

Derek Maheux Program Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
Mobile: (508)649-3407
Dmaheux@clinellc.com

September 25, 2023

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

**RE: Notice of Exempt Modification // Site: WESPORT S CT (ATC: 302511)
20 Post Office Lane, Westport CT 06880
N 41.17164377 // W -73.32861427**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antenna at the 100-ft level on the existing 142ft Tower, located at 20 Post Office Lane, Westport, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of two (2) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Bethany's Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated September 7, 2023, by A.T Engineering Services, LLC, a structural analysis dated August 16, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated August 14, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated August 31, 2023, by Tower Engineering Professionals.

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 new 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, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

For the foregoing reasons, Verizon Wireless 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,

Derek Maheux

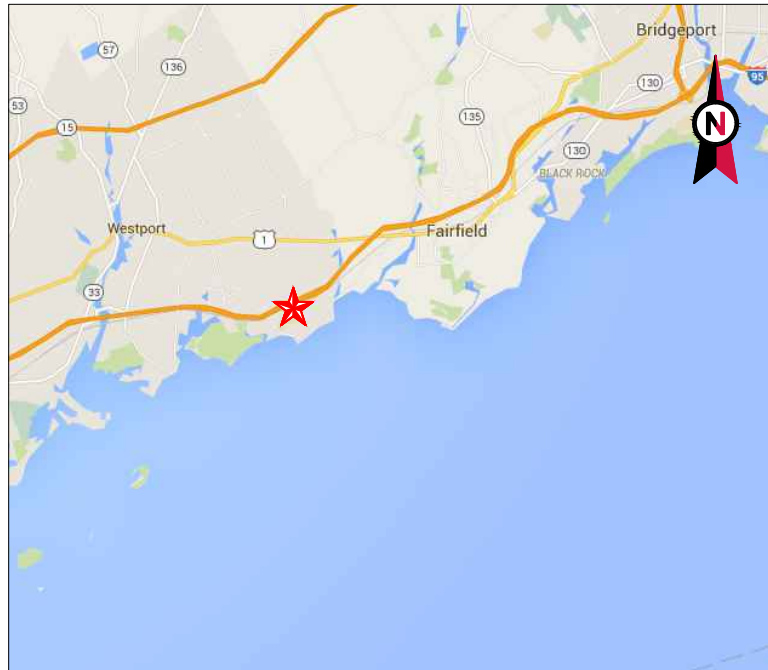
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Attachments: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit 7 – Notice Deliver Confirmations

cc: Jennifer Tooker – First Selectwoman – Chief Elected Official
Debrah Dobin, Chairwoman - as P&Z official
American Tower Corporation - as tower owner
Jay Sherwood – as ground owner

EXHIBIT 1





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: WSPT - SOUTH
 ATC SITE NUMBER: 302511
 VERIZON SITE NAME: WESTPORT S CT
 VERIZON SITE NUMBER: 5000386275
 VERIZON FUZE PID: FUZE ID FROM RFDS
 SITE ADDRESS: 20 POST OFFICE LANE
 WESTPORT, CT 06880



LOCATION MAP

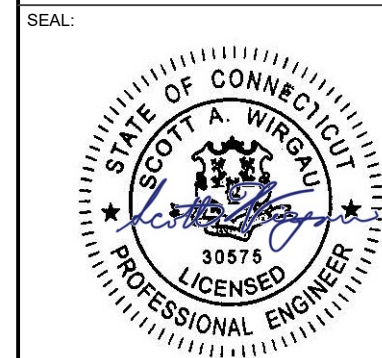


AMERICAN TOWER®
 A.T. ENGINEERING SERVICES LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS 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. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	8/29/2023
1	ADD DESIGN CRITERIA	LLR	09/07/23

ATC SITE NUMBER:
 302511
 ATC SITE NAME:
 WSPT - SOUTH
 VERIZON SITE NAME:
 WESTPORT S CT
 SITE ADDRESS:
 20 POST OFFICE LANE
 WESTPORT, CT 06880



VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC) <u>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</u> BASIC WIND SPEED: 118MPS (3-SECOND GUST) BASIC WIND SPEED W/ ICE: 50 MPH (3-SECOND GUST) W/ 1.00" RADIAL ICE CONCURRENT CODE(S): ANSITIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE EXPOSURE CATEGORY: C RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 FEATURE: XXX SPECTRAL RESPONSE: S _s =0.23, S _z =0.06 SITE CLASS: D - STIFF SOIL - DEFAULT INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 08/17/23.	<u>SITE ADDRESS:</u> 20 POST OFFICE LANE WESTPORT, CT 06880 COUNTY: FAIRFIELD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.12346728 LONGITUDE: -73.31308307 GROUND ELEVATION: 15' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL MOUNT MODIFICATIONS AND (2) FILTER(S) EXISTING (12) ANTENNA(S), (6) RRR(S), (1) OVP(S), (1) 1-5/8" HYBRIFLEX, (6) 7/8" COAX, (1) 1/2" COAX AND (1) 1-5/8" COAX CABLE(S) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> JAY SHERWOOD 20 POST OFFICE LANE WESTPORT, CT 06880	PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001 TITLE SHEET G-002 GENERAL NOTES C-101 DETAILED SITE PLAN C-201 TOWER ELEVATION C-401 ANTENNA INFORMATION & SCHEDULE C-501 CONSTRUCTION DETAILS E-501 GROUNDING DETAILS R-601 SUPPLEMENTAL				
<u>UTILITY COMPANIES</u> POWER COMPANY: UNITED ILLUMINATING PHONE: (800) 722-5584 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102	<u>APPLICANT:</u> VERIZON WIRELESS	<u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD TAKE I-91 SOUTH TO I-95 SOUTH. TAKE EXIT 18 STAYING TO THE RIGHT OFF THE EXIT. AT SECOND LIGHT TAKE A RIGHT AND FOLLOW ABOUT 1.25 MILES AND TURN RIGHT ONTO NEW CREEK ROAD. GO UNDER BRIDGE AND TURN LEFT ONTO POST OFFICE LANE. FOLLOW TO END PAST THE HOUSE TO THE SITE.	<u>CONTRACTOR PMI REQUIREMENTS</u> PMI ACCESSED AT: HTTPS://PMI.VZWSMART.COM SMART TOOL VENDOR PROJECT NUMBER: 10208087 VZW LOCATION CODE (PSLC): 5000386275 ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT MOUNT MODIFICATION REQUIRED: YES VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS				



ATC JOB NO:	14519513_G0
CUSTOMER ID:	WESTPORT S CT
CUSTOMER #:	5000386275

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 1
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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/NTIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON 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.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. 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.
27. CONTRACTOR SHALL NOTIFY VERIZON 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.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. 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.
31. 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.
32. 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 VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. 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.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

- B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
 - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



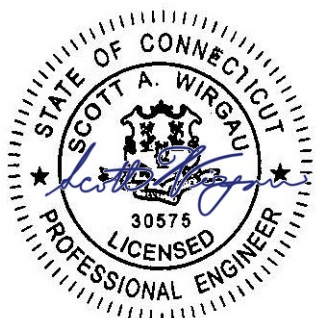
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 VERIZON SITE NAME:
 WESTPORT S CT
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SEAL:



Digitally Signed: 2023-09-07



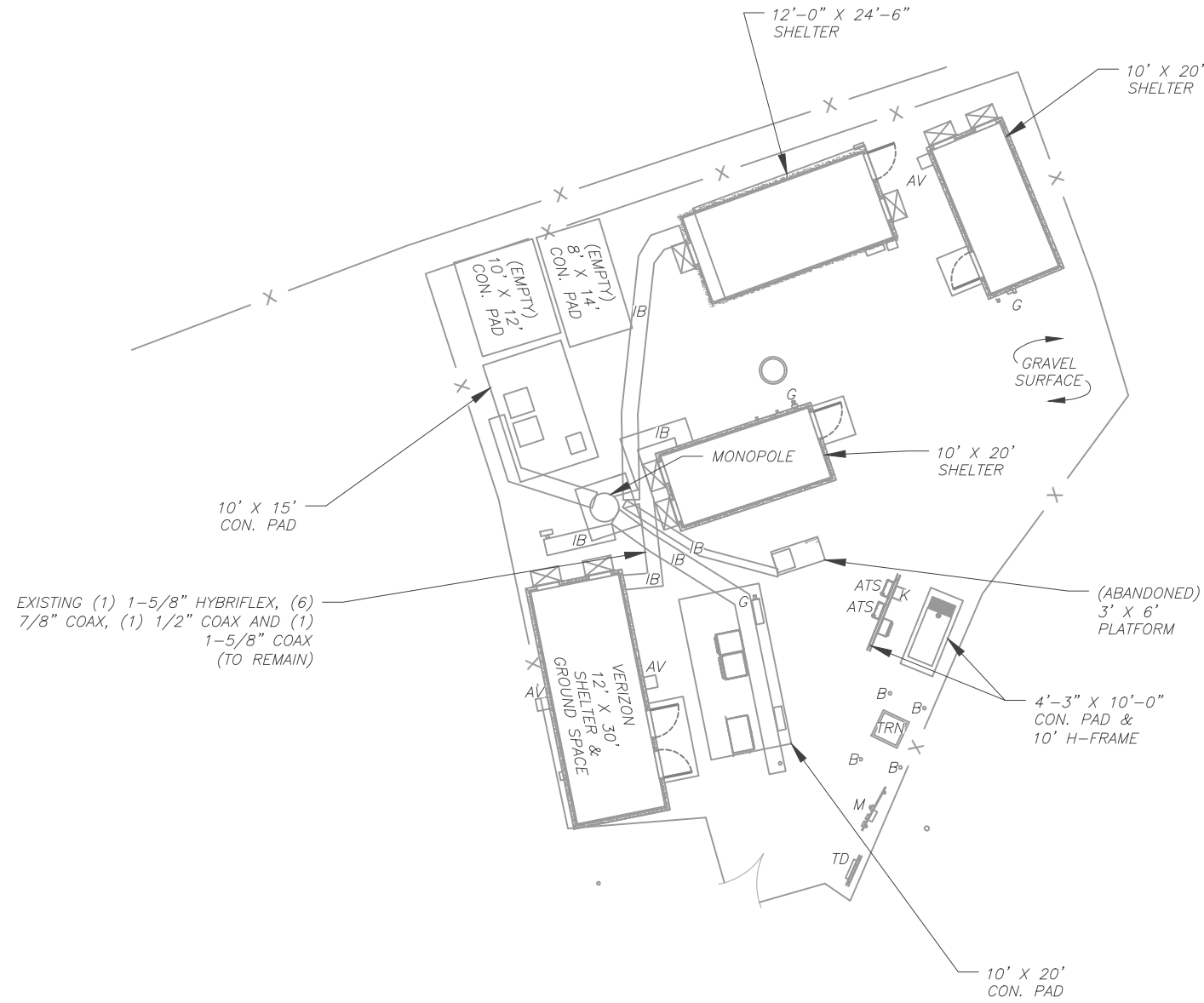
ATC JOB NO:	14519513_G0
CUSTOMER ID:	WESTPORT S CT
CUSTOMER #:	5000386275

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

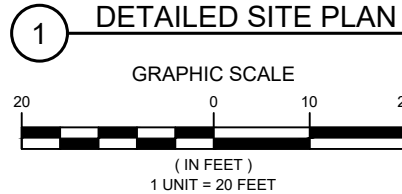
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.



EXISTING (1) 1-5/8" HYBRIFLEX, (6) 7/8" COAX, (1) 1/2" COAX AND (1) 1-5/8" COAX (TO REMAIN)

LEGEND

- ⊗ GROUNDING TEST WELL
- ATS AUTOMATIC TRANSFER SWITCH
- B BOLLARD
- CSC CELL SITE CABINET
- D DISCONNECT
- E ELECTRICAL
- F FIBER
- GEN GENERATOR
- G GENERATOR RECEPTACLE
- HH, V HAND HOLE, VAULT
- IB ICE BRIDGE
- K KENTROX BOX
- LC LIGHTING CONTROL
- M METER
- PB PULL BOX
- PP POWER POLE
- T TELCO
- TRN TRANSFORMER
- CHAINLINK FENCE



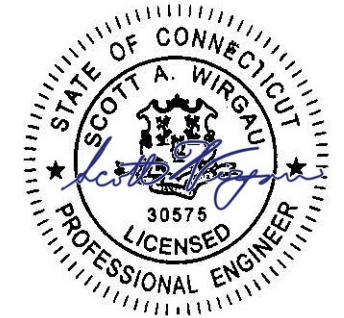
AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
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SEAL:



Digitally Signed: 2023-09-07

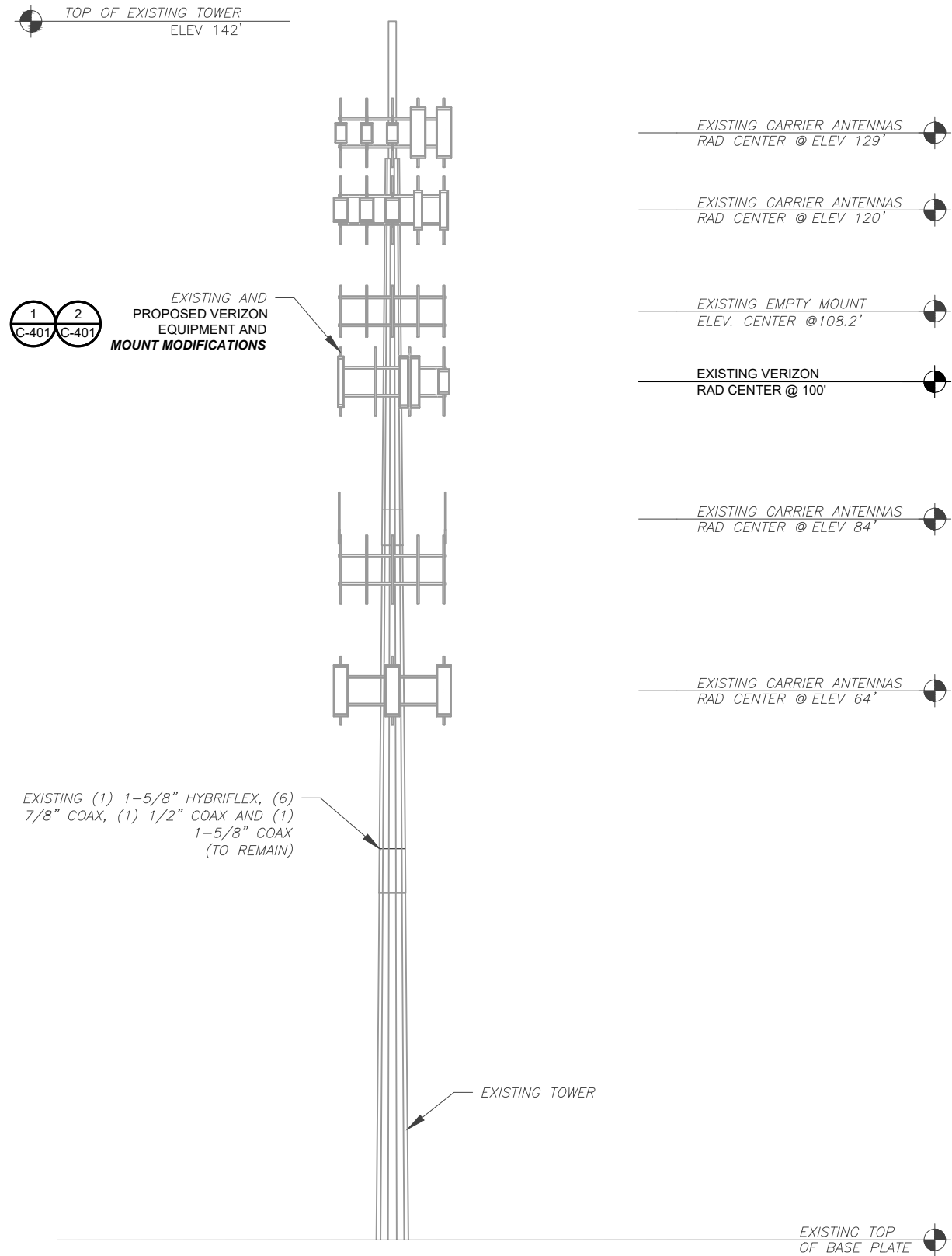


ATC JOB NO:	14519513_G0
CUSTOMER ID:	WESTPORT S CT
CUSTOMER #:	5000386275

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN CT, P.C., DATED 10208087, THE EXISTING MOUNT **MUST BE MODIFIED** TO 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.



AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS 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. 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 OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	8/29/2023

ATC SITE NUMBER:
302511
 ATC SITE NAME:
WSPT - SOUTH
 VERIZON SITE NAME:
WESTPORT S CT
 SITE ADDRESS:
 20 POST OFFICE LANE
 WESTPORT, CT 06880



Digitally Signed: 2023-09-07

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



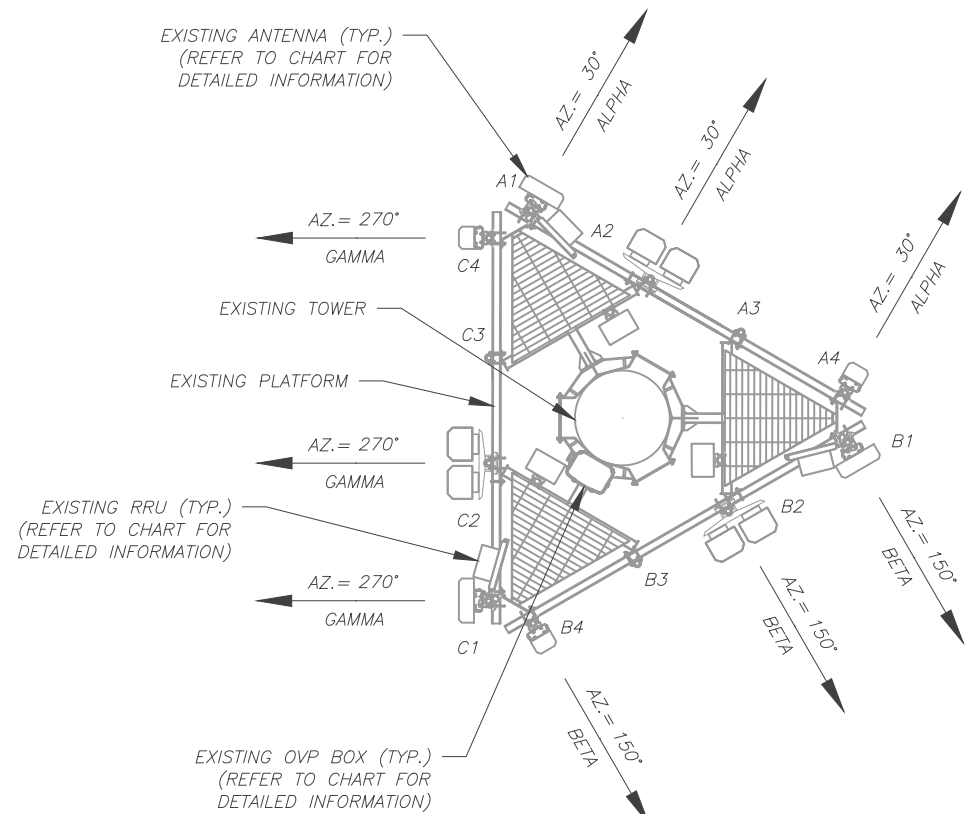
ATC JOB NO:	14519513_GO
CUSTOMER ID:	WESTPORT S CT
CUSTOMER #:	5000386275

TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: 0
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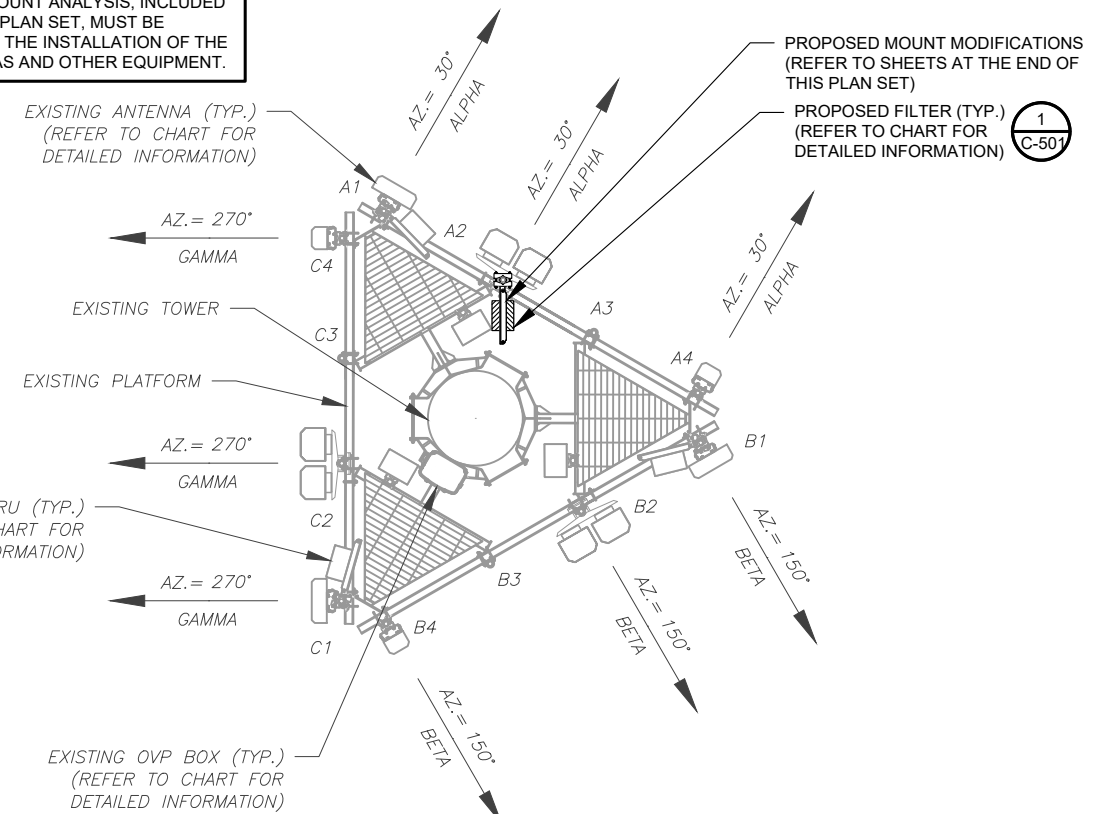
1 TOWER ELEVATION
 SCALE: N.T.S.

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1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN CT, P.C., DATED 10208087, THE EXISTING MOUNT MUST BE MODIFIED TO 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.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	100'	30°	A1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			A2	(2) QS6656-5D	-	RMN	B2/B66A RRH-BR049	RMN
			A3	-	-	-	-	-
			A4	BXA-70080/6CF___	-	RMN	-	-
BETA	100'	150°	B1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			B2	(2) QS6656-5D	-	RMN	B2/B66A RRH-BR049	RMN
			B3	-	-	-	-	
			B4	BXA-70080/6CF___	-	RMN	-	-
GAMMA	100'	270°	C1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			C2	(2) QS6656-5D	-	RMN	B2/B66A RRH-BR049	RMN
			C3	-	-	-	-	
			C4	BXA-70080/6CF___	-	RMN	-	-

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	100'	30°	A1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			A2	(2) QS6656-5D	-	RMN	(2) KA-6030 B2/B66A RRH-BR049	ADD RMN
			A3	-	-	-	-	
			A4	BXA-70080/6CF___	-	RMN	-	-
BETA	100'	150°	B1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			B2	(2) QS6656-5D	-	RMN	B2/B66A RRH-BR049	RMN
			B3	-	-	-	-	
			B4	BXA-70080/6CF___	-	RMN	-	-
GAMMA	100'	270°	C1	MT6407-77A	-	RMN	B5/B13 RRH-BR04C	RMN
			C2	(2) QS6656-5D	-	RMN	B2/B66A RRH-BR049	RMN
			C3	-	-	-	-	
			C4	BXA-70080/6CF___	-	RMN	-	-

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
RRFDC-6627-PF-48	RMN	(1) 1-5/8" HYBRIFLEX, (6) 7/8" COAX, (1) 1/2" COAX AND (1) 1-5/8" COAX	RMN
-	RMV	----	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
RRFDC-6627-PF-48	RMN	(1) 1-5/8" HYBRIFLEX, (6) 7/8" COAX, (1) 1/2" COAX AND (1) 1-5/8" COAX	RMN
-	ADD	----	ADD

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	8/29/2023
1			
2			
3			
4			

ATC SITE NUMBER:
302511

ATC SITE NAME:
WSPT - SOUTH

VERIZON SITE NAME:
WESTPORT S CT

SITE ADDRESS:
20 POST OFFICE LANE
WESTPORT, CT 06880



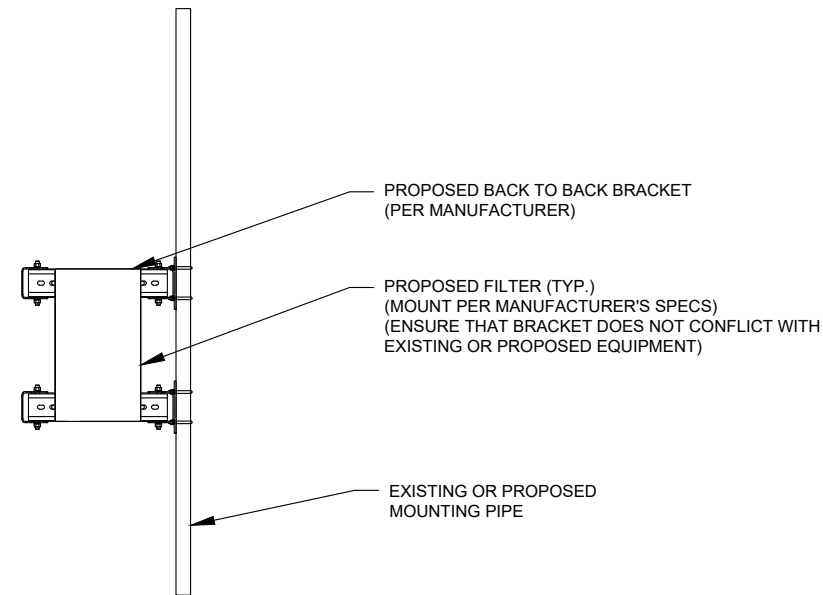
Digitally Signed: 2023-09-07

ATC JOB NO: 14519513_G0
CUSTOMER ID: WESTPORT S CT
CUSTOMER #: 5000386275

ANTENNA INFORMATION & SCHEDULE	
SHEET NUMBER:	REVISION:
C-401	0

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EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



1 PROPOSED FILTER MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



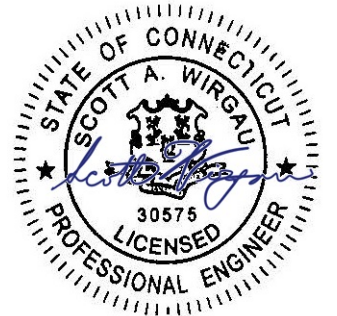
AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
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 SUITE 100
 CARY, NC 27518
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	8/29/2023

ATC SITE NUMBER:
 302511
 ATC SITE NAME:
 WSPT - SOUTH
 VERIZON SITE NAME:
 WESTPORT S CT
 SITE ADDRESS:
 20 POST OFFICE LANE
 WESTPORT,CT 06880

SEAL:



Digitally Signed: 2023-09-07

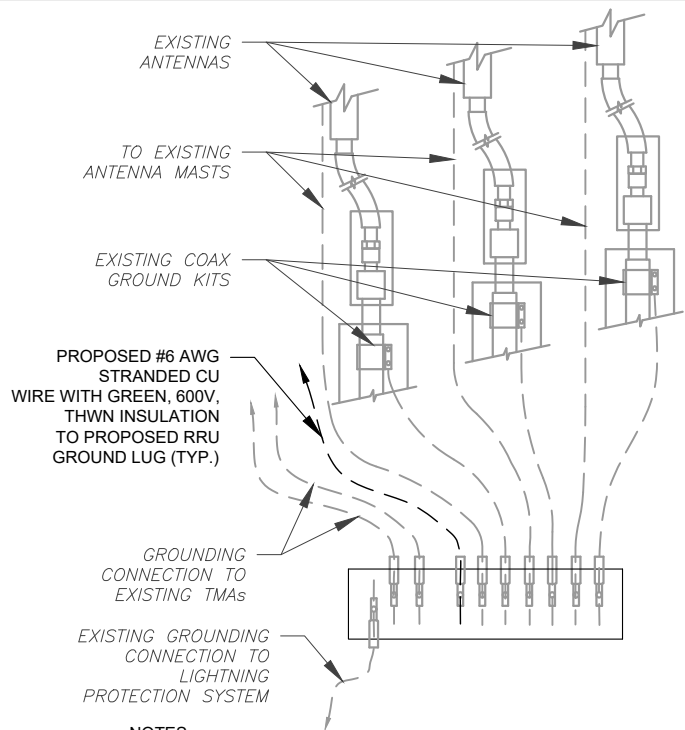


ATC JOB NO:	14519513_G0
CUSTOMER ID:	WESTPORT S CT
CUSTOMER #:	5000386275

**CONSTRUCTION
 DETAILS**

SHEET NUMBER:	REVISION:
C-501	0

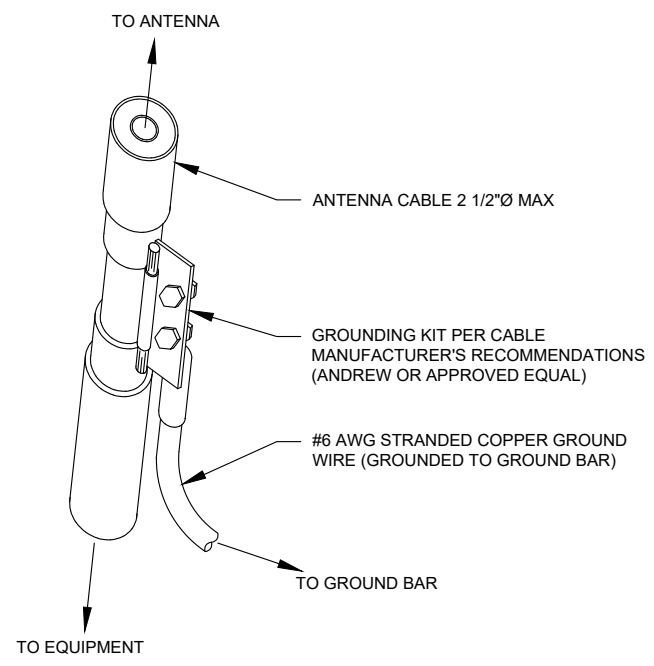
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NOTES:

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 VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

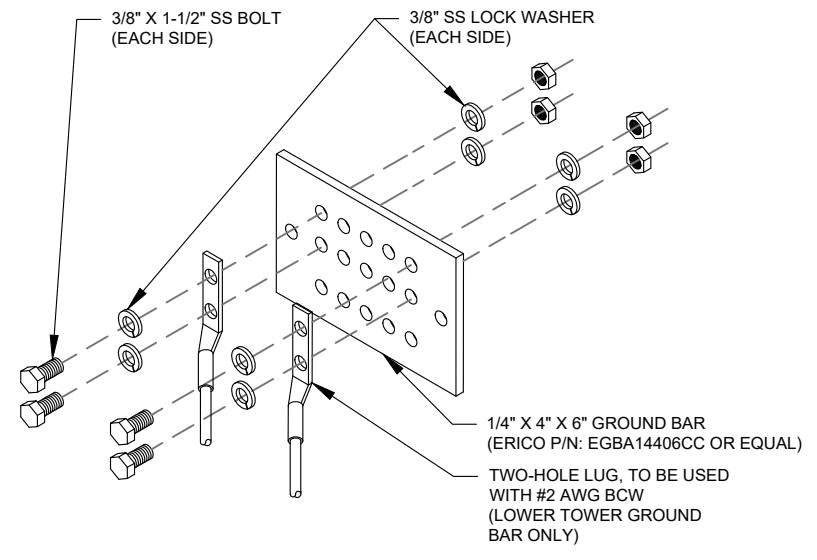
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. 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.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.

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 SUITE 100
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	8/29/2023

ATC SITE NUMBER:
302511

ATC SITE NAME:
WSPT - SOUTH

VERIZON SITE NAME:
WESTPORT S CT

SITE ADDRESS:
20 POST OFFICE LANE
WESTPORT, CT 06880

SEAL:

Digitally Signed: 2023-09-07

ATC JOB NO: 14519513_G0
 CUSTOMER ID: WESTPORT S CT
 CUSTOMER #: 5000386275

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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Colliers Engineering & Design CT, P.C.
 1055 Washington Blvd
 Stamford, CT 06901
 203.324.0800
 peter.albano@collierseng.com

Mount Structural Analysis Report
 (1) 11.00-Ft Platform

August 14, 2023
 Site ID: 5000386275-VZW / WESTPORT S CT
 Page | 5

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208087
 Colliers Engineering & Design CT, P.C. Project #: 23777235

August 14, 2023

Site Information

Site ID: 5000386275-VZW / WESTPORT S CT
 Site Name: WESTPORT S CT
 Carrier Name: Verizon Wireless
 Address: 1 Post Office Ln.
 Westport, Connecticut 06880
 Fairfield County
 Latitude: 41.123444°
 Longitude: -73.313067°

Structure Information

Tower Type: Monopole
 Mount Type: 11.00-Ft Platform

FUZE ID # 17123770

Analysis Results

Platform: 60.7% Pass w/ Hardware Upgrades*

* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

*****Contractor PMI Requirements:**

Included at the end of this MA report
 Available & Submitted via portal at <https://pmi.vzsmart.com>
 For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Grant Walters



Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

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 VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

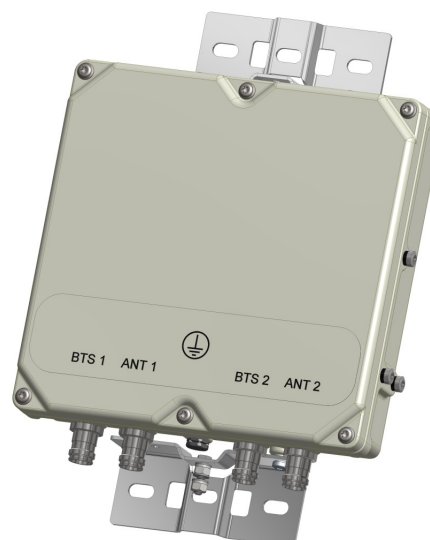
KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



TECHNICAL SPECIFICATIONS

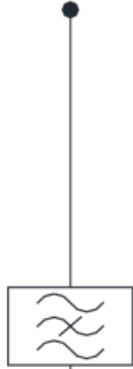
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM

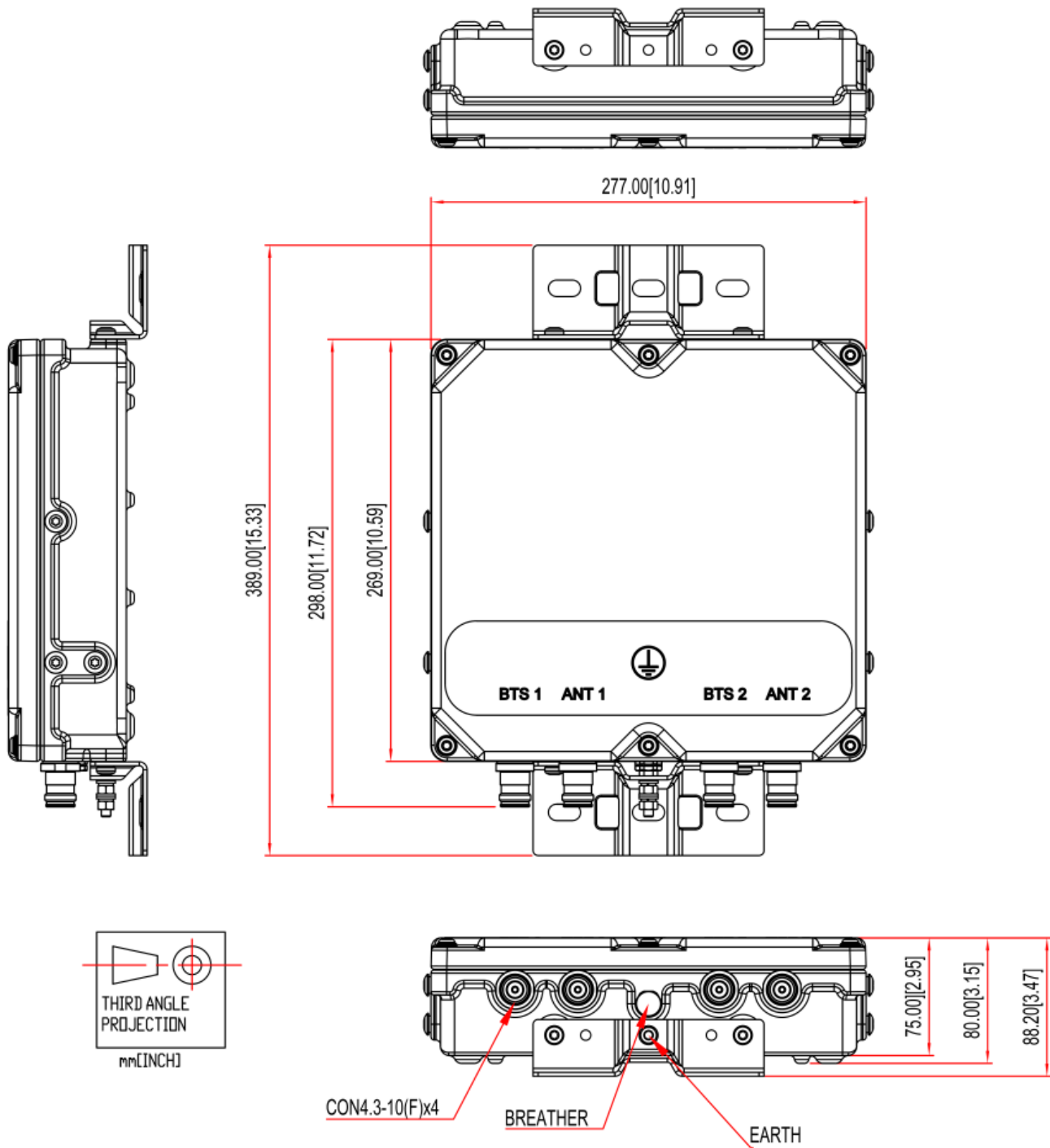


EXHIBIT 2



CONSTRUCTION DETAIL							CONSTRUCTION DETAIL (CONTINUED)					
Element	Cd	Description					Element	Cd	Description			
Style:	94	Outbuildings					Fireplaces					
Model	00	Vacant					Ceiling Height					
Grade:							Elevator					
Stories:							CONDO DATA					
Occupancy							Parcel Id		C		Own	
Exterior Wall 1										B		S
Exterior Wall 2							Adjust Type	Code	Description	Factor%		
Roof Structure:							Condo Flr					
Roof Cover							Condo Unit					
Interior Wall 1							COST / MARKET VALUATION					
Interior Wall 2							Building Value New		0			
Interior Flr 1							Year Built		0			
Interior Flr 2							Effective Year Built					
Heat Fuel							Depreciation Code					
Heat Type:							Remodel Rating					
AC Type:							Year Remodeled					
Total Bedrooms							Depreciation %		0			
Total Bthrms:							Functional Obsol		0			
Total Half Baths							External Obsol		0			
Total Xtra Fixtrs							Trend Factor		1			
Total Rooms:							Condition					
Bath Style:							Condition %		100			
Kitchen Style:							Percent Good					
Kitchens							Cns Sect Rcnd		0			
Whirlpool Tubs							Dep % Ovr					
Hot Tubs							Dep Ovr Comment					
Sauna (SF Area)							Misc Imp Ovr					
Fin Basement							Misc Imp Ovr Comment					
Fin Bsmt Qual							Cost to Cure Ovr					
Bsmt. Garages							Cost to Cure Ovr Comment					
Interior Cond												
Fireplaces												
Ceiling Height												

No Sketch

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Descript	Sub	Sub Ty	L/B	Units	Unit Pric	Yr Blt	Cond. C	% Gd	Grade	Grade A	Appr. V
CELL	Cell on	TW		L	5	328000.	2010		100	2	0.75	1,253,9

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
Ttl Gross Liv / Lease Area		0	0			0



CURRENT OWNER		TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT				
SHERWOOD JAY			2 Public Water	1 Public		Description	Code	Appraised	Assessed	6158 WESTPORT, CT
P O BOX 48						UTL LAND	4-1	313,000	219,100	
WESTPORT CT 06881						UTL BLDG	4-2	-89,500	-62,700	
SUPPLEMENTAL DATA						UTL OUTBL	4-3	1,253,900	877,730	VISION
1		Alt Prcl ID	5452217-C		Lift Hse					
		Historic ID			Asking \$					
		Census	506							
		WestportC	L3							
		Survey Ma	3206							
		Survey Ma								
		GIS ID	H06017000		Assoc Pid#					
						Total		1,477,400	1,034,130	

RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)					
SHERWOOD JAY		0469 0137	12-08-1977	U	V	0	29	Year	Code	Assessed	Year	Code	Assessed
								2021	4-1	219,100	2020	4-1	219,100
									4-2	-62,700		4-2	-62,700
									4-3	877,730		4-3	877,730
								Total		1,034,130	Total		1,034,130

EXEMPTIONS				OTHER ASSESSMENTS				APPRAISED VALUE SUMMARY				
Year	Code	Description	Amount	Code	Description	Number	Amount	Comm Int	This signature acknowledges a visit by a Data Collector or Assessor			
									APPRAISED VALUE SUMMARY			
Total			0.00					Appraised Bldg. Value (Card)				-89,500
								Appraised Xf (B) Value (Bldg)				0
								Appraised Ob (B) Value (Bldg)				1,253,900
								Appraised Land Value (Bldg)				313,000
								Special Land Value				0
								Total Appraised Parcel Value				1,477,400
								Valuation Method				1
								Total Appraised Parcel Value				1,477,400

BUILDING PERMIT RECORD								VISIT / CHANGE HISTORY						
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpost/Result
82271	01-13-2017	NA	Miscellaneous	5,000	04-11-2017	100		NEW WORK ON EXISTING TOWER FOR ANTENNA EXPANSION. AKA 20 POST OFFICE LANE.	06-12-2020	SR			19	Field Review
81426	05-12-2016	AL	Alterations	25,000	04-11-2017	100	03-06-2017	AKA 20 POST OFFICE LN UP	04-11-2017	TM	2		55	NOAH - Visual
81189	03-07-2016	AL	Alterations	15,000	04-11-2017	100	04-01-2016	INSTALL 3 ANTENNAS FOR " T MOBIL "	10-01-2015	AG	2		69	Partial Int Inspn (See Perm
79224	10-28-2014	AL	Alterations	27,000	10-01-2015	100		INSTALL 3 PANEL ANTENNA	05-14-2015	VA			66	INSPECTION NOTICE SE

Permit Id	Comments
82271	NEW WORK ON EXISTING TOWER FOR ANTENNA EXPANSION. AKA 20 POST OFFICE LANE.
81426	AKA 20 POST OFFICE LN UPGRADE ANTENNAS - PE TO INSPECT & SIGN OFF UPON COMPLETION OF WORK
81189	INSTALL 3 ANTENNAS FOR " T MOBIL " PE MUST SIGN OFF UPON COMPLETION"
79224	INSTALL 3 PANEL ANTENNAS & 3 RRU'S ** NEED ENGINEER SIGNOFF UPON COMPLETION OF WORK**
73207	AKA 19 - 20 POST OFFICE LN. ADD THREE ANTENNAS TO EXISTING POLE**PE SIGNOFF UPON COMPLETION OF WORK REQUIRED FOR CO**

LAND LINE VALUATION SECTION															
B	Use Code	Description	Zone	Land	Land Units	Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustment	Adj Unit P	Land Value
1	435	Cell Site Vac Lnd	AAA		2.070 AC	1,080,000.	1.00000	C	0.10	140	1.400	GRAVEL STORAGE		1.0000	313,000
Total Card Land Units					2.070 AC	Parcel Total Land Area					2	Total Land Value			313,000

0.23 AC

TC 5616

STATE OF CT

INTERSTATE 95

NEW YORK NEW HAVEN RAILROAD

17

2.07

30

11

1.80 Ac

TC 7199

34

10

1.32 Ac

TC 9027

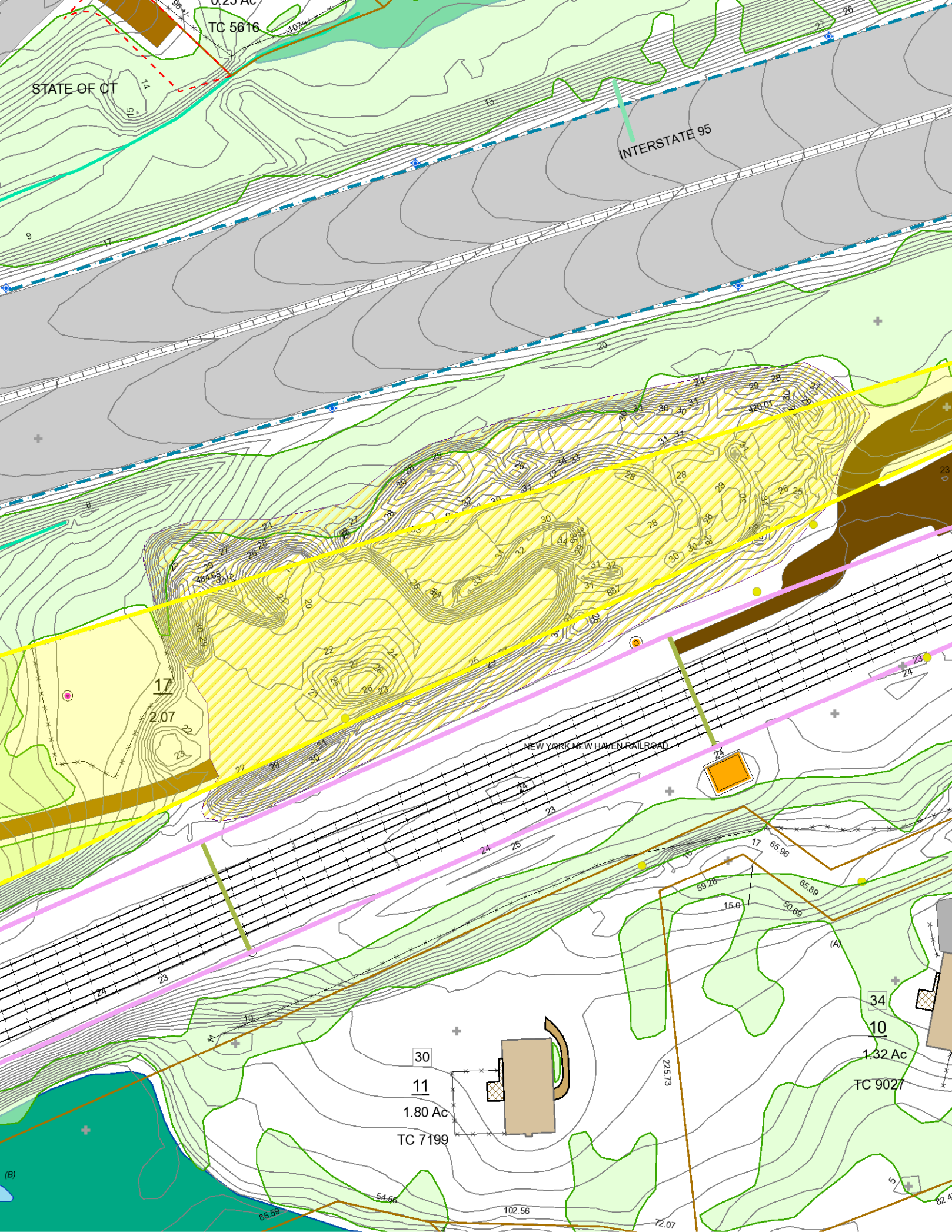


EXHIBIT 3





AMERICAN TOWER®
CORPORATION

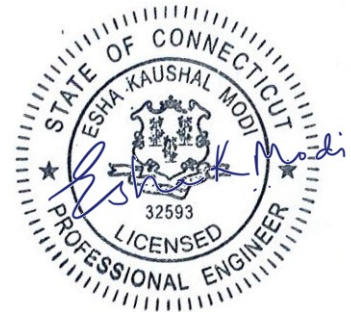
Structural Analysis Report

Structure : 142 ft Monopole
ATC Asset Name : WSPT - South
ATC Asset Number : 302511
Engineering Number : 14519513_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : Westport S CT
Carrier Site Number : 5000386275
Site Location : 20 Post Office Lane
Westport, CT 06880-6226
41.1235° N, 73.3131° W
County : Fairfield
Date : August 16, 2023
Max Usage : 84%
Analysis Result : Pass

Created By:

Nathan Lyle
Structural Engineer I

Nathan Lyle



COA: PEC.0001553

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 142 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	EI Drawing #GS50841, dated March 2, 1998
Foundation:	Mapping by TEP Project #65218-72422, dated December 28, 2015
Geotechnical:	MB&A Project #011105, dated July 17, 2001
Modification:	EI Drawing #GS54696, dated July 24, 2003 ATC Job #42046633, dated October 16, 2008

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	118 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.23$, $S_i = 0.06$
Site Class:	D - Stiff Soil - Default

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower Engineering via email at Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	76.8%	1.2D + 1.0W	Pass
Reinforcement	66.0%	0 ft to 55.68 ft	Pass
Upper Termination	62.4%	0 ft to 55.68 ft	Pass
Intermediate Connector	50.1%	0 ft to 55.68 ft	Pass
Upper Flange Plate @ 128.0 ft	53.8%	Plate	Pass
Lower Flange Plate @ 126.0 ft	8.0%	Bolts	Pass
Extension Interface @ 126.0 ft	52.5%	Flexure	Pass
Base Plate @ 0.0 ft	84.1%	Stiffener	Pass
Mat & Pier	37.8%	Moment [Soil]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	3,166.2	56.1	36.2

**Reactions shown reflect the results from the Load Case with maximum Moment*

Structure base reactions were analyzed using available geotechnical and foundation information.

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
100.0	1	Platform with Handrails	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex (1) 1/2" Coax (6) 7/8" Coax
	1	GPS	
	1	Raycap RRFDC-6627-PF-48	
	2	Kaelus KA-6030	
	3	Antel BXA-70080/6CF__	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung B5/B13 RRH-BR04C	
	3	Samsung MT6407-77A	
	6	Quintel QS6656-5D	

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
133.0	3	Ericsson Air 6449 B77D	-	AT&T MOBILITY
131.0	1	Raycap DC6-48-60-0-8C	(1) 0.39" (10mm) Fiber Trunk (2) 0.40" (10.3mm) Fiber (2) 0.88" (22.4mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable (6) 1 1/4" Coax (4) 2" conduit	AT&T MOBILITY
	2	Raycap DC6-48-60-18-8F ("Squid")		
	3	CCI DMP65R-BU6EA-K		
	3	CCI OPA65R-BU6D		
	3	Ericsson RRUS 32 B30		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS 8843 B2, B66A		
	3	Sector Frame		
129.0	3	Ericsson AIR 6419 B77G	-	AT&T MOBILITY
120.0	1	Square Platform with Handrails	(4) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Commscope VV-65A-R1		
	3	Ericsson 4460 BAND 2/25		
	3	Ericsson 4480 BAND 71		
	3	Ericsson AIR 6419 B41		
	3	RFS APXVAALL24 43-U-NA20		
111.0	1	Platform with Handrails	-	SPRINT NEXTEL
78.1	2	Diamond X50A	-	SENET, INC.
78.0	1	Stand-Off	(2) 0.405" (10.3mm) Coax	SENET, INC.
	1	Side Arm		
64.0	1	Platform with Handrails	(1) 1.41" (35.8mm) Hybrid	DISH WIRELESS L.L.C.
	1	Raycap RDIDC-9181-PF-48		
	3	Commscope FFV-65B-R2		
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		

(If table breaks across pages, please see previous page for data in merged cells)

Standard Conditions

All engineering services performed by A.T. Engineering Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

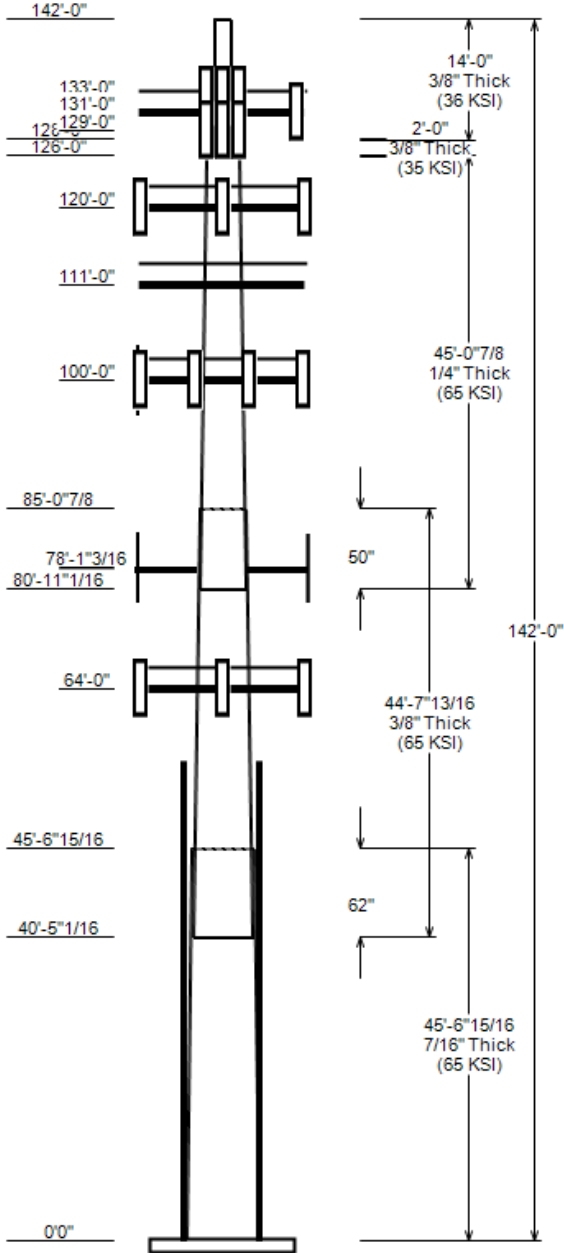
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ANALYSIS PARAMETERS

Nominal Wind: 118 mph	Ice Wind: 50 mph w/ 1" ice	Service Wind: 60 mph
Risk Category: II	Exposure: C	S _s : 0.226 S _i : 0.055
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 142 ft	Base Elevation: 0.00 ft	Structure Type: Custom
Base Diameter: 45 in	Base Rotation: 0°	Taper: 0.2120 (in/ft)

POLE SECTION PROPERTIES

Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	45.578	35.32	45.00	0.438		0.000	12 Sides	65
2	44.654	27.69	37.17	0.375	Slip Joint	61.880	12 Sides	65
3	45.076	19.50	29.07	0.250	Slip Joint	49.810	12 Sides	65
4	2.000	10.75	10.75	0.375	Butt Joint	0.000	Round	35
5	14.000	10.75	10.75	0.375	Butt Joint	0.000	Round	36



DISCRETE APPURTENANCE

Elev (ft)	Description
133.0	(3) Ericsson Air 6449 B77D
131.0	(2) Raycap DC6-48-60-18-8F ("Squid
131.0	(3) Ericsson RRUS 8843 B2, B66A
131.0	(3) Ericsson RRUS 4478 B14
131.0	(3) Ericsson RRUS 4449 B5, B12
131.0	(3) Ericsson RRUS 32 B30
131.0	(1) Raycap DC6-48-60-0-8C
131.0	(3) CCI DMP65R-BU6EA-K
131.0	(3) CCI OPA65R-BU6D
131.0	(3) Generic Round Sector Frame
129.0	(3) Ericsson AIR 6419 B77G
120.0	(3) Ericsson 4460 BAND 2/25
120.0	(3) Ericsson 4480 BAND 71
120.0	(3) Ericsson AIR 6419 B41
120.0	(3) Commscope VV-65A-R1
120.0	(3) RFS APXVAALL24 43-U-NA20
120.0	(1) Generic Square Platform with H
111.0	(1) Generic Flat Platform with Han
100.0	(1) Generic GPS
100.0	(2) Kaelus KA-6030
100.0	(3) Samsung B5/B13 RRH-BR04C
100.0	(3) Samsung B2/B66A RRH-BR049
100.0	(1) Raycap RRFDC-6627-PF-48
100.0	(3) Samsung MT6407-77A
100.0	(3) Intel BXA-70080/6CF
100.0	(6) Quintel QS6656-5D
100.0	(1) Generic Flat Platform with Han
78.1	(2) Diamond X50A
78.0	(1) Generic Round Side Arm
78.0	(1) Generic Flat Stand-Off
64.0	(3) Fujitsu TA08025-B604
64.0	(3) Fujitsu TA08025-B605
64.0	(1) Raycap RDIDC-9181-PF-48
64.0	(3) Commscope FFVV-65B-R2
64.0	(1) Generic Round Platform with Ha

LINEAR APPURTENANCE

Elev To (ft)	Description
131.0	(4) 2" conduit
131.0	(6) 1 1/4" Coax
131.0	(4) 0.92" (23.4mm) Cable
131.0	(2) 0.88" (22.4mm) 8 AWG 6
131.0	(2) 0.40" (10.3mm) Fiber
131.0	(1) 0.39" (10mm) Fiber Trunk
120.0	(4) 1.99" (50.7mm) Hybrid
100.0	(6) 7/8" Coax
100.0	(1) 1/2" Coax
100.0	(1) 1 5/8" Hybriflex
100.0	(6) 1 5/8" Coax
78.0	(2) 0.405" (10.3mm) Coax
64.0	(1) 1.41" (35.8mm) Hybrid
63.0	(1) #20 w/ Angle Brackets
63.0	(1) #20 w/ Angle Brackets
63.0	(1) #20 w/ Angle Brackets
63.0	(1) #20 w/ Angle Brackets

GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	3166.23	56.14	36.19
0.9D + 1.0W	3127.33	42.09	36.17
1.2D + 1.0Di + 1.0Wi	791.01	74.97	8.10
1.2D + 1.0Ev + 1.0Eh	156.91	56.35	1.41
0.9D - 1.0Ev + 1.0Eh	154.07	38.46	1.41
1.0D + 1.0W	731.08	46.83	8.40

ANALYSIS PARAMETERS

Location:	Fairfield County,CT	Height:	142 ft
Type and Shape:	Custom, Round	Base Diameter:	45.00 in
Manufacturer:	EEL	Top Diameter:	19.50 in
K_d (non-service):	0.95	Taper:	0.2120 in/ft
K_e:	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Risk Category:	II	Design Wind Speed:	118 mph
Exposure Category:	C	Design Wind Speed w/ Ice:	50 mph
Topo Factor Procedure:	Method 1	Design Ice Thickness:	1.00 in
Topographic Category:	1	Service Wind Speed:	60 mph
Crest Height:	0 ft	HMSL:	15.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	2.38
T_L (sec):	6	P:	1
S_s:	0.226	S₁:	0.055
F_a:	1.600	F_v:	2.400
S_{ds}:	0.241	S_{d1}:	0.088
		C_s:	0.030
		C_s Max:	0.030
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W	118 mph Wind with No Ice
0.9D + 1.0W	118 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Bottom						Top								
						Weight (lb)	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-12	45.58	0.4375	65		0.00	8,679	45.00	0.002	62.78	15,912.1	24.88	102.86	35.32	45.58	49.15	7,634.6	18.95	80.74	0.2123	
2-12	44.65	0.3750	65	Slip	61.88	5,881	37.17	40.426	44.43	7,676.9	23.88	99.11	27.69	85.08	32.98	3,140.5	17.10	73.84	0.2123	
3-12	45.08	0.2500	65	Slip	49.81	2,968	29.07	80.924	23.20	2,459.5	28.48	116.28	19.50	126.00	15.50	733.0	18.22	78.00	0.2123	
4-R	2.00	0.3750	35	Butt	0.00	83	10.75	126.000	12.22	164.6	0.00	28.67	10.75	128.00	12.22	164.6	0.00	28.67	0.0000	
5-R	14.00	0.3750	36	Butt	0.00	582	10.75	128.000	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.0000	
Total Shaft Weight						18,193														

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
133.00	Ericsson Air 6449 B77D	3	0.80	0.000	81.60	4.028	0.65	149.43	4.935	0.65
131.00	Raycap DC6-48-60-18-8F ("Squid	2	0.80	0.000	18.90	1.470	1.00	59.56	1.930	1.00
131.00	CCI DMP65R-BU6EA-K	3	0.80	0.000	103.80	12.709	0.65	287.31	14.546	0.65
131.00	Raycap DC6-48-60-0-8C	1	0.80	0.000	16.00	3.048	0.50	64.83	3.799	0.50
131.00	Ericsson RRUS 32 B30	3	0.80	0.000	60.00	2.743	0.50	108.47	3.513	0.50
131.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	113.46	2.584	0.50
131.00	Ericsson RRUS 4478 B14	3	0.80	0.000	59.90	1.842	0.50	96.33	2.433	0.50
131.00	Ericsson RRUS 8843 B2, B66A	3	0.80	0.000	72.00	1.639	0.50	112.38	2.196	0.50
131.00	Generic Round Sector Frame	3	0.75	0.000	700.00	14.400	0.67	1342.54	25.305	0.67
131.00	CCI OPA65R-BU6D	3	0.80	0.000	63.20	12.871	0.63	235.38	14.714	0.63
129.00	Ericsson AIR 6419 B77G	3	0.80	0.000	66.10	3.797	0.65	129.92	4.664	0.65
120.00	Ericsson 4460 BAND 2/25	3	0.75	0.000	109.00	2.564	0.67	166.62	3.251	0.67
120.00	Ericsson 4480 BAND 71	3	0.75	0.000	81.00	2.878	0.67	130.63	3.610	0.67
120.00	Ericsson AIR 6419 B41	3	0.75	0.000	68.50	5.600	0.63	147.27	6.633	0.63
120.00	Commscope VV-65A-R1	3	0.75	0.000	23.80	5.928	0.63	100.35	7.309	0.63
120.00	RFS APXVAALL24 43-U-NA20	3	0.75	0.000	122.80	20.243	0.63	376.73	22.661	0.63
120.00	Generic Square Platform with H	1	1.00	0.000	3790.00	49.300	1.00	6681.75	104.828	1.00
111.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3651.03	55.988	1.00
100.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3636.71	55.819	1.00
100.00	Quintel QS6656-5D	6	0.75	0.000	88.00	8.133	0.74	215.49	9.917	0.74
100.00	Antel BXA-70080/6CF__	3	0.75	0.000	18.00	5.836	0.72	98.41	7.358	0.72
100.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	146.82	5.681	0.61
100.00	Raycap RRFDC-6627-PF-48	1	0.75	0.000	32.00	4.056	1.00	113.32	4.929	1.00
100.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	125.22	2.453	0.50
100.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	106.90	2.453	0.50
100.00	Generic GPS	1	0.75	0.000	10.00	0.900	0.50	28.72	1.309	0.50
100.00	Kaelus KA-6030	2	0.75	0.000	17.60	0.963	0.50	32.69	1.381	0.50
78.10	Diamond X50A	2	1.00	0.000	2.30	1.120	1.00	3.21	2.239	1.00
78.00	Generic Round Side Arm	1	1.00	0.000	187.50	5.200	1.00	244.60	6.897	1.00
78.00	Generic Flat Stand-Off	1	1.00	0.000	187.50	6.300	1.00	270.71	8.246	1.00
64.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	99.56	2.525	0.50
64.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	113.31	2.525	0.50
64.00	Raycap RDIDC-9181-PF-48	1	0.75	0.000	21.90	2.020	1.00	59.53	2.591	1.00
64.00	Commscope FFFV-65B-R2	3	0.75	0.000	70.80	12.271	0.64	224.48	13.986	0.64
64.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3490.54	42.149	1.00
Totals	Row Count: 35	85			18,790.60			32,960.16		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 0.00

Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/Row	Distance Between Rows (in)	Distance Between Cols (in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind	Carrier
0.00	131.00	6	1 1/4" Coax	1.55	0.63	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	131.00	4	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	131.00	4	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	131.00	2	0.88" (22.4mm) 8 AWG	0.88	0.68	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	131.00	2	0.40" (10.3mm) Fiber	0.4	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	131.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 0.00

Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/Row	Distance Between Rows(in)	Distance Between Cols(in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind	Carrier
0.00	120.00	4	1.99" (50.7mm) Hybrid	1.99	1.9	N	4	1	1	270	1	Y	T-MOBILE
0.00	100.00	6	7/8" Coax	1.09	0.33	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	100.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	100.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	100.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	78.00	2	0.405" (10.3mm) Coax	0.41	0.11	N	0	0	0	0	0	N	SENET, INC.
0.00	64.00	1	1.41" (35.8mm) Hybrid	1.41	1.66	N	1	1	1	90	1	Y	DISH WIRELESS L.L.C.
0.00	63.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	180	0	Y	
0.00	63.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	0	0	Y	
0.00	63.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	90	0	Y	
0.00	63.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	270	0	Y	

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Bracket Type	Spacing (in)	Length (in)	Connectors	Continuation?
0.00	55.68	4	SOL #20 All Thread Bar	80	2.19	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	Y

SEGMENT PROPERTIES

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	24.88	102.86	77.6	683.1	0.0	0.0	19.640	6,615.40	0.0
5.00		0.4375	43.939	61.282	14,801.9	24.23	100.43	78.3	650.8	0.0	1,055.4	19.640	6,347.80	334.0
10.00		0.4375	42.877	59.787	13,744.6	23.58	98.00	79	619.3	0.0	1,029.9	19.640	6,085.70	334.0
15.00		0.4375	41.816	58.291	12,738.8	22.93	95.58	79.7	588.5	0.0	1,004.5	19.640	5,829.10	334.0
20.00		0.4375	40.754	56.796	11,783.3	22.28	93.15	80.4	558.6	0.0	979.0	19.640	5,578.10	334.0
25.00		0.4375	39.693	55.300	10,876.9	21.63	90.73	81.1	529.4	0.0	953.6	19.640	5,332.60	334.0
30.00		0.4375	38.631	53.805	10,018.2	20.98	88.30	81.8	501.0	0.0	928.2	19.640	5,092.60	334.0
35.00		0.4375	37.570	52.310	9,205.90	20.33	85.87	81.9	473.4	0.0	902.7	19.640	4,858.20	334.0
40.00		0.4375	36.508	50.814	8,438.70	19.68	83.45	81.9	446.5	0.0	877.3	19.640	4,629.30	334.0
40.42	Bot - Section 2	0.4375	36.418	50.688	8,376.00	19.63	83.24	81.9	444.3	0.0	72.9	19.640	4,610.20	28.2
45.00		0.4375	35.447	49.319	7,715.40	19.03	81.02	81.9	420.5	0.0	1,462.0	19.640	4,563.10	305.8
45.58	Top - Section 1	0.3750	36.074	43.106	7,011.90	23.10	96.20	79.5	375.5	0.0	181.8	19.640	4,537.20	38.6
50.00		0.3750	35.135	41.973	6,473.10	22.43	93.69	80.3	355.9	0.0	640.1	19.640	4,341.40	295.4
55.00		0.3750	34.074	40.691	5,898.00	21.67	90.86	81.1	334.4	0.0	703.2	19.640	4,125.20	334.0
55.68	Reinf. Top	0.3750	33.929	40.517	5,822.50	21.56	90.48	81.2	331.5	0.0	94.0	19.640	4,096.20	45.4
60.00		0.3750	33.012	39.409	5,358.00	20.91	88.03	81.9	313.5	0.0	587.5			
64.00		0.3750	32.163	38.384	4,950.60	20.30	85.77	81.9	297.4	0.0	529.4			
65.00		0.3750	31.951	38.127	4,852.00	20.15	85.20	81.9	293.4	0.0	130.2			
70.00		0.3750	30.889	36.846	4,379.00	19.39	82.37	81.9	273.9	0.0	637.8			
75.00		0.3750	29.828	35.564	3,937.70	18.63	79.54	81.9	255.0	0.0	616.0			
78.00		0.3750	29.191	34.795	3,687.70	18.18	77.84	81.9	244.1	0.0	359.1			
78.10		0.3750	29.169	34.769	3,679.60	18.16	77.78	81.9	243.7	0.0	11.8			
80.00		0.3750	28.766	34.282	3,527.10	17.87	76.71	81.9	236.9	0.0	223.2			
80.92	Bot - Section 3	0.3750	28.570	34.045	3,454.40	17.73	76.19	81.9	233.6	0.0	107.5			
85.00		0.3750	27.705	33.000	3,146.10	17.12	73.88	81.9	219.4	0.0	781.8			
85.08	Top - Section 2	0.2500	28.188	22.490	2,240.70	27.53	112.75	74.7	153.6	0.0	14.2			
90.00		0.2500	27.143	21.649	1,998.50	26.41	108.57	75.9	142.2	0.0	369.8			
95.00		0.2500	26.082	20.794	1,771.00	25.27	104.33	77.1	131.2	0.0	361.1			
100.00		0.2500	25.020	19.940	1,561.60	24.14	100.08	78.4	120.6	0.0	346.5			
105.00		0.2500	23.959	19.085	1,369.30	23.00	95.83	79.6	110.4	0.0	332.0			
110.00		0.2500	22.897	18.231	1,193.50	21.86	91.59	80.9	100.7	0.0	317.4			
111.00		0.2500	22.685	18.060	1,160.20	21.63	90.74	81.1	98.8	0.0	61.7			
115.00		0.2500	21.836	17.376	1,033.40	20.72	87.34	81.9	91.4	0.0	241.2			
120.00		0.2500	20.774	16.522	888.30	19.59	83.10	81.9	82.6	0.0	288.4			
125.00		0.2500	19.713	15.667	757.50	18.45	78.85	81.9	74.2	0.0	273.8			
126.00	Top - Section 3	0.2500	19.500	15.496	733.00	18.22	78.00	81.9	72.6	0.0	53.0			

SEGMENT PROPERTIES

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
126.00	Bot - Section 4	0.3750	10.750	12.223	164.60	0.00	28.67	35	30.6	40.4				
128.00	Top - Section 4	0.3750	10.750	12.223	164.60	0.00	28.67	35	30.6	40.4	83.2			
128.00	Bot - Section 5	0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4				
129.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	41.6			
130.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	41.6			
131.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	41.6			
133.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	83.2			
135.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	83.2			
140.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	208.0			
142.00		0.3750	10.750	12.223	164.60	0.00	28.67	36	30.6	40.4	83.2			
Totals:											18,193.6	3,719.4		

CALCULATED FORCES

Load Case: 1.2D + 1.0W 118 mph Wind with No Ice 25 Iterations
 Gust Response Factor: 1.10
 Dead load Factor: 1.20
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.14	-36.19	0.00	-3,166.2	0.00	3,166.23	4,383.15	1,101.74	4,631.83	3,974.58	0	0	0.574
5.00	-53.99	-35.51	0.00	-2,985.3	0.00	2,985.28	4,317.85	1,075.50	4,413.87	3,821.19	0.11	-0.19	0.557
10.00	-51.88	-34.82	0.00	-2,807.7	0.00	2,807.73	4,250.64	1,049.26	4,201.16	3,669.01	0.41	-0.39	0.541
15.00	-49.81	-34.11	0.00	-2,633.6	0.00	2,633.62	4,181.52	1,023.01	3,993.70	3,518.15	0.93	-0.58	0.524
20.00	-47.77	-33.35	0.00	-2,463.1	0.00	2,463.08	4,110.49	996.77	3,791.49	3,368.74	1.64	-0.78	0.506
25.00	-45.77	-32.55	0.00	-2,296.3	0.00	2,296.32	4,037.56	970.52	3,594.54	3,220.91	2.57	-0.97	0.488
30.00	-43.80	-31.83	0.00	-2,133.6	0.00	2,133.57	3,962.71	944.28	3,402.84	3,074.78	3.69	-1.17	0.469
35.00	-41.87	-31.05	0.00	-1,974.4	0.00	1,974.44	3,855.75	918.04	3,216.39	2,907.69	5.02	-1.36	0.454
40.00	-40.02	-30.52	0.00	-1,819.2	0.00	1,819.21	3,745.52	891.79	3,035.19	2,742.88	6.55	-1.55	0.437
40.42	-39.83	-30.20	0.00	-1,806.3	0.00	1,806.34	3,736.22	889.58	3,020.15	2,729.20	6.69	-1.57	0.436
45.00	-37.34	-29.67	0.00	-1,668.1	0.00	1,668.09	3,635.30	865.55	2,859.25	2,582.88	8.28	-1.74	0.414
45.58	-37.00	-29.33	0.00	-1,650.9	0.00	1,650.94	3,085.21	756.51	2,547.97	2,239.64	8.5	-1.77	0.457
50.00	-35.50	-28.56	0.00	-1,521.3	0.00	1,521.26	3,031.72	736.62	2,415.77	2,142.33	10.21	-1.93	0.435
55.00	-33.86	-27.99	0.00	-1,378.5	0.00	1,378.48	2,969.43	714.13	2,270.53	2,033.56	12.34	-2.12	0.408
55.68	-33.61	-27.65	0.00	-1,359.4	0.00	1,359.45	2,960.81	711.07	2,251.12	2,018.87	12.64	-2.15	0.404
55.68	-33.61	-27.65	0.00	-1,359.4	0.00	1,359.45	2,960.81	711.07	2,251.12	2,018.87	12.64	-2.15	0.686
60.00	-32.53	-26.99	0.00	-1,240.0	0.00	1,240.00	2,904.85	691.63	2,129.79	1,925.98	14.66	-2.31	0.657
64.00	-27.90	-24.21	0.00	-1,132.1	0.00	1,132.06	2,829.27	673.64	2,020.44	1,826.50	16.7	-2.56	0.631
65.00	-27.63	-23.96	0.00	-1,107.8	0.00	1,107.84	2,810.37	669.14	1,993.56	1,802.04	17.25	-2.63	0.626
70.00	-26.53	-23.50	0.00	-988.0	0.00	988.04	2,715.89	646.64	1,861.82	1,682.23	20.16	-2.93	0.598
75.00	-25.48	-23.12	0.00	-870.5	0.00	870.54	2,621.41	624.15	1,734.59	1,566.54	23.4	-3.23	0.567
78.00	-24.46	-22.42	0.00	-801.2	0.00	801.18	2,564.73	610.65	1,660.42	1,499.10	25.49	-3.42	0.545
78.10	-24.43	-22.24	0.00	-798.9	0.00	798.94	2,562.84	610.20	1,657.97	1,496.88	25.56	-3.42	0.545
80.00	-24.05	-22.10	0.00	-756.7	0.00	756.68	2,526.94	601.65	1,611.87	1,454.97	26.94	-3.54	0.531
80.92	-23.83	-21.89	0.00	-736.2	0.00	736.25	2,509.47	597.49	1,589.67	1,434.80	27.63	-3.59	0.524
85.00	-22.68	-21.64	0.00	-647.0	0.00	647.05	2,432.46	579.16	1,493.64	1,347.52	30.8	-3.82	0.491
85.08	-22.62	-21.43	0.00	-645.4	0.00	645.41	1,511.75	394.71	1,040.29	860.19	30.86	-3.83	0.768
90.00	-21.87	-21.00	0.00	-539.9	0.00	539.86	1,478.99	379.94	963.92	809.78	34.95	-4.09	0.685
95.00	-21.12	-20.57	0.00	-434.9	0.00	434.87	1,443.84	364.94	889.35	759.04	39.42	-4.44	0.591
100.00	-16.16	-15.34	0.00	-332.0	0.00	332.01	1,406.77	349.94	817.78	708.87	44.24	-4.75	0.482
105.00	-15.55	-14.88	0.00	-255.3	0.00	255.30	1,367.80	334.95	749.21	659.40	49.35	-5.02	0.401
110.00	-14.98	-14.58	0.00	-180.9	0.00	180.90	1,326.92	319.95	683.65	610.75	54.73	-5.24	0.310
111.00	-12.07	-12.04	0.00	-166.3	0.00	166.32	1,318.52	316.95	670.90	601.13	55.83	-5.28	0.287
115.00	-11.65	-11.59	0.00	-118.2	0.00	118.18	1,280.81	304.95	621.09	561.60	60.31	-5.42	0.221
120.00	-5.65	-5.54	0.00	-60.2	0.00	60.22	1,217.82	289.96	561.53	507.42	66.06	-5.55	0.124
125.00	-5.21	-5.25	0.00	-32.5	0.00	32.54	1,154.84	274.96	504.97	455.99	71.9	-5.62	0.076
126.00	-5.12	-5.18	0.00	-27.3	0.00	27.29	1,142.24	271.96	494.02	446.03	73.07	-5.63	0.066
126.00	-5.12	-5.18	0.00	-27.3	0.00	27.29	385.02	115.51	105.36	106.00	73.07	-5.63	0.273
128.00	-4.97	-5.12	0.00	-16.9	0.00	16.94	396.02	118.81	108.37	109.03	75.43	-5.65	0.170
128.00	-4.97	-5.12	0.00	-16.9	0.00	16.94	385.02	115.51	105.36	106.00	75.43	-5.65	0.175
129.00	-4.68	-4.77	0.00	-11.8	0.00	11.81	396.02	118.81	108.37	109.03	76.62	-5.67	0.122

CALCULATED FORCES

130.00	-4.61	-4.74	0.00	-7.0	0.00	7.04	396.02	118.81	108.37	109.03	77.81	-5.69	0.078
131.00	-0.79	-0.60	0.00	-2.3	0.00	2.30	396.02	118.81	108.37	109.03	79	-5.7	0.023
133.00	-0.43	-0.21	0.00	-1.1	0.00	1.10	396.02	118.81	108.37	109.03	81.38	-5.7	0.011
135.00	-0.34	-0.13	0.00	-0.7	0.00	0.69	396.02	118.81	108.37	109.03	83.77	-5.71	0.007
140.00	-0.10	-0.03	0.00	-0.1	0.00	0.06	396.02	118.81	108.37	109.03	89.73	-5.71	0.001
142.00	0.00	-0.02	0.00	0.0	0.00	0.00	396.02	118.81	108.37	109.03	92.12	-5.71	0.000

CALCULATED FORCES

Load Case: 0.9D + 1.0W

118 mph Wind with No Ice (Reduced DL)

25 Iterations

Gust Response Factor: 1.10
 Dead load Factor: 0.90
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.09	-36.17	0.00	-3,127.3	0.00	3,127.33	4,383.15	1,101.74	4,631.83	3,974.58	0	0	0.564
5.00	-40.45	-35.44	0.00	-2,946.5	0.00	2,946.51	4,317.85	1,075.50	4,413.87	3,821.19	0.1	-0.19	0.548
10.00	-38.84	-34.71	0.00	-2,769.3	0.00	2,769.31	4,250.64	1,049.26	4,201.16	3,669.01	0.41	-0.38	0.531
15.00	-37.26	-33.95	0.00	-2,595.8	0.00	2,595.78	4,181.52	1,023.01	3,993.70	3,518.15	0.92	-0.58	0.514
20.00	-35.71	-33.16	0.00	-2,426.0	0.00	2,426.02	4,110.49	996.77	3,791.49	3,368.74	1.62	-0.77	0.496
25.00	-34.19	-32.32	0.00	-2,260.2	0.00	2,260.23	4,037.56	970.52	3,594.54	3,220.91	2.53	-0.96	0.478
30.00	-32.69	-31.57	0.00	-2,098.6	0.00	2,098.61	3,962.71	944.28	3,402.84	3,074.78	3.64	-1.15	0.460
35.00	-31.23	-30.76	0.00	-1,940.8	0.00	1,940.76	3,855.75	918.04	3,216.39	2,907.69	4.95	-1.34	0.444
40.00	-29.83	-30.23	0.00	-1,787.0	0.00	1,786.95	3,745.52	891.79	3,035.19	2,742.88	6.46	-1.53	0.428
40.42	-29.67	-29.89	0.00	-1,774.2	0.00	1,774.20	3,736.22	889.58	3,020.15	2,729.20	6.6	-1.55	0.426
45.00	-27.80	-29.36	0.00	-1,637.4	0.00	1,637.35	3,635.30	865.55	2,859.25	2,582.88	8.16	-1.72	0.405
45.58	-27.54	-29.01	0.00	-1,620.4	0.00	1,620.38	3,085.21	756.51	2,547.97	2,239.64	8.37	-1.74	0.447
50.00	-26.40	-28.22	0.00	-1,492.1	0.00	1,492.12	3,031.72	736.62	2,415.77	2,142.33	10.06	-1.9	0.424
55.00	-25.16	-27.65	0.00	-1,351.0	0.00	1,351.03	2,969.43	714.13	2,270.53	2,033.56	12.15	-2.09	0.398
55.68	-24.97	-27.30	0.00	-1,332.2	0.00	1,332.23	2,960.81	711.07	2,251.12	2,018.87	12.45	-2.11	0.395
55.68	-24.97	-27.30	0.00	-1,332.2	0.00	1,332.23	2,960.81	711.07	2,251.12	2,018.87	12.45	-2.11	0.670
60.00	-24.14	-26.61	0.00	-1,214.3	0.00	1,214.31	2,904.85	691.63	2,129.79	1,925.98	14.44	-2.27	0.640
64.00	-20.68	-23.87	0.00	-1,107.9	0.00	1,107.86	2,829.27	673.64	2,020.44	1,826.50	16.45	-2.52	0.615
65.00	-20.47	-23.59	0.00	-1,084.0	0.00	1,083.99	2,810.37	669.14	1,993.56	1,802.04	16.98	-2.58	0.610
70.00	-19.62	-23.11	0.00	-966.0	0.00	966.02	2,715.89	646.64	1,861.82	1,682.23	19.85	-2.88	0.583
75.00	-18.82	-22.71	0.00	-850.5	0.00	850.48	2,621.41	624.15	1,734.59	1,566.54	23.03	-3.18	0.551
78.00	-18.06	-22.02	0.00	-782.3	0.00	782.34	2,564.73	610.65	1,660.42	1,499.10	25.08	-3.35	0.530
78.10	-18.03	-21.83	0.00	-780.1	0.00	780.14	2,562.84	610.20	1,657.97	1,496.88	25.15	-3.36	0.529
80.00	-17.74	-21.69	0.00	-738.7	0.00	738.67	2,526.94	601.65	1,611.87	1,454.97	26.51	-3.47	0.516
80.92	-17.57	-21.46	0.00	-718.6	0.00	718.62	2,509.47	597.49	1,589.67	1,434.80	27.19	-3.53	0.509
85.00	-16.70	-21.22	0.00	-631.2	0.00	631.17	2,432.46	579.16	1,493.64	1,347.52	30.29	-3.75	0.477
85.08	-16.65	-21.00	0.00	-629.6	0.00	629.56	1,511.75	394.71	1,040.29	860.19	30.35	-3.76	0.746
90.00	-16.07	-20.54	0.00	-526.2	0.00	526.17	1,478.99	379.94	963.92	809.78	34.36	-4.01	0.664
95.00	-15.49	-20.09	0.00	-423.5	0.00	423.47	1,443.84	364.94	889.35	759.04	38.75	-4.35	0.572
100.00	-11.85	-14.95	0.00	-323.0	0.00	323.01	1,406.77	349.94	817.78	708.87	43.47	-4.65	0.466
105.00	-11.39	-14.48	0.00	-248.2	0.00	248.25	1,367.80	334.95	749.21	659.40	48.48	-4.91	0.387
110.00	-10.96	-14.18	0.00	-175.8	0.00	175.84	1,326.92	319.95	683.65	610.75	53.74	-5.13	0.298
111.00	-8.82	-11.71	0.00	-161.7	0.00	161.66	1,318.52	316.95	670.90	601.13	54.82	-5.17	0.277
115.00	-8.51	-11.27	0.00	-114.8	0.00	114.81	1,280.81	304.95	621.09	561.60	59.21	-5.31	0.212
120.00	-4.13	-5.38	0.00	-58.5	0.00	58.46	1,217.82	289.96	561.53	507.42	64.83	-5.43	0.119
125.00	-3.80	-5.10	0.00	-31.6	0.00	31.58	1,154.84	274.96	504.97	455.99	70.55	-5.5	0.073
126.00	-3.74	-5.03	0.00	-26.5	0.00	26.47	1,142.24	271.96	494.02	446.03	71.7	-5.51	0.063
126.00	-3.74	-5.03	0.00	-26.5	0.00	26.47	385.02	115.51	105.36	106.00	71.7	-5.51	0.261
128.00	-3.62	-4.98	0.00	-16.4	0.00	16.41	396.02	118.81	108.37	109.03	74.01	-5.53	0.161
128.00	-3.62	-4.98	0.00	-16.4	0.00	16.41	385.02	115.51	105.36	106.00	74.01	-5.53	0.166
129.00	-3.41	-4.64	0.00	-11.4	0.00	11.43	396.02	118.81	108.37	109.03	75.17	-5.55	0.115
130.00	-3.36	-4.61	0.00	-6.8	0.00	6.79	396.02	118.81	108.37	109.03	76.33	-5.57	0.072
131.00	-0.58	-0.58	0.00	-2.2	0.00	2.18	396.02	118.81	108.37	109.03	77.5	-5.57	0.021
133.00	-0.32	-0.19	0.00	-1.0	0.00	1.03	396.02	118.81	108.37	109.03	79.83	-5.58	0.010
135.00	-0.25	-0.12	0.00	-0.6	0.00	0.64	396.02	118.81	108.37	109.03	82.17	-5.58	0.006
140.00	-0.07	-0.03	0.00	-0.1	0.00	0.06	396.02	118.81	108.37	109.03	88.01	-5.59	0.001
142.00	0.00	-0.02	0.00	0.0	0.00	0.00	396.02	118.81	108.37	109.03	90.34	-5.59	0.000

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi													50 mph Wind with 1" Radial Ice		25 Iterations	
Gust Response Factor:		1.10		Ice Dead Load Factor			1.00		Ice Importance Factor				1.00			
Dead Load Factor:		1.20														
Wind Load Factor:		1.00														
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio			
0.00	-74.97	-8.10	0.00	-791.0	0.00	791.01	4,383.15	1,101.74	4,631.83	3,974.58	0	0	0.154			
5.00	-72.63	-8.02	0.00	-750.5	0.00	750.52	4,317.85	1,075.50	4,413.87	3,821.19	0.03	-0.05	0.150			
10.00	-70.28	-7.95	0.00	-710.4	0.00	710.41	4,250.64	1,049.26	4,201.16	3,669.01	0.1	-0.1	0.147			
15.00	-67.95	-7.87	0.00	-670.7	0.00	670.66	4,181.52	1,023.01	3,993.70	3,518.15	0.23	-0.15	0.143			
20.00	-65.65	-7.79	0.00	-631.3	0.00	631.29	4,110.49	996.77	3,791.49	3,368.74	0.41	-0.2	0.139			
25.00	-63.38	-7.70	0.00	-592.3	0.00	592.33	4,037.56	970.52	3,594.54	3,220.91	0.65	-0.25	0.135			
30.00	-61.14	-7.61	0.00	-553.8	0.00	553.82	3,962.71	944.28	3,402.84	3,074.78	0.93	-0.3	0.131			
35.00	-58.92	-7.51	0.00	-515.8	0.00	515.78	3,855.75	918.04	3,216.39	2,907.69	1.27	-0.35	0.127			
40.00	-56.75	-7.44	0.00	-478.2	0.00	478.24	3,745.52	891.79	3,035.19	2,742.88	1.66	-0.4	0.124			
40.42	-56.56	-7.40	0.00	-475.1	0.00	475.10	3,736.22	889.58	3,020.15	2,729.20	1.7	-0.4	0.123			
45.00	-53.78	-7.33	0.00	-441.2	0.00	441.24	3,635.30	865.55	2,859.25	2,582.88	2.11	-0.45	0.118			
45.58	-53.43	-7.27	0.00	-437.0	0.00	437.01	3,085.21	756.51	2,547.97	2,239.64	2.16	-0.45	0.130			
50.00	-51.66	-7.17	0.00	-404.8	0.00	404.84	3,031.72	736.62	2,415.77	2,142.33	2.61	-0.5	0.125			
55.00	-49.70	-7.09	0.00	-369.0	0.00	369.01	2,969.43	714.13	2,270.53	2,033.56	3.15	-0.55	0.118			
55.68	-49.43	-7.04	0.00	-364.2	0.00	364.18	2,960.81	711.07	2,251.12	2,018.87	3.23	-0.56	0.117			
55.68	-49.43	-7.04	0.00	-364.2	0.00	364.18	2,960.81	711.07	2,251.12	2,018.87	3.23	-0.56	0.197			
60.00	-48.11	-6.96	0.00	-333.8	0.00	333.77	2,904.85	691.63	2,129.79	1,925.98	3.76	-0.6	0.190			
64.00	-41.85	-6.31	0.00	-305.9	0.00	305.94	2,829.27	673.64	2,020.44	1,826.50	4.29	-0.67	0.182			
65.00	-41.59	-6.26	0.00	-299.6	0.00	299.64	2,810.37	669.14	1,993.56	1,802.04	4.43	-0.68	0.181			
70.00	-40.30	-6.17	0.00	-268.3	0.00	268.33	2,715.89	646.64	1,861.82	1,682.23	5.19	-0.77	0.174			
75.00	-39.05	-6.09	0.00	-237.5	0.00	237.48	2,621.41	624.15	1,734.59	1,566.54	6.04	-0.85	0.167			
78.00	-37.75	-5.93	0.00	-219.2	0.00	219.21	2,564.73	610.65	1,660.42	1,499.10	6.59	-0.9	0.161			
78.10	-37.72	-5.87	0.00	-218.6	0.00	218.62	2,562.84	610.20	1,657.97	1,496.88	6.61	-0.9	0.161			
80.00	-37.26	-5.85	0.00	-207.5	0.00	207.46	2,526.94	601.65	1,611.87	1,454.97	6.97	-0.93	0.157			
80.92	-37.04	-5.80	0.00	-202.1	0.00	202.06	2,509.47	597.49	1,589.67	1,434.80	7.16	-0.95	0.156			
85.00	-35.69	-5.75	0.00	-178.4	0.00	178.41	2,432.46	579.16	1,493.64	1,347.52	7.99	-1.01	0.147			
85.08	-35.66	-5.71	0.00	-178.0	0.00	177.97	1,511.75	394.71	1,040.29	860.19	8.01	-1.01	0.231			
90.00	-34.73	-5.62	0.00	-149.9	0.00	149.88	1,478.99	379.94	963.92	809.78	9.09	-1.09	0.209			
95.00	-33.80	-5.53	0.00	-121.8	0.00	121.79	1,443.84	364.94	889.35	759.04	10.28	-1.18	0.184			
100.00	-26.19	-4.28	0.00	-94.1	0.00	94.14	1,406.77	349.94	817.78	708.87	11.57	-1.27	0.152			
105.00	-25.36	-4.17	0.00	-72.8	0.00	72.77	1,367.80	334.95	749.21	659.40	12.94	-1.35	0.129			
110.00	-24.56	-4.10	0.00	-51.9	0.00	51.91	1,326.92	319.95	683.65	610.75	14.39	-1.41	0.104			
111.00	-20.52	-3.47	0.00	-47.8	0.00	47.81	1,318.52	316.95	670.90	601.13	14.68	-1.42	0.095			
115.00	-19.90	-3.37	0.00	-33.9	0.00	33.92	1,280.81	304.95	621.09	561.60	15.89	-1.46	0.076			
120.00	-9.73	-1.54	0.00	-17.1	0.00	17.06	1,217.82	289.96	561.53	507.42	17.45	-1.5	0.042			
125.00	-9.10	-1.46	0.00	-9.4	0.00	9.37	1,154.84	274.96	504.97	455.99	19.03	-1.52	0.028			
126.00	-8.98	-1.44	0.00	-7.9	0.00	7.90	1,142.24	271.96	494.02	446.03	19.34	-1.52	0.026			
126.00	-8.98	-1.44	0.00	-7.9	0.00	7.90	385.02	115.51	105.36	106.00	19.34	-1.52	0.098			
128.00	-8.79	-1.42	0.00	-5.0	0.00	5.02	396.02	118.81	108.37	109.03	19.98	-1.53	0.068			
128.00	-8.79	-1.42	0.00	-5.0	0.00	5.02	385.02	115.51	105.36	106.00	19.98	-1.53	0.070			
129.00	-8.31	-1.33	0.00	-3.6	0.00	3.60	396.02	118.81	108.37	109.03	20.3	-1.53	0.054			
130.00	-8.22	-1.32	0.00	-2.3	0.00	2.28	396.02	118.81	108.37	109.03	20.63	-1.54	0.042			
131.00	-1.18	-0.21	0.00	-1.0	0.00	0.96	396.02	118.81	108.37	109.03	20.95	-1.54	0.012			
133.00	-0.60	-0.10	0.00	-0.5	0.00	0.54	396.02	118.81	108.37	109.03	21.59	-1.54	0.006			
135.00	-0.47	-0.06	0.00	-0.3	0.00	0.34	396.02	118.81	108.37	109.03	22.24	-1.55	0.004			
140.00	-0.13	-0.01	0.00	-0.0	0.00	0.03	396.02	118.81	108.37	109.03	23.86	-1.55	0.001			
142.00	0.00	-0.01	0.00	0.0	0.00	0.00	396.02	118.81	108.37	109.03	24.51	-1.55	0.000			

CALCULATED FORCES

Load Case: 1.0D + 1.0W												60 mph Wind with No Ice		24 Iterations
Gust Response Factor:		1.10												
Dead load Factor:		1.00												
Wind Load Factor:		1.00												
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio	
0.00	-46.83	-8.40	0.00	-731.1	0.00	731.08	4,383.15	1,101.74	4,631.83	3,974.58	0	0	0.138	
5.00	-45.14	-8.24	0.00	-689.1	0.00	689.08	4,317.85	1,075.50	4,413.87	3,821.19	0.02	-0.04	0.134	
10.00	-43.47	-8.07	0.00	-647.9	0.00	647.90	4,250.64	1,049.26	4,201.16	3,669.01	0.1	-0.09	0.130	
15.00	-41.82	-7.90	0.00	-607.6	0.00	607.55	4,181.52	1,023.01	3,993.70	3,518.15	0.21	-0.13	0.126	
20.00	-40.20	-7.72	0.00	-568.0	0.00	568.05	4,110.49	996.77	3,791.49	3,368.74	0.38	-0.18	0.122	
25.00	-38.61	-7.53	0.00	-529.5	0.00	529.46	4,037.56	970.52	3,594.54	3,220.91	0.59	-0.22	0.117	
30.00	-37.04	-7.36	0.00	-491.8	0.00	491.81	3,962.71	944.28	3,402.84	3,074.78	0.85	-0.27	0.113	
35.00	-35.50	-7.17	0.00	-455.0	0.00	455.02	3,855.75	918.04	3,216.39	2,907.69	1.16	-0.31	0.109	
40.00	-33.99	-7.05	0.00	-419.2	0.00	419.15	3,745.52	891.79	3,035.19	2,742.88	1.51	-0.36	0.105	
40.42	-33.86	-6.97	0.00	-416.2	0.00	416.18	3,736.22	889.58	3,020.15	2,729.20	1.54	-0.36	0.105	
45.00	-31.81	-6.85	0.00	-384.2	0.00	384.25	3,635.30	865.55	2,859.25	2,582.88	1.91	-0.4	0.100	
45.58	-31.56	-6.77	0.00	-380.3	0.00	380.29	3,085.21	756.51	2,547.97	2,239.64	1.96	-0.41	0.110	
50.00	-30.35	-6.59	0.00	-350.4	0.00	350.36	3,031.72	736.62	2,415.77	2,142.33	2.36	-0.45	0.105	
55.00	-29.01	-6.46	0.00	-317.4	0.00	317.42	2,969.43	714.13	2,270.53	2,033.56	2.85	-0.49	0.099	
55.68	-28.83	-6.38	0.00	-313.0	0.00	313.03	2,960.81	711.07	2,251.12	2,018.87	2.92	-0.5	0.098	
55.68	-28.83	-6.38	0.00	-313.0	0.00	313.03	2,960.81	711.07	2,251.12	2,018.87	2.92	-0.5	0.165	
60.00	-27.98	-6.22	0.00	-285.5	0.00	285.49	2,904.85	691.63	2,129.79	1,925.98	3.38	-0.53	0.158	
64.00	-24.08	-5.58	0.00	-260.6	0.00	260.61	2,829.27	673.64	2,020.44	1,826.50	3.85	-0.59	0.151	
65.00	-23.91	-5.52	0.00	-255.0	0.00	255.04	2,810.37	669.14	1,993.56	1,802.04	3.98	-0.61	0.150	
70.00	-23.07	-5.41	0.00	-227.4	0.00	227.44	2,715.89	646.64	1,861.82	1,682.23	4.65	-0.68	0.144	
75.00	-22.25	-5.32	0.00	-200.4	0.00	200.40	2,621.41	624.15	1,734.59	1,566.54	5.4	-0.75	0.136	
78.00	-21.40	-5.16	0.00	-184.4	0.00	184.44	2,564.73	610.65	1,660.42	1,499.10	5.88	-0.79	0.131	
78.10	-21.37	-5.12	0.00	-183.9	0.00	183.92	2,562.84	610.20	1,657.97	1,496.88	5.89	-0.79	0.131	
80.00	-21.07	-5.08	0.00	-174.2	0.00	174.20	2,526.94	601.65	1,611.87	1,454.97	6.21	-0.81	0.128	
80.92	-20.93	-5.03	0.00	-169.5	0.00	169.50	2,509.47	597.49	1,589.67	1,434.80	6.37	-0.83	0.127	
85.00	-19.98	-4.98	0.00	-149.0	0.00	148.99	2,432.46	579.16	1,493.64	1,347.52	7.1	-0.88	0.119	
85.08	-19.97	-4.93	0.00	-148.6	0.00	148.61	1,511.75	394.71	1,040.29	860.19	7.12	-0.88	0.186	
90.00	-19.40	-4.83	0.00	-124.3	0.00	124.34	1,478.99	379.94	963.92	809.78	8.06	-0.94	0.167	
95.00	-18.83	-4.73	0.00	-100.2	0.00	100.22	1,443.84	364.94	889.35	759.04	9.09	-1.02	0.145	
100.00	-14.44	-3.53	0.00	-76.6	0.00	76.59	1,406.77	349.94	817.78	708.87	10.2	-1.09	0.118	
105.00	-13.95	-3.42	0.00	-59.0	0.00	58.95	1,367.80	334.95	749.21	659.40	11.38	-1.16	0.100	
110.00	-13.48	-3.35	0.00	-41.9	0.00	41.86	1,326.92	319.95	683.65	610.75	12.62	-1.21	0.079	
111.00	-10.90	-2.77	0.00	-38.5	0.00	38.51	1,318.52	316.95	670.90	601.13	12.88	-1.22	0.072	
115.00	-10.53	-2.67	0.00	-27.4	0.00	27.42	1,280.81	304.95	621.09	561.60	13.91	-1.25	0.057	
120.00	-5.11	-1.29	0.00	-14.1	0.00	14.07	1,217.82	289.96	561.53	507.42	15.24	-1.28	0.032	
125.00	-4.72	-1.22	0.00	-7.6	0.00	7.64	1,154.84	274.96	504.97	455.99	16.59	-1.3	0.021	
126.00	-4.64	-1.20	0.00	-6.4	0.00	6.42	1,142.24	271.96	494.02	446.03	16.86	-1.3	0.018	
126.00	-4.64	-1.20	0.00	-6.4	0.00	6.42	385.02	115.51	105.36	106.00	16.86	-1.3	0.073	
128.00	-4.51	-1.19	0.00	-4.0	0.00	4.01	396.02	118.81	108.37	109.03	17.4	-1.3	0.048	
128.00	-4.51	-1.19	0.00	-4.0	0.00	4.01	385.02	115.51	105.36	106.00	17.4	-1.3	0.050	
129.00	-4.25	-1.11	0.00	-2.8	0.00	2.82	396.02	118.81	108.37	109.03	17.68	-1.31	0.037	
130.00	-4.19	-1.10	0.00	-1.7	0.00	1.71	396.02	118.81	108.37	109.03	17.95	-1.31	0.026	
131.00	-0.70	-0.15	0.00	-0.6	0.00	0.61	396.02	118.81	108.37	109.03	18.23	-1.31	0.007	
133.00	-0.37	-0.06	0.00	-0.3	0.00	0.31	396.02	118.81	108.37	109.03	18.78	-1.32	0.004	
135.00	-0.29	-0.03	0.00	-0.2	0.00	0.19	396.02	118.81	108.37	109.03	19.33	-1.32	0.002	
140.00	-0.08	-0.01	0.00	-0.0	0.00	0.02	396.02	118.81	108.37	109.03	20.71	-1.32	0.000	
142.00	0.00	-0.01	0.00	0.0	0.00	0.00	396.02	118.81	108.37	109.03	21.26	-1.32	0.000	

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.226
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.055
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.241
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.088
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_s :	0.030
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	2.380
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	1.940
Total Unfactored Dead Load:	46.840 k
Seismic Base Shear (E):	1.410 k

SEISMIC FORCES

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
43	141	83	1,218	0.005	7	104
42	137.5	208	2,900	0.012	17	260
41	134	83	1,103	0.004	6	104
40	132	83	1,072	0.004	6	104
39	130.5	65	821	0.003	5	81
38	129.5	65	809	0.003	5	81
37	128.5	65	797	0.003	5	81
36	126.9999	130	1,557	0.006	9	163
35	125.5	77	894	0.004	5	96
34	122.5	392	4,364	0.018	25	489
33	117.5	444	4,566	0.019	26	554
32	113	366	3,486	0.014	20	457
31	110.5	93	848	0.004	5	116
30	107.5	473	4,094	0.017	23	591
29	102.5	488	3,848	0.016	22	609
28	97.5	544	3,896	0.016	22	679
27	92.5	559	3,612	0.015	21	697
26	87.5377	564	3,279	0.013	19	704
25	85.0377	17	95	0.000	1	22
24	82.9622	943	4,937	0.020	28	1,177
23	80.4622	144	711	0.003	4	180
22	79.05	298	1,422	0.006	8	372
21	78.05	16	73	0.000	0	20
20	76.5	478	2,140	0.009	12	597
19	72.5	815	3,285	0.013	19	1,017
18	67.5	836	2,937	0.012	17	1,044
17	64.5	170	546	0.002	3	212
16	62	751	2,237	0.009	13	937
15	57.84	847	2,205	0.009	13	1,057
14	55.34	180	431	0.002	2	225
13	52.5	1,338	2,886	0.012	17	1,670
12	47.7891	1,201	2,160	0.009	12	1,499
11	45.2891	255	413	0.002	2	318
10	42.7109	2,043	2,955	0.012	17	2,550
9	40.2109	126	163	0.001	1	158
8	37.5	1,512	1,699	0.007	10	1,887
7	32.5	1,537	1,309	0.005	8	1,919
6	27.5	1,563	963	0.004	6	1,950

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
5	22.5	1,588	663	0.003	4	1,982
4	17.5	1,613	414	0.002	2	2,014
3	12.5	1,639	219	0.001	1	2,046
2	7.5	1,664	83	0.000	0	2,077
1	2.5	1,690	10	0.000	0	2,109
Ericsson Air 6449 B77D	133	245	3,200	0.013	18	306
Raycap DC6-48-60-18-8F ("Squid")	131	38	480	0.002	3	47
Ericsson RRUS 8843 B2, B66A	131	216	2,742	0.011	16	270
Ericsson RRUS 4478 B14	131	180	2,281	0.009	13	224
Ericsson RRUS 4449 B5, B12	131	213	2,704	0.011	16	266
Ericsson RRUS 32 B30	131	180	2,285	0.009	13	225
Raycap DC6-48-60-0-8C	131	16	203	0.001	1	20
CCI DMP65R-BU6EA-K	131	311	3,953	0.016	23	389
CCI OPA65R-BU6D	131	190	2,407	0.010	14	237
Generic Round Sector Frame	131	2,100	26,659	0.109	153	2,621
Ericsson AIR 6419 B77G	129	198	2,443	0.010	14	248
Ericsson 4460 BAND 2/25	120	327	3,502	0.014	20	408
Ericsson 4480 BAND 71	120	243	2,603	0.011	15	303
Ericsson AIR 6419 B41	120	206	2,201	0.009	13	257
Commscope VV-65A-R1	120	71	765	0.003	4	89
RFS APXVAALL24 43-U-NA20	120	368	3,946	0.016	23	460
Generic Square Platform with Handrails	120	3,790	40,591	0.166	233	4,731
Generic Flat Platform with Handrails	111	2,500	23,020	0.094	132	3,121
Generic Flat Platform with Handrails	100	2,500	18,805	0.077	108	3,121
Generic GPS	100	10	75	0.000	0	12
Kaelus KA-6030	100	35	265	0.001	2	44
Samsung B5/B13 RRH-BR04C	100	211	1,586	0.006	9	263
Samsung B2/B66A RRH-BR049	100	253	1,905	0.008	11	316
Raycap RRFDC-6627-PF-48	100	32	241	0.001	1	40
Samsung MT6407-77A	100	245	1,841	0.008	11	306
Intel BXA-70080/6CF__	100	54	406	0.002	2	67
Quintel QS6656-5D	100	528	3,972	0.016	23	659
Diamond X50A	78.1	5	21	0.000	0	6
Generic Round Side Arm	78	188	871	0.004	5	234
Generic Flat Stand-Off	78	188	871	0.004	5	234
Fujitsu TA08025-B604	64	192	607	0.002	3	239
Fujitsu TA08025-B605	64	225	713	0.003	4	281
Raycap RDIDC-9181-PF-48	64	22	69	0.000	0	27
Commscope FFVV-65B-R2	64	212	673	0.003	4	265
Generic Round Platform with Handrails	64	2,500	7,918	0.032	45	3,121
Totals:		46,837	244,943	1.000	1,405	58,462

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
43	141	83	1,218	0.005	7	71
42	137.5	208	2,900	0.012	17	177
41	134	83	1,103	0.004	6	71
40	132	83	1,072	0.004	6	71
39	130.5	65	821	0.003	5	55
38	129.5	65	809	0.003	5	55
37	128.5	65	797	0.003	5	55
36	126.9999	130	1,557	0.006	9	111
35	125.5	77	894	0.004	5	65
34	122.5	392	4,364	0.018	25	334
33	117.5	444	4,566	0.019	26	378
32	113	366	3,486	0.014	20	312
31	110.5	93	848	0.004	5	79
30	107.5	473	4,094	0.017	23	403
29	102.5	488	3,848	0.016	22	415

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
28	97.5	544	3,896	0.016	22	463
27	92.5	559	3,612	0.015	21	476
26	87.5377	564	3,279	0.013	19	481
25	85.0377	17	95	0.000	1	15
24	82.9622	943	4,937	0.020	28	803
23	80.4622	144	711	0.003	4	123
22	79.05	298	1,422	0.006	8	254
21	78.05	16	73	0.000	0	13
20	76.5	478	2,140	0.009	12	407
19	72.5	815	3,285	0.013	19	694
18	67.5	836	2,937	0.012	17	712
17	64.5	170	546	0.002	3	145
16	62	751	2,237	0.009	13	640
15	57.84	847	2,205	0.009	13	722
14	55.34	180	431	0.002	2	154
13	52.5	1,338	2,886	0.012	17	1,139
12	47.7891	1,201	2,160	0.009	12	1,023
11	45.2891	255	413	0.002	2	217
10	42.7109	2,043	2,955	0.012	17	1,740
9	40.2109	126	163	0.001	1	108
8	37.5	1,512	1,699	0.007	10	1,288
7	32.5	1,537	1,309	0.005	8	1,309
6	27.5	1,563	963	0.004	6	1,331
5	22.5	1,588	663	0.003	4	1,353
4	17.5	1,613	414	0.002	2	1,374
3	12.5	1,639	219	0.001	1	1,396
2	7.5	1,664	83	0.000	0	1,418
1	2.5	1,690	10	0.000	0	1,439
Ericsson Air 6449 B77D	133	245	3,200	0.013	18	209
Raycap DC6-48-60-18-8F ("Squid")	131	38	480	0.002	3	32
Ericsson RRUS 8843 B2, B66A	131	216	2,742	0.011	16	184
Ericsson RRUS 4478 B14	131	180	2,281	0.009	13	153
Ericsson RRUS 4449 B5, B12	131	213	2,704	0.011	16	181
Ericsson RRUS 32 B30	131	180	2,285	0.009	13	153
Raycap DC6-48-60-0-8C	131	16	203	0.001	1	14
CCI DMP65R-BU6EA-K	131	311	3,953	0.016	23	265
CCI OPA65R-BU6D	131	190	2,407	0.010	14	161
Generic Round Sector Frame	131	2,100	26,659	0.109	153	1,789
Ericsson AIR 6419 B77G	129	198	2,443	0.010	14	169
Ericsson 4460 BAND 2/25	120	327	3,502	0.014	20	279
Ericsson 4480 BAND 71	120	243	2,603	0.011	15	207
Ericsson AIR 6419 B41	120	206	2,201	0.009	13	175
Commscope VV-65A-R1	120	71	765	0.003	4	61
RFS APXVAALL24 43-U-NA20	120	368	3,946	0.016	23	314
Generic Square Platform with Handrails	120	3,790	40,591	0.166	233	3,228
Generic Flat Platform with Handrails	111	2,500	23,020	0.094	132	2,129
Generic Flat Platform with Handrails	100	2,500	18,805	0.077	108	2,129
Generic GPS	100	10	75	0.000	0	9
Kaelus KA-6030	100	35	265	0.001	2	30
Samsung B5/B13 RRH-BR04C	100	211	1,586	0.006	9	180
Samsung B2/B66A RRH-BR049	100	253	1,905	0.008	11	216
Raycap RRFDC-6627-PF-48	100	32	241	0.001	1	27
Samsung MT6407-77A	100	245	1,841	0.008	11	209
Antel BXA-70080/6CF__	100	54	406	0.002	2	46
Quintel QS6656-5D	100	528	3,972	0.016	23	450
Diamond X50A	78.1	5	21	0.000	0	4
Generic Round Side Arm	78	188	871	0.004	5	160
Generic Flat Stand-Off	78	188	871	0.004	5	160
Fujitsu TA08025-B604	64	192	607	0.002	3	163
Fujitsu TA08025-B605	64	225	713	0.003	4	192
Raycap RDIDC-9181-PF-48	64	22	69	0.000	0	19

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Commscope FFVV-65B-R2	64	212	673	0.003	4	181
Generic Round Platform with Handrails	64	2,500	7,918	0.032	45	2,129
Totals:		46,837	244,943	1.000	1,405	39,895

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.35	-1.41	0.00	-156.91	0.00	156.91	4,383.15	1,101.74	4,632	3,974.58	0.00	0.00	0.04
5.00	-54.28	-1.42	0.00	-149.86	0.00	149.86	4,317.85	1,075.50	4,414	3,821.19	0.01	-0.01	0.04
10.00	-52.23	-1.43	0.00	-142.77	0.00	142.77	4,250.64	1,049.26	4,201	3,669.01	0.02	-0.02	0.04
15.00	-50.22	-1.43	0.00	-135.65	0.00	135.65	4,181.52	1,023.01	3,994	3,518.15	0.05	-0.03	0.04
20.00	-48.23	-1.43	0.00	-128.49	0.00	128.49	4,110.49	996.77	3,791	3,368.74	0.08	-0.04	0.04
25.00	-46.28	-1.44	0.00	-121.32	0.00	121.32	4,037.56	970.52	3,595	3,220.91	0.13	-0.05	0.03
30.00	-44.36	-1.43	0.00	-114.14	0.00	114.14	3,962.71	944.28	3,403	3,074.78	0.19	-0.06	0.03
35.00	-42.48	-1.43	0.00	-106.97	0.00	106.97	3,885.75	918.04	3,216	2,907.69	0.26	-0.07	0.03
40.00	-42.32	-1.43	0.00	-99.82	0.00	99.82	3,745.52	891.79	3,035	2,742.88	0.34	-0.08	0.03
40.42	-39.77	-1.42	0.00	-99.22	0.00	99.22	3,736.22	889.58	3,020	2,729.20	0.34	-0.08	0.03
45.00	-39.45	-1.42	0.00	-92.73	0.00	92.73	3,635.30	865.55	2,859	2,582.88	0.43	-0.09	0.03
45.58	-37.95	-1.41	0.00	-91.91	0.00	91.91	3,085.21	756.51	2,548	2,239.64	0.44	-0.09	0.03
50.00	-36.28	-1.39	0.00	-85.70	0.00	85.70	3,031.72	736.62	2,416	2,142.33	0.53	-0.10	0.03
55.00	-36.05	-1.39	0.00	-78.74	0.00	78.74	2,969.43	714.13	2,271	2,033.56	0.64	-0.11	0.03
55.68	-35.00	-1.38	0.00	-77.79	0.00	77.79	2,960.81	711.07	2,251	2,018.87	0.66	-0.11	0.03
55.68	-35.00	-1.38	0.00	-77.79	0.00	77.79	2,960.81	711.07	2,251	2,018.87	0.66	-0.11	0.05
60.00	-34.06	-1.37	0.00	-71.82	0.00	71.82	2,904.85	691.63	2,130	1,925.98	0.76	-0.12	0.05
64.00	-29.91	-1.31	0.00	-66.32	0.00	66.32	2,829.27	673.64	2,020	1,826.50	0.87	-0.14	0.05
65.00	-28.87	-1.30	0.00	-65.01	0.00	65.01	2,810.37	669.14	1,994	1,802.04	0.90	-0.14	0.05
70.00	-27.85	-1.28	0.00	-58.53	0.00	58.53	2,715.89	646.64	1,862	1,682.23	1.06	-0.16	0.05
75.00	-27.26	-1.28	0.00	-52.12	0.00	52.12	2,621.41	624.15	1,735	1,566.54	1.24	-0.18	0.04
78.00	-26.77	-1.27	0.00	-48.29	0.00	48.29	2,564.73	610.65	1,660	1,499.10	1.36	-0.19	0.04
78.10	-26.39	-1.26	0.00	-48.16	0.00	48.16	2,562.84	610.20	1,658	1,496.88	1.36	-0.19	0.04
80.00	-26.21	-1.26	0.00	-45.77	0.00	45.77	2,526.94	601.65	1,612	1,454.97	1.44	-0.20	0.04
80.92	-25.03	-1.23	0.00	-44.61	0.00	44.61	2,509.47	597.49	1,590	1,434.80	1.47	-0.20	0.04
85.00	-25.01	-1.23	0.00	-39.61	0.00	39.61	2,432.46	579.16	1,494	1,347.52	1.65	-0.21	0.04
85.08	-24.31	-1.21	0.00	-39.51	0.00	39.51	1,511.75	394.71	1,040	860.19	1.65	-0.21	0.06
90.00	-23.61	-1.20	0.00	-33.54	0.00	33.54	1,478.99	379.94	964	809.78	1.88	-0.23	0.06
95.00	-22.93	-1.18	0.00	-27.56	0.00	27.56	1,443.84	364.94	889	759.04	2.14	-0.25	0.05
100.00	-17.49	-0.97	0.00	-21.66	0.00	21.66	1,406.77	349.94	818	708.87	2.41	-0.27	0.04
105.00	-16.90	-0.95	0.00	-16.80	0.00	16.80	1,367.80	334.95	749	659.40	2.71	-0.29	0.04
110.00	-16.79	-0.95	0.00	-12.05	0.00	12.05	1,326.92	319.95	684	610.75	3.02	-0.30	0.03
111.00	-13.21	-0.78	0.00	-11.10	0.00	11.10	1,318.52	316.95	671	601.13	3.08	-0.31	0.03
115.00	-12.66	-0.75	0.00	-7.99	0.00	7.99	1,280.81	304.95	621	561.60	3.34	-0.32	0.02
120.00	-5.92	-0.38	0.00	-4.24	0.00	4.24	1,217.82	289.96	562	507.42	3.68	-0.32	0.01
125.00	-5.83	-0.38	0.00	-2.34	0.00	2.34	1,154.84	274.96	505	455.99	4.02	-0.33	0.01
126.00	-5.66	-0.37	0.00	-1.96	0.00	1.96	1,142.24	271.96	494	446.03	4.09	-0.33	0.01
126.00	-5.66	-0.37	0.00	-1.96	0.00	1.96	385.02	115.51	105	106.00	4.09	-0.33	0.03
128.00	-5.58	-0.36	0.00	-1.23	0.00	1.23	385.02	115.51	105	106.00	4.23	-0.33	0.03
128.00	-5.58	-0.36	0.00	-1.23	0.00	1.23	396.02	118.81	108	109.03	4.23	-0.33	0.03
129.00	-5.25	-0.34	0.00	-0.87	0.00	0.87	396.02	118.81	108	109.03	4.30	-0.33	0.02
130.00	-5.17	-0.34	0.00	-0.53	0.00	0.53	396.02	118.81	108	109.03	4.37	-0.34	0.02
131.00	-0.77	-0.05	0.00	-0.19	0.00	0.19	396.02	118.81	108	109.03	4.44	-0.34	0.00
133.00	-0.36	-0.03	0.00	-0.09	0.00	0.09	396.02	118.81	108	109.03	4.58	-0.34	0.00
135.00	-0.10	-0.01	0.00	-0.04	0.00	0.04	396.02	118.81	108	109.03	4.72	-0.34	0.00
140.00	0.00	0.00	0.00	0.00	0.00	0.00	396.02	118.81	108	109.03	5.08	-0.34	0.00
142.00	0.00	0.00	0.00	0.00	0.00	0.00	396.02	118.81	108	109.03	5.22	-0.34	0.00

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

CALCULATED FORCES

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.46	-1.41	0.00	-154.07	0.00	154.07	4,383.15	1,101.74	4,632	3,974.58	0.00	0.00	0.03
5.00	-37.04	-1.41	0.00	-147.04	0.00	147.04	4,317.85	1,075.50	4,414	3,821.19	0.01	-0.01	0.03
10.00	-35.64	-1.42	0.00	-139.97	0.00	139.97	4,250.64	1,049.26	4,201	3,669.01	0.02	-0.02	0.03
15.00	-34.27	-1.42	0.00	-132.89	0.00	132.89	4,181.52	1,023.01	3,994	3,518.15	0.05	-0.03	0.03
20.00	-32.91	-1.42	0.00	-125.79	0.00	125.79	4,110.49	996.77	3,791	3,368.74	0.08	-0.04	0.03
25.00	-31.58	-1.42	0.00	-118.69	0.00	118.69	4,037.56	970.52	3,595	3,220.91	0.13	-0.05	0.03
30.00	-30.27	-1.42	0.00	-111.59	0.00	111.59	3,962.71	944.28	3,403	3,074.78	0.18	-0.06	0.03
35.00	-28.99	-1.41	0.00	-104.51	0.00	104.51	3,855.75	918.04	3,216	2,907.69	0.25	-0.07	0.03
40.00	-28.88	-1.41	0.00	-97.45	0.00	97.45	3,745.52	891.79	3,035	2,742.88	0.33	-0.08	0.03
40.42	-27.14	-1.40	0.00	-96.86	0.00	96.86	3,736.22	889.58	3,020	2,729.20	0.34	-0.08	0.03
45.00	-26.92	-1.40	0.00	-90.47	0.00	90.47	3,635.30	865.55	2,859	2,582.88	0.42	-0.09	0.03
45.58	-25.90	-1.38	0.00	-89.66	0.00	89.66	3,085.21	756.51	2,548	2,239.64	0.43	-0.09	0.03
50.00	-24.76	-1.37	0.00	-83.55	0.00	83.55	3,031.72	736.62	2,416	2,142.33	0.52	-0.10	0.03
55.00	-24.60	-1.37	0.00	-76.70	0.00	76.70	2,969.43	714.13	2,271	2,033.56	0.63	-0.11	0.03
55.68	-23.88	-1.36	0.00	-75.77	0.00	75.77	2,960.81	711.07	2,251	2,018.87	0.64	-0.11	0.03
55.68	-23.88	-1.36	0.00	-75.77	0.00	75.77	2,960.81	711.07	2,251	2,018.87	0.64	-0.11	0.05
60.00	-23.24	-1.35	0.00	-69.91	0.00	69.91	2,904.85	691.63	2,130	1,925.98	0.75	-0.12	0.04
64.00	-20.41	-1.28	0.00	-64.52	0.00	64.52	2,829.27	673.64	2,020	1,826.50	0.86	-0.14	0.04
65.00	-19.70	-1.27	0.00	-63.23	0.00	63.23	2,810.37	669.14	1,994	1,802.04	0.88	-0.14	0.04
70.00	-19.01	-1.25	0.00	-56.89	0.00	56.89	2,715.89	646.64	1,862	1,682.23	1.04	-0.16	0.04
75.00	-18.60	-1.25	0.00	-50.61	0.00	50.61	2,621.41	624.15	1,735	1,566.54	1.21	-0.17	0.04
78.00	-18.27	-1.24	0.00	-46.88	0.00	46.88	2,564.73	610.65	1,660	1,499.10	1.33	-0.18	0.04
78.10	-18.01	-1.23	0.00	-46.75	0.00	46.75	2,562.84	610.20	1,658	1,496.88	1.33	-0.18	0.04
80.00	-17.88	-1.23	0.00	-44.42	0.00	44.42	2,526.94	601.65	1,612	1,454.97	1.40	-0.19	0.04
80.92	-17.08	-1.20	0.00	-43.29	0.00	43.29	2,509.47	597.49	1,590	1,434.80	1.44	-0.19	0.04
85.00	-17.07	-1.20	0.00	-38.41	0.00	38.41	2,432.46	579.16	1,494	1,347.52	1.61	-0.21	0.04
85.08	-16.59	-1.18	0.00	-38.32	0.00	38.32	1,511.75	394.71	1,040	860.19	1.62	-0.21	0.06
90.00	-16.11	-1.16	0.00	-32.51	0.00	32.51	1,478.99	379.94	964	809.78	1.84	-0.22	0.05
95.00	-15.65	-1.14	0.00	-26.70	0.00	26.70	1,443.84	364.94	889	759.04	2.09	-0.25	0.05
100.00	-11.94	-0.94	0.00	-20.98	0.00	20.98	1,406.77	349.94	818	708.87	2.36	-0.26	0.04
105.00	-11.53	-0.92	0.00	-16.27	0.00	16.27	1,367.80	334.95	749	659.40	2.64	-0.28	0.03
110.00	-11.45	-0.92	0.00	-11.67	0.00	11.67	1,326.92	319.95	684	610.75	2.95	-0.30	0.03
111.00	-9.01	-0.75	0.00	-10.75	0.00	10.75	1,318.52	316.95	671	601.13	3.01	-0.30	0.03
115.00	-8.64	-0.73	0.00	-7.74	0.00	7.74	1,280.81	304.95	621	561.60	3.26	-0.31	0.02
120.00	-4.04	-0.37	0.00	-4.11	0.00	4.11	1,217.82	289.96	562	507.42	3.59	-0.32	0.01
125.00	-3.98	-0.36	0.00	-2.26	0.00	2.26	1,154.84	274.96	505	455.99	3.92	-0.32	0.01
126.00	-3.86	-0.35	0.00	-1.90	0.00	1.90	1,142.24	271.96	494	446.03	3.99	-0.32	0.01
126.00	-3.86	-0.35	0.00	-1.90	0.00	1.90	385.02	115.51	105	106.00	3.99	-0.32	0.03
128.00	-3.81	-0.35	0.00	-1.19	0.00	1.19	385.02	115.51	105	106.00	4.13	-0.32	0.02
128.00	-3.81	-0.35	0.00	-1.19	0.00	1.19	396.02	118.81	108	109.03	4.13	-0.32	0.02
129.00	-3.58	-0.33	0.00	-0.84	0.00	0.84	396.02	118.81	108	109.03	4.19	-0.32	0.02
130.00	-3.53	-0.32	0.00	-0.51	0.00	0.51	396.02	118.81	108	109.03	4.26	-0.33	0.01
131.00	-0.53	-0.05	0.00	-0.19	0.00	0.19	396.02	118.81	108	109.03	4.33	-0.33	0.00
133.00	-0.25	-0.02	0.00	-0.09	0.00	0.09	396.02	118.81	108	109.03	4.47	-0.33	0.00
135.00	-0.07	-0.01	0.00	-0.04	0.00	0.04	396.02	118.81	108	109.03	4.61	-0.33	0.00
140.00	0.00	0.00	0.00	0.00	0.00	0.00	396.02	118.81	108	109.03	4.95	-0.33	0.00
142.00	0.00	0.00	0.00	0.00	0.00	0.00	396.02	118.81	108	109.03	5.09	-0.33	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	36.19	0.00	56.14	0.00	0.00	3166.23	85.08	0.77
0.9D + 1.0W	36.17	0.00	42.09	0.00	0.00	3127.33	85.08	0.75
1.2D + 1.0Di + 1.0Wi	8.10	0.00	74.97	0.00	0.00	791.01	85.08	0.23
1.2D + 1.0Ev + 1.0Eh	1.44	0.00	56.35	0.00	0.00	156.91	85.08	0.06
0.9D - 1.0Ev + 1.0Eh	1.42	0.00	38.46	0.00	0.00	154.07	85.08	0.06
1.0D + 1.0W	8.40	0.00	46.83	0.00	0.00	731.08	85.08	0.19

ADDITIONAL STEEL SUMMARY

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max Member		
			VQ/I (k/in)	Shear Applied (kips)	phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
0.00	55.68	SOL #20 All Thread Bar	280.7	8.4	16.8	0.501	218.2	330.5	

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I (kips)	phiVn (kips)	Number Required	Number Actual	Ratio	MQ/I (kips)	phiVn (kip)	Number Required	Number Actual	Ratio
0.00	55.68	SOL #20 All Thread Bar	164.7771	12	14	22	0.6242	0	12	0	0	0.0000

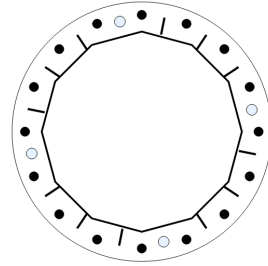
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3166.23	56.14	36.19

PLATE PARAMETERS (ID# 15669)

Width:	60	in
Shape:	Round	
Thickness:	2	in
Grade:	A871-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	c	
Clear Distance:	-	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Elastic	
Neutral Axis:	48	°



ANCHOR ROD PARAMETERS

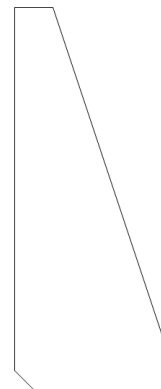
Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#16040]	Radial	16	2.25	54	A615-75	75	100	-	-

DYWIDAG BAR PARAMETERS

Quantity	Bar Size	Bar Diameter (in)	F _y (ksi)	F _u (ksi)	Bracket Type	Bracket Offset (in)	Circle (in)	Offset (°)
4 [ID# 954]	#20	2.5	80	100	Angle	2.19	51.88	11.25

STIFFENER PARAMETERS

Arrangement:	Radial	
Quantity:	12	
Height:	10	in
Width:	4	in
Thickness:	0.5	in
Notch:	0.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.313	in
Vertical Weld Fillet Size:	0.313	in
Weld Strength:	70	ksi
Orientation Offset:	-	°



ASSET: 302511, WSPT - South
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 PROJECT: 14519513

COMPONENT PROPERTIES						
Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	45"Ø x 0.4375" (12 Sides)	60.5515	-	-	15034.41	-
Bolt Group	Original (16) 2.25"Ø	3.9761	3.2477	0.8393	17157.27	4.5
Dywidag Group	(4) #20	4.9087	4.9087	1.9175	6613.69	-
Stiffeners	(12) 10"H x 4"W x 0.5"T	1.7500	1.5750	10.6667	5688.61	-

REACTION DISTRIBUTION					
Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	45"Ø x 0.4375" (12 Sides)	2198.9	56.14	36.19	0.694
Bolt Group	Original (16) 2.25"Ø	2198.9	-	36.19	0.694
Dywidag Group	(4) #20	967.3	-	-	0.306
Stiffeners	(12) 10"H x 4"W x 0.5"T	603.6	-	9.93	0.191

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter: 45.12 in
 Point-to-Point Diameter: 46.72 in
 Orientation Offset: - °

Flat Width: 12.091 in
 Flat Radians: 0.524 rad

PLATE PROPERTIES

Neutral Axis: 48 °
 Bend Line Limits: 1.774 to 2.939 rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n
Flats	35.459	6.11	41.568	680.8	2244.7	30.3%
Corners	33.334	3.27	36.607	405.1	1976.8	20.5%
Circumferential	44.434	8.13	52.561	866.9	2838.3	30.5%

ELASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Compressive Result	Interaction Result
Original	16	2.25	130.6	0.2	243.6	0.536	53.7%

DYWIDAG BAR ANALYSIS

Group Quantity	Bar Size	Bar Circle (in)	Applied Axial Load P _u (k)	Compressive Capacity ΦP _n (k)	Compressive Result P _u / ΦP _n
4	#20	51.88	183.4	368.2	49.8%

BASE PLATE STIFFENER ANALYSIS

Quantity:	12	
Height:	10	in
Width:	4	in
Effective Width:	4.000	in
Thickness:	0.5	in
Notch:	0.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.313	in
Horizontal Weld Bevel Size:		in
Vertical Weld Fillet Size:	0.313	in
Weld Strength:	70	ksi
Electrode Coefficient:	1.000	

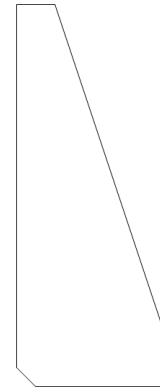


PLATE COMPRESSION

Radius of Gyration:	0.144	in ³
k/r:	41.57	
4.71 √(E/F _y):	133.68	
Buckling Stress, F _e :	165.64	ksi
Crit. Buckling Stress, F _{cr} :	145.26	ksi
Applied Compression, P _u :	49.52	k
Compressive Capacity, ΦP:	228.79	k
Compressive Result, P _u /ΦP _n :	10.8%	✓

PLATE TENSION

Gross Cross Section:	1.7500	in ²
Net Cross Section:	1.5750	in ²
Applied Tension, T _u :	47.73	k
Tensile Capacity, ΦT _n :	56.70	k
Tension Result, T _u /ΦT _n :	42.1%	✓

VERTICAL WELD TO POLE

Vertical Eccentricity Ratio, a=e _x /l:	0.133	
Spacing Ratio, k:	0.050	
Weld Coefficient, C:	3.720	
Applied Compression, P _u :	49.52	k
Compressive Capacity, ΦP _n :	139.72	k
Horizontal Eccentricity Ratio, a=e _y /l:	0.333	
Weld Coefficient, C:	2.940	
Applied Shear, V _u :	0.19	k
Shear Capacity, ΦV _n :	110.43	k
Weld Result, P _u /ΦP _n + V _u /ΦV _n :	35.6%	✓

HORIZONTAL WELD TO PLATE

Horizontal Eccentricity Ratio, a=e _x /l:	0.167	
Spacing Ratio, k:	0.125	
Weld Coefficient, C:	3.940	
Effective Fillet Size:	0.313	in
Applied Compression, P _u :	49.52	k
Compressive Capacity, ΦP _n :	59.19	k
Vertical Eccentricity Ratio, a=e _y /l:	0.417	
Weld Coefficient, C:	2.670	
Applied Shear, V _u :	0.19	k
Shear Capacity, ΦV _n :	40.11	k
Weld Result, P _u /ΦP _n + V _u /ΦV _n :	84.1%	✓

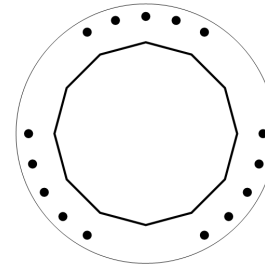
LOWER FLANGE PLATE ANALYSIS @ 125.9999 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
27.29	5.12	5.18

PLATE PARAMETERS (ID# 16078)

Width:	28.5	in
Shape:	Round	
Thickness:	1.5	in
Grade:	A871-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	120	°



FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#16456]	Cluster	15	1	25.75	A325	92	120	6	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	19.5002"ø x 0.25" (12 Sides)	14.9470	-	-	692.68	-
Bolt Group	Original (15) 1"ø	0.7854	0.6057	0.0292	682.19	8.0

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	19.5002"ø x 0.25" (12 Sides)	27.3	5.12	5.18	1.000
Bolt Group	Original (15) 1"ø	27.3	-	5.18	1.000

LOWER FLANGE PLATE BEND LINE ANALYSIS @ 125.9999 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	19.62	in
Point-to-Point Diameter:	20.32	in
Orientation Offset:	-	°

Flat Width:	5.259	in
Flat Radians:	0.524	rad

PLATE PROPERTIES

Neutral Axis:	120	°
Bend Line Limits:	to -0.332	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n
Flats	19.013	0.00	10.695	30.2	577.5	5.2% <input checked="" type="checkbox"/>
Corners	18.272	0.00	10.278	23.9	555.0	4.3% <input checked="" type="checkbox"/>
Circumferential	0.000	0.00	0.000	0.0	0.0	0.0% <input checked="" type="checkbox"/>

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	15	1	3.5	0.6	54.5	8.0% <input checked="" type="checkbox"/>

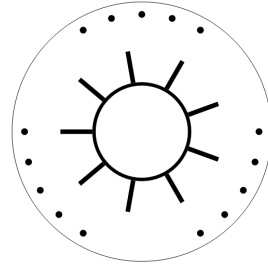
UPPER FLANGE PLATE ANALYSIS @ 127.9999 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
16.94	4.97	5.12

PLATE PARAMETERS (ID# 15670)

Width:	28.5	in
Shape:	Round	
Thickness:	0.75	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	7	°

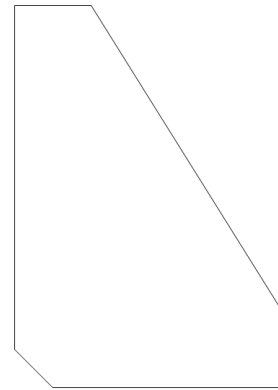


FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#16041]	Cluster	15	0.75	25.75	A325	92	120	6	-

STIFFENER PARAMETERS

Arrangement:	Radial	
Quantity:	9	
Height:	5	in
Width:	3.5	in
Thickness:	0.375	in
Notch:	0.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.375	in
Vertical Weld Fillet Size:	0.375	in
Weld Strength:	70	ksi
Orientation Offset:	-	°



COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	10.75"Ø x 0.375" (Round)	12.2226	-	-	165.04	-
Bolt Group	Original (15) 0.75"Ø	0.4418	0.3345	0.0089	386.22	10.0
Stiffeners	(9) 5"H x 3.5"W x 0.375"T	1.1250	1.0125	5.3594	237.40	-

ASSET: 302511, WSPT - South
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 PROJECT: 14519513

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	10.75"Ø x 0.375" (Round)	16.9	4.97	5.12	1.000
Bolt Group	Original (15) 0.75"Ø	16.9	-	5.12	1.000
Stiffeners	(9) 5"H x 3.5"W x 0.375"T	10.0	-	3.02	0.590

UPPER FLANGE PLATE BEND LINE ANALYSIS @ 127.9999 FT

POLE PROPERTIES

Flat-to-Flat Diameter: 10.88 in
 Point-to-Point Diameter: 10.88 in
 Orientation Offset: - °

Flat Width: 0.095 in
 Flat Radians: 0.017 rad

PLATE PROPERTIES

Neutral Axis: 7 °
 Bend Line Limits: to -5.641 rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n
Flats	24.672	4.61	4.118	71.8	133.4	53.8%
Corners	24.672	4.61	4.118	71.8	133.4	53.8%
Circumferential	0.000	0.00	0.000	0.0	0.0	0.0%

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	15	0.75	2.4	0.5	30.1	10.5%

UPPER FLANGE PLATE STIFFENER ANALYSIS

Quantity:	9	
Height:	5	in
Width:	3.5	in
Effective Width:	3.500	in
Thickness:	0.375	in
Notch:	0.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.375	in
Horizontal Weld Bevel Size:		in
Vertical Weld Fillet Size:	0.375	in
Weld Strength:	70	ksi
Electrode Coefficient:	1.000	

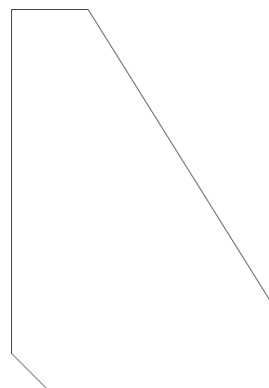


PLATE COMPRESSION

Radius of Gyration:	0.108	in ³
k/r:	27.71	
$4.71 \sqrt{(E/F_y)}$:	133.68	
Buckling Stress, F_e :	372.68	ksi
Crit. Buckling Stress, F_{cr} :	326.84	ksi
Applied Compression, P_u :	3.96	k
Compressive Capacity, ΦP_n :	330.93	k
Compressive Result, $P_u/\Phi P_n$:	0.6%	✓

PLATE TENSION

Gross Cross Section:	1.1250	in ²
Net Cross Section:	1.0125	in ²
Applied Tension, T_u :	3.16	k
Tensile Capacity, ΦT_n :	36.45	k
Tension Result, $T_u/\Phi T_n$:	4.3%	✓

VERTICAL WELD TO POLE

Vertical Eccentricity Ratio, $a=e_x/l$:	0.233	
Spacing Ratio, k:	0.075	
Weld Coefficient, C:	3.510	
Applied Compression, P_u :	3.96	k
Compressive Capacity, ΦP_n :	78.98	k
Horizontal Eccentricity Ratio, $a=e_x/l$:	0.333	
Weld Coefficient, C:	2.940	
Applied Shear, V_u :	0.03	k
Shear Capacity, ΦV_n :	66.15	k
Weld Result, $P_u/\Phi P_n + V_u/\Phi V_n$:	5.1%	✓

HORIZONTAL WELD TO PLATE

Horizontal Eccentricity Ratio, $a=e_x/l$:	0.167	
Spacing Ratio, k:	0.107	
Weld Coefficient, C:	3.940	
Effective Fillet Size:	0.375	in
Applied Compression, P_u :	3.96	k
Compressive Capacity, ΦP_n :	62.06	k
Vertical Eccentricity Ratio, $a=e_x/l$:	0.238	
Weld Coefficient, C:	3.510	
Applied Shear, V_u :	0.03	k
Shear Capacity, ΦV_n :	55.28	k
Weld Result, $P_u/\Phi P_n + V_u/\Phi V_n$:	6.4%	✓

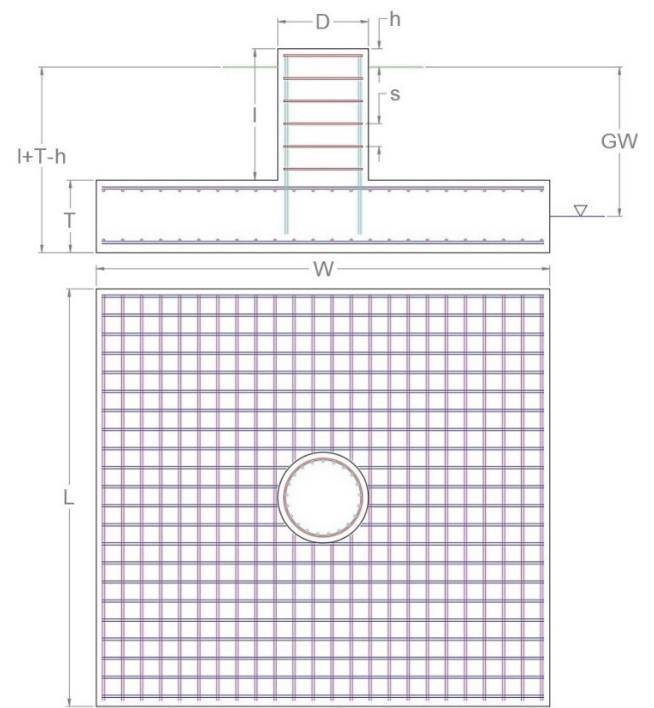


APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3,166.23	56.14	36.19

FOUNDATION PARAMETERS

Mat Length:	L	26.5	ft
Mat Width:	W	26.5	ft
Mat Thickness:	T	3	ft
Base Depth:	L+T-h	7	ft
Pier Shape:		Square	
Pier Width:	D	6.5	ft
Pier Height above Grade:	h	0.5	ft
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



SOIL PARAMETERS

Water Table Depth [BGL]:	GW	10	ft
Soil Unit Weight:		125	pcf
Ultimate Skin Friction:		0	psf
Ultimate Bearing Pressure:		18,255	psf
Bearing Pressure Type:		Gross	
Coefficient of Shear Friction:		0.2	

SOIL STRENGTH ANALYSIS

Soil Strength Reduction Factor, Φ_s	Uplift Strength Reduction Factor, Φ_s	Asset Dead Load Factor	Dead Load Factor
0.75	0.75	0.9	1.2

SOIL OVERTURNING ANALYSIS

Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$
3,437.66	9,105.56	37.8% ✔

SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (k-ft)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
1,525.00	13,691.00	Diagonal to Pad Edge	11.1% ✔

SOIL SLIDING SHEAR ANALYSIS

Applied Shear Force, V_u (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$
36.19	0.00	687.5	54.66	149.19	24.0% ✔

Site ID	302511
Site Name	WSPT-South
Project #	14519513
Date	Wednesday, August 16, 2023
Engineer	NL

Version
1.0
12/6/2017



EXTENSION INTERFACE

Analysis Details	
Strength Reduction Factor, ϕ	0.9
$k = Z/S$	1.75
Weld Strength Reduction Factor, ϕ	0.75

Section & Loading	
Extension Interface Elevation	126 ft
Total Moment, Mu_t	27.3 kip-ft
Total Shear, Vu_t	5.2 kip
Total Axial Load, Pu_t	5.1 kip

Forces on Single Interface Weldment	
Axial Compression, Pu	24.96 kip
Flexure (from Compression), Mu_P	121.59 kip-in
Axial Tension, Tu	21.55 kip
Flexure (from Tension), Mu_T	104.96 kip-in

Design Tensile Strength	
Design Tensile Strength, ϕPn	380.5 k
Usage	5.7% Pass

Design Compressive Strength	
Effective Length Factor, k	1.0 -
Unbraced Length, Lu	22 1/2 in
Radius of Gyration, r	1.79 in
kL/r	12.60 -
Fcr	35.70 ksi
Design Compressive Strength, ϕPn	377.38 k
Usage	6.6% Pass

Design Flexural Strength	
Yield Moment, My	257.3 kip-in
Plastic Moment (Stem in T), Mp_T	411.72 kip-in
Plastic Moment (Stem in C), Mp_C	257.33 kip-in
Lateral Torsional Bucking Variable, B	3.30 -
Nominal Moment (Stem in T), Mn_T	153032.76 kip-in
Nominal Moment (Stem in C), Mn_C	3366.26 kip-in
Limiting w-t Ratio (Flange), λp	10.79 -
w-t Ratio (Flange), λ	1.46 -
FLB Apply?	NO -
Design Flexural Strength, ϕMn_T	370.55 kip-in
Usage	28.3% Pass
Design Flexural Strength, ϕMn_C	231.59 kip-in
Usage	52.5% Pass

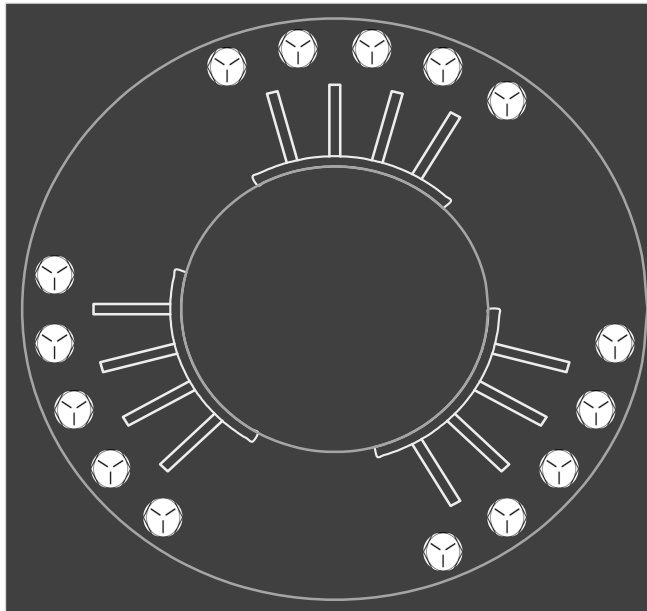
Weld Strength	
Weld Size, $D/16$	3/8 in
Weld Electrode Strength	70 ksi
Eccentricity, e_x	1.75 in
Weld Length	22 1/2 in
$a = (e_x/L)$	0.08 -
Weld Coefficient, C	3.72 -
Electrode Strength Coefficient, C_1	1.0 -
Pu_weld	63.0 kip
Design Strength, ϕRn	376.4 k
Usage	16.7% Pass

Single Interface Weldment Section Properties	
Distance From Center to Centroid, d	8.00 in
Distance Between Centroids, e	4.87 in
Width of Stiffener, W	3.50 in
Thickness of Stiffener, t	0.50 in
Width of Pipe b/t Stiffener Plates, bf	1.46 in
Gross Area, Ag	11.75 in ²
Min Radius of Gyration, r	1.79 in
Section Modulus - Stiffener, Sx_s	7.15 in ³
Plastic Section Modulus, Zx	12.51 in ³
Moment of Inertia, Iy	83.120 in ⁴
Torsional Constant, J	0.979 in ⁴

Material Properties	
Stiffener Plate Grade	A36 -
Yield Strength, Fy (ksi)	36 ksi
Tensile Strength, Fu (ksi)	58 ksi
Modulus of Elasticity, E	29000 ksi
Shear Modulus of Elasticity, G	11200 ksi

Top of Tower Flange Details		Show Top Flange?	Y
Tower Flange Diameter	28.5 (in)		
Tower Flange Opening Dia	14 (in)		
Flange Bolt Circle	25.75 (in)		
Flange Bolt Size	1 (in)		
Number of bolts on flange	24	Works best with 3 and 4 pieces!	
Rotation of bolts	15.0°	7.5° half bolt rotation angle	

Interface Weldment Section Properties	
Rotation of shapes	7.5°
Length of Stiffener Plate, L	22.50 (in)
Number of Pieces	3 3 or 4
Interface angles	75.0° 40° to 115°
Stiffener offset angle	15.0° Min ang: 4.875°
Opening angles and width	45° & 10.61"
Pipe Diameter	15 (in)
Pipe Thickness	0.5 (in)
Stiffener Base	3.5 (in)
Stiffener Thickness	0.5 (in)
Internal Stiffeners	2



Stiffener Angle Overrides	

Equivalent Round Section for SES	

EXHIBIT 4



Colliers Engineering & Design CT, P.C.
1055 Washington Blvd
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208087
Colliers Engineering & Design CT, P.C. Project #: 23777235

August 14, 2023

Site Information

Site ID: 5000386275-VZW / WESTPORT S CT
Site Name: WESTPORT S CT
Carrier Name: Verizon Wireless
Address: 1 Post Office Ln.
Westport, Connecticut 06880
Fairfield County
Latitude: 41.123444°
Longitude: -73.313067°

Structure Information

Tower Type: Monopole
Mount Type: 11.00-Ft Platform

FUZE ID # 17123770

Analysis Results

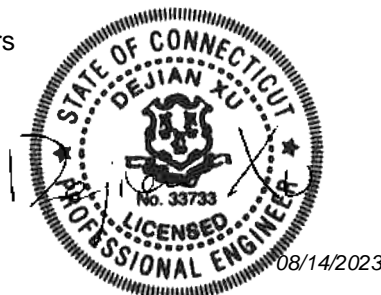
Platform: 60.7% **Pass w/ Hardware Upgrades***

*** Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Grant Walters



Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 325127, Dated March 19, 2021
Mount Mapping Report	Hudson Design Group, LLC., Site ID: 467426, Dated May 3, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21777859 Dated June 30, 2021
Filter Add Scope	Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code, Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 1.000
Seismic Parameters:	S_s : 0.232 g S_1 : 0.056 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
98.00	100.00	2	KAelus	KA-6030	Added
		3	Samsung	MT6407-77A	Retained
		3	Antel	BXA-70080-6CF	
		6	Quintel	QS6656-5D	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RRFDC-6627-PF-48*	

* Equipment is flush mounted directly to the Monopole. It is not mounted on the platform mount and is not included in this mount analysis.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT, P.C. and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design CT, P.C. to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	41.7 %	Pass
Standoff Horizontal	42.9 %	Pass
Corner Plate	10.5 %	Pass
Support Rail	60.7 %	Pass
Face Bracing	54.9 %	Pass
Mount Pipe	26.9 %	Pass
Ladder	24.4 %	Pass
Ladder Rungs	1.8 %	Pass
Unistrut	7.0 %	Pass
Mount Connection	38.5 %	Pass

Structure Rating – (Controlling Utilization of all Components)	60.7%*
---	---------------

* Results valid after hardware upgrades noted in the PMI Requirements are installed.

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	49.4	48.6	63.6	62.9
0.5	62.2	62.4	83.0	82.1
1	73.5	74.1	100.7	99.4

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 **upon the completion of the requirements listed below.**

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000386275

SMART Project #: 10208087

Fuze Project ID: 17123770

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
 - The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

- The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

--

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

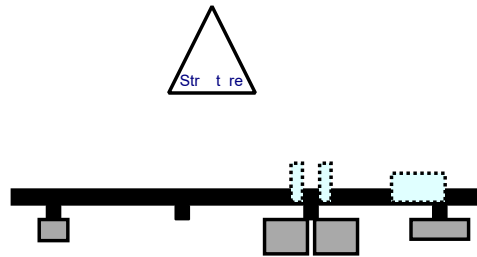
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

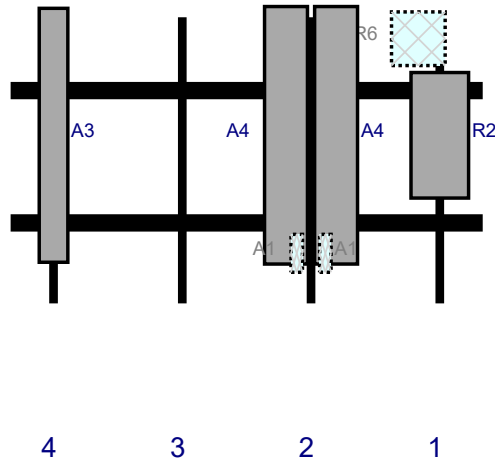
Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Plan View

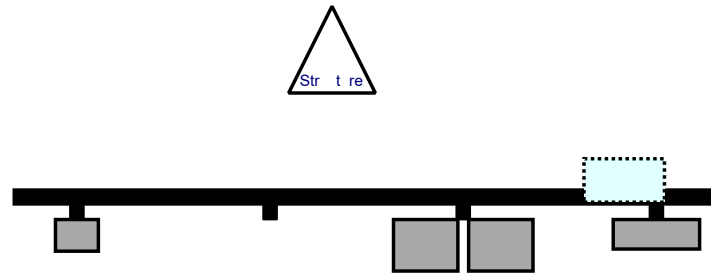


Front View - Looking at Structure

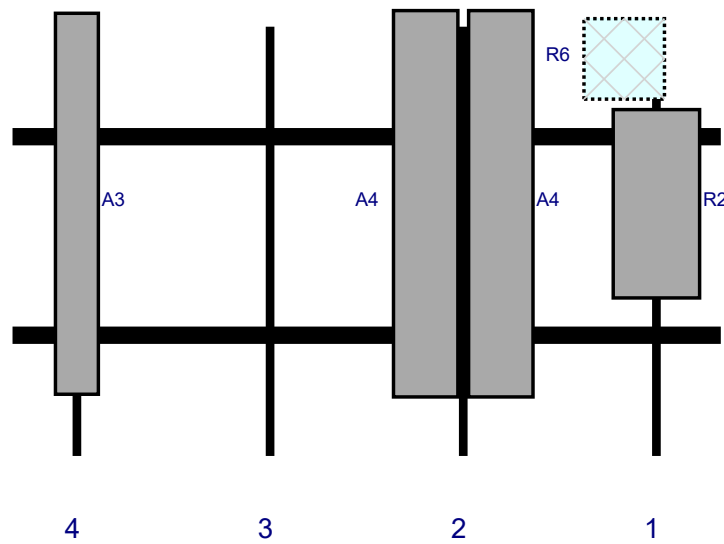


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
R2	MT6407-77A	35.1	16.1	120	1		Fro t	33	0	Ret i ed	
R6	B5/B13 RRH-BR04C	15	15	120	1		Behi d	6	-6	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	-7	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	7	Ret i ed	05/03/2021
A1	KA-6030	10.6	3.2	84	2		Behi d	66	-4	Added	
A1	KA-6030	10.6	3.2	84	2		Behi d	66	4	Added	
A3	BXA-70080-6CF	71	8	12	4		Fro t	33	0	Ret i ed	05/03/2021
	RADIOAB2/B66A RRH-BR049	15	15			Me er				Ret i ed	05/03/2021
	RADIOBB2/B66A RRH-BR049	15	15			Me er				Ret i ed	
	RADIOCB2/B66A RRH-BR049	15	15			Me er				Ret i ed	

Plan View

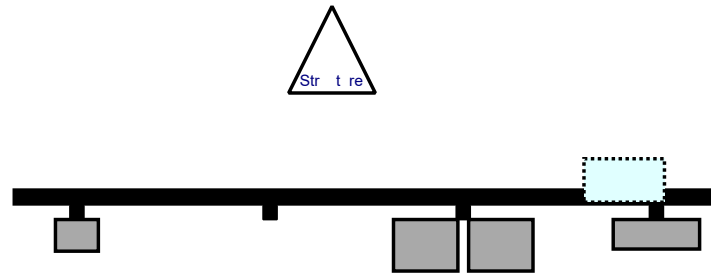


Front View - Looking at Structure

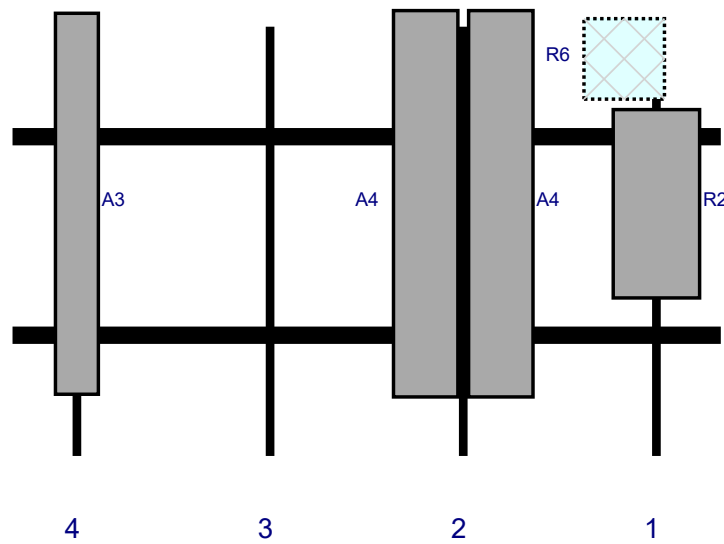


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
R2	MT6407-77A	35.1	16.1	120	1		Fro t	33	0	Ret i ed	
R6	B5/B13 RRH-BR04C	15	15	120	1		Behi d	6	-6	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	-7	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	7	Ret i ed	05/03/2021
A3	BXA-70080-6CF	71	8	12	4		Fro t	33	0	Ret i ed	05/03/2021

Plan View




Front View - Looking at Str t re



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
R2	MT6407-77A	35.1	16.1	120	1		Fro t	33	0	Ret i ed	
R6	B5/B13 RRH-BR04C	15	15	120	1		Behi d	6	-6	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	-7	Ret i ed	05/03/2021
A4	QS6656-5D	72	12	84	2		Fro t	33	7	Ret i ed	05/03/2021
A3	BXA-70080-6CF	71	8	12	4		Fro t	33	0	Ret i ed	05/03/2021



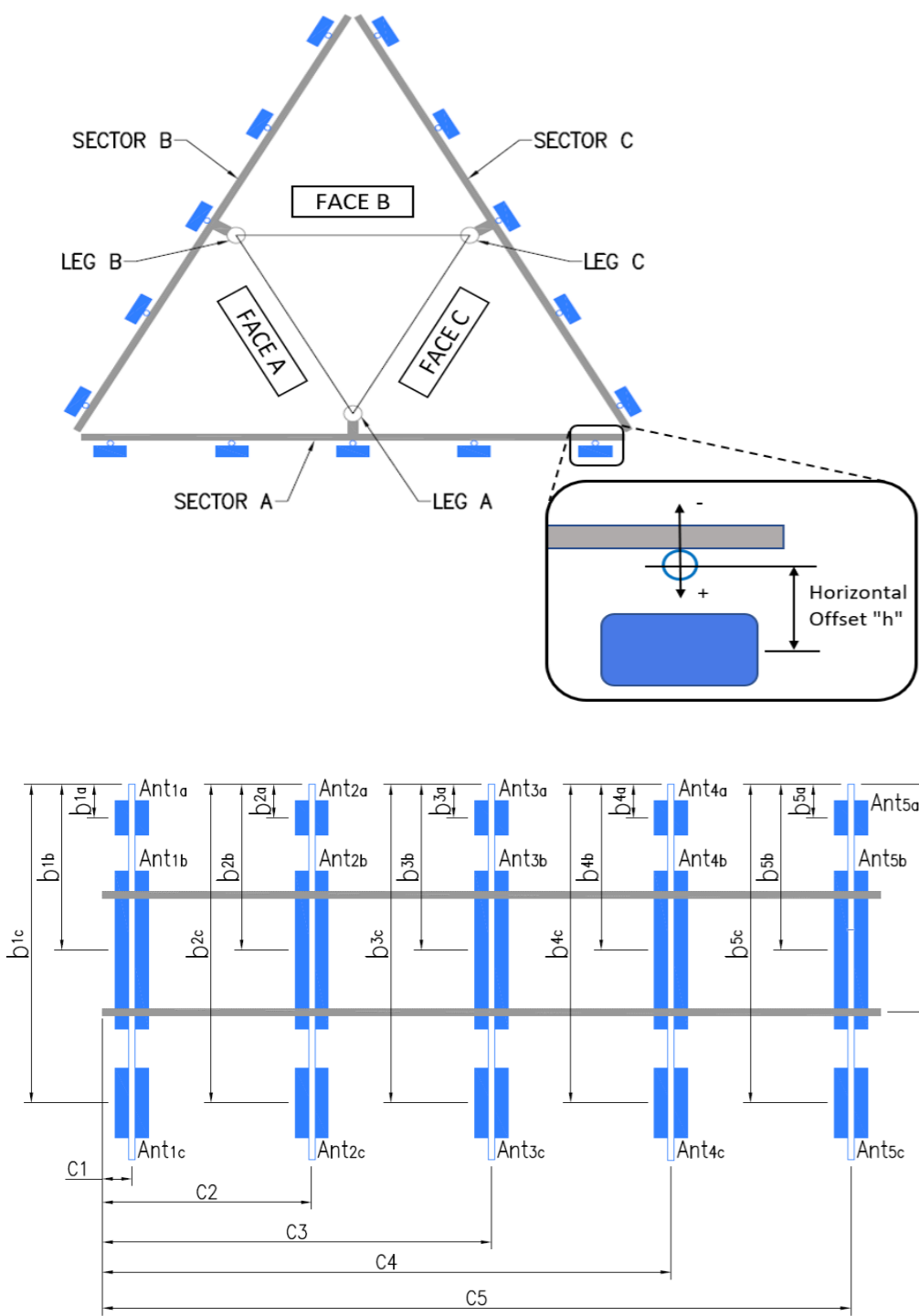
	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	AMERICAN TOWER CO.	Mapping Date:	5/3/2021
	Site Name:	WESTPORT S CT	Tower Type:	Monopole
	Site Number or ID:	467426	Tower Height (Ft.):	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	102.7	

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Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 80" LONG	57.50	12.00	C1	2" STD. PIPE X 80" LONG	57.50	12.00
A2	2" STD. PIPE X 80" LONG	57.50	48.00	C2	2" STD. PIPE X 80" LONG	57.50	48.00
A3	2" STD. PIPE X 80" LONG	57.50	84.00	C3	2" STD. PIPE X 80" LONG	57.50	84.00
A4	2" STD. PIPE X 80" LONG	57.50	120.00	C4	2" STD. PIPE X 80" LONG	57.50	120.00
A5				C5			
A6				C6			
B1	2" STD. PIPE X 80" LONG	57.50	12.00	D1			
B2	2" STD. PIPE X 80" LONG	57.50	48.00	D2			
B3	2" STD. PIPE X 80" LONG	57.50	84.00	D3			
B4	2" STD. PIPE X 80" LONG	57.50	120.00	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							18.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							6
Please enter additional information or comments below.							
MONOPOLE WALL THICKNESS: .320"							
POS. 2 RADIOS ARE MOUNTED TO UNISTRUT (BEHIND)							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		24.5			
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}	RFV01U-D2A	16.00	10.00	16.00		105.492	6.00			20,87
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	RFV01U-D1A	16.00	12.00	16.00		103.575	29.00	-16.00		20,104
Ant _{2b}	(2) QS66565DG54519	12.00	11.00	72.00		102.908	37.00	13.00	45.00	20,89
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	MGD3-800T0	7.00	4.00	53.00		103.742	27.00	7.00	55.00	21,91
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	BXA-70080/6CFEDIN	8.00	6.00	71.00		103.158	34.00	10.00	50.00	22,92
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.		Photo #
Description of Obstruction:		
Type of Light:	Photo #	Additional Comments:
Lighting Technology:	Photo #	
Elevation (AGL) at base of light (Ft.):	Photo #	
Is a service loop available?	Photo #	
Is beacon installed on an extension?	Photo #	

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	AMERICAN TOWER CO.	Mapping Date:	5/3/2021
Site Name:	WESTPORT S CT	Tower Type:	Monopole
Site Number or ID:	467426	Tower Height (Ft.):	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	102.7

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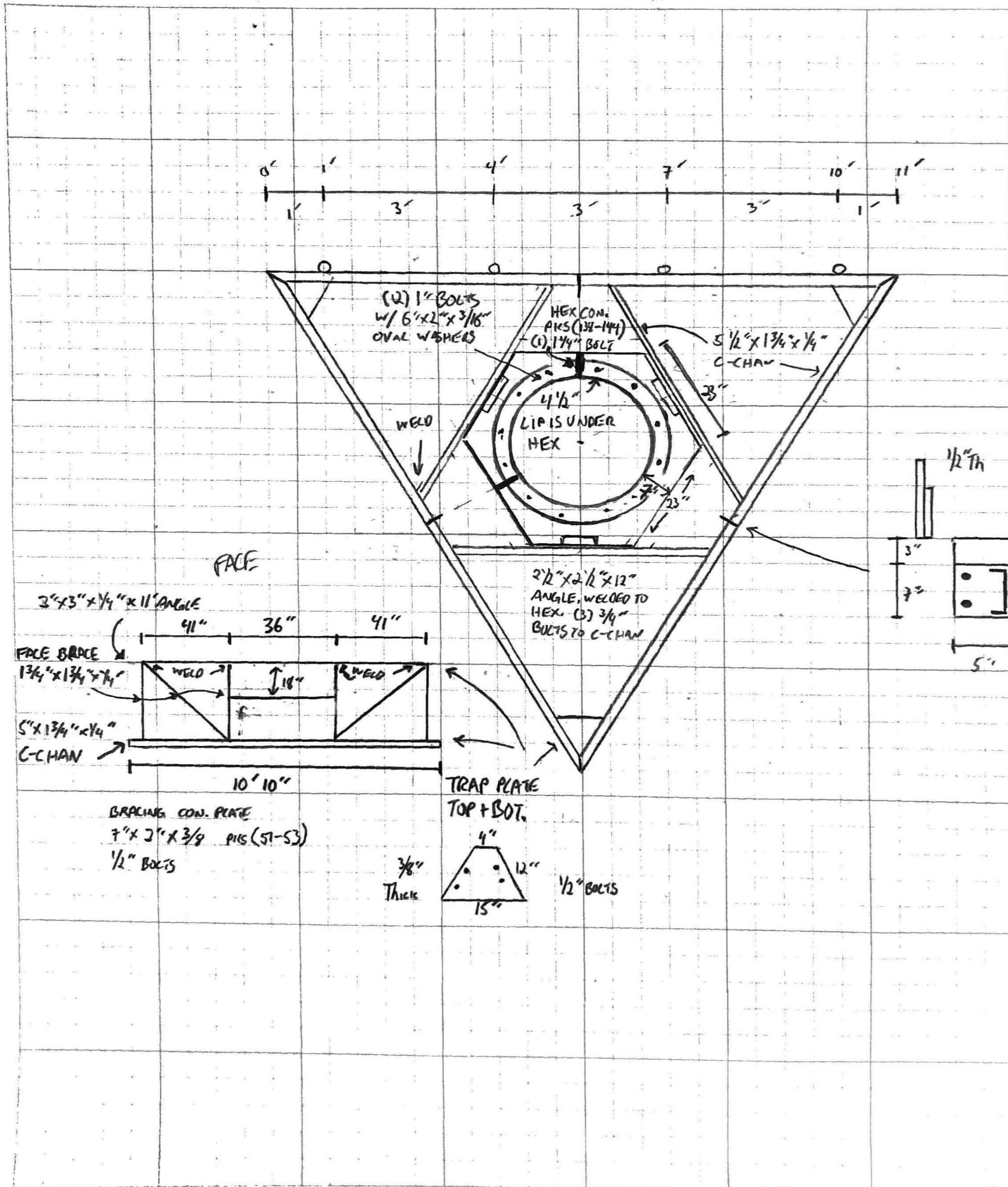
Please Insert Sketches of the Antenna Mount

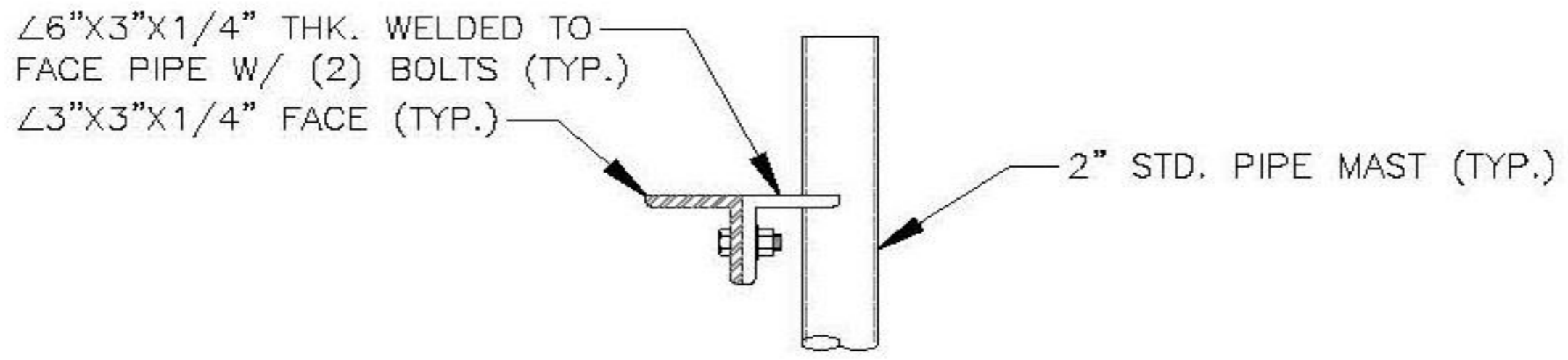
DATE: 05032021
 Project Name: _____
 Project No.: WESTPORT S CT
 Design By: [Signature] Chk'd By: _____ Page ____ of ____

HUDSON
Design Group LLC

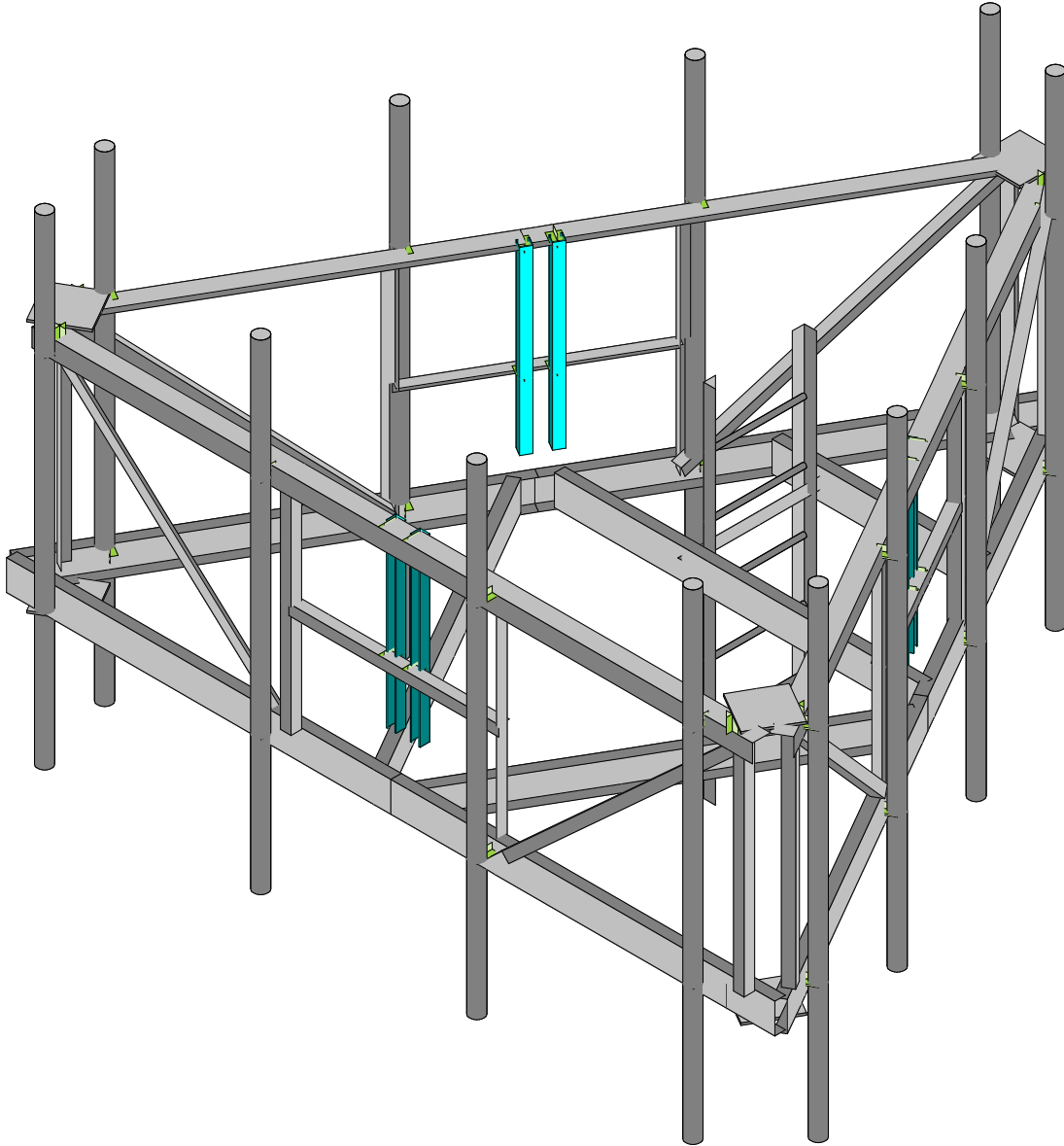
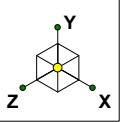
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586





CROSSOVER PLATE DETAIL



SK - 1

Aug 10, 2023 at 11:17 AM

5000386275-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	DistributedArea(Me... Surface(...	
1	Antenna D	None					96		
2	Antenna Di	None					96		
3	Antenna Wo (0 Deg)	None					96		
4	Antenna Wo (30 Deg)	None					96		
5	Antenna Wo (60 Deg)	None					96		
6	Antenna Wo (90 Deg)	None					96		
7	Antenna Wo (120 Deg)	None					96		
8	Antenna Wo (150 Deg)	None					96		
9	Antenna Wo (180 Deg)	None					96		
10	Antenna Wo (210 Deg)	None					96		
11	Antenna Wo (240 Deg)	None					96		
12	Antenna Wo (270 Deg)	None					96		
13	Antenna Wo (300 Deg)	None					96		
14	Antenna Wo (330 Deg)	None					96		
15	Antenna Wi (0 Deg)	None					96		
16	Antenna Wi (30 Deg)	None					96		
17	Antenna Wi (60 Deg)	None					96		
18	Antenna Wi (90 Deg)	None					96		
19	Antenna Wi (120 Deg)	None					96		
20	Antenna Wi (150 Deg)	None					96		
21	Antenna Wi (180 Deg)	None					96		
22	Antenna Wi (210 Deg)	None					96		
23	Antenna Wi (240 Deg)	None					96		
24	Antenna Wi (270 Deg)	None					96		
25	Antenna Wi (300 Deg)	None					96		
26	Antenna Wi (330 Deg)	None					96		
27	Antenna Wm (0 Deg)	None					96		
28	Antenna Wm (30 Deg)	None					96		
29	Antenna Wm (60 Deg)	None					96		
30	Antenna Wm (90 Deg)	None					96		
31	Antenna Wm (120 Deg)	None					96		
32	Antenna Wm (150 Deg)	None					96		
33	Antenna Wm (180 Deg)	None					96		
34	Antenna Wm (210 Deg)	None					96		
35	Antenna Wm (240 Deg)	None					96		
36	Antenna Wm (270 Deg)	None					96		
37	Antenna Wm (300 Deg)	None					96		
38	Antenna Wm (330 Deg)	None					96		
39	Structure D	None		-1					7
40	Structure Di	None						67	7
41	Structure Wo (0 Deg)	None						134	
42	Structure Wo (30 Deg)	None						134	
43	Structure Wo (60 Deg)	None						134	
44	Structure Wo (90 Deg)	None						134	
45	Structure Wo (120 Deg)	None						134	
46	Structure Wo (150 Deg)	None						134	
47	Structure Wo (180 Deg)	None						134	
48	Structure Wo (210 Deg)	None						134	
49	Structure Wo (240 Deg)	None						134	
50	Structure Wo (270 Deg)	None						134	
51	Structure Wo (300 Deg)	None						134	
52	Structure Wo (330 Deg)	None						134	
53	Structure Wi (0 Deg)	None						134	
54	Structure Wi (30 Deg)	None						134	
55	Structure Wi (60 Deg)	None						134	
56	Structure Wi (90 Deg)	None						134	



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	DistributedArea(Me... Surface(...
57 Structure Wi (120 Deg)	None						134
58 Structure Wi (150 Deg)	None						134
59 Structure Wi (180 Deg)	None						134
60 Structure Wi (210 Deg)	None						134
61 Structure Wi (240 Deg)	None						134
62 Structure Wi (270 Deg)	None						134
63 Structure Wi (300 Deg)	None						134
64 Structure Wi (330 Deg)	None						134
65 Structure Wm (0 Deg)	None						134
66 Structure Wm (30 Deg)	None						134
67 Structure Wm (60 Deg)	None						134
68 Structure Wm (90 Deg)	None						134
69 Structure Wm (120 Deg)	None						134
70 Structure Wm (150 Deg)	None						134
71 Structure Wm (180 Deg)	None						134
72 Structure Wm (210 Deg)	None						134
73 Structure Wm (240 Deg)	None						134
74 Structure Wm (270 Deg)	None						134
75 Structure Wm (300 Deg)	None						134
76 Structure Wm (330 Deg)	None						134
77 Lm1	None					1	
78 Lm2	None					1	
79 Lv1	None					1	
80 Lv2	None					1	
81 Antenna Ev	None					96	
82 Antenna Eh (0 Deg)	None					64	
83 Antenna Eh (90 Deg)	None					64	
84 Structure Ev	ELY						7
85 Structure Eh (0 Deg)	ELZ			-03			7
86 Structure Eh (90 Deg)	ELX	.03					7
87 BLC 39 Transient Area Loads	None						77
88 BLC 40 Transient Area Loads	None						78
89 BLC 84 Transient Area Loads	None						
90 BLC 85 Transient Area Loads	None						77
91 BLC 86 Transient Area Loads	None						77

Load Combinations

Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	BLCFa...	BLC Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1								
2 1.2D+1.0Wo (30 D...	Yes	Y		1	1.2	39	1.2	4	1	42	1								
3 1.2D+1.0Wo (60 D...	Yes	Y		1	1.2	39	1.2	5	1	43	1								
4 1.2D+1.0Wo (90 D...	Yes	Y		1	1.2	39	1.2	6	1	44	1								
5 1.2D+1.0Wo (120 ...	Yes	Y		1	1.2	39	1.2	7	1	45	1								
6 1.2D+1.0Wo (150 ...	Yes	Y		1	1.2	39	1.2	8	1	46	1								
7 1.2D+1.0Wo (180 ...	Yes	Y		1	1.2	39	1.2	9	1	47	1								
8 1.2D+1.0Wo (210 ...	Yes	Y		1	1.2	39	1.2	10	1	48	1								
9 1.2D+1.0Wo (240 ...	Yes	Y		1	1.2	39	1.2	11	1	49	1								
10 1.2D+1.0Wo (270 ...	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11 1.2D+1.0Wo (300 ...	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12 1.2D+1.0Wo (330 ...	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13 1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14 1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15 1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16 1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17 1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
223	N233A	-2.605661	1.541667	-1.311929	0	
224	N234A	-2.438995	3.125	-1.600604	0	
225	N235A	-2.605661	3.125	-1.311929	0	
226	N236A	-2.438995	0.625	-1.600604	0	
227	N237A	-2.605661	0.625	-1.311929	0	
228	N238A	1.549964	0	-1.741738	0	
229	N239	-1.549964	0	-1.741738	0	
230	N240	-2.283371	0	-0.471439	0	
231	N241	-0.733407	0	2.213177	0	
232	N242	0.733407	0	2.213177	0	
233	N243	2.283371	0	-0.471439	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	C5X6.7	Beam	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
3	Standoff Horizontal	C5X6.7	Beam	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
4	Corner Channel	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074
5	TES Face Bracing	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
6	Ladder	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
7	Support Rail	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Ladder Rungs	SR 0.75	Beam	Single Angle	A36 Gr.36	Typical	.442	.016	.016	.031
9	Face Bracing	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical	.813	.227	.227	.015
10	Kicker	L1.5x1.5x2	Beam	Single Angle	A36 Gr.36	Typical	.4	.086	.086	.002
11	Crossmember	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
12	Corner Plate	PL3/8x8	Beam	RECT	A36 Gr.36	Typical	3	.035	16	.136
13	HHS MP Connector	HSS3X3X3	Beam	SquareTube	A500 Gr. B 42	Typical	1.89	2.46	2.46	4.03
14	Corner HHS	HSS2X2X4	Beam	SquareTube	A500 Gr. B 42	Typical	1.51	.747	.747	1.31
15	Pipe MP Connector	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FAVE	N3	N1		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
2	M2	N1	N2		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
3	M3	N2	N7		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
4	M4	N7	N5		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
5	M5	N5	N4		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
6	M6	N4	N3		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
7	M7	N12	N11		180	Standoff Horizontal	Beam	Channel	A36 Gr.36	Typical
8	M8	N12A	N11A		180	Standoff Horizontal	Beam	Channel	A36 Gr.36	Typical
9	M9	N14	N13		180	Standoff Horizontal	Beam	Channel	A36 Gr.36	Typical
10	M13	N25	N26		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
11	M14	N15	N25			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
12	M15	N20	N26			RIGID	None	None	RIGID	Typical
13	M14A	N25A	N26A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
14	M16	N22	N25A			RIGID	None	None	RIGID	Typical
15	M17	N23	N26A			RIGID	None	None	RIGID	Typical
16	M18	N32	N33		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
17	M20	N29	N32			RIGID	None	None	RIGID	Typical
18	M21	N30	N33			RIGID	None	None	RIGID	Typical
19	M25	N61	N60		90	Support Rail	Beam	Single Angle	A36 Gr.36	Typical
20	M26	N57	N56		90	Support Rail	Beam	Single Angle	A36 Gr.36	Typical
21	M27	N59	N58		90	Support Rail	Beam	Single Angle	A36 Gr.36	Typical
22	M32	N50	N55A			RIGID	None	None	RIGID	Typical
23	M33	N51	N56A			RIGID	None	None	RIGID	Typical
24	M34	N56A	N55A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
25	M40	N52	N64			RIGID	None	None	RIGID	Typical
26	M41	N53	N65			RIGID	None	None	RIGID	Typical
27	M42	N65	N64		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
28	M48	N54	N75			RIGID	None	None	RIGID	Typical
29	M49	N55	N76			RIGID	None	None	RIGID	Typical
30	M50	N76	N75		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
31	M52	N82	N83		270	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
32	M53	N80A	N81A		180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
33	M54	N85	N84		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
34	M55	N86	N87		270	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
35	M56	N88	N89		180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
36	M57	N82	N89			Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
37	M58	N80A	N87		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
38	M61	N95	N94		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
39	M96	N154	N158			RIGID	None	None	RIGID	Typical
40	LIVE1	N152	N157			RIGID	None	None	RIGID	Typical
41	MP1A	N160	N159			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
42	M127	N221	N220		180	Standoff Horizontal	Beam	Channel	A36 Gr.36	Typical
43	M128	N220A	N222			Ladder	Beam	Single Angle	A36 Gr.36	Typical
44	M129	N225	N227		90	Ladder	Beam	Single Angle	A36 Gr.36	Typical
45	M130	N228	N226		90	Ladder	Beam	Single Angle	A36 Gr.36	Typical
46	M131	N229	N238			Ladder Rungs	Beam	Single Angle	A36 Gr.36	Typical
47	M132	N237	N230			Ladder Rungs	Beam	Single Angle	A36 Gr.36	Typical
48	M133	N231	N236			Ladder Rungs	Beam	Single Angle	A36 Gr.36	Typical
49	M134	N235	N232			Ladder Rungs	Beam	Single Angle	A36 Gr.36	Typical
50	M135	N233	N234			Ladder Rungs	Beam	Single Angle	A36 Gr.36	Typical
51	M69	N92	N93		30	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
52	M70	N90	N91		300	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
53	M71	N95	N94		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
54	M72	N96	N97		30	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
55	M73	N98	N99		300	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
56	M74	N92	N99			Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
57	M75	N90	N97		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
58	M76	N102	N103		150	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
59	M77	N100	N101		60	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
60	M78	N105	N104		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
61	M79	N106	N107		150	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
62	M80	N108	N109		60	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
63	M81	N102	N109			Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
64	M82	N100	N107		90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
65	M77A	N145A	N147			RIGID	None	None	RIGID	Typical
66	M78A	N144	N146A			RIGID	None	None	RIGID	Typical
67	MP2A	N149	N148A			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
68	M80A	N151	N153			RIGID	None	None	RIGID	Typical



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...	Inactive	Seismic ...
6	M6						Yes			None
7	M7						Yes			None
8	M8						Yes			None
9	M9						Yes			None
10	M13						Yes			None
11	M14						Yes	** NA **		None
12	M15						Yes	** NA **		None
13	M14A						Yes			None
14	M16						Yes	** NA **		None
15	M17						Yes	** NA **		None
16	M18						Yes			None
17	M20						Yes	** NA **		None
18	M21						Yes	** NA **		None
19	M25						Yes			None
20	M26						Yes			None
21	M27						Yes			None
22	M32						Yes	** NA **		None
23	M33						Yes	** NA **		None
24	M34						Yes			None
25	M40						Yes	** NA **		None
26	M41						Yes	** NA **		None
27	M42						Yes			None
28	M48						Yes	** NA **		None
29	M49						Yes	** NA **		None
30	M50						Yes			None
31	M52	OOOOOX					Yes			None
32	M53	OOOOXO					Yes			None
33	M54						Yes			None
34	M55	OOOOOX					Yes			None
35	M56	OOOOXO					Yes			None
36	M57						Yes			None
37	M58						Yes			None
38	M61						Yes			None
39	M96		OOOOOO				Yes	** NA **		None
40	LIVE1		OOOOOO				Yes	** NA **		None
41	MP1A						Yes	Default		None
42	M127						Yes			None
43	M128						Yes			None
44	M129						Yes			None
45	M130						Yes			None
46	M131	BenPIN	BenPIN				Yes			None
47	M132	BenPIN	BenPIN				Yes			None
48	M133	BenPIN	BenPIN				Yes			None
49	M134	BenPIN	BenPIN				Yes			None
50	M135	BenPIN	BenPIN				Yes			None
51	M69	OOOOOX					Yes			None
52	M70	OOOOXO					Yes			None
53	M71						Yes			None
54	M72	OOOOOX					Yes			None
55	M73	OOOOXO					Yes			None
56	M74						Yes			None
57	M75						Yes			None
58	M76	OOOOOX					Yes			None
59	M77	OOOOXO					Yes			None
60	M78						Yes			None
61	M79	OOOOOX					Yes			None
62	M80	OOOOXO					Yes			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...	Inactive	Seismic ...
63	M81						Yes			None
64	M82						Yes			None
65	M77A		000000				Yes	** NA **		None
66	M78A		000000				Yes	** NA **		None
67	MP2A						Yes	Default		None
68	M80A		000000				Yes	** NA **		None
69	M81A		000000				Yes	** NA **		None
70	MP3A						Yes	Default		None
71	M83		000000				Yes	** NA **		None
72	LIVE2		000000				Yes	** NA **		None
73	MP4A						Yes	Default		None
74	M86		000000				Yes	** NA **		None
75	M87		000000				Yes	** NA **		None
76	MP1C						Yes	Default		None
77	M89		000000				Yes	** NA **		None
78	M90		000000				Yes	** NA **		None
79	MP2C						Yes	Default		None
80	M92		000000				Yes	** NA **		None
81	M93		000000				Yes	** NA **		None
82	MP3C						Yes	Default		None
83	M95		000000				Yes	** NA **		None
84	M96A		000000				Yes	** NA **		None
85	MP4C						Yes	Default		None
86	M98		000000				Yes	** NA **		None
87	M99		000000				Yes	** NA **		None
88	MP1B						Yes	Default		None
89	M101		000000				Yes	** NA **		None
90	M102		000000				Yes	** NA **		None
91	MP2B						Yes	Default		None
92	M104		000000				Yes	** NA **		None
93	M105		000000				Yes	** NA **		None
94	MP3B						Yes	Default		None
95	M107		000000				Yes	** NA **		None
96	M108		000000				Yes	** NA **		None
97	MP4B						Yes	Default		None
98	M110		000X00				Yes	** NA **		None
99	M111		000X00				Yes	** NA **		None
100	M112		000X00				Yes	** NA **		None
101	M113		000X00				Yes	** NA **		None
102	RADIOA						Yes			None
103	M115						Yes			None
104	M116		000X00				Yes	** NA **		None
105	M117		000X00				Yes	** NA **		None
106	M118		000X00				Yes	** NA **		None
107	M119		000X00				Yes	** NA **		None
108	RADIOC						Yes			None
109	M121						Yes			None
110	M122		000X00				Yes	** NA **		None
111	M123		000X00				Yes	** NA **		None
112	M124		000X00				Yes	** NA **		None
113	M125		000X00				Yes	** NA **		None
114	RADIOB						Yes			None
115	M127A						Yes			None



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-17.6	5.5
2	MP2A	My	.019	5.5
3	MP2A	Mz	-.001	5.5
4	MP2A	Y	-17.6	5.5
5	MP2A	My	.015	5.5
6	MP2A	Mz	.01	5.5
7	MP1A	Y	-43.55	1.75
8	MP1A	My	-.021	1.75
9	MP1A	Mz	-.006	1.75
10	MP1A	Y	-43.55	3.75
11	MP1A	My	-.021	3.75
12	MP1A	Mz	-.006	3.75
13	MP1B	Y	-43.55	1.75
14	MP1B	My	.015	1.75
15	MP1B	Mz	-.015	1.75
16	MP1B	Y	-43.55	3.75
17	MP1B	My	.015	3.75
18	MP1B	Mz	-.015	3.75
19	MP1C	Y	-43.55	1.75
20	MP1C	My	.006	1.75
21	MP1C	Mz	.021	1.75
22	MP1C	Y	-43.55	3.75
23	MP1C	My	.006	3.75
24	MP1C	Mz	.021	3.75
25	MP4A	Y	-9	.25
26	MP4A	My	-.004	.25
27	MP4A	Mz	-.001	.25
28	MP4A	Y	-9	5.25
29	MP4A	My	-.004	5.25
30	MP4A	Mz	-.001	5.25
31	MP4B	Y	-9	.25
32	MP4B	My	.003	.25
33	MP4B	Mz	-.003	.25
34	MP4B	Y	-9	5.25
35	MP4B	My	.003	5.25
36	MP4B	Mz	-.003	5.25
37	MP4C	Y	-9	.25
38	MP4C	My	.001	.25
39	MP4C	Mz	.004	.25
40	MP4C	Y	-9	5.25
41	MP4C	My	.001	5.25
42	MP4C	Mz	.004	5.25
43	MP2A	Y	-32.5	.25
44	MP2A	My	-.011	.25
45	MP2A	Mz	-.023	.25
46	MP2A	Y	-32.5	5.25
47	MP2A	My	-.011	5.25
48	MP2A	Mz	-.023	5.25
49	MP2B	Y	-32.5	.25
50	MP2B	My	.025	.25
51	MP2B	Mz	.002	.25
52	MP2B	Y	-32.5	5.25
53	MP2B	My	.025	5.25
54	MP2B	Mz	.002	5.25
55	MP2C	Y	-32.5	.25
56	MP2C	My	-.014	.25

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
57	MP2C	Mz	.021	.25
58	MP2C	Y	-32.5	5.25
59	MP2C	My	-.014	5.25
60	MP2C	Mz	.021	5.25
61	MP2A	Y	-32.5	.25
62	MP2A	My	-.021	.25
63	MP2A	Mz	.014	.25
64	MP2A	Y	-32.5	5.25
65	MP2A	My	-.021	5.25
66	MP2A	Mz	.014	5.25
67	MP2B	Y	-32.5	.25
68	MP2B	My	-.002	.25
69	MP2B	Mz	-.025	.25
70	MP2B	Y	-32.5	5.25
71	MP2B	My	-.002	5.25
72	MP2B	Mz	-.025	5.25
73	MP2C	Y	-32.5	.25
74	MP2C	My	.023	.25
75	MP2C	Mz	.011	.25
76	MP2C	Y	-32.5	5.25
77	MP2C	My	.023	5.25
78	MP2C	Mz	.011	5.25
79	RADIOA	Y	-84.4	.5
80	RADIOA	My	0	.5
81	RADIOA	Mz	0	.5
82	MP1A	Y	-70.3	.5
83	MP1A	My	.009	.5
84	MP1A	Mz	-.034	.5
85	MP1B	Y	-70.3	.5
86	MP1B	My	.025	.5
87	MP1B	Mz	.025	.5
88	MP1C	Y	-70.3	.5
89	MP1C	My	-.034	.5
90	MP1C	Mz	.009	.5
91	RADIOB	Y	-84.4	.5
92	RADIOB	My	0	.5
93	RADIOB	Mz	0	.5
94	RADIOC	Y	-84.4	.5
95	RADIOC	My	0	.5
96	RADIOC	Mz	0	.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	Y	6.6	5.5
2	MP2A	My	-.007	5.5
3	MP2A	Mz	.000417	5.5
4	MP2A	Y	6.6	5.5
5	MP2A	My	-.006	5.5
6	MP2A	Mz	-.004	5.5
7	MP1A	Y	-34.277	1.75
8	MP1A	My	-.017	1.75
9	MP1A	Mz	-.004	1.75
10	MP1A	Y	-34.277	3.75
11	MP1A	My	-.017	3.75
12	MP1A	Mz	-.004	3.75
13	MP1B	Y	-34.277	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
14	MP1B	My	.012	1.75
15	MP1B	Mz	-.012	1.75
16	MP1B	Y	-34.277	3.75
17	MP1B	My	.012	3.75
18	MP1B	Mz	-.012	3.75
19	MP1C	Y	-34.277	1.75
20	MP1C	My	.004	1.75
21	MP1C	Mz	.017	1.75
22	MP1C	Y	-34.277	3.75
23	MP1C	My	.004	3.75
24	MP1C	Mz	.017	3.75
25	MP4A	Y	-42.833	.25
26	MP4A	My	-.021	.25
27	MP4A	Mz	-.006	.25
28	MP4A	Y	-42.833	5.25
29	MP4A	My	-.021	5.25
30	MP4A	Mz	-.006	5.25
31	MP4B	Y	-42.833	.25
32	MP4B	My	.015	.25
33	MP4B	Mz	-.015	.25
34	MP4B	Y	-42.833	5.25
35	MP4B	My	.015	5.25
36	MP4B	Mz	-.015	5.25
37	MP4C	Y	-42.833	.25
38	MP4C	My	.006	.25
39	MP4C	Mz	.021	.25
40	MP4C	Y	-42.833	5.25
41	MP4C	My	.006	5.25
42	MP4C	Mz	.021	5.25
43	MP2A	Y	-66.376	.25
44	MP2A	My	-.022	.25
45	MP2A	Mz	-.046	.25
46	MP2A	Y	-66.376	5.25
47	MP2A	My	-.022	5.25
48	MP2A	Mz	-.046	5.25
49	MP2B	Y	-66.376	.25
50	MP2B	My	.051	.25
51	MP2B	Mz	.004	.25
52	MP2B	Y	-66.376	5.25
53	MP2B	My	.051	5.25
54	MP2B	Mz	.004	5.25
55	MP2C	Y	-66.376	.25
56	MP2C	My	-.029	.25
57	MP2C	Mz	.042	.25
58	MP2C	Y	-66.376	5.25
59	MP2C	My	-.029	5.25
60	MP2C	Mz	.042	5.25
61	MP2A	Y	-66.376	.25
62	MP2A	My	-.042	.25
63	MP2A	Mz	.029	.25
64	MP2A	Y	-66.376	5.25
65	MP2A	My	-.042	5.25
66	MP2A	Mz	.029	5.25
67	MP2B	Y	-66.376	.25
68	MP2B	My	-.004	.25
69	MP2B	Mz	-.051	.25
70	MP2B	Y	-66.376	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
71	MP2B	My	-.004	5.25
72	MP2B	Mz	-.051	5.25
73	MP2C	Y	-66.376	.25
74	MP2C	My	.046	.25
75	MP2C	Mz	.022	.25
76	MP2C	Y	-66.376	5.25
77	MP2C	My	.046	5.25
78	MP2C	Mz	.022	5.25
79	RADIOA	Y	-43.192	.5
80	RADIOA	My	0	.5
81	RADIOA	Mz	0	.5
82	MP1A	Y	-38.832	.5
83	MP1A	My	.005	.5
84	MP1A	Mz	-.019	.5
85	MP1B	Y	-38.832	.5
86	MP1B	My	.014	.5
87	MP1B	Mz	.014	.5
88	MP1C	Y	-38.832	.5
89	MP1C	My	-.019	.5
90	MP1C	Mz	.005	.5
91	RADIOB	Y	-43.192	.5
92	RADIOB	My	0	.5
93	RADIOB	Mz	0	.5
94	RADIOC	Y	-43.192	.5
95	RADIOC	My	0	.5
96	RADIOC	Mz	0	.5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	0	5.5
2	MP2A	Z	-36.861	5.5
3	MP2A	Mx	.002	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	-36.861	5.5
6	MP2A	Mx	-.021	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	-71.939	1.75
9	MP1A	Mx	.009	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	-71.939	3.75
12	MP1A	Mx	.009	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	-50.578	1.75
15	MP1B	Mx	.018	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	-50.578	3.75
18	MP1B	Mx	.018	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	-29.217	1.75
21	MP1C	Mx	-.014	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	-29.217	3.75
24	MP1C	Mx	-.014	3.75
25	MP4A	X	0	.25
26	MP4A	Z	-109.02	.25
27	MP4A	Mx	.014	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	MP4A	X	0	5.25
29	MP4A	Z	-109.02	5.25
30	MP4A	Mx	.014	5.25
31	MP4B	X	0	.25
32	MP4B	Z	-99.052	.25
33	MP4B	Mx	.035	.25
34	MP4B	X	0	5.25
35	MP4B	Z	-99.052	5.25
36	MP4B	Mx	.035	5.25
37	MP4C	X	0	.25
38	MP4C	Z	-89.085	.25
39	MP4C	Mx	-.043	.25
40	MP4C	X	0	5.25
41	MP4C	Z	-89.085	5.25
42	MP4C	Mx	-.043	5.25
43	MP2A	X	0	.25
44	MP2A	Z	-154.344	.25
45	MP2A	Mx	.107	.25
46	MP2A	X	0	5.25
47	MP2A	Z	-154.344	5.25
48	MP2A	Mx	.107	5.25
49	MP2B	X	0	.25
50	MP2B	Z	-143.289	.25
51	MP2B	Mx	-.008	.25
52	MP2B	X	0	5.25
53	MP2B	Z	-143.289	5.25
54	MP2B	Mx	-.008	5.25
55	MP2C	X	0	.25
56	MP2C	Z	-132.235	.25
57	MP2C	Mx	-.084	.25
58	MP2C	X	0	5.25
59	MP2C	Z	-132.235	5.25
60	MP2C	Mx	-.084	5.25
61	MP2A	X	0	.25
62	MP2A	Z	-154.344	.25
63	MP2A	Mx	-.067	.25
64	MP2A	X	0	5.25
65	MP2A	Z	-154.344	5.25
66	MP2A	Mx	-.067	5.25
67	MP2B	X	0	.25
68	MP2B	Z	-143.289	.25
69	MP2B	Mx	.11	.25
70	MP2B	X	0	5.25
71	MP2B	Z	-143.289	5.25
72	MP2B	Mx	.11	5.25
73	MP2C	X	0	.25
74	MP2C	Z	-132.235	.25
75	MP2C	Mx	-.044	.25
76	MP2C	X	0	5.25
77	MP2C	Z	-132.235	5.25
78	MP2C	Mx	-.044	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	-58.192	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	-57.704	.5
84	MP1A	Mx	.028	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
85	MP1B	X	0	.5
86	MP1B	Z	-46.068	.5
87	MP1B	Mx	-.016	.5
88	MP1C	X	0	.5
89	MP1C	Z	-34.431	.5
90	MP1C	Mx	-.004	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	-58.192	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	-58.192	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	18.431	5.5
2	MP2A	Z	-31.923	5.5
3	MP2A	Mx	.021	5.5
4	MP2A	X	18.431	5.5
5	MP2A	Z	-31.923	5.5
6	MP2A	Mx	-.002	5.5
7	MP1A	X	35.97	1.75
8	MP1A	Z	-62.301	1.75
9	MP1A	Mx	-.009	1.75
10	MP1A	X	35.97	3.75
11	MP1A	Z	-62.301	3.75
12	MP1A	Mx	-.009	3.75
13	MP1B	X	14.609	1.75
14	MP1B	Z	-25.303	1.75
15	MP1B	Mx	.014	1.75
16	MP1B	X	14.609	3.75
17	MP1B	Z	-25.303	3.75
18	MP1B	Mx	.014	3.75
19	MP1C	X	25.289	1.75
20	MP1C	Z	-43.802	1.75
21	MP1C	Mx	-.018	1.75
22	MP1C	X	25.289	3.75
23	MP1C	Z	-43.802	3.75
24	MP1C	Mx	-.018	3.75
25	MP4A	X	54.51	.25
26	MP4A	Z	-94.414	.25
27	MP4A	Mx	-.014	.25
28	MP4A	X	54.51	5.25
29	MP4A	Z	-94.414	5.25
30	MP4A	Mx	-.014	5.25
31	MP4B	X	44.542	.25
32	MP4B	Z	-77.15	.25
33	MP4B	Mx	.043	.25
34	MP4B	X	44.542	5.25
35	MP4B	Z	-77.15	5.25
36	MP4B	Mx	.043	5.25
37	MP4C	X	49.526	.25
38	MP4C	Z	-85.782	.25
39	MP4C	Mx	-.035	.25
40	MP4C	X	49.526	5.25
41	MP4C	Z	-85.782	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4C	Mx	-.035	5.25
43	MP2A	X	77.172	.25
44	MP2A	Z	-133.665	.25
45	MP2A	Mx	.067	.25
46	MP2A	X	77.172	5.25
47	MP2A	Z	-133.665	5.25
48	MP2A	Mx	.067	5.25
49	MP2B	X	66.117	.25
50	MP2B	Z	-114.519	.25
51	MP2B	Mx	.044	.25
52	MP2B	X	66.117	5.25
53	MP2B	Z	-114.519	5.25
54	MP2B	Mx	.044	5.25
55	MP2C	X	71.645	.25
56	MP2C	Z	-124.092	.25
57	MP2C	Mx	-.11	.25
58	MP2C	X	71.645	5.25
59	MP2C	Z	-124.092	5.25
60	MP2C	Mx	-.11	5.25
61	MP2A	X	77.172	.25
62	MP2A	Z	-133.665	.25
63	MP2A	Mx	-.107	.25
64	MP2A	X	77.172	5.25
65	MP2A	Z	-133.665	5.25
66	MP2A	Mx	-.107	5.25
67	MP2B	X	66.117	.25
68	MP2B	Z	-114.519	.25
69	MP2B	Mx	.084	.25
70	MP2B	X	66.117	5.25
71	MP2B	Z	-114.519	5.25
72	MP2B	Mx	.084	5.25
73	MP2C	X	71.645	.25
74	MP2C	Z	-124.092	.25
75	MP2C	Mx	.008	.25
76	MP2C	X	71.645	5.25
77	MP2C	Z	-124.092	5.25
78	MP2C	Mx	.008	5.25
79	RADIOA	X	24.857	.5
80	RADIOA	Z	-43.054	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	28.852	.5
83	MP1A	Z	-49.973	.5
84	MP1A	Mx	.028	.5
85	MP1B	X	17.216	.5
86	MP1B	Z	-29.818	.5
87	MP1B	Mx	-.004	.5
88	MP1C	X	23.034	.5
89	MP1C	Z	-39.896	.5
90	MP1C	Mx	-.016	.5
91	RADIOB	X	24.857	.5
92	RADIOB	Z	-43.054	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	24.857	.5
95	RADIOC	Z	-43.054	.5
96	RADIOC	Mx	0	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	31.964	5.5
2	MP2A	Z	-18.454	5.5
3	MP2A	Mx	.035	5.5
4	MP2A	X	31.964	5.5
5	MP2A	Z	-18.454	5.5
6	MP2A	Mx	.017	5.5
7	MP1A	X	43.802	1.75
8	MP1A	Z	-25.289	1.75
9	MP1A	Mx	-.018	1.75
10	MP1A	X	43.802	3.75
11	MP1A	Z	-25.289	3.75
12	MP1A	Mx	-.018	3.75
13	MP1B	X	25.303	1.75
14	MP1B	Z	-14.609	1.75
15	MP1B	Mx	.014	1.75
16	MP1B	X	25.303	3.75
17	MP1B	Z	-14.609	3.75
18	MP1B	Mx	.014	3.75
19	MP1C	X	62.301	1.75
20	MP1C	Z	-35.97	1.75
21	MP1C	Mx	-.009	1.75
22	MP1C	X	62.301	3.75
23	MP1C	Z	-35.97	3.75
24	MP1C	Mx	-.009	3.75
25	MP4A	X	85.782	.25
26	MP4A	Z	-49.526	.25
27	MP4A	Mx	-.035	.25
28	MP4A	X	85.782	5.25
29	MP4A	Z	-49.526	5.25
30	MP4A	Mx	-.035	5.25
31	MP4B	X	77.15	.25
32	MP4B	Z	-44.542	.25
33	MP4B	Mx	.043	.25
34	MP4B	X	77.15	5.25
35	MP4B	Z	-44.542	5.25
36	MP4B	Mx	.043	5.25
37	MP4C	X	94.414	.25
38	MP4C	Z	-54.51	.25
39	MP4C	Mx	-.014	.25
40	MP4C	X	94.414	5.25
41	MP4C	Z	-54.51	5.25
42	MP4C	Mx	-.014	5.25
43	MP2A	X	124.092	.25
44	MP2A	Z	-71.645	.25
45	MP2A	Mx	.008	.25
46	MP2A	X	124.092	5.25
47	MP2A	Z	-71.645	5.25
48	MP2A	Mx	.008	5.25
49	MP2B	X	114.519	.25
50	MP2B	Z	-66.117	.25
51	MP2B	Mx	.084	.25
52	MP2B	X	114.519	5.25
53	MP2B	Z	-66.117	5.25
54	MP2B	Mx	.084	5.25
55	MP2C	X	133.665	.25
56	MP2C	Z	-77.172	.25
57	MP2C	Mx	-.107	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	133.665	5.25
59	MP2C	Z	-77.172	5.25
60	MP2C	Mx	-.107	5.25
61	MP2A	X	124.092	.25
62	MP2A	Z	-71.645	.25
63	MP2A	Mx	-.11	.25
64	MP2A	X	124.092	5.25
65	MP2A	Z	-71.645	5.25
66	MP2A	Mx	-.11	5.25
67	MP2B	X	114.519	.25
68	MP2B	Z	-66.117	.25
69	MP2B	Mx	.044	.25
70	MP2B	X	114.519	5.25
71	MP2B	Z	-66.117	5.25
72	MP2B	Mx	.044	5.25
73	MP2C	X	133.665	.25
74	MP2C	Z	-77.172	.25
75	MP2C	Mx	.067	.25
76	MP2C	X	133.665	5.25
77	MP2C	Z	-77.172	5.25
78	MP2C	Mx	.067	5.25
79	RADIOA	X	35.712	.5
80	RADIOA	Z	-20.618	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	39.896	.5
83	MP1A	Z	-23.034	.5
84	MP1A	Mx	.016	.5
85	MP1B	X	29.818	.5
86	MP1B	Z	-17.216	.5
87	MP1B	Mx	.004	.5
88	MP1C	X	49.973	.5
89	MP1C	Z	-28.852	.5
90	MP1C	Mx	-.028	.5
91	RADIOB	X	35.712	.5
92	RADIOB	Z	-20.618	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	35.712	.5
95	RADIOC	Z	-20.618	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	36.955	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	.039	5.5
4	MP2A	X	36.955	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.033	5.5
7	MP1A	X	29.217	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	-.014	1.75
10	MP1A	X	29.217	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	-.014	3.75
13	MP1B	X	50.578	1.75
14	MP1B	Z	0	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.018	1.75
16	MP1B	X	50.578	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	.018	3.75
19	MP1C	X	71.939	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	.009	1.75
22	MP1C	X	71.939	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	.009	3.75
25	MP4A	X	89.085	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	-.043	.25
28	MP4A	X	89.085	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	-.043	5.25
31	MP4B	X	99.052	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	.035	.25
34	MP4B	X	99.052	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	.035	5.25
37	MP4C	X	109.02	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	.014	.25
40	MP4C	X	109.02	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	.014	5.25
43	MP2A	X	132.235	.25
44	MP2A	Z	0	.25
45	MP2A	Mx	-.044	.25
46	MP2A	X	132.235	5.25
47	MP2A	Z	0	5.25
48	MP2A	Mx	-.044	5.25
49	MP2B	X	143.289	.25
50	MP2B	Z	0	.25
51	MP2B	Mx	.11	.25
52	MP2B	X	143.289	5.25
53	MP2B	Z	0	5.25
54	MP2B	Mx	.11	5.25
55	MP2C	X	154.344	.25
56	MP2C	Z	0	.25
57	MP2C	Mx	-.067	.25
58	MP2C	X	154.344	5.25
59	MP2C	Z	0	5.25
60	MP2C	Mx	-.067	5.25
61	MP2A	X	132.235	.25
62	MP2A	Z	0	.25
63	MP2A	Mx	-.084	.25
64	MP2A	X	132.235	5.25
65	MP2A	Z	0	5.25
66	MP2A	Mx	-.084	5.25
67	MP2B	X	143.289	.25
68	MP2B	Z	0	.25
69	MP2B	Mx	-.008	.25
70	MP2B	X	143.289	5.25
71	MP2B	Z	0	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	44.542	5.25
30	MP4A	Mx	-.043	5.25
31	MP4B	X	94.414	.25
32	MP4B	Z	54.51	.25
33	MP4B	Mx	.014	.25
34	MP4B	X	94.414	5.25
35	MP4B	Z	54.51	5.25
36	MP4B	Mx	.014	5.25
37	MP4C	X	85.782	.25
38	MP4C	Z	49.526	.25
39	MP4C	Mx	.035	.25
40	MP4C	X	85.782	5.25
41	MP4C	Z	49.526	5.25
42	MP4C	Mx	.035	5.25
43	MP2A	X	114.519	.25
44	MP2A	Z	66.117	.25
45	MP2A	Mx	-.084	.25
46	MP2A	X	114.519	5.25
47	MP2A	Z	66.117	5.25
48	MP2A	Mx	-.084	5.25
49	MP2B	X	133.665	.25
50	MP2B	Z	77.172	.25
51	MP2B	Mx	.107	.25
52	MP2B	X	133.665	5.25
53	MP2B	Z	77.172	5.25
54	MP2B	Mx	.107	5.25
55	MP2C	X	124.092	.25
56	MP2C	Z	71.645	.25
57	MP2C	Mx	-.008	.25
58	MP2C	X	124.092	5.25
59	MP2C	Z	71.645	5.25
60	MP2C	Mx	-.008	5.25
61	MP2A	X	114.519	.25
62	MP2A	Z	66.117	.25
63	MP2A	Mx	-.044	.25
64	MP2A	X	114.519	5.25
65	MP2A	Z	66.117	5.25
66	MP2A	Mx	-.044	5.25
67	MP2B	X	133.665	.25
68	MP2B	Z	77.172	.25
69	MP2B	Mx	-.067	.25
70	MP2B	X	133.665	5.25
71	MP2B	Z	77.172	5.25
72	MP2B	Mx	-.067	5.25
73	MP2C	X	124.092	.25
74	MP2C	Z	71.645	.25
75	MP2C	Mx	.11	.25
76	MP2C	X	124.092	5.25
77	MP2C	Z	71.645	5.25
78	MP2C	Mx	.11	5.25
79	RADIOA	X	43.054	.5
80	RADIOA	Z	24.857	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	29.818	.5
83	MP1A	Z	17.216	.5
84	MP1A	Mx	-.004	.5
85	MP1B	X	49.973	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	28.852	.5
87	MP1B	Mx	.028	.5
88	MP1C	X	39.896	.5
89	MP1C	Z	23.034	.5
90	MP1C	Mx	-.016	.5
91	RADIOB	X	43.054	.5
92	RADIOB	Z	24.857	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	43.054	.5
95	RADIOC	Z	24.857	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	18.454	5.5
2	MP2A	Z	31.964	5.5
3	MP2A	Mx	.017	5.5
4	MP2A	X	18.454	5.5
5	MP2A	Z	31.964	5.5
6	MP2A	Mx	.035	5.5
7	MP1A	X	25.289	1.75
8	MP1A	Z	43.802	1.75
9	MP1A	Mx	-.018	1.75
10	MP1A	X	25.289	3.75
11	MP1A	Z	43.802	3.75
12	MP1A	Mx	-.018	3.75
13	MP1B	X	35.97	1.75
14	MP1B	Z	62.301	1.75
15	MP1B	Mx	-.009	1.75
16	MP1B	X	35.97	3.75
17	MP1B	Z	62.301	3.75
18	MP1B	Mx	-.009	3.75
19	MP1C	X	14.609	1.75
20	MP1C	Z	25.303	1.75
21	MP1C	Mx	.014	1.75
22	MP1C	X	14.609	3.75
23	MP1C	Z	25.303	3.75
24	MP1C	Mx	.014	3.75
25	MP4A	X	49.526	.25
26	MP4A	Z	85.782	.25
27	MP4A	Mx	-.035	.25
28	MP4A	X	49.526	5.25
29	MP4A	Z	85.782	5.25
30	MP4A	Mx	-.035	5.25
31	MP4B	X	54.51	.25
32	MP4B	Z	94.414	.25
33	MP4B	Mx	-.014	.25
34	MP4B	X	54.51	5.25
35	MP4B	Z	94.414	5.25
36	MP4B	Mx	-.014	5.25
37	MP4C	X	44.542	.25
38	MP4C	Z	77.15	.25
39	MP4C	Mx	.043	.25
40	MP4C	X	44.542	5.25
41	MP4C	Z	77.15	5.25
42	MP4C	Mx	.043	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2A	X	71.645	.25
44	MP2A	Z	124.092	.25
45	MP2A	Mx	-.11	.25
46	MP2A	X	71.645	5.25
47	MP2A	Z	124.092	5.25
48	MP2A	Mx	-.11	5.25
49	MP2B	X	77.172	.25
50	MP2B	Z	133.665	.25
51	MP2B	Mx	.067	.25
52	MP2B	X	77.172	5.25
53	MP2B	Z	133.665	5.25
54	MP2B	Mx	.067	5.25
55	MP2C	X	66.117	.25
56	MP2C	Z	114.519	.25
57	MP2C	Mx	.044	.25
58	MP2C	X	66.117	5.25
59	MP2C	Z	114.519	5.25
60	MP2C	Mx	.044	5.25
61	MP2A	X	71.645	.25
62	MP2A	Z	124.092	.25
63	MP2A	Mx	.008	.25
64	MP2A	X	71.645	5.25
65	MP2A	Z	124.092	5.25
66	MP2A	Mx	.008	5.25
67	MP2B	X	77.172	.25
68	MP2B	Z	133.665	.25
69	MP2B	Mx	-.107	.25
70	MP2B	X	77.172	5.25
71	MP2B	Z	133.665	5.25
72	MP2B	Mx	-.107	5.25
73	MP2C	X	66.117	.25
74	MP2C	Z	114.519	.25
75	MP2C	Mx	.084	.25
76	MP2C	X	66.117	5.25
77	MP2C	Z	114.519	5.25
78	MP2C	Mx	.084	5.25
79	RADIOA	X	29.096	.5
80	RADIOA	Z	50.396	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	23.034	.5
83	MP1A	Z	39.896	.5
84	MP1A	Mx	-.016	.5
85	MP1B	X	28.852	.5
86	MP1B	Z	49.973	.5
87	MP1B	Mx	.028	.5
88	MP1C	X	17.216	.5
89	MP1C	Z	29.818	.5
90	MP1C	Mx	-.004	.5
91	RADIOB	X	29.096	.5
92	RADIOB	Z	50.396	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	29.096	.5
95	RADIOC	Z	50.396	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	5.5
2	MP2A	Z	36.861	5.5
3	MP2A	Mx	-.002	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	36.861	5.5
6	MP2A	Mx	.021	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	71.939	1.75
9	MP1A	Mx	-.009	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	71.939	3.75
12	MP1A	Mx	-.009	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	50.578	1.75
15	MP1B	Mx	-.018	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	50.578	3.75
18	MP1B	Mx	-.018	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	29.217	1.75
21	MP1C	Mx	.014	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	29.217	3.75
24	MP1C	Mx	.014	3.75
25	MP4A	X	0	.25
26	MP4A	Z	109.02	.25
27	MP4A	Mx	-.014	.25
28	MP4A	X	0	5.25
29	MP4A	Z	109.02	5.25
30	MP4A	Mx	-.014	5.25
31	MP4B	X	0	.25
32	MP4B	Z	99.052	.25
33	MP4B	Mx	-.035	.25
34	MP4B	X	0	5.25
35	MP4B	Z	99.052	5.25
36	MP4B	Mx	-.035	5.25
37	MP4C	X	0	.25
38	MP4C	Z	89.085	.25
39	MP4C	Mx	.043	.25
40	MP4C	X	0	5.25
41	MP4C	Z	89.085	5.25
42	MP4C	Mx	.043	5.25
43	MP2A	X	0	.25
44	MP2A	Z	154.344	.25
45	MP2A	Mx	-.107	.25
46	MP2A	X	0	5.25
47	MP2A	Z	154.344	5.25
48	MP2A	Mx	-.107	5.25
49	MP2B	X	0	.25
50	MP2B	Z	143.289	.25
51	MP2B	Mx	.008	.25
52	MP2B	X	0	5.25
53	MP2B	Z	143.289	5.25
54	MP2B	Mx	.008	5.25
55	MP2C	X	0	.25
56	MP2C	Z	132.235	.25
57	MP2C	Mx	.084	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	0	5.25
59	MP2C	Z	132.235	5.25
60	MP2C	Mx	.084	5.25
61	MP2A	X	0	.25
62	MP2A	Z	154.344	.25
63	MP2A	Mx	.067	.25
64	MP2A	X	0	5.25
65	MP2A	Z	154.344	5.25
66	MP2A	Mx	.067	5.25
67	MP2B	X	0	.25
68	MP2B	Z	143.289	.25
69	MP2B	Mx	-.11	.25
70	MP2B	X	0	5.25
71	MP2B	Z	143.289	5.25
72	MP2B	Mx	-.11	5.25
73	MP2C	X	0	.25
74	MP2C	Z	132.235	.25
75	MP2C	Mx	.044	.25
76	MP2C	X	0	5.25
77	MP2C	Z	132.235	5.25
78	MP2C	Mx	.044	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	58.192	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	57.704	.5
84	MP1A	Mx	-.028	.5
85	MP1B	X	0	.5
86	MP1B	Z	46.068	.5
87	MP1B	Mx	.016	.5
88	MP1C	X	0	.5
89	MP1C	Z	34.431	.5
90	MP1C	Mx	.004	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	58.192	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	58.192	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-18.431	5.5
2	MP2A	Z	31.923	5.5
3	MP2A	Mx	-.021	5.5
4	MP2A	X	-18.431	5.5
5	MP2A	Z	31.923	5.5
6	MP2A	Mx	.002	5.5
7	MP1A	X	-35.97	1.75
8	MP1A	Z	62.301	1.75
9	MP1A	Mx	.009	1.75
10	MP1A	X	-35.97	3.75
11	MP1A	Z	62.301	3.75
12	MP1A	Mx	.009	3.75
13	MP1B	X	-14.609	1.75
14	MP1B	Z	25.303	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	-.014	1.75
16	MP1B	X	-14.609	3.75
17	MP1B	Z	25.303	3.75
18	MP1B	Mx	-.014	3.75
19	MP1C	X	-25.289	1.75
20	MP1C	Z	43.802	1.75
21	MP1C	Mx	.018	1.75
22	MP1C	X	-25.289	3.75
23	MP1C	Z	43.802	3.75
24	MP1C	Mx	.018	3.75
25	MP4A	X	-54.51	.25
26	MP4A	Z	94.414	.25
27	MP4A	Mx	.014	.25
28	MP4A	X	-54.51	5.25
29	MP4A	Z	94.414	5.25
30	MP4A	Mx	.014	5.25
31	MP4B	X	-44.542	.25
32	MP4B	Z	77.15	.25
33	MP4B	Mx	-.043	.25
34	MP4B	X	-44.542	5.25
35	MP4B	Z	77.15	5.25
36	MP4B	Mx	-.043	5.25
37	MP4C	X	-49.526	.25
38	MP4C	Z	85.782	.25
39	MP4C	Mx	.035	.25
40	MP4C	X	-49.526	5.25
41	MP4C	Z	85.782	5.25
42	MP4C	Mx	.035	5.25
43	MP2A	X	-77.172	.25
44	MP2A	Z	133.665	.25
45	MP2A	Mx	-.067	.25
46	MP2A	X	-77.172	5.25
47	MP2A	Z	133.665	5.25
48	MP2A	Mx	-.067	5.25
49	MP2B	X	-66.117	.25
50	MP2B	Z	114.519	.25
51	MP2B	Mx	-.044	.25
52	MP2B	X	-66.117	5.25
53	MP2B	Z	114.519	5.25
54	MP2B	Mx	-.044	5.25
55	MP2C	X	-71.645	.25
56	MP2C	Z	124.092	.25
57	MP2C	Mx	.11	.25
58	MP2C	X	-71.645	5.25
59	MP2C	Z	124.092	5.25
60	MP2C	Mx	.11	5.25
61	MP2A	X	-77.172	.25
62	MP2A	Z	133.665	.25
63	MP2A	Mx	.107	.25
64	MP2A	X	-77.172	5.25
65	MP2A	Z	133.665	5.25
66	MP2A	Mx	.107	5.25
67	MP2B	X	-66.117	.25
68	MP2B	Z	114.519	.25
69	MP2B	Mx	-.084	.25
70	MP2B	X	-66.117	5.25
71	MP2B	Z	114.519	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
72	MP2B	Mx	-.084	5.25
73	MP2C	X	-71.645	.25
74	MP2C	Z	124.092	.25
75	MP2C	Mx	-.008	.25
76	MP2C	X	-71.645	5.25
77	MP2C	Z	124.092	5.25
78	MP2C	Mx	-.008	5.25
79	RADIOA	X	-24.857	.5
80	RADIOA	Z	43.054	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-28.852	.5
83	MP1A	Z	49.973	.5
84	MP1A	Mx	-.028	.5
85	MP1B	X	-17.216	.5
86	MP1B	Z	29.818	.5
87	MP1B	Mx	.004	.5
88	MP1C	X	-23.034	.5
89	MP1C	Z	39.896	.5
90	MP1C	Mx	.016	.5
91	RADIOB	X	-24.857	.5
92	RADIOB	Z	43.054	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-24.857	.5
95	RADIOC	Z	43.054	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	-31.964	5.5
2	MP2A	Z	18.454	5.5
3	MP2A	Mx	-.035	5.5
4	MP2A	X	-31.964	5.5
5	MP2A	Z	18.454	5.5
6	MP2A	Mx	-.017	5.5
7	MP1A	X	-43.802	1.75
8	MP1A	Z	25.289	1.75
9	MP1A	Mx	.018	1.75
10	MP1A	X	-43.802	3.75
11	MP1A	Z	25.289	3.75
12	MP1A	Mx	.018	3.75
13	MP1B	X	-25.303	1.75
14	MP1B	Z	14.609	1.75
15	MP1B	Mx	-.014	1.75
16	MP1B	X	-25.303	3.75
17	MP1B	Z	14.609	3.75
18	MP1B	Mx	-.014	3.75
19	MP1C	X	-62.301	1.75
20	MP1C	Z	35.97	1.75
21	MP1C	Mx	.009	1.75
22	MP1C	X	-62.301	3.75
23	MP1C	Z	35.97	3.75
24	MP1C	Mx	.009	3.75
25	MP4A	X	-85.782	.25
26	MP4A	Z	49.526	.25
27	MP4A	Mx	.035	.25
28	MP4A	X	-85.782	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	49.526	5.25
30	MP4A	Mx	.035	5.25
31	MP4B	X	-77.15	.25
32	MP4B	Z	44.542	.25
33	MP4B	Mx	-.043	.25
34	MP4B	X	-77.15	5.25
35	MP4B	Z	44.542	5.25
36	MP4B	Mx	-.043	5.25
37	MP4C	X	-94.414	.25
38	MP4C	Z	54.51	.25
39	MP4C	Mx	.014	.25
40	MP4C	X	-94.414	5.25
41	MP4C	Z	54.51	5.25
42	MP4C	Mx	.014	5.25
43	MP2A	X	-124.092	.25
44	MP2A	Z	71.645	.25
45	MP2A	Mx	-.008	.25
46	MP2A	X	-124.092	5.25
47	MP2A	Z	71.645	5.25
48	MP2A	Mx	-.008	5.25
49	MP2B	X	-114.519	.25
50	MP2B	Z	66.117	.25
51	MP2B	Mx	-.084	.25
52	MP2B	X	-114.519	5.25
53	MP2B	Z	66.117	5.25
54	MP2B	Mx	-.084	5.25
55	MP2C	X	-133.665	.25
56	MP2C	Z	77.172	.25
57	MP2C	Mx	.107	.25
58	MP2C	X	-133.665	5.25
59	MP2C	Z	77.172	5.25
60	MP2C	Mx	.107	5.25
61	MP2A	X	-124.092	.25
62	MP2A	Z	71.645	.25
63	MP2A	Mx	.11	.25
64	MP2A	X	-124.092	5.25
65	MP2A	Z	71.645	5.25
66	MP2A	Mx	.11	5.25
67	MP2B	X	-114.519	.25
68	MP2B	Z	66.117	.25
69	MP2B	Mx	-.044	.25
70	MP2B	X	-114.519	5.25
71	MP2B	Z	66.117	5.25
72	MP2B	Mx	-.044	5.25
73	MP2C	X	-133.665	.25
74	MP2C	Z	77.172	.25
75	MP2C	Mx	-.067	.25
76	MP2C	X	-133.665	5.25
77	MP2C	Z	77.172	5.25
78	MP2C	Mx	-.067	5.25
79	RADIOA	X	-35.712	.5
80	RADIOA	Z	20.618	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-39.896	.5
83	MP1A	Z	23.034	.5
84	MP1A	Mx	-.016	.5
85	MP1B	X	-29.818	.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	17.216	.5
87	MP1B	Mx	-.004	.5
88	MP1C	X	-49.973	.5
89	MP1C	Z	28.852	.5
90	MP1C	Mx	.028	.5
91	RADIOB	X	-35.712	.5
92	RADIOB	Z	20.618	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-35.712	.5
95	RADIOC	Z	20.618	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	-36.955	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	-.039	5.5
4	MP2A	X	-36.955	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.033	5.5
7	MP1A	X	-29.217	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	.014	1.75
10	MP1A	X	-29.217	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	.014	3.75
13	MP1B	X	-50.578	1.75
14	MP1B	Z	0	1.75
15	MP1B	Mx	-.018	1.75
16	MP1B	X	-50.578	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	-.018	3.75
19	MP1C	X	-71.939	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	-.009	1.75
22	MP1C	X	-71.939	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	-.009	3.75
25	MP4A	X	-89.085	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	.043	.25
28	MP4A	X	-89.085	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	.043	5.25
31	MP4B	X	-99.052	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	-.035	.25
34	MP4B	X	-99.052	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	-.035	5.25
37	MP4C	X	-109.02	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	-.014	.25
40	MP4C	X	-109.02	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	-.014	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-32.004	5.5
2	MP2A	Z	-18.478	5.5
3	MP2A	Mx	-.033	5.5
4	MP2A	X	-32.004	5.5
5	MP2A	Z	-18.478	5.5
6	MP2A	Mx	-.039	5.5
7	MP1A	X	-25.303	1.75
8	MP1A	Z	-14.609	1.75
9	MP1A	Mx	.014	1.75
10	MP1A	X	-25.303	3.75
11	MP1A	Z	-14.609	3.75
12	MP1A	Mx	.014	3.75
13	MP1B	X	-62.301	1.75
14	MP1B	Z	-35.97	1.75
15	MP1B	Mx	-.009	1.75
16	MP1B	X	-62.301	3.75
17	MP1B	Z	-35.97	3.75
18	MP1B	Mx	-.009	3.75
19	MP1C	X	-43.802	1.75
20	MP1C	Z	-25.289	1.75
21	MP1C	Mx	-.018	1.75
22	MP1C	X	-43.802	3.75
23	MP1C	Z	-25.289	3.75
24	MP1C	Mx	-.018	3.75
25	MP4A	X	-77.15	.25
26	MP4A	Z	-44.542	.25
27	MP4A	Mx	.043	.25
28	MP4A	X	-77.15	5.25
29	MP4A	Z	-44.542	5.25
30	MP4A	Mx	.043	5.25
31	MP4B	X	-94.414	.25
32	MP4B	Z	-54.51	.25
33	MP4B	Mx	-.014	.25
34	MP4B	X	-94.414	5.25
35	MP4B	Z	-54.51	5.25
36	MP4B	Mx	-.014	5.25
37	MP4C	X	-85.782	.25
38	MP4C	Z	-49.526	.25
39	MP4C	Mx	-.035	.25
40	MP4C	X	-85.782	5.25
41	MP4C	Z	-49.526	5.25
42	MP4C	Mx	-.035	5.25
43	MP2A	X	-114.519	.25
44	MP2A	Z	-66.117	.25
45	MP2A	Mx	.084	.25
46	MP2A	X	-114.519	5.25
47	MP2A	Z	-66.117	5.25
48	MP2A	Mx	.084	5.25
49	MP2B	X	-133.665	.25
50	MP2B	Z	-77.172	.25
51	MP2B	Mx	-.107	.25
52	MP2B	X	-133.665	5.25
53	MP2B	Z	-77.172	5.25
54	MP2B	Mx	-.107	5.25
55	MP2C	X	-124.092	.25
56	MP2C	Z	-71.645	.25
57	MP2C	Mx	.008	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.009	1.75
16	MP1B	X	-35.97	3.75
17	MP1B	Z	-62.301	3.75
18	MP1B	Mx	.009	3.75
19	MP1C	X	-14.609	1.75
20	MP1C	Z	-25.303	1.75
21	MP1C	Mx	-.014	1.75
22	MP1C	X	-14.609	3.75
23	MP1C	Z	-25.303	3.75
24	MP1C	Mx	-.014	3.75
25	MP4A	X	-49.526	.25
26	MP4A	Z	-85.782	.25
27	MP4A	Mx	.035	.25
28	MP4A	X	-49.526	5.25
29	MP4A	Z	-85.782	5.25
30	MP4A	Mx	.035	5.25
31	MP4B	X	-54.51	.25
32	MP4B	Z	-94.414	.25
33	MP4B	Mx	.014	.25
34	MP4B	X	-54.51	5.25
35	MP4B	Z	-94.414	5.25
36	MP4B	Mx	.014	5.25
37	MP4C	X	-44.542	.25
38	MP4C	Z	-77.15	.25
39	MP4C	Mx	-.043	.25
40	MP4C	X	-44.542	5.25
41	MP4C	Z	-77.15	5.25
42	MP4C	Mx	-.043	5.25
43	MP2A	X	-71.645	.25
44	MP2A	Z	-124.092	.25
45	MP2A	Mx	.11	.25
46	MP2A	X	-71.645	5.25
47	MP2A	Z	-124.092	5.25
48	MP2A	Mx	.11	5.25
49	MP2B	X	-77.172	.25
50	MP2B	Z	-133.665	.25
51	MP2B	Mx	-.067	.25
52	MP2B	X	-77.172	5.25
53	MP2B	Z	-133.665	5.25
54	MP2B	Mx	-.067	5.25
55	MP2C	X	-66.117	.25
56	MP2C	Z	-114.519	.25
57	MP2C	Mx	-.044	.25
58	MP2C	X	-66.117	5.25
59	MP2C	Z	-114.519	5.25
60	MP2C	Mx	-.044	5.25
61	MP2A	X	-71.645	.25
62	MP2A	Z	-124.092	.25
63	MP2A	Mx	-.008	.25
64	MP2A	X	-71.645	5.25
65	MP2A	Z	-124.092	5.25
66	MP2A	Mx	-.008	5.25
67	MP2B	X	-77.172	.25
68	MP2B	Z	-133.665	.25
69	MP2B	Mx	.107	.25
70	MP2B	X	-77.172	5.25
71	MP2B	Z	-133.665	5.25

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
72	MP2B	Mx	.107	5.25
73	MP2C	X	-66.117	.25
74	MP2C	Z	-114.519	.25
75	MP2C	Mx	-.084	.25
76	MP2C	X	-66.117	5.25
77	MP2C	Z	-114.519	5.25
78	MP2C	Mx	-.084	5.25
79	RADIOA	X	-29.096	.5
80	RADIOA	Z	-50.396	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-23.034	.5
83	MP1A	Z	-39.896	.5
84	MP1A	Mx	.016	.5
85	MP1B	X	-28.852	.5
86	MP1B	Z	-49.973	.5
87	MP1B	Mx	-.028	.5
88	MP1C	X	-17.216	.5
89	MP1C	Z	-29.818	.5
90	MP1C	Mx	.004	.5
91	RADIOB	X	-29.096	.5
92	RADIOB	Z	-50.396	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-29.096	.5
95	RADIOC	Z	-50.396	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	0	5.5
2	MP2A	Z	-3.499	5.5
3	MP2A	Mx	.000221	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	-3.499	5.5
6	MP2A	Mx	-.002	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	-17.523	1.75
9	MP1A	Mx	.002	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	-17.523	3.75
12	MP1A	Mx	.002	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	-12.983	1.75
15	MP1B	Mx	.005	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	-12.983	3.75
18	MP1B	Mx	.005	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	-8.443	1.75
21	MP1C	Mx	-.004	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	-8.443	3.75
24	MP1C	Mx	-.004	3.75
25	MP4A	X	0	.25
26	MP4A	Z	-22.298	.25
27	MP4A	Mx	.003	.25
28	MP4A	X	0	5.25

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP4A	Z	-22.298	5.25
30	MP4A	Mx	.003	5.25
31	MP4B	X	0	.25
32	MP4B	Z	-20.43	.25
33	MP4B	Mx	.007	.25
34	MP4B	X	0	5.25
35	MP4B	Z	-20.43	5.25
36	MP4B	Mx	.007	5.25
37	MP4C	X	0	.25
38	MP4C	Z	-18.562	.25
39	MP4C	Mx	-.009	.25
40	MP4C	X	0	5.25
41	MP4C	Z	-18.562	5.25
42	MP4C	Mx	-.009	5.25
43	MP2A	X	0	.25
44	MP2A	Z	-30.496	.25
45	MP2A	Mx	.021	.25
46	MP2A	X	0	5.25
47	MP2A	Z	-30.496	5.25
48	MP2A	Mx	.021	5.25
49	MP2B	X	0	.25
50	MP2B	Z	-28.471	.25
51	MP2B	Mx	-.002	.25
52	MP2B	X	0	5.25
53	MP2B	Z	-28.471	5.25
54	MP2B	Mx	-.002	5.25
55	MP2C	X	0	.25
56	MP2C	Z	-26.447	.25
57	MP2C	Mx	-.017	.25
58	MP2C	X	0	5.25
59	MP2C	Z	-26.447	5.25
60	MP2C	Mx	-.017	5.25
61	MP2A	X	0	.25
62	MP2A	Z	-30.496	.25
63	MP2A	Mx	-.013	.25
64	MP2A	X	0	5.25
65	MP2A	Z	-30.496	5.25
66	MP2A	Mx	-.013	5.25
67	MP2B	X	0	.25
68	MP2B	Z	-28.471	.25
69	MP2B	Mx	.022	.25
70	MP2B	X	0	5.25
71	MP2B	Z	-28.471	5.25
72	MP2B	Mx	.022	5.25
73	MP2C	X	0	.25
74	MP2C	Z	-26.447	.25
75	MP2C	Mx	-.009	.25
76	MP2C	X	0	5.25
77	MP2C	Z	-26.447	5.25
78	MP2C	Mx	-.009	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	-15.018	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	-14.899	.5
84	MP1A	Mx	.007	.5
85	MP1B	X	0	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	-12.102	.5
87	MP1B	Mx	-.004	.5
88	MP1C	X	0	.5
89	MP1C	Z	-9.304	.5
90	MP1C	Mx	-.001	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	-15.018	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	-15.018	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	1.749	5.5
2	MP2A	Z	-3.03	5.5
3	MP2A	Mx	.002	5.5
4	MP2A	X	1.749	5.5
5	MP2A	Z	-3.03	5.5
6	MP2A	Mx	-.000221	5.5
7	MP1A	X	8.762	1.75
8	MP1A	Z	-15.176	1.75
9	MP1A	Mx	-.002	1.75
10	MP1A	X	8.762	3.75
11	MP1A	Z	-15.176	3.75
12	MP1A	Mx	-.002	3.75
13	MP1B	X	4.222	1.75
14	MP1B	Z	-7.312	1.75
15	MP1B	Mx	.004	1.75
16	MP1B	X	4.222	3.75
17	MP1B	Z	-7.312	3.75
18	MP1B	Mx	.004	3.75
19	MP1C	X	6.492	1.75
20	MP1C	Z	-11.244	1.75
21	MP1C	Mx	-.005	1.75
22	MP1C	X	6.492	3.75
23	MP1C	Z	-11.244	3.75
24	MP1C	Mx	-.005	3.75
25	MP4A	X	11.149	.25
26	MP4A	Z	-19.31	.25
27	MP4A	Mx	-.003	.25
28	MP4A	X	11.149	5.25
29	MP4A	Z	-19.31	5.25
30	MP4A	Mx	-.003	5.25
31	MP4B	X	9.281	.25
32	MP4B	Z	-16.076	.25
33	MP4B	Mx	.009	.25
34	MP4B	X	9.281	5.25
35	MP4B	Z	-16.076	5.25
36	MP4B	Mx	.009	5.25
37	MP4C	X	10.215	.25
38	MP4C	Z	-17.693	.25
39	MP4C	Mx	-.007	.25
40	MP4C	X	10.215	5.25
41	MP4C	Z	-17.693	5.25
42	MP4C	Mx	-.007	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2A	X	15.248	.25
44	MP2A	Z	-26.411	.25
45	MP2A	Mx	.013	.25
46	MP2A	X	15.248	5.25
47	MP2A	Z	-26.411	5.25
48	MP2A	Mx	.013	5.25
49	MP2B	X	13.223	.25
50	MP2B	Z	-22.903	.25
51	MP2B	Mx	.009	.25
52	MP2B	X	13.223	5.25
53	MP2B	Z	-22.903	5.25
54	MP2B	Mx	.009	5.25
55	MP2C	X	14.236	.25
56	MP2C	Z	-24.657	.25
57	MP2C	Mx	-.022	.25
58	MP2C	X	14.236	5.25
59	MP2C	Z	-24.657	5.25
60	MP2C	Mx	-.022	5.25
61	MP2A	X	15.248	.25
62	MP2A	Z	-26.411	.25
63	MP2A	Mx	-.021	.25
64	MP2A	X	15.248	5.25
65	MP2A	Z	-26.411	5.25
66	MP2A	Mx	-.021	5.25
67	MP2B	X	13.223	.25
68	MP2B	Z	-22.903	.25
69	MP2B	Mx	.017	.25
70	MP2B	X	13.223	5.25
71	MP2B	Z	-22.903	5.25
72	MP2B	Mx	.017	5.25
73	MP2C	X	14.236	.25
74	MP2C	Z	-24.657	.25
75	MP2C	Mx	.002	.25
76	MP2C	X	14.236	5.25
77	MP2C	Z	-24.657	5.25
78	MP2C	Mx	.002	5.25
79	RADIOA	X	6.496	.5
80	RADIOA	Z	-11.251	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	7.45	.5
83	MP1A	Z	-12.903	.5
84	MP1A	Mx	.007	.5
85	MP1B	X	4.652	.5
86	MP1B	Z	-8.058	.5
87	MP1B	Mx	-.001	.5
88	MP1C	X	6.051	.5
89	MP1C	Z	-10.48	.5
90	MP1C	Mx	-.004	.5
91	RADIOB	X	6.496	.5
92	RADIOB	Z	-11.251	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	6.496	.5
95	RADIOC	Z	-11.251	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	5.004	5.5
2	MP2A	Z	-2.889	5.5
3	MP2A	Mx	.005	5.5
4	MP2A	X	5.004	5.5
5	MP2A	Z	-2.889	5.5
6	MP2A	Mx	.003	5.5
7	MP1A	X	11.244	1.75
8	MP1A	Z	-6.492	1.75
9	MP1A	Mx	-.005	1.75
10	MP1A	X	11.244	3.75
11	MP1A	Z	-6.492	3.75
12	MP1A	Mx	-.005	3.75
13	MP1B	X	7.312	1.75
14	MP1B	Z	-4.222	1.75
15	MP1B	Mx	.004	1.75
16	MP1B	X	7.312	3.75
17	MP1B	Z	-4.222	3.75
18	MP1B	Mx	.004	3.75
19	MP1C	X	15.176	1.75
20	MP1C	Z	-8.762	1.75
21	MP1C	Mx	-.002	1.75
22	MP1C	X	15.176	3.75
23	MP1C	Z	-8.762	3.75
24	MP1C	Mx	-.002	3.75
25	MP4A	X	17.693	.25
26	MP4A	Z	-10.215	.25
27	MP4A	Mx	-.007	.25
28	MP4A	X	17.693	5.25
29	MP4A	Z	-10.215	5.25
30	MP4A	Mx	-.007	5.25
31	MP4B	X	16.076	.25
32	MP4B	Z	-9.281	.25
33	MP4B	Mx	.009	.25
34	MP4B	X	16.076	5.25
35	MP4B	Z	-9.281	5.25
36	MP4B	Mx	.009	5.25
37	MP4C	X	19.31	.25
38	MP4C	Z	-11.149	.25
39	MP4C	Mx	-.003	.25
40	MP4C	X	19.31	5.25
41	MP4C	Z	-11.149	5.25
42	MP4C	Mx	-.003	5.25
43	MP2A	X	24.657	.25
44	MP2A	Z	-14.236	.25
45	MP2A	Mx	.002	.25
46	MP2A	X	24.657	5.25
47	MP2A	Z	-14.236	5.25
48	MP2A	Mx	.002	5.25
49	MP2B	X	22.903	.25
50	MP2B	Z	-13.223	.25
51	MP2B	Mx	.017	.25
52	MP2B	X	22.903	5.25
53	MP2B	Z	-13.223	5.25
54	MP2B	Mx	.017	5.25
55	MP2C	X	26.411	.25
56	MP2C	Z	-15.248	.25
57	MP2C	Mx	-.021	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	26.411	5.25
59	MP2C	Z	-15.248	5.25
60	MP2C	Mx	-.021	5.25
61	MP2A	X	24.657	.25
62	MP2A	Z	-14.236	.25
63	MP2A	Mx	-.022	.25
64	MP2A	X	24.657	5.25
65	MP2A	Z	-14.236	5.25
66	MP2A	Mx	-.022	5.25
67	MP2B	X	22.903	.25
68	MP2B	Z	-13.223	.25
69	MP2B	Mx	.009	.25
70	MP2B	X	22.903	5.25
71	MP2B	Z	-13.223	5.25
72	MP2B	Mx	.009	5.25
73	MP2C	X	26.411	.25
74	MP2C	Z	-15.248	.25
75	MP2C	Mx	.013	.25
76	MP2C	X	26.411	5.25
77	MP2C	Z	-15.248	5.25
78	MP2C	Mx	.013	5.25
79	RADIOA	X	9.495	.5
80	RADIOA	Z	-5.482	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	10.48	.5
83	MP1A	Z	-6.051	.5
84	MP1A	Mx	.004	.5
85	MP1B	X	8.058	.5
86	MP1B	Z	-4.652	.5
87	MP1B	Mx	.001	.5
88	MP1C	X	12.903	.5
89	MP1C	Z	-7.45	.5
90	MP1C	Mx	-.007	.5
91	RADIOB	X	9.495	.5
92	RADIOB	Z	-5.482	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	9.495	.5
95	RADIOC	Z	-5.482	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	8.057	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	.008	5.5
4	MP2A	X	8.057	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.007	5.5
7	MP1A	X	8.443	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	-.004	1.75
10	MP1A	X	8.443	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	-.004	3.75
13	MP1B	X	12.983	1.75
14	MP1B	Z	0	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.005	1.75
16	MP1B	X	12.983	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	.005	3.75
19	MP1C	X	17.523	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	.002	1.75
22	MP1C	X	17.523	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	.002	3.75
25	MP4A	X	18.562	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	-.009	.25
28	MP4A	X	18.562	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	-.009	5.25
31	MP4B	X	20.43	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	.007	.25
34	MP4B	X	20.43	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	.007	5.25
37	MP4C	X	22.298	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	.003	.25
40	MP4C	X	22.298	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	.003	5.25
43	MP2A	X	26.447	.25
44	MP2A	Z	0	.25
45	MP2A	Mx	-.009	.25
46	MP2A	X	26.447	5.25
47	MP2A	Z	0	5.25
48	MP2A	Mx	-.009	5.25
49	MP2B	X	28.471	.25
50	MP2B	Z	0	.25
51	MP2B	Mx	.022	.25
52	MP2B	X	28.471	5.25
53	MP2B	Z	0	5.25
54	MP2B	Mx	.022	5.25
55	MP2C	X	30.496	.25
56	MP2C	Z	0	.25
57	MP2C	Mx	-.013	.25
58	MP2C	X	30.496	5.25
59	MP2C	Z	0	5.25
60	MP2C	Mx	-.013	5.25
61	MP2A	X	26.447	.25
62	MP2A	Z	0	.25
63	MP2A	Mx	-.017	.25
64	MP2A	X	26.447	5.25
65	MP2A	Z	0	5.25
66	MP2A	Mx	-.017	5.25
67	MP2B	X	28.471	.25
68	MP2B	Z	0	.25
69	MP2B	Mx	-.002	.25
70	MP2B	X	28.471	5.25
71	MP2B	Z	0	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	9.281	5.25
30	MP4A	Mx	-.009	5.25
31	MP4B	X	19.31	.25
32	MP4B	Z	11.149	.25
33	MP4B	Mx	.003	.25
34	MP4B	X	19.31	5.25
35	MP4B	Z	11.149	5.25
36	MP4B	Mx	.003	5.25
37	MP4C	X	17.693	.25
38	MP4C	Z	10.215	.25
39	MP4C	Mx	.007	.25
40	MP4C	X	17.693	5.25
41	MP4C	Z	10.215	5.25
42	MP4C	Mx	.007	5.25
43	MP2A	X	22.903	.25
44	MP2A	Z	13.223	.25
45	MP2A	Mx	-.017	.25
46	MP2A	X	22.903	5.25
47	MP2A	Z	13.223	5.25
48	MP2A	Mx	-.017	5.25
49	MP2B	X	26.411	.25
50	MP2B	Z	15.248	.25
51	MP2B	Mx	.021	.25
52	MP2B	X	26.411	5.25
53	MP2B	Z	15.248	5.25
54	MP2B	Mx	.021	5.25
55	MP2C	X	24.657	.25
56	MP2C	Z	14.236	.25
57	MP2C	Mx	-.002	.25
58	MP2C	X	24.657	5.25
59	MP2C	Z	14.236	5.25
60	MP2C	Mx	-.002	5.25
61	MP2A	X	22.903	.25
62	MP2A	Z	13.223	.25
63	MP2A	Mx	-.009	.25
64	MP2A	X	22.903	5.25
65	MP2A	Z	13.223	5.25
66	MP2A	Mx	-.009	5.25
67	MP2B	X	26.411	.25
68	MP2B	Z	15.248	.25
69	MP2B	Mx	-.013	.25
70	MP2B	X	26.411	5.25
71	MP2B	Z	15.248	5.25
72	MP2B	Mx	-.013	5.25
73	MP2C	X	24.657	.25
74	MP2C	Z	14.236	.25
75	MP2C	Mx	.022	.25
76	MP2C	X	24.657	5.25
77	MP2C	Z	14.236	5.25
78	MP2C	Mx	.022	5.25
79	RADIOA	X	11.251	.5
80	RADIOA	Z	6.496	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	8.058	.5
83	MP1A	Z	4.652	.5
84	MP1A	Mx	-.001	.5
85	MP1B	X	12.903	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2A	X	14.236	.25
44	MP2A	Z	24.657	.25
45	MP2A	Mx	-.022	.25
46	MP2A	X	14.236	5.25
47	MP2A	Z	24.657	5.25
48	MP2A	Mx	-.022	5.25
49	MP2B	X	15.248	.25
50	MP2B	Z	26.411	.25
51	MP2B	Mx	.013	.25
52	MP2B	X	15.248	5.25
53	MP2B	Z	26.411	5.25
54	MP2B	Mx	.013	5.25
55	MP2C	X	13.223	.25
56	MP2C	Z	22.903	.25
57	MP2C	Mx	.009	.25
58	MP2C	X	13.223	5.25
59	MP2C	Z	22.903	5.25
60	MP2C	Mx	.009	5.25
61	MP2A	X	14.236	.25
62	MP2A	Z	24.657	.25
63	MP2A	Mx	.002	.25
64	MP2A	X	14.236	5.25
65	MP2A	Z	24.657	5.25
66	MP2A	Mx	.002	5.25
67	MP2B	X	15.248	.25
68	MP2B	Z	26.411	.25
69	MP2B	Mx	-.021	.25
70	MP2B	X	15.248	5.25
71	MP2B	Z	26.411	5.25
72	MP2B	Mx	-.021	5.25
73	MP2C	X	13.223	.25
74	MP2C	Z	22.903	.25
75	MP2C	Mx	.017	.25
76	MP2C	X	13.223	5.25
77	MP2C	Z	22.903	5.25
78	MP2C	Mx	.017	5.25
79	RADIOA	X	7.509	.5
80	RADIOA	Z	13.006	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	6.051	.5
83	MP1A	Z	10.48	.5
84	MP1A	Mx	-.004	.5
85	MP1B	X	7.45	.5
86	MP1B	Z	12.903	.5
87	MP1B	Mx	.007	.5
88	MP1C	X	4.652	.5
89	MP1C	Z	8.058	.5
90	MP1C	Mx	-.001	.5
91	RADIOB	X	7.509	.5
92	RADIOB	Z	13.006	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	7.509	.5
95	RADIOC	Z	13.006	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	5.5
2	MP2A	Z	3.499	5.5
3	MP2A	Mx	-.000221	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	3.499	5.5
6	MP2A	Mx	.002	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	17.523	1.75
9	MP1A	Mx	-.002	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	17.523	3.75
12	MP1A	Mx	-.002	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	12.983	1.75
15	MP1B	Mx	-.005	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	12.983	3.75
18	MP1B	Mx	-.005	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	8.443	1.75
21	MP1C	Mx	.004	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	8.443	3.75
24	MP1C	Mx	.004	3.75
25	MP4A	X	0	.25
26	MP4A	Z	22.298	.25
27	MP4A	Mx	-.003	.25
28	MP4A	X	0	5.25
29	MP4A	Z	22.298	5.25
30	MP4A	Mx	-.003	5.25
31	MP4B	X	0	.25
32	MP4B	Z	20.43	.25
33	MP4B	Mx	-.007	.25
34	MP4B	X	0	5.25
35	MP4B	Z	20.43	5.25
36	MP4B	Mx	-.007	5.25
37	MP4C	X	0	.25
38	MP4C	Z	18.562	.25
39	MP4C	Mx	.009	.25
40	MP4C	X	0	5.25
41	MP4C	Z	18.562	5.25
42	MP4C	Mx	.009	5.25
43	MP2A	X	0	.25
44	MP2A	Z	30.496	.25
45	MP2A	Mx	-.021	.25
46	MP2A	X	0	5.25
47	MP2A	Z	30.496	5.25
48	MP2A	Mx	-.021	5.25
49	MP2B	X	0	.25
50	MP2B	Z	28.471	.25
51	MP2B	Mx	.002	.25
52	MP2B	X	0	5.25
53	MP2B	Z	28.471	5.25
54	MP2B	Mx	.002	5.25
55	MP2C	X	0	.25
56	MP2C	Z	26.447	.25
57	MP2C	Mx	.017	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	0	5.25
59	MP2C	Z	26.447	5.25
60	MP2C	Mx	.017	5.25
61	MP2A	X	0	.25
62	MP2A	Z	30.496	.25
63	MP2A	Mx	.013	.25
64	MP2A	X	0	5.25
65	MP2A	Z	30.496	5.25
66	MP2A	Mx	.013	5.25
67	MP2B	X	0	.25
68	MP2B	Z	28.471	.25
69	MP2B	Mx	-.022	.25
70	MP2B	X	0	5.25
71	MP2B	Z	28.471	5.25
72	MP2B	Mx	-.022	5.25
73	MP2C	X	0	.25
74	MP2C	Z	26.447	.25
75	MP2C	Mx	.009	.25
76	MP2C	X	0	5.25
77	MP2C	Z	26.447	5.25
78	MP2C	Mx	.009	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	15.018	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	14.899	.5
84	MP1A	Mx	-.007	.5
85	MP1B	X	0	.5
86	MP1B	Z	12.102	.5
87	MP1B	Mx	.004	.5
88	MP1C	X	0	.5
89	MP1C	Z	9.304	.5
90	MP1C	Mx	.001	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	15.018	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	15.018	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-1.749	5.5
2	MP2A	Z	3.03	5.5
3	MP2A	Mx	-.002	5.5
4	MP2A	X	-1.749	5.5
5	MP2A	Z	3.03	5.5
6	MP2A	Mx	.000221	5.5
7	MP1A	X	-8.762	1.75
8	MP1A	Z	15.176	1.75
9	MP1A	Mx	.002	1.75
10	MP1A	X	-8.762	3.75
11	MP1A	Z	15.176	3.75
12	MP1A	Mx	.002	3.75
13	MP1B	X	-4.222	1.75
14	MP1B	Z	7.312	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	-.004	1.75
16	MP1B	X	-4.222	3.75
17	MP1B	Z	7.312	3.75
18	MP1B	Mx	-.004	3.75
19	MP1C	X	-6.492	1.75
20	MP1C	Z	11.244	1.75
21	MP1C	Mx	.005	1.75
22	MP1C	X	-6.492	3.75
23	MP1C	Z	11.244	3.75
24	MP1C	Mx	.005	3.75
25	MP4A	X	-11.149	.25
26	MP4A	Z	19.31	.25
27	MP4A	Mx	.003	.25
28	MP4A	X	-11.149	5.25
29	MP4A	Z	19.31	5.25
30	MP4A	Mx	.003	5.25
31	MP4B	X	-9.281	.25
32	MP4B	Z	16.076	.25
33	MP4B	Mx	-.009	.25
34	MP4B	X	-9.281	5.25
35	MP4B	Z	16.076	5.25
36	MP4B	Mx	-.009	5.25
37	MP4C	X	-10.215	.25
38	MP4C	Z	17.693	.25
39	MP4C	Mx	.007	.25
40	MP4C	X	-10.215	5.25
41	MP4C	Z	17.693	5.25
42	MP4C	Mx	.007	5.25
43	MP2A	X	-15.248	.25
44	MP2A	Z	26.411	.25
45	MP2A	Mx	-.013	.25
46	MP2A	X	-15.248	5.25
47	MP2A	Z	26.411	5.25
48	MP2A	Mx	-.013	5.25
49	MP2B	X	-13.223	.25
50	MP2B	Z	22.903	.25
51	MP2B	Mx	-.009	.25
52	MP2B	X	-13.223	5.25
53	MP2B	Z	22.903	5.25
54	MP2B	Mx	-.009	5.25
55	MP2C	X	-14.236	.25
56	MP2C	Z	24.657	.25
57	MP2C	Mx	.022	.25
58	MP2C	X	-14.236	5.25
59	MP2C	Z	24.657	5.25
60	MP2C	Mx	.022	5.25
61	MP2A	X	-15.248	.25
62	MP2A	Z	26.411	.25
63	MP2A	Mx	.021	.25
64	MP2A	X	-15.248	5.25
65	MP2A	Z	26.411	5.25
66	MP2A	Mx	.021	5.25
67	MP2B	X	-13.223	.25
68	MP2B	Z	22.903	.25
69	MP2B	Mx	-.017	.25
70	MP2B	X	-13.223	5.25
71	MP2B	Z	22.903	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
72	MP2B	Mx	-.017	5.25
73	MP2C	X	-14.236	.25
74	MP2C	Z	24.657	.25
75	MP2C	Mx	-.002	.25
76	MP2C	X	-14.236	5.25
77	MP2C	Z	24.657	5.25
78	MP2C	Mx	-.002	5.25
79	RADIOA	X	-6.496	.5
80	RADIOA	Z	11.251	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-7.45	.5
83	MP1A	Z	12.903	.5
84	MP1A	Mx	-.007	.5
85	MP1B	X	-4.652	.5
86	MP1B	Z	8.058	.5
87	MP1B	Mx	.001	.5
88	MP1C	X	-6.051	.5
89	MP1C	Z	10.48	.5
90	MP1C	Mx	.004	.5
91	RADIOB	X	-6.496	.5
92	RADIOB	Z	11.251	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-6.496	.5
95	RADIOC	Z	11.251	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.004	5.5
2	MP2A	Z	2.889	5.5
3	MP2A	Mx	-.005	5.5
4	MP2A	X	-5.004	5.5
5	MP2A	Z	2.889	5.5
6	MP2A	Mx	-.003	5.5
7	MP1A	X	-11.244	1.75
8	MP1A	Z	6.492	1.75
9	MP1A	Mx	.005	1.75
10	MP1A	X	-11.244	3.75
11	MP1A	Z	6.492	3.75
12	MP1A	Mx	.005	3.75
13	MP1B	X	-7.312	1.75
14	MP1B	Z	4.222	1.75
15	MP1B	Mx	-.004	1.75
16	MP1B	X	-7.312	3.75
17	MP1B	Z	4.222	3.75
18	MP1B	Mx	-.004	3.75
19	MP1C	X	-15.176	1.75
20	MP1C	Z	8.762	1.75
21	MP1C	Mx	.002	1.75
22	MP1C	X	-15.176	3.75
23	MP1C	Z	8.762	3.75
24	MP1C	Mx	.002	3.75
25	MP4A	X	-17.693	.25
26	MP4A	Z	10.215	.25
27	MP4A	Mx	.007	.25
28	MP4A	X	-17.693	5.25

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	4.652	.5
87	MP1B	Mx	-.001	.5
88	MP1C	X	-12.903	.5
89	MP1C	Z	7.45	.5
90	MP1C	Mx	.007	.5
91	RADIOB	X	-9.495	.5
92	RADIOB	Z	5.482	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-9.495	.5
95	RADIOC	Z	5.482	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	-8.057	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	-.008	5.5
4	MP2A	X	-8.057	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.007	5.5
7	MP1A	X	-8.443	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	.004	1.75
10	MP1A	X	-8.443	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	.004	3.75
13	MP1B	X	-12.983	1.75
14	MP1B	Z	0	1.75
15	MP1B	Mx	-.005	1.75
16	MP1B	X	-12.983	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	-.005	3.75
19	MP1C	X	-17.523	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	-.002	1.75
22	MP1C	X	-17.523	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	-.002	3.75
25	MP4A	X	-18.562	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	.009	.25
28	MP4A	X	-18.562	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	.009	5.25
31	MP4B	X	-20.43	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	-.007	.25
34	MP4B	X	-20.43	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	-.007	5.25
37	MP4C	X	-22.298	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	-.003	.25
40	MP4C	X	-22.298	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	-.003	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2A	X	-26.447	.25
44	MP2A	Z	0	.25
45	MP2A	Mx	.009	.25
46	MP2A	X	-26.447	5.25
47	MP2A	Z	0	5.25
48	MP2A	Mx	.009	5.25
49	MP2B	X	-28.471	.25
50	MP2B	Z	0	.25
51	MP2B	Mx	-.022	.25
52	MP2B	X	-28.471	5.25
53	MP2B	Z	0	5.25
54	MP2B	Mx	-.022	5.25
55	MP2C	X	-30.496	.25
56	MP2C	Z	0	.25
57	MP2C	Mx	.013	.25
58	MP2C	X	-30.496	5.25
59	MP2C	Z	0	5.25
60	MP2C	Mx	.013	5.25
61	MP2A	X	-26.447	.25
62	MP2A	Z	0	.25
63	MP2A	Mx	.017	.25
64	MP2A	X	-26.447	5.25
65	MP2A	Z	0	5.25
66	MP2A	Mx	.017	5.25
67	MP2B	X	-28.471	.25
68	MP2B	Z	0	.25
69	MP2B	Mx	.002	.25
70	MP2B	X	-28.471	5.25
71	MP2B	Z	0	5.25
72	MP2B	Mx	.002	5.25
73	MP2C	X	-30.496	.25
74	MP2C	Z	0	.25
75	MP2C	Mx	-.021	.25
76	MP2C	X	-30.496	5.25
77	MP2C	Z	0	5.25
78	MP2C	Mx	-.021	5.25
79	RADIOA	X	-10.964	.5
80	RADIOA	Z	0	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-9.304	.5
83	MP1A	Z	0	.5
84	MP1A	Mx	-.001	.5
85	MP1B	X	-12.102	.5
86	MP1B	Z	0	.5
87	MP1B	Mx	-.004	.5
88	MP1C	X	-14.899	.5
89	MP1C	Z	0	.5
90	MP1C	Mx	.007	.5
91	RADIOB	X	-10.964	.5
92	RADIOB	Z	0	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-10.964	.5
95	RADIOC	Z	0	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-6.978	5.5
2	MP2A	Z	-4.028	5.5
3	MP2A	Mx	-.007	5.5
4	MP2A	X	-6.978	5.5
5	MP2A	Z	-4.028	5.5
6	MP2A	Mx	-.008	5.5
7	MP1A	X	-7.312	1.75
8	MP1A	Z	-4.222	1.75
9	MP1A	Mx	.004	1.75
10	MP1A	X	-7.312	3.75
11	MP1A	Z	-4.222	3.75
12	MP1A	Mx	.004	3.75
13	MP1B	X	-15.176	1.75
14	MP1B	Z	-8.762	1.75
15	MP1B	Mx	-.002	1.75
16	MP1B	X	-15.176	3.75
17	MP1B	Z	-8.762	3.75
18	MP1B	Mx	-.002	3.75
19	MP1C	X	-11.244	1.75
20	MP1C	Z	-6.492	1.75
21	MP1C	Mx	-.005	1.75
22	MP1C	X	-11.244	3.75
23	MP1C	Z	-6.492	3.75
24	MP1C	Mx	-.005	3.75
25	MP4A	X	-16.076	.25
26	MP4A	Z	-9.281	.25
27	MP4A	Mx	.009	.25
28	MP4A	X	-16.076	5.25
29	MP4A	Z	-9.281	5.25
30	MP4A	Mx	.009	5.25
31	MP4B	X	-19.31	.25
32	MP4B	Z	-11.149	.25
33	MP4B	Mx	-.003	.25
34	MP4B	X	-19.31	5.25
35	MP4B	Z	-11.149	5.25
36	MP4B	Mx	-.003	5.25
37	MP4C	X	-17.693	.25
38	MP4C	Z	-10.215	.25
39	MP4C	Mx	-.007	.25
40	MP4C	X	-17.693	5.25
41	MP4C	Z	-10.215	5.25
42	MP4C	Mx	-.007	5.25
43	MP2A	X	-22.903	.25
44	MP2A	Z	-13.223	.25
45	MP2A	Mx	.017	.25
46	MP2A	X	-22.903	5.25
47	MP2A	Z	-13.223	5.25
48	MP2A	Mx	.017	5.25
49	MP2B	X	-26.411	.25
50	MP2B	Z	-15.248	.25
51	MP2B	Mx	-.021	.25
52	MP2B	X	-26.411	5.25
53	MP2B	Z	-15.248	5.25
54	MP2B	Mx	-.021	5.25
55	MP2C	X	-24.657	.25
56	MP2C	Z	-14.236	.25
57	MP2C	Mx	.002	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	-24.657	5.25
59	MP2C	Z	-14.236	5.25
60	MP2C	Mx	.002	5.25
61	MP2A	X	-22.903	.25
62	MP2A	Z	-13.223	.25
63	MP2A	Mx	.009	.25
64	MP2A	X	-22.903	5.25
65	MP2A	Z	-13.223	5.25
66	MP2A	Mx	.009	5.25
67	MP2B	X	-26.411	.25
68	MP2B	Z	-15.248	.25
69	MP2B	Mx	.013	.25
70	MP2B	X	-26.411	5.25
71	MP2B	Z	-15.248	5.25
72	MP2B	Mx	.013	5.25
73	MP2C	X	-24.657	.25
74	MP2C	Z	-14.236	.25
75	MP2C	Mx	-.022	.25
76	MP2C	X	-24.657	5.25
77	MP2C	Z	-14.236	5.25
78	MP2C	Mx	-.022	5.25
79	RADIOA	X	-11.251	.5
80	RADIOA	Z	-6.496	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-8.058	.5
83	MP1A	Z	-4.652	.5
84	MP1A	Mx	.001	.5
85	MP1B	X	-12.903	.5
86	MP1B	Z	-7.45	.5
87	MP1B	Mx	-.007	.5
88	MP1C	X	-10.48	.5
89	MP1C	Z	-6.051	.5
90	MP1C	Mx	.004	.5
91	RADIOB	X	-11.251	.5
92	RADIOB	Z	-6.496	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-11.251	.5
95	RADIOC	Z	-6.496	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.889	5.5
2	MP2A	Z	-5.004	5.5
3	MP2A	Mx	-.003	5.5
4	MP2A	X	-2.889	5.5
5	MP2A	Z	-5.004	5.5
6	MP2A	Mx	-.005	5.5
7	MP1A	X	-6.492	1.75
8	MP1A	Z	-11.244	1.75
9	MP1A	Mx	.005	1.75
10	MP1A	X	-6.492	3.75
11	MP1A	Z	-11.244	3.75
12	MP1A	Mx	.005	3.75
13	MP1B	X	-8.762	1.75
14	MP1B	Z	-15.176	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.002	1.75
16	MP1B	X	-8.762	3.75
17	MP1B	Z	-15.176	3.75
18	MP1B	Mx	.002	3.75
19	MP1C	X	-4.222	1.75
20	MP1C	Z	-7.312	1.75
21	MP1C	Mx	-.004	1.75
22	MP1C	X	-4.222	3.75
23	MP1C	Z	-7.312	3.75
24	MP1C	Mx	-.004	3.75
25	MP4A	X	-10.215	.25
26	MP4A	Z	-17.693	.25
27	MP4A	Mx	.007	.25
28	MP4A	X	-10.215	5.25
29	MP4A	Z	-17.693	5.25
30	MP4A	Mx	.007	5.25
31	MP4B	X	-11.149	.25
32	MP4B	Z	-19.31	.25
33	MP4B	Mx	.003	.25
34	MP4B	X	-11.149	5.25
35	MP4B	Z	-19.31	5.25
36	MP4B	Mx	.003	5.25
37	MP4C	X	-9.281	.25
38	MP4C	Z	-16.076	.25
39	MP4C	Mx	-.009	.25
40	MP4C	X	-9.281	5.25
41	MP4C	Z	-16.076	5.25
42	MP4C	Mx	-.009	5.25
43	MP2A	X	-14.236	.25
44	MP2A	Z	-24.657	.25
45	MP2A	Mx	.022	.25
46	MP2A	X	-14.236	5.25
47	MP2A	Z	-24.657	5.25
48	MP2A	Mx	.022	5.25
49	MP2B	X	-15.248	.25
50	MP2B	Z	-26.411	.25
51	MP2B	Mx	-.013	.25
52	MP2B	X	-15.248	5.25
53	MP2B	Z	-26.411	5.25
54	MP2B	Mx	-.013	5.25
55	MP2C	X	-13.223	.25
56	MP2C	Z	-22.903	.25
57	MP2C	Mx	-.009	.25
58	MP2C	X	-13.223	5.25
59	MP2C	Z	-22.903	5.25
60	MP2C	Mx	-.009	5.25
61	MP2A	X	-14.236	.25
62	MP2A	Z	-24.657	.25
63	MP2A	Mx	-.002	.25
64	MP2A	X	-14.236	5.25
65	MP2A	Z	-24.657	5.25
66	MP2A	Mx	-.002	5.25
67	MP2B	X	-15.248	.25
68	MP2B	Z	-26.411	.25
69	MP2B	Mx	.021	.25
70	MP2B	X	-15.248	5.25
71	MP2B	Z	-26.411	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	.021	5.25
73	MP2C	X	-13.223	.25
74	MP2C	Z	-22.903	.25
75	MP2C	Mx	-.017	.25
76	MP2C	X	-13.223	5.25
77	MP2C	Z	-22.903	5.25
78	MP2C	Mx	-.017	5.25
79	RADIOA	X	-7.509	.5
80	RADIOA	Z	-13.006	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-6.051	.5
83	MP1A	Z	-10.48	.5
84	MP1A	Mx	.004	.5
85	MP1B	X	-7.45	.5
86	MP1B	Z	-12.903	.5
87	MP1B	Mx	-.007	.5
88	MP1C	X	-4.652	.5
89	MP1C	Z	-8.058	.5
90	MP1C	Mx	.001	.5
91	RADIOB	X	-7.509	.5
92	RADIOB	Z	-13.006	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-7.509	.5
95	RADIOC	Z	-13.006	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	5.5
2	MP2A	Z	-2.383	5.5
3	MP2A	Mx	.000151	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	-2.383	5.5
6	MP2A	Mx	-.001	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	-4.65	1.75
9	MP1A	Mx	.000602	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	-4.65	3.75
12	MP1A	Mx	.000602	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	-3.269	1.75
15	MP1B	Mx	.001	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	-3.269	3.75
18	MP1B	Mx	.001	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	-1.889	1.75
21	MP1C	Mx	-.000912	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	-1.889	3.75
24	MP1C	Mx	-.000912	3.75
25	MP4A	X	0	.25
26	MP4A	Z	-7.047	.25
27	MP4A	Mx	.000912	.25
28	MP4A	X	0	5.25

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	-7.047	5.25
30	MP4A	Mx	.000912	5.25
31	MP4B	X	0	.25
32	MP4B	Z	-6.402	.25
33	MP4B	Mx	.002	.25
34	MP4B	X	0	5.25
35	MP4B	Z	-6.402	5.25
36	MP4B	Mx	.002	5.25
37	MP4C	X	0	.25
38	MP4C	Z	-5.758	.25
39	MP4C	Mx	-.003	.25
40	MP4C	X	0	5.25
41	MP4C	Z	-5.758	5.25
42	MP4C	Mx	-.003	5.25
43	MP2A	X	0	.25
44	MP2A	Z	-9.976	.25
45	MP2A	Mx	.007	.25
46	MP2A	X	0	5.25
47	MP2A	Z	-9.976	5.25
48	MP2A	Mx	.007	5.25
49	MP2B	X	0	.25
50	MP2B	Z	-9.262	.25
51	MP2B	Mx	-.000546	.25
52	MP2B	X	0	5.25
53	MP2B	Z	-9.262	5.25
54	MP2B	Mx	-.000546	5.25
55	MP2C	X	0	.25
56	MP2C	Z	-8.547	.25
57	MP2C	Mx	-.005	.25
58	MP2C	X	0	5.25
59	MP2C	Z	-8.547	5.25
60	MP2C	Mx	-.005	5.25
61	MP2A	X	0	.25
62	MP2A	Z	-9.976	.25
63	MP2A	Mx	-.004	.25
64	MP2A	X	0	5.25
65	MP2A	Z	-9.976	5.25
66	MP2A	Mx	-.004	5.25
67	MP2B	X	0	.25
68	MP2B	Z	-9.262	.25
69	MP2B	Mx	.007	.25
70	MP2B	X	0	5.25
71	MP2B	Z	-9.262	5.25
72	MP2B	Mx	.007	5.25
73	MP2C	X	0	.25
74	MP2C	Z	-8.547	.25
75	MP2C	Mx	-.003	.25
76	MP2C	X	0	5.25
77	MP2C	Z	-8.547	5.25
78	MP2C	Mx	-.003	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	-3.761	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	-3.73	.5
84	MP1A	Mx	.002	.5
85	MP1B	X	0	.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	-2.978	.5
87	MP1B	Mx	-0.001	.5
88	MP1C	X	0	.5
89	MP1C	Z	-2.226	.5
90	MP1C	Mx	-0.000288	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	-3.761	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	-3.761	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	1.191	5.5
2	MP2A	Z	-2.063	5.5
3	MP2A	Mx	.001	5.5
4	MP2A	X	1.191	5.5
5	MP2A	Z	-2.063	5.5
6	MP2A	Mx	-0.000151	5.5
7	MP1A	X	2.325	1.75
8	MP1A	Z	-4.027	1.75
9	MP1A	Mx	-0.000602	1.75
10	MP1A	X	2.325	3.75
11	MP1A	Z	-4.027	3.75
12	MP1A	Mx	-0.000602	3.75
13	MP1B	X	.944	1.75
14	MP1B	Z	-1.636	1.75
15	MP1B	Mx	.000912	1.75
16	MP1B	X	.944	3.75
17	MP1B	Z	-1.636	3.75
18	MP1B	Mx	.000912	3.75
19	MP1C	X	1.635	1.75
20	MP1C	Z	-2.831	1.75
21	MP1C	Mx	-.001	1.75
22	MP1C	X	1.635	3.75
23	MP1C	Z	-2.831	3.75
24	MP1C	Mx	-.001	3.75
25	MP4A	X	3.523	.25
26	MP4A	Z	-6.103	.25
27	MP4A	Mx	-0.000912	.25
28	MP4A	X	3.523	5.25
29	MP4A	Z	-6.103	5.25
30	MP4A	Mx	-0.000912	5.25
31	MP4B	X	2.879	.25
32	MP4B	Z	-4.987	.25
33	MP4B	Mx	.003	.25
34	MP4B	X	2.879	5.25
35	MP4B	Z	-4.987	5.25
36	MP4B	Mx	.003	5.25
37	MP4C	X	3.201	.25
38	MP4C	Z	-5.545	.25
39	MP4C	Mx	-.002	.25
40	MP4C	X	3.201	5.25
41	MP4C	Z	-5.545	5.25
42	MP4C	Mx	-.002	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2A	X	4.988	.25
44	MP2A	Z	-8.64	.25
45	MP2A	Mx	.004	.25
46	MP2A	X	4.988	5.25
47	MP2A	Z	-8.64	5.25
48	MP2A	Mx	.004	5.25
49	MP2B	X	4.274	.25
50	MP2B	Z	-7.402	.25
51	MP2B	Mx	.003	.25
52	MP2B	X	4.274	5.25
53	MP2B	Z	-7.402	5.25
54	MP2B	Mx	.003	5.25
55	MP2C	X	4.631	.25
56	MP2C	Z	-8.021	.25
57	MP2C	Mx	-.007	.25
58	MP2C	X	4.631	5.25
59	MP2C	Z	-8.021	5.25
60	MP2C	Mx	-.007	5.25
61	MP2A	X	4.988	.25
62	MP2A	Z	-8.64	.25
63	MP2A	Mx	-.007	.25
64	MP2A	X	4.988	5.25
65	MP2A	Z	-8.64	5.25
66	MP2A	Mx	-.007	5.25
67	MP2B	X	4.274	.25
68	MP2B	Z	-7.402	.25
69	MP2B	Mx	.005	.25
70	MP2B	X	4.274	5.25
71	MP2B	Z	-7.402	5.25
72	MP2B	Mx	.005	5.25
73	MP2C	X	4.631	.25
74	MP2C	Z	-8.021	.25
75	MP2C	Mx	.000546	.25
76	MP2C	X	4.631	5.25
77	MP2C	Z	-8.021	5.25
78	MP2C	Mx	.000546	5.25
79	RADIOA	X	1.607	.5
80	RADIOA	Z	-2.783	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	1.865	.5
83	MP1A	Z	-3.23	.5
84	MP1A	Mx	.002	.5
85	MP1B	X	1.113	.5
86	MP1B	Z	-1.927	.5
87	MP1B	Mx	-.000288	.5
88	MP1C	X	1.489	.5
89	MP1C	Z	-2.579	.5
90	MP1C	Mx	-.001	.5
91	RADIOB	X	1.607	.5
92	RADIOB	Z	-2.783	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	1.607	.5
95	RADIOC	Z	-2.783	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.066	5.5
2	MP2A	Z	-1.193	5.5
3	MP2A	Mx	.002	5.5
4	MP2A	X	2.066	5.5
5	MP2A	Z	-1.193	5.5
6	MP2A	Mx	.001	5.5
7	MP1A	X	2.831	1.75
8	MP1A	Z	-1.635	1.75
9	MP1A	Mx	-.001	1.75
10	MP1A	X	2.831	3.75
11	MP1A	Z	-1.635	3.75
12	MP1A	Mx	-.001	3.75
13	MP1B	X	1.636	1.75
14	MP1B	Z	-.944	1.75
15	MP1B	Mx	.000912	1.75
16	MP1B	X	1.636	3.75
17	MP1B	Z	-.944	3.75
18	MP1B	Mx	.000912	3.75
19	MP1C	X	4.027	1.75
20	MP1C	Z	-2.325	1.75
21	MP1C	Mx	-.000602	1.75
22	MP1C	X	4.027	3.75
23	MP1C	Z	-2.325	3.75
24	MP1C	Mx	-.000602	3.75
25	MP4A	X	5.545	.25
26	MP4A	Z	-3.201	.25
27	MP4A	Mx	-.002	.25
28	MP4A	X	5.545	5.25
29	MP4A	Z	-3.201	5.25
30	MP4A	Mx	-.002	5.25
31	MP4B	X	4.987	.25
32	MP4B	Z	-2.879	.25
33	MP4B	Mx	.003	.25
34	MP4B	X	4.987	5.25
35	MP4B	Z	-2.879	5.25
36	MP4B	Mx	.003	5.25
37	MP4C	X	6.103	.25
38	MP4C	Z	-3.523	.25
39	MP4C	Mx	-.000912	.25
40	MP4C	X	6.103	5.25
41	MP4C	Z	-3.523	5.25
42	MP4C	Mx	-.000912	5.25
43	MP2A	X	8.021	.25
44	MP2A	Z	-4.631	.25
45	MP2A	Mx	.000546	.25
46	MP2A	X	8.021	5.25
47	MP2A	Z	-4.631	5.25
48	MP2A	Mx	.000546	5.25
49	MP2B	X	7.402	.25
50	MP2B	Z	-4.274	.25
51	MP2B	Mx	.005	.25
52	MP2B	X	7.402	5.25
53	MP2B	Z	-4.274	5.25
54	MP2B	Mx	.005	5.25
55	MP2C	X	8.64	.25
56	MP2C	Z	-4.988	.25
57	MP2C	Mx	-.007	.25

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	8.64	5.25
59	MP2C	Z	-4.988	5.25
60	MP2C	Mx	-.007	5.25
61	MP2A	X	8.021	.25
62	MP2A	Z	-4.631	.25
63	MP2A	Mx	-.007	.25
64	MP2A	X	8.021	5.25
65	MP2A	Z	-4.631	5.25
66	MP2A	Mx	-.007	5.25
67	MP2B	X	7.402	.25
68	MP2B	Z	-4.274	.25
69	MP2B	Mx	.003	.25
70	MP2B	X	7.402	5.25
71	MP2B	Z	-4.274	5.25
72	MP2B	Mx	.003	5.25
73	MP2C	X	8.64	.25
74	MP2C	Z	-4.988	.25
75	MP2C	Mx	.004	.25
76	MP2C	X	8.64	5.25
77	MP2C	Z	-4.988	5.25
78	MP2C	Mx	.004	5.25
79	RADIOA	X	2.308	.5
80	RADIOA	Z	-1.333	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	2.579	.5
83	MP1A	Z	-1.489	.5
84	MP1A	Mx	.001	.5
85	MP1B	X	1.927	.5
86	MP1B	Z	-1.113	.5
87	MP1B	Mx	.000288	.5
88	MP1C	X	3.23	.5
89	MP1C	Z	-1.865	.5
90	MP1C	Mx	-.002	.5
91	RADIOB	X	2.308	.5
92	RADIOB	Z	-1.333	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	2.308	.5
95	RADIOC	Z	-1.333	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.389	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	.003	5.5
4	MP2A	X	2.389	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.002	5.5
7	MP1A	X	1.889	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	-.000912	1.75
10	MP1A	X	1.889	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	-.000912	3.75
13	MP1B	X	3.269	1.75
14	MP1B	Z	0	1.75

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.001	1.75
16	MP1B	X	3.269	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	.001	3.75
19	MP1C	X	4.65	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	.000602	1.75
22	MP1C	X	4.65	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	.000602	3.75
25	MP4A	X	5.758	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	-.003	.25
28	MP4A	X	5.758	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	-.003	5.25
31	MP4B	X	6.402	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	.002	.25
34	MP4B	X	6.402	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	.002	5.25
37	MP4C	X	7.047	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	.000912	.25
40	MP4C	X	7.047	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	.000912	5.25
43	MP2A	X	8.547	.25
44	MP2A	Z	0	.25
45	MP2A	Mx	-.003	.25
46	MP2A	X	8.547	5.25
47	MP2A	Z	0	5.25
48	MP2A	Mx	-.003	5.25
49	MP2B	X	9.262	.25
50	MP2B	Z	0	.25
51	MP2B	Mx	.007	.25
52	MP2B	X	9.262	5.25
53	MP2B	Z	0	5.25
54	MP2B	Mx	.007	5.25
55	MP2C	X	9.976	.25
56	MP2C	Z	0	.25
57	MP2C	Mx	-.004	.25
58	MP2C	X	9.976	5.25
59	MP2C	Z	0	5.25
60	MP2C	Mx	-.004	5.25
61	MP2A	X	8.547	.25
62	MP2A	Z	0	.25
63	MP2A	Mx	-.005	.25
64	MP2A	X	8.547	5.25
65	MP2A	Z	0	5.25
66	MP2A	Mx	-.005	5.25
67	MP2B	X	9.262	.25
68	MP2B	Z	0	.25
69	MP2B	Mx	-.000546	.25
70	MP2B	X	9.262	5.25
71	MP2B	Z	0	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	2.879	5.25
30	MP4A	Mx	-.003	5.25
31	MP4B	X	6.103	.25
32	MP4B	Z	3.523	.25
33	MP4B	Mx	.000912	.25
34	MP4B	X	6.103	5.25
35	MP4B	Z	3.523	5.25
36	MP4B	Mx	.000912	5.25
37	MP4C	X	5.545	.25
38	MP4C	Z	3.201	.25
39	MP4C	Mx	.002	.25
40	MP4C	X	5.545	5.25
41	MP4C	Z	3.201	5.25
42	MP4C	Mx	.002	5.25
43	MP2A	X	7.402	.25
44	MP2A	Z	4.274	.25
45	MP2A	Mx	-.005	.25
46	MP2A	X	7.402	5.25
47	MP2A	Z	4.274	5.25
48	MP2A	Mx	-.005	5.25
49	MP2B	X	8.64	.25
50	MP2B	Z	4.988	.25
51	MP2B	Mx	.007	.25
52	MP2B	X	8.64	5.25
53	MP2B	Z	4.988	5.25
54	MP2B	Mx	.007	5.25
55	MP2C	X	8.021	.25
56	MP2C	Z	4.631	.25
57	MP2C	Mx	-.000546	.25
58	MP2C	X	8.021	5.25
59	MP2C	Z	4.631	5.25
60	MP2C	Mx	-.000546	5.25
61	MP2A	X	7.402	.25
62	MP2A	Z	4.274	.25
63	MP2A	Mx	-.003	.25
64	MP2A	X	7.402	5.25
65	MP2A	Z	4.274	5.25
66	MP2A	Mx	-.003	5.25
67	MP2B	X	8.64	.25
68	MP2B	Z	4.988	.25
69	MP2B	Mx	-.004	.25
70	MP2B	X	8.64	5.25
71	MP2B	Z	4.988	5.25
72	MP2B	Mx	-.004	5.25
73	MP2C	X	8.021	.25
74	MP2C	Z	4.631	.25
75	MP2C	Mx	.007	.25
76	MP2C	X	8.021	5.25
77	MP2C	Z	4.631	5.25
78	MP2C	Mx	.007	5.25
79	RADIOA	X	2.783	.5
80	RADIOA	Z	1.607	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	1.927	.5
83	MP1A	Z	1.113	.5
84	MP1A	Mx	-.000288	.5
85	MP1B	X	3.23	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP1B	Z	1.865	.5
87	MP1B	Mx	.002	.5
88	MP1C	X	2.579	.5
89	MP1C	Z	1.489	.5
90	MP1C	Mx	-.001	.5
91	RADIOB	X	2.783	.5
92	RADIOB	Z	1.607	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	2.783	.5
95	RADIOC	Z	1.607	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	1.193	5.5
2	MP2A	Z	2.066	5.5
3	MP2A	Mx	.001	5.5
4	MP2A	X	1.193	5.5
5	MP2A	Z	2.066	5.5
6	MP2A	Mx	.002	5.5
7	MP1A	X	1.635	1.75
8	MP1A	Z	2.831	1.75
9	MP1A	Mx	-.001	1.75
10	MP1A	X	1.635	3.75
11	MP1A	Z	2.831	3.75
12	MP1A	Mx	-.001	3.75
13	MP1B	X	2.325	1.75
14	MP1B	Z	4.027	1.75
15	MP1B	Mx	-.000602	1.75
16	MP1B	X	2.325	3.75
17	MP1B	Z	4.027	3.75
18	MP1B	Mx	-.000602	3.75
19	MP1C	X	.944	1.75
20	MP1C	Z	1.636	1.75
21	MP1C	Mx	.000912	1.75
22	MP1C	X	.944	3.75
23	MP1C	Z	1.636	3.75
24	MP1C	Mx	.000912	3.75
25	MP4A	X	3.201	.25
26	MP4A	Z	5.545	.25
27	MP4A	Mx	-.002	.25
28	MP4A	X	3.201	5.25
29	MP4A	Z	5.545	5.25
30	MP4A	Mx	-.002	5.25
31	MP4B	X	3.523	.25
32	MP4B	Z	6.103	.25
33	MP4B	Mx	-.000912	.25
34	MP4B	X	3.523	5.25
35	MP4B	Z	6.103	5.25
36	MP4B	Mx	-.000912	5.25
37	MP4C	X	2.879	.25
38	MP4C	Z	4.987	.25
39	MP4C	Mx	.003	.25
40	MP4C	X	2.879	5.25
41	MP4C	Z	4.987	5.25
42	MP4C	Mx	.003	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2A	X	4.631	.25
44	MP2A	Z	8.021	.25
45	MP2A	Mx	-.007	.25
46	MP2A	X	4.631	5.25
47	MP2A	Z	8.021	5.25
48	MP2A	Mx	-.007	5.25
49	MP2B	X	4.988	.25
50	MP2B	Z	8.64	.25
51	MP2B	Mx	.004	.25
52	MP2B	X	4.988	5.25
53	MP2B	Z	8.64	5.25
54	MP2B	Mx	.004	5.25
55	MP2C	X	4.274	.25
56	MP2C	Z	7.402	.25
57	MP2C	Mx	.003	.25
58	MP2C	X	4.274	5.25
59	MP2C	Z	7.402	5.25
60	MP2C	Mx	.003	5.25
61	MP2A	X	4.631	.25
62	MP2A	Z	8.021	.25
63	MP2A	Mx	.000546	.25
64	MP2A	X	4.631	5.25
65	MP2A	Z	8.021	5.25
66	MP2A	Mx	.000546	5.25
67	MP2B	X	4.988	.25
68	MP2B	Z	8.64	.25
69	MP2B	Mx	-.007	.25
70	MP2B	X	4.988	5.25
71	MP2B	Z	8.64	5.25
72	MP2B	Mx	-.007	5.25
73	MP2C	X	4.274	.25
74	MP2C	Z	7.402	.25
75	MP2C	Mx	.005	.25
76	MP2C	X	4.274	5.25
77	MP2C	Z	7.402	5.25
78	MP2C	Mx	.005	5.25
79	RADIOA	X	1.881	.5
80	RADIOA	Z	3.257	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	1.489	.5
83	MP1A	Z	2.579	.5
84	MP1A	Mx	-.001	.5
85	MP1B	X	1.865	.5
86	MP1B	Z	3.23	.5
87	MP1B	Mx	.002	.5
88	MP1C	X	1.113	.5
89	MP1C	Z	1.927	.5
90	MP1C	Mx	-.000288	.5
91	RADIOB	X	1.881	.5
92	RADIOB	Z	3.257	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	1.881	.5
95	RADIOC	Z	3.257	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	5.5
2	MP2A	Z	2.383	5.5
3	MP2A	Mx	-.000151	5.5
4	MP2A	X	0	5.5
5	MP2A	Z	2.383	5.5
6	MP2A	Mx	.001	5.5
7	MP1A	X	0	1.75
8	MP1A	Z	4.65	1.75
9	MP1A	Mx	-.000602	1.75
10	MP1A	X	0	3.75
11	MP1A	Z	4.65	3.75
12	MP1A	Mx	-.000602	3.75
13	MP1B	X	0	1.75
14	MP1B	Z	3.269	1.75
15	MP1B	Mx	-.001	1.75
16	MP1B	X	0	3.75
17	MP1B	Z	3.269	3.75
18	MP1B	Mx	-.001	3.75
19	MP1C	X	0	1.75
20	MP1C	Z	1.889	1.75
21	MP1C	Mx	.000912	1.75
22	MP1C	X	0	3.75
23	MP1C	Z	1.889	3.75
24	MP1C	Mx	.000912	3.75
25	MP4A	X	0	.25
26	MP4A	Z	7.047	.25
27	MP4A	Mx	-.000912	.25
28	MP4A	X	0	5.25
29	MP4A	Z	7.047	5.25
30	MP4A	Mx	-.000912	5.25
31	MP4B	X	0	.25
32	MP4B	Z	6.402	.25
33	MP4B	Mx	-.002	.25
34	MP4B	X	0	5.25
35	MP4B	Z	6.402	5.25
36	MP4B	Mx	-.002	5.25
37	MP4C	X	0	.25
38	MP4C	Z	5.758	.25
39	MP4C	Mx	.003	.25
40	MP4C	X	0	5.25
41	MP4C	Z	5.758	5.25
42	MP4C	Mx	.003	5.25
43	MP2A	X	0	.25
44	MP2A	Z	9.976	.25
45	MP2A	Mx	-.007	.25
46	MP2A	X	0	5.25
47	MP2A	Z	9.976	5.25
48	MP2A	Mx	-.007	5.25
49	MP2B	X	0	.25
50	MP2B	Z	9.262	.25
51	MP2B	Mx	.000546	.25
52	MP2B	X	0	5.25
53	MP2B	Z	9.262	5.25
54	MP2B	Mx	.000546	5.25
55	MP2C	X	0	.25
56	MP2C	Z	8.547	.25
57	MP2C	Mx	.005	.25

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2C	X	0	5.25
59	MP2C	Z	8.547	5.25
60	MP2C	Mx	.005	5.25
61	MP2A	X	0	.25
62	MP2A	Z	9.976	.25
63	MP2A	Mx	.004	.25
64	MP2A	X	0	5.25
65	MP2A	Z	9.976	5.25
66	MP2A	Mx	.004	5.25
67	MP2B	X	0	.25
68	MP2B	Z	9.262	.25
69	MP2B	Mx	-.007	.25
70	MP2B	X	0	5.25
71	MP2B	Z	9.262	5.25
72	MP2B	Mx	-.007	5.25
73	MP2C	X	0	.25
74	MP2C	Z	8.547	.25
75	MP2C	Mx	.003	.25
76	MP2C	X	0	5.25
77	MP2C	Z	8.547	5.25
78	MP2C	Mx	.003	5.25
79	RADIOA	X	0	.5
80	RADIOA	Z	3.761	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	0	.5
83	MP1A	Z	3.73	.5
84	MP1A	Mx	-.002	.5
85	MP1B	X	0	.5
86	MP1B	Z	2.978	.5
87	MP1B	Mx	.001	.5
88	MP1C	X	0	.5
89	MP1C	Z	2.226	.5
90	MP1C	Mx	.000288	.5
91	RADIOB	X	0	.5
92	RADIOB	Z	3.761	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	0	.5
95	RADIOC	Z	3.761	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-1.191	5.5
2	MP2A	Z	2.063	5.5
3	MP2A	Mx	-.001	5.5
4	MP2A	X	-1.191	5.5
5	MP2A	Z	2.063	5.5
6	MP2A	Mx	.000151	5.5
7	MP1A	X	-2.325	1.75
8	MP1A	Z	4.027	1.75
9	MP1A	Mx	.000602	1.75
10	MP1A	X	-2.325	3.75
11	MP1A	Z	4.027	3.75
12	MP1A	Mx	.000602	3.75
13	MP1B	X	-.944	1.75
14	MP1B	Z	1.636	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	-.005	5.25
73	MP2C	X	-4.631	.25
74	MP2C	Z	8.021	.25
75	MP2C	Mx	-.000546	.25
76	MP2C	X	-4.631	5.25
77	MP2C	Z	8.021	5.25
78	MP2C	Mx	-.000546	5.25
79	RADIOA	X	-1.607	.5
80	RADIOA	Z	2.783	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-1.865	.5
83	MP1A	Z	3.23	.5
84	MP1A	Mx	-.002	.5
85	MP1B	X	-1.113	.5
86	MP1B	Z	1.927	.5
87	MP1B	Mx	.000288	.5
88	MP1C	X	-1.489	.5
89	MP1C	Z	2.579	.5
90	MP1C	Mx	.001	.5
91	RADIOB	X	-1.607	.5
92	RADIOB	Z	2.783	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-1.607	.5
95	RADIOC	Z	2.783	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-2.066	5.5
2	MP2A	Z	1.193	5.5
3	MP2A	Mx	-.002	5.5
4	MP2A	X	-2.066	5.5
5	MP2A	Z	1.193	5.5
6	MP2A	Mx	-.001	5.5
7	MP1A	X	-2.831	1.75
8	MP1A	Z	1.635	1.75
9	MP1A	Mx	.001	1.75
10	MP1A	X	-2.831	3.75
11	MP1A	Z	1.635	3.75
12	MP1A	Mx	.001	3.75
13	MP1B	X	-1.636	1.75
14	MP1B	Z	.944	1.75
15	MP1B	Mx	-.000912	1.75
16	MP1B	X	-1.636	3.75
17	MP1B	Z	.944	3.75
18	MP1B	Mx	-.000912	3.75
19	MP1C	X	-4.027	1.75
20	MP1C	Z	2.325	1.75
21	MP1C	Mx	.000602	1.75
22	MP1C	X	-4.027	3.75
23	MP1C	Z	2.325	3.75
24	MP1C	Mx	.000602	3.75
25	MP4A	X	-5.545	.25
26	MP4A	Z	3.201	.25
27	MP4A	Mx	.002	.25
28	MP4A	X	-5.545	5.25

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP4A	Z	3.201	5.25
30	MP4A	Mx	.002	5.25
31	MP4B	X	-4.987	.25
32	MP4B	Z	2.879	.25
33	MP4B	Mx	-.003	.25
34	MP4B	X	-4.987	5.25
35	MP4B	Z	2.879	5.25
36	MP4B	Mx	-.003	5.25
37	MP4C	X	-6.103	.25
38	MP4C	Z	3.523	.25
39	MP4C	Mx	.000912	.25
40	MP4C	X	-6.103	5.25
41	MP4C	Z	3.523	5.25
42	MP4C	Mx	.000912	5.25
43	MP2A	X	-8.021	.25
44	MP2A	Z	4.631	.25
45	MP2A	Mx	-.000546	.25
46	MP2A	X	-8.021	5.25
47	MP2A	Z	4.631	5.25
48	MP2A	Mx	-.000546	5.25
49	MP2B	X	-7.402	.25
50	MP2B	Z	4.274	.25
51	MP2B	Mx	-.005	.25
52	MP2B	X	-7.402	5.25
53	MP2B	Z	4.274	5.25
54	MP2B	Mx	-.005	5.25
55	MP2C	X	-8.64	.25
56	MP2C	Z	4.988	.25
57	MP2C	Mx	.007	.25
58	MP2C	X	-8.64	5.25
59	MP2C	Z	4.988	5.25
60	MP2C	Mx	.007	5.25
61	MP2A	X	-8.021	.25
62	MP2A	Z	4.631	.25
63	MP2A	Mx	.007	.25
64	MP2A	X	-8.021	5.25
65	MP2A	Z	4.631	5.25
66	MP2A	Mx	.007	5.25
67	MP2B	X	-7.402	.25
68	MP2B	Z	4.274	.25
69	MP2B	Mx	-.003	.25
70	MP2B	X	-7.402	5.25
71	MP2B	Z	4.274	5.25
72	MP2B	Mx	-.003	5.25
73	MP2C	X	-8.64	.25
74	MP2C	Z	4.988	.25
75	MP2C	Mx	-.004	.25
76	MP2C	X	-8.64	5.25
77	MP2C	Z	4.988	5.25
78	MP2C	Mx	-.004	5.25
79	RADIOA	X	-2.308	.5
80	RADIOA	Z	1.333	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-2.579	.5
83	MP1A	Z	1.489	.5
84	MP1A	Mx	-.001	.5
85	MP1B	X	-1.927	.5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP1B	Z	1.113	.5
87	MP1B	Mx	-.000288	.5
88	MP1C	X	-3.23	.5
89	MP1C	Z	1.865	.5
90	MP1C	Mx	.002	.5
91	RADIOB	X	-2.308	.5
92	RADIOB	Z	1.333	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-2.308	.5
95	RADIOC	Z	1.333	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	-2.389	5.5
2	MP2A	Z	0	5.5
3	MP2A	Mx	-.003	5.5
4	MP2A	X	-2.389	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.002	5.5
7	MP1A	X	-1.889	1.75
8	MP1A	Z	0	1.75
9	MP1A	Mx	.000912	1.75
10	MP1A	X	-1.889	3.75
11	MP1A	Z	0	3.75
12	MP1A	Mx	.000912	3.75
13	MP1B	X	-3.269	1.75
14	MP1B	Z	0	1.75
15	MP1B	Mx	-.001	1.75
16	MP1B	X	-3.269	3.75
17	MP1B	Z	0	3.75
18	MP1B	Mx	-.001	3.75
19	MP1C	X	-4.65	1.75
20	MP1C	Z	0	1.75
21	MP1C	Mx	-.000602	1.75
22	MP1C	X	-4.65	3.75
23	MP1C	Z	0	3.75
24	MP1C	Mx	-.000602	3.75
25	MP4A	X	-5.758	.25
26	MP4A	Z	0	.25
27	MP4A	Mx	.003	.25
28	MP4A	X	-5.758	5.25
29	MP4A	Z	0	5.25
30	MP4A	Mx	.003	5.25
31	MP4B	X	-6.402	.25
32	MP4B	Z	0	.25
33	MP4B	Mx	-.002	.25
34	MP4B	X	-6.402	5.25
35	MP4B	Z	0	5.25
36	MP4B	Mx	-.002	5.25
37	MP4C	X	-7.047	.25
38	MP4C	Z	0	.25
39	MP4C	Mx	-.000912	.25
40	MP4C	X	-7.047	5.25
41	MP4C	Z	0	5.25
42	MP4C	Mx	-.000912	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP2A	X	-8.547	.25
44	MP2A	Z	0	.25
45	MP2A	Mx	.003	.25
46	MP2A	X	-8.547	5.25
47	MP2A	Z	0	5.25
48	MP2A	Mx	.003	5.25
49	MP2B	X	-9.262	.25
50	MP2B	Z	0	.25
51	MP2B	Mx	-.007	.25
52	MP2B	X	-9.262	5.25
53	MP2B	Z	0	5.25
54	MP2B	Mx	-.007	5.25
55	MP2C	X	-9.976	.25
56	MP2C	Z	0	.25
57	MP2C	Mx	.004	.25
58	MP2C	X	-9.976	5.25
59	MP2C	Z	0	5.25
60	MP2C	Mx	.004	5.25
61	MP2A	X	-8.547	.25
62	MP2A	Z	0	.25
63	MP2A	Mx	.005	.25
64	MP2A	X	-8.547	5.25
65	MP2A	Z	0	5.25
66	MP2A	Mx	.005	5.25
67	MP2B	X	-9.262	.25
68	MP2B	Z	0	.25
69	MP2B	Mx	.000546	.25
70	MP2B	X	-9.262	5.25
71	MP2B	Z	0	5.25
72	MP2B	Mx	.000546	5.25
73	MP2C	X	-9.976	.25
74	MP2C	Z	0	.25
75	MP2C	Mx	-.007	.25
76	MP2C	X	-9.976	5.25
77	MP2C	Z	0	5.25
78	MP2C	Mx	-.007	5.25
79	RADIOA	X	-2.665	.5
80	RADIOA	Z	0	.5
81	RADIOA	Mx	0	.5
82	MP1A	X	-2.226	.5
83	MP1A	Z	0	.5
84	MP1A	Mx	-.000288	.5
85	MP1B	X	-2.978	.5
86	MP1B	Z	0	.5
87	MP1B	Mx	-.001	.5
88	MP1C	X	-3.73	.5
89	MP1C	Z	0	.5
90	MP1C	Mx	.002	.5
91	RADIOB	X	-2.665	.5
92	RADIOB	Z	0	.5
93	RADIOB	Mx	0	.5
94	RADIOC	X	-2.665	.5
95	RADIOC	Z	0	.5
96	RADIOC	Mx	0	.5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.069	5.5
2	MP2A	Z	-1.194	5.5
3	MP2A	Mx	-.002	5.5
4	MP2A	X	-2.069	5.5
5	MP2A	Z	-1.194	5.5
6	MP2A	Mx	-.003	5.5
7	MP1A	X	-1.636	1.75
8	MP1A	Z	-.944	1.75
9	MP1A	Mx	.000912	1.75
10	MP1A	X	-1.636	3.75
11	MP1A	Z	-.944	3.75
12	MP1A	Mx	.000912	3.75
13	MP1B	X	-4.027	1.75
14	MP1B	Z	-2.325	1.75
15	MP1B	Mx	-.000602	1.75
16	MP1B	X	-4.027	3.75
17	MP1B	Z	-2.325	3.75
18	MP1B	Mx	-.000602	3.75
19	MP1C	X	-2.831	1.75
20	MP1C	Z	-1.635	1.75
21	MP1C	Mx	-.001	1.75
22	MP1C	X	-2.831	3.75
23	MP1C	Z	-1.635	3.75
24	MP1C	Mx	-.001	3.75
25	MP4A	X	-4.987	.25
26	MP4A	Z	-2.879	.25
27	MP4A	Mx	.003	.25
28	MP4A	X	-4.987	5.25
29	MP4A	Z	-2.879	5.25
30	MP4A	Mx	.003	5.25
31	MP4B	X	-6.103	.25
32	MP4B	Z	-3.523	.25
33	MP4B	Mx	-.000912	.25
34	MP4B	X	-6.103	5.25
35	MP4B	Z	-3.523	5.25
36	MP4B	Mx	-.000912	5.25
37	MP4C	X	-5.545	.25
38	MP4C	Z	-3.201	.25
39	MP4C	Mx	-.002	.25
40	MP4C	X	-5.545	5.25
41	MP4C	Z	-3.201	5.25
42	MP4C	Mx	-.002	5.25
43	MP2A	X	-7.402	.25
44	MP2A	Z	-4.274	.25
45	MP2A	Mx	.005	.25
46	MP2A	X	-7.402	5.25
47	MP2A	Z	-4.274	5.25
48	MP2A	Mx	.005	5.25
49	MP2B	X	-8.64	.25
50	MP2B	Z	-4.988	.25
51	MP2B	Mx	-.007	.25
52	MP2B	X	-8.64	5.25
53	MP2B	Z	-4.988	5.25
54	MP2B	Mx	-.007	5.25
55	MP2C	X	-8.021	.25
56	MP2C	Z	-4.631	.25
57	MP2C	Mx	.000546	.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1B	Mx	.000602	1.75
16	MP1B	X	-2.325	3.75
17	MP1B	Z	-4.027	3.75
18	MP1B	Mx	.000602	3.75
19	MP1C	X	-.944	1.75
20	MP1C	Z	-1.636	1.75
21	MP1C	Mx	-.000912	1.75
22	MP1C	X	-.944	3.75
23	MP1C	Z	-1.636	3.75
24	MP1C	Mx	-.000912	3.75
25	MP4A	X	-3.201	.25
26	MP4A	Z	-5.545	.25
27	MP4A	Mx	.002	.25
28	MP4A	X	-3.201	5.25
29	MP4A	Z	-5.545	5.25
30	MP4A	Mx	.002	5.25
31	MP4B	X	-3.523	.25
32	MP4B	Z	-6.103	.25
33	MP4B	Mx	.000912	.25
34	MP4B	X	-3.523	5.25
35	MP4B	Z	-6.103	5.25
36	MP4B	Mx	.000912	5.25
37	MP4C	X	-2.879	.25
38	MP4C	Z	-4.987	.25
39	MP4C	Mx	-.003	.25
40	MP4C	X	-2.879	5.25
41	MP4C	Z	-4.987	5.25
42	MP4C	Mx	-.003	5.25
43	MP2A	X	-4.631	.25
44	MP2A	Z	-8.021	.25
45	MP2A	Mx	.007	.25
46	MP2A	X	-4.631	5.25
47	MP2A	Z	-8.021	5.25
48	MP2A	Mx	.007	5.25
49	MP2B	X	-4.988	.25
50	MP2B	Z	-8.64	.25
51	MP2B	Mx	-.004	.25
52	MP2B	X	-4.988	5.25
53	MP2B	Z	-8.64	5.25
54	MP2B	Mx	-.004	5.25
55	MP2C	X	-4.274	.25
56	MP2C	Z	-7.402	.25
57	MP2C	Mx	-.003	.25
58	MP2C	X	-4.274	5.25
59	MP2C	Z	-7.402	5.25
60	MP2C	Mx	-.003	5.25
61	MP2A	X	-4.631	.25
62	MP2A	Z	-8.021	.25
63	MP2A	Mx	-.000546	.25
64	MP2A	X	-4.631	5.25
65	MP2A	Z	-8.021	5.25
66	MP2A	Mx	-.000546	5.25
67	MP2B	X	-4.988	.25
68	MP2B	Z	-8.64	.25
69	MP2B	Mx	.007	.25
70	MP2B	X	-4.988	5.25
71	MP2B	Z	-8.64	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP1A	My	0	3.75
12	MP1A	Mz	0	3.75
13	MP1B	Y	0	1.75
14	MP1B	My	0	1.75
15	MP1B	Mz	0	1.75
16	MP1B	Y	0	3.75
17	MP1B	My	0	3.75
18	MP1B	Mz	0	3.75
19	MP1C	Y	0	1.75
20	MP1C	My	0	1.75
21	MP1C	Mz	0	1.75
22	MP1C	Y	0	3.75
23	MP1C	My	0	3.75
24	MP1C	Mz	0	3.75
25	MP4A	Y	0	.25
26	MP4A	My	0	.25
27	MP4A	Mz	0	.25
28	MP4A	Y	0	5.25
29	MP4A	My	0	5.25
30	MP4A	Mz	0	5.25
31	MP4B	Y	0	.25
32	MP4B	My	0	.25
33	MP4B	Mz	0	.25
34	MP4B	Y	0	5.25
35	MP4B	My	0	5.25
36	MP4B	Mz	0	5.25
37	MP4C	Y	0	.25
38	MP4C	My	0	.25
39	MP4C	Mz	0	.25
40	MP4C	Y	0	5.25
41	MP4C	My	0	5.25
42	MP4C	Mz	0	5.25
43	MP2A	Y	0	.25
44	MP2A	My	0	.25
45	MP2A	Mz	0	.25
46	MP2A	Y	0	5.25
47	MP2A	My	0	5.25
48	MP2A	Mz	0	5.25
49	MP2B	Y	0	.25
50	MP2B	My	0	.25
51	MP2B	Mz	0	.25
52	MP2B	Y	0	5.25
53	MP2B	My	0	5.25
54	MP2B	Mz	0	5.25
55	MP2C	Y	0	.25
56	MP2C	My	0	.25
57	MP2C	Mz	0	.25
58	MP2C	Y	0	5.25
59	MP2C	My	0	5.25
60	MP2C	Mz	0	5.25
61	MP2A	Y	0	.25
62	MP2A	My	0	.25
63	MP2A	Mz	0	.25
64	MP2A	Y	0	5.25
65	MP2A	My	0	5.25
66	MP2A	Mz	0	5.25
67	MP2B	Y	0	.25

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP2B	My	0	.25
69	MP2B	Mz	0	.25
70	MP2B	Y	0	5.25
71	MP2B	My	0	5.25
72	MP2B	Mz	0	5.25
73	MP2C	Y	0	.25
74	MP2C	My	0	.25
75	MP2C	Mz	0	.25
76	MP2C	Y	0	5.25
77	MP2C	My	0	5.25
78	MP2C	Mz	0	5.25
79	RADIOA	Y	0	.5
80	RADIOA	My	0	.5
81	RADIOA	Mz	0	.5
82	MP1A	Y	0	.5
83	MP1A	My	0	.5
84	MP1A	Mz	0	.5
85	MP1B	Y	0	.5
86	MP1B	My	0	.5
87	MP1B	Mz	0	.5
88	MP1C	Y	0	.5
89	MP1C	My	0	.5
90	MP1C	Mz	0	.5
91	RADIOB	Y	0	.5
92	RADIOB	My	0	.5
93	RADIOB	Mz	0	.5
94	RADIOC	Y	0	.5
95	RADIOC	My	0	.5
96	RADIOC	Mz	0	.5

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Z	-.528	5.5
2	MP2A	Mx	3.3e-5	5.5
3	MP2A	Z	-.528	5.5
4	MP2A	Mx	-.000307	5.5
5	MP1A	Z	-1.306	1.75
6	MP1A	Mx	.000169	1.75
7	MP1A	Z	-1.306	3.75
8	MP1A	Mx	.000169	3.75
9	MP1B	Z	-1.306	1.75
10	MP1B	Mx	.000462	1.75
11	MP1B	Z	-1.306	3.75
12	MP1B	Mx	.000462	3.75
13	MP1C	Z	-1.306	1.75
14	MP1C	Mx	-.000631	1.75
15	MP1C	Z	-1.306	3.75
16	MP1C	Mx	-.000631	3.75
17	MP4A	Z	-.27	.25
18	MP4A	Mx	3.5e-5	.25
19	MP4A	Z	-.27	5.25
20	MP4A	Mx	3.5e-5	5.25
21	MP4B	Z	-.27	.25
22	MP4B	Mx	9.5e-5	.25
23	MP4B	Z	-.27	5.25
24	MP4B	Mx	9.5e-5	5.25



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
25	MP4C	Z	-.27	.25
26	MP4C	Mx	-.00013	.25
27	MP4C	Z	-.27	5.25
28	MP4C	Mx	-.00013	5.25
29	MP2A	Z	-.975	.25
30	MP2A	Mx	.000676	.25
31	MP2A	Z	-.975	5.25
32	MP2A	Mx	.000676	5.25
33	MP2B	Z	-.975	.25
34	MP2B	Mx	-5.7e-5	.25
35	MP2B	Z	-.975	5.25
36	MP2B	Mx	-5.7e-5	5.25
37	MP2C	Z	-.975	.25
38	MP2C	Mx	-.000618	.25
39	MP2C	Z	-.975	5.25
40	MP2C	Mx	-.000618	5.25
41	MP2A	Z	-.975	.25
42	MP2A	Mx	-.000423	.25
43	MP2A	Z	-.975	5.25
44	MP2A	Mx	-.000423	5.25
45	MP2B	Z	-.975	.25
46	MP2B	Mx	.000747	.25
47	MP2B	Z	-.975	5.25
48	MP2B	Mx	.000747	5.25
49	MP2C	Z	-.975	.25
50	MP2C	Mx	-.000324	.25
51	MP2C	Z	-.975	5.25
52	MP2C	Mx	-.000324	5.25
53	RADIOA	Z	-2.532	.5
54	RADIOA	Mx	0	.5
55	MP1A	Z	-2.109	.5
56	MP1A	Mx	.001	.5
57	MP1B	Z	-2.109	.5
58	MP1B	Mx	-.000746	.5
59	MP1C	Z	-2.109	.5
60	MP1C	Mx	-.000273	.5
61	RADIOB	Z	-2.532	.5
62	RADIOB	Mx	0	.5
63	RADIOC	Z	-2.532	.5
64	RADIOC	Mx	0	.5

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	.528	5.5
2	MP2A	Mx	.000556	5.5
3	MP2A	X	.528	5.5
4	MP2A	Mx	.000464	5.5
5	MP1A	X	1.306	1.75
6	MP1A	Mx	-.000631	1.75
7	MP1A	X	1.306	3.75
8	MP1A	Mx	-.000631	3.75
9	MP1B	X	1.306	1.75
10	MP1B	Mx	.000462	1.75
11	MP1B	X	1.306	3.75
12	MP1B	Mx	.000462	3.75
13	MP1C	X	1.306	1.75



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Distributed Loads (BLC 40 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
59	MP2B	Y	-4.754	-4.754	0	%100
60	MP3B	Y	-4.754	-4.754	0	%100
61	MP4B	Y	-4.754	-4.754	0	%100
62	RADIOA	Y	-4.649	-4.649	0	%100
63	M115	Y	-4.649	-4.649	0	%100
64	RADIOC	Y	-4.649	-4.649	0	%100
65	M121	Y	-4.649	-4.649	0	%100
66	RADIOB	Y	-4.649	-4.649	0	%100
67	M127A	Y	-4.649	-4.649	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	-25.486	-25.486	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-25.486	-25.486	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-6.372	-6.372	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-6.372	-6.372	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-6.372	-6.372	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-6.372	-6.372	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-25.188	-25.188	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-6.297	-6.297	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-6.297	-6.297	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-36	-36	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	-36	-36	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-1.44	-1.44	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-4.799	-4.799	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	-19.195	-19.195	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	-4.799	-4.799	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	-36	-36	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	-36	-36	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	-1.44	-1.44	0	%100
37	M52	X	0	0	0	%100
38	M52	Z	-10.477	-10.477	0	%100
39	M53	X	0	0	0	%100
40	M53	Z	-10.477	-10.477	0	%100
41	M54	X	0	0	0	%100
42	M54	Z	-10.264	-10.264	0	%100
43	M55	X	0	0	0	%100
44	M55	Z	-10.477	-10.477	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:17 AM
 Checked By: _____

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M56	X	0	0	%100
46	M56	Z	-10.477	-10.477	%100
47	M57	X	0	0	%100
48	M57	Z	-11.197	-11.197	%100
49	M58	X	0	0	%100
50	M58	Z	-11.197	-11.197	%100
51	M61	X	0	0	%100
52	M61	Z	-2.566	-2.566	%100
53	MP1A	X	0	0	%100
54	MP1A	Z	-9.118	-9.118	%100
55	M127	X	0	0	%100
56	M127	Z	-22.343	-22.343	%100
57	M128	X	0	0	%100
58	M128	Z	0	0	%100
59	M129	X	0	0	%100
60	M129	Z	-12.797	-12.797	%100
61	M130	X	0	0	%100
62	M130	Z	-12.797	-12.797	%100
63	M131	X	0	0	%100
64	M131	Z	0	0	%100
65	M132	X	0	0	%100
66	M132	Z	0	0	%100
67	M133	X	0	0	%100
68	M133	Z	0	0	%100
69	M134	X	0	0	%100
70	M134	Z	0	0	%100
71	M135	X	0	0	%100
72	M135	Z	0	0	%100
73	M69	X	0	0	%100
74	M69	Z	-10.477	-10.477	%100
75	M70	X	0	0	%100
76	M70	Z	-10.477	-10.477	%100
77	M71	X	0	0	%100
78	M71	Z	-2.566	-2.566	%100
79	M72	X	0	0	%100
80	M72	Z	-10.477	-10.477	%100
81	M73	X	0	0	%100
82	M73	Z	-10.477	-10.477	%100
83	M74	X	0	0	%100
84	M74	Z	-6.62	-6.62	%100
85	M75	X	0	0	%100
86	M75	Z	-6.62	-6.62	%100
87	M76	X	0	0	%100
88	M76	Z	-10.477	-10.477	%100
89	M77	X	0	0	%100
90	M77	Z	-10.477	-10.477	%100
91	M78	X	0	0	%100
92	M78	Z	-2.566	-2.566	%100
93	M79	X	0	0	%100
94	M79	Z	-10.477	-10.477	%100
95	M80	X	0	0	%100
96	M80	Z	-10.477	-10.477	%100
97	M81	X	0	0	%100
98	M81	Z	-6.62	-6.62	%100
99	M82	X	0	0	%100
100	M82	Z	-6.62	-6.62	%100
101	MP2A	X	0	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
102	MP2A	Z	-9.118	-9.118	0	%100
103	MP3A	X	0	0	0	%100
104	MP3A	Z	-9.118	-9.118	0	%100
105	MP4A	X	0	0	0	%100
106	MP4A	Z	-9.118	-9.118	0	%100
107	MP1C	X	0	0	0	%100
108	MP1C	Z	-9.118	-9.118	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-9.118	-9.118	0	%100
111	MP3C	X	0	0	0	%100
112	MP3C	Z	-9.118	-9.118	0	%100
113	MP4C	X	0	0	0	%100
114	MP4C	Z	-9.118	-9.118	0	%100
115	MP1B	X	0	0	0	%100
116	MP1B	Z	-9.118	-9.118	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-9.118	-9.118	0	%100
119	MP3B	X	0	0	0	%100
120	MP3B	Z	-9.118	-9.118	0	%100
121	MP4B	X	0	0	0	%100
122	MP4B	Z	-9.118	-9.118	0	%100
123	RADIOA	X	0	0	0	%100
124	RADIOA	Z	-9.264	-9.264	0	%100
125	M115	X	0	0	0	%100
126	M115	Z	-9.264	-9.264	0	%100
127	RADIOC	X	0	0	0	%100
128	RADIOC	Z	-9.264	-9.264	0	%100
129	M121	X	0	0	0	%100
130	M121	Z	-9.264	-9.264	0	%100
131	RADIOB	X	0	0	0	%100
132	RADIOB	Z	-9.264	-9.264	0	%100
133	M127A	X	0	0	0	%100
134	M127A	Z	-9.264	-9.264	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	9.557	9.557	0	%100
2	FAVE	Z	-16.554	-16.554	0	%100
3	M2	X	9.557	9.557	0	%100
4	M2	Z	-16.554	-16.554	0	%100
5	M3	X	9.557	9.557	0	%100
6	M3	Z	-16.554	-16.554	0	%100
7	M4	X	9.557	9.557	0	%100
8	M4	Z	-16.554	-16.554	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	9.445	9.445	0	%100
14	M7	Z	-16.36	-16.36	0	%100
15	M8	X	9.445	9.445	0	%100
16	M8	Z	-16.36	-16.36	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	.54	.54	0	%100
20	M13	Z	-.935	-.935	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
78	M71	Z	-6.667	-6.667	0	%100
79	M72	X	5.239	5.239	0	%100
80	M72	Z	-9.073	-9.073	0	%100
81	M73	X	5.239	5.239	0	%100
82	M73	Z	-9.073	-9.073	0	%100
83	M74	X	4.836	4.836	0	%100
84	M74	Z	-8.375	-8.375	0	%100
85	M75	X	4.836	4.836	0	%100
86	M75	Z	-8.375	-8.375	0	%100
87	M76	X	5.239	5.239	0	%100
88	M76	Z	-9.073	-9.073	0	%100
89	M77	X	5.239	5.239	0	%100
90	M77	Z	-9.073	-9.073	0	%100
91	M78	X	0	0	0	%100
92	M78	Z	0	0	0	%100
93	M79	X	5.239	5.239	0	%100
94	M79	Z	-9.073	-9.073	0	%100
95	M80	X	5.239	5.239	0	%100
96	M80	Z	-9.073	-9.073	0	%100
97	M81	X	2.547	2.547	0	%100
98	M81	Z	-4.411	-4.411	0	%100
99	M82	X	2.547	2.547	0	%100
100	M82	Z	-4.411	-4.411	0	%100
101	MP2A	X	4.559	4.559	0	%100
102	MP2A	Z	-7.896	-7.896	0	%100
103	MP3A	X	4.559	4.559	0	%100
104	MP3A	Z	-7.896	-7.896	0	%100
105	MP4A	X	4.559	4.559	0	%100
106	MP4A	Z	-7.896	-7.896	0	%100
107	MP1C	X	4.559	4.559	0	%100
108	MP1C	Z	-7.896	-7.896	0	%100
109	MP2C	X	4.559	4.559	0	%100
110	MP2C	Z	-7.896	-7.896	0	%100
111	MP3C	X	4.559	4.559	0	%100
112	MP3C	Z	-7.896	-7.896	0	%100
113	MP4C	X	4.559	4.559	0	%100
114	MP4C	Z	-7.896	-7.896	0	%100
115	MP1B	X	4.559	4.559	0	%100
116	MP1B	Z	-7.896	-7.896	0	%100
117	MP2B	X	4.559	4.559	0	%100
118	MP2B	Z	-7.896	-7.896	0	%100
119	MP3B	X	4.559	4.559	0	%100
120	MP3B	Z	-7.896	-7.896	0	%100
121	MP4B	X	4.559	4.559	0	%100
122	MP4B	Z	-7.896	-7.896	0	%100
123	RADIOA	X	4.632	4.632	0	%100
124	RADIOA	Z	-8.023	-8.023	0	%100
125	M115	X	4.632	4.632	0	%100
126	M115	Z	-8.023	-8.023	0	%100
127	RADIOC	X	4.632	4.632	0	%100
128	RADIOC	Z	-8.023	-8.023	0	%100
129	M121	X	4.632	4.632	0	%100
130	M121	Z	-8.023	-8.023	0	%100
131	RADIOB	X	4.632	4.632	0	%100
132	RADIOB	Z	-8.023	-8.023	0	%100
133	M127A	X	4.632	4.632	0	%100
134	M127A	Z	-8.023	-8.023	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
115	MP1B	X	7.896	7.896	0	%100
116	MP1B	Z	-4.559	-4.559	0	%100
117	MP2B	X	7.896	7.896	0	%100
118	MP2B	Z	-4.559	-4.559	0	%100
119	MP3B	X	7.896	7.896	0	%100
120	MP3B	Z	-4.559	-4.559	0	%100
121	MP4B	X	7.896	7.896	0	%100
122	MP4B	Z	-4.559	-4.559	0	%100
123	RADIOA	X	8.023	8.023	0	%100
124	RADIOA	Z	-4.632	-4.632	0	%100
125	M115	X	8.023	8.023	0	%100
126	M115	Z	-4.632	-4.632	0	%100
127	RADIOC	X	8.023	8.023	0	%100
128	RADIOC	Z	-4.632	-4.632	0	%100
129	M121	X	8.023	8.023	0	%100
130	M121	Z	-4.632	-4.632	0	%100
131	RADIOB	X	8.023	8.023	0	%100
132	RADIOB	Z	-4.632	-4.632	0	%100
133	M127A	X	8.023	8.023	0	%100
134	M127A	Z	-4.632	-4.632	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	19.115	19.115	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	19.115	19.115	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	19.115	19.115	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	19.115	19.115	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	18.891	18.891	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	18.891	18.891	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	1.08	1.08	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	1.08	1.08	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M25	X	14.396	14.396	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	14.396	14.396	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	1.08	1.08	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	1.08	1.08	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M78	X	7.698	7.698	0	%100
92	M78	Z	0	0	0	%100
93	M79	X	10.477	10.477	0	%100
94	M79	Z	0	0	0	%100
95	M80	X	10.477	10.477	0	%100
96	M80	Z	0	0	0	%100
97	M81	X	9.671	9.671	0	%100
98	M81	Z	0	0	0	%100
99	M82	X	9.671	9.671	0	%100
100	M82	Z	0	0	0	%100
101	MP2A	X	9.118	9.118	0	%100
102	MP2A	Z	0	0	0	%100
103	MP3A	X	9.118	9.118	0	%100
104	MP3A	Z	0	0	0	%100
105	MP4A	X	9.118	9.118	0	%100
106	MP4A	Z	0	0	0	%100
107	MP1C	X	9.118	9.118	0	%100
108	MP1C	Z	0	0	0	%100
109	MP2C	X	9.118	9.118	0	%100
110	MP2C	Z	0	0	0	%100
111	MP3C	X	9.118	9.118	0	%100
112	MP3C	Z	0	0	0	%100
113	MP4C	X	9.118	9.118	0	%100
114	MP4C	Z	0	0	0	%100
115	MP1B	X	9.118	9.118	0	%100
116	MP1B	Z	0	0	0	%100
117	MP2B	X	9.118	9.118	0	%100
118	MP2B	Z	0	0	0	%100
119	MP3B	X	9.118	9.118	0	%100
120	MP3B	Z	0	0	0	%100
121	MP4B	X	9.118	9.118	0	%100
122	MP4B	Z	0	0	0	%100
123	RADIOA	X	9.264	9.264	0	%100
124	RADIOA	Z	0	0	0	%100
125	M115	X	9.264	9.264	0	%100
126	M115	Z	0	0	0	%100
127	RADIOC	X	9.264	9.264	0	%100
128	RADIOC	Z	0	0	0	%100
129	M121	X	9.264	9.264	0	%100
130	M121	Z	0	0	0	%100
131	RADIOB	X	9.264	9.264	0	%100
132	RADIOB	Z	0	0	0	%100
133	M127A	X	9.264	9.264	0	%100
134	M127A	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	5.518	5.518	0	%100
2	FAVE	Z	3.186	3.186	0	%100
3	M2	X	5.518	5.518	0	%100
4	M2	Z	3.186	3.186	0	%100
5	M3	X	5.518	5.518	0	%100
6	M3	Z	3.186	3.186	0	%100
7	M4	X	5.518	5.518	0	%100
8	M4	Z	3.186	3.186	0	%100
9	M5	X	22.072	22.072	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M5	Z	12.743	12.743	0 %100
11	M6	X	22.072	22.072	0 %100
12	M6	Z	12.743	12.743	0 %100
13	M7	X	5.453	5.453	0 %100
14	M7	Z	3.148	3.148	0 %100
15	M8	X	5.453	5.453	0 %100
16	M8	Z	3.148	3.148	0 %100
17	M9	X	21.813	21.813	0 %100
18	M9	Z	12.594	12.594	0 %100
19	M13	X	.312	.312	0 %100
20	M13	Z	.18	.18	0 %100
21	M14A	X	1.247	1.247	0 %100
22	M14A	Z	.72	.72	0 %100
23	M18	X	.312	.312	0 %100
24	M18	Z	.18	.18	0 %100
25	M25	X	16.623	16.623	0 %100
26	M25	Z	9.597	9.597	0 %100
27	M26	X	4.156	4.156	0 %100
28	M26	Z	2.399	2.399	0 %100
29	M27	X	4.156	4.156	0 %100
30	M27	Z	2.399	2.399	0 %100
31	M34	X	.312	.312	0 %100
32	M34	Z	.18	.18	0 %100
33	M42	X	1.247	1.247	0 %100
34	M42	Z	.72	.72	0 %100
35	M50	X	.312	.312	0 %100
36	M50	Z	.18	.18	0 %100
37	M52	X	9.073	9.073	0 %100
38	M52	Z	5.239	5.239	0 %100
39	M53	X	9.073	9.073	0 %100
40	M53	Z	5.239	5.239	0 %100
41	M54	X	2.222	2.222	0 %100
42	M54	Z	1.283	1.283	0 %100
43	M55	X	9.073	9.073	0 %100
44	M55	Z	5.239	5.239	0 %100
45	M56	X	9.073	9.073	0 %100
46	M56	Z	5.239	5.239	0 %100
47	M57	X	5.733	5.733	0 %100
48	M57	Z	3.31	3.31	0 %100
49	M58	X	5.733	5.733	0 %100
50	M58	Z	3.31	3.31	0 %100
51	M61	X	2.222	2.222	0 %100
52	M61	Z	1.283	1.283	0 %100
53	MP1A	X	7.896	7.896	0 %100
54	MP1A	Z	4.559	4.559	0 %100
55	M127	X	4.837	4.837	0 %100
56	M127	Z	2.793	2.793	0 %100
57	M128	X	6.441	6.441	0 %100
58	M128	Z	3.719	3.719	0 %100
59	M129	X	11.082	11.082	0 %100
60	M129	Z	6.398	6.398	0 %100
61	M130	X	11.082	11.082	0 %100
62	M130	Z	6.398	6.398	0 %100
63	M131	X	1.743	1.743	0 %100
64	M131	Z	1.006	1.006	0 %100
65	M132	X	1.743	1.743	0 %100
66	M132	Z	1.006	1.006	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
124	RADIOA	Z	4.632	4.632	0	%100
125	M115	X	8.023	8.023	0	%100
126	M115	Z	4.632	4.632	0	%100
127	RADIOC	X	8.023	8.023	0	%100
128	RADIOC	Z	4.632	4.632	0	%100
129	M121	X	8.023	8.023	0	%100
130	M121	Z	4.632	4.632	0	%100
131	RADIOB	X	8.023	8.023	0	%100
132	RADIOB	Z	4.632	4.632	0	%100
133	M127A	X	8.023	8.023	0	%100
134	M127A	Z	4.632	4.632	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	9.557	9.557	0	%100
2	FAVE	Z	16.554	16.554	0	%100
3	M2	X	9.557	9.557	0	%100
4	M2	Z	16.554	16.554	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	9.557	9.557	0	%100
10	M5	Z	16.554	16.554	0	%100
11	M6	X	9.557	9.557	0	%100
12	M6	Z	16.554	16.554	0	%100
13	M7	X	9.445	9.445	0	%100
14	M7	Z	16.36	16.36	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	9.445	9.445	0	%100
18	M9	Z	16.36	16.36	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	.54	.54	0	%100
22	M14A	Z	.935	.935	0	%100
23	M18	X	.54	.54	0	%100
24	M18	Z	.935	.935	0	%100
25	M25	X	7.198	7.198	0	%100
26	M25	Z	12.467	12.467	0	%100
27	M26	X	7.198	7.198	0	%100
28	M26	Z	12.467	12.467	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	.54	.54	0	%100
34	M42	Z	.935	.935	0	%100
35	M50	X	.54	.54	0	%100
36	M50	Z	.935	.935	0	%100
37	M52	X	5.239	5.239	0	%100
38	M52	Z	9.073	9.073	0	%100
39	M53	X	5.239	5.239	0	%100
40	M53	Z	9.073	9.073	0	%100
41	M54	X	3.849	3.849	0	%100
42	M54	Z	6.667	6.667	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	M55	X	5.239	5.239	0 %100
44	M55	Z	9.073	9.073	0 %100
45	M56	X	5.239	5.239	0 %100
46	M56	Z	9.073	9.073	0 %100
47	M57	X	4.836	4.836	0 %100
48	M57	Z	8.375	8.375	0 %100
49	M58	X	4.836	4.836	0 %100
50	M58	Z	8.375	8.375	0 %100
51	M61	X	0	0	0 %100
52	M61	Z	0	0	0 %100
53	MP1A	X	4.559	4.559	0 %100
54	MP1A	Z	7.896	7.896	0 %100
55	M127	X	8.379	8.379	0 %100
56	M127	Z	14.512	14.512	0 %100
57	M128	X	1.24	1.24	0 %100
58	M128	Z	2.147	2.147	0 %100
59	M129	X	6.398	6.398	0 %100
60	M129	Z	11.082	11.082	0 %100
61	M130	X	6.398	6.398	0 %100
62	M130	Z	11.082	11.082	0 %100
63	M131	X	.335	.335	0 %100
64	M131	Z	.581	.581	0 %100
65	M132	X	.335	.335	0 %100
66	M132	Z	.581	.581	0 %100
67	M133	X	.335	.335	0 %100
68	M133	Z	.581	.581	0 %100
69	M134	X	.335	.335	0 %100
70	M134	Z	.581	.581	0 %100
71	M135	X	.335	.335	0 %100
72	M135	Z	.581	.581	0 %100
73	M69	X	5.239	5.239	0 %100
74	M69	Z	9.073	9.073	0 %100
75	M70	X	5.239	5.239	0 %100
76	M70	Z	9.073	9.073	0 %100
77	M71	X	0	0	0 %100
78	M71	Z	0	0	0 %100
79	M72	X	5.239	5.239	0 %100
80	M72	Z	9.073	9.073	0 %100
81	M73	X	5.239	5.239	0 %100
82	M73	Z	9.073	9.073	0 %100
83	M74	X	2.547	2.547	0 %100
84	M74	Z	4.411	4.411	0 %100
85	M75	X	2.547	2.547	0 %100
86	M75	Z	4.411	4.411	0 %100
87	M76	X	5.239	5.239	0 %100
88	M76	Z	9.073	9.073	0 %100
89	M77	X	5.239	5.239	0 %100
90	M77	Z	9.073	9.073	0 %100
91	M78	X	3.849	3.849	0 %100
92	M78	Z	6.667	6.667	0 %100
93	M79	X	5.239	5.239	0 %100
94	M79	Z	9.073	9.073	0 %100
95	M80	X	5.239	5.239	0 %100
96	M80	Z	9.073	9.073	0 %100
97	M81	X	4.836	4.836	0 %100
98	M81	Z	8.375	8.375	0 %100
99	M82	X	4.836	4.836	0 %100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
100	M82	Z	8.375	8.375	0 %100
101	MP2A	X	4.559	4.559	0 %100
102	MP2A	Z	7.896	7.896	0 %100
103	MP3A	X	4.559	4.559	0 %100
104	MP3A	Z	7.896	7.896	0 %100
105	MP4A	X	4.559	4.559	0 %100
106	MP4A	Z	7.896	7.896	0 %100
107	MP1C	X	4.559	4.559	0 %100
108	MP1C	Z	7.896	7.896	0 %100
109	MP2C	X	4.559	4.559	0 %100
110	MP2C	Z	7.896	7.896	0 %100
111	MP3C	X	4.559	4.559	0 %100
112	MP3C	Z	7.896	7.896	0 %100
113	MP4C	X	4.559	4.559	0 %100
114	MP4C	Z	7.896	7.896	0 %100
115	MP1B	X	4.559	4.559	0 %100
116	MP1B	Z	7.896	7.896	0 %100
117	MP2B	X	4.559	4.559	0 %100
118	MP2B	Z	7.896	7.896	0 %100
119	MP3B	X	4.559	4.559	0 %100
120	MP3B	Z	7.896	7.896	0 %100
121	MP4B	X	4.559	4.559	0 %100
122	MP4B	Z	7.896	7.896	0 %100
123	RADIOA	X	4.632	4.632	0 %100
124	RADIOA	Z	8.023	8.023	0 %100
125	M115	X	4.632	4.632	0 %100
126	M115	Z	8.023	8.023	0 %100
127	RADIOC	X	4.632	4.632	0 %100
128	RADIOC	Z	8.023	8.023	0 %100
129	M121	X	4.632	4.632	0 %100
130	M121	Z	8.023	8.023	0 %100
131	RADIOB	X	4.632	4.632	0 %100
132	RADIOB	Z	8.023	8.023	0 %100
133	M127A	X	4.632	4.632	0 %100
134	M127A	Z	8.023	8.023	0 %100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0 %100
2	FAVE	Z	25.486	25.486	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	25.486	25.486	0 %100
5	M3	X	0	0	0 %100
6	M3	Z	6.372	6.372	0 %100
7	M4	X	0	0	0 %100
8	M4	Z	6.372	6.372	0 %100
9	M5	X	0	0	0 %100
10	M5	Z	6.372	6.372	0 %100
11	M6	X	0	0	0 %100
12	M6	Z	6.372	6.372	0 %100
13	M7	X	0	0	0 %100
14	M7	Z	25.188	25.188	0 %100
15	M8	X	0	0	0 %100
16	M8	Z	6.297	6.297	0 %100
17	M9	X	0	0	0 %100
18	M9	Z	6.297	6.297	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M13	X	0	0	0	%100
20	M13	Z	.36	.36	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	.36	.36	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	1.44	1.44	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	4.799	4.799	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	19.195	19.195	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	4.799	4.799	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	.36	.36	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	.36	.36	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	1.44	1.44	0	%100
37	M52	X	0	0	0	%100
38	M52	Z	10.477	10.477	0	%100
39	M53	X	0	0	0	%100
40	M53	Z	10.477	10.477	0	%100
41	M54	X	0	0	0	%100
42	M54	Z	10.264	10.264	0	%100
43	M55	X	0	0	0	%100
44	M55	Z	10.477	10.477	0	%100
45	M56	X	0	0	0	%100
46	M56	Z	10.477	10.477	0	%100
47	M57	X	0	0	0	%100
48	M57	Z	11.197	11.197	0	%100
49	M58	X	0	0	0	%100
50	M58	Z	11.197	11.197	0	%100
51	M61	X	0	0	0	%100
52	M61	Z	2.566	2.566	0	%100
53	MP1A	X	0	0	0	%100
54	MP1A	Z	9.118	9.118	0	%100
55	M127	X	0	0	0	%100
56	M127	Z	22.343	22.343	0	%100
57	M128	X	0	0	0	%100
58	M128	Z	0	0	0	%100
59	M129	X	0	0	0	%100
60	M129	Z	12.797	12.797	0	%100
61	M130	X	0	0	0	%100
62	M130	Z	12.797	12.797	0	%100
63	M131	X	0	0	0	%100
64	M131	Z	0	0	0	%100
65	M132	X	0	0	0	%100
66	M132	Z	0	0	0	%100
67	M133	X	0	0	0	%100
68	M133	Z	0	0	0	%100
69	M134	X	0	0	0	%100
70	M134	Z	0	0	0	%100
71	M135	X	0	0	0	%100
72	M135	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	10.477	10.477	0	%100
75	M70	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	M70	Z	10.477	10.477	0 %100
77	M71	X	0	0	0 %100
78	M71	Z	2.566	2.566	0 %100
79	M72	X	0	0	0 %100
80	M72	Z	10.477	10.477	0 %100
81	M73	X	0	0	0 %100
82	M73	Z	10.477	10.477	0 %100
83	M74	X	0	0	0 %100
84	M74	Z	6.62	6.62	0 %100
85	M75	X	0	0	0 %100
86	M75	Z	6.62	6.62	0 %100
87	M76	X	0	0	0 %100
88	M76	Z	10.477	10.477	0 %100
89	M77	X	0	0	0 %100
90	M77	Z	10.477	10.477	0 %100
91	M78	X	0	0	0 %100
92	M78	Z	2.566	2.566	0 %100
93	M79	X	0	0	0 %100
94	M79	Z	10.477	10.477	0 %100
95	M80	X	0	0	0 %100
96	M80	Z	10.477	10.477	0 %100
97	M81	X	0	0	0 %100
98	M81	Z	6.62	6.62	0 %100
99	M82	X	0	0	0 %100
100	M82	Z	6.62	6.62	0 %100
101	MP2A	X	0	0	0 %100
102	MP2A	Z	9.118	9.118	0 %100
103	MP3A	X	0	0	0 %100
104	MP3A	Z	9.118	9.118	0 %100
105	MP4A	X	0	0	0 %100
106	MP4A	Z	9.118	9.118	0 %100
107	MP1C	X	0	0	0 %100
108	MP1C	Z	9.118	9.118	0 %100
109	MP2C	X	0	0	0 %100
110	MP2C	Z	9.118	9.118	0 %100
111	MP3C	X	0	0	0 %100
112	MP3C	Z	9.118	9.118	0 %100
113	MP4C	X	0	0	0 %100
114	MP4C	Z	9.118	9.118	0 %100
115	MP1B	X	0	0	0 %100
116	MP1B	Z	9.118	9.118	0 %100
117	MP2B	X	0	0	0 %100
118	MP2B	Z	9.118	9.118	0 %100
119	MP3B	X	0	0	0 %100
120	MP3B	Z	9.118	9.118	0 %100
121	MP4B	X	0	0	0 %100
122	MP4B	Z	9.118	9.118	0 %100
123	RADIOA	X	0	0	0 %100
124	RADIOA	Z	9.264	9.264	0 %100
125	M115	X	0	0	0 %100
126	M115	Z	9.264	9.264	0 %100
127	RADIOC	X	0	0	0 %100
128	RADIOC	Z	9.264	9.264	0 %100
129	M121	X	0	0	0 %100
130	M121	Z	9.264	9.264	0 %100
131	RADIOB	X	0	0	0 %100
132	RADIOB	Z	9.264	9.264	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
133	M127A	X	0	0	0	%100
134	M127A	Z	9.264	9.264	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-9.557	-9.557	0	%100
2	FAVE	Z	16.554	16.554	0	%100
3	M2	X	-9.557	-9.557	0	%100
4	M2	Z	16.554	16.554	0	%100
5	M3	X	-9.557	-9.557	0	%100
6	M3	Z	16.554	16.554	0	%100
7	M4	X	-9.557	-9.557	0	%100
8	M4	Z	16.554	16.554	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-9.445	-9.445	0	%100
14	M7	Z	16.36	16.36	0	%100
15	M8	X	-9.445	-9.445	0	%100
16	M8	Z	16.36	16.36	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	-.54	-.54	0	%100
20	M13	Z	.935	.935	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	-.54	-.54	0	%100
24	M18	Z	.935	.935	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-7.198	-7.198	0	%100
28	M26	Z	12.467	12.467	0	%100
29	M27	X	-7.198	-7.198	0	%100
30	M27	Z	12.467	12.467	0	%100
31	M34	X	-.54	-.54	0	%100
32	M34	Z	.935	.935	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	0	0	0	%100
35	M50	X	-.54	-.54	0	%100
36	M50	Z	.935	.935	0	%100
37	M52	X	-5.239	-5.239	0	%100
38	M52	Z	9.073	9.073	0	%100
39	M53	X	-5.239	-5.239	0	%100
40	M53	Z	9.073	9.073	0	%100
41	M54	X	-3.849	-3.849	0	%100
42	M54	Z	6.667	6.667	0	%100
43	M55	X	-5.239	-5.239	0	%100
44	M55	Z	9.073	9.073	0	%100
45	M56	X	-5.239	-5.239	0	%100
46	M56	Z	9.073	9.073	0	%100
47	M57	X	-4.836	-4.836	0	%100
48	M57	Z	8.375	8.375	0	%100
49	M58	X	-4.836	-4.836	0	%100
50	M58	Z	8.375	8.375	0	%100
51	M61	X	-3.849	-3.849	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
109	MP2C	X	-4.559	-4.559	0	%100
110	MP2C	Z	7.896	7.896	0	%100
111	MP3C	X	-4.559	-4.559	0	%100
112	MP3C	Z	7.896	7.896	0	%100
113	MP4C	X	-4.559	-4.559	0	%100
114	MP4C	Z	7.896	7.896	0	%100
115	MP1B	X	-4.559	-4.559	0	%100
116	MP1B	Z	7.896	7.896	0	%100
117	MP2B	X	-4.559	-4.559	0	%100
118	MP2B	Z	7.896	7.896	0	%100
119	MP3B	X	-4.559	-4.559	0	%100
120	MP3B	Z	7.896	7.896	0	%100
121	MP4B	X	-4.559	-4.559	0	%100
122	MP4B	Z	7.896	7.896	0	%100
123	RADIOA	X	-4.632	-4.632	0	%100
124	RADIOA	Z	8.023	8.023	0	%100
125	M115	X	-4.632	-4.632	0	%100
126	M115	Z	8.023	8.023	0	%100
127	RADIOC	X	-4.632	-4.632	0	%100
128	RADIOC	Z	8.023	8.023	0	%100
129	M121	X	-4.632	-4.632	0	%100
130	M121	Z	8.023	8.023	0	%100
131	RADIOB	X	-4.632	-4.632	0	%100
132	RADIOB	Z	8.023	8.023	0	%100
133	M127A	X	-4.632	-4.632	0	%100
134	M127A	Z	8.023	8.023	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-5.518	-5.518	0	%100
2	FAVE	Z	3.186	3.186	0	%100
3	M2	X	-5.518	-5.518	0	%100
4	M2	Z	3.186	3.186	0	%100
5	M3	X	-22.072	-22.072	0	%100
6	M3	Z	12.743	12.743	0	%100
7	M4	X	-22.072	-22.072	0	%100
8	M4	Z	12.743	12.743	0	%100
9	M5	X	-5.518	-5.518	0	%100
10	M5	Z	3.186	3.186	0	%100
11	M6	X	-5.518	-5.518	0	%100
12	M6	Z	3.186	3.186	0	%100
13	M7	X	-5.453	-5.453	0	%100
14	M7	Z	3.148	3.148	0	%100
15	M8	X	-21.813	-21.813	0	%100
16	M8	Z	12.594	12.594	0	%100
17	M9	X	-5.453	-5.453	0	%100
18	M9	Z	3.148	3.148	0	%100
19	M13	X	-1.247	-1.247	0	%100
20	M13	Z	.72	.72	0	%100
21	M14A	X	-.312	-.312	0	%100
22	M14A	Z	.18	.18	0	%100
23	M18	X	-.312	-.312	0	%100
24	M18	Z	.18	.18	0	%100
25	M25	X	-4.156	-4.156	0	%100
26	M25	Z	2.399	2.399	0	%100
27	M26	X	-4.156	-4.156	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
28	M26	Z	2.399	2.399	0 %100
29	M27	X	-16.623	-16.623	0 %100
30	M27	Z	9.597	9.597	0 %100
31	M34	X	-1.247	-1.247	0 %100
32	M34	Z	.72	.72	0 %100
33	M42	X	-.312	-.312	0 %100
34	M42	Z	.18	.18	0 %100
35	M50	X	-.312	-.312	0 %100
36	M50	Z	.18	.18	0 %100
37	M52	X	-9.073	-9.073	0 %100
38	M52	Z	5.239	5.239	0 %100
39	M53	X	-9.073	-9.073	0 %100
40	M53	Z	5.239	5.239	0 %100
41	M54	X	-2.222	-2.222	0 %100
42	M54	Z	1.283	1.283	0 %100
43	M55	X	-9.073	-9.073	0 %100
44	M55	Z	5.239	5.239	0 %100
45	M56	X	-9.073	-9.073	0 %100
46	M56	Z	5.239	5.239	0 %100
47	M57	X	-5.733	-5.733	0 %100
48	M57	Z	3.31	3.31	0 %100
49	M58	X	-5.733	-5.733	0 %100
50	M58	Z	3.31	3.31	0 %100
51	M61	X	-8.889	-8.889	0 %100
52	M61	Z	5.132	5.132	0 %100
53	MP1A	X	-7.896	-7.896	0 %100
54	MP1A	Z	4.559	4.559	0 %100
55	M127	X	-4.837	-4.837	0 %100
56	M127	Z	2.793	2.793	0 %100
57	M128	X	-6.441	-6.441	0 %100
58	M128	Z	3.719	3.719	0 %100
59	M129	X	-11.082	-11.082	0 %100
60	M129	Z	6.398	6.398	0 %100
61	M130	X	-11.082	-11.082	0 %100
62	M130	Z	6.398	6.398	0 %100
63	M131	X	-1.743	-1.743	0 %100
64	M131	Z	1.006	1.006	0 %100
65	M132	X	-1.743	-1.743	0 %100
66	M132	Z	1.006	1.006	0 %100
67	M133	X	-1.743	-1.743	0 %100
68	M133	Z	1.006	1.006	0 %100
69	M134	X	-1.743	-1.743	0 %100
70	M134	Z	1.006	1.006	0 %100
71	M135	X	-1.743	-1.743	0 %100
72	M135	Z	1.006	1.006	0 %100
73	M69	X	-9.073	-9.073	0 %100
74	M69	Z	5.239	5.239	0 %100
75	M70	X	-9.073	-9.073	0 %100
76	M70	Z	5.239	5.239	0 %100
77	M71	X	-8.889	-8.889	0 %100
78	M71	Z	5.132	5.132	0 %100
79	M72	X	-9.073	-9.073	0 %100
80	M72	Z	5.239	5.239	0 %100
81	M73	X	-9.073	-9.073	0 %100
82	M73	Z	5.239	5.239	0 %100
83	M74	X	-9.697	-9.697	0 %100
84	M74	Z	5.598	5.598	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M130	X	-12.797	-12.797	0 %100
62	M130	Z	0	0	0 %100
63	M131	X	-2.684	-2.684	0 %100
64	M131	Z	0	0	0 %100
65	M132	X	-2.684	-2.684	0 %100
66	M132	Z	0	0	0 %100
67	M133	X	-2.684	-2.684	0 %100
68	M133	Z	0	0	0 %100
69	M134	X	-2.684	-2.684	0 %100
70	M134	Z	0	0	0 %100
71	M135	X	-2.684	-2.684	0 %100
72	M135	Z	0	0	0 %100
73	M69	X	-10.477	-10.477	0 %100
74	M69	Z	0	0	0 %100
75	M70	X	-10.477	-10.477	0 %100
76	M70	Z	0	0	0 %100
77	M71	X	-7.698	-7.698	0 %100
78	M71	Z	0	0	0 %100
79	M72	X	-10.477	-10.477	0 %100
80	M72	Z	0	0	0 %100
81	M73	X	-10.477	-10.477	0 %100
82	M73	Z	0	0	0 %100
83	M74	X	-9.671	-9.671	0 %100
84	M74	Z	0	0	0 %100
85	M75	X	-9.671	-9.671	0 %100
86	M75	Z	0	0	0 %100
87	M76	X	-10.477	-10.477	0 %100
88	M76	Z	0	0	0 %100
89	M77	X	-10.477	-10.477	0 %100
90	M77	Z	0	0	0 %100
91	M78	X	-7.698	-7.698	0 %100
92	M78	Z	0	0	0 %100
93	M79	X	-10.477	-10.477	0 %100
94	M79	Z	0	0	0 %100
95	M80	X	-10.477	-10.477	0 %100
96	M80	Z	0	0	0 %100
97	M81	X	-9.671	-9.671	0 %100
98	M81	Z	0	0	0 %100
99	M82	X	-9.671	-9.671	0 %100
100	M82	Z	0	0	0 %100
101	MP2A	X	-9.118	-9.118	0 %100
102	MP2A	Z	0	0	0 %100
103	MP3A	X	-9.118	-9.118	0 %100
104	MP3A	Z	0	0	0 %100
105	MP4A	X	-9.118	-9.118	0 %100
106	MP4A	Z	0	0	0 %100
107	MP1C	X	-9.118	-9.118	0 %100
108	MP1C	Z	0	0	0 %100
109	MP2C	X	-9.118	-9.118	0 %100
110	MP2C	Z	0	0	0 %100
111	MP3C	X	-9.118	-9.118	0 %100
112	MP3C	Z	0	0	0 %100
113	MP4C	X	-9.118	-9.118	0 %100
114	MP4C	Z	0	0	0 %100
115	MP1B	X	-9.118	-9.118	0 %100
116	MP1B	Z	0	0	0 %100
117	MP2B	X	-9.118	-9.118	0 %100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
118	MP2B	Z	0	0	0	%100
119	MP3B	X	-9.118	-9.118	0	%100
120	MP3B	Z	0	0	0	%100
121	MP4B	X	-9.118	-9.118	0	%100
122	MP4B	Z	0	0	0	%100
123	RADIOA	X	-9.264	-9.264	0	%100
124	RADIOA	Z	0	0	0	%100
125	M115	X	-9.264	-9.264	0	%100
126	M115	Z	0	0	0	%100
127	RADIOC	X	-9.264	-9.264	0	%100
128	RADIOC	Z	0	0	0	%100
129	M121	X	-9.264	-9.264	0	%100
130	M121	Z	0	0	0	%100
131	RADIOB	X	-9.264	-9.264	0	%100
132	RADIOB	Z	0	0	0	%100
133	M127A	X	-9.264	-9.264	0	%100
134	M127A	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-5.518	-5.518	0	%100
2	FAVE	Z	-3.186	-3.186	0	%100
3	M2	X	-5.518	-5.518	0	%100
4	M2	Z	-3.186	-3.186	0	%100
5	M3	X	-5.518	-5.518	0	%100
6	M3	Z	-3.186	-3.186	0	%100
7	M4	X	-5.518	-5.518	0	%100
8	M4	Z	-3.186	-3.186	0	%100
9	M5	X	-22.072	-22.072	0	%100
10	M5	Z	-12.743	-12.743	0	%100
11	M6	X	-22.072	-22.072	0	%100
12	M6	Z	-12.743	-12.743	0	%100
13	M7	X	-5.453	-5.453	0	%100
14	M7	Z	-3.148	-3.148	0	%100
15	M8	X	-5.453	-5.453	0	%100
16	M8	Z	-3.148	-3.148	0	%100
17	M9	X	-21.813	-21.813	0	%100
18	M9	Z	-12.594	-12.594	0	%100
19	M13	X	-.312	-.312	0	%100
20	M13	Z	-.18	-.18	0	%100
21	M14A	X	-1.247	-1.247	0	%100
22	M14A	Z	-.72	-.72	0	%100
23	M18	X	-.312	-.312	0	%100
24	M18	Z	-.18	-.18	0	%100
25	M25	X	-16.623	-16.623	0	%100
26	M25	Z	-9.597	-9.597	0	%100
27	M26	X	-4.156	-4.156	0	%100
28	M26	Z	-2.399	-2.399	0	%100
29	M27	X	-4.156	-4.156	0	%100
30	M27	Z	-2.399	-2.399	0	%100
31	M34	X	-.312	-.312	0	%100
32	M34	Z	-.18	-.18	0	%100
33	M42	X	-1.247	-1.247	0	%100
34	M42	Z	-.72	-.72	0	%100
35	M50	X	-.312	-.312	0	%100
36	M50	Z	-.18	-.18	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M56	Z	-3.179	-3.179	0 %100
47	M57	X	0	0	0 %100
48	M57	Z	-3.536	-3.536	0 %100
49	M58	X	0	0	0 %100
50	M58	Z	-3.536	-3.536	0 %100
51	M61	X	0	0	0 %100
52	M61	Z	-.779	-.779	0 %100
53	MP1A	X	0	0	0 %100
54	MP1A	Z	-3.174	-3.174	0 %100
55	M127	X	0	0	0 %100
56	M127	Z	-5.279	-5.279	0 %100
57	M128	X	0	0	0 %100
58	M128	Z	0	0	0 %100
59	M129	X	0	0	0 %100
60	M129	Z	-3.835	-3.835	0 %100
61	M130	X	0	0	0 %100
62	M130	Z	-3.835	-3.835	0 %100
63	M131	X	0	0	0 %100
64	M131	Z	0	0	0 %100
65	M132	X	0	0	0 %100
66	M132	Z	0	0	0 %100
67	M133	X	0	0	0 %100
68	M133	Z	0	0	0 %100
69	M134	X	0	0	0 %100
70	M134	Z	0	0	0 %100
71	M135	X	0	0	0 %100
72	M135	Z	0	0	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	-3.179	-3.179	0 %100
75	M70	X	0	0	0 %100
76	M70	Z	-3.179	-3.179	0 %100
77	M71	X	0	0	0 %100
78	M71	Z	-.779	-.779	0 %100
79	M72	X	0	0	0 %100
80	M72	Z	-3.179	-3.179	0 %100
81	M73	X	0	0	0 %100
82	M73	Z	-3.179	-3.179	0 %100
83	M74	X	0	0	0 %100
84	M74	Z	-2.09	-2.09	0 %100
85	M75	X	0	0	0 %100
86	M75	Z	-2.09	-2.09	0 %100
87	M76	X	0	0	0 %100
88	M76	Z	-3.179	-3.179	0 %100
89	M77	X	0	0	0 %100
90	M77	Z	-3.179	-3.179	0 %100
91	M78	X	0	0	0 %100
92	M78	Z	-.779	-.779	0 %100
93	M79	X	0	0	0 %100
94	M79	Z	-3.179	-3.179	0 %100
95	M80	X	0	0	0 %100
96	M80	Z	-3.179	-3.179	0 %100
97	M81	X	0	0	0 %100
98	M81	Z	-2.09	-2.09	0 %100
99	M82	X	0	0	0 %100
100	M82	Z	-2.09	-2.09	0 %100
101	MP2A	X	0	0	0 %100
102	MP2A	Z	-3.174	-3.174	0 %100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
103	MP3A	X	0	0	0	%100
104	MP3A	Z	-3.174	-3.174	0	%100
105	MP4A	X	0	0	0	%100
106	MP4A	Z	-3.174	-3.174	0	%100
107	MP1C	X	0	0	0	%100
108	MP1C	Z	-3.174	-3.174	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-3.174	-3.174	0	%100
111	MP3C	X	0	0	0	%100
112	MP3C	Z	-3.174	-3.174	0	%100
113	MP4C	X	0	0	0	%100
114	MP4C	Z	-3.174	-3.174	0	%100
115	MP1B	X	0	0	0	%100
116	MP1B	Z	-3.174	-3.174	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-3.174	-3.174	0	%100
119	MP3B	X	0	0	0	%100
120	MP3B	Z	-3.174	-3.174	0	%100
121	MP4B	X	0	0	0	%100
122	MP4B	Z	-3.174	-3.174	0	%100
123	RADIOA	X	0	0	0	%100
124	RADIOA	Z	-2.872	-2.872	0	%100
125	M115	X	0	0	0	%100
126	M115	Z	-2.872	-2.872	0	%100
127	RADIOC	X	0	0	0	%100
128	RADIOC	Z	-2.872	-2.872	0	%100
129	M121	X	0	0	0	%100
130	M121	Z	-2.872	-2.872	0	%100
131	RADIOB	X	0	0	0	%100
132	RADIOB	Z	-2.872	-2.872	0	%100
133	M127A	X	0	0	0	%100
134	M127A	Z	-2.872	-2.872	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	2.292	2.292	0	%100
2	FAVE	Z	-3.971	-3.971	0	%100
3	M2	X	2.292	2.292	0	%100
4	M2	Z	-3.971	-3.971	0	%100
5	M3	X	2.292	2.292	0	%100
6	M3	Z	-3.971	-3.971	0	%100
7	M4	X	2.292	2.292	0	%100
8	M4	Z	-3.971	-3.971	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	2.272	2.272	0	%100
14	M7	Z	-3.936	-3.936	0	%100
15	M8	X	2.272	2.272	0	%100
16	M8	Z	-3.936	-3.936	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	.445	.445	0	%100
20	M13	Z	-.77	-.77	0	%100
21	M14A	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
115	MP1B	X	2.749	2.749	0	%100
116	MP1B	Z	-1.587	-1.587	0	%100
117	MP2B	X	2.749	2.749	0	%100
118	MP2B	Z	-1.587	-1.587	0	%100
119	MP3B	X	2.749	2.749	0	%100
120	MP3B	Z	-1.587	-1.587	0	%100
121	MP4B	X	2.749	2.749	0	%100
122	MP4B	Z	-1.587	-1.587	0	%100
123	RADIOA	X	2.487	2.487	0	%100
124	RADIOA	Z	-1.436	-1.436	0	%100
125	M115	X	2.487	2.487	0	%100
126	M115	Z	-1.436	-1.436	0	%100
127	RADIOC	X	2.487	2.487	0	%100
128	RADIOC	Z	-1.436	-1.436	0	%100
129	M121	X	2.487	2.487	0	%100
130	M121	Z	-1.436	-1.436	0	%100
131	RADIOB	X	2.487	2.487	0	%100
132	RADIOB	Z	-1.436	-1.436	0	%100
133	M127A	X	2.487	2.487	0	%100
134	M127A	Z	-1.436	-1.436	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	4.585	4.585	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	4.585	4.585	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	4.585	4.585	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	4.585	4.585	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	4.545	4.545	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	4.545	4.545	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	.89	.89	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	.89	.89	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M25	X	3.738	3.738	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	3.738	3.738	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	.89	.89	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	.89	.89	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
124	RADIOA	Z	1.436	1.436	0	%100
125	M115	X	2.487	2.487	0	%100
126	M115	Z	1.436	1.436	0	%100
127	RADIOC	X	2.487	2.487	0	%100
128	RADIOC	Z	1.436	1.436	0	%100
129	M121	X	2.487	2.487	0	%100
130	M121	Z	1.436	1.436	0	%100
131	RADIOB	X	2.487	2.487	0	%100
132	RADIOB	Z	1.436	1.436	0	%100
133	M127A	X	2.487	2.487	0	%100
134	M127A	Z	1.436	1.436	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	2.292	2.292	0	%100
2	FAVE	Z	3.971	3.971	0	%100
3	M2	X	2.292	2.292	0	%100
4	M2	Z	3.971	3.971	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	2.292	2.292	0	%100
10	M5	Z	3.971	3.971	0	%100
11	M6	X	2.292	2.292	0	%100
12	M6	Z	3.971	3.971	0	%100
13	M7	X	2.272	2.272	0	%100
14	M7	Z	3.936	3.936	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	2.272	2.272	0	%100
18	M9	Z	3.936	3.936	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	.445	.445	0	%100
22	M14A	Z	.77	.77	0	%100
23	M18	X	.445	.445	0	%100
24	M18	Z	.77	.77	0	%100
25	M25	X	1.869	1.869	0	%100
26	M25	Z	3.237	3.237	0	%100
27	M26	X	1.869	1.869	0	%100
28	M26	Z	3.237	3.237	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	.445	.445	0	%100
34	M42	Z	.77	.77	0	%100
35	M50	X	.445	.445	0	%100
36	M50	Z	.77	.77	0	%100
37	M52	X	1.589	1.589	0	%100
38	M52	Z	2.753	2.753	0	%100
39	M53	X	1.589	1.589	0	%100
40	M53	Z	2.753	2.753	0	%100
41	M54	X	1.168	1.168	0	%100
42	M54	Z	2.023	2.023	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
19	M13	X	0	0	0	%100
20	M13	Z	.297	.297	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	.297	.297	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	1.186	1.186	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	1.246	1.246	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	4.983	4.983	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	1.246	1.246	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	.297	.297	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	.297	.297	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	1.186	1.186	0	%100
37	M52	X	0	0	0	%100
38	M52	Z	3.179	3.179	0	%100
39	M53	X	0	0	0	%100
40	M53	Z	3.179	3.179	0	%100
41	M54	X	0	0	0	%100
42	M54	Z	3.115	3.115	0	%100
43	M55	X	0	0	0	%100
44	M55	Z	3.179	3.179	0	%100
45	M56	X	0	0	0	%100
46	M56	Z	3.179	3.179	0	%100
47	M57	X	0	0	0	%100
48	M57	Z	3.536	3.536	0	%100
49	M58	X	0	0	0	%100
50	M58	Z	3.536	3.536	0	%100
51	M61	X	0	0	0	%100
52	M61	Z	.779	.779	0	%100
53	MP1A	X	0	0	0	%100
54	MP1A	Z	3.174	3.174	0	%100
55	M127	X	0	0	0	%100
56	M127	Z	5.279	5.279	0	%100
57	M128	X	0	0	0	%100
58	M128	Z	0	0	0	%100
59	M129	X	0	0	0	%100
60	M129	Z	3.835	3.835	0	%100
61	M130	X	0	0	0	%100
62	M130	Z	3.835	3.835	0	%100
63	M131	X	0	0	0	%100
64	M131	Z	0	0	0	%100
65	M132	X	0	0	0	%100
66	M132	Z	0	0	0	%100
67	M133	X	0	0	0	%100
68	M133	Z	0	0	0	%100
69	M134	X	0	0	0	%100
70	M134	Z	0	0	0	%100
71	M135	X	0	0	0	%100
72	M135	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	3.179	3.179	0	%100
75	M70	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
76	M70	Z	3.179	3.179	0	%100
77	M71	X	0	0	0	%100
78	M71	Z	.779	.779	0	%100
79	M72	X	0	0	0	%100
80	M72	Z	3.179	3.179	0	%100
81	M73	X	0	0	0	%100
82	M73	Z	3.179	3.179	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	2.09	2.09	0	%100
85	M75	X	0	0	0	%100
86	M75	Z	2.09	2.09	0	%100
87	M76	X	0	0	0	%100
88	M76	Z	3.179	3.179	0	%100
89	M77	X	0	0	0	%100
90	M77	Z	3.179	3.179	0	%100
91	M78	X	0	0	0	%100
92	M78	Z	.779	.779	0	%100
93	M79	X	0	0	0	%100
94	M79	Z	3.179	3.179	0	%100
95	M80	X	0	0	0	%100
96	M80	Z	3.179	3.179	0	%100
97	M81	X	0	0	0	%100
98	M81	Z	2.09	2.09	0	%100
99	M82	X	0	0	0	%100
100	M82	Z	2.09	2.09	0	%100
101	MP2A	X	0	0	0	%100
102	MP2A	Z	3.174	3.174	0	%100
103	MP3A	X	0	0	0	%100
104	MP3A	Z	3.174	3.174	0	%100
105	MP4A	X	0	0	0	%100
106	MP4A	Z	3.174	3.174	0	%100
107	MP1C	X	0	0	0	%100
108	MP1C	Z	3.174	3.174	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	3.174	3.174	0	%100
111	MP3C	X	0	0	0	%100
112	MP3C	Z	3.174	3.174	0	%100
113	MP4C	X	0	0	0	%100
114	MP4C	Z	3.174	3.174	0	%100
115	MP1B	X	0	0	0	%100
116	MP1B	Z	3.174	3.174	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	3.174	3.174	0	%100
119	MP3B	X	0	0	0	%100
120	MP3B	Z	3.174	3.174	0	%100
121	MP4B	X	0	0	0	%100
122	MP4B	Z	3.174	3.174	0	%100
123	RADIOA	X	0	0	0	%100
124	RADIOA	Z	2.872	2.872	0	%100
125	M115	X	0	0	0	%100
126	M115	Z	2.872	2.872	0	%100
127	RADIOC	X	0	0	0	%100
128	RADIOC	Z	2.872	2.872	0	%100
129	M121	X	0	0	0	%100
130	M121	Z	2.872	2.872	0	%100
131	RADIOB	X	0	0	0	%100
132	RADIOB	Z	2.872	2.872	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
133	M127A	X	0	0	0	%100
134	M127A	Z	2.872	2.872	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-2.292	-2.292	0	%100
2	FAVE	Z	3.971	3.971	0	%100
3	M2	X	-2.292	-2.292	0	%100
4	M2	Z	3.971	3.971	0	%100
5	M3	X	-2.292	-2.292	0	%100
6	M3	Z	3.971	3.971	0	%100
7	M4	X	-2.292	-2.292	0	%100
8	M4	Z	3.971	3.971	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-2.272	-2.272	0	%100
14	M7	Z	3.936	3.936	0	%100
15	M8	X	-2.272	-2.272	0	%100
16	M8	Z	3.936	3.936	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	-.445	-.445	0	%100
20	M13	Z	.77	.77	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	-.445	-.445	0	%100
24	M18	Z	.77	.77	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-1.869	-1.869	0	%100
28	M26	Z	3.237	3.237	0	%100
29	M27	X	-1.869	-1.869	0	%100
30	M27	Z	3.237	3.237	0	%100
31	M34	X	-.445	-.445	0	%100
32	M34	Z	.77	.77	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	0	0	0	%100
35	M50	X	-.445	-.445	0	%100
36	M50	Z	.77	.77	0	%100
37	M52	X	-1.589	-1.589	0	%100
38	M52	Z	2.753	2.753	0	%100
39	M53	X	-1.589	-1.589	0	%100
40	M53	Z	2.753	2.753	0	%100
41	M54	X	-1.168	-1.168	0	%100
42	M54	Z	2.023	2.023	0	%100
43	M55	X	-1.589	-1.589	0	%100
44	M55	Z	2.753	2.753	0	%100
45	M56	X	-1.589	-1.589	0	%100
46	M56	Z	2.753	2.753	0	%100
47	M57	X	-1.527	-1.527	0	%100
48	M57	Z	2.645	2.645	0	%100
49	M58	X	-1.527	-1.527	0	%100
50	M58	Z	2.645	2.645	0	%100
51	M61	X	-1.168	-1.168	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
109	MP2C	X	-1.587	-1.587	0	%100
110	MP2C	Z	2.749	2.749	0	%100
111	MP3C	X	-1.587	-1.587	0	%100
112	MP3C	Z	2.749	2.749	0	%100
113	MP4C	X	-1.587	-1.587	0	%100
114	MP4C	Z	2.749	2.749	0	%100
115	MP1B	X	-1.587	-1.587	0	%100
116	MP1B	Z	2.749	2.749	0	%100
117	MP2B	X	-1.587	-1.587	0	%100
118	MP2B	Z	2.749	2.749	0	%100
119	MP3B	X	-1.587	-1.587	0	%100
120	MP3B	Z	2.749	2.749	0	%100
121	MP4B	X	-1.587	-1.587	0	%100
122	MP4B	Z	2.749	2.749	0	%100
123	RADIOA	X	-1.436	-1.436	0	%100
124	RADIOA	Z	2.487	2.487	0	%100
125	M115	X	-1.436	-1.436	0	%100
126	M115	Z	2.487	2.487	0	%100
127	RADIOC	X	-1.436	-1.436	0	%100
128	RADIOC	Z	2.487	2.487	0	%100
129	M121	X	-1.436	-1.436	0	%100
130	M121	Z	2.487	2.487	0	%100
131	RADIOB	X	-1.436	-1.436	0	%100
132	RADIOB	Z	2.487	2.487	0	%100
133	M127A	X	-1.436	-1.436	0	%100
134	M127A	Z	2.487	2.487	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-1.324	-1.324	0	%100
2	FAVE	Z	.764	.764	0	%100
3	M2	X	-1.324	-1.324	0	%100
4	M2	Z	.764	.764	0	%100
5	M3	X	-5.294	-5.294	0	%100
6	M3	Z	3.057	3.057	0	%100
7	M4	X	-5.294	-5.294	0	%100
8	M4	Z	3.057	3.057	0	%100
9	M5	X	-1.324	-1.324	0	%100
10	M5	Z	.764	.764	0	%100
11	M6	X	-1.324	-1.324	0	%100
12	M6	Z	.764	.764	0	%100
13	M7	X	-1.312	-1.312	0	%100
14	M7	Z	.757	.757	0	%100
15	M8	X	-5.248	-5.248	0	%100
16	M8	Z	3.03	3.03	0	%100
17	M9	X	-1.312	-1.312	0	%100
18	M9	Z	.757	.757	0	%100
19	M13	X	-1.027	-1.027	0	%100
20	M13	Z	.593	.593	0	%100
21	M14A	X	-.257	-.257	0	%100
22	M14A	Z	.148	.148	0	%100
23	M18	X	-.257	-.257	0	%100
24	M18	Z	.148	.148	0	%100
25	M25	X	-1.079	-1.079	0	%100
26	M25	Z	.623	.623	0	%100
27	M26	X	-1.079	-1.079	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
85	M75	X	-3.062	-3.062	0	%100
86	M75	Z	1.768	1.768	0	%100
87	M76	X	-2.753	-2.753	0	%100
88	M76	Z	1.589	1.589	0	%100
89	M77	X	-2.753	-2.753	0	%100
90	M77	Z	1.589	1.589	0	%100
91	M78	X	-.674	-.674	0	%100
92	M78	Z	.389	.389	0	%100
93	M79	X	-2.753	-2.753	0	%100
94	M79	Z	1.589	1.589	0	%100
95	M80	X	-2.753	-2.753	0	%100
96	M80	Z	1.589	1.589	0	%100
97	M81	X	-1.81	-1.81	0	%100
98	M81	Z	1.045	1.045	0	%100
99	M82	X	-1.81	-1.81	0	%100
100	M82	Z	1.045	1.045	0	%100
101	MP2A	X	-2.749	-2.749	0	%100
102	MP2A	Z	1.587	1.587	0	%100
103	MP3A	X	-2.749	-2.749	0	%100
104	MP3A	Z	1.587	1.587	0	%100
105	MP4A	X	-2.749	-2.749	0	%100
106	MP4A	Z	1.587	1.587	0	%100
107	MP1C	X	-2.749	-2.749	0	%100
108	MP1C	Z	1.587	1.587	0	%100
109	MP2C	X	-2.749	-2.749	0	%100
110	MP2C	Z	1.587	1.587	0	%100
111	MP3C	X	-2.749	-2.749	0	%100
112	MP3C	Z	1.587	1.587	0	%100
113	MP4C	X	-2.749	-2.749	0	%100
114	MP4C	Z	1.587	1.587	0	%100
115	MP1B	X	-2.749	-2.749	0	%100
116	MP1B	Z	1.587	1.587	0	%100
117	MP2B	X	-2.749	-2.749	0	%100
118	MP2B	Z	1.587	1.587	0	%100
119	MP3B	X	-2.749	-2.749	0	%100
120	MP3B	Z	1.587	1.587	0	%100
121	MP4B	X	-2.749	-2.749	0	%100
122	MP4B	Z	1.587	1.587	0	%100
123	RADIOA	X	-2.487	-2.487	0	%100
124	RADIOA	Z	1.436	1.436	0	%100
125	M115	X	-2.487	-2.487	0	%100
126	M115	Z	1.436	1.436	0	%100
127	RADIOC	X	-2.487	-2.487	0	%100
128	RADIOC	Z	1.436	1.436	0	%100
129	M121	X	-2.487	-2.487	0	%100
130	M121	Z	1.436	1.436	0	%100
131	RADIOB	X	-2.487	-2.487	0	%100
132	RADIOB	Z	1.436	1.436	0	%100
133	M127A	X	-2.487	-2.487	0	%100
134	M127A	Z	1.436	1.436	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	0	0	0	%100
3	M2	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M130	X	-3.835	-3.835	0 %100
62	M130	Z	0	0	0 %100
63	M131	X	-1.512	-1.512	0 %100
64	M131	Z	0	0	0 %100
65	M132	X	-1.512	-1.512	0 %100
66	M132	Z	0	0	0 %100
67	M133	X	-1.512	-1.512	0 %100
68	M133	Z	0	0	0 %100
69	M134	X	-1.512	-1.512	0 %100
70	M134	Z	0	0	0 %100
71	M135	X	-1.512	-1.512	0 %100
72	M135	Z	0	0	0 %100
73	M69	X	-3.179	-3.179	0 %100
74	M69	Z	0	0	0 %100
75	M70	X	-3.179	-3.179	0 %100
76	M70	Z	0	0	0 %100
77	M71	X	-2.336	-2.336	0 %100
78	M71	Z	0	0	0 %100
79	M72	X	-3.179	-3.179	0 %100
80	M72	Z	0	0	0 %100
81	M73	X	-3.179	-3.179	0 %100
82	M73	Z	0	0	0 %100
83	M74	X	-3.054	-3.054	0 %100
84	M74	Z	0	0	0 %100
85	M75	X	-3.054	-3.054	0 %100
86	M75	Z	0	0	0 %100
87	M76	X	-3.179	-3.179	0 %100
88	M76	Z	0	0	0 %100
89	M77	X	-3.179	-3.179	0 %100
90	M77	Z	0	0	0 %100
91	M78	X	-2.336	-2.336	0 %100
92	M78	Z	0	0	0 %100
93	M79	X	-3.179	-3.179	0 %100
94	M79	Z	0	0	0 %100
95	M80	X	-3.179	-3.179	0 %100
96	M80	Z	0	0	0 %100
97	M81	X	-3.054	-3.054	0 %100
98	M81	Z	0	0	0 %100
99	M82	X	-3.054	-3.054	0 %100
100	M82	Z	0	0	0 %100
101	MP2A	X	-3.174	-3.174	0 %100
102	MP2A	Z	0	0	0 %100
103	MP3A	X	-3.174	-3.174	0 %100
104	MP3A	Z	0	0	0 %100
105	MP4A	X	-3.174	-3.174	0 %100
106	MP4A	Z	0	0	0 %100
107	MP1C	X	-3.174	-3.174	0 %100
108	MP1C	Z	0	0	0 %100
109	MP2C	X	-3.174	-3.174	0 %100
110	MP2C	Z	0	0	0 %100
111	MP3C	X	-3.174	-3.174	0 %100
112	MP3C	Z	0	0	0 %100
113	MP4C	X	-3.174	-3.174	0 %100
114	MP4C	Z	0	0	0 %100
115	MP1B	X	-3.174	-3.174	0 %100
116	MP1B	Z	0	0	0 %100
117	MP2B	X	-3.174	-3.174	0 %100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
118	MP2B	Z	0	0	0	%100
119	MP3B	X	-3.174	-3.174	0	%100
120	MP3B	Z	0	0	0	%100
121	MP4B	X	-3.174	-3.174	0	%100
122	MP4B	Z	0	0	0	%100
123	RADIOA	X	-2.872	-2.872	0	%100
124	RADIOA	Z	0	0	0	%100
125	M115	X	-2.872	-2.872	0	%100
126	M115	Z	0	0	0	%100
127	RADIOC	X	-2.872	-2.872	0	%100
128	RADIOC	Z	0	0	0	%100
129	M121	X	-2.872	-2.872	0	%100
130	M121	Z	0	0	0	%100
131	RADIOB	X	-2.872	-2.872	0	%100
132	RADIOB	Z	0	0	0	%100
133	M127A	X	-2.872	-2.872	0	%100
134	M127A	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-1.324	-1.324	0	%100
2	FAVE	Z	-.764	-.764	0	%100
3	M2	X	-1.324	-1.324	0	%100
4	M2	Z	-.764	-.764	0	%100
5	M3	X	-1.324	-1.324	0	%100
6	M3	Z	-.764	-.764	0	%100
7	M4	X	-1.324	-1.324	0	%100
8	M4	Z	-.764	-.764	0	%100
9	M5	X	-5.294	-5.294	0	%100
10	M5	Z	-3.057	-3.057	0	%100
11	M6	X	-5.294	-5.294	0	%100
12	M6	Z	-3.057	-3.057	0	%100
13	M7	X	-1.312	-1.312	0	%100
14	M7	Z	-.757	-.757	0	%100
15	M8	X	-1.312	-1.312	0	%100
16	M8	Z	-.757	-.757	0	%100
17	M9	X	-5.248	-5.248	0	%100
18	M9	Z	-3.03	-3.03	0	%100
19	M13	X	-.257	-.257	0	%100
20	M13	Z	-.148	-.148	0	%100
21	M14A	X	-1.027	-1.027	0	%100
22	M14A	Z	-.593	-.593	0	%100
23	M18	X	-.257	-.257	0	%100
24	M18	Z	-.148	-.148	0	%100
25	M25	X	-4.316	-4.316	0	%100
26	M25	Z	-2.492	-2.492	0	%100
27	M26	X	-1.079	-1.079	0	%100
28	M26	Z	-.623	-.623	0	%100
29	M27	X	-1.079	-1.079	0	%100
30	M27	Z	-.623	-.623	0	%100
31	M34	X	-.257	-.257	0	%100
32	M34	Z	-.148	-.148	0	%100
33	M42	X	-1.027	-1.027	0	%100
34	M42	Z	-.593	-.593	0	%100
35	M50	X	-.257	-.257	0	%100
36	M50	Z	-.148	-.148	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
70	M134	Z	-0.327	-0.327	0 %100
71	M135	X	-0.189	-0.189	0 %100
72	M135	Z	-0.327	-0.327	0 %100
73	M69	X	-1.589	-1.589	0 %100
74	M69	Z	-2.753	-2.753	0 %100
75	M70	X	-1.589	-1.589	0 %100
76	M70	Z	-2.753	-2.753	0 %100
77	M71	X	0	0	0 %100
78	M71	Z	0	0	0 %100
79	M72	X	-1.589	-1.589	0 %100
80	M72	Z	-2.753	-2.753	0 %100
81	M73	X	-1.589	-1.589	0 %100
82	M73	Z	-2.753	-2.753	0 %100
83	M74	X	-0.804	-0.804	0 %100
84	M74	Z	-1.393	-1.393	0 %100
85	M75	X	-0.804	-0.804	0 %100
86	M75	Z	-1.393	-1.393	0 %100
87	M76	X	-1.589	-1.589	0 %100
88	M76	Z	-2.753	-2.753	0 %100
89	M77	X	-1.589	-1.589	0 %100
90	M77	Z	-2.753	-2.753	0 %100
91	M78	X	-1.168	-1.168	0 %100
92	M78	Z	-2.023	-2.023	0 %100
93	M79	X	-1.589	-1.589	0 %100
94	M79	Z	-2.753	-2.753	0 %100
95	M80	X	-1.589	-1.589	0 %100
96	M80	Z	-2.753	-2.753	0 %100
97	M81	X	-1.527	-1.527	0 %100
98	M81	Z	-2.645	-2.645	0 %100
99	M82	X	-1.527	-1.527	0 %100
100	M82	Z	-2.645	-2.645	0 %100
101	MP2A	X	-1.587	-1.587	0 %100
102	MP2A	Z	-2.749	-2.749	0 %100
103	MP3A	X	-1.587	-1.587	0 %100
104	MP3A	Z	-2.749	-2.749	0 %100
105	MP4A	X	-1.587	-1.587	0 %100
106	MP4A	Z	-2.749	-2.749	0 %100
107	MP1C	X	-1.587	-1.587	0 %100
108	MP1C	Z	-2.749	-2.749	0 %100
109	MP2C	X	-1.587	-1.587	0 %100
110	MP2C	Z	-2.749	-2.749	0 %100
111	MP3C	X	-1.587	-1.587	0 %100
112	MP3C	Z	-2.749	-2.749	0 %100
113	MP4C	X	-1.587	-1.587	0 %100
114	MP4C	Z	-2.749	-2.749	0 %100
115	MP1B	X	-1.587	-1.587	0 %100
116	MP1B	Z	-2.749	-2.749	0 %100
117	MP2B	X	-1.587	-1.587	0 %100
118	MP2B	Z	-2.749	-2.749	0 %100
119	MP3B	X	-1.587	-1.587	0 %100
120	MP3B	Z	-2.749	-2.749	0 %100
121	MP4B	X	-1.587	-1.587	0 %100
122	MP4B	Z	-2.749	-2.749	0 %100
123	RADIOA	X	-1.436	-1.436	0 %100
124	RADIOA	Z	-2.487	-2.487	0 %100
125	M115	X	-1.436	-1.436	0 %100
126	M115	Z	-2.487	-2.487	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
127	RADIOC	X	-1.436	-1.436	0	%100
128	RADIOC	Z	-2.487	-2.487	0	%100
129	M121	X	-1.436	-1.436	0	%100
130	M121	Z	-2.487	-2.487	0	%100
131	RADIOB	X	-1.436	-1.436	0	%100
132	RADIOB	Z	-2.487	-2.487	0	%100
133	M127A	X	-1.436	-1.436	0	%100
134	M127A	Z	-2.487	-2.487	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	-1.647	-1.647	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.647	-1.647	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.412	-.412	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-.412	-.412	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.412	-.412	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-.412	-.412	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-1.628	-1.628	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.407	-.407	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-.407	-.407	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-.023	-.023	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	-.023	-.023	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-.093	-.093	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-.31	-.31	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	-1.241	-1.241	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	-.31	-.31	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	-.023	-.023	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	-.023	-.023	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	-.093	-.093	0	%100
37	M52	X	0	0	0	%100
38	M52	Z	-.677	-.677	0	%100
39	M53	X	0	0	0	%100
40	M53	Z	-.677	-.677	0	%100
41	M54	X	0	0	0	%100
42	M54	Z	-.663	-.663	0	%100
43	M55	X	0	0	0	%100
44	M55	Z	-.677	-.677	0	%100
45	M56	X	0	0	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
103	MP3A	X	0	0	0	%100
104	MP3A	Z	-.589	-.589	0	%100
105	MP4A	X	0	0	0	%100
106	MP4A	Z	-.589	-.589	0	%100
107	MP1C	X	0	0	0	%100
108	MP1C	Z	-.589	-.589	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-.589	-.589	0	%100
111	MP3C	X	0	0	0	%100
112	MP3C	Z	-.589	-.589	0	%100
113	MP4C	X	0	0	0	%100
114	MP4C	Z	-.589	-.589	0	%100
115	MP1B	X	0	0	0	%100
116	MP1B	Z	-.589	-.589	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-.589	-.589	0	%100
119	MP3B	X	0	0	0	%100
120	MP3B	Z	-.589	-.589	0	%100
121	MP4B	X	0	0	0	%100
122	MP4B	Z	-.589	-.589	0	%100
123	RADIOA	X	0	0	0	%100
124	RADIOA	Z	-.599	-.599	0	%100
125	M115	X	0	0	0	%100
126	M115	Z	-.599	-.599	0	%100
127	RADIOC	X	0	0	0	%100
128	RADIOC	Z	-.599	-.599	0	%100
129	M121	X	0	0	0	%100
130	M121	Z	-.599	-.599	0	%100
131	RADIOB	X	0	0	0	%100
132	RADIOB	Z	-.599	-.599	0	%100
133	M127A	X	0	0	0	%100
134	M127A	Z	-.599	-.599	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	.618	.618	0	%100
2	FAVE	Z	-1.07	-1.07	0	%100
3	M2	X	.618	.618	0	%100
4	M2	Z	-1.07	-1.07	0	%100
5	M3	X	.618	.618	0	%100
6	M3	Z	-1.07	-1.07	0	%100
7	M4	X	.618	.618	0	%100
8	M4	Z	-1.07	-1.07	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.611	.611	0	%100
14	M7	Z	-1.057	-1.057	0	%100
15	M8	X	.611	.611	0	%100
16	M8	Z	-1.057	-1.057	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	.035	.035	0	%100
20	M13	Z	-.06	-.06	0	%100
21	M14A	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M14A	Z	0	0	0	%100
23	M18	X	.035	.035	0	%100
24	M18	Z	-.06	-.06	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	.465	.465	0	%100
28	M26	Z	-.806	-.806	0	%100
29	M27	X	.465	.465	0	%100
30	M27	Z	-.806	-.806	0	%100
31	M34	X	.035	.035	0	%100
32	M34	Z	-.06	-.06	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	0	0	0	%100
35	M50	X	.035	.035	0	%100
36	M50	Z	-.06	-.06	0	%100
37	M52	X	.339	.339	0	%100
38	M52	Z	-.586	-.586	0	%100
39	M53	X	.339	.339	0	%100
40	M53	Z	-.586	-.586	0	%100
41	M54	X	.249	.249	0	%100
42	M54	Z	-.431	-.431	0	%100
43	M55	X	.339	.339	0	%100
44	M55	Z	-.586	-.586	0	%100
45	M56	X	.339	.339	0	%100
46	M56	Z	-.586	-.586	0	%100
47	M57	X	.313	.313	0	%100
48	M57	Z	-.541	-.541	0	%100
49	M58	X	.313	.313	0	%100
50	M58	Z	-.541	-.541	0	%100
51	M61	X	.249	.249	0	%100
52	M61	Z	-.431	-.431	0	%100
53	MP1A	X	.295	.295	0	%100
54	MP1A	Z	-.51	-.51	0	%100
55	M127	X	.542	.542	0	%100
56	M127	Z	-.938	-.938	0	%100
57	M128	X	.08	.08	0	%100
58	M128	Z	-.139	-.139	0	%100
59	M129	X	.414	.414	0	%100
60	M129	Z	-.716	-.716	0	%100
61	M130	X	.414	.414	0	%100
62	M130	Z	-.716	-.716	0	%100
63	M131	X	.022	.022	0	%100
64	M131	Z	-.038	-.038	0	%100
65	M132	X	.022	.022	0	%100
66	M132	Z	-.038	-.038	0	%100
67	M133	X	.022	.022	0	%100
68	M133	Z	-.038	-.038	0	%100
69	M134	X	.022	.022	0	%100
70	M134	Z	-.038	-.038	0	%100
71	M135	X	.022	.022	0	%100
72	M135	Z	-.038	-.038	0	%100
73	M69	X	.339	.339	0	%100
74	M69	Z	-.586	-.586	0	%100
75	M70	X	.339	.339	0	%100
76	M70	Z	-.586	-.586	0	%100
77	M71	X	.249	.249	0	%100
78	M71	Z	-.431	-.431	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M128	Z	-.24	-.24	0 %100
59	M129	X	.716	.716	0 %100
60	M129	Z	-.414	-.414	0 %100
61	M130	X	.716	.716	0 %100
62	M130	Z	-.414	-.414	0 %100
63	M131	X	.113	.113	0 %100
64	M131	Z	-.065	-.065	0 %100
65	M132	X	.113	.113	0 %100
66	M132	Z	-.065	-.065	0 %100
67	M133	X	.113	.113	0 %100
68	M133	Z	-.065	-.065	0 %100
69	M134	X	.113	.113	0 %100
70	M134	Z	-.065	-.065	0 %100
71	M135	X	.113	.113	0 %100
72	M135	Z	-.065	-.065	0 %100
73	M69	X	.586	.586	0 %100
74	M69	Z	-.339	-.339	0 %100
75	M70	X	.586	.586	0 %100
76	M70	Z	-.339	-.339	0 %100
77	M71	X	.575	.575	0 %100
78	M71	Z	-.332	-.332	0 %100
79	M72	X	.586	.586	0 %100
80	M72	Z	-.339	-.339	0 %100
81	M73	X	.586	.586	0 %100
82	M73	Z	-.339	-.339	0 %100
83	M74	X	.627	.627	0 %100
84	M74	Z	-.362	-.362	0 %100
85	M75	X	.627	.627	0 %100
86	M75	Z	-.362	-.362	0 %100
87	M76	X	.586	.586	0 %100
88	M76	Z	-.339	-.339	0 %100
89	M77	X	.586	.586	0 %100
90	M77	Z	-.339	-.339	0 %100
91	M78	X	.144	.144	0 %100
92	M78	Z	-.083	-.083	0 %100
93	M79	X	.586	.586	0 %100
94	M79	Z	-.339	-.339	0 %100
95	M80	X	.586	.586	0 %100
96	M80	Z	-.339	-.339	0 %100
97	M81	X	.371	.371	0 %100
98	M81	Z	-.214	-.214	0 %100
99	M82	X	.371	.371	0 %100
100	M82	Z	-.214	-.214	0 %100
101	MP2A	X	.51	.51	0 %100
102	MP2A	Z	-.295	-.295	0 %100
103	MP3A	X	.51	.51	0 %100
104	MP3A	Z	-.295	-.295	0 %100
105	MP4A	X	.51	.51	0 %100
106	MP4A	Z	-.295	-.295	0 %100
107	MP1C	X	.51	.51	0 %100
108	MP1C	Z	-.295	-.295	0 %100
109	MP2C	X	.51	.51	0 %100
110	MP2C	Z	-.295	-.295	0 %100
111	MP3C	X	.51	.51	0 %100
112	MP3C	Z	-.295	-.295	0 %100
113	MP4C	X	.51	.51	0 %100
114	MP4C	Z	-.295	-.295	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
115	MP1B	X	.51	.51	0	%100
116	MP1B	Z	-.295	-.295	0	%100
117	MP2B	X	.51	.51	0	%100
118	MP2B	Z	-.295	-.295	0	%100
119	MP3B	X	.51	.51	0	%100
120	MP3B	Z	-.295	-.295	0	%100
121	MP4B	X	.51	.51	0	%100
122	MP4B	Z	-.295	-.295	0	%100
123	RADIOA	X	.519	.519	0	%100
124	RADIOA	Z	-.299	-.299	0	%100
125	M115	X	.519	.519	0	%100
126	M115	Z	-.299	-.299	0	%100
127	RADIOC	X	.519	.519	0	%100
128	RADIOC	Z	-.299	-.299	0	%100
129	M121	X	.519	.519	0	%100
130	M121	Z	-.299	-.299	0	%100
131	RADIOB	X	.519	.519	0	%100
132	RADIOB	Z	-.299	-.299	0	%100
133	M127A	X	.519	.519	0	%100
134	M127A	Z	-.299	-.299	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	1.236	1.236	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	1.236	1.236	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	1.236	1.236	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	1.236	1.236	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	1.221	1.221	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	1.221	1.221	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	.07	.07	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	.07	.07	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M25	X	.931	.931	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	.931	.931	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	.07	.07	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	.07	.07	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M78	X	.498	.498	0	%100
92	M78	Z	0	0	0	%100
93	M79	X	.677	.677	0	%100
94	M79	Z	0	0	0	%100
95	M80	X	.677	.677	0	%100
96	M80	Z	0	0	0	%100
97	M81	X	.625	.625	0	%100
98	M81	Z	0	0	0	%100
99	M82	X	.625	.625	0	%100
100	M82	Z	0	0	0	%100
101	MP2A	X	.589	.589	0	%100
102	MP2A	Z	0	0	0	%100
103	MP3A	X	.589	.589	0	%100
104	MP3A	Z	0	0	0	%100
105	MP4A	X	.589	.589	0	%100
106	MP4A	Z	0	0	0	%100
107	MP1C	X	.589	.589	0	%100
108	MP1C	Z	0	0	0	%100
109	MP2C	X	.589	.589	0	%100
110	MP2C	Z	0	0	0	%100
111	MP3C	X	.589	.589	0	%100
112	MP3C	Z	0	0	0	%100
113	MP4C	X	.589	.589	0	%100
114	MP4C	Z	0	0	0	%100
115	MP1B	X	.589	.589	0	%100
116	MP1B	Z	0	0	0	%100
117	MP2B	X	.589	.589	0	%100
118	MP2B	Z	0	0	0	%100
119	MP3B	X	.589	.589	0	%100
120	MP3B	Z	0	0	0	%100
121	MP4B	X	.589	.589	0	%100
122	MP4B	Z	0	0	0	%100
123	RADIOA	X	.599	.599	0	%100
124	RADIOA	Z	0	0	0	%100
125	M115	X	.599	.599	0	%100
126	M115	Z	0	0	0	%100
127	RADIOC	X	.599	.599	0	%100
128	RADIOC	Z	0	0	0	%100
129	M121	X	.599	.599	0	%100
130	M121	Z	0	0	0	%100
131	RADIOB	X	.599	.599	0	%100
132	RADIOB	Z	0	0	0	%100
133	M127A	X	.599	.599	0	%100
134	M127A	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	.357	.357	0	%100
2	FAVE	Z	.206	.206	0	%100
3	M2	X	.357	.357	0	%100
4	M2	Z	.206	.206	0	%100
5	M3	X	.357	.357	0	%100
6	M3	Z	.206	.206	0	%100
7	M4	X	.357	.357	0	%100
8	M4	Z	.206	.206	0	%100
9	M5	X	1.427	1.427	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
124	RADIOA	Z	.299	.299	0	%100
125	M115	X	.519	.519	0	%100
126	M115	Z	.299	.299	0	%100
127	RADIOC	X	.519	.519	0	%100
128	RADIOC	Z	.299	.299	0	%100
129	M121	X	.519	.519	0	%100
130	M121	Z	.299	.299	0	%100
131	RADIOB	X	.519	.519	0	%100
132	RADIOB	Z	.299	.299	0	%100
133	M127A	X	.519	.519	0	%100
134	M127A	Z	.299	.299	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	.618	.618	0	%100
2	FAVE	Z	1.07	1.07	0	%100
3	M2	X	.618	.618	0	%100
4	M2	Z	1.07	1.07	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.618	.618	0	%100
10	M5	Z	1.07	1.07	0	%100
11	M6	X	.618	.618	0	%100
12	M6	Z	1.07	1.07	0	%100
13	M7	X	.611	.611	0	%100
14	M7	Z	1.057	1.057	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.611	.611	0	%100
18	M9	Z	1.057	1.057	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	.035	.035	0	%100
22	M14A	Z	.06	.06	0	%100
23	M18	X	.035	.035	0	%100
24	M18	Z	.06	.06	0	%100
25	M25	X	.465	.465	0	%100
26	M25	Z	.806	.806	0	%100
27	M26	X	.465	.465	0	%100
28	M26	Z	.806	.806	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	.035	.035	0	%100
34	M42	Z	.06	.06	0	%100
35	M50	X	.035	.035	0	%100
36	M50	Z	.06	.06	0	%100
37	M52	X	.339	.339	0	%100
38	M52	Z	.586	.586	0	%100
39	M53	X	.339	.339	0	%100
40	M53	Z	.586	.586	0	%100
41	M54	X	.249	.249	0	%100
42	M54	Z	.431	.431	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
100	M82	Z	.541	.541	0	%100
101	MP2A	X	.295	.295	0	%100
102	MP2A	Z	.51	.51	0	%100
103	MP3A	X	.295	.295	0	%100
104	MP3A	Z	.51	.51	0	%100
105	MP4A	X	.295	.295	0	%100
106	MP4A	Z	.51	.51	0	%100
107	MP1C	X	.295	.295	0	%100
108	MP1C	Z	.51	.51	0	%100
109	MP2C	X	.295	.295	0	%100
110	MP2C	Z	.51	.51	0	%100
111	MP3C	X	.295	.295	0	%100
112	MP3C	Z	.51	.51	0	%100
113	MP4C	X	.295	.295	0	%100
114	MP4C	Z	.51	.51	0	%100
115	MP1B	X	.295	.295	0	%100
116	MP1B	Z	.51	.51	0	%100
117	MP2B	X	.295	.295	0	%100
118	MP2B	Z	.51	.51	0	%100
119	MP3B	X	.295	.295	0	%100
120	MP3B	Z	.51	.51	0	%100
121	MP4B	X	.295	.295	0	%100
122	MP4B	Z	.51	.51	0	%100
123	RADIOA	X	.299	.299	0	%100
124	RADIOA	Z	.519	.519	0	%100
125	M115	X	.299	.299	0	%100
126	M115	Z	.519	.519	0	%100
127	RADIOC	X	.299	.299	0	%100
128	RADIOC	Z	.519	.519	0	%100
129	M121	X	.299	.299	0	%100
130	M121	Z	.519	.519	0	%100
131	RADIOB	X	.299	.299	0	%100
132	RADIOB	Z	.519	.519	0	%100
133	M127A	X	.299	.299	0	%100
134	M127A	Z	.519	.519	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	0	0	0	%100
2	FAVE	Z	1.647	1.647	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.647	1.647	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.412	.412	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	.412	.412	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	.412	.412	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	.412	.412	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	1.628	1.628	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.407	.407	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	.407	.407	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M13	X	0	0	0	%100
20	M13	Z	.023	.023	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	.023	.023	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	.093	.093	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	.31	.31	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	1.241	1.241	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	.31	.31	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	.023	.023	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	.023	.023	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	.093	.093	0	%100
37	M52	X	0	0	0	%100
38	M52	Z	.677	.677	0	%100
39	M53	X	0	0	0	%100
40	M53	Z	.677	.677	0	%100
41	M54	X	0	0	0	%100
42	M54	Z	.663	.663	0	%100
43	M55	X	0	0	0	%100
44	M55	Z	.677	.677	0	%100
45	M56	X	0	0	0	%100
46	M56	Z	.677	.677	0	%100
47	M57	X	0	0	0	%100
48	M57	Z	.724	.724	0	%100
49	M58	X	0	0	0	%100
50	M58	Z	.724	.724	0	%100
51	M61	X	0	0	0	%100
52	M61	Z	.166	.166	0	%100
53	MP1A	X	0	0	0	%100
54	MP1A	Z	.589	.589	0	%100
55	M127	X	0	0	0	%100
56	M127	Z	1.444	1.444	0	%100
57	M128	X	0	0	0	%100
58	M128	Z	0	0	0	%100
59	M129	X	0	0	0	%100
60	M129	Z	.827	.827	0	%100
61	M130	X	0	0	0	%100
62	M130	Z	.827	.827	0	%100
63	M131	X	0	0	0	%100
64	M131	Z	0	0	0	%100
65	M132	X	0	0	0	%100
66	M132	Z	0	0	0	%100
67	M133	X	0	0	0	%100
68	M133	Z	0	0	0	%100
69	M134	X	0	0	0	%100
70	M134	Z	0	0	0	%100
71	M135	X	0	0	0	%100
72	M135	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	.677	.677	0	%100
75	M70	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	M70	Z	.677	.677	0 %100
77	M71	X	0	0	0 %100
78	M71	Z	.166	.166	0 %100
79	M72	X	0	0	0 %100
80	M72	Z	.677	.677	0 %100
81	M73	X	0	0	0 %100
82	M73	Z	.677	.677	0 %100
83	M74	X	0	0	0 %100
84	M74	Z	.428	.428	0 %100
85	M75	X	0	0	0 %100
86	M75	Z	.428	.428	0 %100
87	M76	X	0	0	0 %100
88	M76	Z	.677	.677	0 %100
89	M77	X	0	0	0 %100
90	M77	Z	.677	.677	0 %100
91	M78	X	0	0	0 %100
92	M78	Z	.166	.166	0 %100
93	M79	X	0	0	0 %100
94	M79	Z	.677	.677	0 %100
95	M80	X	0	0	0 %100
96	M80	Z	.677	.677	0 %100
97	M81	X	0	0	0 %100
98	M81	Z	.428	.428	0 %100
99	M82	X	0	0	0 %100
100	M82	Z	.428	.428	0 %100
101	MP2A	X	0	0	0 %100
102	MP2A	Z	.589	.589	0 %100
103	MP3A	X	0	0	0 %100
104	MP3A	Z	.589	.589	0 %100
105	MP4A	X	0	0	0 %100
106	MP4A	Z	.589	.589	0 %100
107	MP1C	X	0	0	0 %100
108	MP1C	Z	.589	.589	0 %100
109	MP2C	X	0	0	0 %100
110	MP2C	Z	.589	.589	0 %100
111	MP3C	X	0	0	0 %100
112	MP3C	Z	.589	.589	0 %100
113	MP4C	X	0	0	0 %100
114	MP4C	Z	.589	.589	0 %100
115	MP1B	X	0	0	0 %100
116	MP1B	Z	.589	.589	0 %100
117	MP2B	X	0	0	0 %100
118	MP2B	Z	.589	.589	0 %100
119	MP3B	X	0	0	0 %100
120	MP3B	Z	.589	.589	0 %100
121	MP4B	X	0	0	0 %100
122	MP4B	Z	.589	.589	0 %100
123	RADIOA	X	0	0	0 %100
124	RADIOA	Z	.599	.599	0 %100
125	M115	X	0	0	0 %100
126	M115	Z	.599	.599	0 %100
127	RADIOC	X	0	0	0 %100
128	RADIOC	Z	.599	.599	0 %100
129	M121	X	0	0	0 %100
130	M121	Z	.599	.599	0 %100
131	RADIOB	X	0	0	0 %100
132	RADIOB	Z	.599	.599	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
133	M127A	X	0	0	0	%100
134	M127A	Z	.599	.599	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-.618	-.618	0	%100
2	FAVE	Z	1.07	1.07	0	%100
3	M2	X	-.618	-.618	0	%100
4	M2	Z	1.07	1.07	0	%100
5	M3	X	-.618	-.618	0	%100
6	M3	Z	1.07	1.07	0	%100
7	M4	X	-.618	-.618	0	%100
8	M4	Z	1.07	1.07	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.611	-.611	0	%100
14	M7	Z	1.057	1.057	0	%100
15	M8	X	-.611	-.611	0	%100
16	M8	Z	1.057	1.057	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M13	X	-.035	-.035	0	%100
20	M13	Z	.06	.06	0	%100
21	M14A	X	0	0	0	%100
22	M14A	Z	0	0	0	%100
23	M18	X	-.035	-.035	0	%100
24	M18	Z	.06	.06	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-.465	-.465	0	%100
28	M26	Z	.806	.806	0	%100
29	M27	X	-.465	-.465	0	%100
30	M27	Z	.806	.806	0	%100
31	M34	X	-.035	-.035	0	%100
32	M34	Z	.06	.06	0	%100
33	M42	X	0	0	0	%100
34	M42	Z	0	0	0	%100
35	M50	X	-.035	-.035	0	%100
36	M50	Z	.06	.06	0	%100
37	M52	X	-.339	-.339	0	%100
38	M52	Z	.586	.586	0	%100
39	M53	X	-.339	-.339	0	%100
40	M53	Z	.586	.586	0	%100
41	M54	X	-.249	-.249	0	%100
42	M54	Z	.431	.431	0	%100
43	M55	X	-.339	-.339	0	%100
44	M55	Z	.586	.586	0	%100
45	M56	X	-.339	-.339	0	%100
46	M56	Z	.586	.586	0	%100
47	M57	X	-.313	-.313	0	%100
48	M57	Z	.541	.541	0	%100
49	M58	X	-.313	-.313	0	%100
50	M58	Z	.541	.541	0	%100
51	M61	X	-.249	-.249	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
109	MP2C	X	-.295	-.295	0	%100
110	MP2C	Z	.51	.51	0	%100
111	MP3C	X	-.295	-.295	0	%100
112	MP3C	Z	.51	.51	0	%100
113	MP4C	X	-.295	-.295	0	%100
114	MP4C	Z	.51	.51	0	%100
115	MP1B	X	-.295	-.295	0	%100
116	MP1B	Z	.51	.51	0	%100
117	MP2B	X	-.295	-.295	0	%100
118	MP2B	Z	.51	.51	0	%100
119	MP3B	X	-.295	-.295	0	%100
120	MP3B	Z	.51	.51	0	%100
121	MP4B	X	-.295	-.295	0	%100
122	MP4B	Z	.51	.51	0	%100
123	RADIOA	X	-.299	-.299	0	%100
124	RADIOA	Z	.519	.519	0	%100
125	M115	X	-.299	-.299	0	%100
126	M115	Z	.519	.519	0	%100
127	RADIOC	X	-.299	-.299	0	%100
128	RADIOC	Z	.519	.519	0	%100
129	M121	X	-.299	-.299	0	%100
130	M121	Z	.519	.519	0	%100
131	RADIOB	X	-.299	-.299	0	%100
132	RADIOB	Z	.519	.519	0	%100
133	M127A	X	-.299	-.299	0	%100
134	M127A	Z	.519	.519	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-.357	-.357	0	%100
2	FAVE	Z	.206	.206	0	%100
3	M2	X	-.357	-.357	0	%100
4	M2	Z	.206	.206	0	%100
5	M3	X	-1.427	-1.427	0	%100
6	M3	Z	.824	.824	0	%100
7	M4	X	-1.427	-1.427	0	%100
8	M4	Z	.824	.824	0	%100
9	M5	X	-.357	-.357	0	%100
10	M5	Z	.206	.206	0	%100
11	M6	X	-.357	-.357	0	%100
12	M6	Z	.206	.206	0	%100
13	M7	X	-.352	-.352	0	%100
14	M7	Z	.204	.204	0	%100
15	M8	X	-1.41	-1.41	0	%100
16	M8	Z	.814	.814	0	%100
17	M9	X	-.352	-.352	0	%100
18	M9	Z	.204	.204	0	%100
19	M13	X	-.081	-.081	0	%100
20	M13	Z	.047	.047	0	%100
21	M14A	X	-.02	-.02	0	%100
22	M14A	Z	.012	.012	0	%100
23	M18	X	-.02	-.02	0	%100
24	M18	Z	.012	.012	0	%100
25	M25	X	-.269	-.269	0	%100
26	M25	Z	.155	.155	0	%100
27	M26	X	-.269	-.269	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M130	X	- .827	- .827	0 %100
62	M130	Z	0	0	0 %100
63	M131	X	- .173	- .173	0 %100
64	M131	Z	0	0	0 %100
65	M132	X	- .173	- .173	0 %100
66	M132	Z	0	0	0 %100
67	M133	X	- .173	- .173	0 %100
68	M133	Z	0	0	0 %100
69	M134	X	- .173	- .173	0 %100
70	M134	Z	0	0	0 %100
71	M135	X	- .173	- .173	0 %100
72	M135	Z	0	0	0 %100
73	M69	X	- .677	- .677	0 %100
74	M69	Z	0	0	0 %100
75	M70	X	- .677	- .677	0 %100
76	M70	Z	0	0	0 %100
77	M71	X	- .498	- .498	0 %100
78	M71	Z	0	0	0 %100
79	M72	X	- .677	- .677	0 %100
80	M72	Z	0	0	0 %100
81	M73	X	- .677	- .677	0 %100
82	M73	Z	0	0	0 %100
83	M74	X	- .625	- .625	0 %100
84	M74	Z	0	0	0 %100
85	M75	X	- .625	- .625	0 %100
86	M75	Z	0	0	0 %100
87	M76	X	- .677	- .677	0 %100
88	M76	Z	0	0	0 %100
89	M77	X	- .677	- .677	0 %100
90	M77	Z	0	0	0 %100
91	M78	X	- .498	- .498	0 %100
92	M78	Z	0	0	0 %100
93	M79	X	- .677	- .677	0 %100
94	M79	Z	0	0	0 %100
95	M80	X	- .677	- .677	0 %100
96	M80	Z	0	0	0 %100
97	M81	X	- .625	- .625	0 %100
98	M81	Z	0	0	0 %100
99	M82	X	- .625	- .625	0 %100
100	M82	Z	0	0	0 %100
101	MP2A	X	- .589	- .589	0 %100
102	MP2A	Z	0	0	0 %100
103	MP3A	X	- .589	- .589	0 %100
104	MP3A	Z	0	0	0 %100
105	MP4A	X	- .589	- .589	0 %100
106	MP4A	Z	0	0	0 %100
107	MP1C	X	- .589	- .589	0 %100
108	MP1C	Z	0	0	0 %100
109	MP2C	X	- .589	- .589	0 %100
110	MP2C	Z	0	0	0 %100
111	MP3C	X	- .589	- .589	0 %100
112	MP3C	Z	0	0	0 %100
113	MP4C	X	- .589	- .589	0 %100
114	MP4C	Z	0	0	0 %100
115	MP1B	X	- .589	- .589	0 %100
116	MP1B	Z	0	0	0 %100
117	MP2B	X	- .589	- .589	0 %100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
118	MP2B	Z	0	0	0	%100
119	MP3B	X	-589	-589	0	%100
120	MP3B	Z	0	0	0	%100
121	MP4B	X	-589	-589	0	%100
122	MP4B	Z	0	0	0	%100
123	RADIOA	X	-599	-599	0	%100
124	RADIOA	Z	0	0	0	%100
125	M115	X	-599	-599	0	%100
126	M115	Z	0	0	0	%100
127	RADIOC	X	-599	-599	0	%100
128	RADIOC	Z	0	0	0	%100
129	M121	X	-599	-599	0	%100
130	M121	Z	0	0	0	%100
131	RADIOB	X	-599	-599	0	%100
132	RADIOB	Z	0	0	0	%100
133	M127A	X	-599	-599	0	%100
134	M127A	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	X	-357	-357	0	%100
2	FAVE	Z	-206	-206	0	%100
3	M2	X	-357	-357	0	%100
4	M2	Z	-206	-206	0	%100
5	M3	X	-357	-357	0	%100
6	M3	Z	-206	-206	0	%100
7	M4	X	-357	-357	0	%100
8	M4	Z	-206	-206	0	%100
9	M5	X	-1.427	-1.427	0	%100
10	M5	Z	-824	-824	0	%100
11	M6	X	-1.427	-1.427	0	%100
12	M6	Z	-824	-824	0	%100
13	M7	X	-352	-352	0	%100
14	M7	Z	-204	-204	0	%100
15	M8	X	-352	-352	0	%100
16	M8	Z	-204	-204	0	%100
17	M9	X	-1.41	-1.41	0	%100
18	M9	Z	-814	-814	0	%100
19	M13	X	-.02	-.02	0	%100
20	M13	Z	-.012	-.012	0	%100
21	M14A	X	-.081	-.081	0	%100
22	M14A	Z	-.047	-.047	0	%100
23	M18	X	-.02	-.02	0	%100
24	M18	Z	-.012	-.012	0	%100
25	M25	X	-1.074	-1.074	0	%100
26	M25	Z	-.62	-.62	0	%100
27	M26	X	-.269	-.269	0	%100
28	M26	Z	-.155	-.155	0	%100
29	M27	X	-.269	-.269	0	%100
30	M27	Z	-.155	-.155	0	%100
31	M34	X	-.02	-.02	0	%100
32	M34	Z	-.012	-.012	0	%100
33	M42	X	-.081	-.081	0	%100
34	M42	Z	-.047	-.047	0	%100
35	M50	X	-.02	-.02	0	%100
36	M50	Z	-.012	-.012	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M7	X	-0.611	-0.611	0	%100
14	M7	Z	-1.057	-1.057	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-0.611	-0.611	0	%100
18	M9	Z	-1.057	-1.057	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	0	0	0	%100
21	M14A	X	-0.035	-0.035	0	%100
22	M14A	Z	-0.06	-0.06	0	%100
23	M18	X	-0.035	-0.035	0	%100
24	M18	Z	-0.06	-0.06	0	%100
25	M25	X	-0.465	-0.465	0	%100
26	M25	Z	-0.806	-0.806	0	%100
27	M26	X	-0.465	-0.465	0	%100
28	M26	Z	-0.806	-0.806	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M34	X	0	0	0	%100
32	M34	Z	0	0	0	%100
33	M42	X	-0.035	-0.035	0	%100
34	M42	Z	-0.06	-0.06	0	%100
35	M50	X	-0.035	-0.035	0	%100
36	M50	Z	-0.06	-0.06	0	%100
37	M52	X	-0.339	-0.339	0	%100
38	M52	Z	-0.586	-0.586	0	%100
39	M53	X	-0.339	-0.339	0	%100
40	M53	Z	-0.586	-0.586	0	%100
41	M54	X	-0.249	-0.249	0	%100
42	M54	Z	-0.431	-0.431	0	%100
43	M55	X	-0.339	-0.339	0	%100
44	M55	Z	-0.586	-0.586	0	%100
45	M56	X	-0.339	-0.339	0	%100
46	M56	Z	-0.586	-0.586	0	%100
47	M57	X	-0.313	-0.313	0	%100
48	M57	Z	-0.541	-0.541	0	%100
49	M58	X	-0.313	-0.313	0	%100
50	M58	Z	-0.541	-0.541	0	%100
51	M61	X	0	0	0	%100
52	M61	Z	0	0	0	%100
53	MP1A	X	-0.295	-0.295	0	%100
54	MP1A	Z	-0.51	-0.51	0	%100
55	M127	X	-0.542	-0.542	0	%100
56	M127	Z	-0.938	-0.938	0	%100
57	M128	X	-0.08	-0.08	0	%100
58	M128	Z	-0.139	-0.139	0	%100
59	M129	X	-0.414	-0.414	0	%100
60	M129	Z	-0.716	-0.716	0	%100
61	M130	X	-0.414	-0.414	0	%100
62	M130	Z	-0.716	-0.716	0	%100
63	M131	X	-0.022	-0.022	0	%100
64	M131	Z	-0.038	-0.038	0	%100
65	M132	X	-0.022	-0.022	0	%100
66	M132	Z	-0.038	-0.038	0	%100
67	M133	X	-0.022	-0.022	0	%100
68	M133	Z	-0.038	-0.038	0	%100
69	M134	X	-0.022	-0.022	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
127	RADIOC	X	-299	-299	0 %100
128	RADIOC	Z	-519	-519	0 %100
129	M121	X	-299	-299	0 %100
130	M121	Z	-519	-519	0 %100
131	RADIOB	X	-299	-299	0 %100
132	RADIOB	Z	-519	-519	0 %100
133	M127A	X	-299	-299	0 %100
134	M127A	Z	-519	-519	0 %100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	Y	-607	-2.149	0 .96
2	FAVE	Y	-2.149	-4.649	.96 1.92
3	FAVE	Y	-4.649	-6.249	1.92 2.88
4	FAVE	Y	-6.249	-4.412	2.88 3.84
5	FAVE	Y	-4.412	-.996	3.84 4.8
6	M6	Y	-2.467	-3.178	0 1.067
7	M6	Y	-3.178	-4.8	1.067 2.133
8	M6	Y	-4.8	-6.006	2.133 3.2
9	M6	Y	-6.006	-3.63	3.2 4.267
10	M6	Y	-3.63	-.152	4.267 5.333
11	M8	Y	-1.045	-6.071	0 1.53
12	M8	Y	-6.071	-5.961	1.53 3.06
13	M8	Y	-5.961	-.836	3.06 4.59
14	M2	Y	-.996	-4.419	.533 1.493
15	M2	Y	-4.419	-6.261	1.493 2.453
16	M2	Y	-6.261	-4.658	2.453 3.413
17	M2	Y	-4.658	-2.152	3.413 4.373
18	M2	Y	-2.152	-.609	4.373 5.333
19	M3	Y	-.151	-3.633	0 1.067
20	M3	Y	-3.633	-6.006	1.067 2.133
21	M3	Y	-6.006	-4.793	2.133 3.2
22	M3	Y	-4.793	-3.175	3.2 4.267
23	M3	Y	-3.175	-2.467	4.267 5.333
24	M9	Y	-.834	-5.952	.51 2.04
25	M9	Y	-5.952	-6.064	2.04 3.57
26	M9	Y	-6.064	-1.049	3.57 5.1
27	M4	Y	-3.838	-3.838	.46 2.08
28	M7	Y	-4.148	-4.148	2.695 4.234
29	M127	Y	-5.305	-5.305	.68 2.689
30	M128	Y	-4.499	-4.499	.943 1.917
31	M5	Y	.058	-.173	4.267 4.8
32	M5	Y	-.173	-.634	4.8 5.333
33	M6	Y	-.703	-.192	0 .533
34	M6	Y	-.192	.064	.533 1.067
35	M7	Y	-.598	-1.928	0 .306
36	M7	Y	-1.928	-2.587	.306 .612
37	M7	Y	-2.587	-1.323	.612 .918
38	M7	Y	-1.323	-.067	.918 1.224
39	M7	Y	-.067	-.067	1.224 1.53
40	M8	Y	-.099	-.099	3.57 3.876
41	M8	Y	-.099	-.936	3.876 4.182
42	M8	Y	-.936	-2.754	4.182 4.488
43	M8	Y	-2.754	-2.409	4.488 4.794
44	M8	Y	-2.409	-.099	4.794 5.1
45	M3	Y	.073	-.219	4.267 4.8



Company :
 Designer :
 Job Number :
 Model Name :

Aug 10, 2023
 11:18 AM
 Checked By: _____

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	FAVE	Z	-0.18	-0.064	0	.96
2	FAVE	Z	-0.064	-0.139	.96	1.92
3	FAVE	Z	-0.139	-0.187	1.92	2.88
4	FAVE	Z	-0.187	-0.132	2.88	3.84
5	FAVE	Z	-0.132	-0.03	3.84	4.8
6	M6	Z	-0.074	-0.095	0	1.067
7	M6	Z	-0.095	-0.144	1.067	2.133
8	M6	Z	-0.144	-0.18	2.133	3.2
9	M6	Z	-0.18	-0.109	3.2	4.267
10	M6	Z	-0.109	-0.005	4.267	5.333
11	M8	Z	-0.031	-0.182	0	1.53
12	M8	Z	-0.182	-0.179	1.53	3.06
13	M8	Z	-0.179	-0.025	3.06	4.59
14	M2	Z	-0.03	-0.133	.533	1.493
15	M2	Z	-0.133	-0.188	1.493	2.453
16	M2	Z	-0.188	-0.14	2.453	3.413
17	M2	Z	-0.14	-0.065	3.413	4.373
18	M2	Z	-0.065	-0.018	4.373	5.333
19	M3	Z	-0.005	-0.109	0	1.067
20	M3	Z	-0.109	-0.18	1.067	2.133
21	M3	Z	-0.18	-0.144	2.133	3.2
22	M3	Z	-0.144	-0.095	3.2	4.267
23	M3	Z	-0.095	-0.074	4.267	5.333
24	M9	Z	-0.025	-0.179	.51	2.04
25	M9	Z	-0.179	-0.182	2.04	3.57
26	M9	Z	-0.182	-0.031	3.57	5.1
27	M4	Z	-0.115	-0.115	.46	2.08
28	M7	Z	-0.124	-0.124	2.695	4.234
29	M127	Z	-0.159	-0.159	.68	2.689
30	M128	Z	-0.135	-0.135	.943	1.917
31	M5	Z	.002	-0.005	4.267	4.8
32	M5	Z	-0.005	-0.019	4.8	5.333
33	M6	Z	-0.021	-0.006	0	.533
34	M6	Z	-0.006	.002	.533	1.067
35	M7	Z	-0.018	-0.058	0	.306
36	M7	Z	-0.058	-0.078	.306	.612
37	M7	Z	-0.078	-0.04	.612	.918
38	M7	Z	-0.04	-0.002	.918	1.224
39	M7	Z	-0.002	-0.002	1.224	1.53
40	M8	Z	-0.003	-0.003	3.57	3.876
41	M8	Z	-0.003	-0.028	3.876	4.182
42	M8	Z	-0.028	-0.083	4.182	4.488
43	M8	Z	-0.083	-0.072	4.488	4.794
44	M8	Z	-0.072	-0.003	4.794	5.1
45	M3	Z	.002	-0.007	4.267	4.8
46	M3	Z	-0.007	-0.024	4.8	5.333
47	M4	Z	-0.005	-0.007	0	1.067
48	M7	Z	-0.002	-0.002	3.57	3.876
49	M7	Z	-0.002	-0.04	3.876	4.182
50	M7	Z	-0.04	-0.078	4.182	4.488
51	M7	Z	-0.078	-0.058	4.488	4.794
52	M7	Z	-0.058	-0.018	4.794	5.1
53	M9	Z	-0.003	-0.072	0	.306
54	M9	Z	-0.072	-0.083	.306	.612
55	M9	Z	-0.083	-0.028	.612	.918
56	M9	Z	-0.028	-0.003	.918	1.224
57	M9	Z	-0.003	-0.003	1.224	1.53

Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	L...	LC	Shear C...	Loc.....	phi*P...	phi*P...	phi*M...	phi*M.....	Eqn				
15	M27	L3X3X4	.587	3...	9	.310	.313	z	9	7731....	46656	1.688	2.977	...	H2-1
16	M34	PL3/8x8	.101	0	3	.105	.667	y	5	72912...	97200	.759	15.142	...	H1-1b
17	M42	PL3/8x8	.095	0	11	.098	.667	y	1	72912...	97200	.759	14.752	...	H1-1b
18	M50	PL3/8x8	.104	0	7	.101	.667	y	9	72912...	97200	.759	14.851	...	H1-1b
19	M52	L1.75x1....	.159	0	12	.029	1.5...	z	1	14182...	26325	.513	1.177	...	H2-1
20	M53	L1.75x1....	.156	0	1	.033	1.5...	y	12	14182...	26325	.513	1.177	...	H2-1
21	M54	L1.75x1....	.121	2...	12	.049	0	z	9	15136...	26325	.513	1.177	...	H2-1
22	M55	L1.75x1....	.149	0	1	.022	3.0...	z	8	14182...	26325	.513	1.148	...	H2-1
23	M56	L1.75x1....	.139	3...	11	.023	0	z	6	14182...	26325	.513	1.172	...	H2-1
24	M57	L1.75x1....	.533	3...	6	.011	0	y	11	7107....	26325	.513	1.086	...	H2-1
25	M58	L1.75x1....	.544	2...	8	.015	0	z	4	7107....	26325	.513	1.058	...	H2-1
26	M61	L1.75x1....	.086	2...	8	.038	0	z	5	15136...	26325	.513	1.177	...	H2-1
27	MP1A	PIPE_2.0	.090	1...	7	.137	1.7...		8	18857...	32130	1.872	1.872	...	H1-1b
28	M127	C5X6.7	.180	0	11	.076	.662	z	12	48979...	63828	1.604	9.585	...	H1-1b
29	M128	L2x2x4	.152	1...	6	.244	0	y	4	25395...	30585...	.691	1.577	...	H2-1
30	M129	L2x2x4	.105	2...	1	.010	1.9...	y	5	8872....	30585...	.691	1.577	...	H2-1
31	M130	L2x2x4	.084	2...	4	.009	3.0...	y	3	8872....	30585...	.691	1.531	...	H2-1
32	M131	SR_0.75	.006	.6...	16	.011	1.3...		7	9756....	14313...	.179	.179	...	H1-1b
33	M132	SR_0.75	.009	.6...	16	.008	0		6	9756....	14313...	.179	.179	...	H1-1b
34	M133	SR_0.75	.007	.6...	16	.008	0		2	9756....	14313...	.179	.179	...	H1-1b
35	M134	SR_0.75	.006	.6...	16	.016	1.3...		1	9756....	14313...	.179	.179	...	H1-1b
36	M135	SR_0.75	.006	.6...	16	.018	0		1	9756....	14313...	.179	.179	...	H1-1b
37	M69	L1.75x1....	.174	0	8	.034	3.0...	z	9	14182...	26325	.513	1.177	...	H2-1
38	M70	L1.75x1....	.166	0	9	.037	1.5...	y	8	14182...	26325	.513	1.177	...	H2-1
39	M71	L1.75x1....	.086	2...	8	.038	0	z	5	15136...	26325	.513	1.177	...	H2-1
40	M72	L1.75x1....	.157	0	9	.024	3.0...	z	4	14182...	26325	.513	1.16	...	H2-1
41	M73	L1.75x1....	.144	3...	7	.022	0	z	8	14182...	26325	.513	1.168	...	H2-1
42	M74	L1.75x1....	.530	3...	2	.012	0	y	7	7107....	26325	.513	1.076	...	H2-1
43	M75	L1.75x1....	.549	3...	4	.013	0	z	12	7107....	26325	.513	1.098	...	H2-1
44	M76	L1.75x1....	.181	0	4	.030	1.5...	z	5	14182...	26325	.513	1.177	...	H2-1
45	M77	L1.75x1....	.152	0	5	.034	1.5...	y	4	14182...	26325	.513	1.177	...	H2-1
46	M78	L1.75x1....	.121	2...	4	.049	0	z	1	15136...	26325	.513	1.177	...	H2-1
47	M79	L1.75x1....	.154	0	5	.023	3.0...	z	6	14182...	26325	.513	1.153	...	H2-1
48	M80	L1.75x1....	.141	0	4	.024	0	z	4	14182...	26325	.513	1.177	...	H2-1
49	M81	L1.75x1....	.518	3...	10	.013	0	y	3	7107....	26325	.513	1.096	...	H2-1
50	M82	L1.75x1....	.542	2...	12	.015	0	z	8	7107....	26325	.513	1.058	...	H2-1
51	MP2A	PIPE_2.0	.269	1...	7	.144	4.7...		1	18857...	32130	1.872	1.872	...	H1-1b
52	MP3A	PIPE_2.0	.049	4...	3	.118	4.7...		7	18857...	32130	1.872	1.872	...	H1-1b
53	MP4A	PIPE_2.0	.123	1...	1	.133	4.7...		6	18857...	32130	1.872	1.872	...	H1-1b
54	MP1C	PIPE_2.0	.101	1...	3	.150	1.7...		4	18857...	32130	1.872	1.872	...	H1-1b
55	MP2C	PIPE_2.0	.258	1...	10	.125	4.7...		8	18857...	32130	1.872	1.872	...	H1-1b
56	MP3C	PIPE_2.0	.050	4...	11	.117	4.7...		9	18857...	32130	1.872	1.872	...	H1-1b
57	MP4C	PIPE_2.0	.126	1...	9	.128	4.7...		8	18857...	32130	1.872	1.872	...	H1-1b
58	MP1B	PIPE_2.0	.092	1...	5	.141	1.7...		6	18857...	32130	1.872	1.872	...	H1-1b
59	MP2B	PIPE_2.0	.263	1...	5	.132	4.7...		5	18857...	32130	1.872	1.872	...	H1-1b
60	MP3B	PIPE_2.0	.052	4...	8	.112	4.7...		5	18857...	32130	1.872	1.872	...	H1-1b
61	MP4B	PIPE_2.0	.133	1...	5	.140	4.7...		4	18857...	32130	1.872	1.872	...	H1-1b

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N8	max	3.936	12	704.23	7	1199.35	7	0	75	0	75	0	75
2		min	-3.936	2	-5416.3	13	-1174.66	1	0	1	0	1	0	1
3	N72	max	2014.38	11	6882.602	3	792.419	1	0	75	0	75	0	75
4		min	-2020.87	5	-3606.675	9	-810.296	7	0	1	0	1	0	1
5	N73	max	2567.396	9	6796.769	11	1272.238	1	0	75	0	75	0	75



Company :
 Designer :
 Job Number :
 Model Name :

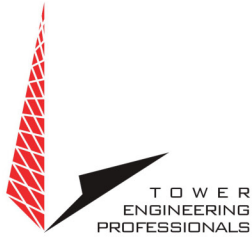
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Envelope Joint Reactions (Continued)

6	Joint	min	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
7	N74	max	858.554	3	799.847	3	507.833	9	0	75	0	75	0	75
8		min	-879.593	9	-5200.04	21	-495.686	3	0	1	0	1	0	1
9	N75A	max	733.642	1	6770.995	11	2206.03	2	0	75	0	75	0	75
10		min	-719.714	7	-3659.98	5	-2211.893	8	0	1	0	1	0	1
11	N76A	max	1779.192	10	6774.133	7	1694.063	11	0	75	0	75	0	75
12		min	-1766.872	4	-3858.246	1	-1693.318	5	0	1	0	1	0	1
13	N77A	max	902.865	5	768.632	11	521.269	5	0	75	0	75	0	75
14		min	-912.905	11	-5261.51	17	-527.066	11	0	1	0	1	0	1
15	N78A	max	1716.51	10	6821.211	7	1829.33	3	0	75	0	75	0	75
16		min	-1709.39	4	-3751.929	1	-1775.48	9	0	1	0	1	0	1
17	N79A	max	594.758	7	6834.701	3	2197.794	12	0	75	0	75	0	75
18		min	-587.871	1	-3718.143	9	-2219.962	6	0	1	0	1	0	1
19	Totals:	max	5556.031	10	6389.174	21	5619.253	1						
20		min	-5556.032	4	2218.078	66	-5619.252	7						

EXHIBIT 5





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Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

302511

Site Name:

WSPT - South

Location:

Westport, Connecticut

Tenants:

AT&T Mobility, T-Mobile, Dish Wireless, & Verizon Wireless

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

August 31st, 2023

65218 P-405308

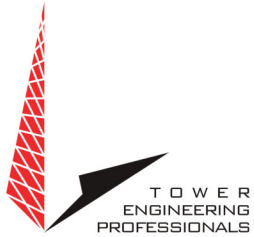
Prepared By:

Adam Carlson MS, CBRE, CPI
Program Manager RF Design & Service
Tower Engineering Professionals

Approved By:



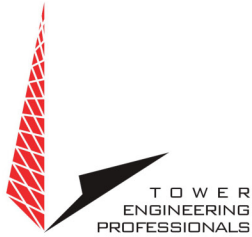
09/07/2023



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Contents

DISCLAIMER NOTICE	3
INTRODUCTION	4
SITE AND FACILITY CONSIDERATIONS.....	4
POWER DENSITY CALCULATIONS.....	4
SITE MITIGATION & CONTROL	5
COMPLIANCE DETERMINATION.....	5
APPENDIX 1 SITE PHOTOS.....	6
APPENDIX 2.1 ANTENNA INVENTORY	7
APPENDIX 2.2 ANTENNA INVENTORY	8
APPENDIX 3.1 MPE LIMIT STUDY.....	9
APPENDIX 3.2 MPE LIMIT STUDY.....	10
APPENDIX 4 INFORMATION PERTAINING TO MPE STUDIES.....	11
APPENDIX 5 MPE STANDARDS METHODOLOGY.....	13



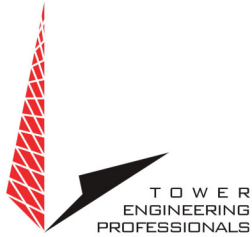
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Disclaimer Notice

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Non-Ionizing Electromagnetic Radiation (NIER) Study

302511 WSPT - South
Westport, Connecticut

INTRODUCTION

Tower Engineering Professionals RF Design & Services Division (TEP-RF) of Raleigh, North Carolina, has been retained by American Tower, Inc. (ATC), of Woburn, Massachusetts to evaluate the RF emissions compared to the Maximum Permissible Exposure (MPE) limit for facilities at this location. This evaluation uses compliance standards as outlined in Federal Communications Commission (FCC) document OET-65.

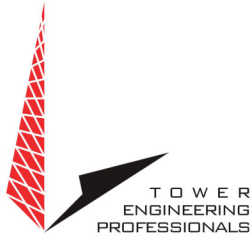
SITE AND FACILITY CONSIDERATIONS

Site 302511 WSPT - South is located at 20 Post Office Ln., in Westport, Connecticut at coordinates 41.123467, -73.313083. The support structure is a 150' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), T-Mobile (T-Mobile), Dish Wireless (Dish), & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

Power densities were calculated based on FCC MPE limits for both General Population/Uncontrolled and Occupational/Controlled environments.

For the purpose of this study, a radius of 140' from the base of the tower with a height of 6' above ground level was used, beyond 140' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.



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All data used in this study was collected from one or more of the following sources:

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at 302511 WSPT - South.RF NIER Study 8/15/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the base of the tower and all compound access points to alert workers of potential exposure to RF fields while working on or near the antennae.

TEP recommends that all personnel working on this tower be trained in RF safety procedures and carry a personal RF monitor at all times.

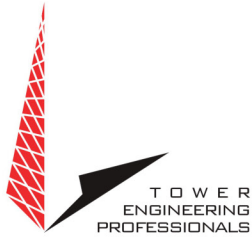
COMPLIANCE DETERMINATION

This installation **IS** in compliance with current FCC MPE limits as described in FCC OET-65.

APPENDIX 1 Site Photos



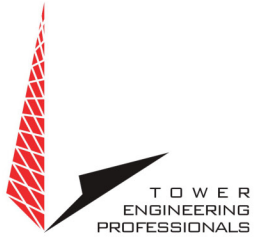
Aerial View of Site



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Appendix 2.1 Antenna Inventory

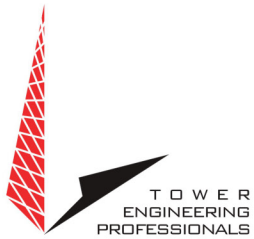
302511 WSPT - South							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	AT&T	Ericsson	Air 6449	3700/3800/3900	030	71639	133
2	AT&T	Ericsson	Air 6449	3700/3800/3900	150	71639	133
3	AT&T	Ericsson	Air 6449	3700/3800/3900	270	71639	133
4	AT&T	CCI	DMP65R-BU6EA	700/800/1800/2300	139	56179	131
5	AT&T	CCI	DMP65R-BU6EA	700/800/1800/2300	261	56179	131
6	AT&T	CCI	DMP65R-BU6EA	700/800/1800/2300	270	56179	131
7	AT&T	CCI	OPA65R-BU6D	700/800	030	32890	131
8	AT&T	CCI	OPA65R-BU6D	700/800	150	32890	131
9	AT&T	CCI	OPA65R-BU6D	700/800	270	32890	131
10	AT&T	Ericsson	Air 6419	3700/3800/3900	030	10163	129
11	AT&T	Ericsson	Air 6419	3700/3800/3900	150	10163	129
12	AT&T	Ericsson	Air 6419	3700/3800/3900	270	10163	129
13	T-Mobile	Ericsson	Air 6419	2500/2600	070	10163	120
14	T-Mobile	Ericsson	Air 6419	2500/2600	270	10163	120
15	T-Mobile	Ericsson	Air 6419	2500/2600	350	10163	120
16	T-Mobile	Commscope	VV-65A-R1	1900/2100	070	25027	120
17	T-Mobile	Commscope	VV-65A-R1	1900/2100	270	25027	120
18	T-Mobile	Commscope	VV-65A-R1	1900/2100	350	25027	120
19	T-Mobile	RFS	APXVAALL24	600/700	070	11065	120
20	T-Mobile	RFS	APXVAALL24	600/700	270	11065	120
21	T-Mobile	RFS	APXVAALL24	600/700	350	11065	120



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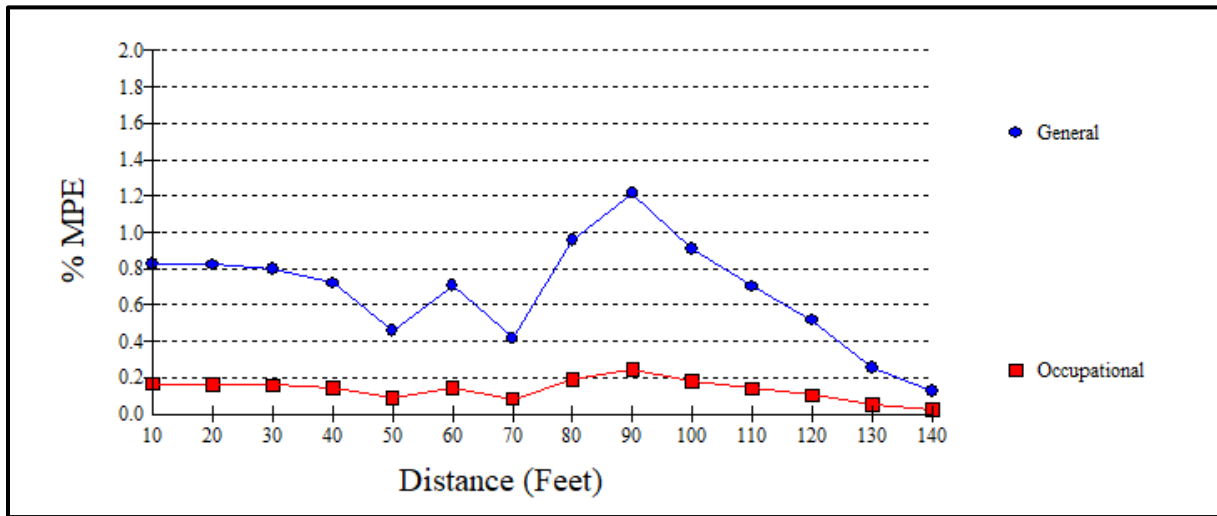
Appendix 2.2 Antenna Inventory

302511 WSPT- South							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
22	Verizon	Antel	BXA-70080	800	030	15311	100
23	Verizon	Antel	BXA-70080	800	150	15311	100
24	Verizon	Antel	BXA-70080	800	270	15322	100
25	Verizon	Rymosa	MGD3-800TX	3700/3800/3900	030	10542	100
26	Verizon	Rymosa	MGD3-800TX	3700/3800/3900	150	10542	100
27	Verizon	Rymosa	MGD3-800TX	3700/3800/3900	270	10542	100
28	Verizon	Quintel	QS6656-5D	700/800/1900/2100	030	29903	100
29	Verizon	Quintel	QS6656-5D	700/800/1900/2100	150	29903	100
30	Verizon	Quintel	QS6656-5D	700/800/1900/2100	270	29903	100
31	Verizon	Quintel	QS6656-5D	700/800/1900/2100	030	29903	100
32	Verizon	Quintel	QS6656-5D	700/800/1900/2100	150	29903	100
33	Verizon	Quintel	QS6656-5D	700/800/1900/2100	270	29903	100
34	Verizon	Samsung	MT6407	3700/3800/3900	030	18286	100
35	Verizon	Samsung	MT6407	3700/3800/3900	150	18286	100
36	Verizon	Samsung	MT6407	3700/3800/3900	270	18286	100
37	Dish	Commscope	FFVV-65B-R2	600/1900/2000/2100	000	40645	64
38	Dish	Commscope	FFVV-65B-R2	600/1900/2000/2100	120	40645	64
39	Dish	Commscope	FFVV-65B-R2	600/1900/2000/2100	240	40645	64



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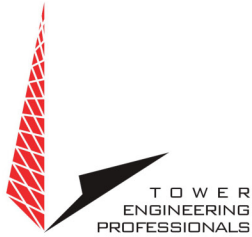
Appendix 3.1 MPE Limit Study



Maximum Power Density (@90'):	0.0074 mW/cm ²
General Population MPE (@90'):	1.2166%
Occupational MPE (@90'):	0.2433%

Appendix 3.2 MPE Limit Study





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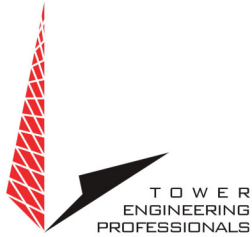
Appendix 4 Information Pertaining to MPE Studies

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.

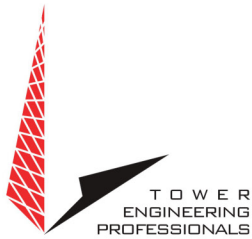


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MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm^2), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). The far-field of a transmitting antenna is where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

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.

General population/uncontrolled exposure limits apply to situations in which the general public 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 public 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. Additional details can be found in FCC OET 65.

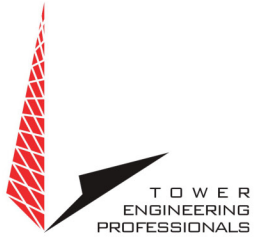


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Appendix 5 MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure, and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.



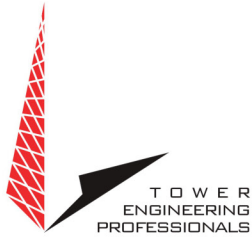
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The FCC's limits for exposure at different frequencies are shown in the following Tables.

Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3 - 3.0	614	1.63	100*	6
3.0 - 30	1842/f	4.89/f	900/F ²	6
30 - 300	61.4	0.163	1.0	6
300 - 1500	--	--	f/300	6
1500 - 100,000	--	--	5	6

f = frequency

* = Plane-wave equivalent power density



Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

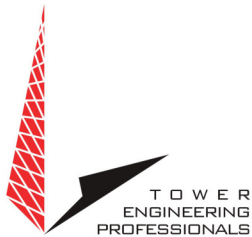
Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F ²	30
30 -300	27.5	0.073	0.2	30
300 -1500	--	--	f/1500	30
1500 -100,000	--	--	1.0	30

f = frequency

* = Plane-wave equivalent power density

General population/uncontrolled exposures apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.



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The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex, and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still has a curvature, but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65.

Cylindrical Model (Near Field Predictions)

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

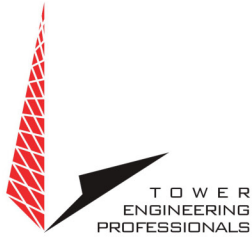
Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



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For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

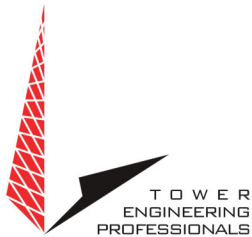
θ_{BW} = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.



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Spherical Model (Far Field Predictions)

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered, and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

EXHIBIT 6



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DOCKET NO. 166 - An application of Springwich Cellular Limited Partnership for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility approximately 250 feet west of Maple Lane, approximately 850 feet west of Maple Lane, or approximately 750 feet west of New Creek Road in the Town of Westport, Connecticut.

Connecticut Siting Council

August 29, 1995

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower and equipment building at the proposed first alternate site in Westport, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Springwich Cellular Limited Partnership (Springwich), for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed first alternate site, located approximately 850 feet west of Maple Lane, Westport, Connecticut. We find the effects on scenic resources and adjacent land uses of the second alternate site to be significant and the prime site does not

provide full coverage to Interstate 95, and therefore deny certification of these sites.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The self-supporting monopole tower shall be no taller than necessary to provide the proposed communications service and the tower shall not exceed a total height of 130 feet above ground level (AGL).
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include detailed plans for the tower location and tower foundation; the placement of all antennas to be attached to this tower; plans for the equipment building and security fence; plans for the access road and utility line installation from Post Office Lane; plans for site clearing and tree trimming; plans for water drainage and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and demarcation of wetlands with conditions that the building and tower shall be 65 feet or more from the wetland, and all grading and other disturbances shall be 25 feet or more from the wetland. No setback restrictions shall apply to the existing access road.
3. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapplication for any continued or new use shall be made to the Council before any such use is made.

7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

8. The Certificate Holder shall notify the Council upon completion of construction and provide the final cost to construct the facility.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Connecticut Post, The Hour, and the Westport News.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

APPLICANT

Springwich Cellular Limited Partnership

ITS REPRESENTATIVE

Peter J. Tyrrell, Esq.
Springwich Cellular Limited Partnership
227 Church Street
New Haven, CT 06510

PARTY

Town of Westport

ITS REPRESENTATIVE

Joseph A. Arcudi
First Selectman
Town of Westport, Town Hall
110 Myrtle Avenue
Westport, CT 06880

INTERVENORS

Bell Atlantic NYNEX Mobile, Inc.

ITS REPRESENTATIVES

Kenneth C. Baldwin, Esq.
Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597

Jay Sherwood

Richard J. Diviney, Esq.
Sherwood, Garlick, Cowell, Diviney & Atwood, P.C.

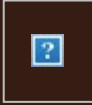
Greens Farms Association

P.O. Box 390
Westport, CT 06881-0390
Robert P. Scholl
Attorney At Law
31 Imperial Avenue
Westport, CT 06880

EXHIBIT 7



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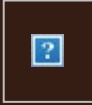
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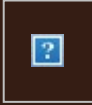
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