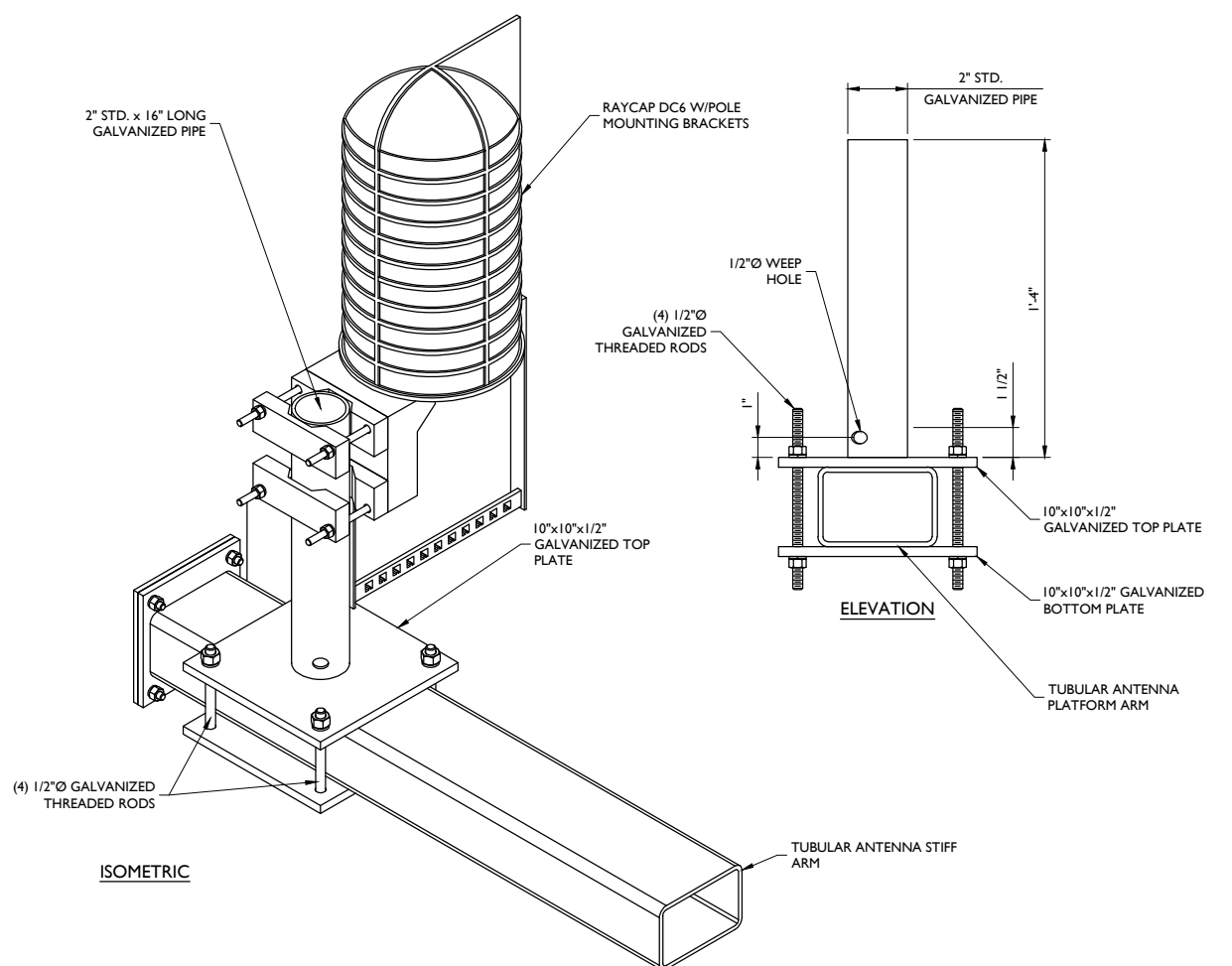
SITE NAME:
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FA#: 10035139
SITE #: CT3265
945 EAST CENTER STREET
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SHEET TITLE:
DETAILS
 SHEET NUMBER:
A-2

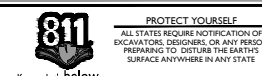


DC6 SURGE SUPPRESSION DOME DETAIL
 NOT TO SCALE



DC6 SURGE SUPPRESSION DOME MOUNTING DETAIL (TUBE)
 NOT TO SCALE

3/20/2019 10:00AM Connecticut 010035139.ctt154.ctd Rev A-2 (A-2)



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SCALE: AS SHOWN JOB NUMBER: 18963008A

REV	DATE	DESCRIPTION	BY	CHECKED BY
0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
3	09/27/18	REVISED PER COMMENTS	AJC	RA
2	09/25/18	REVISED PER COMMENTS	AJC	RA
1	09/14/18	ISSUED FOR REVIEW	AJC	RA



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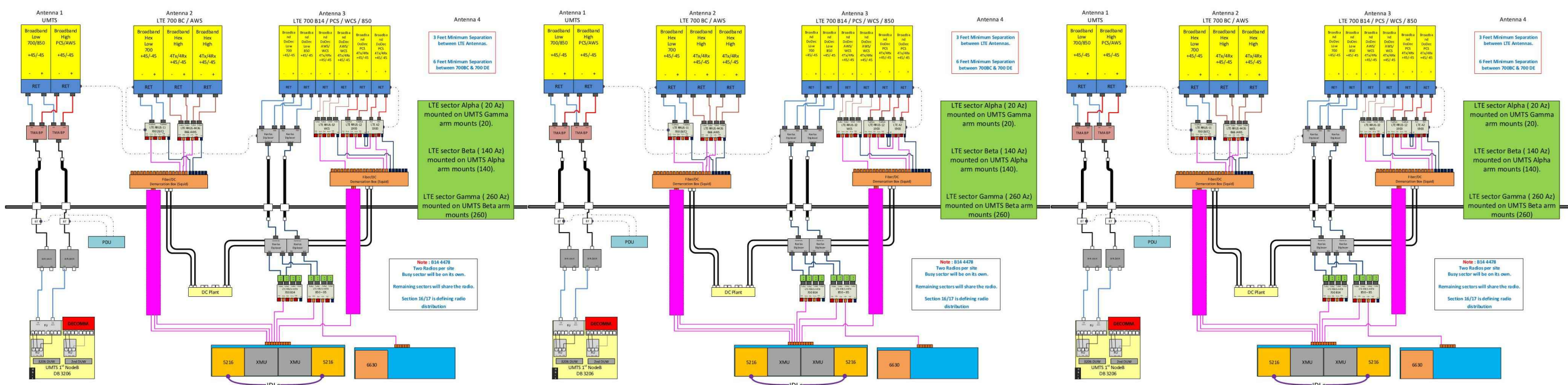
WALLINGFORD
FA#: 10035139
SITE #: CT3265
945 EAST CENTER STREET
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SHEET TITLE:
RF PLUMBING DIAGRAM

SHEET NUMBER:
A-3

Diagram - Sector A, Diagram File Name - CT2154_ABC_Multicarrier_5G.vsd, Location Name - WALLINGFORD, Market - CONNECTICUT, Market Cluster - NEW ENGLAND
Diagram - Sector B, Diagram File Name - CT2154_ABC_Multicarrier_5G.vsd, Location Name - WALLINGFORD, Market - CONNECTICUT, Market Cluster - NEW ENGLAND
Diagram - Sector C, Diagram File Name - CT2154_ABC_Multicarrier_5G.vsd, Location Name - WALLINGFORD, Market - CONNECTICUT, Market Cluster - NEW ENGLAND



ALPHA SECTOR

BETA SECTOR

GAMMA SECTOR

BASED ON: RF ENGINEERING DESIGN ENTITLED "CTU2154_2019-LTE-Next-Carrier_LTE_sp656b_2051A0GGAC_10035139_4549", LAST REVISED 06/14/2018.

RF PLUMBING DIAGRAMS



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SCALE: AS SHOWN	JOB NUMBER: 18963008A
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0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
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2	09/25/18	REVISED PER COMMENTS	AJC	RA
1	09/14/18	ISSUED FOR REVIEW	AJC	RA

PETROS ISOUKALA
CONNECTICUT PROFESSIONAL ENGINEER - LICENSE NUMBER: 32577

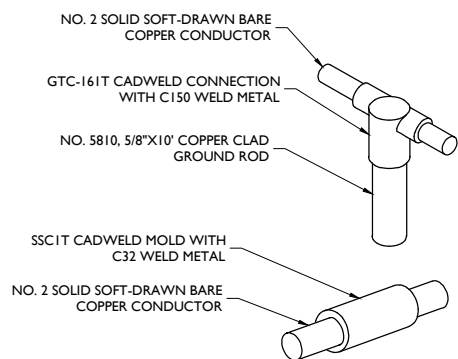
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NEW HAVEN COUNTY

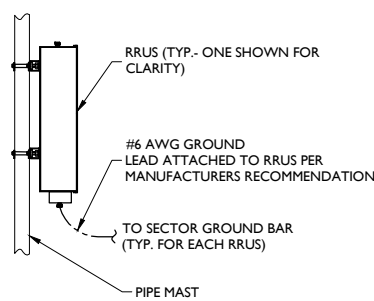
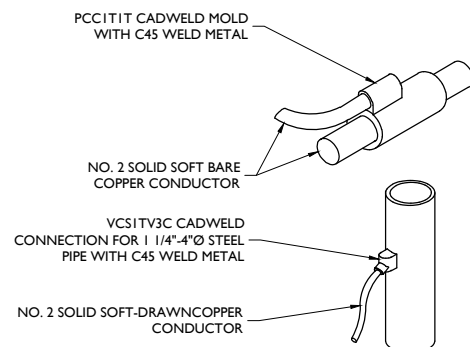
RED BANK OFFICE
Newman Springs Road
Suite 203
Red Bank, NJ 07701-5699
Phone: 732.383.1950
Fax: 732.383.1984
email: solutions@maserconsulting.com

SHEET TITLE: **GROUNDING DETAILS**

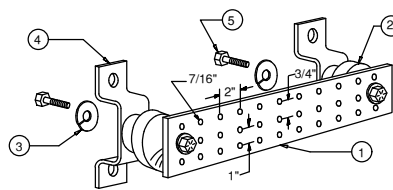
SHEET NUMBER: **G-1**



CADWELD DETAILS
NOT TO SCALE



RRU GROUNDING
NOT TO SCALE



- LEGEND**
- 1- TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - 2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
 - 3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
 - 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-5056
 - 5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
 - 6- EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

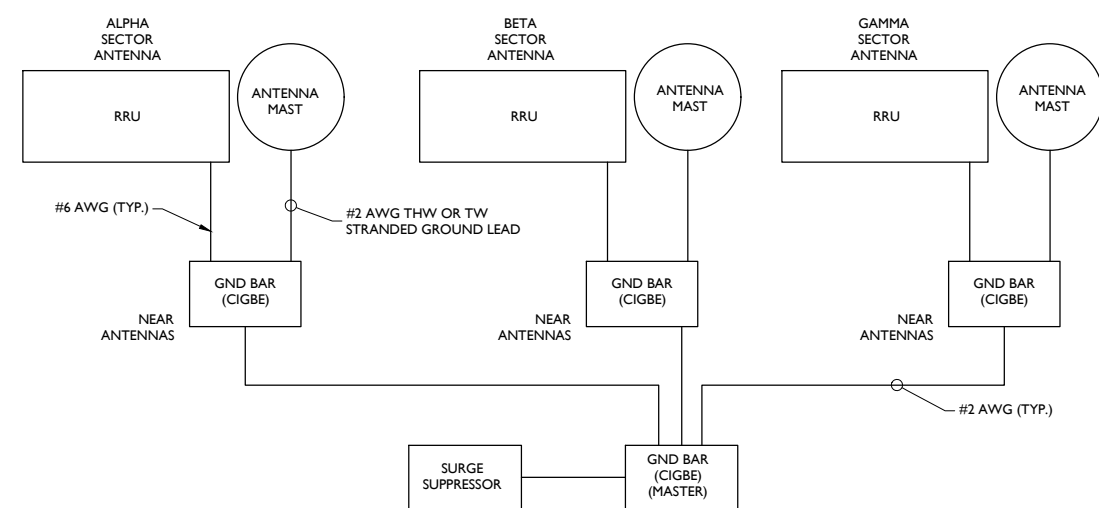
SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.

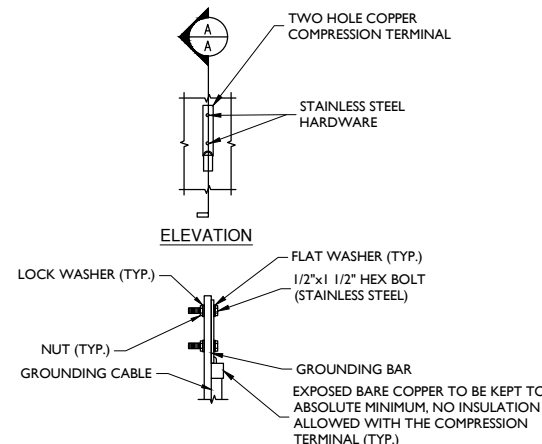
SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

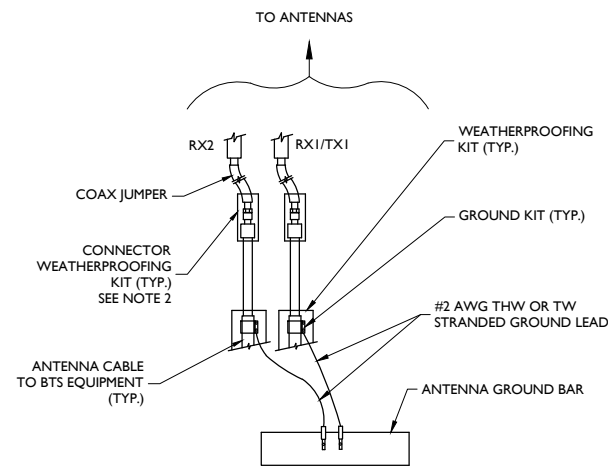
MASTER GROUND BAR
NOT TO SCALE



SCHEMATIC DIAGRAM GROUNDING SYSTEM

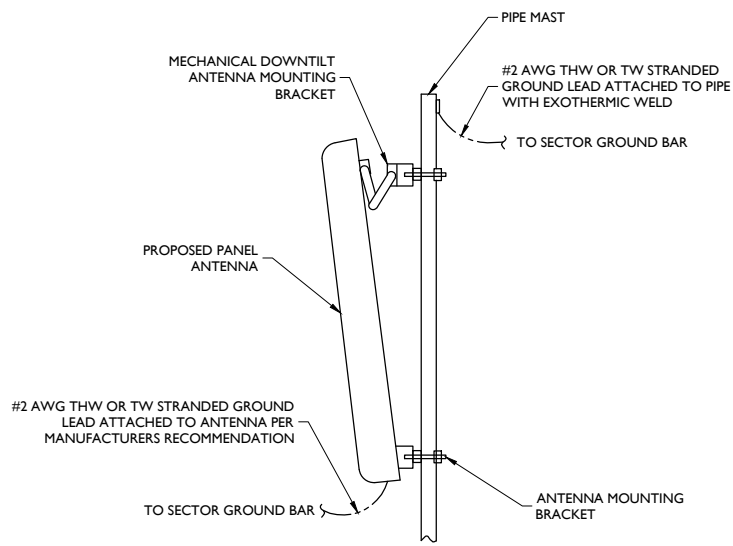


TYPICAL GROUND BAR CONNECTION DETAIL
NOT TO SCALE

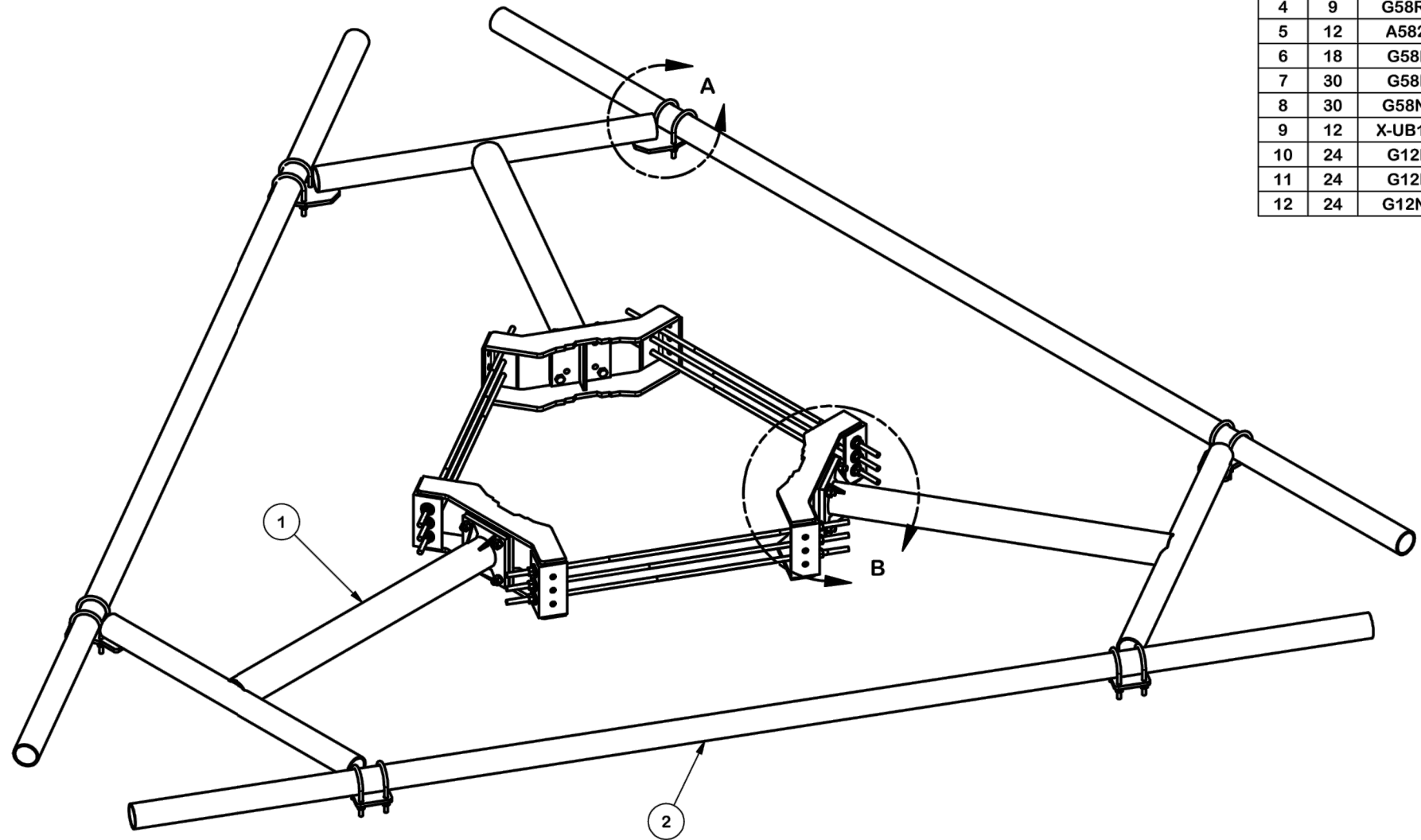


- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

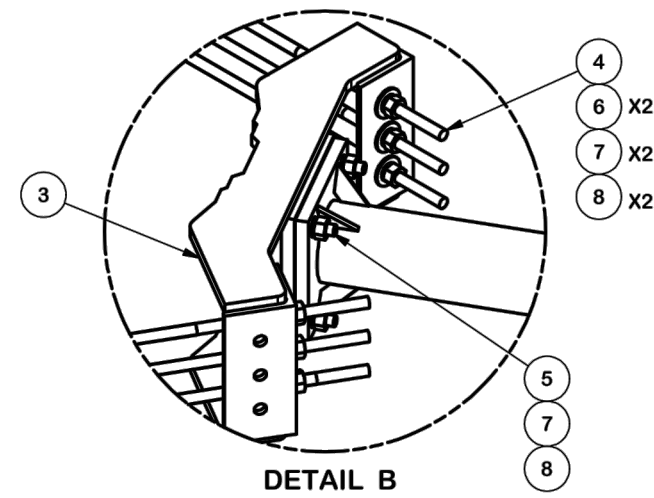
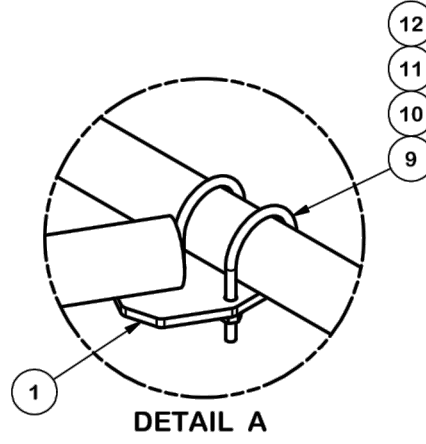
TYPICAL GROUND WIRE TO GROUNDING BAR
NOT TO SCALE



ANTENNA GROUNDING
NOT TO SCALE



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-ULP	SUPPORT ARM WELDMENT - 36"		103.07	309.20
2	3	P3174	3-1/2" X 174" SCH 40 GALVANIZED PIPE	174 in	109.97	329.90
3	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
4	9	G58R-24	5/8" X 24" GALV THREADED ROD		2.20	19.76
4	9	G58R-48	5/8" X 48" GALV THREADED ROD		4.39	39.52
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	18	G58FW	5/8" HDG USS FLATWASHER		0.07	1.27
7	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
8	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
9	12	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	3.08
10	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
11	24	G12LW	1/2" HDG LOCKWASHER		0.01	0.33
12	24	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.72
TOTAL WT. #					927.83	



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SCALE:	AS SHOWN	JOB NUMBER:	18963008A
REV	DATE	DESCRIPTION	BY
0	3/06/19	STRUCT. MOD. REVISION	AJC RA
3	09/27/18	REVISED PER COMMENTS	AJC RA
2	09/25/18	REVISED PER COMMENTS	AJC RA
1	09/14/18	ISSUED FOR REVIEW	AJC RA
DRAWN BY		CHECKED BY	

PETROS ISOUKALA
CONNECTICUT PROFESSIONAL ENGINEER - LICENSE NUMBER: 32577

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SITE NAME:
WALLINGFORD
FA#: 10035139
SITE #: CT3265
945 EAST CENTER STREET
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

RED BANK OFFICE
Newman Springs Road
Suite 203
Red Bank, NJ 07701-5699
Phone: 732.383.1950
Fax: 732.383.1984
email: solutions@maserconsulting.com

TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

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
ULTRA LOW PROFILE RIDGED T-ARM

SITE PRO 1 Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 7/7/2015		ULP14-NP
CLASS	DRAWING USAGE	CHECKED BY	DWG. NO.
81	CUSTOMER	BMC 7/7/2015	ULP14-NP



March 18, 2019

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

cc: via email to Evan.Robidoux@ct.gov & Siting.Council@ct.gov

Regarding: EM-AT&T-148-190204 - Notice of Exempt Modification –
Antenna Modification
Property Address: 945 East Center Street; Wallingford, CT 06492 (the “Property”)
Applicant: AT&T Mobility (“AT&T”, Site # CT2154)

Dear Ms. Bachman:

I am in receipt of the Council’s letter dated March 1, 2019, noting a deficiency in the documents submitted to support the above-referenced application for Exempt Modification for AT&T at 945 East Center Street in Wallingford, Connecticut.

Attached herewith are updated Construction Drawings to reflect reference to the 2019 Connecticut State Building Code. The new Construction Drawings are by maser Consulting and are stamped and dated March 6, 2019.

Please accept this as an addendum to the notification dated February 4, 2019, pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72 (b)(2).

Should you have any further requests or concerns, please don’t hesitate to let me know.

Sincerely,

Kristen White

Kristen White
Site Acquisition Supervisor
Empire Telecom USA, LLC
kwhite@empiretelecomm.com

Enclosures: Revised Construction Drawings dated March 6, 2019

PROJECT NOTES

1. SITE INFORMATION OBTAINED FROM THE FOLLOWING:
 - A. PLAN ENTITLED "WALLINGFORD" PREPARED BY CENTEK ENGINEERING OF BRANFORD, CT LAST REVISED 09/19/2016.
 - B. LIMITED FIELD OBSERVATION BY MASER CONSULTING ON 05/29/2018.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. 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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. 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 MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. THE PROPOSED FACILITY WILL CAUSE AN INSIGNIFICANT OR "DE-MINIMUS" INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
11. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
12. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
13. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
14. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
15. THE TOWER, MOUNTS AND ANTENNAS SHALL BE DESIGNED TO MEET EIA/TIA-222-G AS PER IBC REQUIREMENTS.
16. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
17. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
18. CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS.
19. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.



SITE NAME: WALLINGFORD
FA NUMBER: 10035139
SITE NUMBER: CT2154
CROWN BU#: 876310
LTE: 3C/4C/5C/6C
945 EAST CENTER STREET
WALLINGFORD, CT 06492
NEW HAVEN COUNTY



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3	09/27/18	REVISED PER COMMENTS	AJC	RA
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VICINITY MAP



PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 41.4437° N
 LONGITUDE: 72.7963° W
 JURISDICTION: NEW HAVEN COUNTY

APPLICANT/LESSEE

COMPANY: NEW CINGULAR WIRELESS PCS, LLC
 ADDRESS: 550 COCHITUATE ROAD
 CITY, STATE, ZIP: FRAMINGHAM, MA 01701

STRUCTURE OWNER

COMPANY: T.B.D.
 ADDRESS: T.B.D.
 CITY, STATE, ZIP: T.B.D.

CLIENT REPRESENTATIVE

COMPANY: EMPIRE TELECOM
 ADDRESS: 16 ESQUIRE ROAD
 CITY, STATE, ZIP: BILLERICA, MA 01862
 CONTACT: DAVID COOPER
 E-MAIL: DCOOPER@EMPIRETELECOM.COM

SITE ACQUISITION

COMPANY: EMPIRE TELECOM
 ADDRESS: 16 ESQUIRE ROAD
 CITY, STATE, ZIP: BILLERICA, MA 01862
 CONTACT: DAVID COOPER
 E-MAIL: DCOOPER@EMPIRETELECOM.COM

ENGINEER

COMPANY: MASER CONSULTING CT
 ADDRESS: 2000 MIDLANTIC DRIVE, SUITE 100
 CITY, STATE, ZIP: RED BANK, NJ 07701-5699
 CONTACT: ROBERT ANDREWS
 PHONE: (856) 797-0412
 E-MAIL: RANDREWS@MASERCONSULTING.COM

**PROJECT DESCRIPTION/
SCOPE OF WORK**

- INSTALL (5) NEW RRU'S AT GRADE
- INSTALL (6) NEW RRU'S, (2) PER SECTOR
- INSTALL (3) NEW PANEL ANTENNAS, (1) PER SECTOR
- REMOVE (3) EXISTING PANEL ANTENNAS, (1) PER SECTOR
- REMOVE (12) DIPLEXERS, (4) PER SECTOR
- INSTALL (3) LOW BAND COMBINERS, (1) PER SECTOR
- INSTALL (3) LOW BAND COMBINERS AT GRADE
- INSTALL (1) NEW DC-6 SURGE SUPPRESSION DOME
- INSTALL (1) NEW 18-PAIR FIBER CABLE
- INSTALL (2) NEW 6/C DC CABLES
- SWAP DUS WITH 5216 AND ADD 2ND XMU
- ADD 2ND 5216 + IDL6 AND (1) RBS 6630

PROPOSED PROJECT SCOPE BASED ON RFDS ID# 2310393, VERSION 2.00, LAST UPDATED 06/14/2018.

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	COMPOUND PLAN
C-2	EQUIPMENT LAYOUT AND ELEVATION VIEW
C-3	ANTENNA LAYOUTS AND ANTENNA SCHEDULE
A-1	CONSTRUCTION DETAILS
A-2	CONSTRUCTION DETAILS
A-3	RF PLUMBING DIAGRAM
G-1	GROUNDING DETAILS AND NOTES
S-1	STRUCTURAL DETAILS

CODE COMPLIANCE

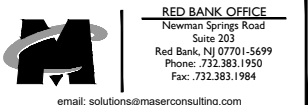
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- | | |
|---|--|
| 1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC | 8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION |
| 2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70 | 9. TELCORDIA GR-1275 |
| 3. 2017 NFPA 101 | 10. ANSI T1.311 |
| 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10 | 11. PROPOSED USE: UNMANNED TELECOM FACILITY |
| 5. AMERICAN CONCRETE INSTITUTE | 12. HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. |
| 6. TIA-222-G | 13. CONSTRUCTION TYPE: IIB |
| 7. TIA 607 FOR GROUNDING | 14. USE GROUP: U |

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RED BANK OFFICE
 Newman Springs Road
 Suite 203
 Red Bank, NJ 07701-5699
 Phone: 732.383.1950
 Fax: 732.383.1984
 email: solutions@maserconsulting.com

SHEET TITLE:

TITLE SHEET


SHEET NUMBER:

T-1

GENERAL NOTES:

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 50 HNS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - EMPIRE TELECOM
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T (NEW CINGULAR WIRELESS PCS, LLC)
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE RESPONSIBLE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS.
- ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN ALERT OF DANGEROUS EXPOSURE LEVELS.



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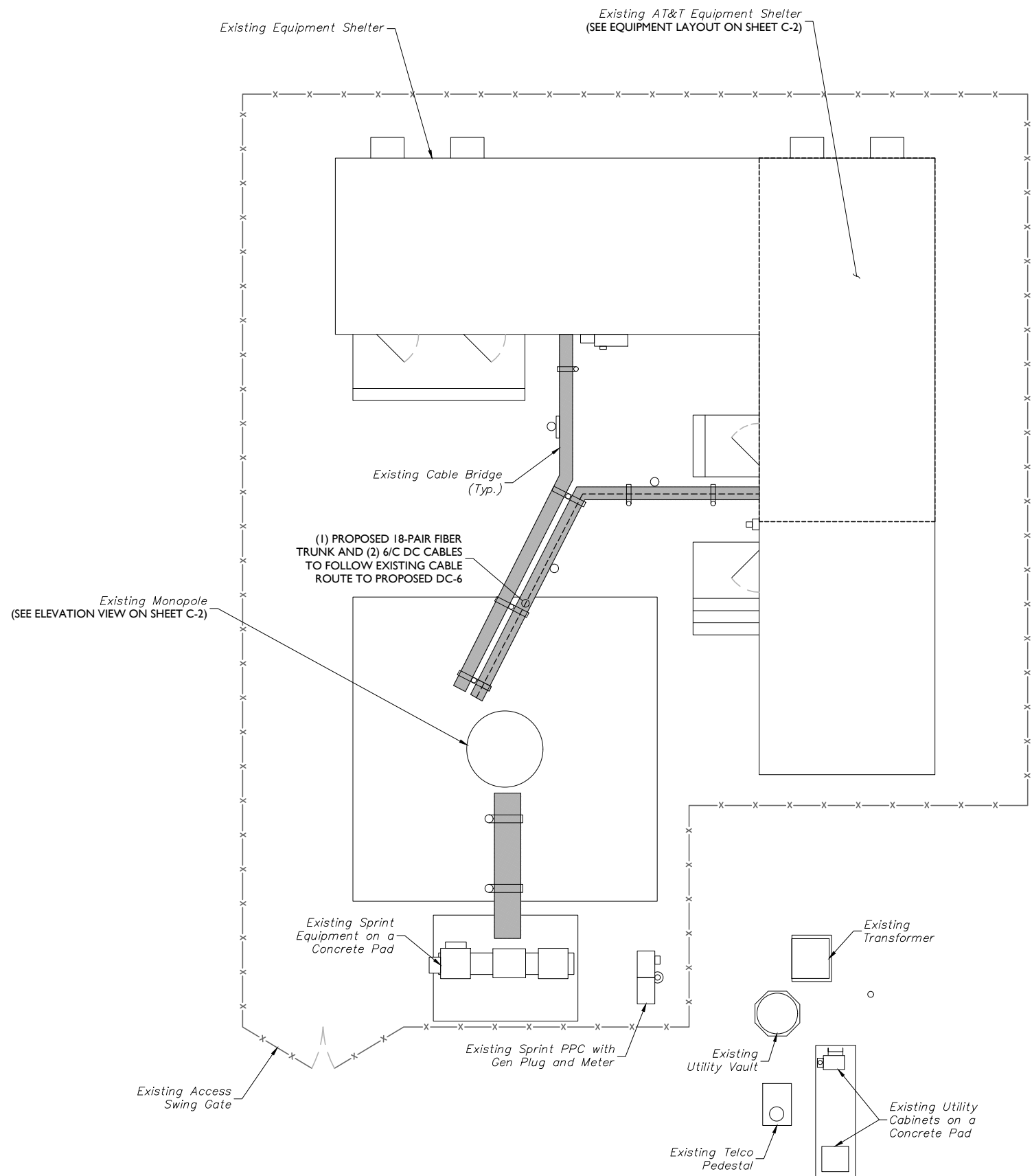
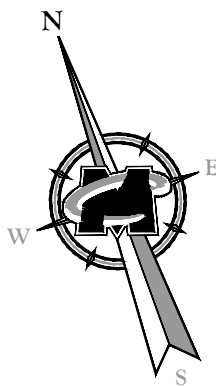
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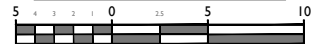
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SHEET TITLE:
STRUCTURAL DETAILS

SHEET NUMBER:
S-1



COMPOUND PLAN



SCALE: 1" = 5' FOR 22"X34"
(SCALE: 1" = 10' FOR 11"X17')

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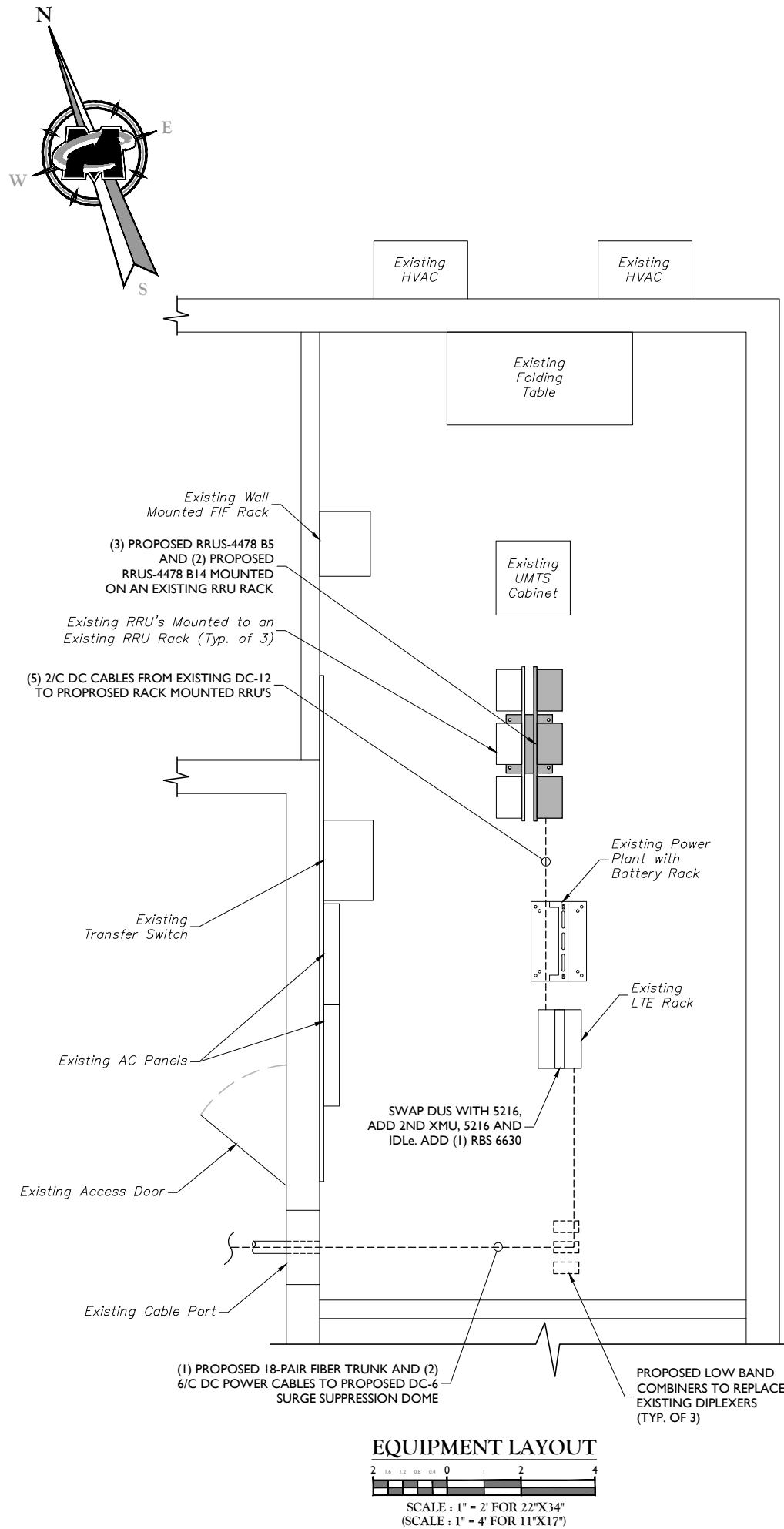
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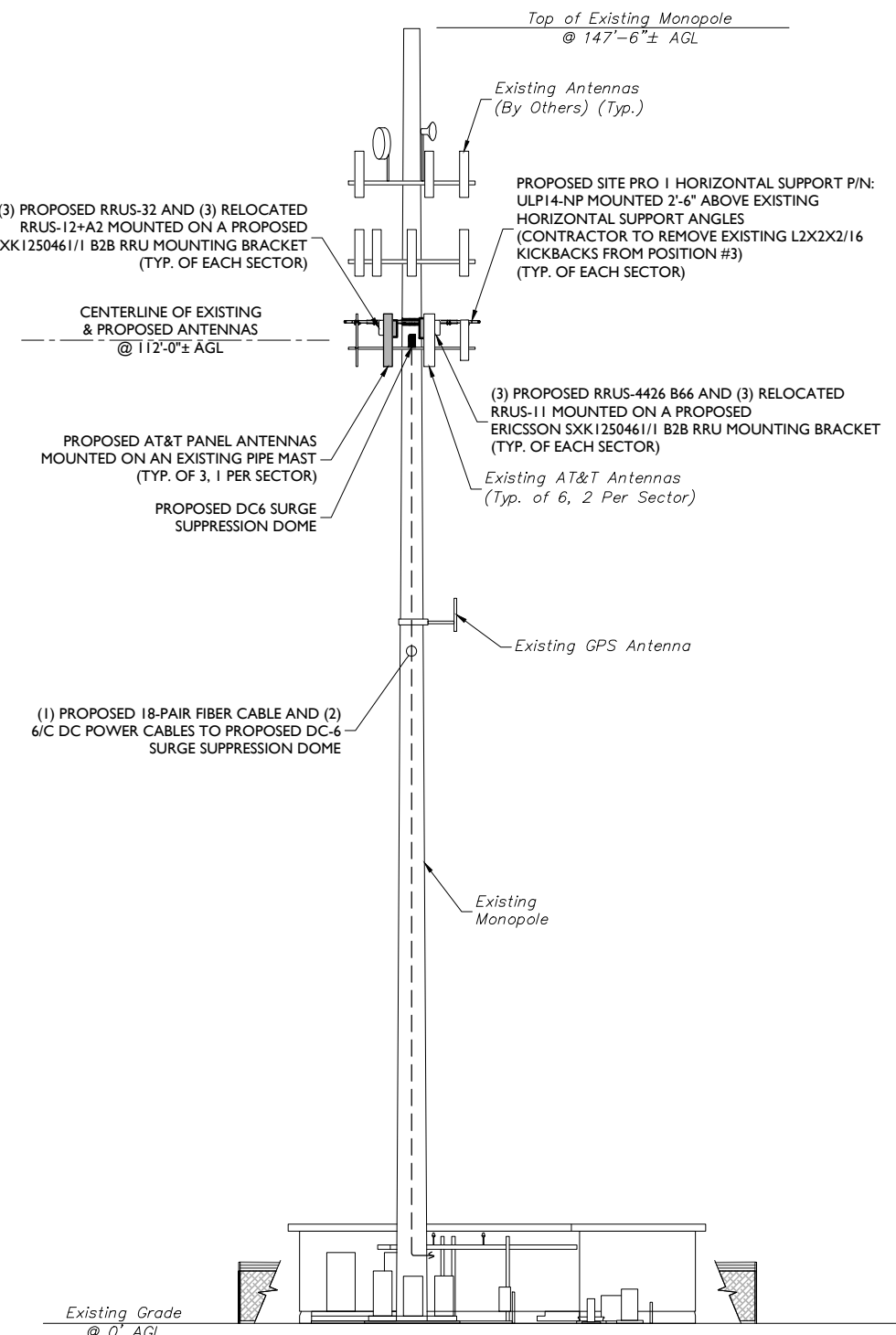
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C-1

3/20/19 18963008A Connecticut 010035139 CT154_CD_Rev A.dwg (C-1) By: ACDA



STRUCTURAL NOTES:

- MASER CONSULTING P.A. HAS NOT BEEN CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER AND THEREFORE ASSUMES NO RESPONSIBILITY FOR THE STRUCTURAL CAPACITY AS REQUIRED UNDER THE MOST CURRENT LOCAL, STATE AND FEDERAL CODES. A STRUCTURAL ANALYSIS OF THE TOWER AND TOWER FOUNDATION MUST BE PREPARED BY AN APPROPRIATE LICENSED STRUCTURAL ENGINEER CERTIFYING THAT THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS, CABLES AND APPURTENANCES COMPLIES WITH THE MOST CURRENT LOCAL, STATE AND FEDERAL CODES.
- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, CABLES, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.



ELEVATION VIEW
 SCALE: 1" = 10' FOR 22"X34"
 SCALE: 1" = 20' FOR 11"X17"

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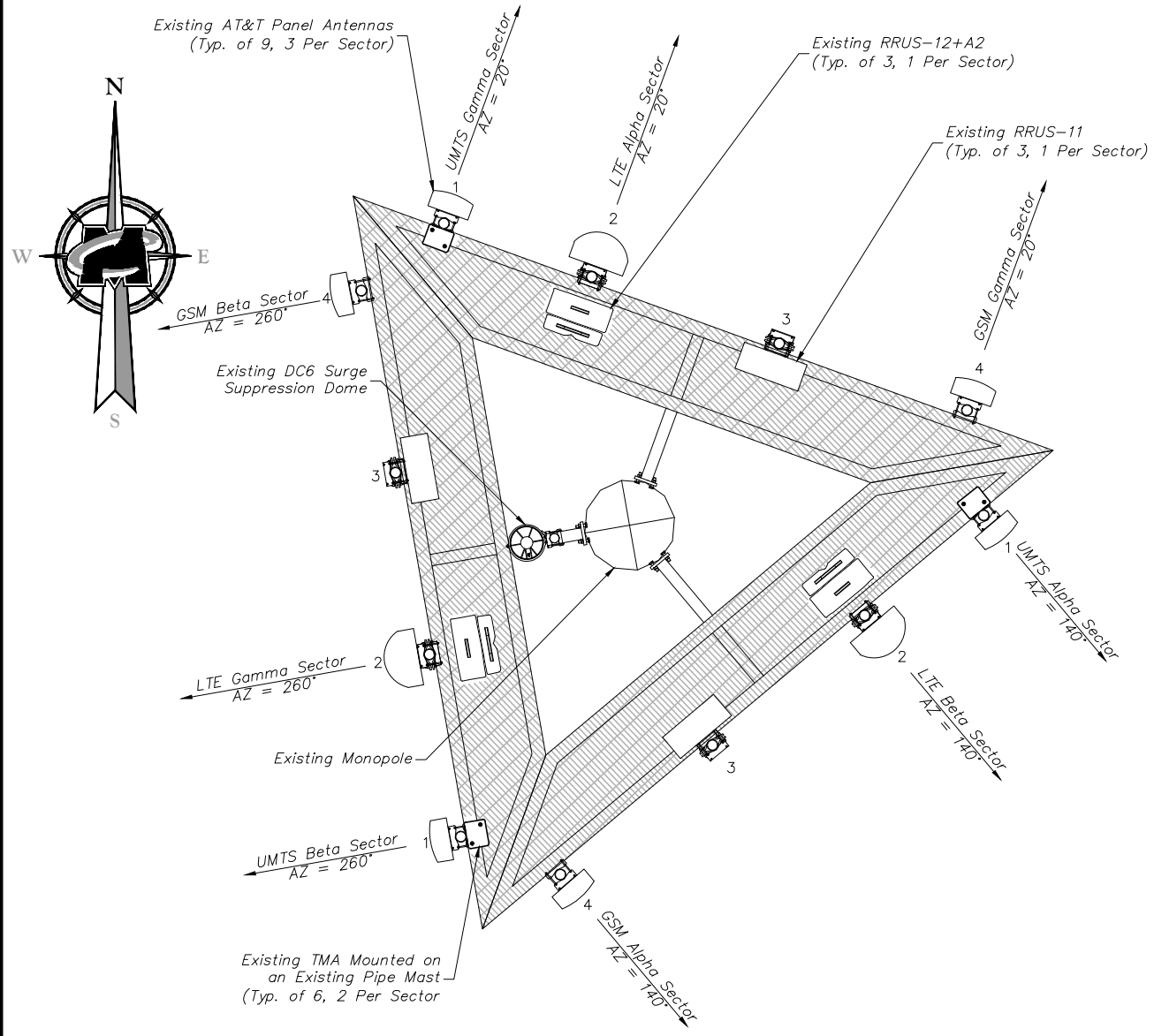


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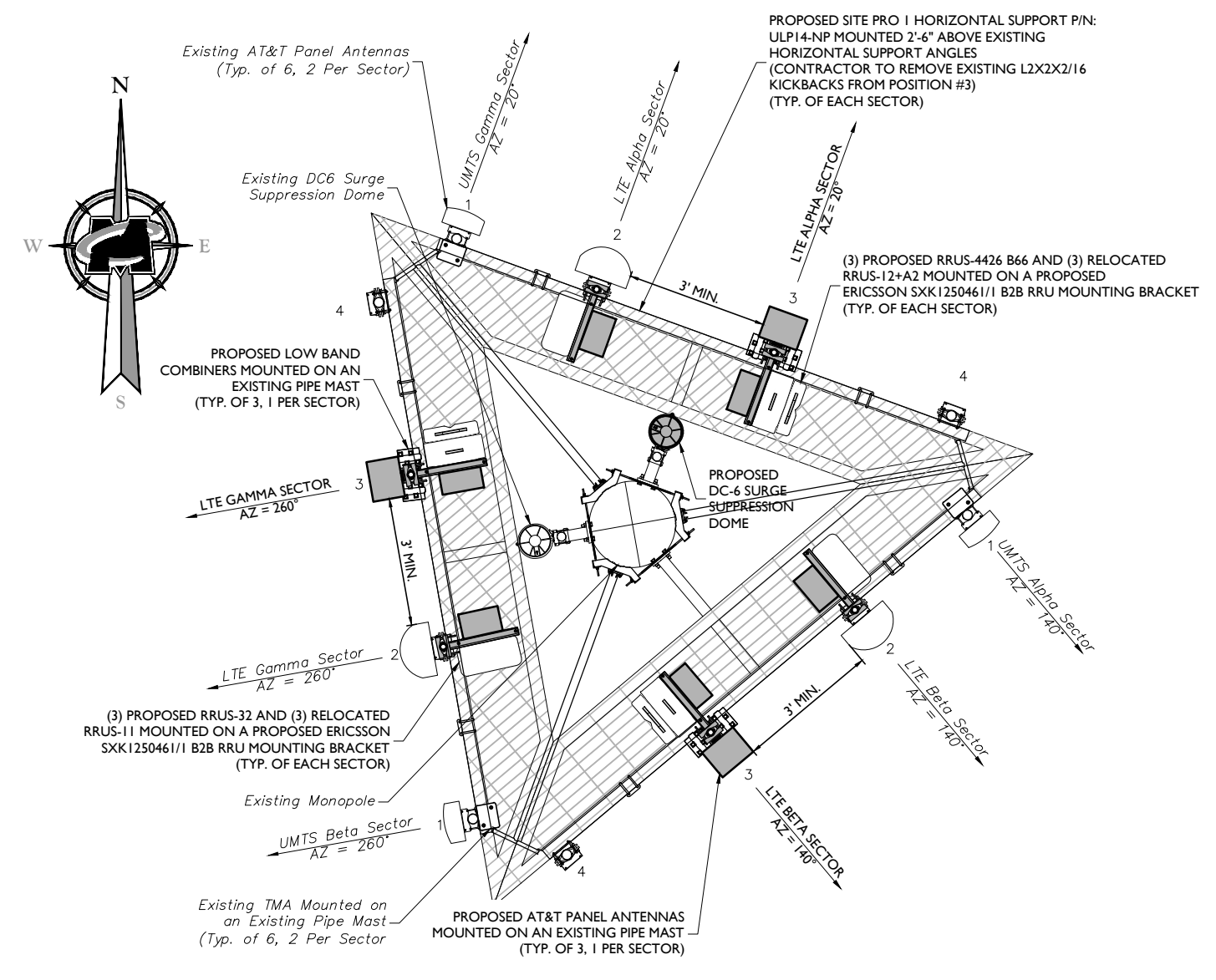
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SHEET TITLE:
EQUIPMENT LAYOUT AND ELEVATION VIEW
 SHEET NUMBER:
C-2



EXISTING ANTENNA LAYOUT
NOT TO SCALE



PROPOSED ANTENNA LAYOUT
NOT TO SCALE

ANTENNA SCHEDULE														
SECTOR	EXISTING ANTENNA	PROPOSED ANTENNA	TECHNOLOGY	ANTENNA STATUS	HEIGHT (in)	WIDTH (in)	DEPTH (in)	WEIGHT (lbs)	ANTENNA AZIMUTH (DEG.)	ANT. CL. ELEV. (ft.)	REMOTE RADIO/TMA CONFIGURATION	TRANSMISSION CABLE		
												QUANTITY	TYPE	STATUS
Sector 1	1	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	140	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	20	112'	(1) RRUS-11 (1) RRUS-4426 B66	1/2	FIBER/DC	EXISTING
	3	QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	20	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE) (1) RRUS-32 (1) RRUS-12+A2	1/2	FIBER/DC	PROPOSED
	4	POWERWAVE 7770	-	REMOVED	-	-	-	-	-	-	-	-	-	-
Sector 2	1	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	260	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	140	112'	(1) RRUS-11 (1) RRUS-4426 B66	1/2	FIBER/DC	EXISTING
	3	QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	140	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE)	1/2	FIBER/DC	PROPOSED
	4	POWERWAVE 7770	-	REMOVED	-	-	-	-	-	-	-	-	-	-
Sector 3	1	POWERWAVE 7770	UMTS	EXISTING	55.00	11.00	5.00	35.00	20	112'	(2) LGP 21901 DIPLEXER (2) LGP 21401 TMA	2	1 1/4" COAX	EXISTING
	2	CCI HPA-65R-BLUU46	LTE	EXISTING	72.30	14.40	7.30	55.50	260	112'	(1) RRUS-11 (1) RRUS-4426 B66	1/2	FIBER/DC	EXISTING
	3	QUINTEL QS66512-2	LTE	PROPOSED	72.00	12.00	9.60	126.60	260	112'	(2) BDCT108FV92-1 (1) RRUS-4478 B14 (AT GRADE) (1) RRUS-4478 B5 (AT GRADE)	1/2	FIBER/DC	PROPOSED
	4	POWERWAVE 7770	-	REMOVED	-	-	-	-	-	-	-	-	-	-

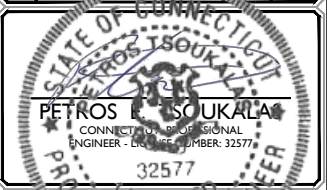
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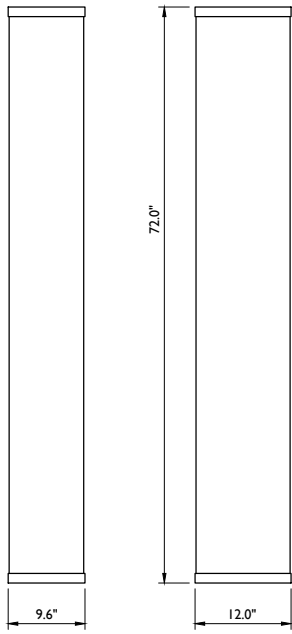
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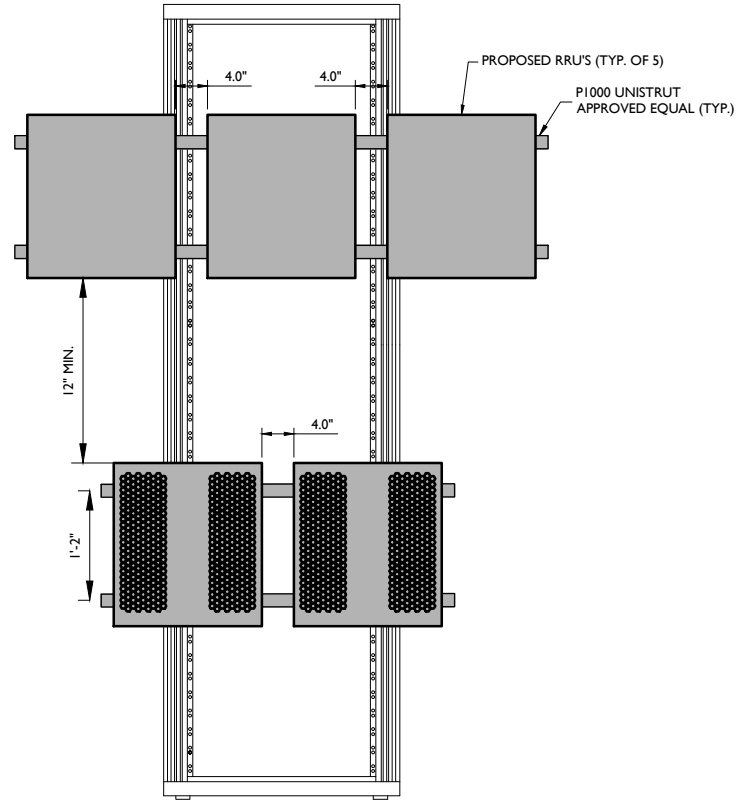
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ANTENNA LAYOUTS AND ANTENNA SCHEDULE
SHEET NUMBER:
C-3

3/20/19 10:00AM Connecticut 010035139_C3.ctb Rev A.ctb 3



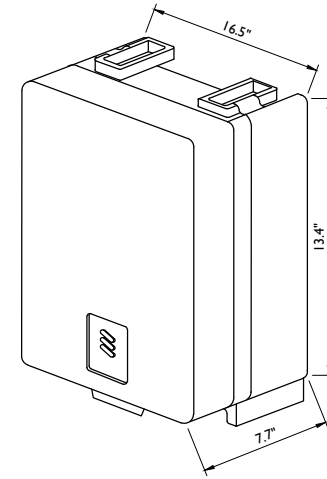
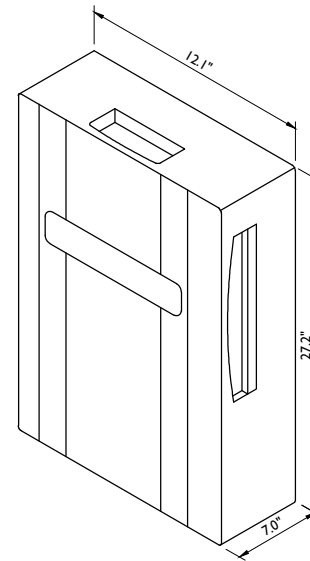
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QUINTEL QS665 12-2
ANTENNA DETAIL
NOT TO SCALE



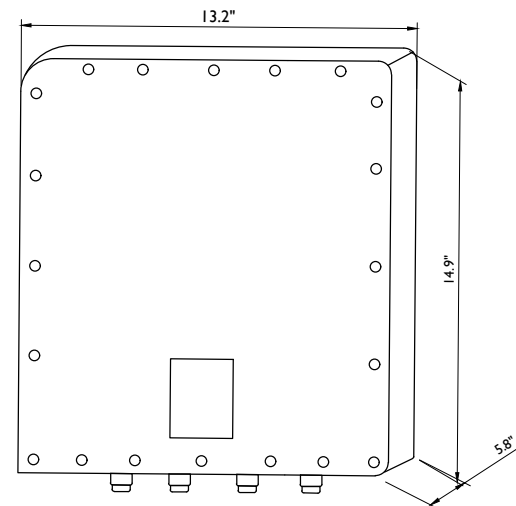
RRUS-32 DIMENSIONS (H X W X D): 27.2" X 12.1" X 7.0" (INCLUDES SUNSHIELD)
WEIGHT: 53 LBS

RRUS-32 DETAIL
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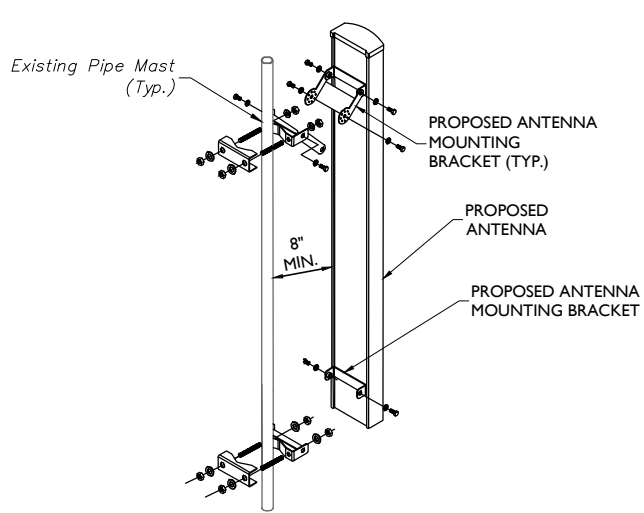
DIMENSIONS (H X W X D): 16.5"H X 13.4"W X 7.7"D (INCLUDES SUNSHIELD)
WEIGHT: 59.9 LBS

RRU-4478-B5 DETAIL
NOT TO SCALE



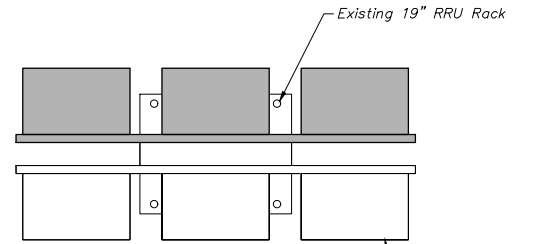
RRUS 4426 B66 DIMENSIONS (H X W X D): 14.9" X 13.2" X 5.9"
(INCLUDES SUNSHIELD) WEIGHT: 48 LBS

RRUS 4426 B66 DETAIL
NOT TO SCALE

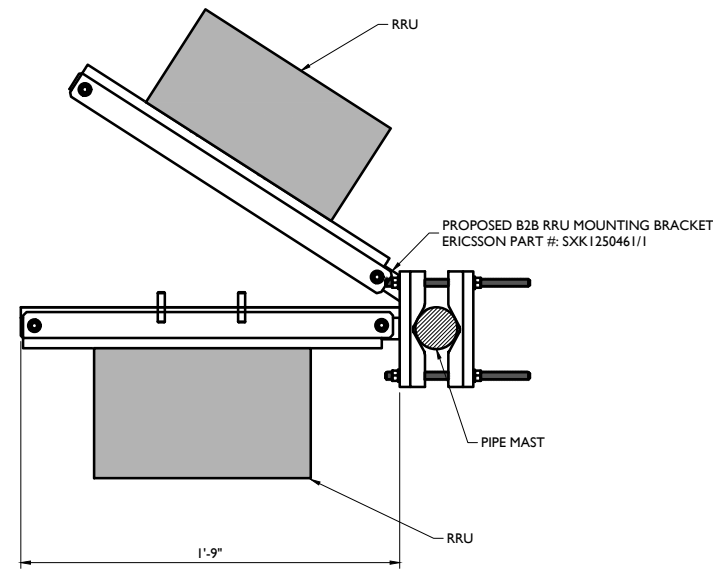


ANTENNA MOUNTING DETAIL
NOT TO SCALE

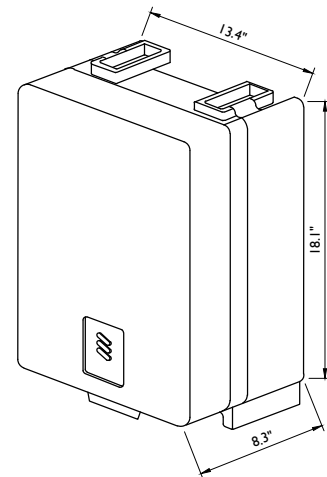
8" MINIMUM SEPERATION REQUIRED FROM BACK OF PANEL ANTENNA TO ANY EXISTING/PROPOSED EQUIPMENT



RRU RACK MOUNT DETAIL
NOT TO SCALE



RRU MOUNTING DETAIL
NOT TO SCALE



DIMENSIONS (H X W X D): 18.1"H X 13.4"W X 8.3"D (INCLUDES SUNSHIELD)
WEIGHT: 59.4 LBS

RRUS-4478 B14 DETAIL
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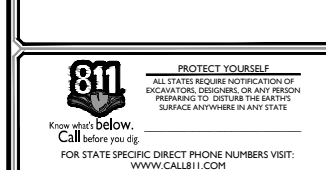
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1	09/14/18	ISSUED FOR REVIEW	AJC / RA

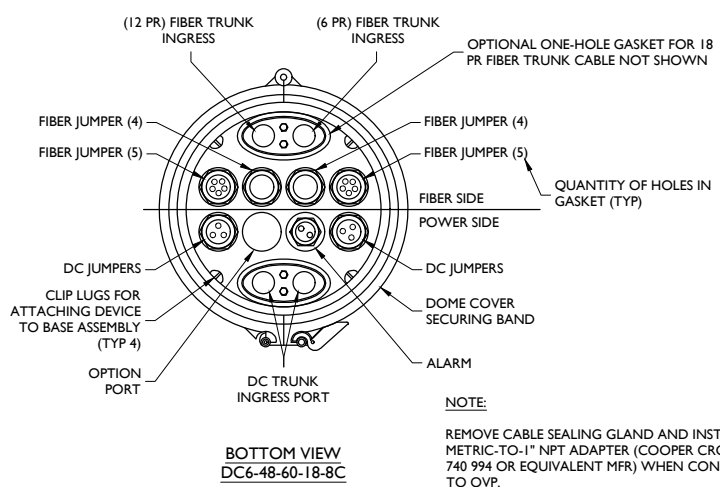
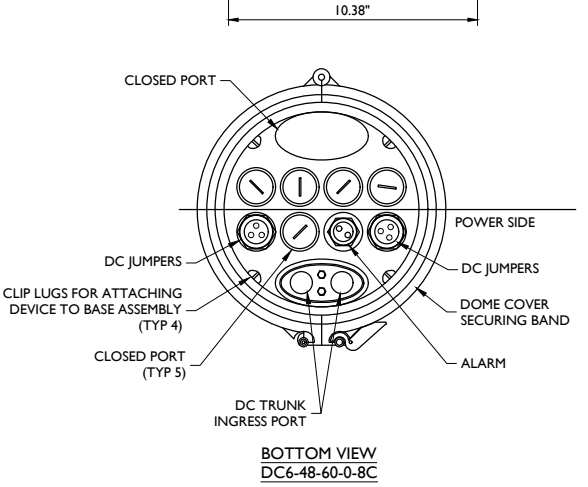
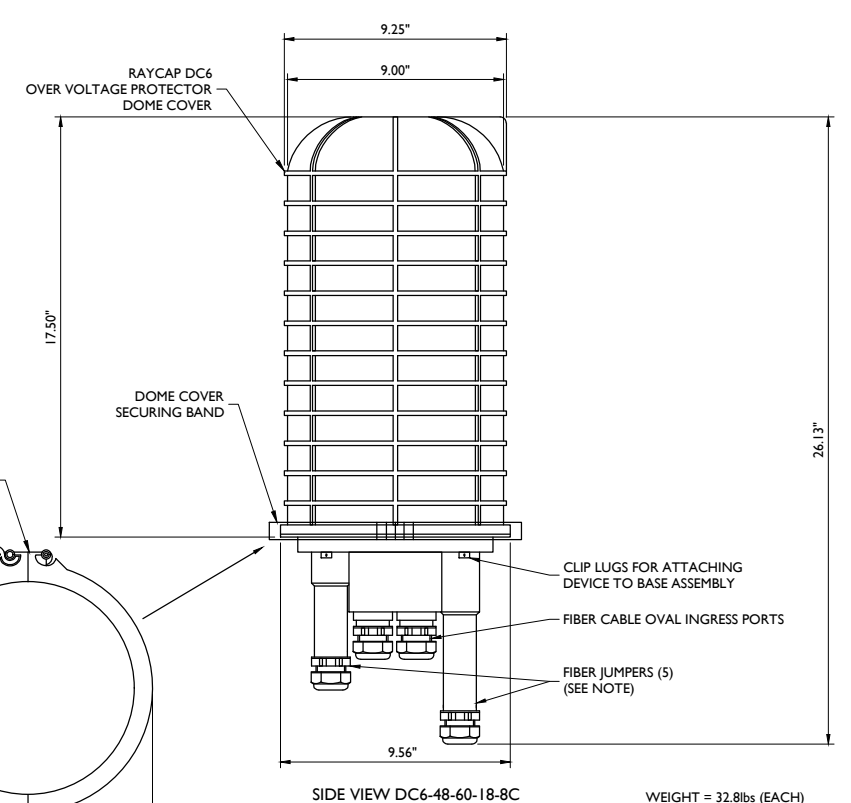
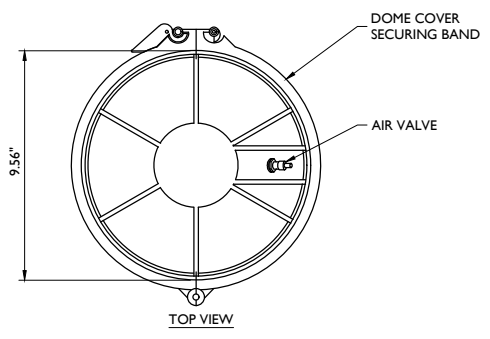


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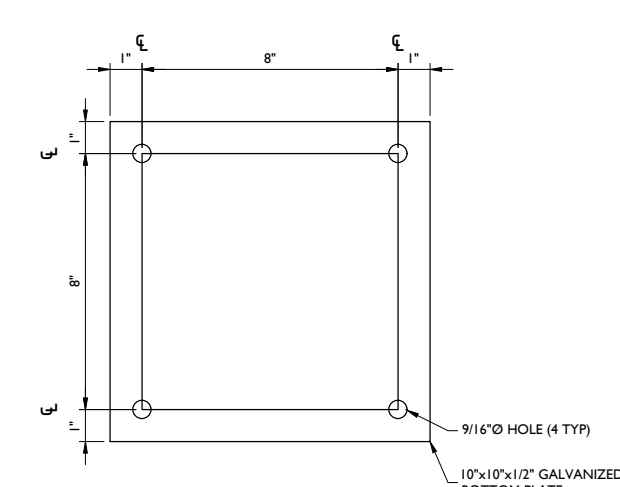
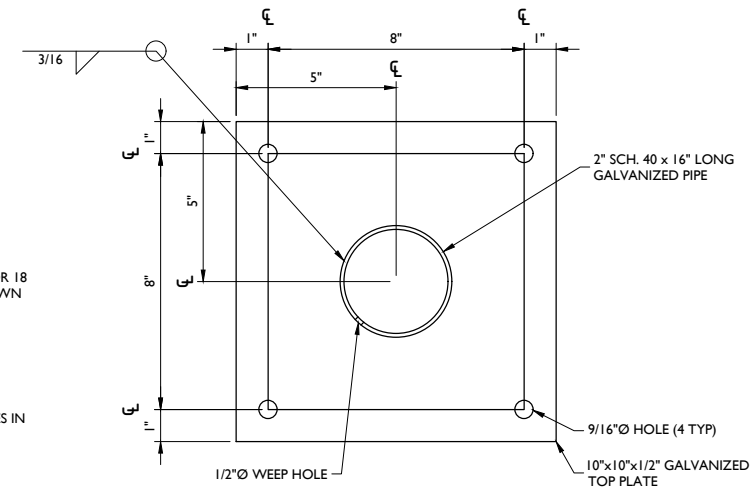
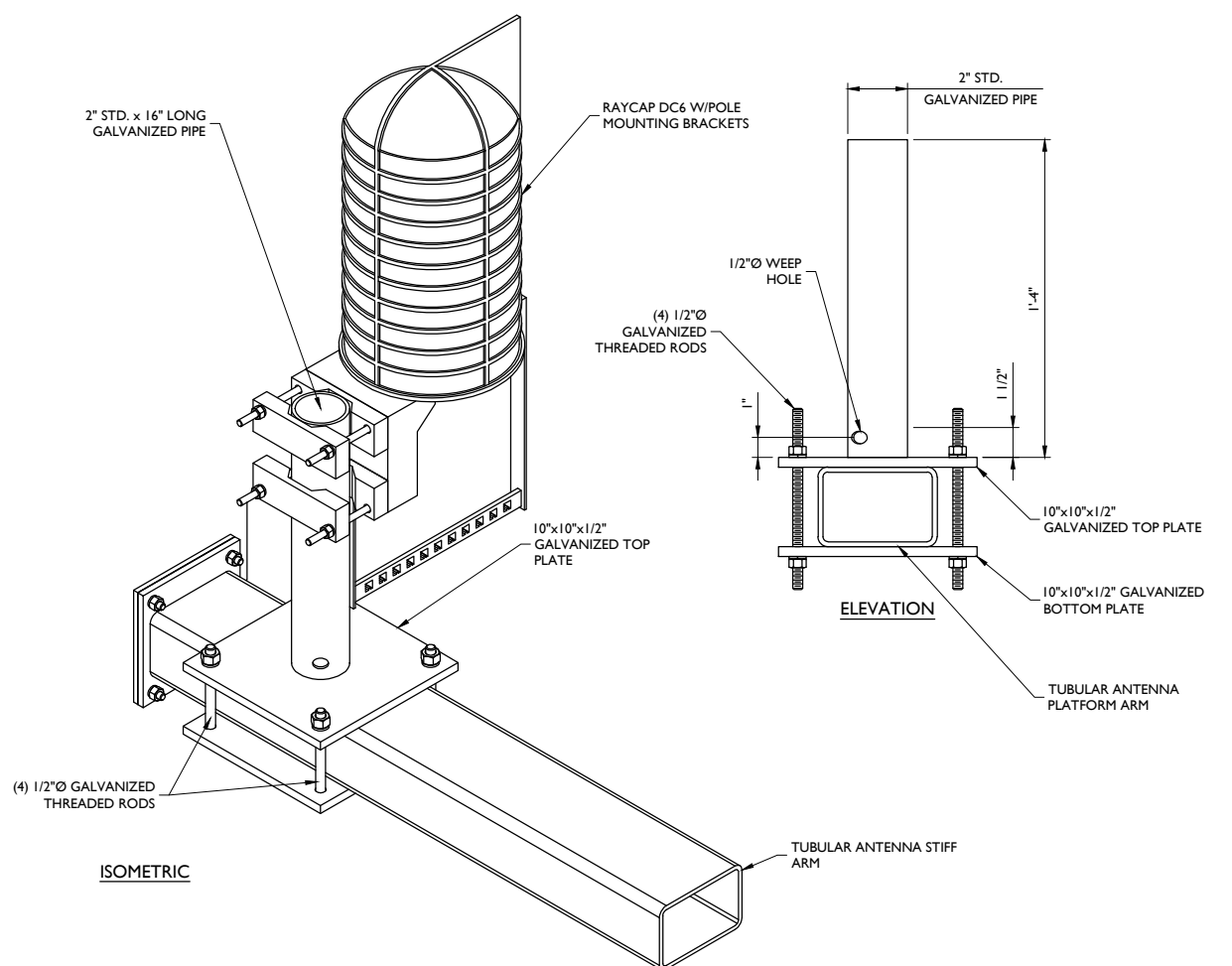
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 Newman Springs Road
 Suite 203
 Red Bank, NJ 07701-5699
 Phone: 732.383.1950
 Fax: 732.383.1984
 email: solutions@maserconsulting.com

SHEET TITLE:
DETAILS
 SHEET NUMBER:
A-2



DC6 SURGE SUPPRESSION DOME DETAIL
 NOT TO SCALE

NOTE:
 REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1\" NPT ADAPTER (COOPER CROUSE-HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.



DC6 SURGE SUPPRESSION DOME MOUNTING DETAIL (TUBE)
 NOT TO SCALE

3/20/19 18963008A Connecticut 010035139 CT154 CD Rev A (4/19) 3



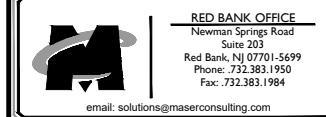
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REV	DATE	DESCRIPTION	BY
0	3/06/19	STRUCT. MOD. REVISION	AJC RA
3	09/27/18	REVISED PER COMMENTS	AJC RA
2	09/25/18	REVISED PER COMMENTS	AJC RA
1	09/14/18	ISSUED FOR REVIEW	AJC RA



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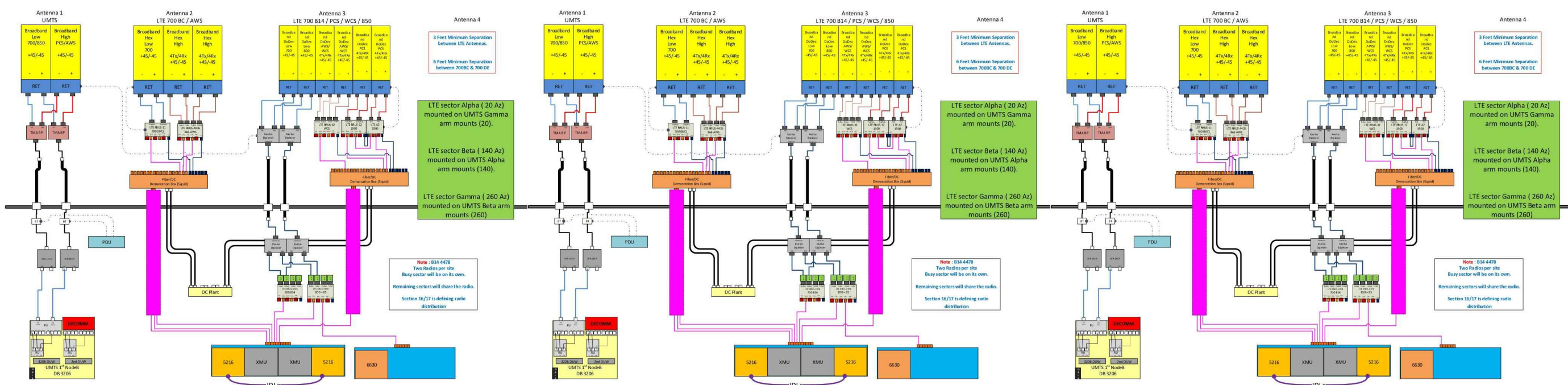
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SHEET TITLE:	RF PLUMBING DIAGRAM
SHEET NUMBER:	A-3

Diagram - Sector A, B, C; Diagram File Name - CT2154_ABC_Multicarrier_5G_vsd; Location Name - WALLINGFORD; Market - CONNECTICUT; Market Cluster - NEW ENGLAND; Comments - Important Note: For detailed radio to antenna wiring refer to the latest 4TAR Antenna/ radio Port connections Field Notice (RF-HW-2016-285).



BASED ON: RF ENGINEERING DESIGN ENTITLED "CTU2154_2019-LTE-Next-Carrier_LTE_sp656b_2051A0GGAC_10035139_4549", LAST REVISED 06/14/2018.

RF PLUMBING DIAGRAMS

32004189A0000A Connecticut 010035139 CT154_CD_Rev A.dwg-A-3 By: ACCO

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0	3/06/19	STRUCT. MOD. REVISION	AJC	RA
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2	09/25/18	REVISED PER COMMENTS	AJC	RA
1	09/14/18	ISSUED FOR REVIEW	AJC	RA



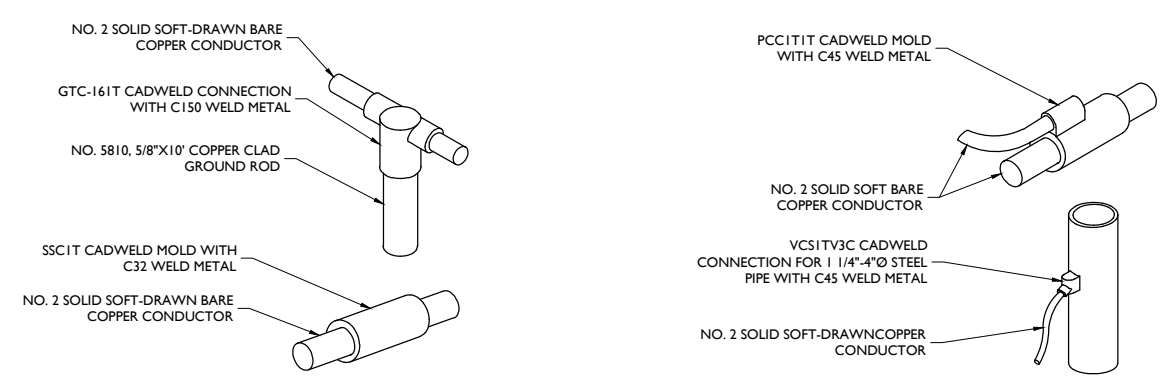
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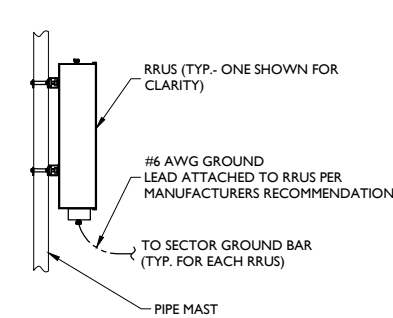
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SHEET TITLE:
GROUNDING DETAILS

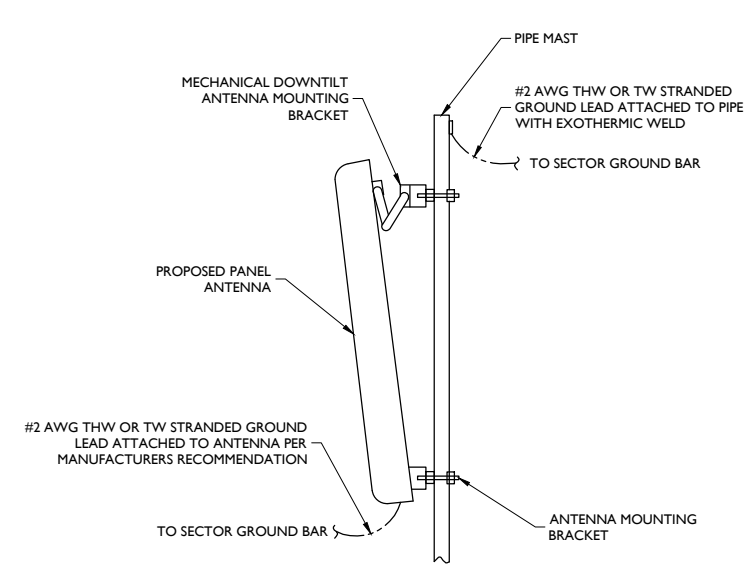
SHEET NUMBER:
G-1



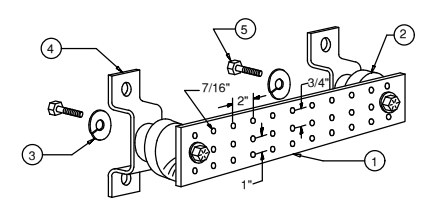
CADWELD DETAILS
NOT TO SCALE



RRU GROUNDING
NOT TO SCALE



ANTENNA GROUNDING
NOT TO SCALE



- LEGEND**
- 1- TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - 2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
 - 3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
 - 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-5056
 - 5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1
 - 6- EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

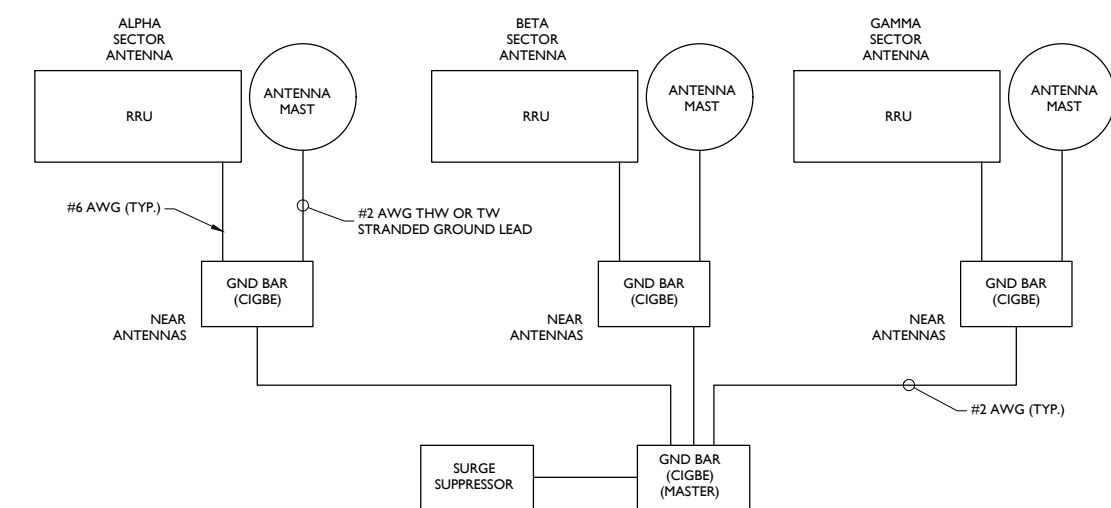
SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

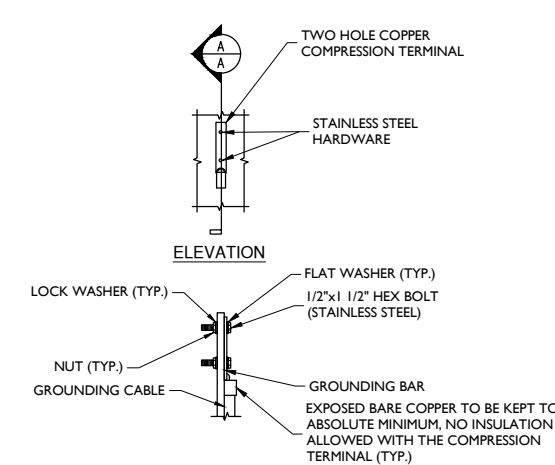
SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

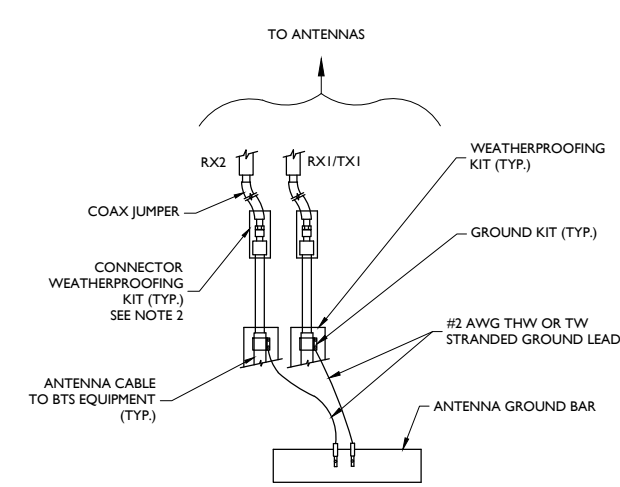
MASTER GROUND BAR
NOT TO SCALE



SCHEMATIC DIAGRAM GROUNDING SYSTEM



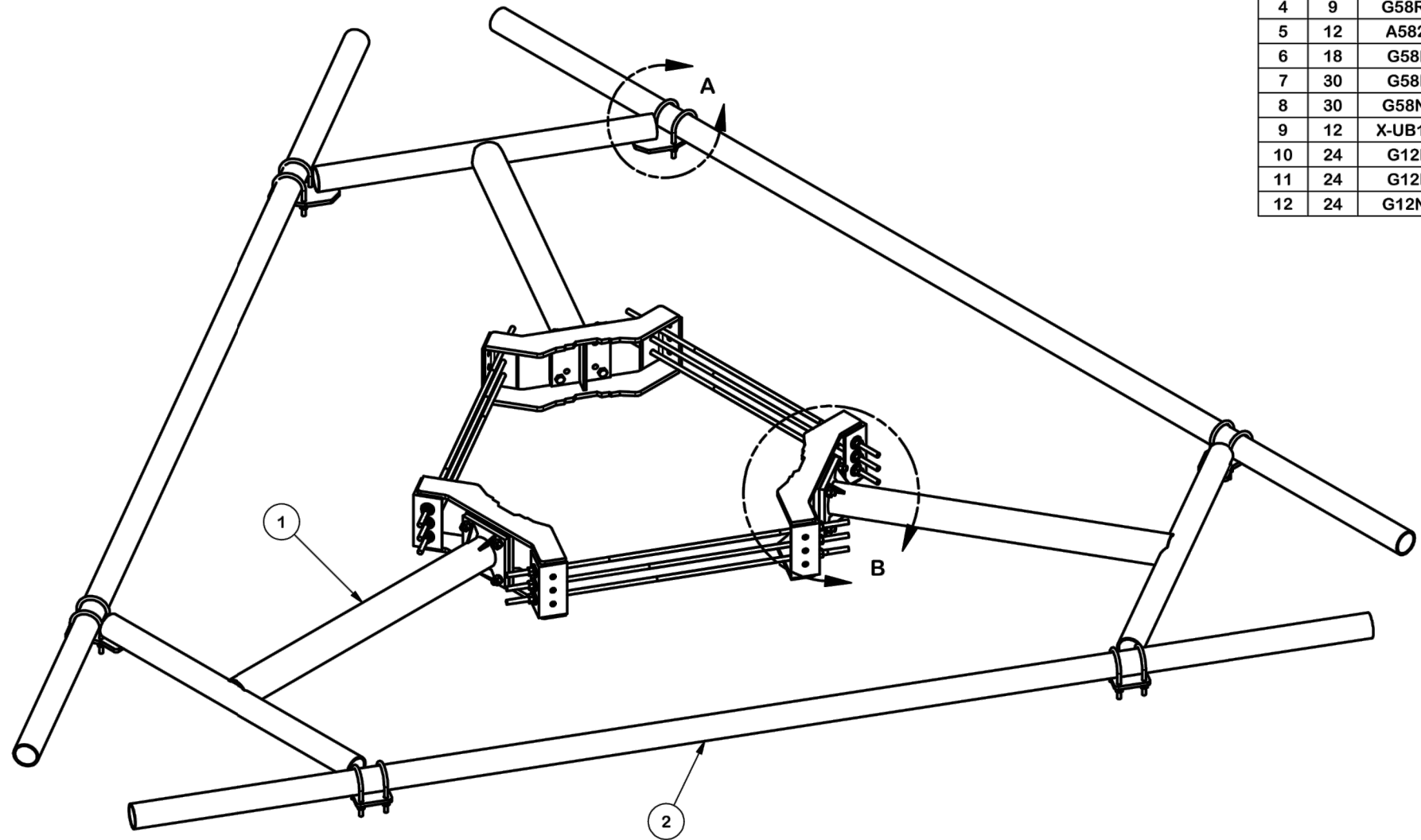
TYPICAL GROUND BAR CONNECTION DETAIL
NOT TO SCALE



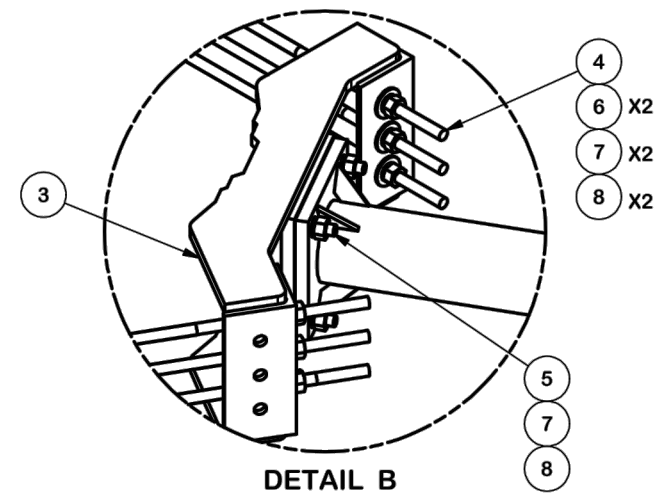
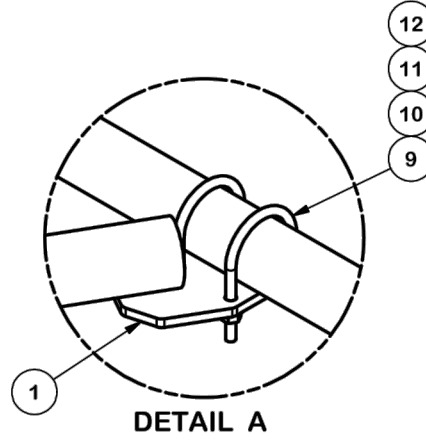
- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

TYPICAL GROUND WIRE TO GROUNDING BAR
NOT TO SCALE

3/20/2019 10:00AM Connecticut 01003139 - CT154 - CD - Rev A-04/2019



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-ULP	SUPPORT ARM WELDMENT - 36"		103.07	309.20
2	3	P3174	3-1/2" X 174" SCH 40 GALVANIZED PIPE	174 in	109.97	329.90
3	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
4	9	G58R-24	5/8" X 24" GALV THREADED ROD		2.20	19.76
4	9	G58R-48	5/8" X 48" GALV THREADED ROD		4.39	39.52
5	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
6	18	G58FW	5/8" HDG USS FLATWASHER		0.07	1.27
7	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
8	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
9	12	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	3.08
10	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
11	24	G12LW	1/2" HDG LOCKWASHER		0.01	0.33
12	24	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.72
					TOTAL WT. #	927.83



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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

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CLASS 81	SUB 01	DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/7/2015
		DWG. NO. ULP14-NP	PAGE 1 OF 2

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