

10 INDUSTRIAL AVENUE, SUITE 3 MAHWAH, NJ 07430

PHONE: 201.684.0055 FAX: 201.684.0066

July 31, 2019

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

Notice of Exempt Modification 992 Northrop Road, Wallingford CT

Latitude: 41.48938889 Longitude: -72.76833333

T-Mobile site: CT11054A /L600

Dear Ms. Bachman:

T-Mobile currently maintains (6) antennas at the 141 foot level of the existing 150 -foot monopole located at 992 Northrop Road in Wallingford CT. The monopole is owned by American Tower and the underlying property is owned by AT&T Wireless PCS Inc. T-Mobile now intends to add (3) 600/700 MHz antennas at the 141 foot level of the tower with proposed mount modifications as per the attached mount analysis.

Planned Modifications:

Remove

(2) 1-5/8" coax

Remove and Replace:

RRUs

(3) Ericsson RRUS 11 B12 (REMOVE) - (3) Ericsson Radio 4449 B12, B71 (REPLACE)

Existing to Remain:

Antennas/TMAs/RRUs/coax:

- (3) AIR 21 B4A B12P-B5P
- (3) AIR 21 B4P B2A
- (3) KRY 112 144/1
- (10) 1-5/8" coax
- (1) 1-1/4" Hybrid

Install New:

Antennas:

(3) RFS APXVAARR24 43-U-NA20 - 600 MHz / 700 MHz

Coax Cables:

(2) 1-5/8" hybrid

This facility was approved by the Wallingford Planning and Zoning Commission on June 13, 1994, with no known conditions that would restrict exempt modifications. A copy of the original facility approval is attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to The Honorable William W. Dickinson, Jr., Mayor, and Kacie Hand, Town Planner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Elizabeth Jamieson

Elizabeth Jamieson Transcend Wireless 10 Industrial Ave., Suite 3 Mahwah, New Jersey 07430 860-605-7808 EJamieson@TranscendWireless.com

cc

The Honorable William W. Dickinson, Jr., Mayor Kacie Hand, Town Planner American Tower Corp, Tower Owner AT&T Wireless PCS Inc., Property Owner

Exhibit A Original Facility Approval



Town of Wallingford, Connecticut

407-94

SPECIAL PERMIT

ISSUED TO:
NAME SMART SMR OF NEW YORK
ADDRESS 575 Corporate Drive, Suite 402, Mahwah, NJ 07430
ISSUED FOR: 1,650 sq. ft. mobile radio transmission facility
163 ft. radio tower
OWNER OF PROPERTY Anthony D. Autorino
LEGAL DESCRIPTION 1000 OF PROPERTY 990 Northrup Road
CONDITIONS OF PERMIT:
1. Mr. Costello's comments concerning the "T" driveway
2
3
4
DATE APPROVED BY PZC June 13, 1994
WALLINGFORD PLANNING AND ZONING COMMISSION
BY
ASSISTANT TOWN PLANNER

PUBLIC HEARINGS

1. Special Permit/SMART/SMR/Northrup - #407-94 (continued)

The applicant requested a special permit to install a telecommunications tower at 990 Northrup Road in Wallingford. The application is for a 150 ft. monopole with 13 ft. width antennas on top for an overall height of 163 ft.

Ms. Bogle presented the company's history. SMART SMR is building a telecommunications system throughout New York, New Jersey, and Connecticut. This system will provide digital communication by combining dispatch, interconnect, paging, and data transmission into one system. This is a dishless system which travels over the radio waves. In order for this system to operate it must have a line of sight from the transmitter to the receiver. This is why it is necessary to have a height of 150 ft. The system will cover Wallingford, Meriden, North Haven, and Rocky Hill.

This system is categorized as a public utility which requires a special permit. Towers are exempt under the regulations from having a variance.

The present site is near a parking lot occupied for Double A Transportation, Inc. This site is not suitable to build on because of the setback requirements. The site meets all the setbacks for this facility and enables the property to be developed without asking for any variances.

Ms. Bogle presented the criteria used by the applicant when looking for an appropriate site for the tower in order to provide sufficient coverage. They did investigate the possibility of putting the antenna on top of a hotel near the site. However, it would not allow adequate coverage for the area due to the rolling nature of the topography. Ms. Bogle presented the Commission with photographs to give them an idea of the structure, as well as the existing parcel.

Ms. Bogle stated in response to Ms. Bush's letter to Bristol-Myers Squibb (Attachment 1A), the applicant has to file a report with the FAA and notices are sent to surrounding airports. She did not foresee any special conditions that would be specified by the FAA for their request. The helicopters at Bristol-Myers are taking off straight up in the air and the applicant has not had a problem even being located adjacent to a helipad.

She stated it has been her experience that they would not have to light or stripe the pole because of its height. Additional photographs were distributed to the Commission showing other facilities the applicant has built in Connecticut (185 ft. in height).

Ms. Bogle stated the foundation for the tower will be 2,520 sq. ft. and the monopole will be on a $15' \times 15'$ foundation. She spoke to the Water/Sewer Division because it is a watershed area. She was informed that this use did not contribute nor inhibit the watershed and therefore, was appropriate for the area.

Ms. Bogle addressed Mr. Costello's comments (Attachment 1B) stating the plans will reflect his request to configure the driveway off Northrop Road to improve sight distance to the north.

Exhibit B Property card

1 # 8 4 ANTENNA SITES NO LAND - CELL TOWER ONLY VALUED @ S36000 PREFAB EQUIPMENT BLDG CURRENT OWNER
AT&T WIRELESS PCS INC
C/O AT&T MOBILITY
575 MOROSGO DR
SUITE 13-F WEST TOWER
ATLANTA, GA 30324 Code AT&T WIRELESS PCS INC Permit ID 4310 TEL REL TW M96 Additional Owners: 30441 30289 27905 27658 12503 Vision ID: 133242 Property Location: 1000 NORTHROP RD Year NBHD/ SUB II/A T_{YPe} 04/25/2016 03/09/2016 07/18/2013 05/13/2013 RECORD OF OWNERSHIP 01/10/2000 Description Issue Date Description Use EXEMPTIONS SSSSS Spe Zone Total Card Land Units: NBHD Name D Commercial Commercial Commercia Commercial ommercial Jescription Front Depth Record Lot GIS ID: 54/10/4 Census: Old MBLU FC MAP# TC MAP# Other ID: Level Total TOPO. Account # N20000089 ASSESSING NEIGHBORHOOD BUILDING PERMIT RECORD BK-VOLPAGE SALE DATE qu wi SALE PRICE V.C. Amount Units 009001003004 Street Index Name 2 Public Water 0 0.00 AC Parcel Total Land Area: 0 AC UTILITIES NOTES SF SUPPLEMENTAL DATA Code 73,000 15,000 15,000 15,000 25,000 Price Unit Description 08/26/2016 08/26/2016 09/27/2013 07/11/2013 0.00 Insp. Date STRT./ROAD MAP ID: 54//10/4/ Town Line? IND PARKS II ASSOC PID# Easement ENG MAP# P/Z MAP# I. Factor S.A. Disc AND LINE VALUATION SECTION 1.0000 0 1.0000 Tracing OTHER ASSESSMENTS Acre 5 Industrial Bldg #: Number LOCATION C. Factor Date Comp. 1 of 2 CHANGE 3 ANTENNAS08/26/2016 ATTACH ANTENNAE 09/27/2013 T-MOBILE- REPL EXI:07/11/2013 RENOVATE TEL CABI06/07/2012 CELL TOWER EQUIP/05/17/2010 Idx Comments Amount 2017 2017 Batch UTL BLDG Adj. Sec #: Bldg Name: Code otal: 4.2 Description Comm. Int. 1 of Notes- Adj Assessed Value Yr. Code 58,7002016 4-2 2,0002016 4-3 Net Total Appraised Parcel Value Adjustment. Valuation Method: Special Land Value Total Appraised Parcel Value Appraised Land Value (Bldg) Appraised OB (L) Value (Bldg) Appraised XF (B) Value (Bldg) Appraised Bldg. Value (Card) CURRENT ASSESSMENT This signature acknowledges a visit by a Data Collector or Assessor 60,700 PREVIOUS ASSESSMENTS (HISTORY) Code 4-2 Card Total Special Pricing Appraised Value 2222 Spe 03 APPRAISED VALUE SUMMARY VISIT/ CHANGE HISTORY of 86,700 83,900 2,800 Assessed Value Assessed Value 日の世田の 58,7002015 2,0002015 S Adj Fact 60,700D Total Land Value: .00 63 Permit Check No Measu 46 Photo 29 Field Review Print Date: 03/28/2018 11:05 58,700 2,000 State Use: 4310 Adj. Unit Price Photo Field Review Permit Check - No Measu Permit Check - No Measu 44 Code WALLINGFORD, CT 0.00 Purpose Result Assessed Value Land Value 86,700 86,700 36,300 58,700 2,000 2,800 60,700

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Exhibit C Construction Drawings





AMERICAN TOWER®

ATC SITE NAME: PARSONAGE HILL AKA

WALLIN

ATC SITE NUMBER: 302538

T-MOBILE SITE ID: CT11054A

SITE ADDRESS: 922 NORTHROP ROAD

WALLINGFORD, CT 06492



LOCATION MAP

T-MOBILE L600 ANTENNA AMENDMENT 67D02C CONFIGURATION

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION		SHEET INDEX			
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS:	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	922 NORTHROP ROAD WALLINGFORD. CT 06492	REMOVE (3) RRUs AND (2) 1-5/8" COAX CABLES	G-001	TITLE SHEET	0	07/24/19	LR
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	COUNTY: NEW HAVEN	INSTALL (3) NEW PANELS, (3) RRUs, AND (2) 1-5/8" HYBRID CABLES	G-002	GENERAL NOTES	TES 0 07/24/19		LR
INTERNATIONAL BUILDING CODE (IBC)	1A CERTIFICATE SUMMARY:	EXISTING (6) PANELS, (3) TTAS, (1) 1-1/4" HYBRID CABLE AND (10) 1-5/8" COAX CABLES TO REMAIN	C-101	DETAILED SITE PLAN & TOWER ELEVATION	0	07/24/19	LR
2. NATIONAL ELECTRIC CODE (NEC)	LATITUDE: 41° 29' 21.65" N	1-5/8 COAX CABLES TO REMAIN	C-501	ANTENNA INFORMATION & SCHEDULE	0	07/24/19	LR
3. LOCAL BUILDING CODE	LONGITUDE: 72° 46' 05.7" W GROUND ELEVATION: 383' AMSL	PROJECT NOTES	C-502	GROUNDING DETAILS	0	07/24/19	LR
4. CITY/COUNTY ORDINANCES	TOWER HEIGHT: 152' AGL	THE FACILITY IS UNMANNED.	R-601	SUPPLEMENTAL			
	HIGHEST APPURTENANCE: 160' AGL		R-602	SUPPLEMENTAL			
		A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.	R-603	SUPPLEMENTAL			!
		THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.	R-604	SUPPLEMENTAL			
	PROJECT TEAM	NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.					
	TOWER OWNER:	5. HANDICAP ACCESS IS NOT REQUIRED.					
UTILITY COMPANIES	AMERICAN TOWER 10 PRESIDENTIAL WAY						-
POWER COMPANY: WALLING ELECTRIC 24HR EMEFRGENCIES	WOBURN, MA 01801						+
PHONE: (203) 2655-5055	<u>ENGINEER:</u> ATC TOWER SERVICES, LLC	PROJECT LOCATION DIRECTIONS					+
TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	3500 REGENCY PKWY STE 100 CARY, NC 27518						
811	PROPERTY OWNER: SPECTRA SITE COMMUNICATION INC 2002 ANNAPOLIS MALL RD ANNAPOLIS, MD 21401	FROM HARTFORD I-91 SOUTH: GO TO EXIT 15, RIGHT AT OFF RAMP AND THEN RIGHT AGAIN ONTO NORTHROP ROAD - FOLLOW TO SITE					
Know what's below. Call before you dig.							



A.T. ENGINEERING SERVICE, PLLC

3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. ITILE TO THESE DOCUMENTS SHALL REWAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER. THESE DRAWINGS AND/OR THE ACCOMPANYING

REV	. DESCRIPTION	BY	DATE
◬	FOR CONSTRUCTION	_LR_	07/24/19
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ATC SITE NUMBER:

302538

ATC SITE NAME:

PARSONAGE HILL AKA WALLIN

SITE ADDRESS: 922 NORTHROP ROAD WALLINGFORD, CT 06492



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DRAWN BY:	LR
APPROVED BY:	PPB
DATE DRAWN:	07/24/19
ATC JOB NO:	12927186

TITLE SHEET

REVISION:

G-001

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GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC MASTER SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- 4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
 OTHERWISE NOTED
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS FTC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- 10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE WIRELESS REP PRIOR TO PROCEEDING.
- 11. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE WIRELESS CONSTRUCTION MANAGER.
- 13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- 14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE WIRELESS REP IMMEDIATELY.
- 15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- 17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- 18. CONTRACTOR SHALL FURNISH T-MOBILE WIRELESS WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- 19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE WIRELESS REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
- 20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- 21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- 22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 25. CONTRACTOR SHALL NOTIFY T-MOBILE WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS. ETC.

- 27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- 28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE WIRELESS REP. ANY WORK FOUND BY THE T-MOBILE WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- 3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- 4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



A.T. ENGINEERING SERVICE, PLLC 3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518

PHONE: (919) 468-0112

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REV.	DESCRIPTION	BY	DATE
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ATC SITE NUMBER:

302538

ATC SITE NAME:

PARSONAGE HILL AKA WALLIN

SITE ADDRESS: 922 NORTHROP ROAD WALLINGFORD, CT 06492

SEAL:



uthorized by "EOR" ul 24 2019 W: 13 AM Cosig

DRAWN BY:	LR
APPROVED BY:	PPB
DATE DRAWN:	07/24/19
ATC JOB NO:	12927186

GENERAL NOTES

SHEET NUMBER:

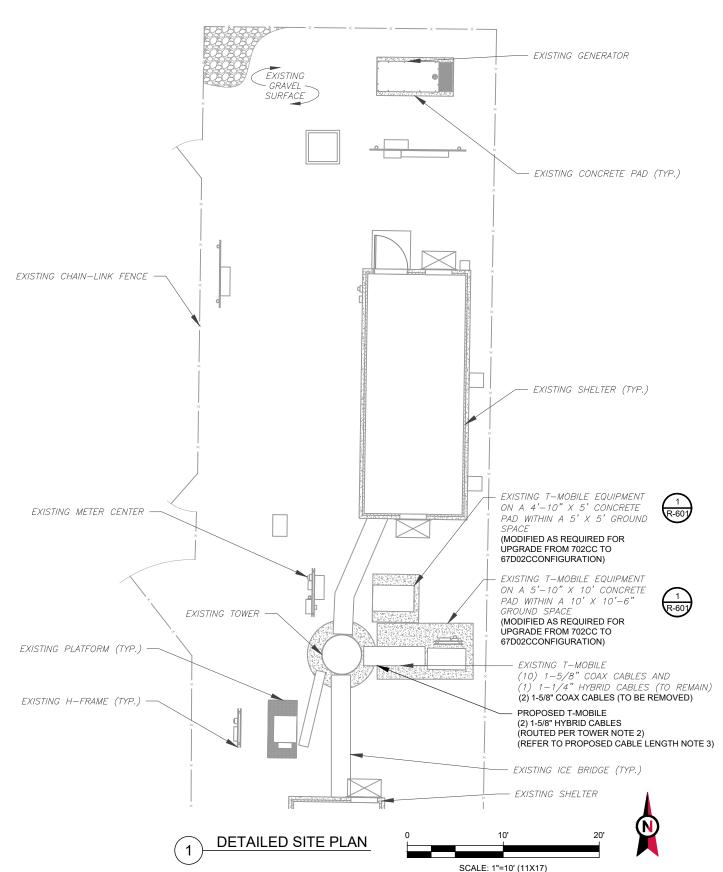
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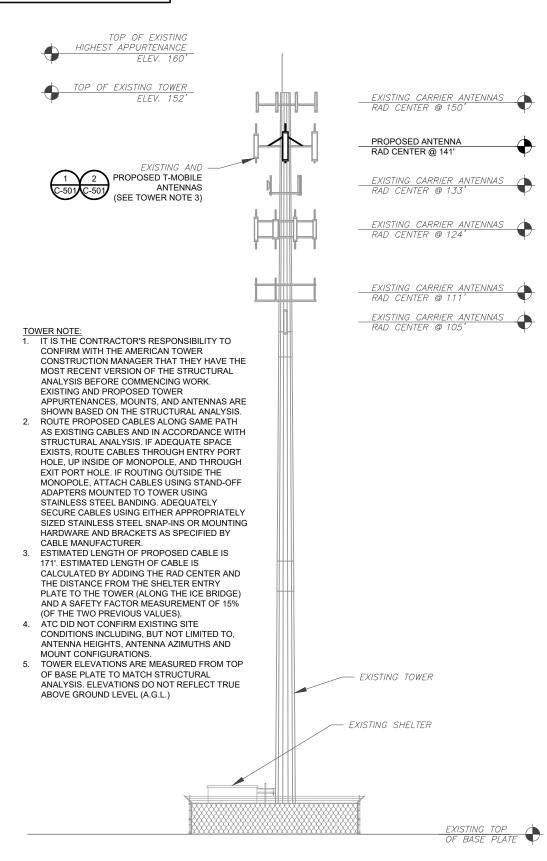
SITE PLAN NOTES:

- 1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL
 PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW
 PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- 3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.



1"=5' (22X34)

PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING, DATED 07/08/19, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



TOWER ELEVATION

SCALE: NOT TO SCALE



AMERICAN TOWER®A.T. ENGINEERING SERVICE, PLLC

3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518 PHONE: (919) 468-0112 COA: PEC.0001553

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ATC SITE NUMBER:

302538

ATC SITE NAME:

PARSONAGE HILL AKA WALLIN

SITE ADDRESS: 922 NORTHROP ROAD WALLINGFORD. CT 06492

CENSE OF CONNE



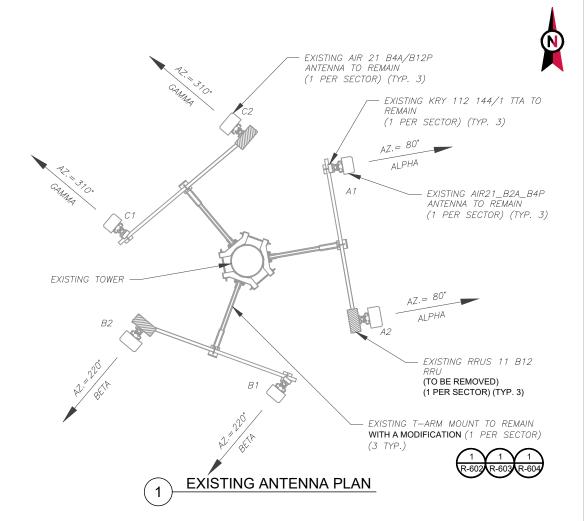
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APPROVED BY:	PPB
DATE DRAWN:	07/24/19
ATC JOB NO:	12927186

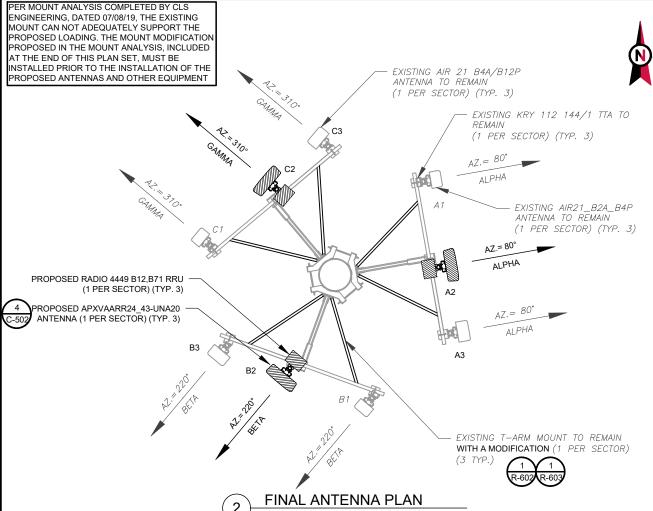
DETAILED SITE PLAN & TOWER ELEVATION

SHEET NUMBER:

C-101

REVISION





EXISTING ANTENNA / EQUIPMENT SCHEDULE

SECTOR	ANT.	MANUFACTURER (MODEL #)	RAD CENTER	AZIMUTH (TN)	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	A1	AIR21_B2A_B4P	141'-0"	80°	0°	2°	KRY 112 144/1
ALPHA	A2	AIR 21 B4A/B12P	141'-0"	80°	0°	7°	RRUS11 B12
BETA	B1	AIR21_B2A_B4P	141'-0"	220°	0°	2°	KRY 112 144/1
BETA	B2	AIR 21 B4A B12P	141'-0"	220°	0°	7°	RRUS11 B12
GAMMA	C1	AIR21_B2A_B4P	141'-0"	310°	0°	2°	KRY 112 144/1
GAMMA	C2	AIR 21 B4A B12P	141'-0"	310°	0°	7°	RRUS11 B12

NOTES

- I. BASED ON APPROVED ATC
 APPLICATION 12927186, DATED
 04/02/19. CONFIRM WITH T-MOBILE
 REP FOR APPLICABLE
 UPDATES/REVISIONS AND MOST
 RECENT RFDS FOR NSN
 CONFIGURATION (CONFIG). GC TO
 CAP ALL UNUSED PORTS.
- 2. ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
- 3. ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
- ANALYSIS ON FILE WITH ATC'S CM.

 4. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

ANTENNA SCHEDULE

5. POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

FINAL ANTENNA / EQUIPMENT SCHEDULE

SECTOR	ANT.	MANUFACTURER (MODEL #)	RAD CENTER	AZIMUTH (TN)	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	A1	AIR21_B2A_B4P	141'-0"	80°	0°	2°	KRY 112 144/1
ALPHA	A2	APXVAARR24_43-U-NA20	141'-0"	80°	0°	-	RADIO 4449 B12-B71
ALPHA	A3	AIR 21 B4A/B12P	141'-0"	80°	0°	7°	-
BETA	B1	AIR21_B2A_B4P	141'-0"	220°	0°	2*	KRY 112 144/1
BETA	B2	APXVAARR24_43-U-NA20	141'-0"	220°	0°	-	RADIO 4449 B12-B71
BETA	В3	AIR 21 B4A/B12P	141'-0"	220°	0°	7°	-
GAMMA	C1	AIR21_B2A_B4P	141'-0"	310°	0°	2°	KRY 112 144/1
GAMMA	C2	APXVAARR24_43-U-NA20	141'-0"	310°	0°	-	RADIO 4449 B12-B71
GAMMA	C3	AIR 21 B4A/B12P	141'-0"	310°	0°	7°	-

CURRENT FIBER DISTRIBUTION/OVP BOX		CURRENT CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
_	_	(10) 1-5/8"	(1) 1-1/4"	RMN
_	_	(2) 1-5/8"	_	RMV

STATUS ABBREVIATIONS
RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
DSC: TO BE DISCONNECTED & REMAIN
ADD: TO BE ADDED

3

MODE

PROPOSED FIBER DISTRIBUTION/OVP BOX		PROPOSED CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	(2) 1-5/8"	ADD
-	-	(10) 1-5/8"	(1) 1-1/4"	RMN



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ATC SITE NUMBER:

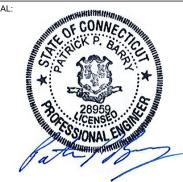
302538

ATC SITE NAME:

PARSONAGE HILL AKA WALLIN

SITE ADDRESS: 922 NORTHROP ROAD WALLINGFORD, CT 06492

SEAL



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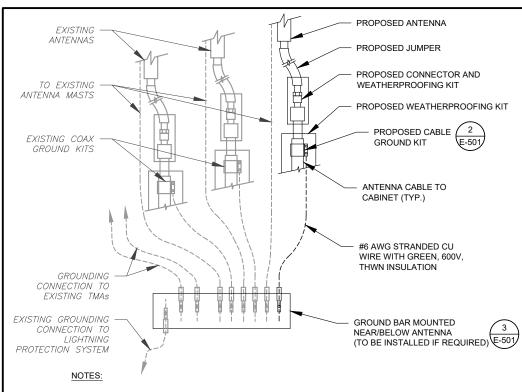
DRAWN BY:	LR
APPROVED BY:	PPB
DATE DRAWN:	07/24/19
ATC JOB NO:	12927186

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
	l _

C-501

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1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.

2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

TYPICAL ANTENNA GROUNDING DIAGRAM

TO EQUIPMENT

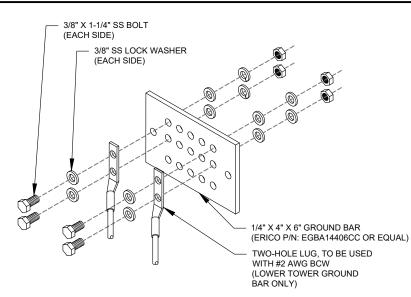
GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

TO ANTENNA

 \bigcirc

2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS



GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

CABLE GROUND KIT CONNECTION DETAIL

ANTENNA CABLE 2 1/2"Ø MAX

GROUNDING KIT PER CABLE

TO GROUND BAR

(ANDREW OR APPROVED EQUAL)

MANUFACTURER'S RECOMMENDATIONS

#6 AWG STRANDED COPPER GROUND

WIRE (GROUNDED TO GROUND BAR)

TOWER GROUND BAR DETAIL SCALE: NOT TO SCALE

PROPOSED 2-7/8" O.D. X 96" LONG TO ACCOMMODATE PROPOSED MOUNTING BRACKET PROPOSED RRU MOUNT LOCATION (OPTION 3) (MOUNT PER MANUFACTURER'S SPECS) (ENSURE THAT BRACKET DOES NOT CONFLICT WITH EXISTING OR PROPOSED EQUIPMENT) PROPOSED RRU MOUNT LOCATION (OPTION 1) (MOUNT PER MANUFACTURER'S SPECS) (ENSURE THAT BRACKET DOES NOT CONFLICT WITH FXISTING **EXISTING OR PROPOSED EQUIPMENT)** T-ARM SECTOR FRAME PROPOSED ANTENNA PROPOSED RRU MOUNT LOCATION (OPTION 2) (MOUNT PER MANUFACTURER'S SPECS) (ENSURE THAT BRACKET DOES NOT CONFLICT WITH EXISTING OR PROPOSED EQUIPMENT) PROPOSED ANTENNA MOUNT

PROPOSED ANTENNA & RRU MOUNTING DETAIL - TYPICAL

SCALE: NOT TO SCALE

Authorized_by_"EQR"

DRAWN BY: LR APPROVED BY: PPB DATE DRAWN: 07/24/19 ATC JOB NO: 12927186

SHEET NUMBER:

REVISION

C-502

AMERICAN TOWER® A.T. ENGINEERING SERVICE, PLLC

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CARY, NC 27518

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ATC SITE NUMBER:

302538

ATC SITE NAME:

PARSONAGE HILL AKA WALLIN

SITE ADDRESS: 922 NORTHROP ROAD

WALLINGFORD, CT 06492



GROUNDING DETAILS

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67D02C Outdoor	A&L Template: 67D02C_2xAIR+10P	Power System Template: Custom		C111054A_L600_2.1_draft	
	Section 5 - RAN Equipment				
			Existing RAN Equip		
			Template: 702Cc		
Enclosure		1		2	
Enclosure Type	(RB86102)			RB83106	
Baseband	(DUW30(x 2)) (DUG20)	DU841)			
Hybrid Cable System	Ericsson 9x18 HC8 "Selec	tLength*			
Multiplexer	XMU 1700				
Radio	RUS01 B4 (x 6)				
Proposed RAN Equipment					
			Template: 67D02COu		
Enclosure		1		2	
Enclosure Type	RB8 6102			RB9 3106	
Baseband	DUW30 DUW30 DUG. (02100) (01900) (0190				
Hybrid Cable System	Ericsson 9x18 HC3 *Selec				
Radio	RUS01 B4 (x 6)				
RAN Scope of Work:					
Add (1) BB66301c Remove XMU.	Replace DUS41 with (1) B86630 for L2100, L700, and L600. Add (1) B86630 for future 5G N600. Remove XMU. Add (2) 6X12 HCS.				
Metro at 105 feet. 1 Besting 9X18 H	Metro at 105 feet. T-Mobile at 145 and 139 1 Existing 9X18 HCB Hybrid and 12 Coaxilines. Remove 2 Coaxilal Lines in Total from Site.				

CABINET CONFIGURATION

SCALE: NOT TO SCALE

Section 3 - Proposed Template Images 67D02CJPG MB+LB Octo Passive Antenna L600 L700 0 0 0 0 Radio 4449 B12+B71

ANTENNA CONFIGURATION

SCALE: NOT TO SCALE

Cabinet Radio B4

Only if site has U21

SUPPLEMENTAL

SHEET NUMBER:

R-601

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REVISION:

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

Тор Ground





Mount Analysis of Existing T-Arms for American Tower on behalf of T-Mobile 302538 - Parsonage Hill Aka Wallin

Project #: 12927186 T-Mobile Site ID: CT11054A Program: L600

CLS Engineering PLLC Project #41124-12927186-01-MA-R1 July 8, 2019

MOUNT DESCRIPTION	Existing T-Arms at 140 ft AGL	
ANTENNA ELEVATION	Nominal Rad. Elevation of 141 ft AGL (Eccentricity of ~1 ft)	
SITE DESCRIPTION	50 ft Monopole	
SITE ADDRESS	922 Northrop Road Wallingford CT 06492-1910, New Haven County	
GPS COORDINATES	41.48934722, -72.76825278	
ANALYSIS STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G	
LOADING CRITERIA	125 mph, V _{ult} / 96.8 mph, V _{asd} (3-Second Gust) w/o ice & 50 mph (3-Second Gust) w/ 0.75" Ice	

■ ANALYSIS RESULT: | Pass (Conditional)

MEMBER USAGE	67%	Pass
CONNECTION USAGE	101%	Acceptable
COLLAR USAGE	75%	Pass

Usages up to 105% are considered acceptable.

Modifications are proposed to bring mounts into compliance; see conclusion for details. New mount pipes are required for final loading configuration; see conclusion for details.

Prepared by: Sean Rock, E.I.

Reviewed and Approved by: Tyler M. Barker, P.E.

Digitally signed by Tyler Barker DN: c=US, Corporation, ou=A01427E0000 016A4525ADF800 001D17, cn=Tyler Barker Date: 2019.07.09 13:46:47 -04'00'

CLS MGINEERING • 319 Chapanoke Road, Suite 118, Raleigh, NC 27603 • Engineering@clsengineeringpllc.com

Page 1

July 8, 2019 Mount Analysis for American Tower on behalf of T-Mobile CLS Engineering PLLC Project #41124-12927186-01-MA-R1 302538 - Parsonage Hill Aka Wallin

■ CONCLUSION AND RECOMMENDATIONS

According to our structural analysis, the mounts have been found to CONDITIONALLY PASS. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

- Install (1) Site Pro 1 SP219-96H, 2-7/8" Pipe Mount Kit at each sector (3 total) as shown in following sketch.
- Install (1) Site Pro 1 PRK-SFS-L Support Rail Vertical Reinforcement Kit at existing face horizontal member as shown in the following sketches. Collar to be installed flush with existing monopole at a height of ±3.5 ft. above the centerline of existing platform mount collar. Field-cut proposed members as required. Maintain minimum bolt edge distance.

See following sketches and Site Pro 1 assembly drawings for additional details.

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Page 3

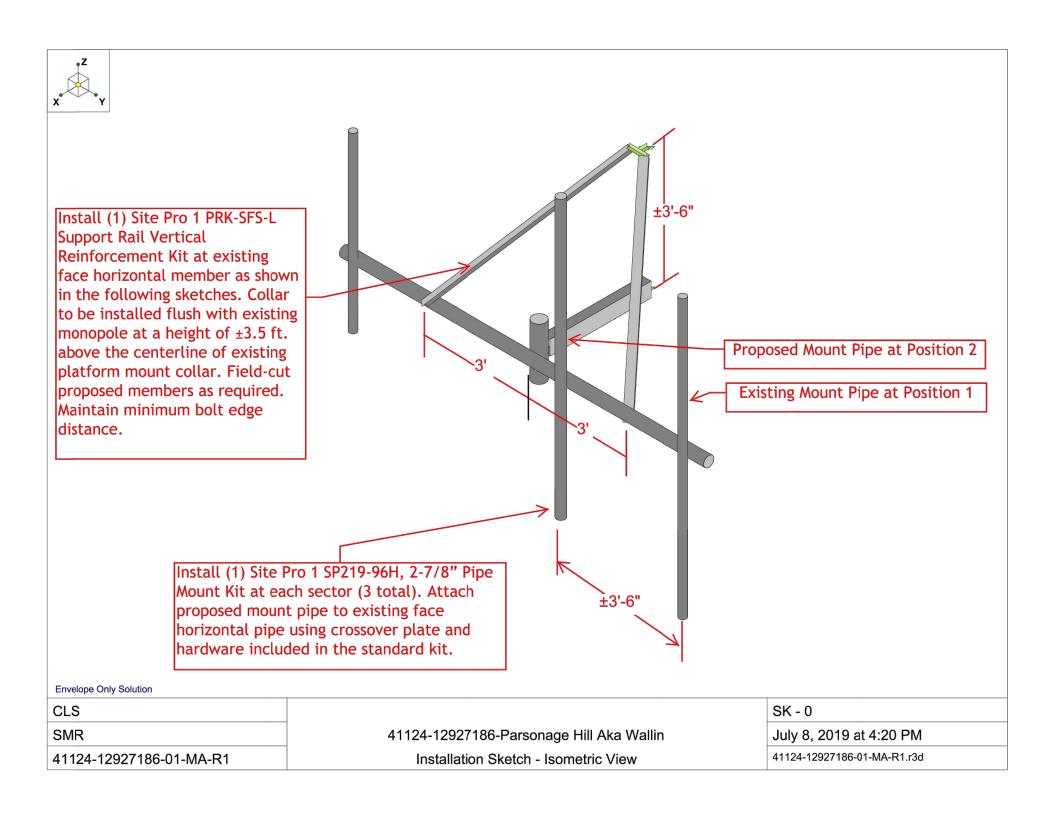
MOUNT ANALISIS CONCLUSION SCALE: NOT TO SCALE SUPPLEMENTAL

REVISION 0

R-602

WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER



1 MOUNT MODIFICATIONS
SCALE: NOT TO SCALE

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERVIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

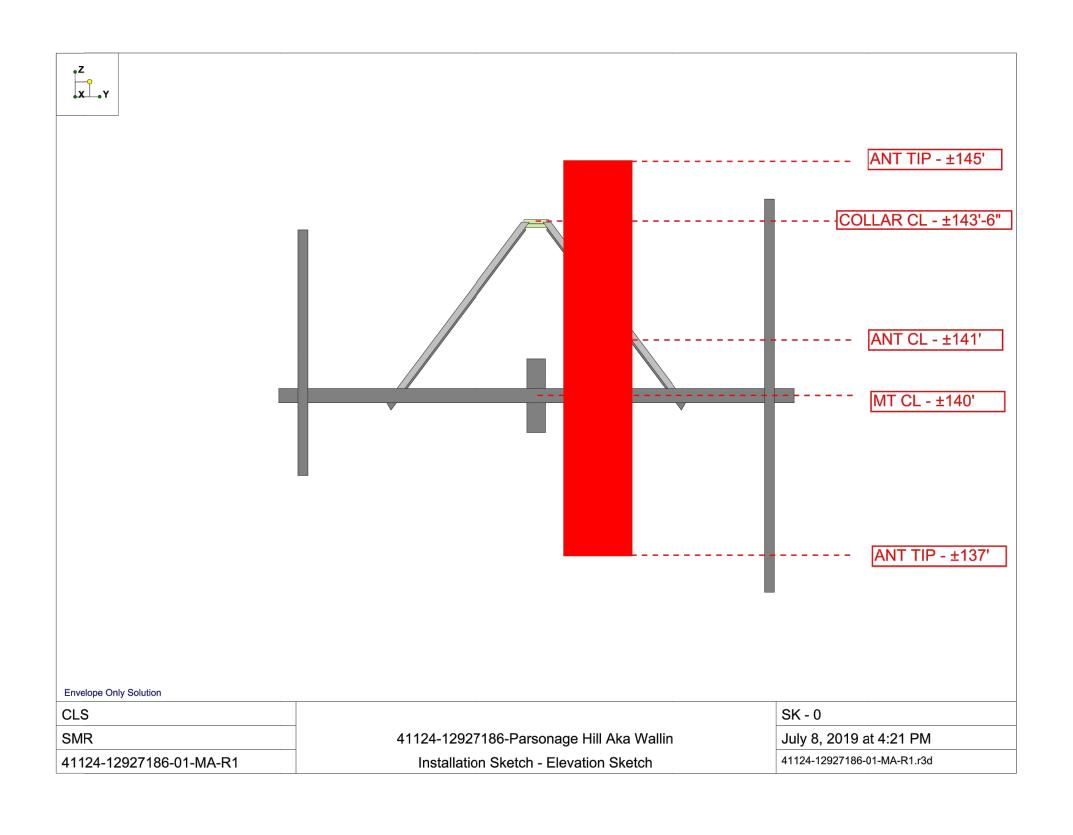
SUPPLEMENTAL

CHEET NI IMPED:

REVISION:

R-603

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1 MOUNT MODIFICATIONS
SCALE: NOT TO SCALE

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

R-604

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Exhibit E Mount Analysis





Mount Analysis of Existing T-Arms for American Tower on behalf of T-Mobile 302538 - Parsonage Hill Aka Wallin

Project #: 12927186 T-Mobile Site ID: CT11054A Program: L600

CLS Engineering PLLC Project #41124-12927186-01-MA-R1 July 8, 2019

MOUNT DESCRIPTION	Existing T-Arms at 140 ft AGL	
ANTENNA ELEVATION	Nominal Rad. Elevation of 141 ft AGL (Eccentricity of ~1 ft)	
SITE DESCRIPTION	150 ft Monopole	
SITE ADDRESS	922 Northrop Road Wallingford CT 06492-1910, New Haven County	
GPS COORDINATES	41.48934722, -72.76825278	
ANALYSIS STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G	
LOADING CRITERIA	125 mph, V _{ult} / 96.8 mph, V _{asd} (3-Second Gust) w/o ice & 50 mph (3-Second Gust) w/ 0.75" Ice	

Pass (Conditional) ■ ANALYSIS RESULT:

MEMBER USAGE	67%	Pass
CONNECTION USAGE	101%	Acceptable
COLLAR USAGE	75%	Pass

Usages up to 105% are considered acceptable.

Modifications are proposed to bring mounts into compliance; see conclusion for details. New mount pipes are required for final loading configuration; see conclusion for details.

Prepared by: Sean Rock, E.I.

Reviewed and Approved by: Tyler M. Barker, P.E.

SIONAL ENG Tyler M. Barker
CLS Engineering, PLLC
Director of Engineering
PE # 32402 Exp. 1/31/2020
COA # PEC.001833 Exp. 8/14/2019

Digitally signed by Tyler Barker DN: c=US. o=Telamon Corporation. ou=A01427E0000 016A4525ADF800 001D17, cn=Tyler Date: 2019.07.09 13:46:47 -04'00'

■ INTRODUCTION

The proposed equipment is to be mounted to the existing T-Arms. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

■ STRUCTURAL DOCUMENTS PROVIDED

STRUCTURAL DATA	Site photos, dated September 27, 2018 Assembly Drawings by Site Pro 1, Part No. PRK-SFS-L, dated October 25, 2017 Assembly Drawings by Site Pro 1, Part No. SP219-xxxH, dated February 2, 2016
PREVIOUS ANALYSES	Structural Analysis by ATC, Engineering #OAA722111_C3_01, dated May 17, 2018
LOADING DATA	ATC Application, Project #12927186, dated April 2, 2019

■ ANALYSIS CRITERIA

STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G	
BASIC WIND SPEED 125 mph, V _{ult} / 96.8 mph, V _{asd} (3-Second Gust)		
BASIC WIND SPEED W/ ICE	50 mph (3-Second Gust) w/ 0.75" Radial Ice (Escalating)	
EXPOSURE CATEGORY	С	
MAX. TOPOGRAPHIC FACTOR, K_{zt}	1.00	
RISK CATEGORY	II	
MAINTENANCE LIVE LOAD	L _M : 500 lb	

■ FINAL EQUIPMENT

ELEVAT	ELEVATION (ft)		ANTENNAS		
MOUNT	RAD.	# NAME			
	3		Ericsson AIR 21 B4A/B12P-B5F 6FT		
140.0 141.0		3	Ericsson AIR 21, 1.3 M, B2A B4P		
		3	Ericsson RADIO 4449 B12/B71		
		3	Ericsson KRY 112 144/1		
		3	RFS Celwave APXVAARR24_43-U-NA20		

■ RESULTS SUMMARY

COMPONENT	PEAK USAGE	RESULT
Connections	101%	Acceptable
Collar Reactions	75%	Pass
Face Horizontals	67%	Pass
Mount Pipes	57%	Pass
Stand-Off Horizontals	54%	Pass
Bracing Members	11%	Pass

Usages up to 105% are considered acceptable.

■ CONCLUSION AND RECOMMENDATIONS

According to our structural analysis, the mounts have been found to CONDITIONALLY PASS. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

- Install (1) Site Pro 1 SP219-96H, 2-7/8" Pipe Mount Kit at each sector (3 total) as shown in following sketch.
- Install (1) Site Pro 1 PRK-SFS-L Support Rail Vertical Reinforcement Kit at existing face horizontal member as shown in the following sketches. Collar to be installed flush with existing monopole at a height of ±3.5 ft. above the centerline of existing platform mount collar. Field-cut proposed members as required. Maintain minimum bolt edge distance.

See following sketches and Site Pro 1 assembly drawings for additional details.

ASSUMPTIONS AND CONDITIONS

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, CLS Engineering PLLC should be notified immediately to revise results.

This analysis assumes the following:

- The tower or other superstructure and mounts (if existing) were properly constructed as per the original design 1. and have been properly maintained in accordance with applicable code standards.
- 2. Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
- 3. In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
- All prior structural modifications, if any, are assumed to be correctly installed and fully effective. 4.
- The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All 5. appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
- Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from CLS Engineering PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. CLS Engineering PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by CLS Engineering PLLC verifies the adequacy of the primary members of the structure. CLS Engineering PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.





Proposed Mount Pipe at Position 2

±3'-6"

Install (1) Site Pro 1 SP219-96H, 2-7/8" Pipe Mount Kit at each sector (3 total). Attach proposed mount pipe to existing face horizontal pipe using crossover plate and hardware included in the standard kit.

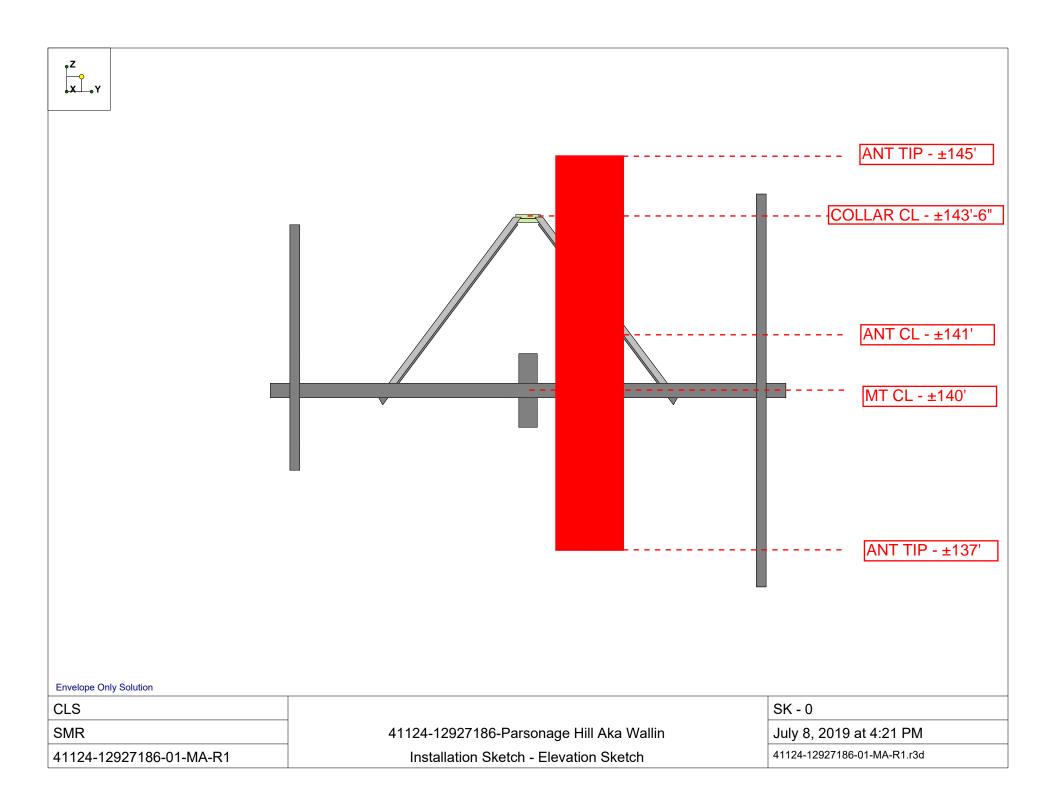
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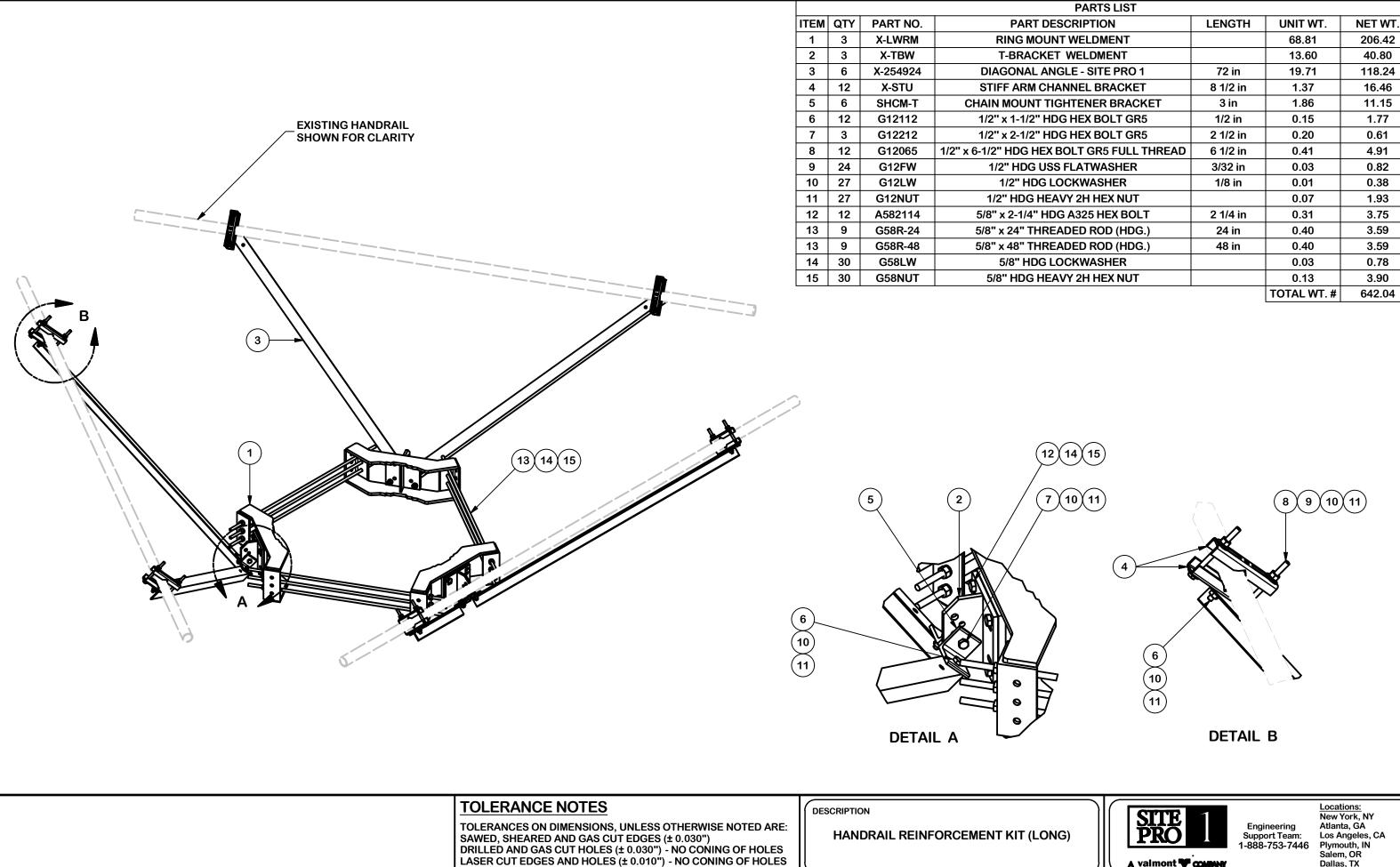
CLS SMR 41124-12927186-01-MA-R1

41124-12927186-Parsonage Hill Aka Wallin Installation Sketch - Isometric View

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Existing Mount Pipe at Position 1





A CHANGED MAX. DIA. FOR HANDRAIL CONNECTION SP1 BC 10/25/2017 REV **DESCRIPTION OF REVISIONS** CPD BY DATE **REVISION HISTORY**

BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE:
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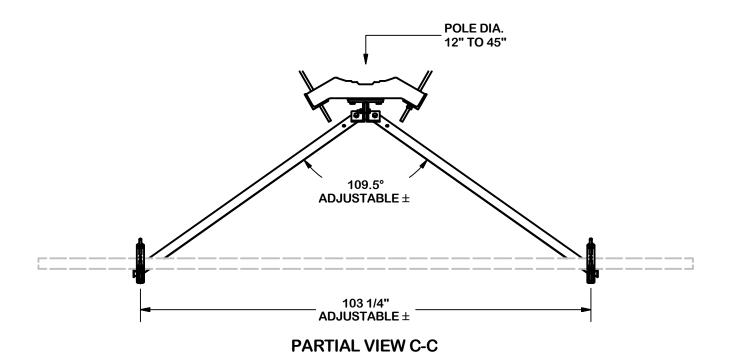


Salem, OR Dallas, TX

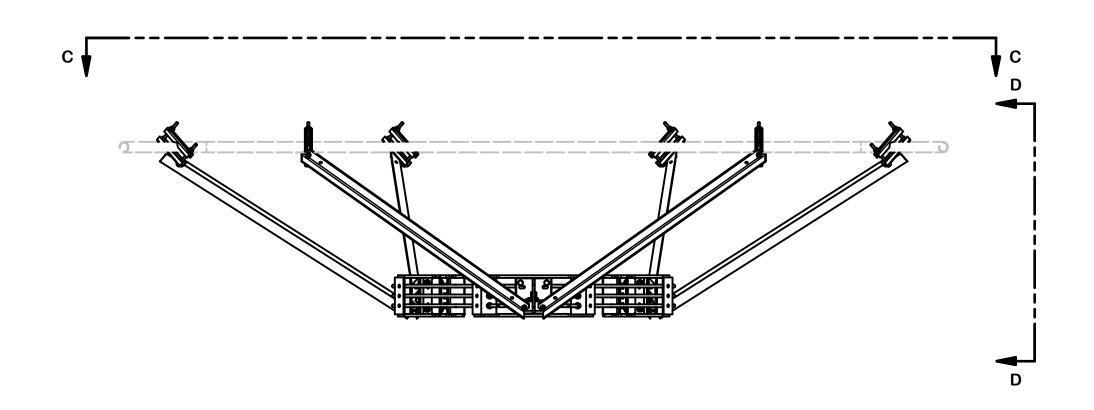
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SP1		21	CSL3 2/23/2017 3RD PARTY		RTY				
	CLASS	SUB	DRAWING	DRAWING USAGE		3Y			
	81	02	8	SHOP	BMC	9/8/2017			

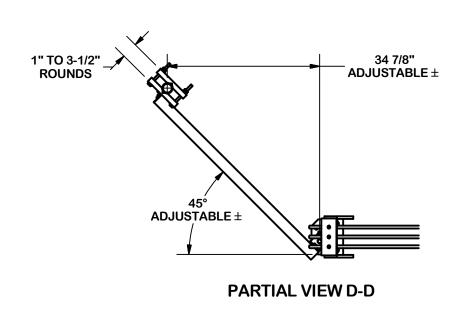
PRK-SFS-L

PRK-SFS-L



VERTICAL POSITION





TOLERANCE NOTES

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

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

SP1 BC 10/25/2017

DATE

CPD BY

A CHANGED MAX. DIA. FOR HANDRAIL CONNECTION

DESCRIPTION OF REVISIONS

REVISION HISTORY

REV

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DESCRIPTION

CPD NO.

81

SP1

CLASS SUB

02

HANDRAIL REINFORCEMENT KIT (LONG)

DRAWN BY

DRAWING USAGE

CSL3 2/23/2017

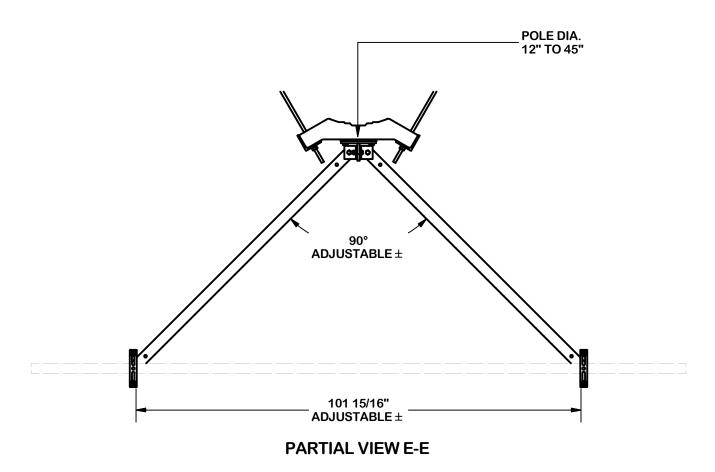
SHOP



Engineering Support Team: 1-888-753-7446

Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

	C. Francisco V California
ENG. APPROVAL	PART NO.
3RD PARTY	PRK-SFS-L
CHECKED BY	DWG. NO.
BMC 9/8/2017	PRK-SFS-L



HORIZONTAL POSITION



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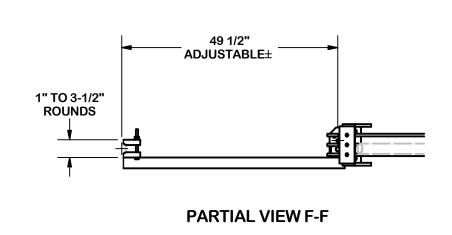
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A CHANGED MAX. DIA. FOR HANDRAIL CONNECTION

DESCRIPTION OF REVISIONS

REVISION HISTORY

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TOLERANCE NOTES

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

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

SP1 BC 10/25/2017 PROPRIETARY NOTE:
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HANDRAIL REINFORCEMENT KIT (LONG)



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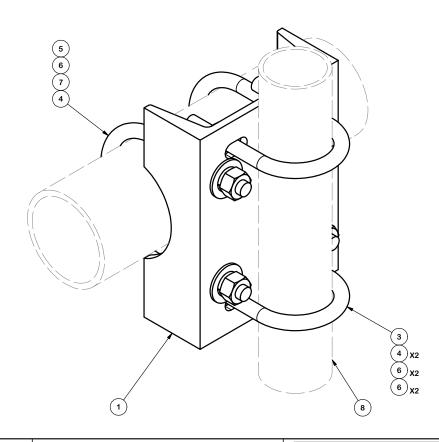
Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

CPD NO. DRAWN BY		D. DRAWN BY ENG. APPROVAL		PART NO.			
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CLASS	SUB	DRAWING	USAGE	CHECKED B	Υ	DWG. NO.	
81	02	S	HOP	BMC	9/8/2017		PRK-SFS-L

OF PAGE

2-7/8" O.D. VERTICAL MOUNTING PIPES							
ASSEMBLY "A"	PART NO. "B"	PART DESCRIPTION	LENGTH "C"	UNIT WT. "D"	NET WT. "E"	TOTAL WEIGHT	
SP219-96H	P3096	2-7/8" DIA X 63" SCH 40 GALVANIZED PIPE	96"	49.24	49.24	62.45	
SP219-120H	P30126	2-7/8" DIA X 63" SCH 40 GALVANIZED PIPE	126"	76.94	76.94	89.15	

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	8.61
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	0.51
3	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	1.48
4	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" GALV U-BOLT		0.83	1.66
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
6	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
7	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
8	1	"B"	2-7/8" O.D. VERTICAL MOUNTING PIPES	"C"	"D"	"E"
			•			



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (\$ 0.030") ORILLED AND GAS CUT HOLES (\$ 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (\$ 0.010") - NO CONING OF HOLES

BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION

2-7/8" PIPE MOUNT KITS



Engineering Atlanta, GA
Support Team: Los Angeles, CA
1-888-753-7446
Salem, OR
Dallas, TX

	_					
CPD NO. DRAWN BY		DRAWN BY	ENG. APPROVAL	PART NO.		
			CEK 1/26/2016		SP219-xxxH	o ≱
	CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	TH P
	81	01	CUSTOMER	BMC 2/2/2016	SP219-xxxH	

Wind & Ice Loadir	ng		
Nominal Mount Elevation (AGL), z _{mount}	140 ft	Ka	0.90
Nominal Rad Elevation (AGL), z _{rad}	141 ft	K _d	0.95
Elevation AMSL (ft)	-	K _e	-
TIA Standard	G	K _z	1.36
Basic Wind Speed, V _{ult} (bare)	125 mph	K _{zt}	1.00
Basic Wind Speed, V (ice)	50 mph	K _s	-
Design Ice Thickness, t _i	3/4 in	t _{iz}	1.73 in
Exposure Category	С	G _h	1.00
Risk Category	II	q _z (bare)	51.6 psf
Seismic Response Coeff., C _s	-	q _z (ice)	8.3 psf

Live Loading	
At Mount Pipes, L _M	500 lb
	M1
	M2
Joint Labels Considered	МЗ

Mer	nber Distributed L	oading.	5	
Section Set Label	Shape Label	F _A Bare	(lb/ft)	Ice W
Face Horizontal Pipe	PIPE_3.0	16.26	5.18	11.0
MOD Mount Pipe	PIPE_2.5	13.36	4.71	9.76
Mount Pipe	PIPE_2.0	11.03	4.34	8.70
Standoff Tube	HSS5X3X6	38.72	3.04	14.4
Vertical Pipe	PIPE_4.0	20.91	5.92	13.2
MOD PRK	L2.5x2.5x3	19.36	2.81	10.1

										Appui	tenan	ces												
Appurtenance	Status		Rad Elev. Override		Area Factor		Qty. Total	0° Joints		Height	Width	Depth	Weight (Bare)	Shape	Weight of Ice	EPA _A (B	are) (ft²)	EPA _A (Ice) (ft²)		F _A (Bare) (lb)		F _A (Ice) (Ib)		
Model	Otatus	(°, °)	(ft)	Depth	Front	Side	0°	Qty. Override	1	2	(in)	(in)	(in)	(lb)	Onape	(lb)	N	Т	N	T	N	Т	N	Т
AIR 21 B4A/B12P-B5F 6FT							1	3	A1	A2	78	14.8	8.6	110	Flat	260.39	10.61	6.84	13.30	9.48	493.56	318.42	99.04	70.60
APXVAARR24_43-U-NA20							1	3	АЗ	A4	0	0	0	153.3	Generic	390.56	14.67	5.32	17.31	7.64	682.61	247.55	128.85	56.91
AIR 21, 1.3 M, B2A B4P							1	3	A5	A6	56	12	8	83	Flat	145.36	6.05	4.36	8.05	6.25	281.48	202.67	59.91	46.52
KRY 112 144/1					0.25		1	3	T1		7	6	3	11	Flat	11.02	0.09	0.18	0.21	0.56	4.07	8.14	1.54	4.20
RADIO 4449 B12/B71					0.5		1	3	R1		15	13.2	10.4	75	Flat	59.68	0.83	1.30	1.28	2.13	38.39	60.49	9.55	15.89





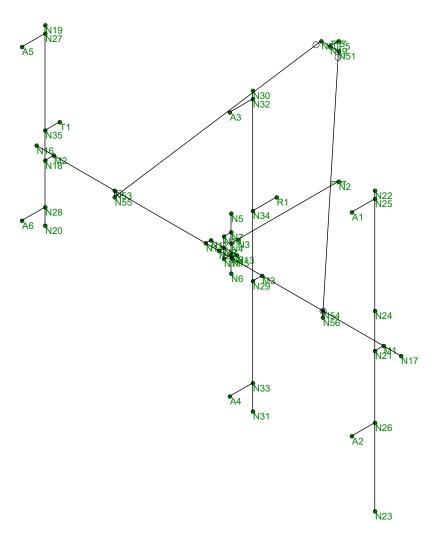
Envelope Only Solution

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41124-12927186-Parsonage Hill Aka Wallin Rendered

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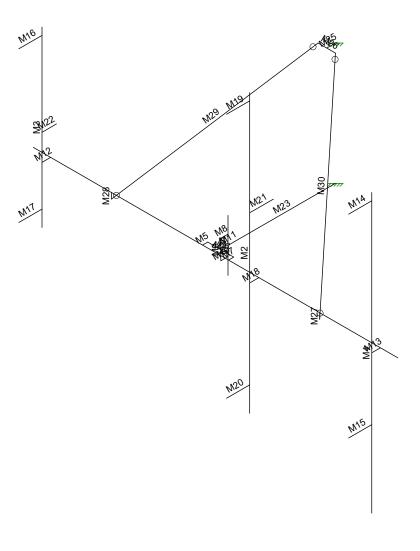
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41124-12927186-Parsonage Hill Aka Wallin Joint Labels

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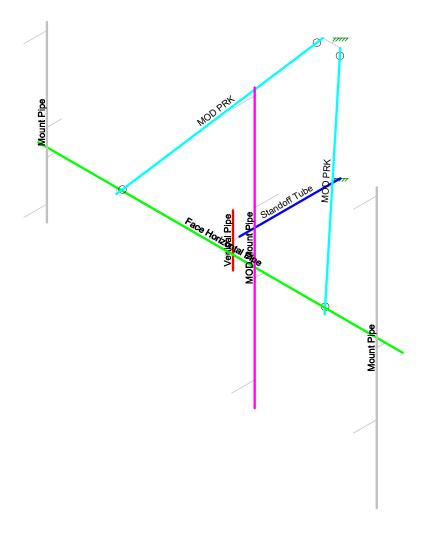
41124-12927186-Parsonage Hill Aka Wallin Member Labels

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Section Sets

Standoff Tube
Face Horizontal Pipe
Vertical Pipe
Mount Pipe
MOD Mount Pipe
MOD PRK
RIGID

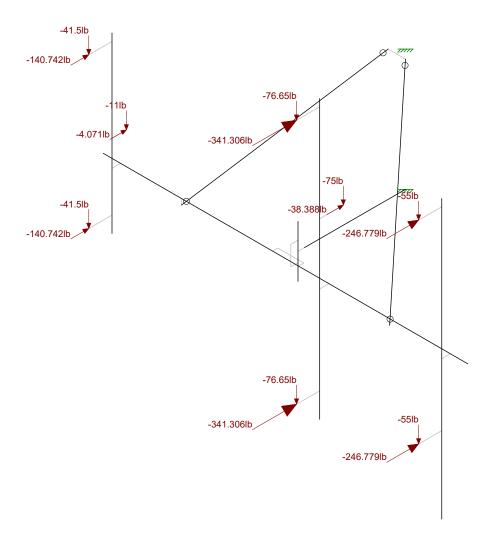


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41124-12927186-Parsonage Hill Aka Wallin Section Sets SK - 4 July 8, 2019 at 4:18 PM 41124-12927186-01-MA-R1.r3d





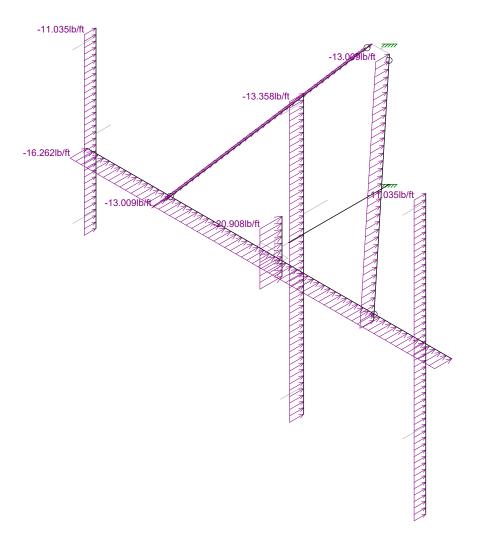
Loads: LC 1, DISPLAY (1.0D + 1.0W_0°) Envelope Only Solution

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41124-12927186-Parsonage Hill Aka Wallin Joint Loads - Dead and Normal Wind

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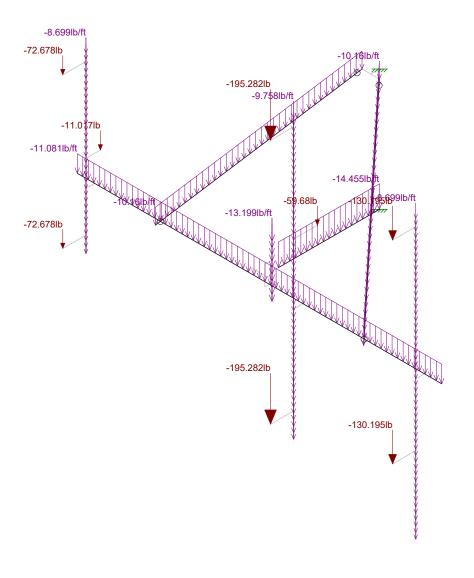
Loads: BLC 4, Structure Wind 0° Envelope Only Solution

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41124-12927186-Parsonage Hill Aka Wallin Distributed Load - Normal Wind

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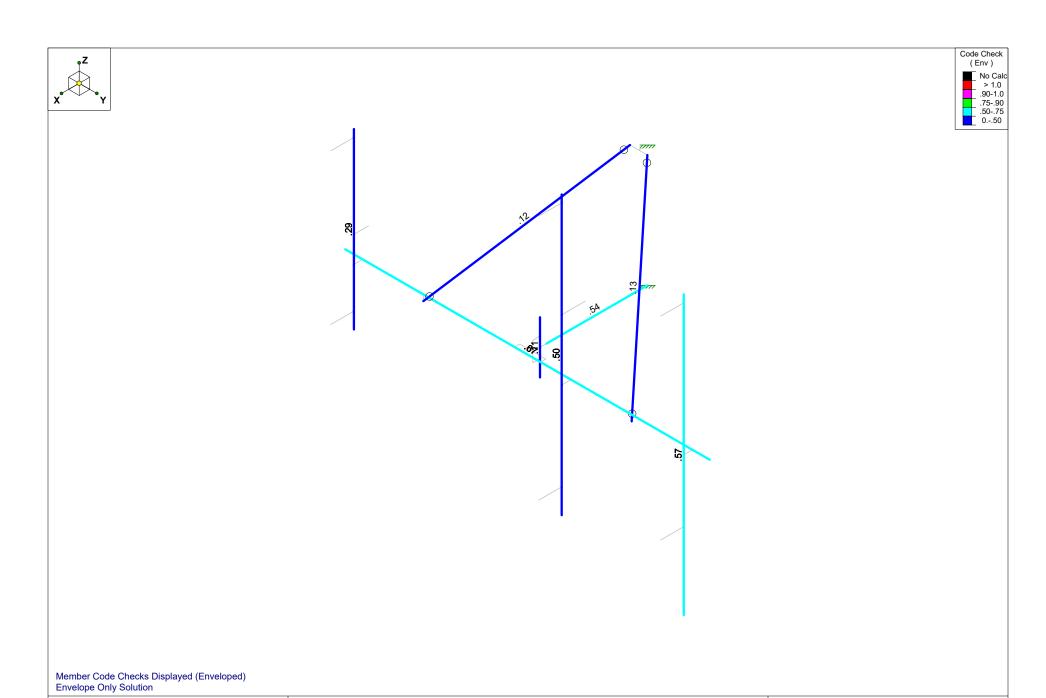


Loads: BLC 2, Ice Dead Envelope Only Solution

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41124-12927186-Parsonage Hill Aka Wallin Ice Dead Loads

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CLS SMR 41124-12927186-01-MA-R1

41124-12927186-Parsonage Hill Aka Wallin Envelope Member Unity Check Results - Bending

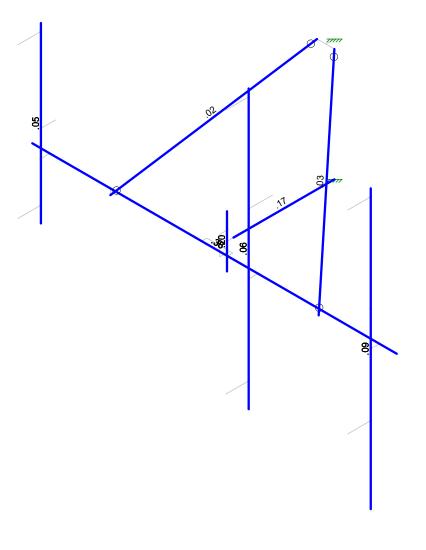
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Member Shear Checks Displayed (Enveloped) Envelope Only Solution

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41124-12927186-Parsonage Hill Aka Wallin Envelope Member Check Results - Shear

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Ô[{]æ}^ KÔŠÙ Ö^•ã}^\ KÙTÜ R[àÁÞ^{à^\ KIFFGIËFGJGÏFÌÎËEFËTOËÜF T[å^|ÁÞæ{^ KIFFGIËFGJGÏFÌÎËØæ•[]æ*^ÁPā|ÁŒæÁVæ∮§

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BOLTED CONNECTION ROTATIONAL SLIP RESISTANCE

v. 2017.11.20

DESIGN LOADS	
Factored Moment, M _u (lb-ft)	3078

BOLT PROPERTIES	
Bolt Type	U-Bolt
# of U-Bolts	2
Hole Type	Standard
Bolt Grade	A36
Bolt Diameter, d (in)	0.5
Leg Width, W _{leg} (in)	4.5
Bolt Torque Override, T (lb-ft)	50
Bolt Pretension Stress Override (ksi)	
Bolt Ultimate Strength, F _u (ksi)	58
Specified Torque, T (lb-ft)	50.00
Clamping Force per Bolt, P _u (lb)	6000.00
Bolt Pretension Stress (ksi)	30.56
Tensile Strength per Bolt, φP _n (Ib)	6405.90
Slip Resistance per Bolt, фМ _п (lb-ft)	762.75
Total Slip Resistance, φM _n (lb-ft)	3051.00
Connection Slip Usage, M _u / фМ _n	1.01

FACTORS		
Nut Factor, K	0.20	Rule-of-thumb estimate
Φ(bolt tension)	0.75	AISC 15th, J3.6
$\Phi_{ ext{(SLIP-CRITICAL)}}$	1.00	AISC 15th, J3.8
Mean Slip Coefficient, μ	0.30	AISC 15th, J3.8
Installed Pretension Ratio, D _u	1.13	AISC 15th, J3.8

Using Torque Override

Exhibit F Power Density/RF Emissions Report



RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTI 1054A

Wallingford/I-91/X15/G 992 Northrop Road Wallingford, Connecticut 06492

June 5, 2019

EBI Project Number: 6219001983

Site Compliance Summary					
Compliance Status:	COMPLIANT				
Site total MPE% of FCC general population allowable limit:	9.05%				



June 5, 2019

T-Mobile Attn: Jason Overbey, RF Manager 35 Griffin Road South Bloomfield, Connecticut 06002

Emissions Analysis for Site: CTI1054A - Wallingford/I-91/X15/G

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **992 Northrop Road** in **Wallingford, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm²). The number of μ W/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) - (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 μ W/cm² and 467 μ W/cm², respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 992 Northrop Road in Wallingford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 4 GSM channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 2 UMTS channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 2 UMTS channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.



- 6) 2 LTE channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the Ericsson AIR21 B2A_B4P for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 700 MHz channel(s), the for the 2100 MHz channel(s) in Sector A, the Ericsson AIR21 B2A_B4P for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 700 MHz channel(s), the Ericsson AIR B4A/B12P for the 2100 MHz channel(s) in Sector B, the Ericsson AIR21 B2A_B4P for the 1900 MHz / 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 700 MHz channel(s), the Ericsson AIR B4A/B12P for the 2100 MHz channel(s) in Sector C.
- 10) This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 11) The antenna mounting height centerline of the proposed antennas is 141 feet above ground level (AGL).
- 12) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

13) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	В	Sector:	С
Antenna #:	I	Antenna #:	1	Antenna #:	l
Make / Model:	Ericsson AIR21 B2A_B4P	Make / Model:	Ericsson AIR21 B2A_B4P	Make / Model:	Ericsson AIR21 B2A_B4P
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.35 dBd
Height (AGL):	I4I feet	Height (AGL):	I4I feet	Height (AGL):	I4I feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	8,226.43	ERP (W):	8,226.43	ERP (W):	8,226.43
Antenna A1 MPE %:	1.49%	Antenna B1 MPE %:	1.49%	Antenna C1 MPE %:	1.49%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVAARR24_43-U- NA20	Make / Model:	RFS APXVAARR24_43-U- NA20	Make / Model:	RFS APXVAARR24_43-U- NA20
Frequency Bands:	600 MHz / 700 MHz	Frequency Bands:	600 MHz / 700 MHz	Frequency Bands:	600 MHz / 700 MHz
Gain:	12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 13.35 dBd
Height (AGL):	I4I feet	Height (AGL):	I4I feet	Height (AGL):	I4I feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts
ERP (W):	2,481.08	ERP (W):	2,481.08	ERP (W):	2,481.08
Antenna A2 MPE %:	1.04%	Antenna B2 MPE %:	1.04%	Antenna C2 MPE %:	1.04%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR B4A/B12P	Make / Model:	Ericsson AIR B4A/B12P	Make / Model:	Ericsson AIR B4A/B12P
Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz
Gain:	15.85 dBd	Gain:	15.85 dBd	Gain:	15.85 dBd
Height (AGL):	I4I feet	Height (AGL):	I4I feet	Height (AGL):	I4I feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts
ERP (W):	4,615.10	ERP (W):	4,615.10	ERP (W):	4,615.10
Antenna A3 MPE %:	0.83%	Antenna B3 MPE %:	0.83%	Antenna C3 MPE %:	0.83%

Site Composite MPE %						
Carrier	MPE %					
T-Mobile (Max at Sector A):	3.36%					
AT&T	0.9%					
Metro PCS	1.24%					
Sprint	3.43%					
Clearwire	0.12%					
Site Total MPE % :	9.05%					

T-Mobile MPE % Per Sector						
T-Mobile Sector A Total:	3.36%					
T-Mobile Sector B Total:	3.36%					
T-Mobile Sector C Total:	3.36%					
Site Total MPE % :	9.05%					

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 1900 MHz UMTS	2	1028.30	141.0	3.72	1900 MHz UMTS	1000	0.37%
T-Mobile 1900 MHz GSM	4	1028.30	141.0	7.44	1900 MHz GSM	1000	0.74%
T-Mobile 2100 MHz UMTS	2	1028.30	141.0	3.72	2100 MHz UMTS	1000	0.37%
T-Mobile 600 MHz LTE	2	591.73	141.0	2.14	600 MHz LTE	400	0.54%
T-Mobile 700 MHz LTE	2	648.82	141.0	2.35	700 MHz LTE	467	0.50%
	•		•			Total:	3.36%

[•] NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	3.36%
Sector B:	3.36%
Sector C:	3.36%
T-Mobile Maximum MPE % (Sector A):	3.36%
Site Total:	9.05%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **9.05**% of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

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