STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

December 14, 2021

John Coleman
Project Manager
Centerline Communications, LLC
750 W. Center Street, Suite 301
West Bridgewater, MA 02379
jcoleman@clinellc.com

RE: **EM-VER-064-210929 –** Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 305 West Service Road, Hartford, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) is in receipt of your correspondence of December 1, 2021 submitted in response to the Council's November 9, 2021 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

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

Thank you for your attention and cooperation.

Sincerely,

Melanie Bachman
Executive Director

MAB/CW/laf

From: John Coleman <jcoleman@clinellc.com>
Sent: Wednesday, December 1, 2021 7:06 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Sharon Bateman <sbateman@clinellc.com>
Subject: EM-VER-0-210929 / VZW Exempt Modification filing / WEST SERVICE ROAD (302466 / 13668983) / HARTFORD NORTH CT / 467518 / Corrections Filing

CDC – DL Siting Council,

Please find attached the electronic copy in response to the Incomplete Memo with the original filing for Verizon Wireless' Exempt Modification at its 305 West Service Rd, Hartford, CT monopole tower facility Hartford North CT in Hartford.

Attached

- EM-VER-064-210929
- Corrections filing with requested documents

Should you need any further information concerning this request, please reach out to me at any time. I appreciate your consideration.

John Coleman

John Coleman | Project Manager
750 W Center St, Suite 301 | West Bridgewater, MA 02379
Mobile: 240.615.7389
jcoleman@clinellc.com | www.centerlinecommunications.com

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

November 30, 2021

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

RE: EM-VER-064-210929 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 305 West Service Road, Hartford, CT.

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated November 9, 2021 for the afore mentioned site, please see the following attachments as outlined below per Councils request:

1. Original Facility Approval obtained from the City of Hartford.

2. The Original Filing sent to the CSC on 9/29/2021 – Notice of Exempt Modification // Site: HARTFORD NORTH CT (ATC: 302466) Cellco Partnership d/b/a/ Verizon Wireless.

This list completes the items listed in the afore mentioned Letter of Incompleteness. I appreciate your time and consideration.

Sincerely,
John Coleman

_____

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

From:	Paul Ashworth
To:	Tanner, Jim; Berschet, Paige; John Coleman
Subject:	RE: 302466 / WEST SERVICE ROAD / 305 W. SERVICE ROAD, HARTFORD, CT / VERIZON APPLICATION FOR CSC FILING REQUIREMENTS
Date:	Wednesday, December 1, 2021 3:04:40 PM
Attachments:	305WestService_OriginalTowerCO_2000.pdf 305WService_TowerConstructionPlans_1998.pdf

Hello,

These are the only approval documents I could find for the cell tower at 305 West Service. Please find attached: a certificate of occupancy for the cell tower from the year 2000; and, stamped constructions plans for the tower dated 1998.

I hope that helps,

Paul Ashworth
Senior Planner
City of Hartford - Department of Development Services
Planning & Zoning Division
he/him
260 Constitution Plaza, 1st Floor
Desk: 860-757-9055

Follow us! **@DDSHartford**

Please be advised that unless it is expressly stated, this correspondence does not constitute a zoning permit, certificate of zoning compliance, certification of a legal nonconforming use, or other approval within the Division's jurisdiction. If a permit or approval is desired, an application, application fee, and all required supporting documentation must be submitted to the Zoning Administrator in accordance with the Hartford Zoning Regulations. Please visit https://link.edgepilot.com/s/92c3d074/OxhqCC-pXkecE3EWacjRKw?u=http://www.hartfordct.gov/dds *and click on "Our Services" to begin the application process.*

Make an appointment online: https://link.edgepilot.com/s/a34a8cfb/ZhnP5xaNcE_zujW8oVzDOQ?u=https://developmentservices.setmore.com/

From: Tanner, Jim
Sent: Tuesday, November 30, 2021 4:16 PM
To: Paul Ashworth <Paul.Ashworth@hartford.gov>; Berschet, Paige <Paige.Berschet@hartford.gov>
Subject: FW: 302466 / WEST SERVICE ROAD / 305 W. SERVICE ROAD, HARTFORD, CT / VERIZON APPLICATION FOR CSC FILING REQUIREMENTS

From: John Coleman <jcoleman@clinellc.com>
Sent: Tuesday, November 30, 2021 2:24 PM
To: Tanner, Jim <James.Tanner@hartford.gov>
Subject: 302466 / WEST SERVICE ROAD / 305 W. SERVICE ROAD, HARTFORD, CT / VERIZON

APPLICATION FOR CSC FILING REQUIREMENTS

Mr. Tanner,

Centerline Communications working on behalf of Verizon Wireless will be filing with the CSC to obtain their approval. I have accessed the CSC website and the original tower approval filing for this site for is not available. A copy of the package to be submitted has already been received by your office. I have attached our drawings as reference to the location of the tower and information on what we will be doing there once we have obtained CSC approval and associated permits.

Per CSC requirements for filing I need to either obtain a copy of the original tower approval from your department or obtain a reply to this e-mail that the City of Hartford no longer has a copy of this approval.

I would greatly appreciate a copy of the original approval if you have one or a response to this e-mail so that we can submit this correction. If you have any questions, please feel free to reach out to me at any time.

Thank you and have a nice day.

John

John Coleman | Project Manager
750 W Center St, Suite 301 | West Bridgewater, MA 02379
Mobile: 240.615.7389
jcoleman@clinellc.com |
https://link.edgepilot.com/s/454da977/ssWeevNIC0O6oE2SB_I-gw?u=http://www.centerlinecommunications.com/

BUREAU OF LICENSES AND PERMITS
CITY OF HARTFORD

№ 13070

CERTIFICATE OF OCCUPANCY

Zone I-2 Dated June 16, 19xx 2000

THIS IS TO CERTIFY THAT building at 305 West Service Road

as constructed under Permit No. B 19995170 HC 12/15/99 conforms substantially to the requirements of the Building Code and the Zone Ordinance of the City of Hartford and is hereby approved for occupancy as indicated below.

Approved for occupancy Telecommunication Tower

Use Group Business

Joseph Haines ajb Building Supervisor

Notice: — If this certificate is lost or destroyed, a duplicate should be immediately obtained from the Department of Licenses and Inspections. Any change or extension of the use herein approved requires a new certificate of occupancy.
Copies of this certificate may be obtained at the Department of Licenses and Inspections at a charge of seventy-five cents each.

Receipt No. 0000011715 100.00 Check 06 16 00

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.

CT-0767 HARTFORD NORTH
305 WEST SERVICE ROAD
HARTFORD, CONNECTICUT

LEGEND

EXISTING		PROPOSED
	FENCE	
(TYPE) STORM SEWER	STORM SEWER	ST
(TYPE) SANITARY SEWER	SANITARY SEWER	S
(TYPE) WATER LINE	WATER LINE	W
(TYPE) GAS LINE G	GAS LINE	G
UNDERGROUND ELECTRIC E	UNDERGROUND ELECTRIC	E
UNDERGROUND TELEPHONE T	UNDERGROUND TELEPHONE	T
OVERHEAD WIRES	OVERHEAD TELEPHONE	T
OVERHEAD WIRES	OVERHEAD ELECTRIC	E
250	5' OR 10' CONTOUR LINE	250
202	1' OR 2' CONTOUR LINE	202
120.5 OR 120.5	SPOT ELEVATION	120.5 OR 120.5
	DITCH OR SWALE	
	STREAM OR RIVER	
	LAKE OR POND	
	PRIMARY PROPERTY OR R.O.W.	
	PROPERTY LINE	
	EASEMENT	
	CATCH BASIN	
	MANHOLE	
	HYDRANT	
	WATER VALVE	
	UTILITY POLE	
	LIGHT POLE, LAMP POST	
	SIGN	
	TELEPHONE PEDESTAL	
	IRON ROD, PIN, OR PIPE	
	CONCRETE MONUMENT	
	CURB	
	ASPHALT PAVEMENT	
	TEST PIT	
BORING #	SOIL BORING	
	BUILDING	
	TREES, SHRUBS, BUSHES	
	MATCH LINE	
	SILT FENCE	

001 / C1 — DETAIL IDENTIFICATION; SHEET NO. WHERE DETAIL IS LOCATED OR THE DWG. IT IS CALLED OUT.

SURVEY LEGEND

SYM.	DESCRIPTION	SYM.	DESCRIPTION
•	PROPERTY CORNER		CONTOUR
●	IP/DH TO SET		INDEX CONTOUR
■	MONUMENT TO SET		PROPERTY LINE
⊕	BENCH MARK	NTS	NOT TO SCALE
×313	SPOT ELEV		
	TREELINE		
	WETLANDS		

PROJECT SUMMARY

APPLICANT/LESSEE:
NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
ROCKY HILL, CT 06067
CONTACT: JIM MCWILLIAMS
(860) 513-5400

PROPERTY OWNER(S):
JIM RUSSO (860) 246-4724
305 WEST SERVICE ROAD ASSOCIATES, LLC
305 WEST SERVICE ROAD
HARTFORD, CT

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE CONSTRUCTION, INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT SHELTER FOR AN UNMANNED WIRELESS COMMUNICATIONS SERVICES FACILITY. THIS SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS FOR A REGIONAL WIRELESS NETWORK.

ELECTRICAL AND TELEPHONE UTILITIES SHALL BE INSTALLED TO SERVICE THE SITE. NO WATER OR SEWER SERVICES FOR THE FACILITY ARE REQUIRED.

THE SITE WILL BE ENCLOSED WITHIN A 6' (SIX) HIGH CHAIN LINK FENCE.

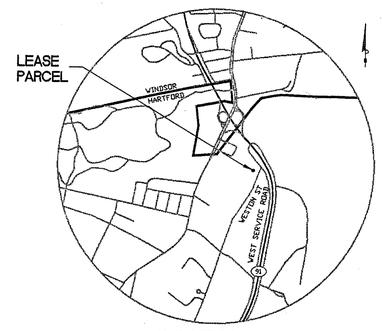
ELECTRIC UTILITY: NORTHEAST UTILITIES
"CALL BEFORE YOU DIG" 800-922-4455
CL&P CONTACT PERSON – DANIEL WING (860) 280-2351

TELEPHONE UTILITY: SOUTHERN NEW ENGLAND TELEPHONE (SNET)

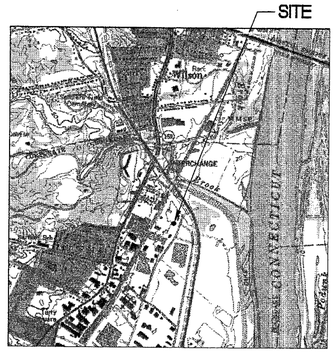
LEASE PARCEL INFORMATION	
ADDRESS	305 WEST SERVICE ROAD HARTFORD, CT
CURRENT OWNER	305 WEST SERVICE ROAD ASSOCIATES, LLC.
DEED	VOL 3960/282
ASSESSORS ID	MAP 644, BLOCK 6, LOT 7
FLOOD ZONE	ZONE X
ZONE	I-2
AREA OF LEASE PARCEL	2499.98 SQ FT , 0.05739 ACRES +/-

ZONING REQUIREMENTS:

FRONT YARD SETBACK:	NA
SIDE YARD SETBACK:	NA
REAR YARD SETBACK:	NA
MINIMUM LOT FRONTAGE:	NA
MAXIMUM LOT COVERAGE %:	NA
MINIMUM LOT AREA:	NA
LEASE/DEVELOPMENT AREA:	NA



LOCATION MAP
SCALE
2000 0 2000
1" = 2000 FT



HARTFORD NORTH QUADRANGLE
SCALE
2000 0 2000
1" = 2000 FT

Drawing Index

DRAWING	TITLE
T1	TITLE SHEET & INDEX
S1	EXISTING CONDITIONS
C1	COMPREHENSIVE SITE PLAN
C2	SITE PLAN
C3	SITE DETAILS
C4	GENERAL NOTES & EROSION CONTROL NARRATIVE
E-1	ELECTRICAL SITE/GROUNDING PLAN
E-2	ELECTRICAL DETAILS & NOTES
E-3	ELECTRICAL DETAILS & NOTES
E-4	ELECTRICAL DETAILS & NOTES
ES-1	ELECTRICAL SPECIFICATIONS

SIGNATURE BLOCK FOR PLANNING BOARD CHAIRMAN:
SITE PLAN #:_____
DATE APPROVED:_____

PLANNING AND ZONING COMMISSION CHAIRMAN:_____
DATE:_____

Gesick & Associates P.C.
SURVEYORS & ENGINEERS
19 Cedar Island Ave.
Clinton, CT 06413
(860) 669-7799
FAX (860) 669-5833
e-mail Gesick@aol.com

DATE: 08/03/98 DRAWN BY: RJG
SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL

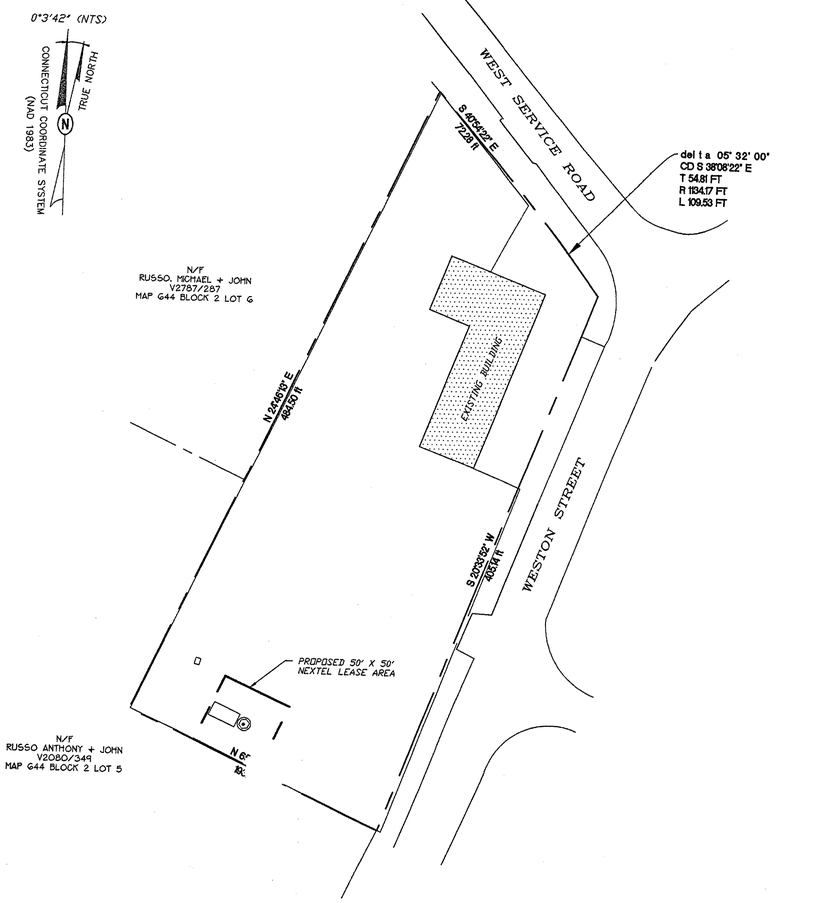
NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
ROCKY HILL, CONNECTICUT 06067
(860) 513-5400 FAX (860) 513 5444

NEXTEL Site:
CT-0767 HARTFORD NORTH
305 West Service Road
Hartford, Connecticut

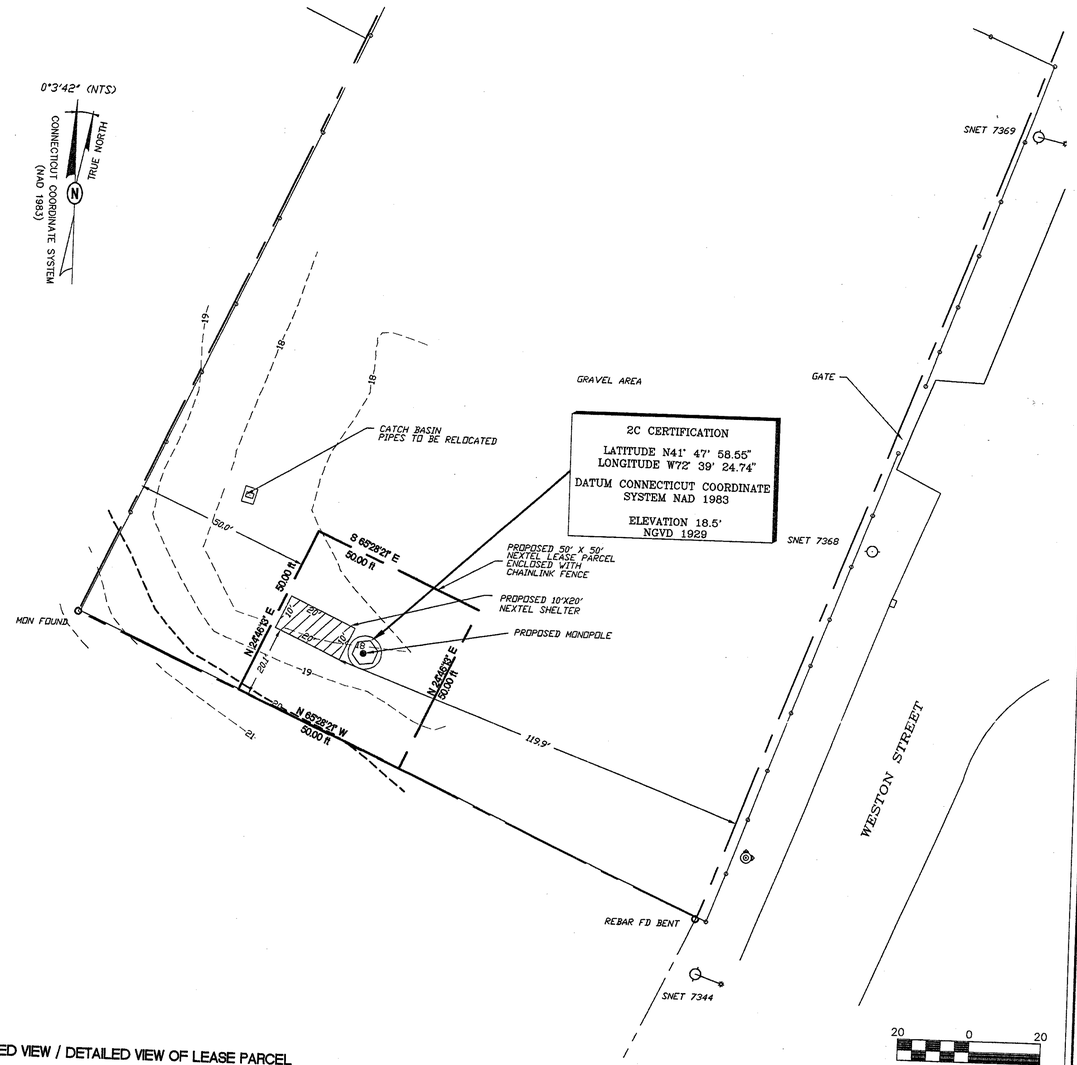
G&A PROJ # 98-082

Sheet title:
Title Sheet & Index

DRAWING NUMBER: T-1



OVERALL VIEW OF LEASE PARCEL LOCATION



ENLARGED VIEW / DETAILED VIEW OF LEASE PARCEL

LEASE PARCEL INFORMATION	
ADDRESS	305 WEST SERVICE ROAD HARTFORD, CT
CURRENT OWNER	305 WEST SERVICE ROAD ASSOCIATES, LLC.
DEED	VOL 3960/282
ASSESSORS ID	MAP 644, BLOCK 6, LOT 7
FLOOD ZONE	ZONE X
ZONE	I-2
AREA OF LEASE PARCEL	2499.98 SQ FT , 0.05739 ACRES +/-

LEGEND

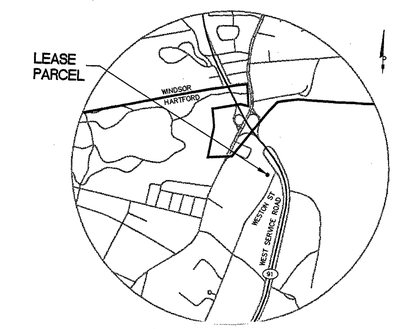
SYM.	DESCRIPTION	SYM.	DESCRIPTION
•	PROPERTY CORNER		CONTOUR
●	IP/DH TO SET		INDEX CONTOUR
■	MONUMENT TO SET		PROPERTY LINE
⊕	BENCH MARK	NTS	NOT TO SCALE
x 123	SPOT ELEV		
	TREELINE		
	WETLANDS		

REFERENCE MAPS

1. "PROPERTY OF RUSSO BROTHERS INC. SERVICE ROAD (WEST BRANCH) HARTFORD, CONNECTICUT" PREPARED BY CLOSE, JENSEN, MILLER DATED DEC. 1967 SCALE 1"=40'

NOTES

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A PROPERTY SURVEY BASED ON A INDEPENDENT RESURVEY CONFORMING TO A-2 HORIZONTAL ACCURACY AND T-2 TOPOGRAPHIC ACCURACY AND INTENDED TO DEPICT AND NOTE THE POSITION OF A PROPOSED LEASE PARCEL WITH RESPECT TO EXISTING STRUCTURES ON PARCEL
2. NORTH IS BASED ON REFERENCE MAP #1
3. ELEVATIONS BASED ON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983)
4. BASE MAPPING PREPARED BY GESICK & ASSOCIATES P.C. FROM A AUG 1, 1998 FIELD SURVEY.
5. SUBJECT TO AN ACCURATE UP-TO-DATE ABSTRACT OF TITLE.
6. PARCEL LOCATED WITHIN FLOOD ZONE X PER COMMUNITY PANEL #095080 0005B DATED DEC 4, 1986.
7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.



LOCATION MAP

SCALE

2000 0 2000

1" = 2000 FT

To the best of my knowledge and belief this map is substantially correct as noted hereon.

Donald L. Gesick Jr. L.S. Reg. No. 18417

SURVEYORS CERTIFICATION

Copies of this survey map not bearing the Land Surveyor's Embossed Seal shall not be considered to be valid copies, certificates indicated or implied hereon shall run only to the party for whom the survey is prepared, and on behalf to the additional parties listed hereon. Certificates are not transferable to additional parties, or subsequent owners not listed hereon.

DONALD L. GESICK 18417 LICENSED LAND SURVEYOR

Gesick & Associates P.C.

SURVEYORS & ENGINEERS

19 Cedar Island Ave.
Clinton, CT 06413
(860) 669-7799
FAX (860) 669-5833
e-mail Gesick@aol.com

SURVEYORS & ENGINEERS

REVISIONS

#	DATE	
1.	8\17\98	MOVED LEASE PARCEL

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.

100 CORPORATE PLACE
ROCKY HILL, CONNECTICUT 06067
(860) 513-5400 FAX (860) 513 5444

Nextel Project #

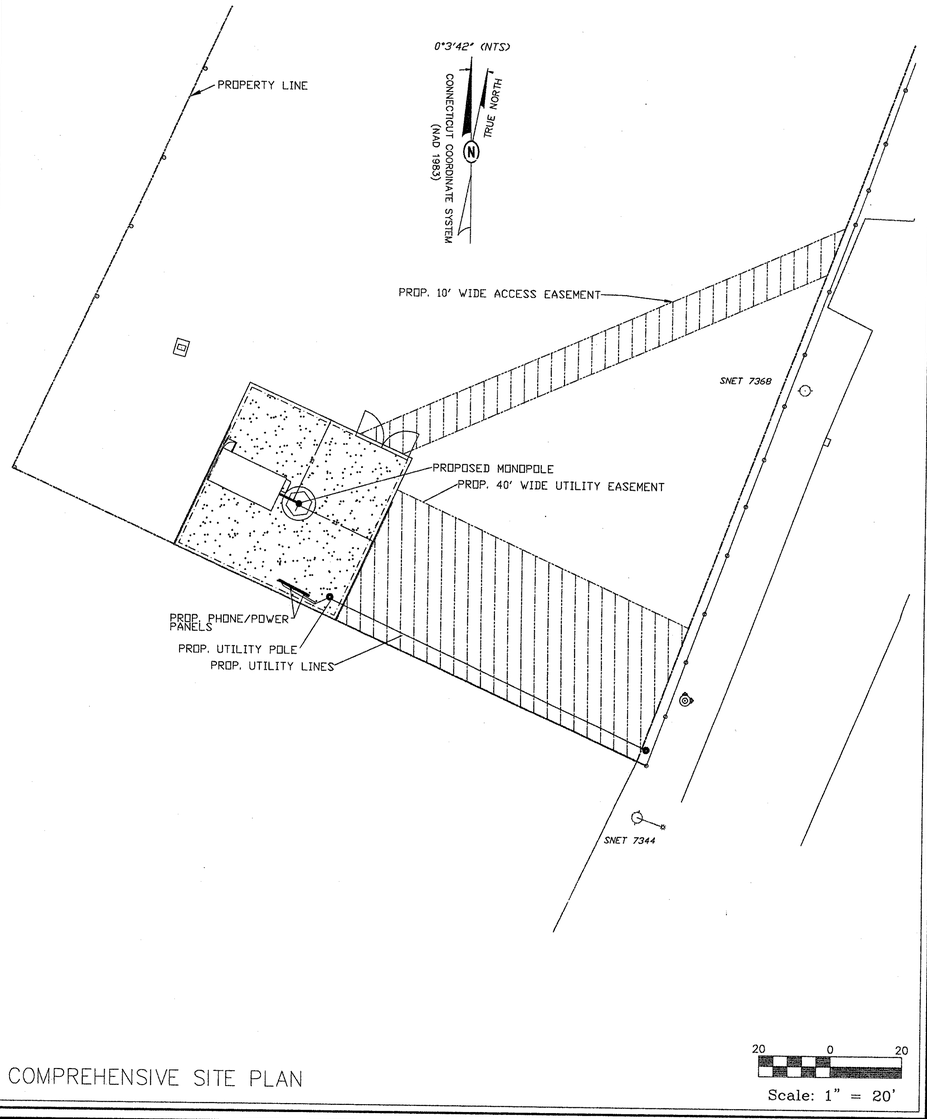
CT-0767 HARTFORD NORTH
305 WEST SERVICE ROAD
HARTFORD, CONN.

Nextel Project #
CT - 0767 Hartford North

Existing Conditions
of
305 West Service Road
Hartford, Connecticut
Prepared for
Nextel Communications
of The Mid-Atlantic, Inc.

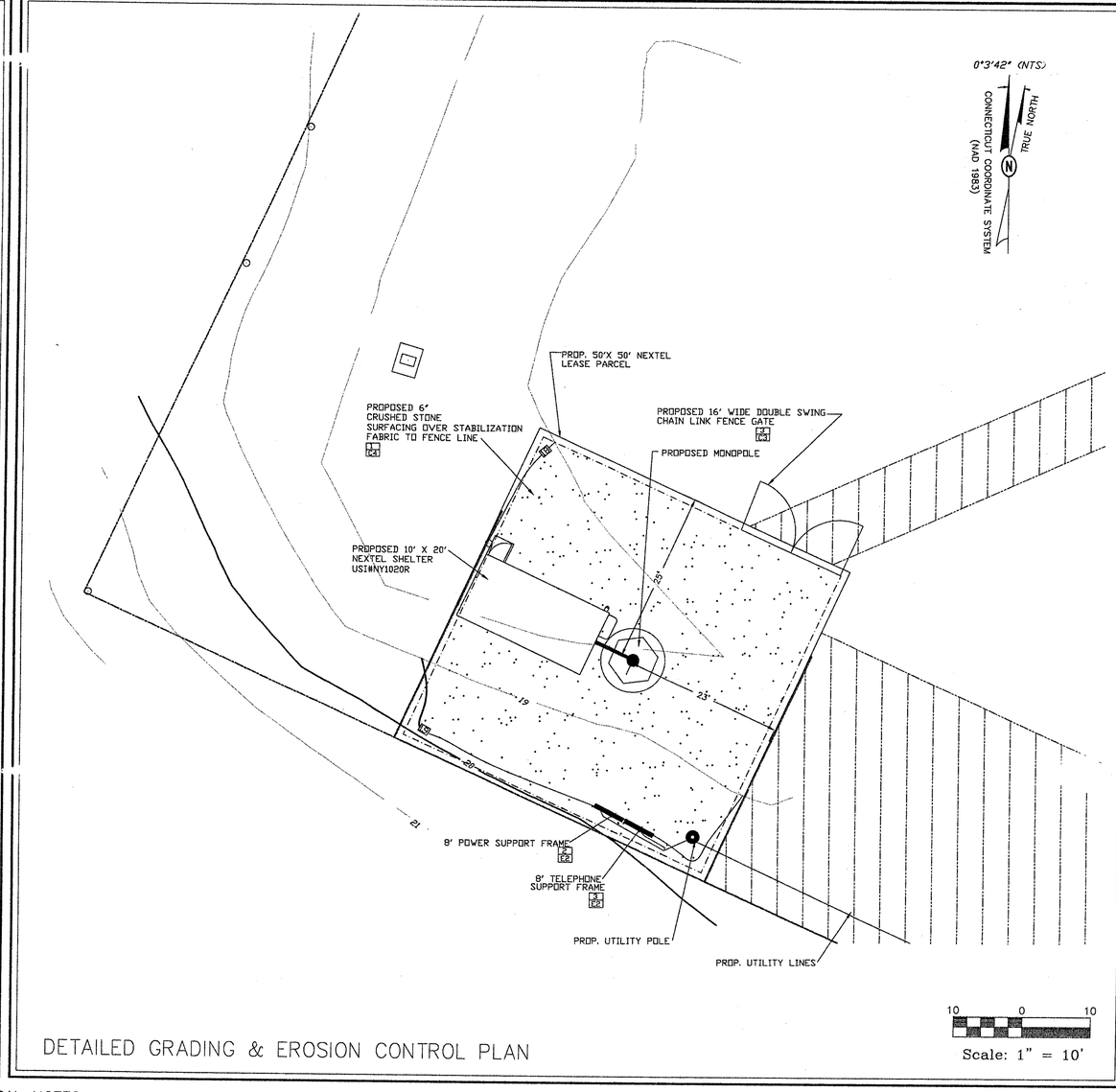
August 3, 1998

S-1



COMPREHENSIVE SITE PLAN

Scale: 1" = 20'



DETAILED GRADING & EROSION CONTROL PLAN

Scale: 1" = 10'

ACCESS EASEMENT GENERAL NOTES:

1. ACCESS DRIVE TO BE IMPROVED TO A MINIMUM OF 10' IN WIDTH. THE ACCESS SHALL BE MAINTAINED AND OR IMPROVED TO ALLOW CONSTRUCTION AND MAINTENANCE EQUIPMENT TO THE SITE. GRADES OF THE ACCESS SHALL MATCH EXISTING GRADES WITH MINOR GRADE MODIFICATIONS.

2. WHERE ACCESS DRIVE REQUIRES IMPROVEMENTS DETERMINED BY THE OWNERS CONSTRUCTION REPRESENTATIVE IN THE FIELD THE ACCESS SHALL BE IMPROVED TO BE 10' IN WIDTH. CONSTRUCTION SHALL CONSIST OF A MINIMUM OF 6" OF COMPACTED GRAVEL MATERIAL OVER A GEOTEXTILE FABRIC WITH A MINIMUM 150 MIL THICKNESS. THE DRIVE SHALL BE INSTALLED TO MATCH EXISTING GRADE WITH MINOR GRADE MODIFICATIONS.

3. GRAVEL MATERIAL SHALL BE AN EVENLY GRADED MIXTURE OF PROCESSED CRUSHED STONE WITH 100% PASSING THE A 1-1/2" SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE OR AS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.

4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

5. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

6. AUTHORIZATION FOR ACCESS TO AND WORK WITHIN PUBLIC ROAD R.O.W. SHALL BE OBTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL ADHERE TO ALL SPECIAL REQUIREMENTS SPECIFIED IN THE AUTHORIZATION.

REFERENCE MAPS

1. *"PROPERTY OF RUSSO BROTHERS INC. SERVICE ROAD (WEST BRANCH) HARTFORD, CONNECTICUT" PREPARED BY CLOSE, JENSEN, MILLER DATED DEC. 1967 SCALE 1"=40'*

NOTES

1. *THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A PROPERTY SURVEY BASED ON A INDEPENDENT RESURVEY CONFORMING TO A-2 HORIZONTAL ACCURACY AND T-2 TOPOGRAPHIC ACCURACY AND INTENDED TO DEPICT AND NOTE THE POSITION OF A PROPOSED LEASE PARCEL WITH RESPECT TO EXISTING STRUCTURES ON PARCEL*
2. *NORTH IS BASED ON REFERENCE MAP #1*
3. *ELEVATIONS BASED ON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983)*
4. *BASE MAPPING PREPARED BY GESICK & ASSOCIATES P.C. FROM A AUG 1, 1998 FIELD SURVEY.*
5. *SUBJECT TO AN ACCURATE UP-TO-DATE ABSTRACT OF TITLE.*
6. *PARCEL LOCATED WITHIN FLOOD ZONE X PER COMMUNITY PANEL #095080 0005B DATED DEC 4, 1986.*
7. *SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.*
8. *UNDERGROUND UTILITIES SHOWN FROM ACTUAL FIELD LOCATION IF POSSIBLE. EXACT LOCATION MAY DIFFER FROM THAT SHOWN, OTHER UTILITIES MAY EXIST.*

SITE WORK GENERAL NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PCS EQUIPMENT AND TOWER AREAS.
3. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
4. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING ENGINEER.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF AN ENGINEER.
6. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, AND SEEDED.
7. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE LOCAL CODE ENFORCEMENT OFFICE.
8. UTILITY EASEMENT SHALL B[illegible]RED BY LOCAL UTILITY. MAXIMUM WIDTH SHALL BE 40' CLEAR.
9. ACTUAL LOCATIONS OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INITIATION OF THE SITE WORK.

STATE OF CONNECTICUT — GENERAL CERTIFICATE — No. 19449 — LICENSED PROFESSIONAL ENGINEER

Gesick & Associates P.C.
SURVEYORS & ENGINEERS
19 Cedar Island Ave.
Clinton, CT 06413
(860) 669-7799
FAX (860) 669-5839
e-mail Gesick@aol.com

DATE: 08/03/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.	08/17/98	LOC. MOVED 50'	RJG

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
ROCKY HILL, CONNECTICUT 06067
(860) 513-5400 FAX (860) 513 5444

NEXTEL COMMUNICATIONS SITE:
#07767 HARTFORD NORTH
305 WEST SERVICE ROAD
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

Sheet title:
Comprehensive Site Plan

DRAWING NUMBER: C-1

GENERAL NOTES & SPECIFICATIONS

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-282-7411.
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
6. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
9. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
10. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE OSHA REGULATIONS FOR CONSTRUCTION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
12. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
14. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OR OWNER'S REPRESENTATIVE ON THE DRAWINGS.
15. CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE EQUIPMENT PAD AND THE TOWER.
16. ALL IMPROVEMENTS TO CONFORM WITH LOCAL, STATE & FEDERAL COSTRUCTION STANDARDS AND SPECIFICATIONS.

GENERAL NOTES

1. 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.
2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
6. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
7. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING.
8. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
3. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
4. CONNECTIONS:
   A. ALL WELDING SHALL BE DONE USING MANUFACTURER APPROVED METHODS. WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION ", 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
   B. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
   C. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

CONCRETE

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
4. MAXIMUM AGGREGATE SIZE SHALL BE 1".
5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 185
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING

6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.

   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1 1/2 IN.
9. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
11. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
12. DO NOT WELD OR TACKWELD REINFORCING STEEL.
13. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
14. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
15. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
16. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
17. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
18. DO NOT ALLOW CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
19. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
20. CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWL.

EXCAVATION & GRADING NOTES:

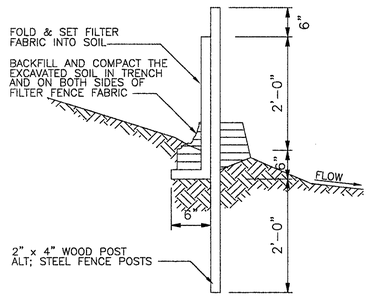
1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
5. BACKFILLING SHALL:
   -USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE;
   -BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
   -BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR IS REQUIRED.
6. FILL PREPARATION:
   REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE 3 : 1 MAXIMUM, UNLESS OTHERWISE NOTED.
13. REMOVE ALL ORGANICS, ROCKS GREATER THAN 3", UNUSED FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.

EROSION & SEDIMENT CONTROL NARRATIVE:

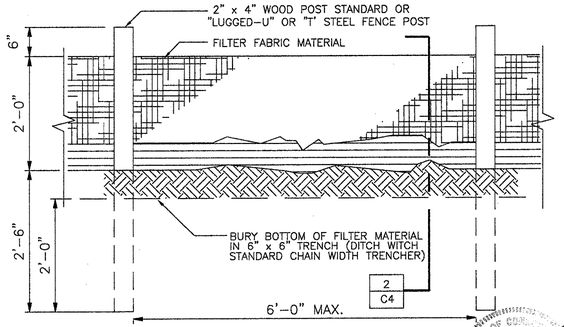
1. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
3. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION.
   CONTRACTOR SHALL CALL LOCAL MUNICIPAL REPRESENTATIVE FOR AN INSPECTION OF SOIL EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING ACTIVITY.
   ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED.
4. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR ELECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
8. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH SEEDING.
10. SEEDING:
    SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3". THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY 50 LBS. OF DOLOMITIC LIMESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1,000 SQUARE FEET. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3" ON SLOPES FLATTER THAN 3:1.
    SEEDING: APPLY 50 LBS. PER ACRE OF COMMON BERMUDA & WINTER RYE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER RECOMMENDED ON STEEP SLOPES ONLY) ON A MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE 1/2" IN CLAY SOILS AND 1/2" IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE UNTIL VEGETATION IS FIRMLY ESTABLISHED IF SOIL MOISTURE IS NOT SUFFICIENT TO SUPPORT ADEQUATE GROWTH.
11. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
12. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
13. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
14. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
15. CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
16. THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.

ACTIVITY SCHEDULE	WEEK 1	WEEK 2	WEEK 3	WEEK 4
PROJECT CONSTRUCTION				
CLEARING, GRUBBING, AND GRADING				
MAINTAINING EROSION CONTROL MEASURES				
GRASSING				
REMOVING EROSION CONTROL MEASURES				
FINAL LANDSCAPING, GRASSING				

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.



2 / C4 SILT FENCE SECTION
.... TO SCALE



NOTE: FABRIC SHALL RETAIN 85% OF SOIL BASED ON SIEVE ANALYSIS, BUT NOT FINER THAN OPENING SIZE 70.

ALTERNATE: USE PREMANUFACTURED SILT FENCE.

1 / C4 SILT FENCE ELEVATION
NOT TO SCALE

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DATE: 08/03/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.	08/16/98	MISC. DETAILS	RJG

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
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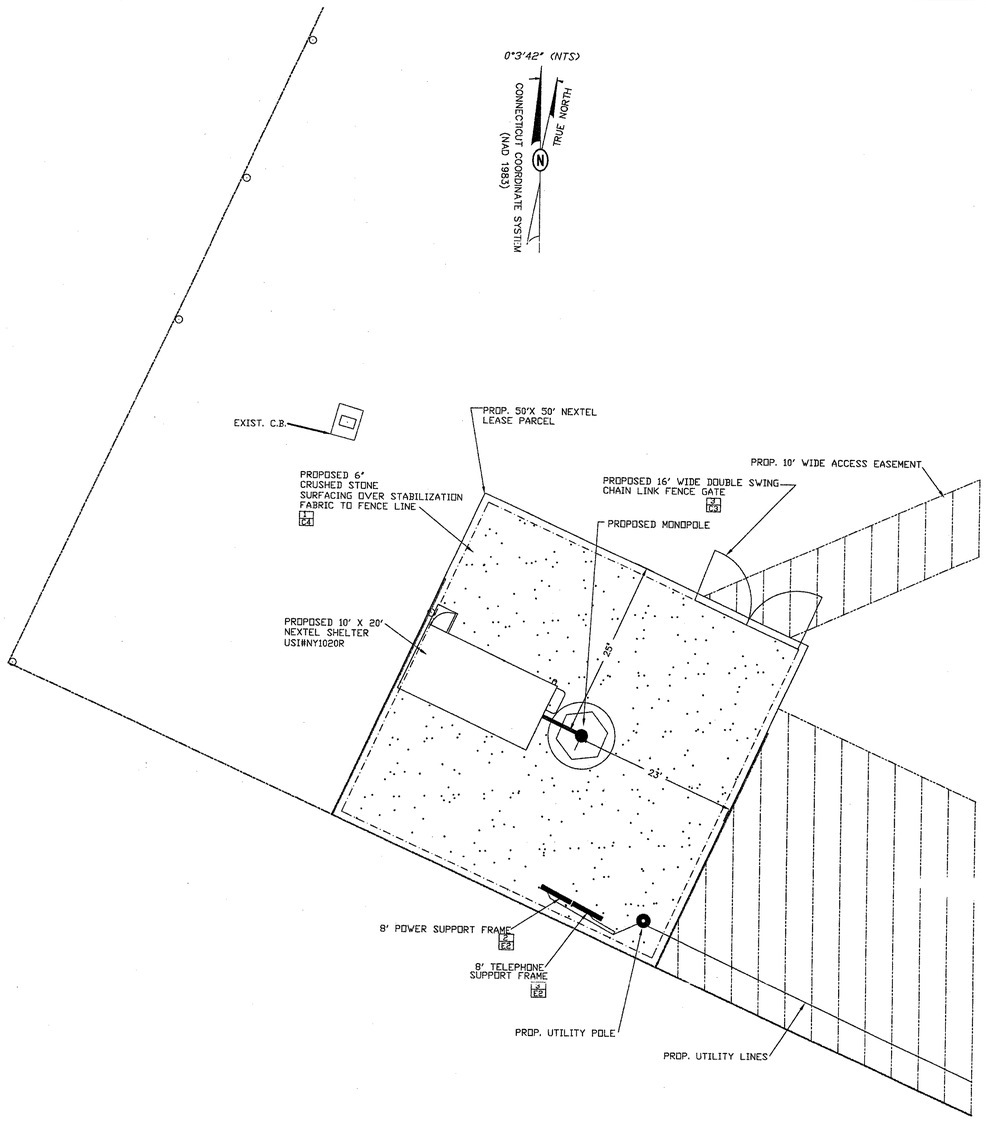
G&A PROJECT #98-082B

Sheet title:
General Notes & Erosion Control Narrative

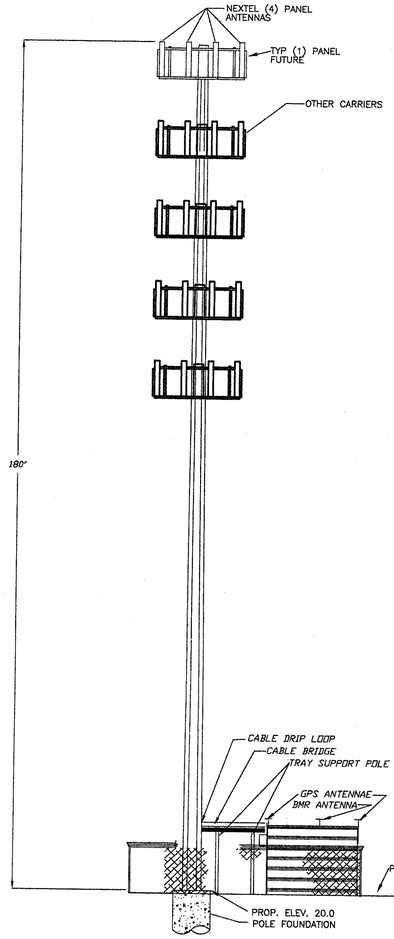
DRAWING NUMBER: C-4



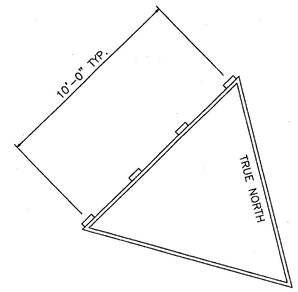
10 0 10

Scale 1" = 10 ft

SITE LAYOUT



1	MONOPOLE TOWER DETAIL
2	NOT TO SCALE



PLAN
ANTENNA PLAN

ANTENNA DETAILS

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DATE: 08/03/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

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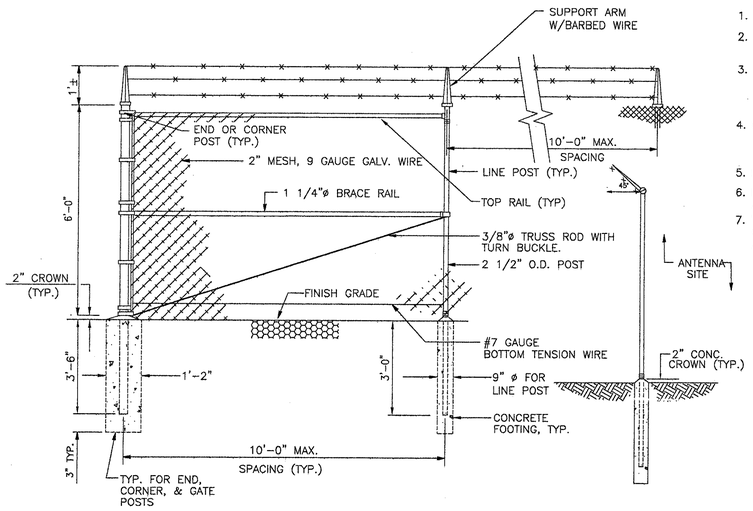
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

Sheet title:
Site Plan & Elevations

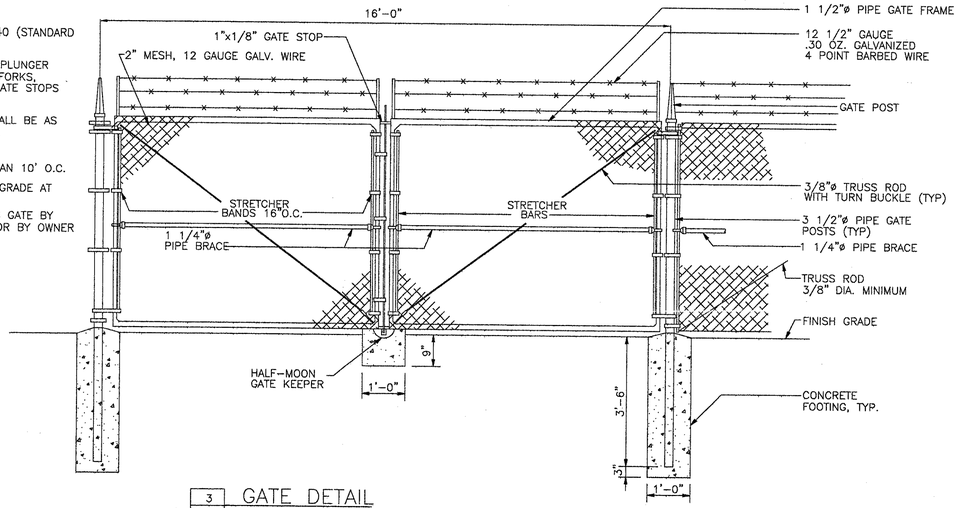
DRAWING NUMBER: C-2



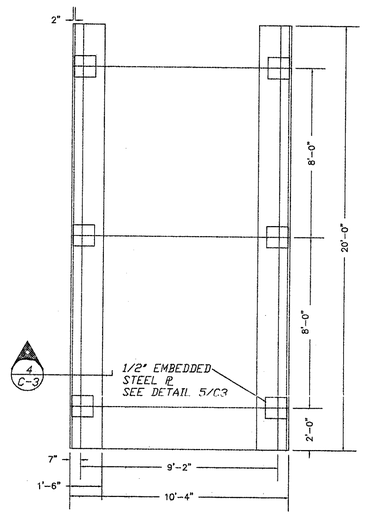
2 C3 FENCE DETAIL
NOT TO SCALE

FENCE NOTES:

1. FENCING MATERIALS SHALL BE OF GALVANIZED STEEL.
2. POST, BRACES AND GATE FRAMES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE NOMINAL DIAMETER.
3. DOUBLE SWING GATE SHALL BE PROVIDED WITH TUBULAR PLUNGER BAR, 1 LOCK KEEPER, 1 LOCK KEEPER GUIDE, 2 LATCH FORKS, 2 FORK CATCHES, 1 CATCH FOR PLUNGER BAR, AND 2 GATE STOPS LOCATED AS DIRECTED BY THE ENGINEER.
4. POSTS, CAPS AND OTHER NECESSARY FENCE FITTINGS SHALL BE AS MANUFACTURED BY THE FENCE MANUFACTURER OR EQUAL HINGES SHALL BE OF GALVANIZEDSTEEL.
5. POSTS SHALL BE SPACED EQUIDISTANT BUT NOT MORE THAN 10' O.C.
6. BOTTOM OF FENCE SHALL BE NO MORE THAN 3" ABOVE GRADE AT ANY SECTION.
7. "HARK" MONITORING SYSTEM TO BE INSTALLED AT ACCESS GATE BY CONTRACTOR. SYSTEM SHALL BE SUPPLIED TO CONTRACTOR BY OWNER AND ENERGIZED BY A "HARK" FIELD REPRESENTATIVE.



3 C3 GATE DETAIL
NOT TO SCALE



4 C3 FOUNDATION PLAN
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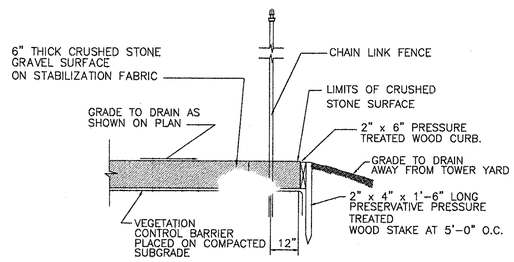
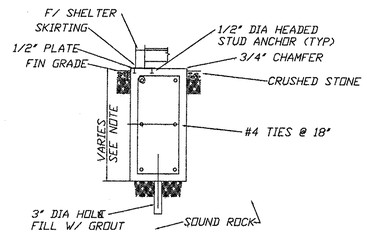
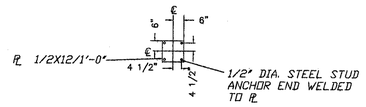


1 C3 SECTION THROUGH TOWER YARD
NOT TO SCALE



NOTE:
IF ROCK IS NOT ENCOUNTERED, THE GRADE BEAM SHALL EXTEND A MINIMUM OF 4'-0" DEEP

5 C3 SECTION
NOT TO SCALE



6 C3 DETAIL
NOT TO SCALE

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DATE: 08/03/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.			

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
ROCKY HILL, CONNECTICUT 06067
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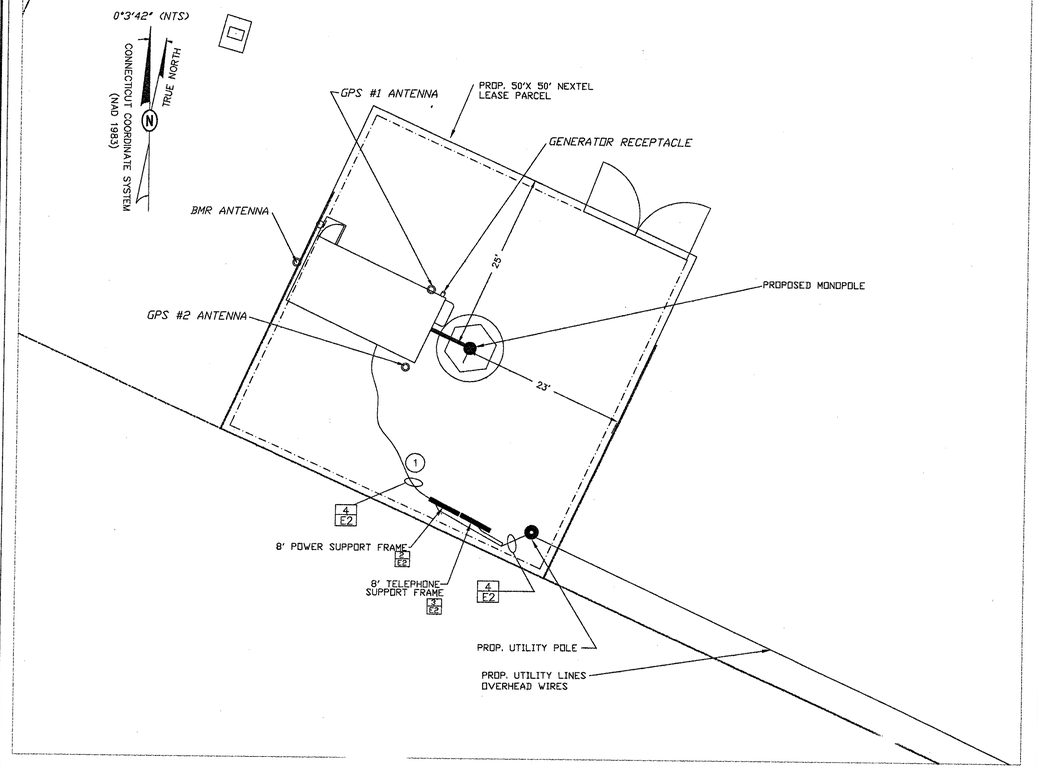
NEXTEL COMMUNICATIONS SITE:
#07767 HARTFORD NORTH
305 WEST SERVICE ROAD
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

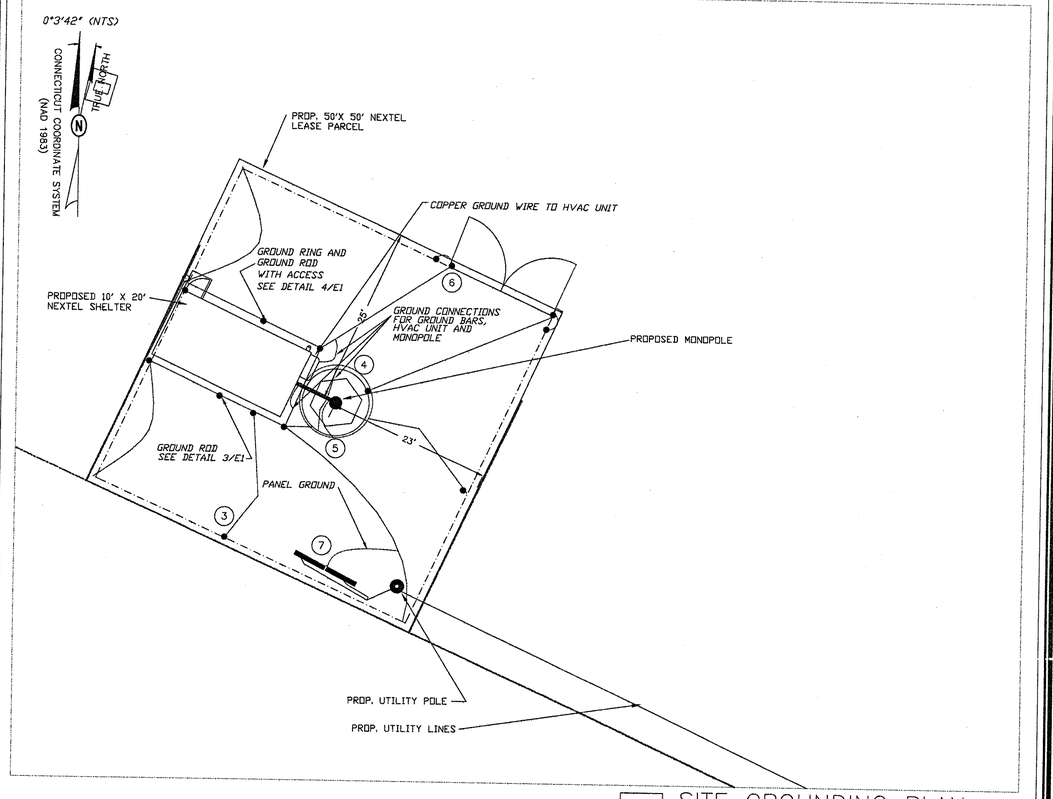
Sheet title:
SITE DETAILS

DRAWING NUMBER: C-3

STATE OF CONNECTICUT
ROBERT J. GESICK
No. 15447
LICENSED
PROFESSIONAL ENGINEER



1 E1 ELECTRICAL SITE PLAN
1"=10'



2 E1 SITE GROUNDING PLAN
SCALE: 1"= 10'

ELECTRICAL SITE PLAN
CODED DRAWING NOTES:

1. RUN CONDUIT UNDERGROUND. STUB UP POWER AND TELEPHONE CONDUITS AND CAP AT UTILITY POLE AS DIRECTED BY UTILITY COMPANY.
2. RECEPTACLE MOUNTED TO TELEPHONE BACKBOARD.
4. EXTEND AND CONNECT TO PANELBOARD. REFER TO 1/E2.

ELECTRICAL SYMBOLS

- CIRCUIT BREAKER
- BURIED RACEWAY
- FUSED DISCONNECT SWITCH
- (X) INDICATES CODED NUMBER
- XXX / XXX — REPRESENTS DETAIL NUMBER / REF. DRAWING NUMBER

ABBREVIATIONS

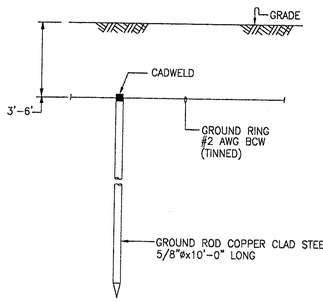
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISH GRADE
C	CONDUIT
CAB	CABINET
DWG	DRAWING
G	GROUND
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
SS	STAINLESS STEEL
SST	SELF SUPPORTING TOWER
TYP.	TYPICAL

SITE GROUNDING PLAN
CODED DRAWING NOTES

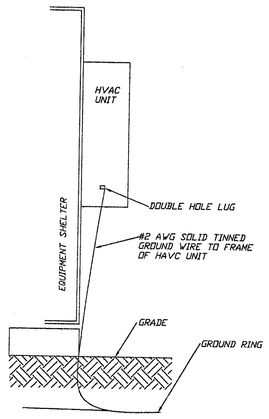
1. GROUND RING (MIN. 1'-6" FROM OUTSIDE EDGE OF TOWER FOUNDATION)
2. CONNECT SERVICE DISCONNECTING MEANS TO GROUND ROD.
3. CONNECT FENCE TO GROUND RING. TYPICAL 4 PLACES.
4. CONNECT TOWER BASE TO GROUND ROD IN TOWER RING (TYP. FOR 3). CADWELD TO TOWER BASE PLATE OR GROUNDING LUG PROVIDED BY TOWER MANUFACTURER. DO NOT CADWELD TO HOLLOW TUBULAR TOWER.
5. CONNECT MAIN REBAR IN TOWER FOUNDATION TO GROUND RING. PROVIDE JUMPER FROM REBAR TO TOWER STEEL.
6. CONNECT GATE TO GATE POST (TYP. FOR 2) WITH 4/0 WELDING CABLE THAT HAS BEEN CRIMPED ON EACH END WITH A CAP FOR THE CADWELD PROCESS. LENGTH SHALL ALLOW FULL SWING OF GATE. CONNECT GATE POSTS TO GROUND ROD.
7. CONNECT EQUIPMENT FRAME TO GROUND RING.

GROUNDING SYMBOLS

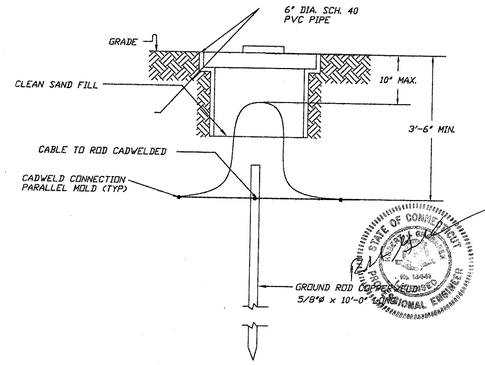
- ⊠ GROUND ROD WITH ACCESS
- ⊗ GROUND ROD
- • CADWELD TYPE CONNECTION
- —G— BURIED GROUND CABLE 30" BFG
- (X) INDICATES CODED NUMBER
- XXX / XXX — REPRESENTS DETAIL NUMBER / REF. DRAWING NUMBER



3 E1 COPPER-CLAD STEEL GROUND ROD
NOT TO SCALE



5 E1 HVAC UNIT GROUND
NOT TO SCALE



4 E1 GROUND ROD WITH ACCESS
NOT TO SCALE

DEPT. OF BUILDING & INSPECTION CITY OF HARTFORD 3/2/99 VH

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DATE: 08/03/98 DRAWN BY: RJG
SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.	8/18/98	LEASE MOVED 50'	RJG

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G&A PROJECT #98-082B

Sheet title:
Electrical Site & Grounding Plan

DRAWING NUMBER: E-1

GENERAL NOTES

1. INSPECTIONS
   - A. GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REQUIREMENTS, AND THE LATEST EDITION OF NEC, NFC, NEMA, OSHA, SBC, AND UL.
   - B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
   - C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
   - D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.
2. HANGERS AND SUPPORTS
   - A. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURERED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.
   - B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.
   - C. INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE. MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.
   - D: STRUCTURAL MEMBERS: DO NOT CUT, DRILL, OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.
   - E. MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
   - F. ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.
3. ENCLOSURES
   - A. NEMA 3R
4. HOLES, SLEEVES AND OPENINGS
   - A. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES.
   - B. CONDUIT PENETRATIONS: SIZE CORE DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED. PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACE.
5. CUTTING AND PATCHING
   - A. GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES ANY AND ALL WORK NECESSARY TO: UNCOVER WORK TO PROVIDE FOR THE INSTALLATION OF ILL TIMED WORK, REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
   - B. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED.
6. RACEWAY SYSTEMS
   - A. ALL ABOVE GRADE CONDUIT AND ALL CONDUIT ELBOWS SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. ALL BELOW GRADE CONDUIT (EXCEPT ELBOWS) SHALL BE SCHEDULE 40 PVC. TOWER LIGHT CIRCUIT FROM CONTROLLER TO LIGHTS SHALL BE SCHEDULE 40 PVC. RACEWAY BURIAL DEPTH SHALL BE AS PER NEC. USE CLEAN SAND BACKFILL FOR ALL BURIED RACEWAY SYSTEMS.
7. CONDUCTORS

   USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
8. ELECTRIC SERVICE
   - A. GENERAL: COMPLY WITH AND COORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
   - B. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.
   - C. PROVIDE PULL BOXES AS REQUIRED BY THE UTILITY COMPANY.
9. TELEPHONE SERVICE
   - A. GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.
10. GROUNDING SYSTEM
    - A. INSTALLLATION: INSTALL AS INDICATED ON THE DRAWINGS AND AS REQUIRED. CONTRACTOR'S REPRESENTATIVE WILL INSPECT CADWELDS. MEGGER TESTS SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO BURIAL. RESULTS ARE TO BE SUBMITTED TO THE OWNERS REPRESENTATIVE. A MAXIMUM OF 5 OHMS RESISTANCE IS REQUIRED. USE CLEAN SAND AND CLAY BACKFILL FOR BURIED GROUND CONDUCTORS
11. CHECKOUT, TESTING AND ADJUSTING
    - A. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.
    - B. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY & INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH & POWER CABINET.
    - C. WHEN SITE POWER IS DERIVED FROM 3 PHASE SOURCE LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE TURNED TO THE OWNER'S REPRESENTATIVE.

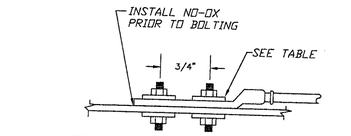
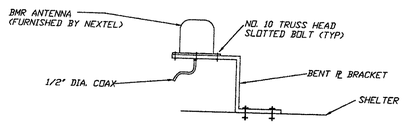
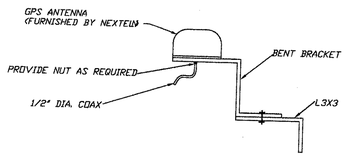


TABLE		
WIRE SIZE	LUG #	BOLT SIZE
#2	YA2C-2TC14E2	1/4" - 20NCx3/4"
#6	YA6C-2TC14E2	1/4" - 20NCx3/4"

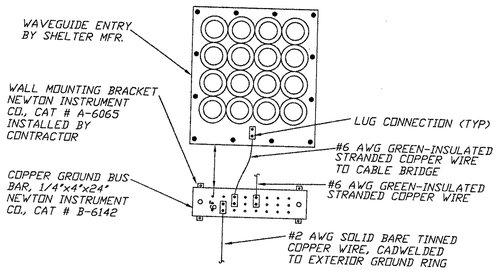
7 / E2 LUG GROUND CONNECTION
NOT TO SCALE



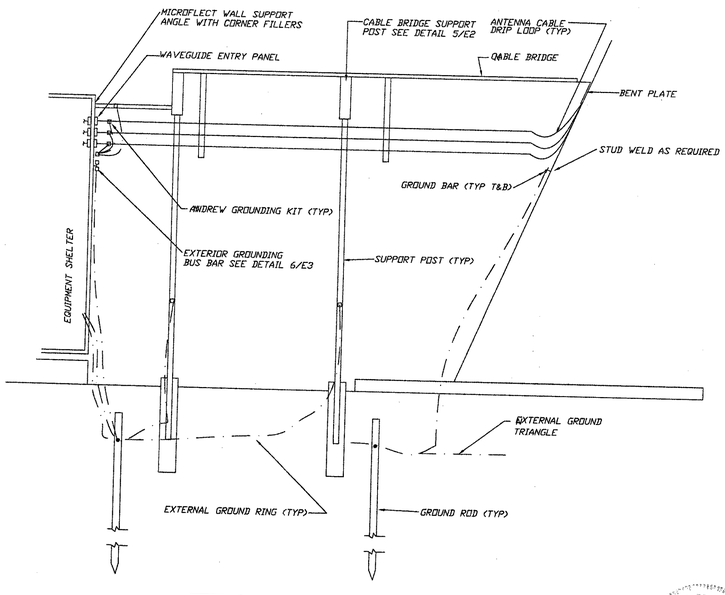
1 / E2 BMR ANTENNA MOUNT
NOT TO SCALE



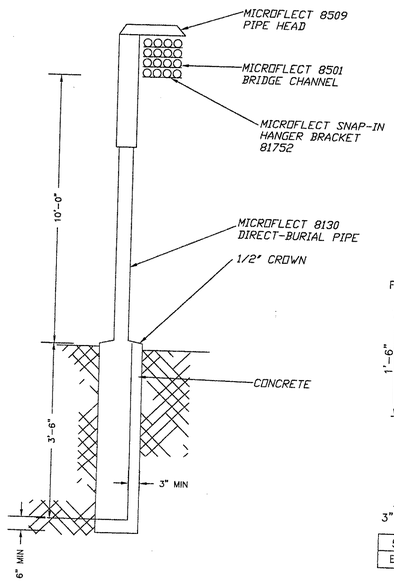
2 / E2 GPS ANTENNA MOUNT
NOT TO SCALE



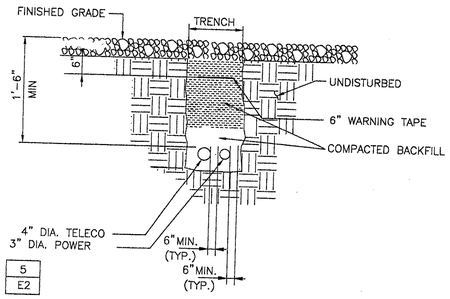
6 / E2 EXTERIOR GROUND BAR
NOT TO SCALE



8 / E2 CABLE BRIDGE GROUNDING ELEVATION
NOT TO SCALE



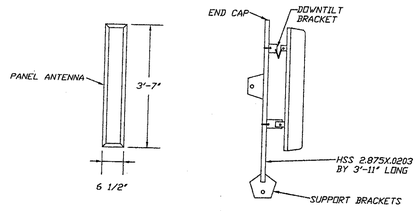
5 / E2 CABLE BRIDGE DETAIL
NOT TO SCALE



5 / E2

1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS
2. CONDUIT TO BE SCH. 40 PVC UNLESS OTHERWISE REQUIRED BY LOCAL UTILITY

4 / E2 UNDERGROUND CONDUIT(S) ELECTRIC/TELEPHONE
NO SCALE



3 / E2 ANTENNA MOUNTING DETAILS
NOT TO SCALE

NOTES

1. CONTRACTOR TO SUPPLY WATT-HOUR METER SOCKET. LOCAL UTILITY TO PROVIDE METERS. CONTRACTOR TO COORDINATE AND/OR INSTALL IN ACCORDANCE WITH UTILITY REQUIREMENTS.
2. WIREWAY SHALL BE NEMA 3R GALVANIZED SHEET STEEL WITH HASP FOR PADLOCK.
3. ALL NEW STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 G90 AFTER FABRICATION.
4. FIELD ABRASIONS SHALL BE TOUCH UP PAINTED WITH ZINC RICH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780.
5. BOLT 4'x8'x3/4" PRESSURE TREATED PLYWOOD BACKBOARD TO TELEPHONE SUPPORT FRAME. PROVIDE PRIMER COAT AND TWO COATS GRAY EXTERIOR ENAMEL TO PLYWOOD.
6. PROVIDE 200LB. TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT. STUB CONDUITS INTO ENCLOSURE AND LABEL.
7. PROVIDE 4'x3'x12"D. NEMA 3R LOCKABLE STEEL ENCLOSURE ("SUNWEST" OR EQUAL) FOR TELEPHONE CABLE TERMINATION.
8. PROVIDE 4" SQ.x2"D. WP BOX ON BACKBOARD. EXTEND 1#6G. FROM GROUND RING INTO BOX, LEAVE 10' FT. COILED WIRE IN BOX FOR FUTURE USE.
9. PROVIDE WEATHERPROOF GFI 20A/125VOLT RECEPTACLE ABOVE FINISHED GRADE; MOUNT TO BACKBOARD.
10. ALL EXPOSED ENDS OF CONDUITS SHALL HAVE WEATHER PROOF CAPS NOT DUCT TAPE.

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DATE: 08/13/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.			

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NEXTEL COMMUNICATIONS SITE:
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305 WEST SERVICE ROAD
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

Sheet title:
Electrical Details & Notes

DRAWING E-2

INCOMING POWER AND TELEPHONE SERVICE NOTES:

1. THE LOCATIONS SHOWN FOR THE RISER POLE, CONNECTION TO EXISTING UTILITIES, AND INCOMING POWER AND TELEPHONE SERVICES IS FOR CONCEPT ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH SNET, THE OWNER AND CL&P (CONNECTICUT LIGHT AND POWER).

2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRAIGNMENTS WITH CL&P AND SNET RELATIVE TO A TIMELY INSTALLATION OF THE INCOMING POWER AND TELEPHONE SERVICES. THE OWNER WILL OBTAIN AN ELECTRIC SERVICE ORDER (ESO) FOR THIS SITE FROM CL&P AND SNET PRIOR TO THE CONTRACTOR INITIATING ANY WORK ON-SITE.

3. THE INCOMING ELECTRIC SERVICE SHALL BE INSPECTED BY THE AUTHORITY HAVING JURISDICTION AND A CERTIFICATE OF SUCH INSPECTION SHALL BE FURNISHED TO THE OWNER WITH A COPY FORWARDED TO CL&P.

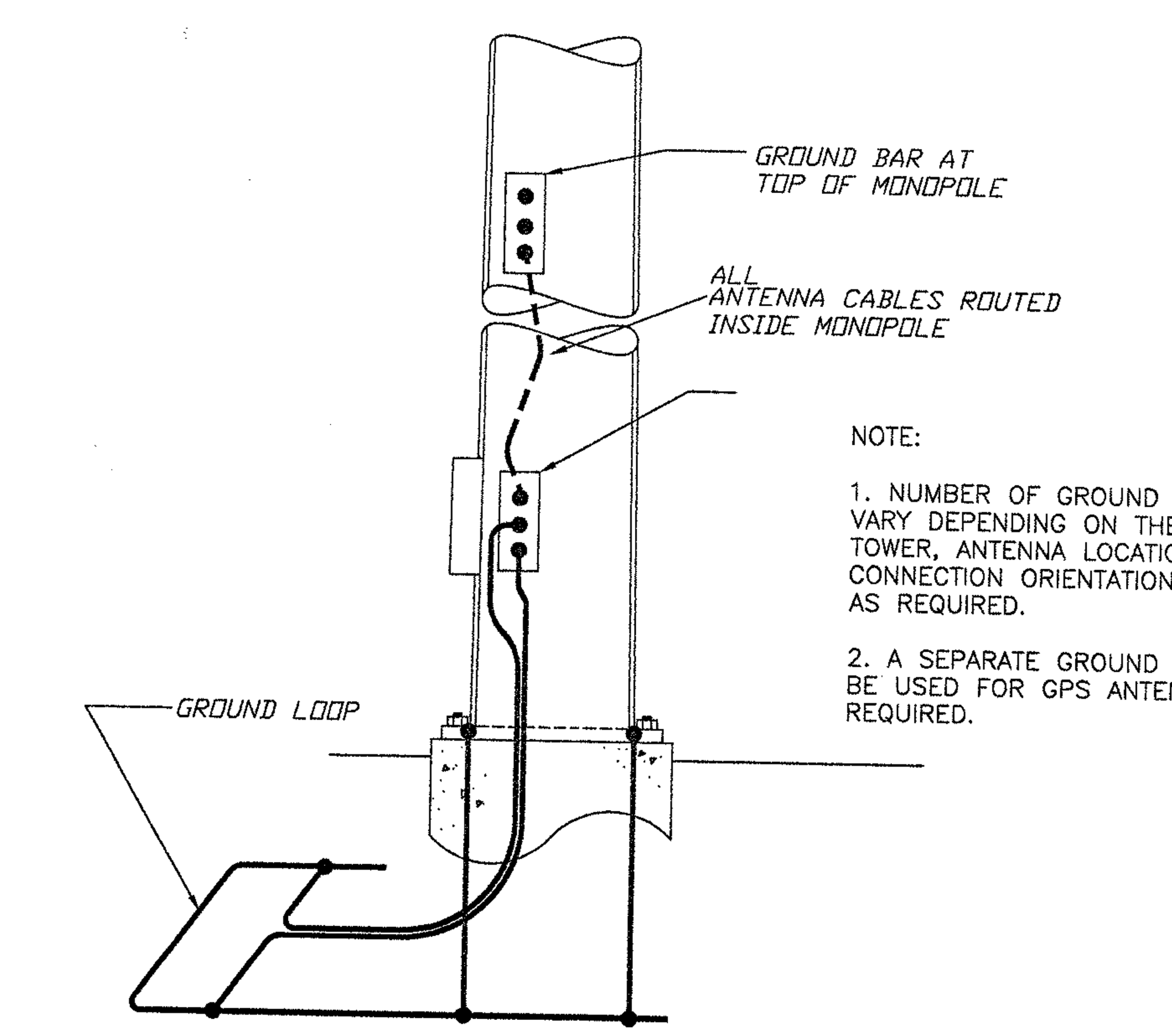
4. ANY CL&P CHARGES ASSOCIATED WITH THIS SITE SHALL BE PAID FOR BY THE OWNER.

5. FOR INCOMING UNDERGROUND TELEPHONE SERVICE , THE CONTRACTOR SHALL INSTALL THE CONDUITS INCLUDING PULL WIRES BETWEEN THE RISER POLE AND THE POWER PROTECTION CABINET (PPC). THE CONTRACTOR SHALL PROVIDE PRECAST PULL-BOXES INCLUSIVE OF THE PRECAST COVERS OF THE TYPE AND AS REQUIRED BY SNET. THE MAXIMUM DISTANCE BETWEEN BOXES CAN NOT EXCEED 200'. AT THE PROPOSED RISER POLE EXTEND THE TELEPHONE CONDUIT UP THE POLE APPROXIMATELY 8' UP THE POLE AND SEAL.

6. THE CONTRACTOR SHALL COORDINATE THE METER REQUIREMENTS WITH CL&P AND THE OWNER.

7. THE INCOMING ELECTRIC SERVICES SHALL BE INSTALLED IN CONFORMANCE WITH CL&P STANDARDS (LATEST EDITION).

8. THIS SITE MAY CONTAIN CRITICAL UNDERGROUND ELECTRIC AND TELEPHONE SERVICES IN THE VICINITY OF THE NEW UNDERGROUND SERVICES AND THE EQUIPMENT SUPPORTS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISRUPTION OF THESE EXISTING FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT CL&P AND SNET, AND ALL THE APPROPRIATE AGENCIES PRIOR TO EXCAVATION AT THIS SITE.

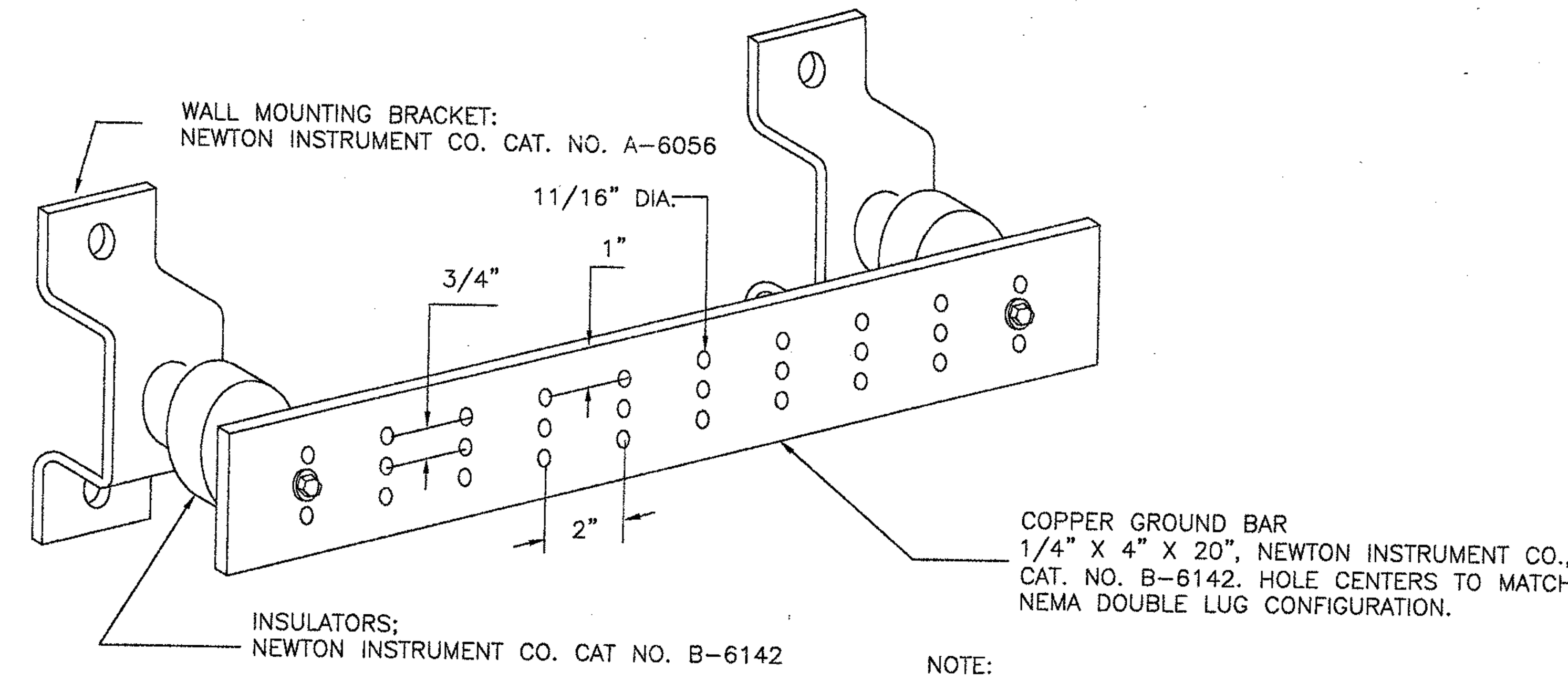


NOTE:

1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.

2. A SEPARATE GROUND BAR IS TO BE USED FOR GPS ANTENNA IF REQUIRED.

2 / E3 GROUNDING – MONOPOLE DETAIL
NO SCALE

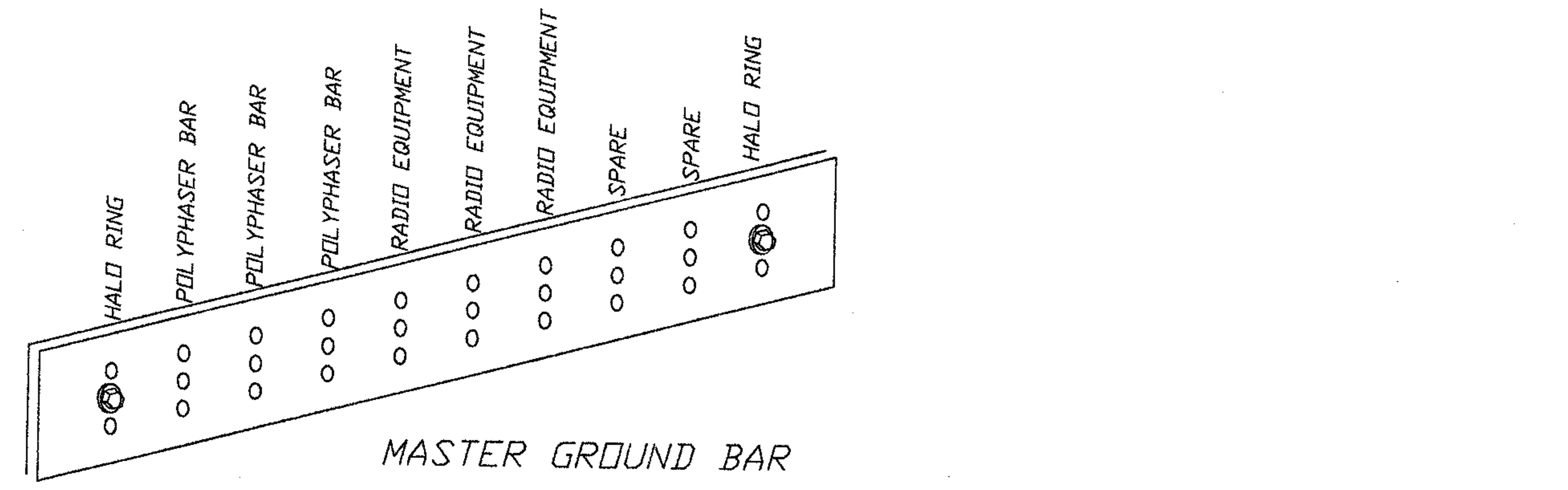


6 / E3 GROUND BAR DETAIL
NO SCALE

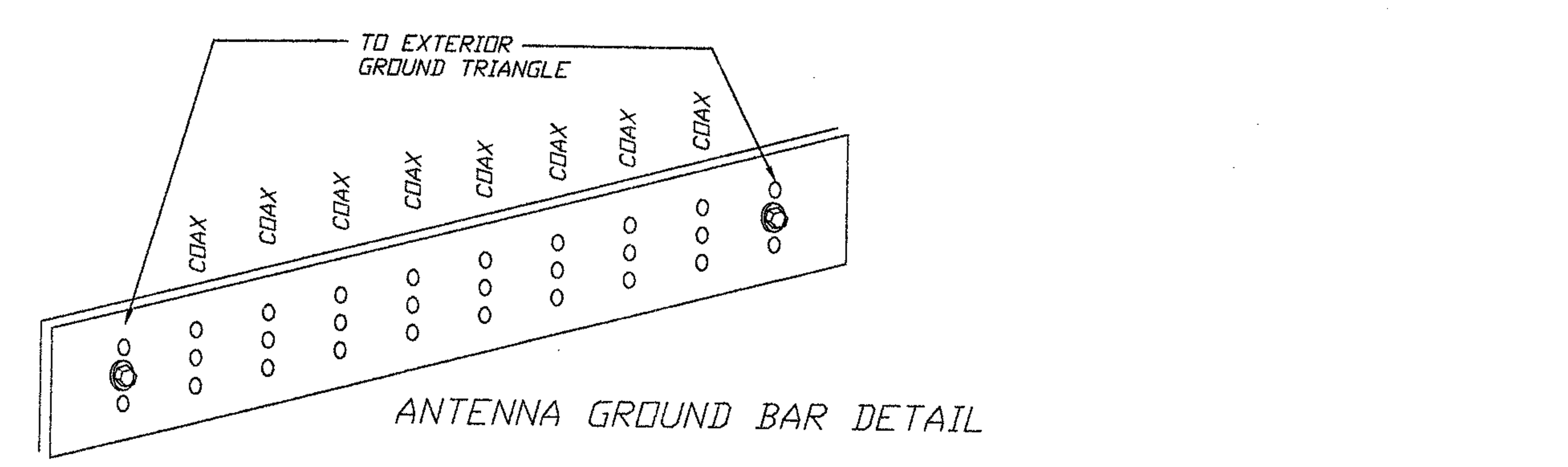
NOTE:

1. USE 5/8" - 11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1

2. USE 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT NO. 3015-8



MASTER GROUND BAR



ANTENNA GROUND BAR DETAIL

CELL SITE GROUNDING INSTALLATION NOTES:

1. ALL METAL CONDUIT FOR THE GROUNDING OF DOWN CONDUCTORS SHALL BE BONDED TO THE GROUND SYSTEM AT BOTH ENDS.

2. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL GROUNDING CONNECTIONS.

3. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE CADWELD PROCESS.

4. ALL CADWELDS SHALL BE INSTALLED USING THE PROPER CONNECTION/MOLD AND MATERIALS FOR THE PARTICULAR CONNECTION AND/OR APPLICATION.

5. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH A LOCK WASHER UNDER THE NUT. HARDWARE FOR THE BOLTED CONNECTION SHALL BE A MINIMUM OF 3/8" DIAMETER AND SHALL BE STAINLESS STEEL.

6. GROUNDING WIRE SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE HAVING A "CHOKE" POINT.

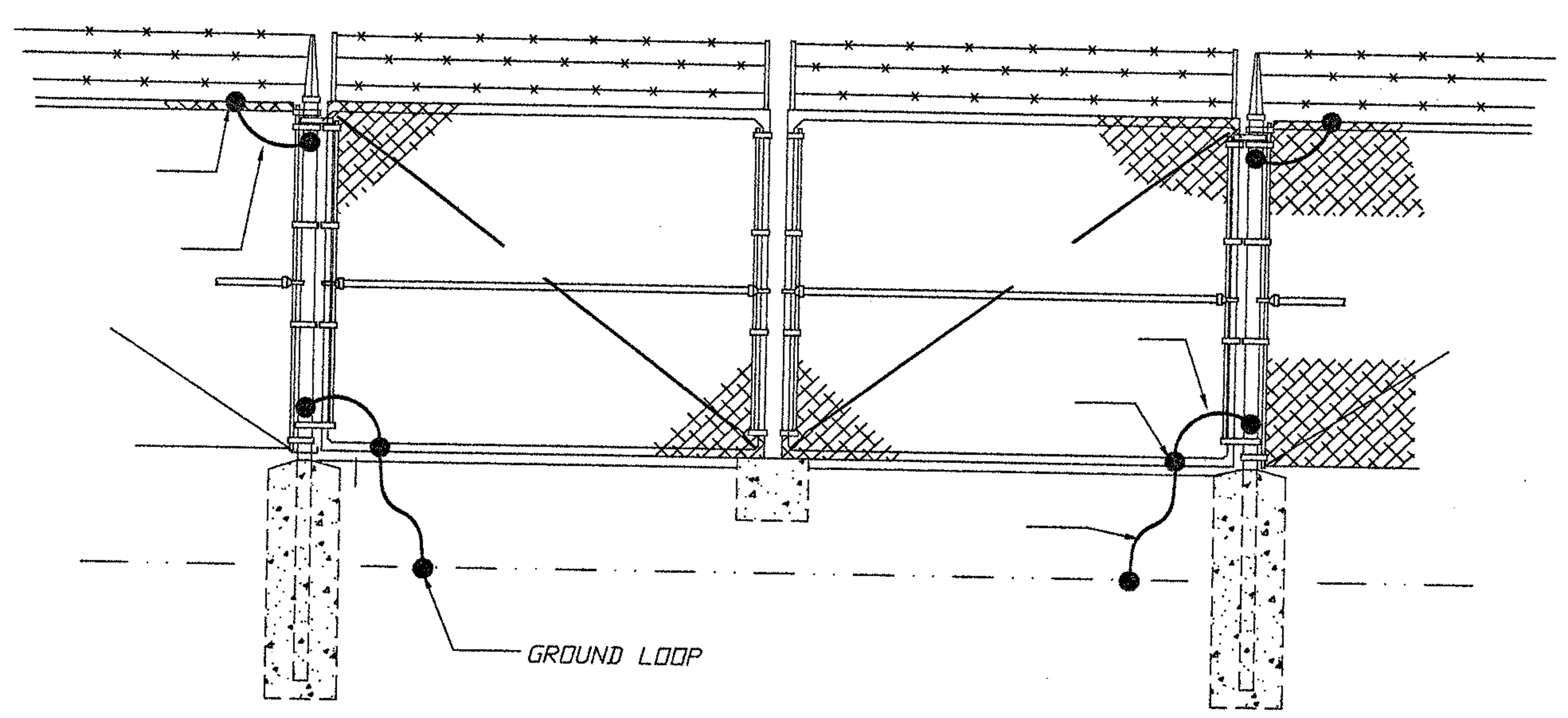
7. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED. CLIPS OF THE FOLLOWING MATERIALS AND TYPES MAY BE USED TO FASTEN AND SUPPORT THE GROUNDING CONDUCTORS.

A: PLACTIC CLIPS
B: METAL CLIPS THAT DO NOT COMPLETELY SURROUND THE GROUNDING CONDUCTOR

8. STANDARD BUSS BARS (CIGBES AND MIGBS) SHALL BE FURNISHED AND INSTALLED. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD.

9. THE GROUNDING CONNECTION TO THE POWER AND TELCO CABINETS SHALL BE MADE BY CONNECTING THE CONDUCTOR FROM THE GROUND RING TO THE BUSS BAR IN EACH COMPARTMENT.

10. ALL GROUNDING WIRES SHALL BE INSTALLED WITHOUT LOOPS (PIGTAILS) AND SHARP BEND RADIUS.



5 / E3 FENCE GATE GROUNDING
NO SCALE

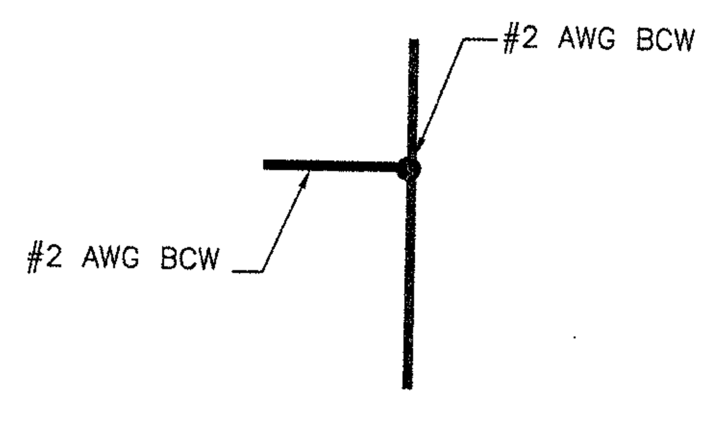
NOTE:

1. THE #2 AWG BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.

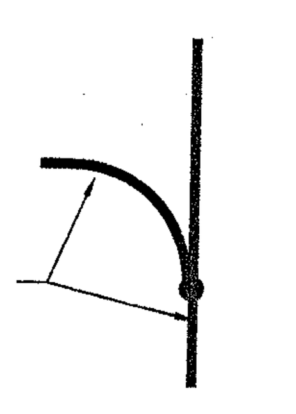
2. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.

3. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FL[illegible] [illegible]RNDY TYPE [illegible] WITH SLEEVES ON EACH END [illegible] EXOTHERMIC WELDING.

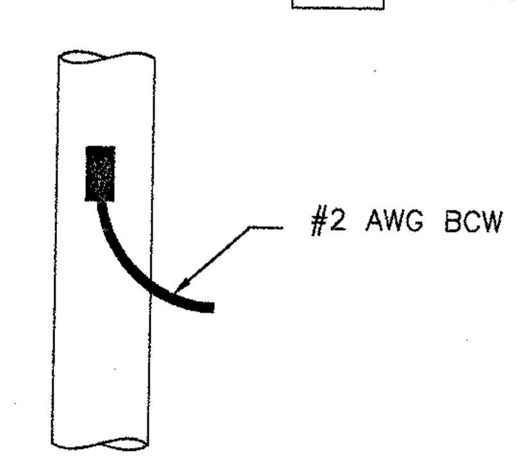
4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.



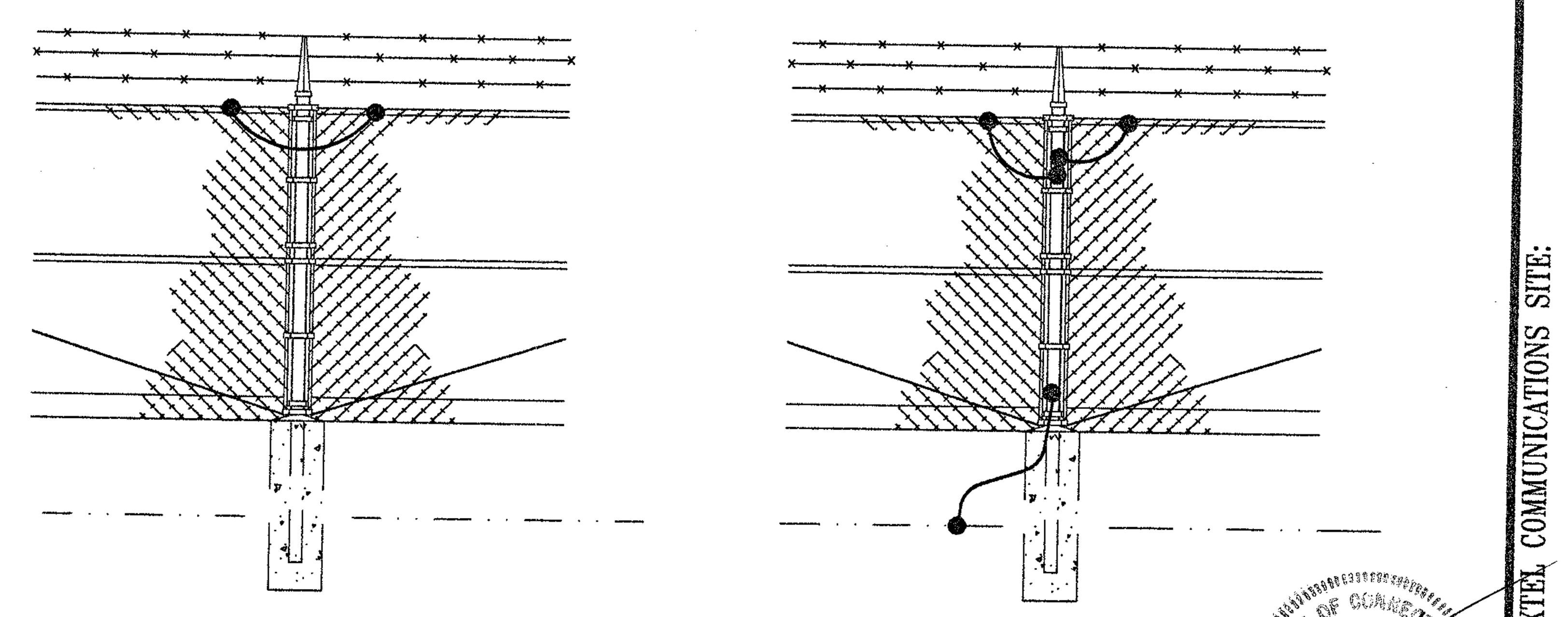
TEE CONNECTION



SWEEP CONNECTION



POST CONNECTION



VERTICAL POST CONNECTED TO RING

VERTICAL POST NOT CONNECTED TO RING

4 / E3 FENCE GROUNDING
NO SCALE

NOTE:

1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.

2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.

3. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING.

Gesick & Associates P.C.
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DATE: 08/13/98 DRAWN BY: RJG
SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.			

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
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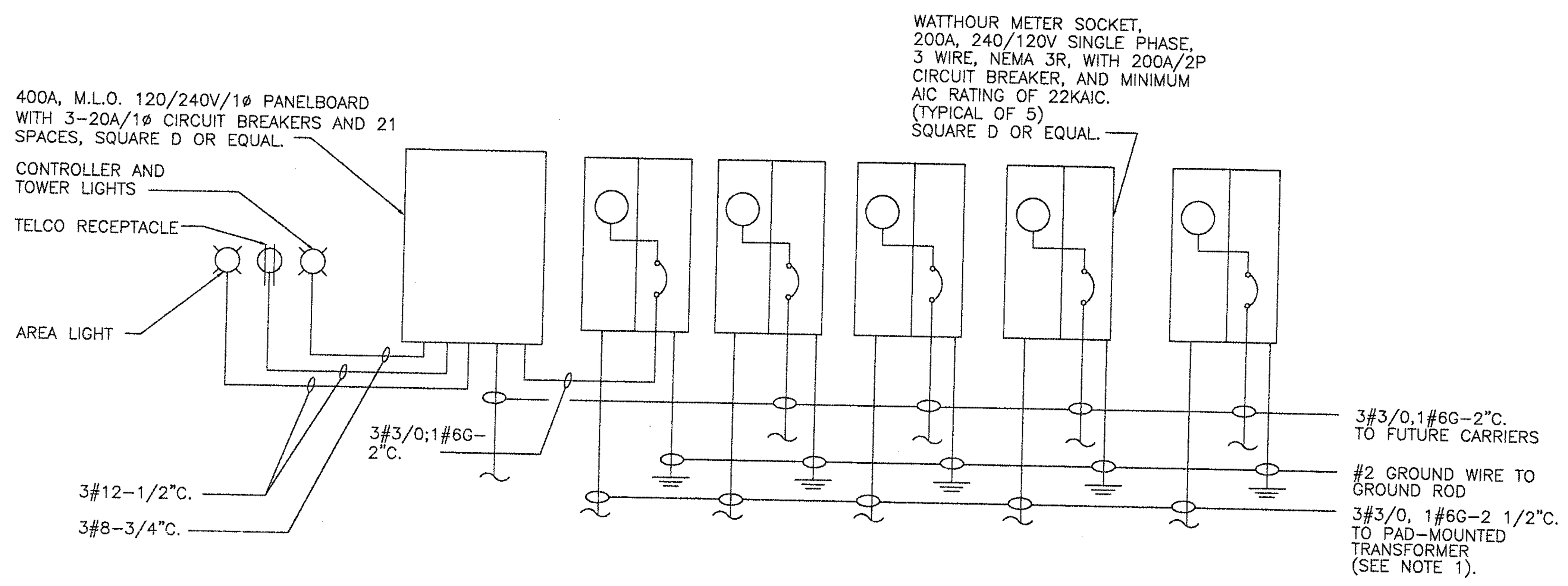
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER

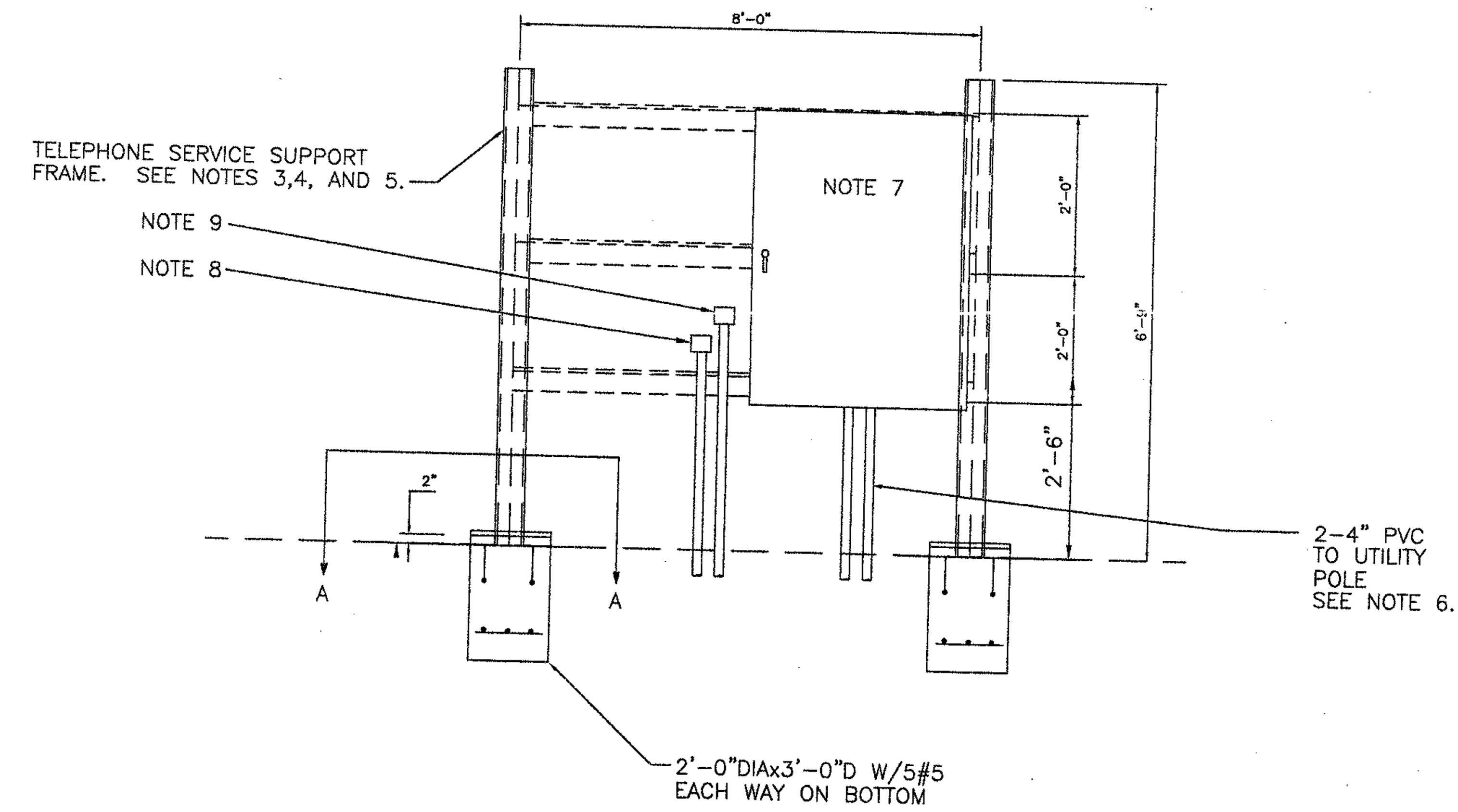
Sheet title:
Electrical Details & Notes

DRAWING E-3



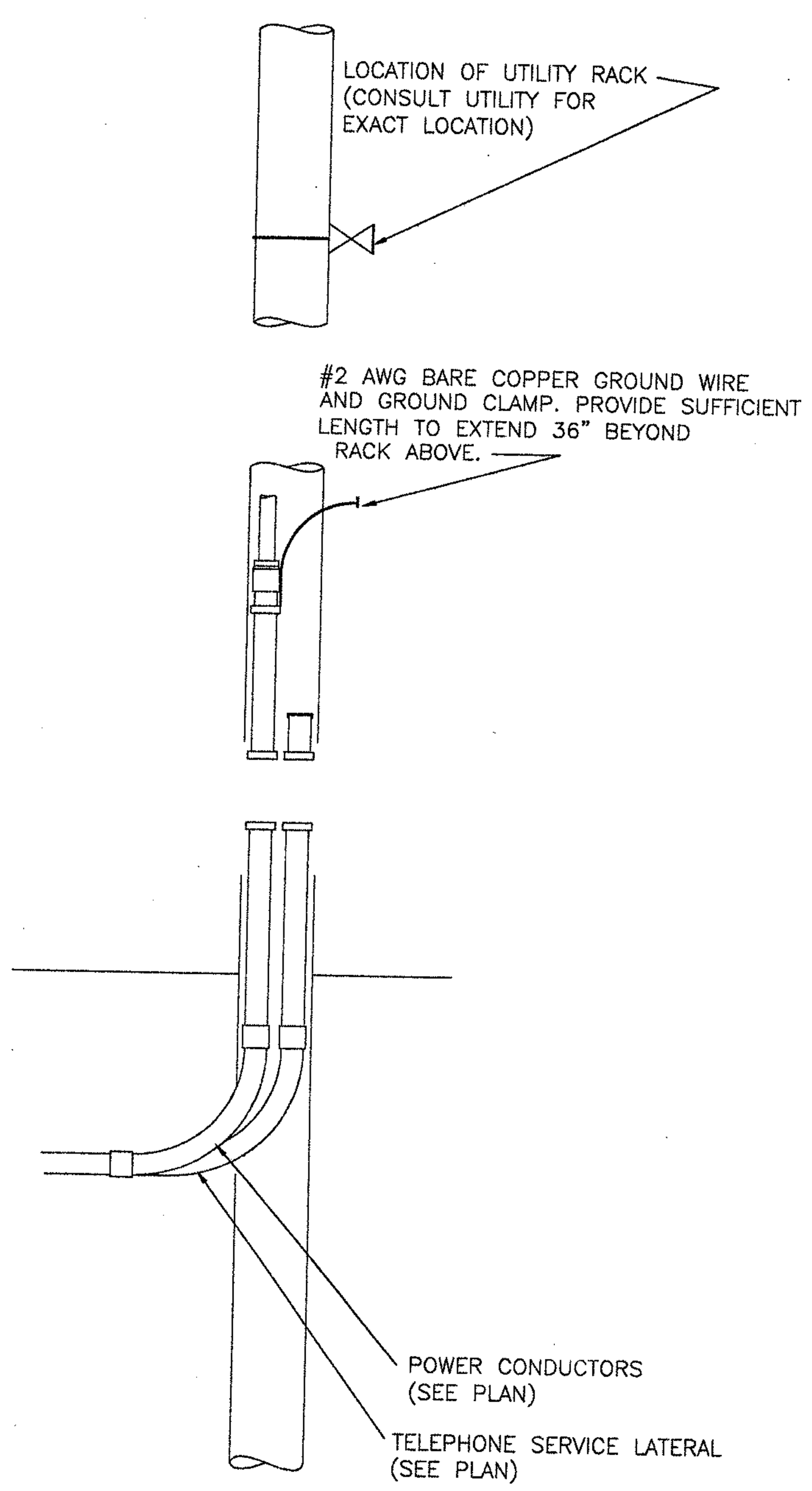
1 / E4 ONE-LINE DIAGRAM
NOT TO SCALE

1. PROVIDE SERVICE AS INDICATED IF SERVICE IS PROVIDED FROM PAD-MOUNTED TRANSFORMER. IF SERVICE IS FROM POLE-MOUNTED TRANSFORMER, PROVIDE CONDUCTORS AS INDICATED UNDERGROUND TO A FLUSH-IN-GRADE ELECTRIC PULLBOX (QUAZITE COMPOSILITE OR EQUAL) SIZED PER NEC. PROVIDE 4"C. WITH PULLWIRE FROM PULLBOX TO UTILITY POLE AND EXTEND UP POLE AS DIRECTED BY UTILITY COMPANY. POWER CO. SHALL PROVIDE CONDUCTORS FROM POLE-MOUNTED TRANSFORMER TO PULLBOX.

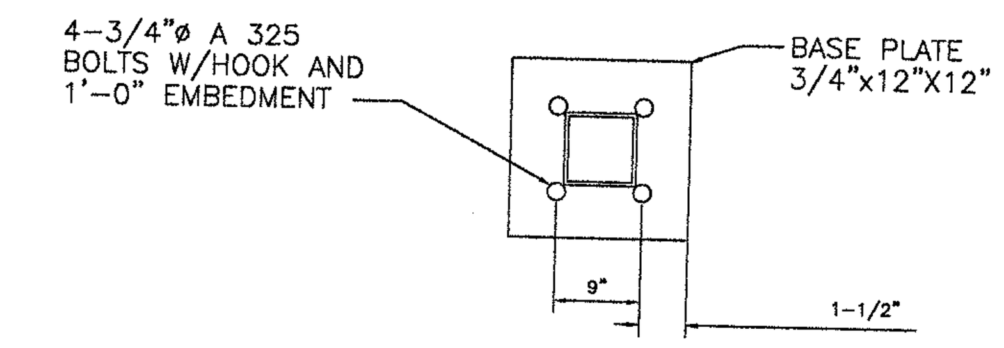


2 / E4 TELEPHONE SUPPORT FRAME DETAIL
NOT TO SCALE

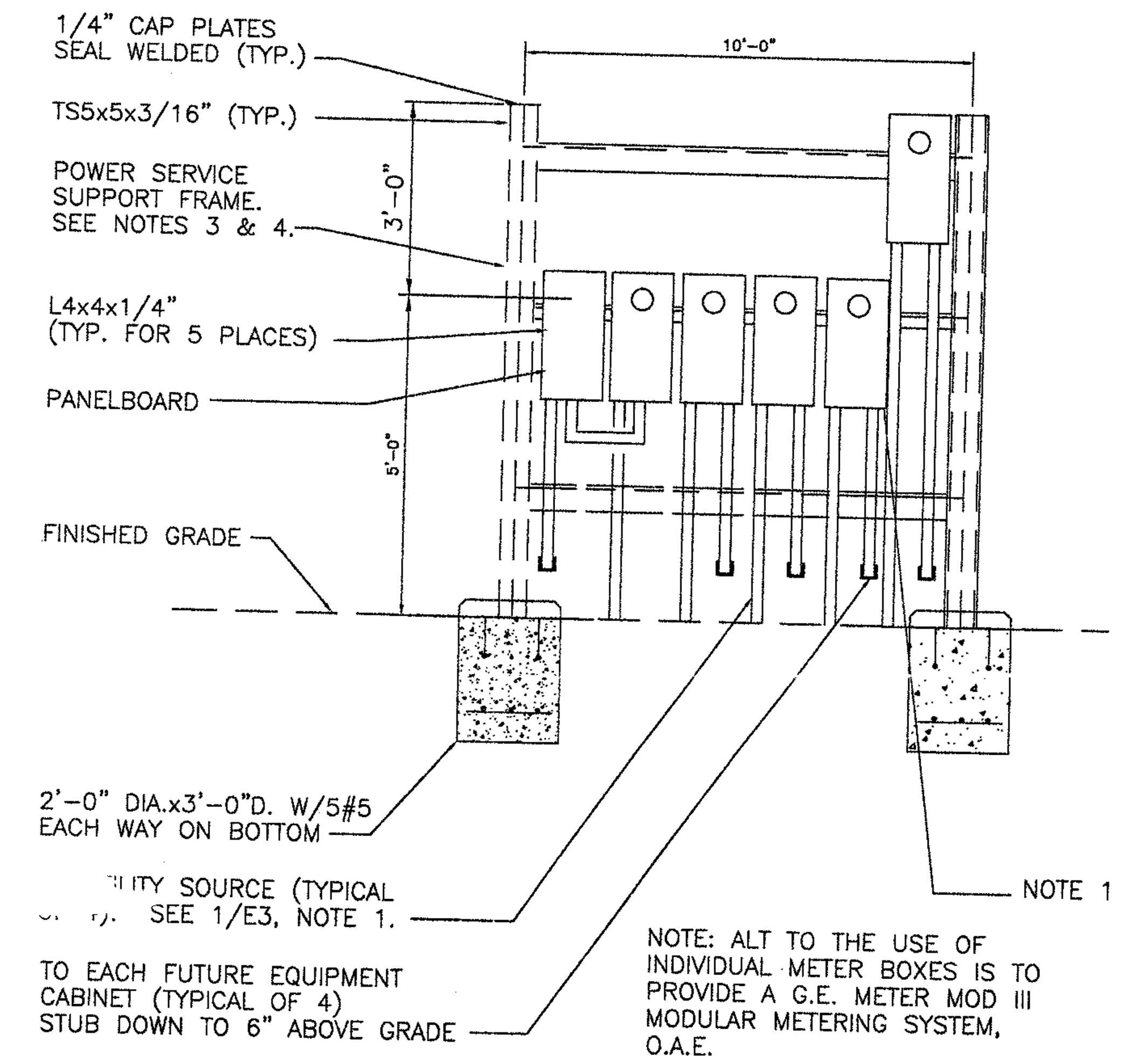
NOTE: ENCLOSURE SHALL FACE FENCE.



4 / E4 INCOMING SERVICE POLE RISER
NOT TO SCALE



DETAIL A-A



3 / E4 POWER SUPPORT FRAME DETAIL
NOT TO SCALE

NOTE: METERS SHALL FACE FENCE. REFER TO 1/E2 FOR CONDUCTOR AND CONDUIT SIZES

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DATE: 08/03/98 DRAWN BY: RJG
SCALE: AS SHOWN

REVISIONS

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G&A PROJECT #98-082B

Sheet title:
Electrical Details & Notes

DRAWING NUMBER: E-4

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.1 SCOPE OF WORK

A. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN.

1.2 DRAWING USE AND INTERPRETATION

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACEWAY ROUTING, ETC., SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR INSTRUCTIONS OF THE ENGINEER AND/OR OWNER'S REPRESENTATIVE.

1.3 COMPLETE SYSTEMS

A. GENERAL: FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL PARTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION. WHETHER SPECIFICALLY INDICATED OR NOT. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO OWNER'S ACCEPTANCE.

B. WIRING: THE WIRING SPECIFIED AND/OR SHOWN. ON THE DRAWINGS IS FOR COMPLETE AND WORKABLE SYSTEMS. ANY DEVIATIONS FROM THE WIRING SHOWN DUE TO A PARTICULAR MANUFACTURER'S OR SUBCONTRACTOR'S REQUIREMENTS SHALL BE MADE AT NO COST TO EITHER THE CONTRACTOR THE OWNER.

1.4 CODES AND REGULATIONS

A. GENERAL: COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) AND ALL GOVERNING FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS. WHERE THE CONTRACT DOCUMENTS EXCEED THESE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN NO CASE SHALL WORK BE INSTALLED CONTRARY TO OR BELOW MINIMUM APPLICABLE STANDARDS.

B. UTILITIES: COMPLY WITH ALL APPLICABLE RULES RESTRICTIONS, AND REQUIREMENTS OF THE UTILITY COMPANIES SERVICING THE PROJECT SITE/ FACILITIES.

1.5 REFERENCE STANDARDS

A. ALL LATEST PUBLISHED STANDARDS OF THE FOLLOWING ASSOCIATIONS/ ORGANIZATIONS SHALL BE FOLLOWED AND APPLIED WHERE APPLICABLE, AS MINIMUM REQUIREMENTS:

1. (ANSI) AMERICAN NATIONAL STANDARDS INSTITUTE
2. (ASTM) AMERICAN SOCIETY FOR TESTING MATERIALS
3. (ETL) ELECTRICAL TESTING LABORATORY
4. (ICEA) INSULATED CABLE ENGINEERS ASSOCIATION
5. (IEEE) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
6. (NBFU) NATIONAL BOARD OF FIRE UNDERWRITERS
7. (NEMA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
8. (NESC) NATIONAL ELECTRIC SAFETY CODE
9. (NFPA) NATIONAL FIRE PROTECTION ASSOCIATION
10. (UL) UNDERWRITER'S LABORATORIES

1.6 PERMITS

A. GENERAL: ALL PERMITS REQUIRED BY ALL APPLICABLE AGENCIES WILL BE OBTAINED BY OWNER.

1.7 SUBMITTAL

A. TYPES: REQUIRED SUBMITTAL INCLUDE: LIST OF SUBCONTRACTORS; PRODUCT DATA; SHOP DRAWINGS.

B. NUMBER OF COPIES PER SUBMITTAL; THREE

C. PRODUCT DATA; SUBMIT FOR ALL BASIC ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS TO BE USED ON THE PROJECT. PRODUCT DATA TO CONSIST OF MANUFACTURER'S STANDARD CATALOG CUTS, DESCRIPTIVE LITERATURE AND/OR DIAGRAMS. IN 8.5" X 11" FORMAT, AND IN SUFFICIENT DETAIL SO AS TO CLEARLY INDICATE COMPLIANCE WITH ALL SPECIFIED REQUIREMENTS AND STANDARDS. MARK EACH COPY TO CLEARLY INDICATE PROPOSED PRODUCT, OPTIONS, FINISHES, ETC.

D. MAINTENANCE MANUALS: INCLUDE OPERATING AND MAINTENANCE DATA. INCLUDE ALL PRODUCT DATA/SHOP DRAWING SUBMITTAL, AS WELL AS DESCRIPTIONS OF MANUFACTURER'S PRINTED OPERATION MAINTENANCE, TROUBLESHOOTING, REPAIR, ADJUSTMENT, AND EMERGENCY INSTRUCTIONS, AND COMPLETE REPLACEMENT PARTS LISTING.

E. SUBMITTAL; SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF GROUNDING ELECTRODES, AND BONDING CONNECTIONS TO STRUCTURE AND OTHER OBJECTS. INCLUDE ELECTRODE. AND CONDUCTOR SIZES, CORROSION PROHIBITING PAINT, AND CONNECTION AND TERMINATION DETAILS.

F. PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL LOCATIONS OF GROUNDING ELECTRODES, BONDING CONNECTIONS, AND ROUTING OF SYSTEM CONDUCTORS.

G. RECORD DOCUMENTS: INDICATE ACTUAL INSTALLED LOCATIONS FOR ALL EQUIPMENT AND DEVICES ROUTING OF MAJOR INTERIOR RACEWAYS, LOCATIONS OF ALL CONCEALED AND UNDERGROUND EQUIPMENT AND RACEWAYS AND ALL APPROVED MODIFICATIONS TO THE CONTRACT DOCUMENTS, AND DEVIATIONS NECESSITATED BY FIELD CONDITIONS AND CHANGE ORDERS.

H. GROUND NETWORK SYSTEM: SEE REQUIREMENTS IN SECTION 2.

1.8 QUALITY ASSURANCE

A. MANUFACTURERS QUALIFICATIONS: NOT LESS THAN THREE YEARS EXPERIENCE IN THE ACTUAL PRODUCTION OF THE SPECIFIED PRODUCTS.

B. INSTALLER'S QUALIFICATIONS: FIRM WITH NOT LESS THAN FIVE YEARS EXPERIENCE, IN THE; INSTALLATION. OF. ELECTRICAL SYSTEMS AND EQUIPMENT SIMILAR IN SCOPE AND COMPLEXITY TO THOSE REQUIRED FOR THIS PROJECT AND HAVING SUCCESSFULLY COMPLETED AT LEAST TEN COMPARABLE SCALE PROJECTS.

C. INCIDENTAL WORK: PAINTING, WELDING, CARPENTRY, MECHANICAL WORK, AND THE LIKE REQUIRED FOR DIVISION 16 WORK SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THE APPROPRIATE TRADE; BUT SHALL BE PROVIDED FOR UNDER DIVISION 16.

1.9 INSPECTIONS

A. GENERAL: DURING AND UPON COMPLETION OF' THE WORK, ARRANGE AND PAY ALL ASSOCIATED COSTS FOR INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT, IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.

1.10 DELIVERY, STORAGE AND HANDLING

A. PACKING AND SHIPPING: DELIVER PRODUCTS IN ORIGINAL, UNOPENED PACKAGING; PROPERLY IDENTIFIED WITH MANUFACTURER'S IDENTIFICATION, AND COMPLIANCE LABELS.

B. STORAGE AND PROTECTION: COMPLY WITH ALL MANUFACTURER'S WRITTEN RECOMMENDATIONS. STORE ALL PRODUCTS IN A MANNER WHICH SHALL PROTECT THEM FROM DAMAGE, WEATHER, AND ENTRY OF DEBRIS.

C. DAMAGED PRODUCTS: DO NOT INSTALL DAMAGED PRODUCTS, REPLACE PROMPTLY.

1.11 ELECTRIC SERVICE

A. AS SHOWN ON DRAWINGS.

1.12 TELEPHONE SERVICE

A. TELEPHONE UTILITY COMPANY: SNET

1. TO BE COORDINATED WITH OWNER AND PER DRAWINGS.

PART 2. PRODUCTS

2.1 GENERAL

A. WHERE SPECIFIED: MATERIALS AND EQUIPMENT SHALL BE AS SPECIFIED HEREIN AND/OR AS INDICATED ON THE DRAWINGS.

B. GENERAL REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND TO THE EXTENT POSSIBLE,:STANDARD PRODUCTS OF;. THE VARIOUS MANUFACTURER'S EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR. ALL MATERIALS AND EQUIPMENT TO BE NEW, CLEAN, UNDAMAGED, AND, FREE OF DEFECTS AND CORROSION.

C. ACCEPTABLE PRODUCTS: THE PRODUCT OF' A SPECIFIED OR APPROVED MANUFACTURER WILL BE ACCEPTABLE ONLY WHEN, THAT PRODUCT COMPILES WITH, OR IS MODIFIED AS NECESSARY TO COMPLY WITH, ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. COMMON ITEMS: WHERE MORE THAN ONE OR ANY SPECIFIC ITEM IS REQUIRED, ALL SHALL BE OF SAME TYPE AND MANUFACTURER.

E. UL LISTING: ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITER'S LISTED FOR SUCH MATERIALS OR EQUIPMENT.

2.3 WIRE CONDUCTORS – 600 VOLT AND BELOW

A. GENERAL SINGLE CONDUCTOR. 98% CONDUCTIVITY, ANNEALED. UNCOATED COPPER CONDUCTORS WITH 600 VOLT RATED TYPE THHN/THWN INSULATION.

B. CONNECTORS: NYLON SHELL INSULATED METALLIC SCREW-ON CONNECTORS FOR #14-10 AWG, AND BOLTED PRESSURE OR COMPRESSION TYPE LUGS AND CONNECTORS WITH INSULATING COVERS FOR #8 AWG AND LARGER.

2.4 EQUIPMENT CONNECTIONS

A. MATERIALS AS SPECIFIED IN THIS SECTION, AND AS REQUIRED.

2.5 HANGERS AND SUPPORTS

A. GENERAL: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC-COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC., AS INDICATED OR REQUIRED,

2.6 ELECTRICAL IDENTIFICATION

A. NAMEPLATES: THREE-LAYER LAMINATED PLASTIC WITH MINIMUM 3/16" HIGH WHITE ENGRAVED CHARACTERS ON BLACK BACKGROUND. AND PUNCHED FOR MECHANICAL FASTENING. FASTENERS: SELF-TAPPING STAINLESS STEEL SCREWS OR NUMBER 10-32 STAINLESS STEEL MACHINE SCREWS WITH NUTS AND FLAT AND LOCK WASHERS.

B. MARKING PENS: PERMANENT, WATERPROOF, QUICK DRYING BLACK INK. ACCEPTABLE MANUFACTURER'S: SANFORD FINE POINT, SHARPIE, OR EQUAL.

C. WIRE TAGS: VINYL OR VINYL CLOTH. SELF ADHESIVE WRAPAROUND TYPE INDICATING APPROPRIATE CIRCUIT NUMBER. ETC.

2.7 SAFETY SWITCHES.

A. GENERAL: HEAVY-DUTY, HORSEPOWER RATED, FULLY ENCLOSED FUSIBLE (WITH REJECTION FUSE CLIPS) OR NON-FUSED AS INDICATED, QUICK-MAKE. QUICK-BREAK SWITCHING MECHANISM INTERLOCKED WITH COVER, AND NEMA 1 ENCLOSURE FOR DRY LOCATIONS, AND NEMA ENCLOSURE FOR OUTDOOR LOCATIONS, UNLESS INDICATED OTHERWISE. SWITCHES TO BE LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, WHERE REQUIRED.

B. RATINGS: VOLTAGE, PHASES, AMPERAGES AND FUSING, AS INDICATED.

C. IN THE FUSED CONFIGURATION. SWITCHES SHALL HAVE AN INTERRUPTING CAPACITY OF AT LEAST 100.000 AMPS SYMMETRICAL AT SIX HUNDRED (600) VOLTS WHEN USED WITH CLASS RK-5 TIME DELAY CURRENT LIMITING FUSES, AND 200,000 AMPERES SYMMETRICAL AT 600 VOLTS WHEN USED WITH CLASS RK-1 CURRENT LIMITING FUSES.

D. GUARDS: LINE SHIELD GUARDS TO PREVENT CONTACT WITH LIVE PARTS.

E. CONTACTS: SILVER ALLOY, SWITCH BLADES SHALL BE DE-ENERGIZED IN THE OPEN POSITION.

F. LUGS: SOLDERLESS TYPE.

G. REJECTION FUSE CLIPS: PROVIDE FOR FUSIBLE SWITCHES (30-600A) TO PREVENT THE INSTALLATION OF CLASS H AND CLASS K NON-CURRENT LIMITING FUSES.

H. ACCEPTABLE MANUFACTURER: GENERAL ELECTRIC. SQUARE D, OR SIEMANS.

2.8 GROUNDING

A. GENERAL: GROUND RODS, CONDUCTORS, CLAMPS AND CONNECTORS, ETC., AS REQUIRED AND AS SHOWN ON DRAWINGS.

2.9 GROUNDING NETWORK SYSTEM

A. SYSTEM DESCRIPTION: GROUNDING NETWORK SYSTEM SHALL ESTABLISH AN EARTH-RESISTANCE TO THE REFERENCE GROUND POINT NOT TO EXCEED 5 (FIVE) OHMS. CONSISTING OF BONDING OF STRUCTURE AND OTHER METAL OBJECT: GROUNDING ELECTRODES; AND INTERCONNECTING CONDUCTORS IN ACCORDANCE WITH GROUNDING PLAN AND DETAILS.

2.10 CIRCUIT BREAKERS

A. GENERAL: MOLDED CASE WITH THERMAL AND MAGNETIC TRIPS, UNLESS INDICATED OTHERWISE. MINIMUM 14,000 AMPS INTERRUPTING CAPACITY HIGHER RATINGS AS INDICATED OR REQUIRED BY AVAILABLE FAULT CURRENT.

2.11 FUSES

A. UL CLASS RK-1 250 VOLT OR 600 VOLT VOLTAGE AS REQUIRED FOR SYSTEM VOLTAGE , DUAL ELEMENT, TIME DELAY, CURRENT LIMITING, 200,000 AIC, AMPERE RATINGS AT INDICATED.

B. ACCEPTABLE MANUFACTURERS: BUSSMAN FUSETRON; OR EQUAL BY GOULD SHAWMUT.

PART 3 EXECUTION

3.1 GENERAL

A. THE INSTALLATION OF ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LETTER AND INTENT OF THE CONTRACT DOCUMENTS, AS DETERMINED BY THE ENGINEER.

B. INSTALLATION REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY THE RESPECTIVE MANUFACTURERS. BY MECHANICS EXPERIENCED AND SKILLED IN THEIR PARTICULAR TRADE, IN A NEAT AND WORKMANLIKE MANNER, IN ACCORDANCE WITH THE STANDARDS OF THE TRADE, AND SO AS NOT TO VOID ANY WARRANTY OR UL LISTING.

C. ADMINISTRATION AND SUPERVISION: ALL ELECTRICAL WORK SHALL BE PERFORMED UNDER THE CONTRACTOR'S DIRECT SUPERVISION, USING SUFFICIENT AND QUALIFIED PERSONNEL AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PROGRESS SCHEDULE.

3.2 EXAMINATION

A. CONDITION VERIFICATION: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND IDENTIFY ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.3 COORDINATION

A. GENERAL: SEQUENCE, COORDINATE, AND INTEGRATE THE INSTALLATION OF ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF WORK, IN CONJUNCTION WITH OTHER TRADES. REVIEW THE DRAWINGS FOR THE WORK OF THE OTHER TRADES AND REPORT AND RESOLVE ANY DISCOVERED DISCREPANCIES PRIOR TO COMMENCING WORK.

B. COOPERATION: COOPERATE WITH THE OTHER CONTRACTORS AND INDIVIDUAL DISCIPLINES FOR PLACEMENT, ANCHORAGE AND ACCOMPLISHMENT OF THE WORK. RESOLVE INTERFERENCES BETWEEN WORK OF THE OTHER DISCIPLINES OR CONTRACTORS, PRIOR TO COMMENCING INSTALLATION.

C. CHASES, SLOTS, AND OPENINGS: ARRANGE FOR CHASES, SLOTS, AND OPENINGS DURING THE PROGRESS OF CONSTRUCTION. AS REQUIRED TO ALLOW FOR INSTALLATION OF THE ELECTRICAL WORK.

D. OBSTACLES AND INTERFERENCES: WHEN INSTALLING EQUIPMENT AND RACEWAYS PROVIDE OFFSETS, FITTINGS, ACCESSORIES AND CHANGES IN ELEVATION OR LOCATION AS NECESSARY TO AVOID OBSTACLES AND INTERFERENCES, PER ACTUAL CONDITIONS.

3.4 DIMENSIONS

A. BUILDING DIMENSIONS: FOR EXACT LOCATIONS OF BUILDING ELEMENTS, REFER TO DIMENSIONED DRAWINGS. HOWEVER FIELD MEASUREMENTS TAKE PRECEDENCE OVER DIMENSIONED DRAWINGS.

B. LIMITING DIMENSIONS: EQUIPMENT OUTLINES SHOWN ON DETAIL DRAWING' OF 1/4' = 1' – 0' SCALE OR LARGER AND DIMENSIONS INDICATED ON THE DRAWINGS ARE LIMITING DIMENSIONS. DO NOT INSTALL EQUIPMENT EXCEEDING DIMENSIONS INDICATED BY OUTLINES ON DRAWINGS, OR EQUIPMENT OR ARRANGEMENTS THAT REDUCE INDICTED CLEARANCES.

3.5 EQUIPMENT PROTECTION

A. PROTECT ALL ELECTRICAL EQUIPMENT AND MATERIALS AND WORK FROM THE WEATHER ELEMENTS, PAINT, MORTAR CONSTRUCTION DEBRIS AND DAMAGE, UNTIL PROJECT IS SUBSTANTIALLY COMPLETE. REPAIR REPLACE, CLEAN ALL ELECTRICAL WORK SO AFFECTED.

3.6 ELECTRICAL INSTALLATION – GENERAL

A. UNFINISHED AND FINISHED AREAS: FOR THE PURPOSE OF THESE ELECTRICAL SPECIFICATIONS. UNFINISHED AREAS SHALL INCLUDE MECHANICAL, ELECTRICAL AND TELEPHONE EQUIPMENT ROOMS. ALL OTHER AREAS SHALL BE CONSIDERED FINISHED SPACES, UNLESS INDICATED OR APPROVED OTHERWISE.

B. IN UNFINISHED AREAS: RACEWAYS, EQUIPMENT AND DEVICES MAY BE INSTALLED, CONCEALED OR EXPOSED, UNLESS INDICATED OTHERWISE.

C. IN FINISHED AREAS: CONCEAL ALL RACEWAY AND FLUSH MOUNT ALL ELECTRICAL BOXES, EQUIPMENT AND DEVICES, UNLESS INDICATED OR APPROVED OTHERWISE. THE SPACE ABOVE SUSPENDED CEILINGS OR BEHIND FURRED SPACES IS CONSIDERED OUTSIDE FINISHED AREAS, AND ELECTRICAL MATERIALS INSTALLED WITHIN THESE AREAS ARE CONSIDERED CONCEALED.

D. MINIMUM MOUNTING HEIGHT: INSTALL EXPOSED RACEWAY AND ALL OTHER ELECTRICAL EQUIPMENT (E.G., LIGHTING FIXTURES) WITH NOT LESS THAN 7'-6" CLEAR TO FINISHED FLOOR, UNLESS INDICATED OR APPROVED OTHERWISE, AND EXCLUDING RACEWAY AND EQUIPMENT MOUNTED ON WALLS.

E. DIMENSIONS AND CLEARANCES: FIELD MEASURE ALL DIMENSIONS AND CLEARANCES AFFECTING THE INSTALLATION OF ELECTRICAL WORK, IN RELATION TO ESTABLISHED DATUM, BUILDING OPENINGS AND CLEARANCES, AND WORK OF OTHER TRADES, AS CONSTRUCTION PROGRESSES.

F. ROUGH-IN LOCATIONS: VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND REQUIREMENTS OF ACTUAL EQUIPMENT BEING INSTALLED.

3.7 LAYOUT

A. GENERAL: INSTALL ELECTRICAL SYSTEMS, MATERIAL AND EQUIPMENT LEVEL AND PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS WHERE INSTALLED EXPOSED.

B. SERVICEABILITY: INSTALL ELECTRICAL EQUIPMENT AND RACEWAYS, ETC., TO READILY FACILITATE SERVICING, MAINTENANCE AND REPAIR OR REPLACEMENTS OF COMPONENTS, AND SO AS TO MINIMIZE INTERFERENCE WITH OTHER EQUIPMENT AND INSTALLATIONS.

C. CLEARANCES: PRIOR TO COMMENCING WORK, VERIFY THAT ALL ELECTRICAL EQUIPMENT WILL ADEQUATELY FIT AND CONFORM TO THE INDICATED AND CODE REQUIRED CLEARANCES IN SPACES INDICATED ON THE DRAWINGS. IF REARRANGEMENT IS REQUIRED, SUBMIT PLAN AND ELEVATION DRAWINGS OR SKETCHES INDICATING PROPOSED REARRANGEMENT FOR THE ENGINEER'S APPROVAL. DO NOT REARRANGE WITHOUT EXPRESS WRITTEN PERMISSION OF THE ENGINEER.

3.8 MOUNTING HEIGHTS

A. GENERAL: INDICATED HEIGHTS ARE MEASURED FROM THE CENTER OF THE DEVICE TO FINISHED FLOOR OR GRADE, UNLESS INDICATED OTHERWISE, REQUEST INSTRUCTIONS FOR MOUNTING HEIGHTS NOT INDICATED.

3.9 HOLES, SLEEVES, AND OPENINGS

A. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF DIVISION 16 WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES. MAINTAIN INTEGRITY OF ALL FIRE AND SMOKE RELATED BARRIERS USING APPROVED FIRE STOPPING SYSTEMS. WHEN CUTTING HOLES OR OPENINGS. OR INSTALLING SLEEVES, DO NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENTS OR REINFORCING STEEL UNLESS APPROVED, IN WRITING, BY THE PROJECT STRUCTURAL ENGINEER.

B. CONDUIT PENETRATIONS: SIZE CORE DRILLED HOLES SO THAT AN [illegible] THAN 1/4" [illegible] MORE THAN 1" IS LEFT AROUND THE CONDUIT WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED. PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" AROUND THE CONDUIT. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACES.

3.10 CUTTING AND PATCHING

A. GENERAL: PROVIDE ALL CUTTING, DRILLING, CHASING FITTING AND PARCHING NECESSARY FOR ACCOMPLISHING THE WORK OF DIVISION 16. THIS INCLUDES ANY AND ALL WORK NECESSARY TO UNCOVER WORK TO PROVIDE FOR THE INSTALLATION OF ILL-TIMED WORK: REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INSTALL EQUIPMENT AND MATERIALS IN EXISTING STRUCTURES; IN ADDITION TO THAT REQUIRED DURING THE NORMAL COURSE OF CONSTRUCTION.

B. BUILDING STRUCTURE: DO NOT ENDANGER THE INTEGRITY OF THE BUILDING STRUCTURE BY CUTTING, DRILLING OR OTHERWISE MODIFYING ANY STRUCTURAL MEMBER WITHOUT SPECIFIC APPROVAL. DO NOT PROCEED WITH ANY STRUCTURAL MODIFICATION WITHOUT WRITTEN PERMISSION OF THE PROJECT STRUCTURAL ENGINEER.

C. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS USING SKILLED MECHANICS OF THE TRADES INVOLVED.

3.11 RACEWAY SYSTEMS

A. RACEWAY TYPES: UNLESS INDICATED OTHERWISE, USE RACEWAY TYPES AS FOLLOWS:

1. INDOORS CONCEALED IN WALLS OR ABOVE CEILING: EMT
2. INDOORS, EXPOSED: USE RIGID GALVANIZED STEEL CONDUIT BELOW TEN FEET ABOVE FINISHED FLOOR. EMT MAY BE USED ABOVE TEN FEET.
3. OUTDOORS, EXPOSED: RIGID GALVANIZED STEEL CONDUIT.
4. FLEXIBLE STEEL CONDUIT: USE (IN DRY LOCATIONS ONLY) FOR CONNECTIONS TO TRANSFORMERS, VIBRATING EQUIPMENT, AND EQUIPMENT REQUIRING MINOR ADJUSTMENT POSITIONS FOR FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES, AND BETWEEN OUTLET BOXES IN METAL STUD PARTITIONS.
5. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT: USE WHERE FLEXIBLE STEEL CONDUIT CONNECTIONS ARE REQUIRED IN DAMP WET OR OILY LOCATIONS, AND FOR FINAL ONNECTIONS TO ALL MOTORS AND SIMILAR EQUIPMENT.
6. RACEWAY ROUTING: AS REQUIRED BY JOB CONDITIONS. UNLESS SPECIFIC ROUTS OR DIMINISHED POSITIONS ARE INDICATED ON THE DRAWINGS. INSTALL TIGHT TO SLABS, INSTALLED ABOVE CEILINGS, PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS AND STRUCTURAL MEMBERS. INSTALL TO MAINTAIN MINIMUM HEADROOM, AND TO PRESENT A NEAT APPEARANCE. RUN PARALLEL RACEWAYS TOGETHER WITH BENDS MADE FROM SAME CENTERLINE. VERIFY EXACT LOCATIONS OF ALL RACEWAYS, PULL BOXES, AND JUNCTION BOXES, RESOLVE ANY CONFLICTS BEFORE INSTALLATION.

B. RACEWAY INSTALLATION, CUT CONDUIT ENDS SQUARE USING SAW OR PIPECUTTER AND REAM EACH CUT END SMOOTH. CAREFULLY MAKE ALL CONDUIT BENDS AND OFFSETS SO THAT THE INSIDE DIAMETER OF PIPE IS NOT REDUCED.

D. PROTECTION: PROTECT ALL RACEWAYS, ENCLOSURES AND EQUIPMENT DURING CONSTRUCTION TO PREVENT ENTRY OF CONCRETE, DEBRIS AND OTHER FOREIGN MATTER. FREE CLOGGED CONDUITS OR ALL OBSTRUCTIONS OR REPLACE, PRIOR TO PULLING WIRE. DO NOT PULL WIRE WITHIN BUILDINGS UNTIL BUILDINGS ARE COMPLETELY ENCLOSED.

E. BOXES: INSTALL ALL OUTLET, PULL AND JUNCTION BOXES RIGIDLY, PLUMB AND LEVEL, SUPPORT AND SECURE BOXES INDEPENDENTLY FROM ,CONDUITS TERMINATING AT BOX. INSTALL ALL BOXES SO AS TO BE ACCESSIBLE AND SO THAT COVERS MAY BE EASILY REMOVED.

F. CONDUIT SEALS: INSTALL CONDUIT SEAL FOR EACH CONDUIT PENETRATING AN EXTERIOR WALL BELOW GRADE (UNLESS PENETRATION IS BELOW LOWEST BUILDING FLOOR SLAB), AND ELSEWHERE AS INDICATED, AND SO AS TO ACHIEVE A SEALED WATERTIGHT INSTALLATION.

3.12 CONDUCTORS – 600 VOLT AND BELOW

A. MINIMUM CONDUCTOR SIZE: ALL BRANCH CIRCUIT WIRING SHALL BE MINIMUM #12 AWG. ALL CONTROL CIRCUIT WIRING SHALL BE MINIMUM #14 AWG, UNLESS INDICATED OTHERWISE. PROVIDE LARGER SIZES AS INDICATED OR REQUIRED.

B EQUIPMENT GROUNDING CONDUCTOR REQUIRED: FOR EACH BRANCH CIRCUIT AND FEEDER RUN, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR CONTINUOUS LENGTH OF RUN, SIZED PER NEC 250-95 (MINIMUM) LARGER, IF SO INDICATED.

C. FEEDERS: PROVIDE FEEDER CONDUCTOR SIZES AND QUANTITIES AS INDICATED.

D. IN RACEWAY: INSTALL ALL WIRING IN CONDUIT OR OTHER SPECIFIED RACEWAY UNLESS INDICATED OTHERWISE.

E. TERMINATIONS: FURNISH AND INSTALL TERMINATIONS INCLUDING LUGS, IF NECESSARY, TO MAKE ALL ELECTRICAL CONNECTIONS INDICATED OR REQUIRED. MAKE CONNECTIONS AND TERMINATIONS FOR ALL STRAND CONDUCTORS USING CRIMP, CLAMP, OR BOX TYPE CONNECTORS AND TERMINATORS. ENCLOSE ALL STRANDS OF STRANDED CONDUCTORS IN CONNECTORS. AND LUGS.

F. COLOR CODE: COLOR CODE ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS AS FOLLOWS:

1. 240/120 VOLTS:
208/120 VOLTS

PHASE	COLOR
A	BLACK
B	RED
NEUTRAL	WHITE

2. EQUIPMENT GROUNDING CONDUCTORS: GREEN

B. EQUIPMENT VARIATIONS: NOTE THAT EQUIPMENT SIZES AND CAPACITIES AS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR BIDDING PURPOSES AND AS SUCH MAY NOT BE THE EXACT UNIT ACTUALLY FURNISHED. CONTRACTOR SHALL ANTICIPATE MINOR VARIATIONS IN EQUIPMENT AND SHALL INCLUDE IN HIS BID ALL COSTS REQUIRED TO PROPERLY CONNECT THE EQUIPMENT ACTUALLY FURNISHED.

C. VERIFICATION; OBTAIN AND REVIEW SHOP DRAWINGS, PRODUCT DATA AND MANUFACTURER'S INSTRUCTIONS FOR EQUIPMENT FURNISHED BY OTHERS. EXAMINE ACTUAL EQUIPMENT TO VERIFY PROPER CONNECTION LOCATIONS AND REQUIREMENTS.

D. COORDINATION: SEQUENCE ELECTRICAL ROUGH-IN AND FINAL CONNECTONS TO COORDINATE WITH INSTALLATION AND START-UP SCHEDULE AND WORK BY OTHER TRADES.

E. ROUGH-IN: PROVIDE ALL REQUIRED CONDUIT, BOXES, FITTINGS, WIRE, CONNECTORS AND MISCELLANEOUS ACCESSORIES, ETC., AS NECESSARY TO ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

F. CONNECTIONS: PROVIDE PROPERLY SIZED OVERLOAD AND SHOP CIRCUIT PROTECTION FOR ALL EQUIPMENT CONNECTED, WHETHER FURNISHED UNDER THIS CONTRACT OR BY OTHERS. VERIFY PROPER CONNECTIONS WITH MANUFACTURER'S PUBLISHED DIAGRAMS AND COMPLY WITH SAME. VERIFY THAT EQUIPMENT IS READY FOR ELECTRICAL CONNECTIONS, WIRING AND ENERGIZATION PRIOR TO PERFORMING SAME.

G. CONTROL WIRING: PROVIDE ALL CONTR[illegible]NG TO REMOTE DEVICES OR EQUIPMENT AS INDICATED OR REQUIRED. MODIFY EQUIPMENT CONTROL WIRING. INSTALL OR DISCONNECT JUMPERS, ETC., [illegible]RED.

3.13 ELECTRICAL IDENTIFICATION

A. GENERAL: LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE OF EQUIPMENT OR BOX FRONT COVERS WHEN ABOVE CEILING AND WHEN IN MECHANICAL OR ELECTRICAL EQUIPMENT ROOMS OR OTHER UNFINISHED AREAS, AND ON INSIDE OR FRONT COVER WHEN IN FINISHED ROOMS/AREAS. USE CONTRACT DOCUMENT DESIGNATIONS FOR IDENTIFICATION UNLESS INDICATED OTHERWISE.

B. NAMEPLATE: PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION SWITCH, PANELBOARD, TRANSPORTER, MOTOR STARTER, AND ALL OTHER ELECTRICAL CABINETS, ETC.

C. MARKING PEN LABELING: MARK EACH JUNCTION AND PULL BOX INDICATING SOURCE DESIGNATION AND CIRCUIT NUMBER(S) FOR THE ENCLOSED CONDUCTORS.

D. WIRE TAGS: FOR POWER CIRCUITS, APPLY WIRE TAG INDICATING APPROPRIATE CIRCUIT FEEDER NUMBER TO EACH CONDUCTOR PRESENT IN DISTRIBUTION PANEL AND PANELBOARD GUTTERS, AND TO EACH CONDUCTOR IN PULL AND JUNCTION BOXES WHERE MORE THAN ONE FEEDER OR MULTI-WIRE BRANCH CIRCUIT IS PRESENT. WHERE ONLY A SINGLE FEEDER OR MULTI-WIRE BRANCH CIRCUIT IS PRESENT, BOX COVER LABELING AND CONDUCTOR COLOR-CODING IS SUFFICIENT FOR CONTROL COMMUNICATIONS AND SIGNAL CIRCUITS, APPLY WIRE TAG INDICATING CIRCUIT OR TERMINATION NUMBER AT ALL TERMINATIONS AND AT ALL INTERMEDIATE LOCATIONS AND BOXES WHERE MORE THAN ONE CIRCUIT IS PRESENT.

3.14 ELECTRIC SERVICES

A. GENERAL: ARRANGE WITH THE BUILDING FACILITY, MANAGER AND COORDINATE PAYMENT OF ALL ASSOCIATED COSTS FOR PROVIDING TEMPORARY ELECTRIC SERVICE (IF REQUIRED) AND PERMANENT ELECTRIC SERVICE FOR THE PROJECT AS INDICATED AND REQUIRED. COMPLY WITH AND COORDINATE ALL REQUIREMENTS OF THE APPLICABLE CODES AND STANDARDS.

B. GROUNDING: PROVIDE GROUNDING ELECTRODE SYSTEM FOR THE SERVICE, PER THE NEC AND APPLICABLE STANDARDS.

3.15 GROUNDING

A. GENERAL: PROVIDE ALL SYSTEM AND EQUIPMENT GROUNDING AS INDICATED AND AS REQUIRED BY THE NEC AND APPLICABLE STANDARDS.

B. EQUIPMENT GROUNDING: PROVIDE A GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC 225-95 (LARGER, IF SO INDICATED) WITH EACH FEEDER AND BRANCH CIRCUIT RUN.

C. PROVIDE EXOTHERMIC WELDED CONNECTIONS WHERE REQUIRED.

3.16 TELEPHONE SERVICE ENTRANCE

A. GENERAL: ARRANGE PER OWNER DIRECTION WITH THE LOCAL TELEPHONE COMPANY AND COORDINATE PAYMENT OF ALL ASSOCIATED COSTS FOR PROVIDING TELEPHONE SERVICE AS INDICATED AND REQUIRED. INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY RULES AND REGULATIONS.

3.17 NETWORK GROUNDING SYSTEM

A. EXAMINATION

1. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK.
2. VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON THE SHOP DRAWINGS.
3. BEGINNING OF INSTALLATION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

B. INSTALLATION: INSTALL AS INDICATED ON THE DRAWINGS AND AS REQUIRED.

1. GROUNDING NETWORK SYSTEM SHALL INCLUDE ELECTRICAL GROUNDING WIRE AND ALL NECESSARY MATERIALS AND LABOR REQUIRED TO COMPLETE THE SPECIFIED SYSTEM.
2. ALL WELDED GONNECTONS SHALL BE HEAVY-DUTY .EXOTHERMIC TYPE PROTECTED FROM CORROSION WITH AN APPROVED METHOD.
3. ALL CLAMP CONNECTIONS SHALL BE MADE ACCESSIBLE FOR INSPECTION.
4. GROUNDING WIRE BENDS SHALL BE CONSISTENT WITH NEC AND APPLICABLE STANDARDS.
5. PROVIDE CORROSION PROOFING PAINT ON SURFACES EXPOSED DURING INSTALLATION.

C. FIELD QUALITY CONTROL: FIELD INSPECTION AND TESTING WILL BE PERFORMED AS REQUIRED:

1. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING NETWORK SYSTEM. SYSTEM SHALL BE TESTED AT THE TIME OF INSTALLATION.
2. APPROPRIATE DEVICES SHALL BE USED FOR EARTH-RESISTANCE TESTING.
3. TESTING SHALL BE CONDUCTED UNDER THE OBSERVATION OF THE OWNER'S REPRESENTATIVE.
4. THE GROUNDING NETWORK SYSTEM TEST PROCEDURE SHALL COMPLY WITH NFPA 78 THREE POINT TECHNIQUE FOR GROUND RESISTANCE, EXCEPT AS MODIFIED HEREIN.
5. COPIES OF THE TEST RESULTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE.

3.18SURGE SUPPRESSION

A. INTEGRAL WITH DEVICES BEING INSTALLED OR AS INDICATED. FINAL CONNECTION BY CABINET INSTALLERS.

B. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH AND POWER CABINET.

3.19 SYSTEMS DEMONSTRATION

A. INSTRUCT THE OWNER'S REPRESENT[illegible] IN THE START-UP OPERATION AND MAINTENANCE OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT AS REQUESTED BY THE OWNER'S REPRESENTATIVE.

B. ELECTRICAL EQUIPMENT: REMOVE ALL DUST, DIRT, DEBRIS, MORTAR, WIRE SCRAPS, RUST AND OTHER FOREIGN MATERIALS FROM THE INTERIOR AND EXTERIOR OF ALL ELECTRICAL EQUIPMENT AND ENCLOSURE AND WIPE DOWN. CLEAN ACCESSIBLE CURRENT CARRYING ELEMENTS AND INSULATORS PRIOR TO ENERGIZING.

C. TOUCH-UP PAINTING: RESTORE AND REFINISH TO ORIGINAL CONDITION, ALL SURFACES OF ELECTRICAL EQUIPMENT SCRATCHED, MARRED AND/OR DENTED DURING SHIPPING, HANDLING, OR INSTALLATION REMOVE ALL RUST, AND PRIME AND PAINT AS RECOMMENDED BY THE MANUFACTURER.

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER

Gesick & Associates P.C.
SURVEYORS & ENGINEERS
19 Cedar Island Ave.
Clinton, CT 06413
(860) 669-7799
FAX (860) 669-5833
e-mail Gesick@aol.com

DATE: 08/03/98 DRAWN BY: RJG

SCALE: AS SHOWN

REVISIONS

#	DATE	DESCRIPTION	INITIAL
1.	08/16/98	MISC. DETAILS	RJG

NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
100 CORPORATE PLACE
ROCKY HILL, CONNECTICUT 06067
(860) 513-5400 FAX (860) 513 5444

NEXTEL COMMUNICATIONS SITE:
#0767 HARTFORD NORTH
305 WEST SERVICE ROAD
HARTFORD, CONNECTICUT

G&A PROJECT #98-082B

Sheet title:
Electrical Specifications

DEPT. OF ... & INSPECTIONS
CITY OF HARTFORD
3/2/99

DRAWING NUMBER: ES-1

MJ Umali, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568-7906
MUmali@centerlinecommunications.com

September 21, 2021

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

RE: Notice of Exempt Modification // Site: HARTFORD NORTH CT (ATC: 302466)
305 W. Service Road, Hartford, CT 06120
N 41.7995 // W 72.6567

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains 9 antennas at the 115-ft level on the existing 147.9-foot monopole tower, located at 305 W. Service Road, Hartford, CT. The tower is owned by American Tower. The property is also owned by 305 West Services Rd Assoc LLC. Verizon Wireless now intends to remove 3 antennas and install 3 new ones for the LTE (3700 MHz) replacements for its 5G upgrade. Altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

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 Luke Bronin, Mayor of Hartford, its Director of Planning, Aimee Chambers, the tower owner, American Tower, and the property owner, 305 West Services Rd Assoc LLC.

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 August 6, 2021, by CLS Engineering, PLLC., a structural analysis dated July 6, 2021, by A.T. Engineering, PLLC., and a structural mount analysis by Maser Consulting Connecticut date July 2, 2021, and radio frequency (RF) analysis table showing worst-case ,RF emission calculation by Verizon Wireless RF Design Engineering.

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 by A.T. Engineering, PLLC, dated July 6, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated July 2, 2021, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings, signed and stamped dated August 6, 2021.

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,

MJ Umali

_____

MJ Umali, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568-7906
MUmali@centerlinecommunications.com

Attachments

cc: Luke Bronin, Mayor of Hartford – Chief Elected Official
Aimee Chambers, Director of Planning - as P&Z official
American Tower Corporation - as tower owner
305 West Services Rd Assoc LLC. - as ground owner

UPS CampusShip: View/Print Label

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TOWN LINE GENERAL STORE
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WEST BRIDGEWATER ,MA 02379

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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number
1Z9Y45030304745587

Weight
1.00 LBS

Service

UPS Ground

Shipped / Billed On
08/31/2021

Delivered On

09/28/2021 10:03 A.M.

Delivered To
550 MAIN ST
HARTFORD, CT, 06103, US

Received By

REL 305

Left At
Met Customer

Reference Number(s)
WEST SERVICE ROAD, 302466

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 09/28/2021 10:57 A.M. EST

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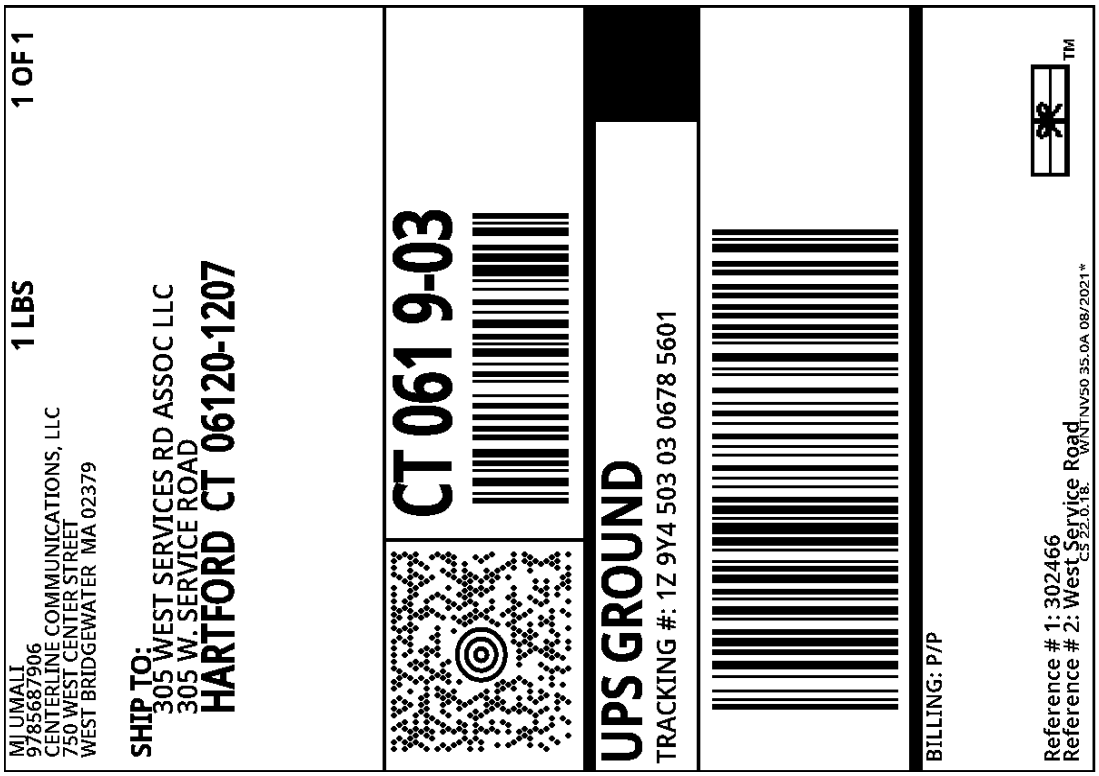

Your shipment from

CENTERLINE SITE ACQUISITION

Estimated delivery

Tuesday, September 28 between 10:45 A.M. - 1:45 P.M.

Label Created

Shipped

Out for Delivery

Delivery

Ship To

305 WEST SERVICES RD ASSOC LLC
305 W. SERVICE ROAD
HARTFORD, CT 061201207 US

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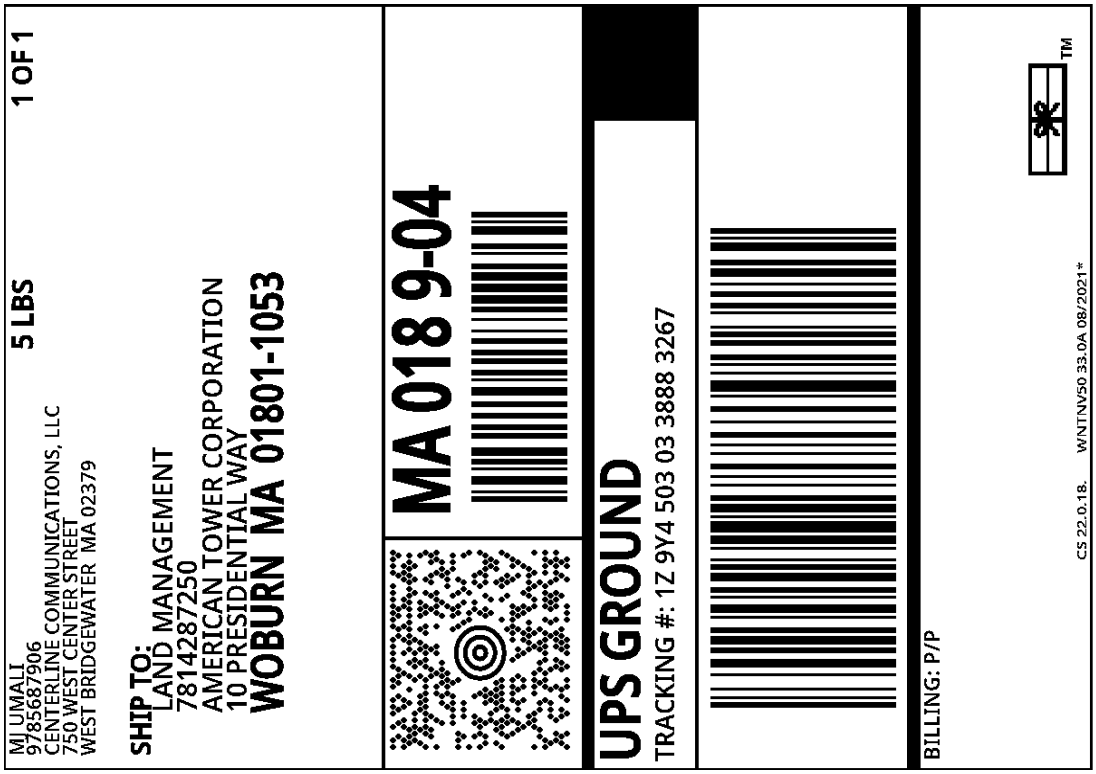


AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**147.9 ft Monopole**
ATC Site Name	:	**West Service Road, CT**
ATC Asset Number	:	**302466**
Engineering Number	:	**13668983_C3_04**
Proposed Carrier	:	**VERIZON WIRELESS**
Carrier Site Name	:	**HARTFORD NORTH CT**
Carrier Site Number	:	**467518**
Site Location	:	**305 W. Service Rd.** **Hartford, CT 06120-0001** **41.799500,-72.656700**
County	:	**Hartford**
Date	:	**July 6, 2021**
Max Usage	:	**69%**
Result	:	**Pass**

Prepared By:
Kyle MacPetrie
Structural Engineer I

Reviewed By:

COA: PEC.0001553

AMERICAN TOWER®
CORPORATION

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 147.9 ft monopole to reflect the change in loading by .

Supporting Documents

Tower Drawings	FWT Job #18053, dated September 10, 1998
Foundation Drawing	FWT Job #18054, dated September 10, 1998
Geotechnical Report	Gibble Norden Champion Project #98134.09, dated September 8, 1998

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:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1 1/2" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	Ss = 0.19, S_1 = 0.05
Site Class:	D - Stiff Soil

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 via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
151.0	8	Andrew DB844H90E-XY	Triangular Platform with Handrails	(12) 1 1/4" Coax	SPRINT NEXTEL
	4	Andrew 844G65VTZASX			
138.0	9	Generic 48" x 4" Panel	Triangular Low Profile Platform	(9) 1 5/8" Coax	AT&T MOBILITY
125.0	3	Ericsson Air6449 B41	T-Arm	(3) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	3	Ericsson AIR32 B66Aa/B2a			
	3	Ericsson RRUS 4415 B25			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson KRY 112 144/1			
	3	Ericsson Radio 4449 B71 B85A			
115.0	6	Commscope SBNHH-1D65B	Triangular Low Profile Platform	(2) 1 5/8" (1.63"-41.3mm) Fiber (6) 1 5/8" Coax	VERIZON WIRELESS
107.0	1	Antel BCD-87010 ___ 25	Stand-Off	(1) 7/8" Coax	SENSUS USA INC.
100.0	3	Commscope NNVV-65B-R4	T-Arm	(3) 1 1/4" Hybriflex Cable	CLEARWIRE CORPORATION
	3	Alcatel-Lucent 1900MHz RRH (65MHz) w/ solar shield			
	6	Alcatel-Lucent RRH2x50-08			
90.0	1	Generic 18" x 18" x 4" Junction Box	T-Arm	(1) 1.7" (43.2mm) Hybrid (2) 1/2" Coax (2) 2" conduit (6) 5/16" (0.31"-7.9mm) Coax	
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	2	Andrew VHLP2-18			
	3	NextNet BTS-2500			
	2	DragonWave A-ANT-18G-3-C			
	2	DragonWave Horizon Compact			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
115.0	3	Samsung PCS/AWS Dual Band RRH	-	-	VERIZON WIRELESS
	3	Samsung 700/850MHz Dual Band RRH			
	6	Amphenol Antel BXA-70063-6CF-EDIN-X			
	1	RFS DB-T1-6Z-8AB-0Z			
	1	Raycap RVZDC-6627-PF-48			

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
115.0	2	Raycap RCMDC-6627-PF-48	Triangular Low Profile Platform		VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung MT6407-77A			
	2	Amphenol Antel BXA-70063-6CF-EDIN-4			
	1	Amphenol Antel BXA-70063-6CF-EDIN-2			

[1]Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

AMERICAN TOWER®
CORPORATION

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC 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:

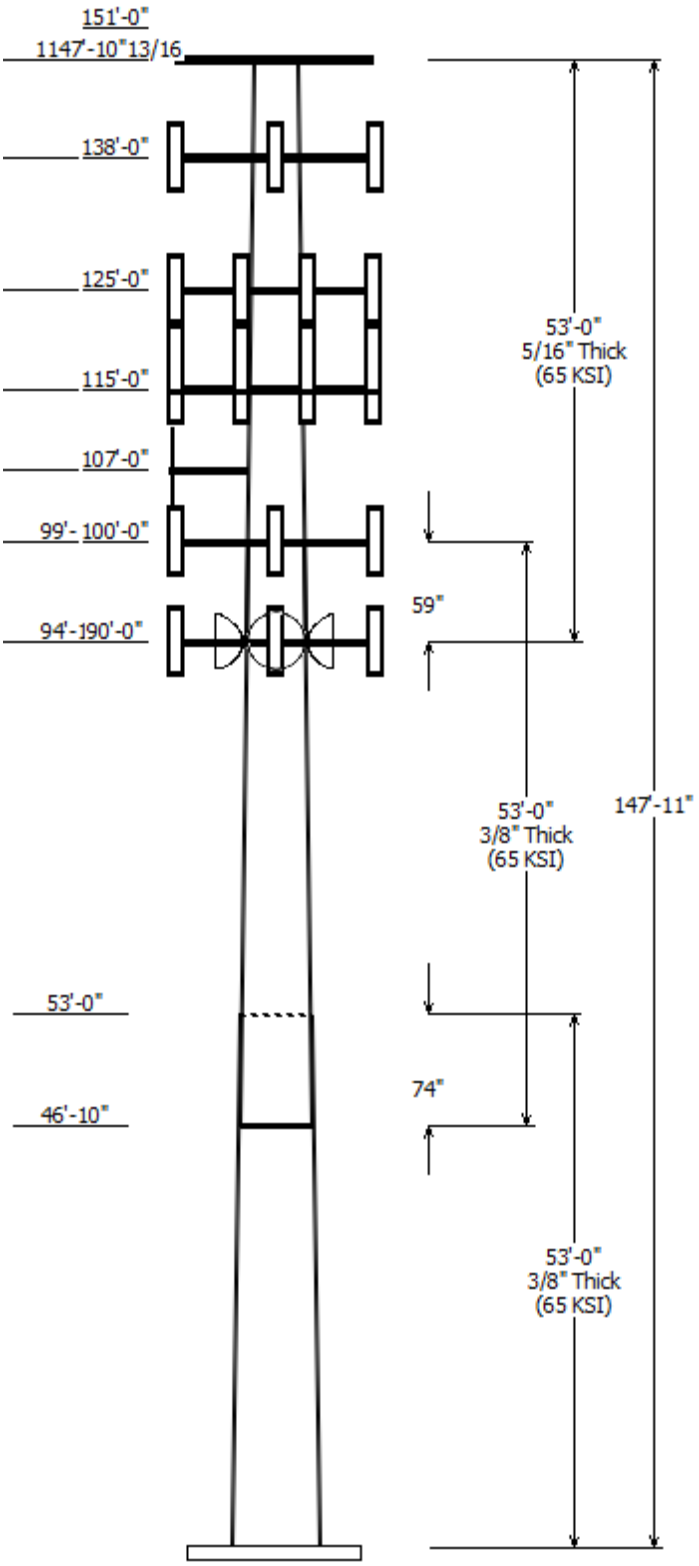
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC 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 Service, PLLC, 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 Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Job Information

Client :	VERIZON WIRELESS		
Pole :	302466	Code:	ANSI/TIA-222-H
Location :	West Service Road, CT		
Description :		Risk Category :	II
Shape :	18 Sides	Exposure :	C
Height :	147.92 (ft)	Topo Method :	Method 1
Base Elev (ft):	0.00	Topographic Category :	1
Taper:	0.214564 (in/ft)		

Sections Properties

Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	53.000	45.20	56.58	0.375		0.000	18 Sides	65
2	53.000	35.90	47.28	0.375	Slip Joint	74.000	18 Sides	65
3	53.000	26.21	37.58	0.313	Slip Joint	59.000	18 Sides	65

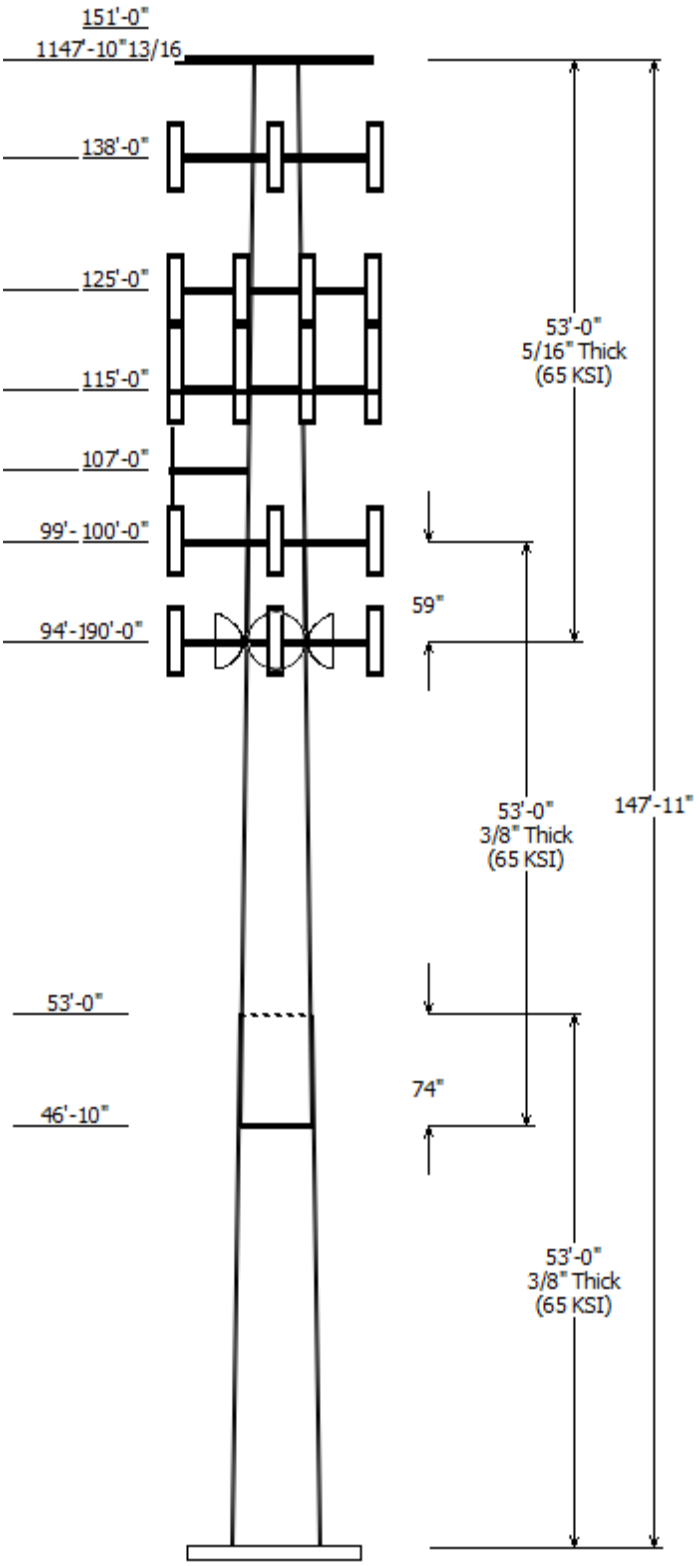
Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
151.000	151.000	4	Andrew 844G65VTZASX
151.000	151.000	8	Andrew DB844H90E-XY
147.900	147.900	1	Flat Platform w/ Handrails
138.000	138.000	1	Flat Low Profile Platform
138.000	138.000	9	Generic 48" x 4" Panel
125.000	125.000	3	Round T-Arm
125.000	125.000	3	RFS APXVAARR24_43-U-NA20
125.000	125.000	3	Ericsson AIR32 B66Aa/B2a
125.000	125.000	3	Ericsson AIR 21, 1.3M, B2A B4P
125.000	125.000	3	Ericsson Air6449 B41
125.000	125.000	3	Ericsson RRUS 4415 B25
125.000	125.000	3	Ericsson Radio 4449 B71 B85A
125.000	126.000	3	Ericsson KRY 112 144/1
115.000	115.000	1	Generic Flat Low Profile Platf
115.000	116.000	6	Commscope SBNHH-1D65B
115.000	115.000	2	Amphenol Antel BXA-70063-
115.000	115.000	1	Amphenol Antel BXA-70063-
115.000	115.000	3	Samsung MT6407-77A
115.000	115.000	2	Raycap RCMDC-6627-PF-48
115.000	115.000	3	Samsung B5/B13 RRH-BR04C
115.000	115.000	3	Samsung B2/B66A RRH-BR049
107.000	107.000	1	Generic Flat Stand-Off
107.000	107.000	1	Antel BCD-87010 ___ 25
100.000	100.000	3	Generic Round T-Arm
100.000	100.000	3	Alcatel-Lucent 1900MHz RRH
100.000	100.000	6	Alcatel-Lucent RRH2x50-08
100.000	100.000	3	Commscope NNVV-65B-R4
90.000	90.000	3	Generic Round T-Arm
90.000	90.000	2	DragonWave A-ANT-18G-3-C
90.000	90.000	2	Andrew VHLP2-18
90.000	90.000	3	Nokia 2.5G MAA -
90.000	90.000	1	Generic 18" x 18" x 4" Junctio
90.000	90.000	3	NextNet BTS-2500
90.000	90.000	2	DragonWave Horizon Compact

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
5.000	90.000	1.7" (43.2mm)	No
5.000	90.000	1/2" Coax	Yes
5.000	90.000	2" conduit	Yes
5.000	90.000	5/16" (0.31"-	No

5.000	100.0	1 1/4" Hybriflex	No
5.000	107.0	7/8" Coax	Yes
5.000	115.0	1 5/8" (1.63"-	Yes
5.000	115.0	1 5/8" Coax	Yes
5.000	125.0	1 1/4" (1.25"-	Yes
5.000	125.0	1 5/8" (1.63"-	Yes
5.000	125.0	1 5/8" Coax	No
5.000	138.0	1 5/8" Coax	No
5.000	151.0	1 1/4" Coax	No



Load Cases

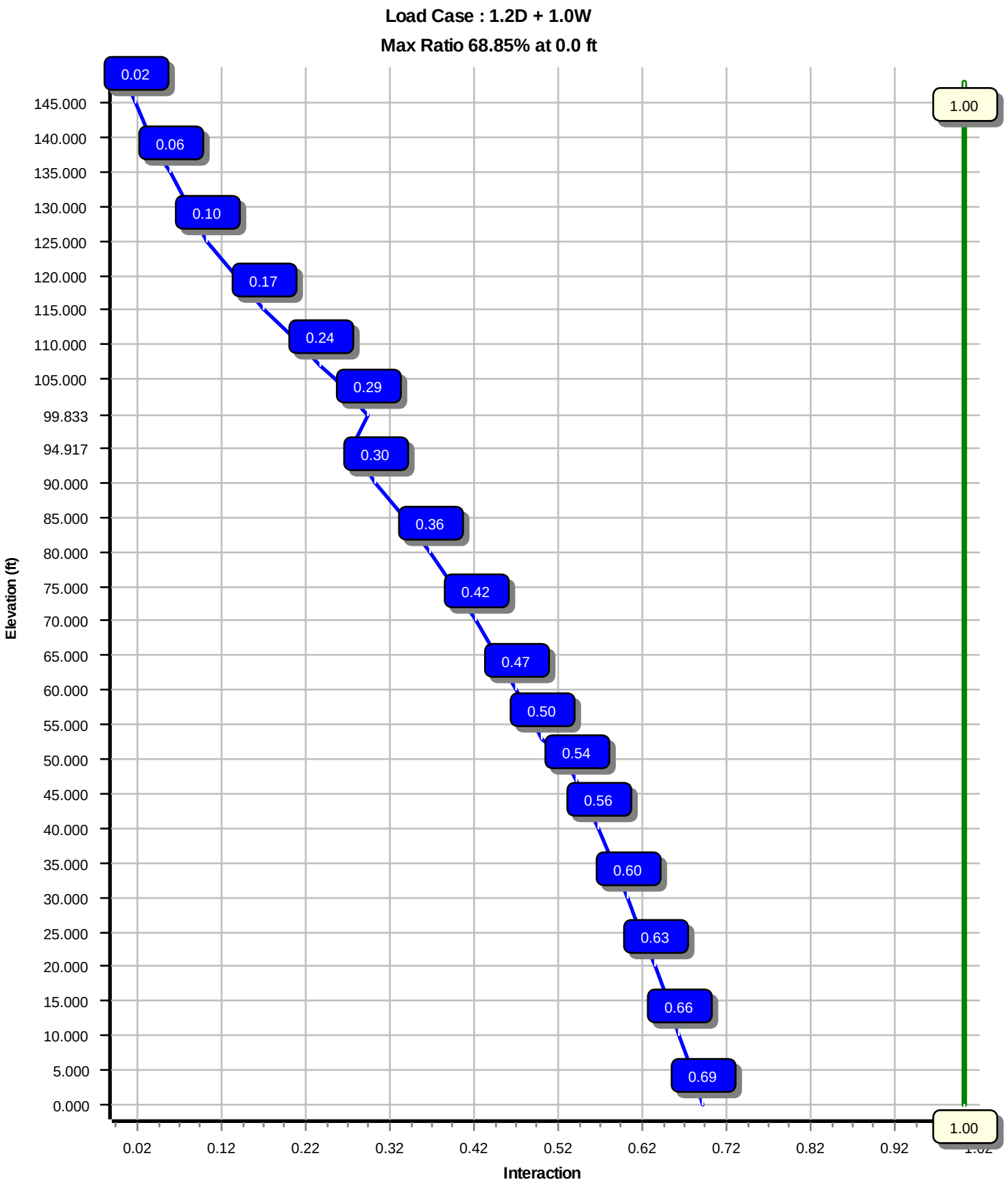
1.2D + 1.0W	117 mph with No Ice
0.9D + 1.0W	117 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.50 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3399.15	33.15	52.74
0.9D + 1.0W	3365.01	33.13	39.54
1.2D + 1.0Di + 1.0Wi	998.64	9.69	82.93
1.2D + 1.0Ev + 1.0Eh	153.36	1.32	53.14
0.9D - 1.0Ev + 1.0Eh	151.45	1.32	36.88
1.0D + 1.0W	794.99	7.80	43.99

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	90.00	7.000	0.711
1.0D + 1.0W	90.00	7.000	0.711


Load Case : 1.2D + 1.0W
Max Ratio 68.85% at 0.0 ft
0.02
0.06
0.10
0.17
0.24
0.29
0.30
0.36
0.42
0.47
0.50
0.54
0.56
0.60
0.63
0.66
0.69
1.00
1.00
145.000
140.000
135.000
130.000
125.000
120.000
115.000
110.000
105.000
99.833
94.917
90.000
85.000
80.000
75.000
70.000
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
Elevation (ft)
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Site Number: 302466 Code: ANSI/TIA-222-H

Site Name: West Service Road, CT Engineering Number:13668983_C3_04 7/6/2021 2:55:36 PM

Customer: VERIZON WIRELESS

Analysis Parameters

Location :	Hartford County, CT	Height (ft) :	147.9167
Code :	ANSI/TIA-222-H	Base Diameter (in) :	56.58
Shape :	18 Sides	Top Diameter (in) :	26.22
Pole Type :	Taper	Taper (in/ft) :	0.215
Pole Manfacturer :	FWT	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	1.00

Ice & Wind Parameters

Exposure Category:	C	Design Wind Speed Without Ice:	117 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.50 in
Crest Height:	0 ft	HMSL:	20.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	2.15				
T_L (sec):	6	p:	1	C_s:	0.030
S_s:	0.186	S_1:	0.055	C_s Max:	0.030
F_a:	1.600	F_v:	2.400	C_s Min:	0.030
S_{ds}:	0.198	S_{d1}:	0.088		

Load Cases

1.2D + 1.0W	117 mph with No Ice
0.9D + 1.0W	117 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.50 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	53.000	0.3750	65		0.00	10,844	56.58	0.00	66.90	26698.9	24.84	150.88	45.20	53.00	53.36	13550.7	19.49	120.55	0.214564
2-18	53.000	0.3750	65	Slip	74.00	8,848	47.28	46.83	55.83	15518.8	20.47	126.08	35.90	99.83	42.29	6747.0	15.12	95.76	0.214564
3-18	53.000	0.3125	65	Slip	59.00	5,651	37.58	94.92	36.97	6490.8	19.45	120.28	26.21	147.92	25.69	2178.3	13.03	83.89	0.214564
				Shaft Weight		25,343													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
151.00	Andrew DB844H90E-XY	8	0.75	0.000	14.00	3.615	0.73	124.47	3.921	0.73
151.00	Andrew 844G65VTZASX	4	0.75	0.000	16.00	5.310	0.71	171.78	6.311	0.71
147.90	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,420.69	63.365	1.00
138.00	Generic 48" x 4" Panel	9	0.80	0.000	20.00	2.080	0.67	59.33	3.636	0.67
138.00	Flat Low Profile Platform	1	1.00	0.000	1,500.00	26.100	1.00	2,143.13	45.051	1.00
125.00	Ericsson KRY 112 144/1	3	0.80	1.000	11.00	0.351	0.50	21.57	0.750	0.50
125.00	Ericsson Radio 4449 B71 B85A	3	0.80	0.000	75.00	1.650	0.50	134.05	2.484	0.50
125.00	Ericsson RRUS 4415 B25	3	0.80	0.000	46.00	1.842	0.50	94.15	2.723	0.50
125.00	Ericsson Air6449 B41	3	0.80	0.000	104.00	5.682	0.63	237.82	7.241	0.63
125.00	Ericsson AIR 21, 1.3M, B2A B4P	3	0.80	0.000	91.50	6.037	0.70	234.47	8.143	0.70
125.00	Ericsson AIR32 B66Aa/B2a	3	0.80	0.000	132.20	6.510	0.71	288.93	8.661	0.71
125.00	Round T-Arm	3	0.75	0.000	250.00	9.700	0.67	455.23	17.796	0.67
125.00	RFS APXVAARR24_43-U-NA20	3	0.80	0.000	127.90	20.243	0.63	513.40	23.885	0.63
115.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	146.51	2.754	0.50
115.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	125.99	2.754	0.50
115.00	Raycap RCMDC-6627-PF-48	2	0.80	0.000	32.00	4.056	0.79	155.74	5.385	0.79
115.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	180.84	6.188	0.61
115.00	Amphenol Antel BXA-70063-6CF-	1	0.80	0.000	17.00	7.569	1.00	161.09	10.254	1.00
115.00	Amphenol Antel BXA-70063-6CF-	2	0.80	0.000	17.00	7.569	0.75	161.09	10.254	0.75
115.00	Commscope SBNHH-1D65B	6	0.80	1.000	50.70	8.173	0.69	221.58	10.928	0.69
115.00	Generic Flat Low Profile Platform	1	1.00	0.000	1,875.00	26.100	1.00	2,663.51	44.689	1.00
107.00	Antel BCD-87010 ___ 25	1	1.00	0.000	26.50	2.900	1.00	155.88	6.583	1.00
107.00	Generic Flat Stand-Off	1	1.00	0.000	187.50	6.300	1.00	316.45	9.316	1.00
100.00	Alcatel-Lucent RRH2x50-08	6	0.80	0.000	52.90	1.701	0.50	109.92	2.531	0.50
100.00	Alcatel-Lucent 1900MHz RRH	3	0.80	0.000	60.00	2.583	0.50	148.72	3.655	0.50
100.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	563.86	17.632	0.67
100.00	Commscope NNVV-65B-R4	3	0.80	0.000	77.40	12.271	0.64	319.16	14.969	0.64
90.00	DragonWave Horizon Compact	2	0.80	0.000	10.60	0.721	0.50	31.95	1.261	0.50
90.00	NextNet BTS-2500	3	0.80	0.000	35.00	1.817	0.50	79.03	2.687	0.50
90.00	Generic 18" x 18" x 4" Junction	1	0.80	0.000	21.00	2.700	0.50	75.55	3.720	0.50
90.00	Nokia 2.5G MAA - AAHC(64T64R)	3	0.80	0.000	103.60	4.203	0.64	210.64	5.476	0.64
90.00	Andrew VHLP2-18	2	1.00	0.000	27.00	4.680	1.00	119.73	5.887	1.00
90.00	DragonWave A-ANT-18G-3-C	2	1.00	0.000	49.60	9.018	1.00	224.80	10.688	1.00
90.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	560.55	17.528	0.67
Totals	Num Loadings:34	101			12,801.70			27,473.56		

Linear Appurtenance Properties

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax / Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
5.00	151.00	12	1 1/4" Coax	1.55	0.63	N	0	0.00	0.00	0	0.00	N	SPRINT NEXTEL
5.00	138.00	9	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
5.00	125.00	3	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N	2	0.50	0.50	50	0.50	Y	T-MOBILE
5.00	125.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	1	0.50	0.50	35	0.50	Y	T-MOBILE

5.00	125.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	T-MOBILE
5.00	115.00	2	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	2	0.50	0.50	130	0.50	Y	VERIZON WIRELESS
5.00	115.00	6	1 5/8" Coax	1.98	0.82	N	6	0.50	0.50	160	0.50	Y	VERIZON WIRELESS
5.00	107.00	1	7/8" Coax	1.09	0.33	N	1	0.50	0.50	345	0.50	Y	SENSUS USA INC.
5.00	100.00	3	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
5.00	90.00	1	1.7" (43.2mm) Hybrid	1.70	1.78	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
5.00	90.00	2	1/2" Coax	0.63	0.15	N	2	0.50	0.50	190	0.50	Y	CLEARWIRE
5.00	90.00	2	2" conduit	2.38	3.65	N	2	0.50	0.50	200	0.50	Y	CLEARWIRE
5.00	90.00	6	5/16" (0.31"-7.9mm)	0.31	0.05	N	0	0.00	0.00	0	0.00	N	CLEARWIRE

Segment Properties (Max Len : 5. ft)

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)
0.00		0.3750	56.580	66.895	26,698.9	24.84	150.88	72.2	929.4	0.0	0.0
5.00		0.3750	55.507	65.618	25,199.0	24.34	148.02	72.8	894.2	0.0	1,127.3
10.00		0.3750	54.434	64.341	23,756.4	23.83	145.16	73.4	859.6	0.0	1,105.6
15.00		0.3750	53.361	63.065	22,369.9	23.33	142.30	74.0	825.7	0.0	1,083.8
20.00		0.3750	52.288	61.788	21,038.5	22.82	139.44	74.6	792.5	0.0	1,062.1
25.00		0.3750	51.216	60.511	19,760.9	22.32	136.57	75.2	760.0	0.0	1,040.4
30.00		0.3750	50.143	59.234	18,536.2	21.81	133.71	75.7	728.1	0.0	1,018.7
35.00		0.3750	49.070	57.957	17,363.1	21.31	130.85	76.3	696.9	0.0	996.9
40.00		0.3750	47.997	56.680	16,240.6	20.81	127.99	76.9	666.5	0.0	975.2
45.00		0.3750	46.924	55.403	15,167.5	20.30	125.13	77.5	636.6	0.0	953.5
46.83	Bot - Section 2	0.3750	46.531	54.935	14,786.3	20.12	124.08	77.7	625.9	0.0	344.2
50.00		0.3750	45.851	54.126	14,142.8	19.80	122.27	78.1	607.5	0.0	1,184.8
53.00	Top - Section 1	0.3750	45.958	54.253	14,242.2	19.85	122.55	78.1	610.4	0.0	1,106.4
55.00		0.3750	45.529	53.742	13,843.8	19.64	121.41	78.3	598.9	0.0	367.5
60.00		0.3750	44.456	52.465	12,880.3	19.14	118.55	78.9	570.7	0.0	903.5
65.00		0.3750	43.383	51.188	11,962.6	18.64	115.69	79.5	543.1	0.0	881.8
70.00		0.3750	42.310	49.912	11,089.5	18.13	112.83	80.1	516.2	0.0	860.1
75.00		0.3750	41.237	48.635	10,260.0	17.63	109.97	80.7	490.0	0.0	838.3
80.00		0.3750	40.165	47.358	9,472.9	17.12	107.11	81.3	464.5	0.0	816.6
85.00		0.3750	39.092	46.081	8,727.1	16.62	104.24	81.9	439.7	0.0	794.9
90.00		0.3750	38.019	44.804	8,021.6	16.11	101.38	82.4	415.6	0.0	773.2
94.92	Bot - Section 3	0.3750	36.964	43.548	7,365.9	15.62	98.57	82.6	392.5	0.0	739.1
95.00		0.3750	36.946	43.527	7,355.1	15.61	98.52	82.6	392.1	0.0	22.8
99.83	Top - Section 2	0.3125	36.534	35.926	5,955.2	18.85	116.91	79.2	321.1	0.0	1,305.1
100.0		0.3125	36.498	35.890	5,937.6	18.83	116.79	79.3	320.4	0.0	20.4
105.0		0.3125	35.425	34.826	5,425.0	18.23	113.36	80.0	301.6	0.0	601.6
107.0		0.3125	34.996	34.401	5,228.5	17.98	111.99	80.2	294.3	0.0	235.6
110.0		0.3125	34.353	33.762	4,942.7	17.62	109.93	80.7	283.4	0.0	347.9
115.0		0.3125	33.280	32.698	4,490.0	17.01	106.50	81.4	265.7	0.0	565.4
120.0		0.3125	32.207	31.634	4,065.8	16.41	103.06	82.1	248.6	0.0	547.3
125.0		0.3125	31.134	30.570	3,669.1	15.80	99.63	82.6	232.1	0.0	529.2
130.0		0.3125	30.061	29.506	3,299.2	15.20	96.20	82.6	216.2	0.0	511.1
135.0		0.3125	28.989	28.442	2,955.0	14.59	92.76	82.6	200.8	0.0	493.0
138.0		0.3125	28.345	27.804	2,760.4	14.23	90.70	82.6	191.8	0.0	287.1
140.0		0.3125	27.916	27.378	2,635.6	13.99	89.33	82.6	186.0	0.0	187.8
145.0		0.3125	26.843	26.314	2,340.0	13.38	85.90	82.6	171.7	0.0	456.8
147.9		0.3125	26.221	25.697	2,179.2	13.03	83.91	82.6	163.7	0.0	256.6
147.9		0.3125	26.217	25.693	2,178.3	13.03	83.89	82.6	163.7	0.0	1.5
											25,342.5

Load Case: 1.2D + 1.0W — 117 mph with No Ice — 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		232.3	0.0					0.0	0.0	232.3	0.0	0.0	0.0
5.00		496.4	1,352.7					0.0	0.0	496.4	1,352.7	0.0	0.0
10.00		523.0	1,326.7					0.0	304.1	523.0	1,630.8	0.0	0.0
15.00		520.7	1,300.6					0.0	304.1	520.7	1,604.7	0.0	0.0
20.00		532.2	1,274.5					0.0	304.1	532.2	1,578.7	0.0	0.0
25.00		546.6	1,248.5					0.0	304.1	546.6	1,552.6	0.0	0.0
30.00		556.3	1,222.4					0.0	304.1	556.3	1,526.5	0.0	0.0
35.00		562.4	1,196.3					0.0	304.1	562.4	1,500.5	0.0	0.0
40.00		565.9	1,170.3					0.0	304.1	565.9	1,474.4	0.0	0.0
45.00		387.5	1,144.2					0.0	304.1	387.5	1,448.3	0.0	0.0
46.83	Bot - Section 2	286.5	413.0					0.0	111.5	286.5	524.5	0.0	0.0
50.00		355.2	1,421.8					0.0	192.6	355.2	1,614.4	0.0	0.0
53.00	Top - Section 1	287.7	1,327.6					0.0	182.5	287.7	1,510.1	0.0	0.0
55.00		401.4	441.0					0.0	121.7	401.4	562.6	0.0	0.0
60.00		570.9	1,084.2					0.0	304.1	570.9	1,388.3	0.0	0.0
65.00		566.6	1,058.1					0.0	304.1	566.6	1,362.3	0.0	0.0
70.00		561.3	1,032.1					0.0	304.1	561.3	1,336.2	0.0	0.0
75.00		555.1	1,006.0					0.0	304.1	555.1	1,310.1	0.0	0.0
80.00		548.1	979.9					0.0	304.1	548.1	1,284.1	0.0	0.0
85.00		540.3	953.9					0.0	304.1	540.3	1,258.0	0.0	0.0
90.00	Appurtenance(s)	527.5	927.8	2,369.6	0.0	0.0	1,858.4	0.0	304.1	2,897.1	3,090.4	0.0	0.0
94.92	Bot - Section 3	263.8	886.9					0.0	242.0	263.8	1,128.9	0.0	0.0
95.00		259.2	27.4					0.0	4.1	259.2	31.5	0.0	0.0
99.83	Top - Section 2	263.5	1,566.1					0.0	237.9	263.5	1,803.9	0.0	0.0
100.00	Appurtenance(s)	267.3	24.4	1,882.8	0.0	0.0	2,000.5	0.0	8.2	2,150.1	2,033.2	0.0	0.0
105.00		360.5	721.9					0.0	228.1	360.5	950.0	0.0	0.0
107.00	Appurtenance(s)	253.4	282.7	432.2	0.0	0.0	256.8	0.0	91.2	685.6	630.7	0.0	0.0
110.00		399.3	417.5					0.0	135.6	399.3	553.1	0.0	0.0
115.00	Appurtenance(s)	490.2	678.5	4,048.4	0.0	1,293.5	3,603.7	0.0	226.1	4,538.6	4,508.3	0.0	0.0
120.00		478.7	656.7					0.0	177.2	478.7	834.0	0.0	0.0
125.00	Appurtenance(s)	466.7	635.0	3,867.3	0.0	20.5	3,015.4	0.0	177.2	4,334.0	3,827.6	0.0	0.0
130.00		454.4	613.3					0.0	89.6	454.4	702.9	0.0	0.0
135.00		355.4	591.6					0.0	89.6	355.4	681.2	0.0	0.0
138.00	Appurtenance(s)	217.6	344.5	1,790.9	0.0	0.0	2,016.0	0.0	53.8	2,008.5	2,414.3	0.0	0.0
140.00		297.2	225.3					0.0	18.1	297.2	243.5	0.0	0.0
145.00		330.3	548.1					0.0	45.4	330.3	593.5	0.0	0.0
147.90		119.9	307.9					0.0	26.3	119.9	334.3	0.0	0.0
147.92		0.7	1.8					0.0	0.2	0.7	1.9	0.0	0.0
								Totals:		29,793.2	50,182.9	0.00	0.00

Load Case: 1.2D + 1.0W 117 mph with No Ice 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

Calculated Forces

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	-52.74	-33.15	0.00	-3,399.15	0.00	3,399.15	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.688
5.00	-51.29	-32.81	0.00	-3,233.42	0.00	3,233.42	4,297.95	1,151.60	5,734.40	4,880.60	0.10	-0.18	0.675
10.00	-49.56	-32.43	0.00	-3,069.38	0.00	3,069.38	4,248.67	1,129.19	5,513.42	4,730.12	0.38	-0.35	0.661
15.00	-47.86	-32.05	0.00	-2,907.23	0.00	2,907.23	4,198.03	1,106.78	5,296.78	4,580.35	0.84	-0.53	0.647
20.00	-46.19	-31.64	0.00	-2,746.99	0.00	2,746.99	4,146.02	1,084.37	5,084.48	4,431.38	1.50	-0.71	0.632
25.00	-44.54	-31.22	0.00	-2,588.77	0.00	2,588.77	4,092.65	1,061.97	4,876.53	4,283.29	2.34	-0.89	0.616
30.00	-42.93	-30.77	0.00	-2,432.69	0.00	2,432.69	4,037.92	1,039.56	4,672.92	4,136.18	3.38	-1.07	0.600
35.00	-41.35	-30.31	0.00	-2,278.84	0.00	2,278.84	3,981.83	1,017.15	4,473.65	3,990.14	4.60	-1.26	0.582
40.00	-39.79	-29.83	0.00	-2,127.30	0.00	2,127.30	3,924.37	994.74	4,278.72	3,845.25	6.01	-1.44	0.564
45.00	-38.29	-29.49	0.00	-1,978.14	0.00	1,978.14	3,865.54	972.33	4,088.13	3,701.62	7.61	-1.62	0.545
46.83	-37.73	-29.25	0.00	-1,924.08	0.00	1,924.08	3,843.63	964.11	4,019.34	3,649.29	8.25	-1.68	0.538
50.00	-36.07	-28.91	0.00	-1,831.47	0.00	1,831.47	3,805.35	949.92	3,901.89	3,559.34	9.40	-1.80	0.525
53.00	-34.52	-28.63	0.00	-1,744.73	0.00	1,744.73	3,811.38	952.14	3,920.15	3,573.37	10.57	-1.90	0.498
55.00	-33.92	-28.28	0.00	-1,687.47	0.00	1,687.47	3,786.98	943.18	3,846.70	3,516.80	11.38	-1.98	0.490
60.00	-32.47	-27.75	0.00	-1,546.06	0.00	1,546.06	3,725.02	920.77	3,666.10	3,376.39	13.54	-2.14	0.468
65.00	-31.05	-27.22	0.00	-1,407.29	0.00	1,407.29	3,661.69	898.36	3,489.85	3,237.53	15.87	-2.31	0.444
70.00	-29.67	-26.69	0.00	-1,271.18	0.00	1,271.18	3,597.00	875.95	3,317.94	3,100.32	18.38	-2.47	0.419
75.00	-28.32	-26.15	0.00	-1,137.74	0.00	1,137.74	3,530.95	853.54	3,150.37	2,964.84	21.04	-2.62	0.393
80.00	-26.99	-25.61	0.00	-1,006.99	0.00	1,006.99	3,463.54	831.13	2,987.14	2,831.19	23.86	-2.77	0.364
85.00	-25.71	-25.07	0.00	-878.94	0.00	878.94	3,394.76	808.72	2,828.25	2,699.44	26.84	-2.91	0.334
90.00	-22.72	-22.07	0.00	-753.59	0.00	753.59	3,324.61	786.31	2,673.70	2,569.71	29.96	-3.04	0.301
94.92	-21.58	-21.77	0.00	-645.10	0.00	645.10	3,235.43	764.28	2,525.97	2,430.01	33.16	-3.17	0.273
95.00	-21.55	-21.53	0.00	-643.28	0.00	643.28	3,233.85	763.90	2,523.50	2,427.62	33.21	-3.17	0.272
99.83	-19.74	-21.18	0.00	-539.24	0.00	539.24	2,561.72	630.50	2,062.81	1,907.75	36.48	-3.28	0.291
100.00	-17.81	-18.94	0.00	-535.71	0.00	535.71	2,559.96	629.88	2,058.74	1,904.54	36.59	-3.28	0.289
105.00	-16.86	-18.55	0.00	-441.02	0.00	441.02	2,506.38	611.20	1,938.49	1,808.92	40.09	-3.40	0.251
107.00	-16.25	-17.84	0.00	-403.93	0.00	403.93	2,484.57	603.73	1,891.40	1,771.07	41.53	-3.44	0.235
110.00	-15.70	-17.43	0.00	-350.42	0.00	350.42	2,451.44	592.53	1,821.86	1,714.73	43.71	-3.50	0.212
115.00	-11.47	-12.63	0.00	-261.99	0.00	261.99	2,395.13	573.85	1,708.85	1,622.06	47.43	-3.59	0.167
120.00	-10.65	-12.12	0.00	-198.82	0.00	198.82	2,337.45	555.18	1,599.45	1,531.01	51.23	-3.67	0.135
125.00	-7.10	-7.55	0.00	-138.22	0.00	138.22	2,271.21	536.51	1,493.68	1,437.09	55.10	-3.72	0.100
130.00	-6.43	-7.06	0.00	-100.47	0.00	100.47	2,192.15	517.83	1,391.52	1,338.31	59.02	-3.77	0.078
135.00	-5.77	-6.66	0.00	-65.19	0.00	65.19	2,113.10	499.16	1,292.98	1,243.04	62.99	-3.81	0.055
138.00	-3.49	-4.49	0.00	-45.21	0.00	45.21	2,065.67	487.95	1,235.60	1,187.57	65.39	-3.82	0.040
140.00	-3.27	-4.18	0.00	-36.22	0.00	36.22	2,034.04	480.48	1,198.06	1,151.29	66.99	-3.83	0.033
145.00	-2.70	-3.81	0.00	-15.31	0.00	15.31	1,954.99	461.81	1,106.76	1,063.05	71.01	-3.85	0.016
147.90	-0.12	-1.38	0.00	-4.25	0.00	4.25	1,909.14	450.98	1,055.46	1,013.49	73.34	-3.85	0.004
147.92	0.00	-1.37	0.00	-4.23	0.00	4.23	1,908.87	450.91	1,055.17	1,013.21	73.36	-3.85	0.004

Load Case: 0.9D + 1.0W — 117 mph with No Ice (Reduced DL) — 23 Iterations

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

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		232.3	0.0					0.0	0.0	232.3	0.0	0.0	0.0
5.00		496.4	1,014.6					0.0	0.0	496.4	1,014.6	0.0	0.0
10.00		523.0	995.0					0.0	228.1	523.0	1,223.1	0.0	0.0
15.00		520.7	975.5					0.0	228.1	520.7	1,203.6	0.0	0.0
20.00		532.2	955.9					0.0	228.1	532.2	1,184.0	0.0	0.0
25.00		546.6	936.3					0.0	228.1	546.6	1,164.5	0.0	0.0
30.00		556.3	916.8					0.0	228.1	556.3	1,144.9	0.0	0.0
35.00		562.4	897.2					0.0	228.1	562.4	1,125.3	0.0	0.0
40.00		565.9	877.7					0.0	228.1	565.9	1,105.8	0.0	0.0
45.00		387.5	858.1					0.0	228.1	387.5	1,086.2	0.0	0.0
46.83	Bot - Section 2	286.5	309.8					0.0	83.6	286.5	393.4	0.0	0.0
50.00		355.2	1,066.3					0.0	144.5	355.2	1,210.8	0.0	0.0
53.00	Top - Section 1	287.7	995.7					0.0	136.9	287.7	1,132.6	0.0	0.0
55.00		401.4	330.7					0.0	91.2	401.4	422.0	0.0	0.0
60.00		570.9	813.2					0.0	228.1	570.9	1,041.3	0.0	0.0
65.00		566.6	793.6					0.0	228.1	566.6	1,021.7	0.0	0.0
70.00		561.3	774.0					0.0	228.1	561.3	1,002.2	0.0	0.0
75.00		555.1	754.5					0.0	228.1	555.1	982.6	0.0	0.0
80.00		548.1	734.9					0.0	228.1	548.1	963.0	0.0	0.0
85.00		540.3	715.4					0.0	228.1	540.3	943.5	0.0	0.0
90.00	Appurtenance(s)	527.5	695.8	2,369.6	0.0	0.0	1,393.8	0.0	228.1	2,897.1	2,317.8	0.0	0.0
94.92	Bot - Section 3	263.8	665.2					0.0	181.5	263.8	846.6	0.0	0.0
95.00		259.2	20.5					0.0	3.1	259.2	23.6	0.0	0.0
99.83	Top - Section 2	263.5	1,174.5					0.0	178.4	263.5	1,352.9	0.0	0.0
100.00	Appurtenance(s)	267.3	18.3	1,882.8	0.0	0.0	1,500.4	0.0	6.2	2,150.1	1,524.9	0.0	0.0
105.00		360.5	541.4					0.0	171.0	360.5	712.5	0.0	0.0
107.00	Appurtenance(s)	253.4	212.0	432.2	0.0	0.0	192.6	0.0	68.4	685.6	473.0	0.0	0.0
110.00		399.3	313.1					0.0	101.7	399.3	414.9	0.0	0.0
115.00	Appurtenance(s)	490.2	508.8	4,048.4	0.0	1,293.5	2,702.8	0.0	169.6	4,538.6	3,381.2	0.0	0.0
120.00		478.7	492.5					0.0	132.9	478.7	625.5	0.0	0.0
125.00	Appurtenance(s)	466.7	476.3	3,867.3	0.0	20.5	2,261.5	0.0	132.9	4,334.0	2,870.7	0.0	0.0
130.00		454.4	460.0					0.0	67.2	454.4	527.2	0.0	0.0
135.00		355.4	443.7					0.0	67.2	355.4	510.9	0.0	0.0
138.00	Appurtenance(s)	217.6	258.4	1,790.9	0.0	0.0	1,512.0	0.0	40.3	2,008.5	1,810.7	0.0	0.0
140.00		297.2	169.0					0.0	13.6	297.2	182.6	0.0	0.0
145.00		330.3	411.1					0.0	34.0	330.3	445.1	0.0	0.0
147.90		119.9	231.0					0.0	19.7	119.9	250.7	0.0	0.0
147.92		0.7	1.3					0.0	0.1	0.7	1.4	0.0	0.0
								Totals:		29,793.2	37,637.1	0.00	0.00

Load Case: 0.9D + 1.0W 117 mph with No Ice (Reduced DL) 23 Iterations

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

Calculated Forces

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	-39.54	-33.13	0.00	-3,365.01	0.00	3,365.01	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.679
5.00	-38.43	-32.75	0.00	-3,199.39	0.00	3,199.39	4,297.95	1,151.60	5,734.40	4,880.60	0.09	-0.17	0.665
10.00	-37.11	-32.33	0.00	-3,035.66	0.00	3,035.66	4,248.67	1,129.19	5,513.42	4,730.12	0.37	-0.35	0.651
15.00	-35.81	-31.91	0.00	-2,874.00	0.00	2,874.00	4,198.03	1,106.78	5,296.78	4,580.35	0.84	-0.53	0.637
20.00	-34.54	-31.48	0.00	-2,714.44	0.00	2,714.44	4,146.02	1,084.37	5,084.48	4,431.38	1.48	-0.71	0.622
25.00	-33.28	-31.02	0.00	-2,557.07	0.00	2,557.07	4,092.65	1,061.97	4,876.53	4,283.29	2.32	-0.88	0.606
30.00	-32.05	-30.54	0.00	-2,401.99	0.00	2,401.99	4,037.92	1,039.56	4,672.92	4,136.18	3.34	-1.06	0.590
35.00	-30.84	-30.05	0.00	-2,249.29	0.00	2,249.29	3,981.83	1,017.15	4,473.65	3,990.14	4.55	-1.24	0.572
40.00	-29.66	-29.55	0.00	-2,099.03	0.00	2,099.03	3,924.37	994.74	4,278.72	3,845.25	5.95	-1.42	0.554
45.00	-28.52	-29.20	0.00	-1,951.27	0.00	1,951.27	3,865.54	972.33	4,088.13	3,701.62	7.53	-1.60	0.535
46.83	-28.09	-28.94	0.00	-1,897.74	0.00	1,897.74	3,843.63	964.11	4,019.34	3,649.29	8.15	-1.66	0.528
50.00	-26.84	-28.60	0.00	-1,806.09	0.00	1,806.09	3,805.35	949.92	3,901.89	3,559.34	9.30	-1.78	0.515
53.00	-25.67	-28.32	0.00	-1,720.28	0.00	1,720.28	3,811.38	952.14	3,920.15	3,573.37	10.45	-1.88	0.489
55.00	-25.21	-27.96	0.00	-1,663.64	0.00	1,663.64	3,786.98	943.18	3,846.70	3,516.80	11.25	-1.95	0.481
60.00	-24.11	-27.42	0.00	-1,523.86	0.00	1,523.86	3,725.02	920.77	3,666.10	3,376.39	13.38	-2.12	0.459
65.00	-23.04	-26.88	0.00	-1,386.78	0.00	1,386.78	3,661.69	898.36	3,489.85	3,237.53	15.69	-2.28	0.436
70.00	-21.99	-26.33	0.00	-1,252.40	0.00	1,252.40	3,597.00	875.95	3,317.94	3,100.32	18.16	-2.43	0.411
75.00	-20.96	-25.79	0.00	-1,120.74	0.00	1,120.74	3,530.95	853.54	3,150.37	2,964.84	20.79	-2.59	0.385
80.00	-19.96	-25.25	0.00	-991.79	0.00	991.79	3,463.54	831.13	2,987.14	2,831.19	23.57	-2.73	0.357
85.00	-18.99	-24.71	0.00	-865.55	0.00	865.55	3,394.76	808.72	2,828.25	2,699.44	26.51	-2.87	0.327
90.00	-16.77	-21.73	0.00	-742.02	0.00	742.02	3,324.61	786.31	2,673.70	2,569.71	29.59	-3.00	0.295
94.92	-15.92	-21.44	0.00	-635.17	0.00	635.17	3,235.43	764.28	2,525.97	2,430.01	32.75	-3.12	0.267
95.00	-15.89	-21.19	0.00	-633.39	0.00	633.39	3,233.85	763.90	2,523.50	2,427.62	32.80	-3.13	0.267
99.83	-14.53	-20.87	0.00	-530.95	0.00	530.95	2,561.72	630.50	2,062.81	1,907.75	36.02	-3.23	0.285
100.00	-13.11	-18.65	0.00	-527.47	0.00	527.47	2,559.96	629.88	2,058.74	1,904.54	36.14	-3.24	0.283
105.00	-12.40	-18.27	0.00	-434.21	0.00	434.21	2,506.38	611.20	1,938.49	1,808.92	39.59	-3.35	0.246
107.00	-11.95	-17.57	0.00	-397.67	0.00	397.67	2,484.57	603.73	1,891.40	1,771.07	41.00	-3.40	0.230
110.00	-11.54	-17.16	0.00	-344.97	0.00	344.97	2,451.44	592.53	1,821.86	1,714.73	43.16	-3.46	0.207
115.00	-8.42	-12.43	0.00	-257.89	0.00	257.89	2,395.13	573.85	1,708.85	1,622.06	46.82	-3.54	0.163
120.00	-7.81	-11.93	0.00	-195.72	0.00	195.72	2,337.45	555.18	1,599.45	1,531.01	50.57	-3.62	0.132
125.00	-5.22	-7.42	0.00	-136.08	0.00	136.08	2,271.21	536.51	1,493.68	1,437.09	54.39	-3.67	0.097
130.00	-4.72	-6.94	0.00	-98.97	0.00	98.97	2,192.15	517.83	1,391.52	1,338.31	58.26	-3.72	0.076
135.00	-4.23	-6.55	0.00	-64.28	0.00	64.28	2,113.10	499.16	1,292.98	1,243.04	62.18	-3.75	0.054
138.00	-2.55	-4.43	0.00	-44.62	0.00	44.62	2,065.67	487.95	1,235.60	1,187.57	64.54	-3.77	0.039
140.00	-2.39	-4.12	0.00	-35.77	0.00	35.77	2,034.04	480.48	1,198.06	1,151.29	66.12	-3.78	0.032
145.00	-1.97	-3.76	0.00	-15.16	0.00	15.16	1,954.99	461.81	1,106.76	1,063.05	70.08	-3.79	0.015
147.90	-0.07	-1.38	0.00	-4.25	0.00	4.25	1,909.14	450.98	1,055.46	1,013.49	72.39	-3.80	0.004
147.92	0.00	-1.37	0.00	-4.23	0.00	4.23	1,908.87	450.91	1,055.17	1,013.21	72.40	-3.80	0.004

Load Case: 1.2D + 1.0Di + 1.0Wi — 50 mph with 1.50 in Radial Ice — 22 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		77.1	0.0					0.0	0.0	77.1	0.0	0.0	0.0
5.00		160.0	1,764.1					0.0	0.0	160.0	1,764.1	0.0	0.0
10.00		164.5	1,778.2					0.0	503.6	164.5	2,281.8	0.0	0.0
15.00		164.3	1,767.2					0.0	514.3	164.3	2,281.6	0.0	0.0
20.00		168.3	1,748.1					0.0	521.8	168.3	2,269.9	0.0	0.0
25.00		173.3	1,724.7					0.0	527.7	173.3	2,252.3	0.0	0.0
30.00		176.7	1,698.6					0.0	532.5	176.7	2,231.1	0.0	0.0
35.00		179.1	1,670.7					0.0	536.6	179.1	2,207.3	0.0	0.0
40.00		180.5	1,641.5					0.0	540.2	180.5	2,181.6	0.0	0.0
45.00		123.8	1,611.2					0.0	543.4	123.8	2,154.6	0.0	0.0
46.83	Bot - Section 2	91.6	584.2					0.0	200.0	91.6	784.2	0.0	0.0
50.00		113.7	1,719.5					0.0	346.3	113.7	2,065.8	0.0	0.0
53.00	Top - Section 1	92.2	1,607.8					0.0	329.0	92.2	1,936.8	0.0	0.0
55.00		128.8	626.9					0.0	219.9	128.8	846.8	0.0	0.0
60.00		183.5	1,541.5					0.0	551.3	183.5	2,092.8	0.0	0.0
65.00		182.5	1,508.6					0.0	553.6	182.5	2,062.2	0.0	0.0
70.00		181.2	1,475.3					0.0	555.7	181.2	2,031.0	0.0	0.0
75.00		179.6	1,441.6					0.0	557.7	179.6	1,999.3	0.0	0.0
80.00		177.8	1,407.6					0.0	559.6	177.8	1,967.1	0.0	0.0
85.00		175.7	1,373.3					0.0	561.3	175.7	1,934.6	0.0	0.0
90.00	Appurtenance(s)	172.0	1,338.6	609.8	0.0	0.0	3,412.2	0.0	563.0	781.7	5,313.8	0.0	0.0
94.92	Bot - Section 3	86.1	1,282.4					0.0	427.6	86.1	1,710.0	0.0	0.0
95.00		84.7	34.2					0.0	7.3	84.7	41.5	0.0	0.0
99.83	Top - Section 2	86.1	1,952.7					0.0	421.4	86.1	2,374.0	0.0	0.0
100.00	Appurtenance(s)	87.6	37.8	507.8	0.0	0.0	3,776.7	0.0	14.5	595.4	3,829.0	0.0	0.0
105.00		118.3	1,112.3					0.0	419.0	118.3	1,531.2	0.0	0.0
107.00	Appurtenance(s)	83.3	437.6	136.4	0.0	0.0	496.0	0.0	167.9	219.7	1,101.4	0.0	0.0
110.00		131.6	646.3					0.0	244.9	131.6	891.2	0.0	0.0
115.00	Appurtenance(s)	162.0	1,049.8	1,079.6	0.0	315.9	6,284.8	0.0	408.9	1,241.5	7,743.5	0.0	0.0
120.00		158.7	1,018.4					0.0	231.1	158.7	1,249.5	0.0	0.0
125.00	Appurtenance(s)	155.3	986.7	970.5	0.0	8.0	5,940.6	0.0	231.4	1,125.8	7,158.7	0.0	0.0
130.00		151.8	954.9					0.0	89.6	151.8	1,044.6	0.0	0.0
135.00		119.1	923.0					0.0	89.6	119.1	1,012.7	0.0	0.0
138.00	Appurtenance(s)	73.2	539.8	566.6	0.0	0.0	2,868.9	0.0	53.8	639.7	3,462.6	0.0	0.0
140.00		100.3	353.9					0.0	18.1	100.3	372.1	0.0	0.0
145.00		111.7	858.8					0.0	45.4	111.7	904.1	0.0	0.0
147.90		40.7	484.7					0.0	26.3	40.7	511.0	0.0	0.0
147.92		0.2	2.8					0.0	0.2	0.2	2.9	0.0	0.0
								Totals:		8,867.60	77,598.8	0.00	0.00

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.50 in Radial Ice 22 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

Calculated Forces

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	-82.93	-9.69	0.00	-998.64	0.00	998.64	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.218
5.00	-81.16	-9.61	0.00	-950.17	0.00	950.17	4,297.95	1,151.60	5,734.40	4,880.60	0.03	-0.05	0.214
10.00	-78.87	-9.51	0.00	-902.15	0.00	902.15	4,248.67	1,129.19	5,513.42	4,730.12	0.11	-0.10	0.209
15.00	-76.58	-9.41	0.00	-854.60	0.00	854.60	4,198.03	1,106.78	5,296.78	4,580.35	0.25	-0.16	0.205
20.00	-74.30	-9.30	0.00	-807.54	0.00	807.54	4,146.02	1,084.37	5,084.48	4,431.38	0.44	-0.21	0.200
25.00	-72.04	-9.19	0.00	-761.02	0.00	761.02	4,092.65	1,061.97	4,876.53	4,283.29	0.69	-0.26	0.195
30.00	-69.80	-9.07	0.00	-715.08	0.00	715.08	4,037.92	1,039.56	4,672.92	4,136.18	0.99	-0.32	0.190
35.00	-67.59	-8.94	0.00	-669.75	0.00	669.75	3,981.83	1,017.15	4,473.65	3,990.14	1.35	-0.37	0.185
40.00	-65.40	-8.80	0.00	-625.08	0.00	625.08	3,924.37	994.74	4,278.72	3,845.25	1.77	-0.42	0.179
45.00	-63.24	-8.70	0.00	-581.08	0.00	581.08	3,865.54	972.33	4,088.13	3,701.62	2.24	-0.47	0.173
46.83	-62.45	-8.63	0.00	-565.13	0.00	565.13	3,843.63	964.11	4,019.34	3,649.29	2.42	-0.49	0.171
50.00	-60.38	-8.53	0.00	-537.80	0.00	537.80	3,805.35	949.92	3,901.89	3,559.34	2.76	-0.53	0.167
53.00	-58.44	-8.45	0.00	-512.20	0.00	512.20	3,811.38	952.14	3,920.15	3,573.37	3.11	-0.56	0.159
55.00	-57.59	-8.35	0.00	-495.31	0.00	495.31	3,786.98	943.18	3,846.70	3,516.80	3.35	-0.58	0.156
60.00	-55.49	-8.19	0.00	-453.57	0.00	453.57	3,725.02	920.77	3,666.10	3,376.39	3.98	-0.63	0.149
65.00	-53.43	-8.03	0.00	-412.63	0.00	412.63	3,661.69	898.36	3,489.85	3,237.53	4.67	-0.68	0.142
70.00	-51.39	-7.86	0.00	-372.50	0.00	372.50	3,597.00	875.95	3,317.94	3,100.32	5.40	-0.72	0.135
75.00	-49.39	-7.69	0.00	-333.19	0.00	333.19	3,530.95	853.54	3,150.37	2,964.84	6.18	-0.77	0.126
80.00	-47.42	-7.52	0.00	-294.72	0.00	294.72	3,463.54	831.13	2,987.14	2,831.19	7.01	-0.81	0.118
85.00	-45.48	-7.35	0.00	-257.10	0.00	257.10	3,394.76	808.72	2,828.25	2,699.44	7.89	-0.85	0.109
90.00	-40.18	-6.52	0.00	-220.34	0.00	220.34	3,324.61	786.31	2,673.70	2,569.71	8.80	-0.89	0.098
94.92	-38.47	-6.41	0.00	-188.31	0.00	188.31	3,235.43	764.28	2,525.97	2,430.01	9.74	-0.93	0.089
95.00	-38.42	-6.34	0.00	-187.77	0.00	187.77	3,233.85	763.90	2,523.50	2,427.62	9.76	-0.93	0.089
99.83	-36.05	-6.23	0.00	-157.13	0.00	157.13	2,561.72	630.50	2,062.81	1,907.75	10.72	-0.96	0.097
100.00	-32.23	-5.58	0.00	-156.09	0.00	156.09	2,559.96	629.88	2,058.74	1,904.54	10.75	-0.96	0.095
105.00	-30.70	-5.44	0.00	-128.21	0.00	128.21	2,506.38	611.20	1,938.49	1,808.92	11.78	-1.00	0.083
107.00	-29.60	-5.21	0.00	-117.32	0.00	117.32	2,484.57	603.73	1,891.40	1,771.07	12.20	-1.01	0.078
110.00	-28.71	-5.08	0.00	-101.69	0.00	101.69	2,451.44	592.53	1,821.86	1,714.73	12.84	-1.03	0.071
115.00	-20.99	-3.70	0.00	-75.99	0.00	75.99	2,395.13	573.85	1,708.85	1,622.06	13.93	-1.05	0.056
120.00	-19.74	-3.53	0.00	-57.48	0.00	57.48	2,337.45	555.18	1,599.45	1,531.01	15.05	-1.07	0.046
125.00	-12.60	-2.27	0.00	-39.83	0.00	39.83	2,271.21	536.51	1,493.68	1,437.09	16.18	-1.09	0.033
130.00	-11.56	-2.10	0.00	-28.48	0.00	28.48	2,192.15	517.83	1,391.52	1,338.31	17.33	-1.10	0.027
135.00	-10.55	-1.96	0.00	-17.98	0.00	17.98	2,113.10	499.16	1,292.98	1,243.04	18.49	-1.11	0.019
138.00	-7.10	-1.26	0.00	-12.09	0.00	12.09	2,065.67	487.95	1,235.60	1,187.57	19.20	-1.12	0.014
140.00	-6.73	-1.15	0.00	-9.58	0.00	9.58	2,034.04	480.48	1,198.06	1,151.29	19.67	-1.12	0.012
145.00	-5.83	-1.02	0.00	-3.83	0.00	3.83	1,954.99	461.81	1,106.76	1,063.05	20.84	-1.12	0.007
147.90	-1.72	-0.32	0.00	-0.88	0.00	0.88	1,909.14	450.98	1,055.46	1,013.49	21.53	-1.13	0.002
147.92	0.00	-0.28	0.00	-0.87	0.00	0.87	1,908.87	450.91	1,055.17	1,013.21	21.53	-1.13	0.001

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

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

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		54.7	0.0					0.0	0.0	54.7	0.0	0.0	0.0
5.00		116.8	1,127.3					0.0	0.0	116.8	1,127.3	0.0	0.0
10.00		123.1	1,105.6					0.0	253.5	123.1	1,359.0	0.0	0.0
15.00		122.5	1,083.8					0.0	253.5	122.5	1,337.3	0.0	0.0
20.00		125.2	1,062.1					0.0	253.5	125.2	1,315.6	0.0	0.0
25.00		128.6	1,040.4					0.0	253.5	128.6	1,293.8	0.0	0.0
30.00		130.9	1,018.7					0.0	253.5	130.9	1,272.1	0.0	0.0
35.00		132.3	996.9					0.0	253.5	132.3	1,250.4	0.0	0.0
40.00		133.1	975.2					0.0	253.5	133.1	1,228.7	0.0	0.0
45.00		91.2	953.5					0.0	253.5	91.2	1,206.9	0.0	0.0
46.83	Bot - Section 2	67.4	344.2					0.0	92.9	67.4	437.1	0.0	0.0
50.00		83.6	1,184.8					0.0	160.5	83.6	1,345.3	0.0	0.0
53.00	Top - Section 1	67.7	1,106.4					0.0	152.1	67.7	1,258.4	0.0	0.0
55.00		94.4	367.5					0.0	101.4	94.4	468.9	0.0	0.0
60.00		134.3	903.5					0.0	253.5	134.3	1,157.0	0.0	0.0
65.00		133.3	881.8					0.0	253.5	133.3	1,135.2	0.0	0.0
70.00		132.1	860.1					0.0	253.5	132.1	1,113.5	0.0	0.0
75.00		130.6	838.3					0.0	253.5	130.6	1,091.8	0.0	0.0
80.00		129.0	816.6					0.0	253.5	129.0	1,070.1	0.0	0.0
85.00		127.1	794.9					0.0	253.5	127.1	1,048.3	0.0	0.0
90.00	Appurtenance(s)	124.1	773.2	557.6	0.0	0.0	1,548.7	0.0	253.5	681.7	2,575.3	0.0	0.0
94.92	Bot - Section 3	62.1	739.1					0.0	201.6	62.1	940.7	0.0	0.0
95.00		61.0	22.8					0.0	3.4	61.0	26.2	0.0	0.0
99.83	Top - Section 2	62.0	1,305.1					0.0	198.2	62.0	1,503.3	0.0	0.0
100.00	Appurtenance(s)	62.9	20.4	443.0	0.0	0.0	1,667.1	0.0	6.8	505.9	1,694.3	0.0	0.0
105.00		84.8	601.6					0.0	190.1	84.8	791.6	0.0	0.0
107.00	Appurtenance(s)	59.6	235.6	101.7	0.0	0.0	214.0	0.0	76.0	161.3	525.6	0.0	0.0
110.00		94.0	347.9					0.0	113.0	94.0	461.0	0.0	0.0
115.00	Appurtenance(s)	115.3	565.4	952.6	0.0	304.4	3,003.1	0.0	188.4	1,068.0	3,756.9	0.0	0.0
120.00		112.6	547.3					0.0	147.7	112.6	695.0	0.0	0.0
125.00	Appurtenance(s)	109.8	529.2	910.0	0.0	4.8	2,512.8	0.0	147.7	1,019.8	3,189.7	0.0	0.0
130.00		106.9	511.1					0.0	74.7	106.9	585.8	0.0	0.0
135.00		83.6	493.0					0.0	74.7	83.6	567.7	0.0	0.0
138.00	Appurtenance(s)	51.2	287.1	421.4	0.0	0.0	1,680.0	0.0	44.8	472.6	2,011.9	0.0	0.0
140.00		69.9	187.8					0.0	15.1	69.9	202.9	0.0	0.0
145.00		77.7	456.8					0.0	37.8	77.7	494.6	0.0	0.0
147.90		28.2	256.6					0.0	21.9	28.2	278.5	0.0	0.0
147.92		0.2	1.5					0.0	0.1	0.2	1.6	0.0	0.0
								Totals:		7,010.42	41,819.0	0.00	0.00

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

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

Calculated Forces

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	-43.99	-7.80	0.00	-794.99	0.00	794.99	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.168
5.00	-42.86	-7.71	0.00	-756.01	0.00	756.01	4,297.95	1,151.60	5,734.40	4,880.60	0.02	-0.04	0.165
10.00	-41.49	-7.62	0.00	-717.46	0.00	717.46	4,248.67	1,129.19	5,513.42	4,730.12	0.09	-0.08	0.161
15.00	-40.15	-7.52	0.00	-679.38	0.00	679.38	4,198.03	1,106.78	5,296.78	4,580.35	0.20	-0.12	0.158
20.00	-38.83	-7.42	0.00	-641.79	0.00	641.79	4,146.02	1,084.37	5,084.48	4,431.38	0.35	-0.17	0.154
25.00	-37.53	-7.31	0.00	-604.69	0.00	604.69	4,092.65	1,061.97	4,876.53	4,283.29	0.55	-0.21	0.150
30.00	-36.26	-7.21	0.00	-568.11	0.00	568.11	4,037.92	1,039.56	4,672.92	4,136.18	0.79	-0.25	0.146
35.00	-35.00	-7.09	0.00	-532.09	0.00	532.09	3,981.83	1,017.15	4,473.65	3,990.14	1.08	-0.29	0.142
40.00	-33.77	-6.98	0.00	-496.62	0.00	496.62	3,924.37	994.74	4,278.72	3,845.25	1.41	-0.34	0.138
45.00	-32.56	-6.90	0.00	-461.74	0.00	461.74	3,865.54	972.33	4,088.13	3,701.62	1.78	-0.38	0.133
46.83	-32.12	-6.84	0.00	-449.10	0.00	449.10	3,843.63	964.11	4,019.34	3,649.29	1.93	-0.39	0.131
50.00	-30.77	-6.76	0.00	-427.45	0.00	427.45	3,805.35	949.92	3,901.89	3,559.34	2.20	-0.42	0.128
53.00	-29.51	-6.69	0.00	-407.17	0.00	407.17	3,811.38	952.14	3,920.15	3,573.37	2.47	-0.44	0.122
55.00	-29.04	-6.61	0.00	-393.79	0.00	393.79	3,786.98	943.18	3,846.70	3,516.80	2.66	-0.46	0.120
60.00	-27.88	-6.48	0.00	-360.76	0.00	360.76	3,725.02	920.77	3,666.10	3,376.39	3.16	-0.50	0.114
65.00	-26.74	-6.36	0.00	-328.35	0.00	328.35	3,661.69	898.36	3,489.85	3,237.53	3.71	-0.54	0.109
70.00	-25.63	-6.23	0.00	-296.57	0.00	296.57	3,597.00	875.95	3,317.94	3,100.32	4.29	-0.58	0.103
75.00	-24.53	-6.10	0.00	-265.42	0.00	265.42	3,530.95	853.54	3,150.37	2,964.84	4.92	-0.61	0.097
80.00	-23.46	-5.98	0.00	-234.91	0.00	234.91	3,463.54	831.13	2,987.14	2,831.19	5.58	-0.65	0.090
85.00	-22.41	-5.85	0.00	-205.03	0.00	205.03	3,394.76	808.72	2,828.25	2,699.44	6.27	-0.68	0.083
90.00	-19.84	-5.15	0.00	-175.79	0.00	175.79	3,324.61	786.31	2,673.70	2,569.71	7.00	-0.71	0.074
94.92	-18.90	-5.08	0.00	-150.48	0.00	150.48	3,235.43	764.28	2,525.97	2,430.01	7.75	-0.74	0.068
95.00	-18.87	-5.02	0.00	-150.06	0.00	150.06	3,233.85	763.90	2,523.50	2,427.62	7.76	-0.74	0.068
99.83	-17.37	-4.94	0.00	-125.80	0.00	125.80	2,561.72	630.50	2,062.81	1,907.75	8.52	-0.77	0.073
100.00	-15.68	-4.42	0.00	-124.97	0.00	124.97	2,559.96	629.88	2,058.74	1,904.54	8.55	-0.77	0.072
105.00	-14.89	-4.33	0.00	-102.88	0.00	102.88	2,506.38	611.20	1,938.49	1,808.92	9.37	-0.79	0.063
107.00	-14.36	-4.16	0.00	-94.23	0.00	94.23	2,484.57	603.73	1,891.40	1,771.07	9.70	-0.80	0.059
110.00	-13.90	-4.07	0.00	-81.75	0.00	81.75	2,451.44	592.53	1,821.86	1,714.73	10.21	-0.82	0.053
115.00	-10.16	-2.95	0.00	-61.11	0.00	61.11	2,395.13	573.85	1,708.85	1,622.06	11.08	-0.84	0.042
120.00	-9.47	-2.83	0.00	-46.38	0.00	46.38	2,337.45	555.18	1,599.45	1,531.01	11.97	-0.86	0.034
125.00	-6.29	-1.76	0.00	-32.25	0.00	32.25	2,271.21	536.51	1,493.68	1,437.09	12.87	-0.87	0.025
130.00	-5.71	-1.64	0.00	-23.45	0.00	23.45	2,192.15	517.83	1,391.52	1,338.31	13.79	-0.88	0.020
135.00	-5.14	-1.55	0.00	-15.22	0.00	15.22	2,113.10	499.16	1,292.98	1,243.04	14.72	-0.89	0.015
138.00	-3.14	-1.05	0.00	-10.57	0.00	10.57	2,065.67	487.95	1,235.60	1,187.57	15.28	-0.89	0.010
140.00	-2.94	-0.98	0.00	-8.47	0.00	8.47	2,034.04	480.48	1,198.06	1,151.29	15.65	-0.89	0.009
145.00	-2.44	-0.89	0.00	-3.58	0.00	3.58	1,954.99	461.81	1,106.76	1,063.05	16.59	-0.90	0.005
147.90	-0.17	-0.33	0.00	-1.00	0.00	1.00	1,909.14	450.98	1,055.46	1,013.49	17.13	-0.90	0.001
147.92	0.00	-0.32	0.00	-0.99	0.00	0.99	1,908.87	450.91	1,055.17	1,013.21	17.14	-0.90	0.001

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.05
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a:	1.60
Site Coeffiecient F_v:	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.15
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	1.83
Total Unfactored Dead Load:	44.00 k
Seismic Base Shear (E):	1.32 k

Load Case 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)
37	147.91	2	15	0.000	0	2
36	146.45	279	2,500	0.016	21	345
35	142.50	495	4,223	0.026	35	613
34	139.00	203	1,655	0.010	14	252
33	136.50	332	2,620	0.016	22	411
32	132.50	568	4,244	0.027	35	704
31	127.50	586	4,083	0.026	34	726
30	122.50	677	4,385	0.027	36	839
29	117.50	695	4,173	0.026	35	862
28	112.50	754	4,181	0.026	35	934
27	108.50	461	2,393	0.015	20	571
26	106.00	312	1,550	0.010	13	386
25	102.50	792	3,704	0.023	31	981
24	99.92	27	121	0.001	1	34
23	97.42	1,503	6,411	0.040	53	1,864
22	94.96	26	107	0.001	1	33
21	92.46	941	3,647	0.023	30	1,166
20	87.50	1,027	3,599	0.023	30	1,273
19	82.50	1,048	3,301	0.021	27	1,300
18	77.50	1,070	3,006	0.019	25	1,327
17	72.50	1,092	2,715	0.017	22	1,353
16	67.50	1,114	2,431	0.015	20	1,380
15	62.50	1,135	2,153	0.013	18	1,407
14	57.50	1,157	1,885	0.012	16	1,434
13	54.00	469	681	0.004	6	581

12	51.50	1,258	1,677	0.011	14	1,560
11	48.42	1,345	1,601	0.010	13	1,668
10	45.92	437	472	0.003	4	542
9	42.50	1,207	1,132	0.007	9	1,496
8	37.50	1,229	917	0.006	8	1,523
7	32.50	1,250	719	0.005	6	1,550
6	27.50	1,272	539	0.003	4	1,577
5	22.50	1,294	380	0.002	3	1,604
4	17.50	1,316	244	0.002	2	1,631
3	12.50	1,337	134	0.001	1	1,658
2	7.50	1,359	54	0.000	0	1,685
1	2.50	1,127	6	0.000	0	1,397
Andrew DB844H90E-XY	147.92	112	1,024	0.006	8	139
Andrew 844G65VTZASX	147.92	64	585	0.004	5	79
Flat Platform w/ Han	147.90	2,000	18,277	0.115	151	2,479
Generic 48" x 4" Pan	138.00	180	1,449	0.009	12	223
Flat Low Profile Pla	138.00	1,500	12,079	0.076	100	1,860
Ericsson KRY 112 144	125.00	33	222	0.001	2	41
Ericsson Radio 4449	125.00	225	1,512	0.009	13	279
Ericsson RRUS 4415 B	125.00	138	928	0.006	8	171
Ericsson Air6449 B41	125.00	312	2,097	0.013	17	387
Ericsson AIR 21, 1.3	125.00	275	1,845	0.012	15	340
Ericsson AIR32 B66Aa	125.00	397	2,666	0.017	22	492
Round T-Arm	125.00	750	5,042	0.032	42	930
RFS APXVAARR24_43-U-	125.00	384	2,579	0.016	21	476
Samsung B2/B66A RRH-	115.00	253	1,462	0.009	12	314
Samsung B5/B13 RRH-B	115.00	211	1,218	0.008	10	261
Raycap RCMDC-6627-PF	115.00	64	369	0.002	3	79
Samsung MT6407-77A	115.00	245	1,413	0.009	12	303
Amphenol Antel BXA-7	115.00	17	98	0.001	1	21
Amphenol Antel BXA-7	115.00	34	196	0.001	2	42
Commscope SBNHH-1D65	115.00	304	1,756	0.011	15	377
Generic Flat Low Pro	115.00	1,875	10,825	0.068	90	2,324
Antel BCD-87010 ___	107.00	26	134	0.001	1	33
Generic Flat Stand-O	107.00	188	949	0.006	8	232
Alcatel-Lucent RRH2x	100.00	317	1,420	0.009	12	393
Alcatel-Lucent 1900M	100.00	180	805	0.005	7	223
Generic Round T-Arm	100.00	938	4,194	0.026	35	1,162
Commscope NNVV-65B-R	100.00	232	1,039	0.007	9	288
DragonWave Horizon C	90.00	21	78	0.000	1	26
NextNet BTS-2500	90.00	105	388	0.002	3	130
Generic 18" x 18" x	90.00	21	78	0.000	1	26
Nokia 2.5G MAA - AAH	90.00	311	1,147	0.007	9	385
Andrew VHLP2-18	90.00	54	199	0.001	2	67
DragonWave A-ANT-18G	90.00	99	366	0.002	3	123
Generic Round T-Arm	90.00	938	3,460	0.022	29	1,162
		43,995	159,558	1.000	1,320	54,540

Load Case 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)
37	147.91	2	15	0.000	0	1
36	146.45	279	2,500	0.016	21	240
35	142.50	495	4,223	0.026	35	425
34	139.00	203	1,655	0.010	14	175
33	136.50	332	2,620	0.016	22	286
32	132.50	568	4,244	0.027	35	488
31	127.50	586	4,083	0.026	34	504
30	122.50	677	4,385	0.027	36	582
29	117.50	695	4,173	0.026	35	598

28	112.50	754	4,181	0.026	35	648
27	108.50	461	2,393	0.015	20	397
26	106.00	312	1,550	0.010	13	268
25	102.50	792	3,704	0.023	31	681
24	99.92	27	121	0.001	1	23
23	97.42	1,503	6,411	0.040	53	1,293
22	94.96	26	107	0.001	1	23
21	92.46	941	3,647	0.023	30	809
20	87.50	1,027	3,599	0.023	30	883
19	82.50	1,048	3,301	0.021	27	902
18	77.50	1,070	3,006	0.019	25	921
17	72.50	1,092	2,715	0.017	22	939
16	67.50	1,114	2,431	0.015	20	958
15	62.50	1,135	2,153	0.013	18	977
14	57.50	1,157	1,885	0.012	16	995
13	54.00	469	681	0.004	6	403
12	51.50	1,258	1,677	0.011	14	1,083
11	48.42	1,345	1,601	0.010	13	1,157
10	45.92	437	472	0.003	4	376
9	42.50	1,207	1,132	0.007	9	1,038
8	37.50	1,229	917	0.006	8	1,057
7	32.50	1,250	719	0.005	6	1,076
6	27.50	1,272	539	0.003	4	1,094
5	22.50	1,294	380	0.002	3	1,113
4	17.50	1,316	244	0.002	2	1,132
3	12.50	1,337	134	0.001	1	1,150
2	7.50	1,359	54	0.000	0	1,169
1	2.50	1,127	6	0.000	0	970
Andrew DB844H90E-XY	147.92	112	1,024	0.006	8	96
Andrew 844G65VTZASX	147.92	64	585	0.004	5	55
Flat Platform w/ Han	147.90	2,000	18,277	0.115	151	1,721
Generic 48" x 4" Pan	138.00	180	1,449	0.009	12	155
Flat Low Profile Pla	138.00	1,500	12,079	0.076	100	1,290
Ericsson KRY 112 144	125.00	33	222	0.001	2	28
Ericsson Radio 4449	125.00	225	1,512	0.009	13	194
Ericsson RRUS 4415 B	125.00	138	928	0.006	8	119
Ericsson Air6449 B41	125.00	312	2,097	0.013	17	268
Ericsson AIR 21, 1.3	125.00	275	1,845	0.012	15	236
Ericsson AIR32 B66Aa	125.00	397	2,666	0.017	22	341
Round T-Arm	125.00	750	5,042	0.032	42	645
RFS APXVAARR24_43-U-	125.00	384	2,579	0.016	21	330
Samsung B2/B66A RRH-	115.00	253	1,462	0.009	12	218
Samsung B5/B13 RRH-B	115.00	211	1,218	0.008	10	181
Raycap RCMDC-6627-PF	115.00	64	369	0.002	3	55
Samsung MT6407-77A	115.00	245	1,413	0.009	12	211
Amphenol Antel BXA-7	115.00	17	98	0.001	1	15
Amphenol Antel BXA-7	115.00	34	196	0.001	2	29
Commscope SBNHH-1D65	115.00	304	1,756	0.011	15	262
Generic Flat Low Pro	115.00	1,875	10,825	0.068	90	1,613
Antel BCD-87010 ___	107.00	26	134	0.001	1	23
Generic Flat Stand-O	107.00	188	949	0.006	8	161
Alcatel-Lucent RRH2x	100.00	317	1,420	0.009	12	273
Alcatel-Lucent 1900M	100.00	180	805	0.005	7	155
Generic Round T-Arm	100.00	938	4,194	0.026	35	807
Commscope NNVV-65B-R	100.00	232	1,039	0.007	9	200
DragonWave Horizon C	90.00	21	78	0.000	1	18
NextNet BTS-2500	90.00	105	388	0.002	3	90
Generic 18" x 18" x	90.00	21	78	0.000	1	18
Nokia 2.5G MAA - AAH	90.00	311	1,147	0.007	9	267
Andrew VHLP2-18	90.00	54	199	0.001	2	46
DragonWave A-ANT-18G	90.00	99	366	0.002	3	85
Generic Round T-Arm	90.00	938	3,460	0.022	29	807
		43,995	159,558	1.000	1,320	37,850

Load Case 1.2D + 1.0Ev + 1.0Eh Seismic

Calculated Forces

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	-53.14	-1.32	0.00	-153.36	0.00	153.36	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.043
5.00	-51.46	-1.33	0.00	-146.74	0.00	146.74	4,297.95	1,151.60	5,734.40	4,880.60	0.00	-0.01	0.042
10.00	-49.80	-1.33	0.00	-140.10	0.00	140.10	4,248.67	1,129.19	5,513.42	4,730.12	0.02	-0.02	0.041
15.00	-48.17	-1.34	0.00	-133.42	0.00	133.42	4,198.03	1,106.78	5,296.78	4,580.35	0.04	-0.02	0.041
20.00	-46.56	-1.34	0.00	-126.73	0.00	126.73	4,146.02	1,084.37	5,084.48	4,431.38	0.07	-0.03	0.040
25.00	-44.99	-1.34	0.00	-120.02	0.00	120.02	4,092.65	1,061.97	4,876.53	4,283.29	0.11	-0.04	0.039
30.00	-43.44	-1.34	0.00	-113.30	0.00	113.30	4,037.92	1,039.56	4,672.92	4,136.18	0.15	-0.05	0.038
35.00	-41.91	-1.34	0.00	-106.59	0.00	106.59	3,981.83	1,017.15	4,473.65	3,990.14	0.21	-0.06	0.037
40.00	-40.42	-1.33	0.00	-99.90	0.00	99.90	3,924.37	994.74	4,278.72	3,845.25	0.28	-0.07	0.036
45.00	-39.87	-1.33	0.00	-93.22	0.00	93.22	3,865.54	972.33	4,088.13	3,701.62	0.35	-0.07	0.036
46.83	-38.21	-1.32	0.00	-90.78	0.00	90.78	3,843.63	964.11	4,019.34	3,649.29	0.38	-0.08	0.035
50.00	-36.65	-1.31	0.00	-86.60	0.00	86.60	3,805.35	949.92	3,901.89	3,559.34	0.43	-0.08	0.034
53.00	-36.07	-1.30	0.00	-82.67	0.00	82.67	3,811.38	952.14	3,920.15	3,573.37	0.49	-0.09	0.033
55.00	-34.63	-1.29	0.00	-80.06	0.00	80.06	3,786.98	943.18	3,846.70	3,516.80	0.52	-0.09	0.032
60.00	-33.22	-1.27	0.00	-73.61	0.00	73.61	3,725.02	920.77	3,666.10	3,376.39	0.62	-0.10	0.031
65.00	-31.84	-1.26	0.00	-67.24	0.00	67.24	3,661.69	898.36	3,489.85	3,237.53	0.73	-0.11	0.029
70.00	-30.49	-1.24	0.00	-60.95	0.00	60.95	3,597.00	875.95	3,317.94	3,100.32	0.85	-0.12	0.028
75.00	-29.16	-1.21	0.00	-54.78	0.00	54.78	3,530.95	853.54	3,150.37	2,964.84	0.97	-0.12	0.027
80.00	-27.86	-1.18	0.00	-48.72	0.00	48.72	3,463.54	831.13	2,987.14	2,831.19	1.11	-0.13	0.025
85.00	-26.59	-1.16	0.00	-42.80	0.00	42.80	3,394.76	808.72	2,828.25	2,699.44	1.25	-0.14	0.024
90.00	-23.50	-1.07	0.00	-37.02	0.00	37.02	3,324.61	786.31	2,673.70	2,569.71	1.39	-0.14	0.021
94.92	-23.47	-1.07	0.00	-31.74	0.00	31.74	3,235.43	764.28	2,525.97	2,430.01	1.54	-0.15	0.020
95.00	-21.61	-1.02	0.00	-31.66	0.00	31.66	3,233.85	763.90	2,523.50	2,427.62	1.55	-0.15	0.020
99.83	-21.57	-1.02	0.00	-26.74	0.00	26.74	2,561.72	630.50	2,062.81	1,907.75	1.70	-0.15	0.022
100.00	-18.53	-0.92	0.00	-26.57	0.00	26.57	2,559.96	629.88	2,058.74	1,904.54	1.70	-0.15	0.021
105.00	-18.14	-0.90	0.00	-21.99	0.00	21.99	2,506.38	611.20	1,938.49	1,808.92	1.87	-0.16	0.019
107.00	-17.30	-0.87	0.00	-20.18	0.00	20.18	2,484.57	603.73	1,891.40	1,771.07	1.94	-0.16	0.018
110.00	-16.37	-0.84	0.00	-17.56	0.00	17.56	2,451.44	592.53	1,821.86	1,714.73	2.04	-0.17	0.017
115.00	-11.79	-0.65	0.00	-13.37	0.00	13.37	2,395.13	573.85	1,708.85	1,622.06	2.22	-0.17	0.013
120.00	-10.95	-0.61	0.00	-10.14	0.00	10.14	2,337.45	555.18	1,599.45	1,531.01	2.40	-0.17	0.011
125.00	-7.11	-0.42	0.00	-7.09	0.00	7.09	2,271.21	536.51	1,493.68	1,437.09	2.58	-0.18	0.008
130.00	-6.40	-0.39	0.00	-4.97	0.00	4.97	2,192.15	517.83	1,391.52	1,338.31	2.77	-0.18	0.007
135.00	-5.99	-0.36	0.00	-3.03	0.00	3.03	2,113.10	499.16	1,292.98	1,243.04	2.96	-0.18	0.005
138.00	-3.66	-0.23	0.00	-1.94	0.00	1.94	2,065.67	487.95	1,235.60	1,187.57	3.07	-0.18	0.003
140.00	-3.04	-0.19	0.00	-1.48	0.00	1.48	2,034.04	480.48	1,198.06	1,151.29	3.15	-0.18	0.003
145.00	-2.70	-0.17	0.00	-0.50	0.00	0.50	1,954.99	461.81	1,106.76	1,063.05	3.34	-0.18	0.002
147.90	0.00	0.00	0.00	0.00	0.00	0.00	1,909.14	450.98	1,055.46	1,013.49	3.45	-0.18	0.000
147.92	0.00	0.00	0.00	0.00	0.00	0.00	1,908.87	450.91	1,055.17	1,013.21	3.45	-0.18	0.000

Load Case 0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

Calculated Forces

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	-36.88	-1.32	0.00	-151.45	0.00	151.45	4,345.86	1,174.01	5,959.72	5,031.69	0.00	0.00	0.039
5.00	-35.71	-1.33	0.00	-144.84	0.00	144.84	4,297.95	1,151.60	5,734.40	4,880.60	0.00	-0.01	0.038
10.00	-34.56	-1.33	0.00	-138.21	0.00	138.21	4,248.67	1,129.19	5,513.42	4,730.12	0.02	-0.02	0.037
15.00	-33.43	-1.33	0.00	-131.57	0.00	131.57	4,198.03	1,106.78	5,296.78	4,580.35	0.04	-0.02	0.037
20.00	-32.31	-1.33	0.00	-124.91	0.00	124.91	4,146.02	1,084.37	5,084.48	4,431.38	0.07	-0.03	0.036
25.00	-31.22	-1.33	0.00	-118.24	0.00	118.24	4,092.65	1,061.97	4,876.53	4,283.29	0.11	-0.04	0.035
30.00	-30.14	-1.33	0.00	-111.58	0.00	111.58	4,037.92	1,039.56	4,672.92	4,136.18	0.15	-0.05	0.034
35.00	-29.09	-1.33	0.00	-104.94	0.00	104.94	3,981.83	1,017.15	4,473.65	3,990.14	0.21	-0.06	0.034
40.00	-28.05	-1.32	0.00	-98.31	0.00	98.31	3,924.37	994.74	4,278.72	3,845.25	0.27	-0.07	0.033
45.00	-27.67	-1.32	0.00	-91.72	0.00	91.72	3,865.54	972.33	4,088.13	3,701.62	0.34	-0.07	0.032
46.83	-26.51	-1.30	0.00	-89.30	0.00	89.30	3,843.63	964.11	4,019.34	3,649.29	0.37	-0.08	0.031
50.00	-25.43	-1.29	0.00	-85.17	0.00	85.17	3,805.35	949.92	3,901.89	3,559.34	0.43	-0.08	0.031
53.00	-25.03	-1.29	0.00	-81.30	0.00	81.30	3,811.38	952.14	3,920.15	3,573.37	0.48	-0.09	0.029
55.00	-24.03	-1.27	0.00	-78.73	0.00	78.73	3,786.98	943.18	3,846.70	3,516.80	0.52	-0.09	0.029
60.00	-23.06	-1.26	0.00	-72.37	0.00	72.37	3,725.02	920.77	3,666.10	3,376.39	0.62	-0.10	0.028
65.00	-22.10	-1.24	0.00	-66.09	0.00	66.09	3,661.69	898.36	3,489.85	3,237.53	0.72	-0.11	0.026
70.00	-21.16	-1.22	0.00	-59.90	0.00	59.90	3,597.00	875.95	3,317.94	3,100.32	0.84	-0.11	0.025
75.00	-20.24	-1.19	0.00	-53.82	0.00	53.82	3,530.95	853.54	3,150.37	2,964.84	0.96	-0.12	0.024
80.00	-19.34	-1.16	0.00	-47.87	0.00	47.87	3,463.54	831.13	2,987.14	2,831.19	1.09	-0.13	0.022
85.00	-18.45	-1.13	0.00	-42.05	0.00	42.05	3,394.76	808.72	2,828.25	2,699.44	1.23	-0.13	0.021
90.00	-16.31	-1.05	0.00	-36.37	0.00	36.37	3,324.61	786.31	2,673.70	2,569.71	1.37	-0.14	0.019
94.92	-16.29	-1.05	0.00	-31.19	0.00	31.19	3,235.43	764.28	2,525.97	2,430.01	1.52	-0.15	0.018
95.00	-15.00	-1.00	0.00	-31.10	0.00	31.10	3,233.85	763.90	2,523.50	2,427.62	1.52	-0.15	0.017
99.83	-14.97	-1.00	0.00	-26.28	0.00	26.28	2,561.72	630.50	2,062.81	1,907.75	1.67	-0.15	0.020
100.00	-12.86	-0.90	0.00	-26.11	0.00	26.11	2,559.96	629.88	2,058.74	1,904.54	1.68	-0.15	0.019
105.00	-12.59	-0.89	0.00	-21.61	0.00	21.61	2,506.38	611.20	1,938.49	1,808.92	1.84	-0.16	0.017
107.00	-12.01	-0.86	0.00	-19.83	0.00	19.83	2,484.57	603.73	1,891.40	1,771.07	1.91	-0.16	0.016
110.00	-11.36	-0.82	0.00	-17.26	0.00	17.26	2,451.44	592.53	1,821.86	1,714.73	2.01	-0.16	0.015
115.00	-8.18	-0.64	0.00	-13.15	0.00	13.15	2,395.13	573.85	1,708.85	1,622.06	2.18	-0.17	0.012
120.00	-7.60	-0.60	0.00	-9.97	0.00	9.97	2,337.45	555.18	1,599.45	1,531.01	2.36	-0.17	0.010
125.00	-4.93	-0.42	0.00	-6.97	0.00	6.97	2,271.21	536.51	1,493.68	1,437.09	2.54	-0.17	0.007
130.00	-4.44	-0.38	0.00	-4.89	0.00	4.89	2,192.15	517.83	1,391.52	1,338.31	2.73	-0.18	0.006
135.00	-4.16	-0.36	0.00	-2.98	0.00	2.98	2,113.10	499.16	1,292.98	1,243.04	2.91	-0.18	0.004
138.00	-2.54	-0.23	0.00	-1.91	0.00	1.91	2,065.67	487.95	1,235.60	1,187.57	3.02	-0.18	0.003
140.00	-2.11	-0.19	0.00	-1.45	0.00	1.45	2,034.04	480.48	1,198.06	1,151.29	3.10	-0.18	0.002
145.00	-1.87	-0.17	0.00	-0.49	0.00	0.49	1,954.99	461.81	1,106.76	1,063.05	3.29	-0.18	0.001
147.90	0.00	0.00	0.00	0.00	0.00	0.00	1,909.14	450.98	1,055.46	1,013.49	3.40	-0.18	0.000
147.92	0.00	0.00	0.00	0.00	0.00	0.00	1,908.87	450.91	1,055.17	1,013.21	3.40	-0.18	0.000

Analysis Summary

	Reactions						Max Usage	
Load Case	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	33.15	0.00	52.74	0.00	0.00	3399.15	0.00	0.69
0.9D + 1.0W	33.13	0.00	39.54	0.00	0.00	3365.01	0.00	0.68
1.2D + 1.0Di + 1.0Wi	9.69	0.00	82.93	0.00	0.00	998.64	0.00	0.22
1.2D + 1.0Ev + 1.0Eh	1.32	0.00	53.14	0.00	0.00	153.36	0.00	0.04
0.9D - 1.0Ev + 1.0Eh	1.32	0.00	36.88	0.00	0.00	151.45	0.00	0.04
1.0D + 1.0W	7.80	0.00	43.99	0.00	0.00	794.99	0.00	0.17

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Mt. Laurel, NJ 08054
(856) 797-0412
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Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10079717
Maser Consulting Connecticut Project #: 21777452A REV 1

July 2, 2021

Site Information	*Site ID:*	*467518-VZW / HARTFORD N CT*
	Site Name:	*HARTFORD N CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*305 West Service Rd* *Hartford, Connecticut 06120* *Hartford County*
	Latitude:	*41.798055°*
	Longitude:	*-72.655833°*
Structure Information	*Tower Type:*	*180-Ft Self Support*
	Mount Type:	*14.00-Ft Platform*

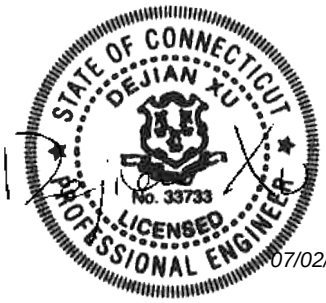
FUZE ID # 16274265

Analysis Results

Platform: **97.7% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Jared Adkins



07/02/2021

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: 324054, dated March 16, 2021*
Mount Mapping Report	*RKS Design & Engineering LLC., Site ID: ATC:302466 Dated March 29, 2021*
Previous Construction Drawings	*American Tower Corp., Site ID: 302466, dated August 28, 2018*
Closeout Photos	*Dated May 7, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	117 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.999
Seismic Parameters:	S_S:	0.186
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	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
113.50	115.00	6	Commscope	SBNHH-1D65B	Retained
		2	Amphenol Antel	BXA-70063-6CF-EDIN-4	
		1	Amphenol Antel	BXA-70063-6CF-EDIN-2	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RRFDC-3315-PF-48	
		3	Samsung	MT6407-77A	Added

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 Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 by Maser Consulting Connecticut, 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. Maser Consulting Connecticut 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:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff	44.6%	Pass
Grating Angle	10.8%	Pass
Cross Members	47.6%	Pass
Face Horizontal	97.7%	Pass
Mount Pipe	44.9%	Pass
MOD Support Rail	42.8%	Pass
MOD Face Vertical	6.7%	Pass
Connection Check	93.5%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**97.7%**

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA 222-H Wind Speed Usage Letter


05/07/2021 13:52


TOP SOIL
SAND
05/07/2021 13:18

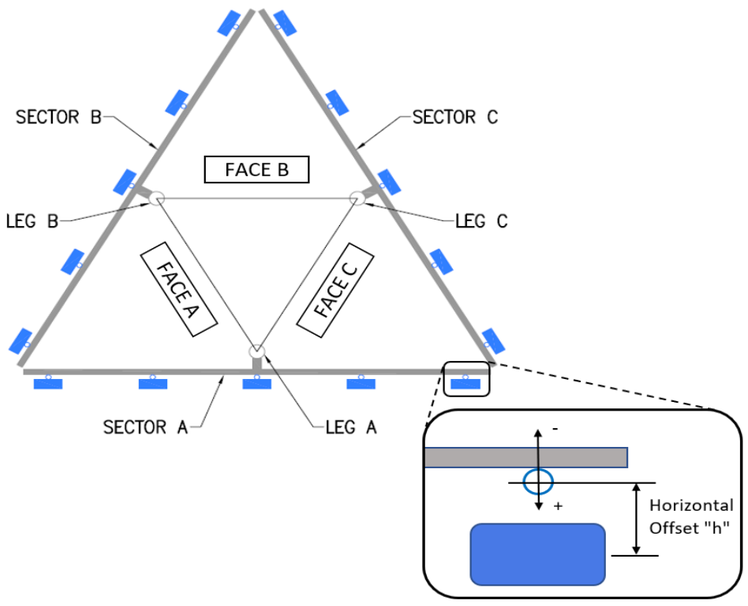
V3.0 Updated on 8-31-2020

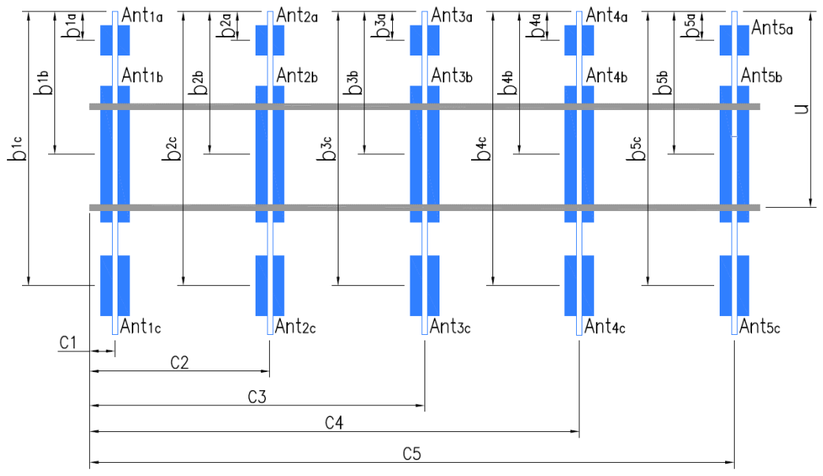
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1279925

Tower Owner:	ATC	**Mapping Date:**	3/29/2021
Site Name:	ATC:UNKNOWN, VZW: Hartford N Ct.	**Tower Type:**	Monopole
Site Number or ID:	ATC: 302466	**Tower Height (Ft.):**	180
Mapping Contractor:	RKS Design & Engineering LLC.	**Mount Elevation (Ft.):**	115.75

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





Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

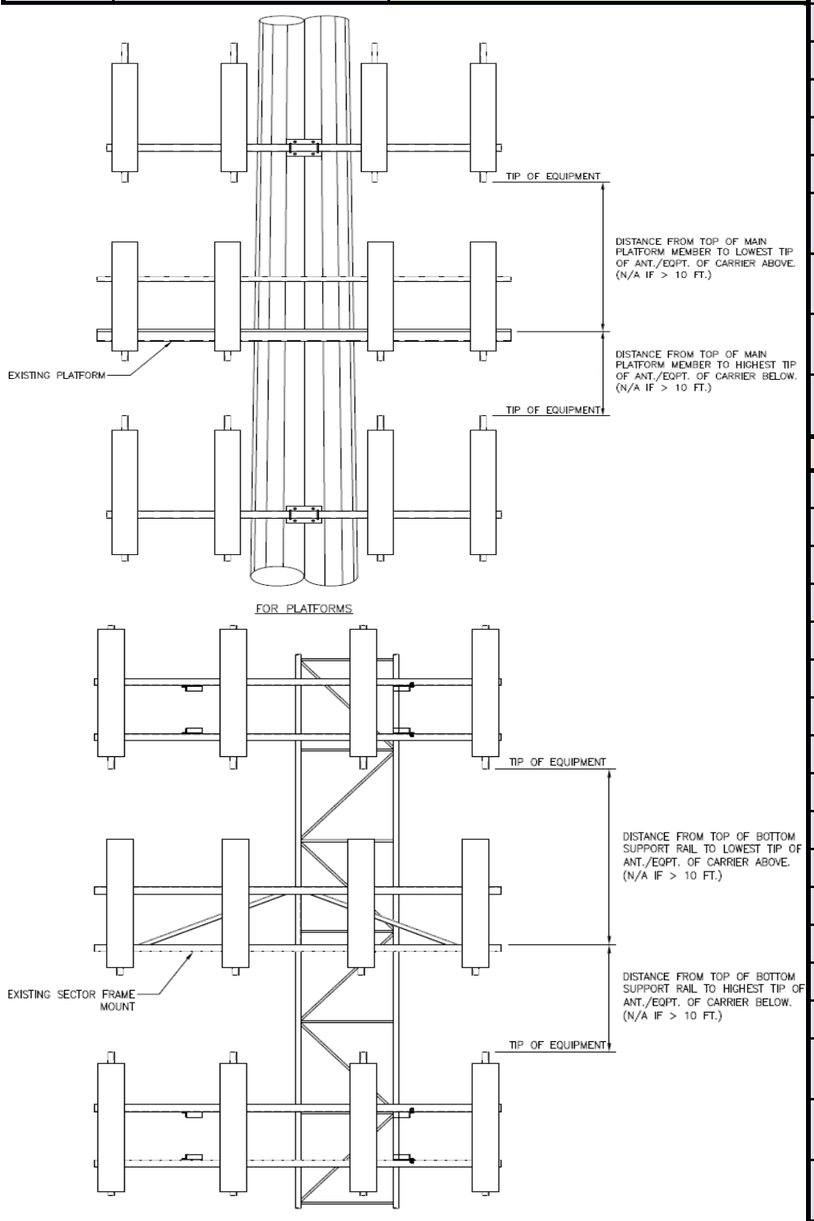
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	24.00	C1	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	24.00
A2	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	78.00	C2	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	78.00
A3	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	118.00	C3	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	118.00
A4	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	143.00	C4	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	143.00
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	24.00	D1			
B2	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	78.00	D2			
B3	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	118.00	D3			
B4	PIPE 2.375"Ø X 0.15" X 84" Long	46.00	143.00	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. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	
Tower Face Width at Mount Elev. (ft.):	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): 33.75

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	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}	B66a RRH 4X45	11.80	7.20	26.00		118.5	13.00	-6.80		161
Ant_{1b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	10.50	0.00	10, 161
Ant_{1c}										
Ant_{2a}	B13 RRH4X30	12.00	7.50	21.00		117.708	22.50	-7.00		163
Ant_{2b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.792	33.50	9.50	0.00	10, 163
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	8.50	0.00	10, 163
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.667	35.00	8.50	0.00	10, 163
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.50			36.75	6.00		162
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	30.00	Deg	Leg A:		Deg
Sector B:	150.00	Deg	Leg B:		Deg
Sector C:	270.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	90.00 Deg	N/A
Climbing Facility	Corrosion Type:	N/A
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}	B66a RRH 4X45	11.80	7.20	26.00		118.5	13.00	-6.80		164
Ant_{1b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	10.50	150.00	16, 164
Ant_{1c}										
Ant_{2a}	B13 RRH4X30	12.00	7.50	21.00		117.708	22.50	-7.00		165
Ant_{2b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.792	33.50	9.50	150.00	16, 165
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	8.50	150.00	16, 166
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.667	35.00	8.50	150.00	16, 166,167
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	B66a RRH 4X45	11.80	7.20	26.00		118.5	13.00	-6.80		168
Ant_{1b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	10.50	260.00	22, 168
Ant_{1c}										
Ant_{2a}	B13 RRH4X30	12.00	7.50	21.00		117.708	22.50	-7.00		169
Ant_{2b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.792	33.50	9.50	270.00	22, 169
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00		116.917	32.00	8.50	270.00	22, 170
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	BXA-70063-6CF-EDIN-	11.20	5.20	71.00		116.667	35.00	8.50	260.00	22, 171
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1	COAX TOTAL (18): (12) FH 1 5/8, (6) 1.55"Ø	
2		
3		
4		
5		
6		
7		
8		

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.

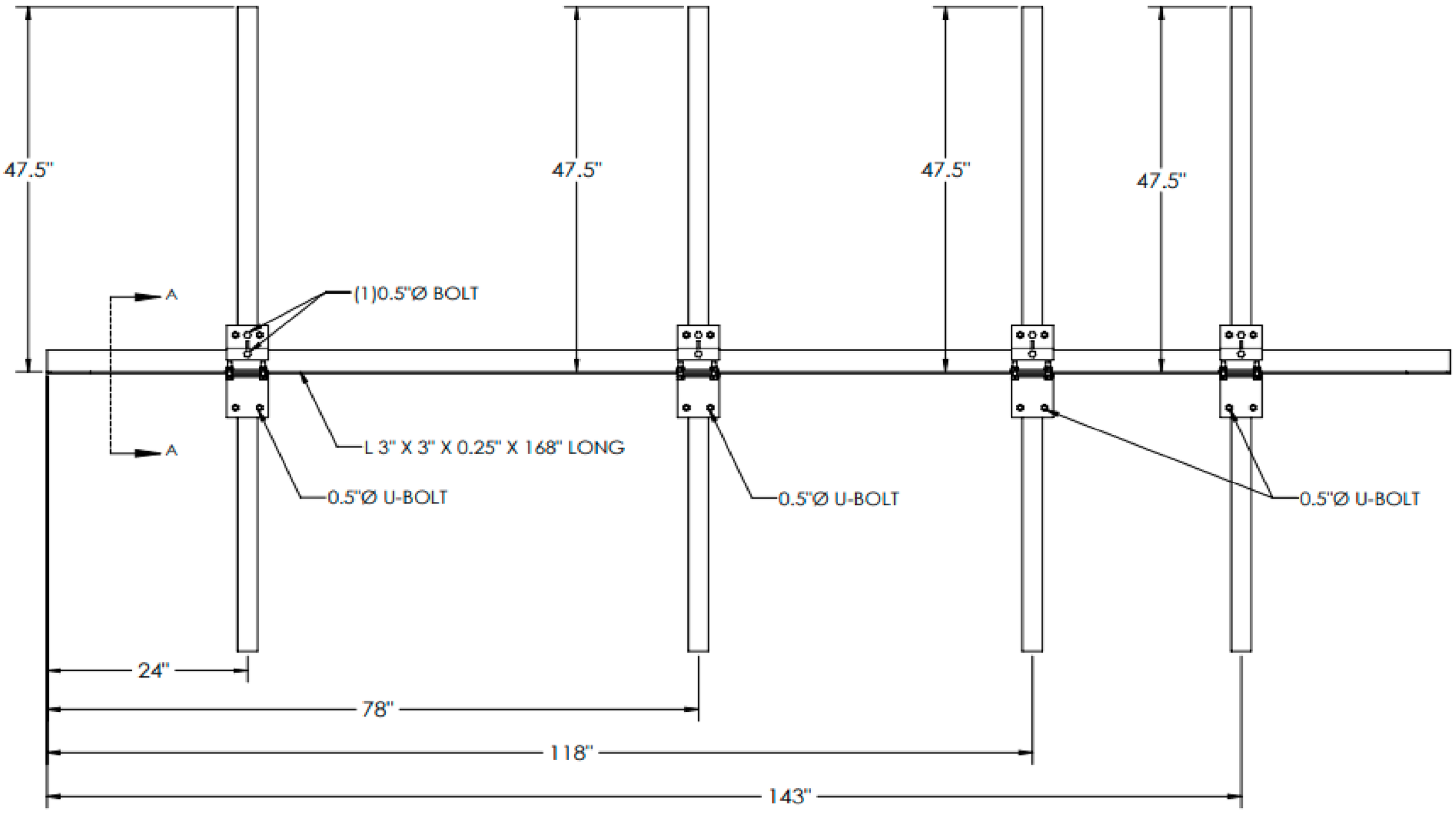
V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

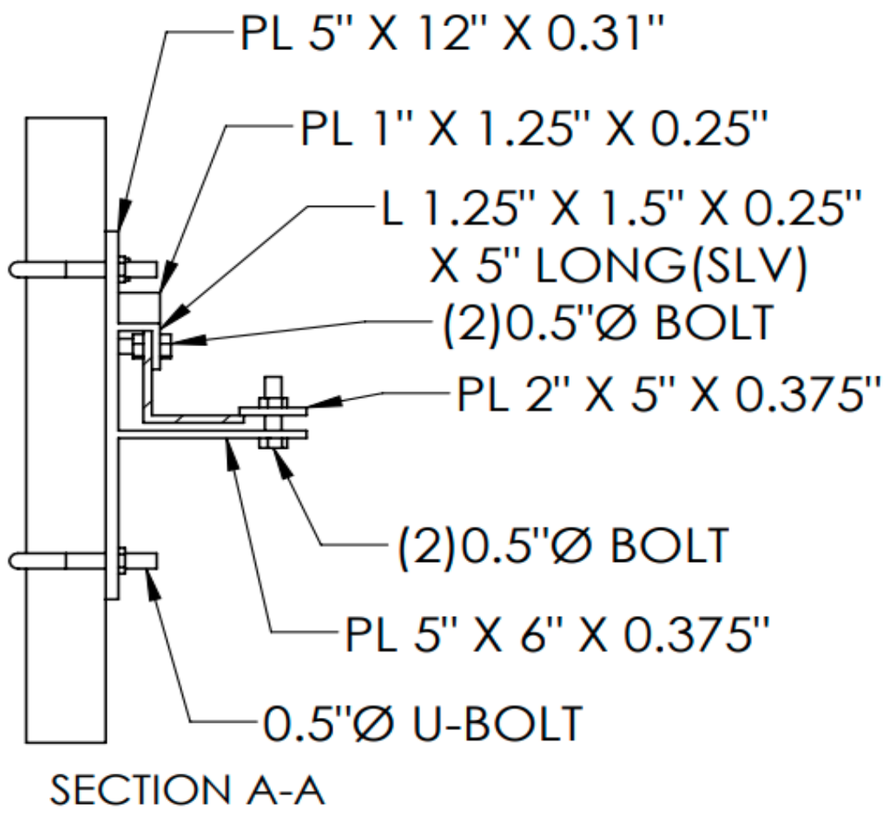
FCC #
1279925

Tower Owner:	ATC	**Mapping Date:**	3/29/2021
Site Name:	ATC:UNKNOWN, VZW: Hartford N Ct.	**Tower Type:**	Monopole
Site Number or ID:	ATC: 302466	**Tower Height (Ft.):**	180
Mapping Contractor:	RKS Design & Engineering LLC.	**Mount Elevation (Ft.):**	115.75

Please Insert Sketches of the Antenna Mount

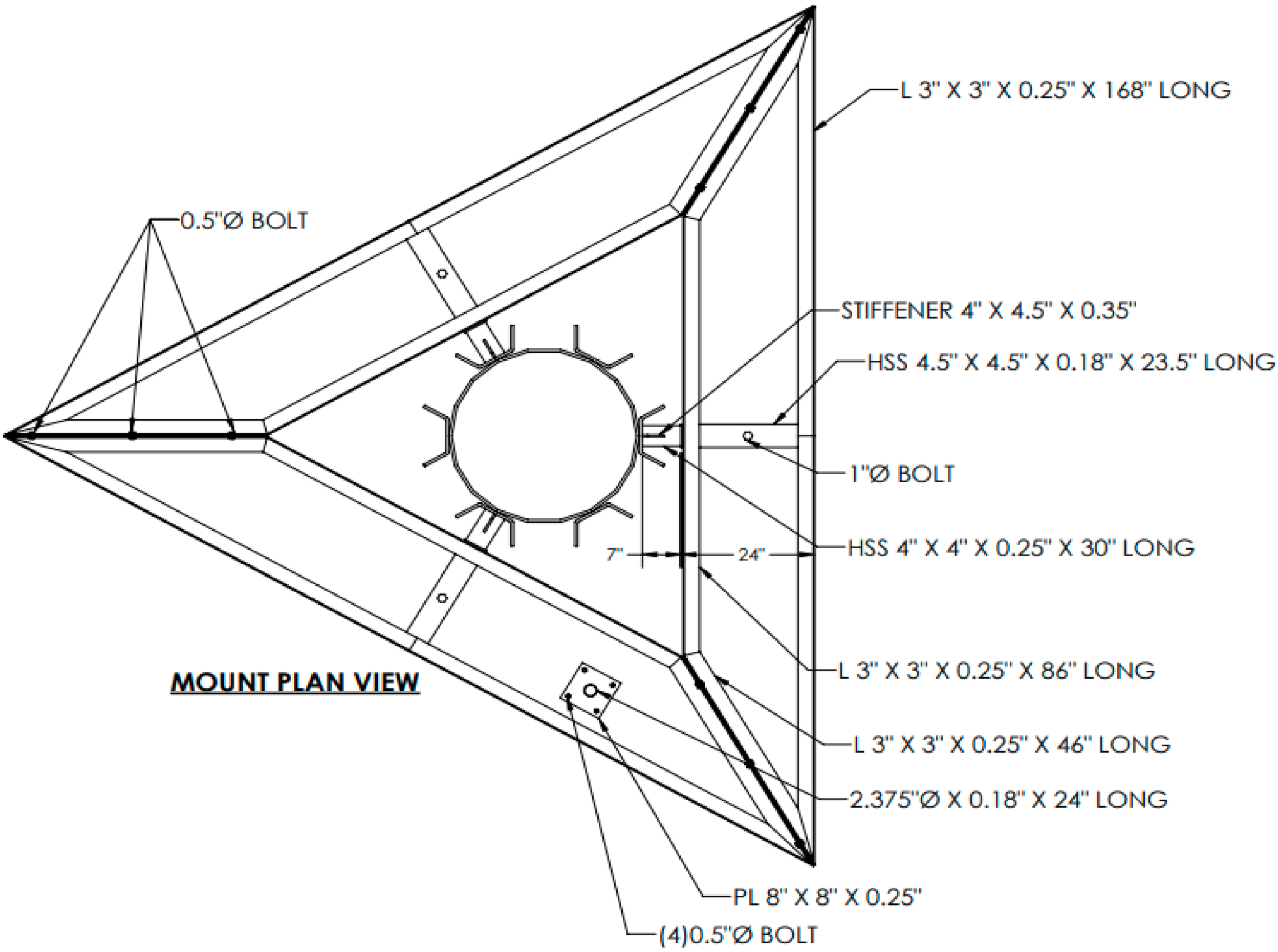


SECTION:A-B-C



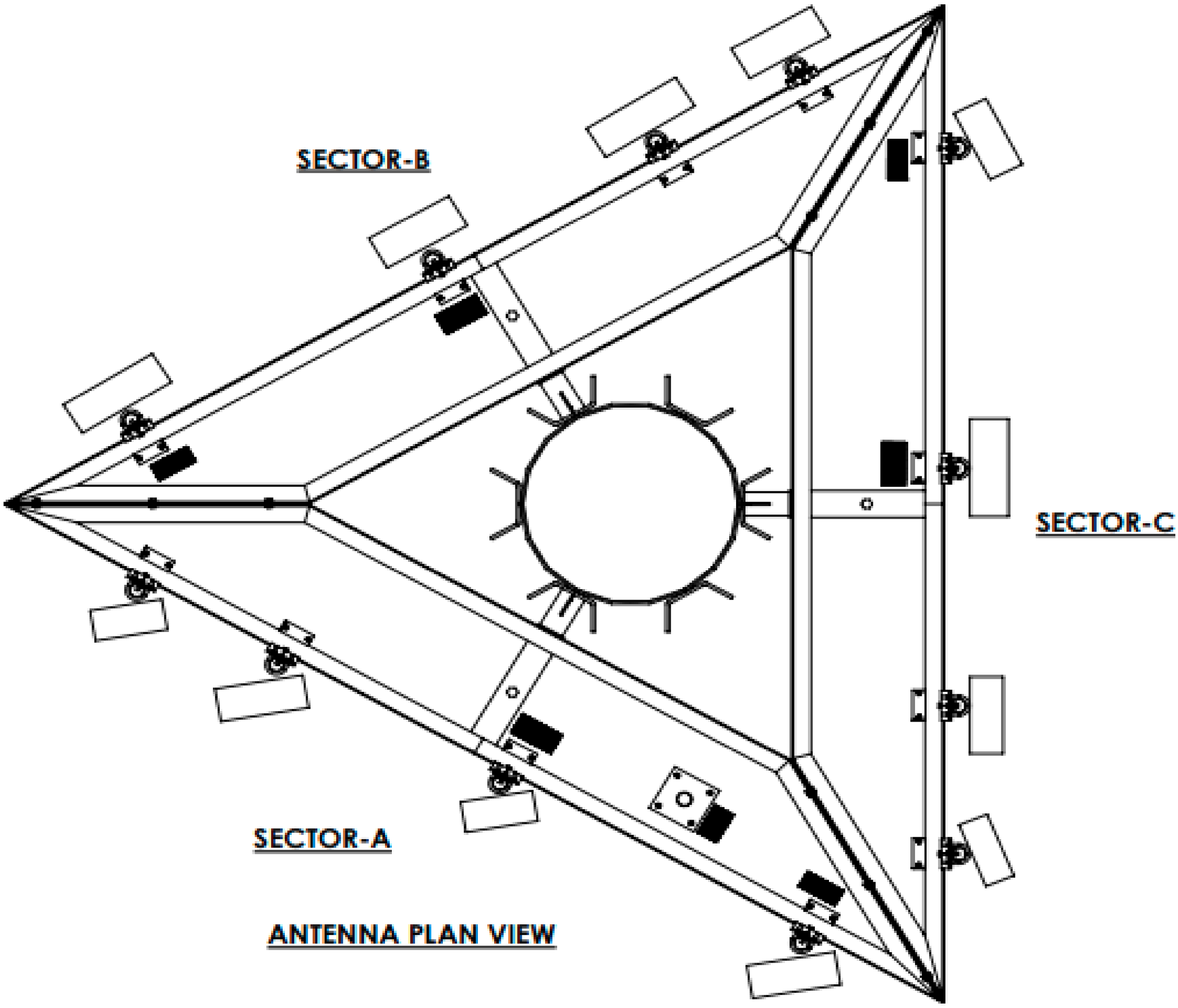
SECTION A-A

Please Insert Sketches of the Antenna Mount, cont'd

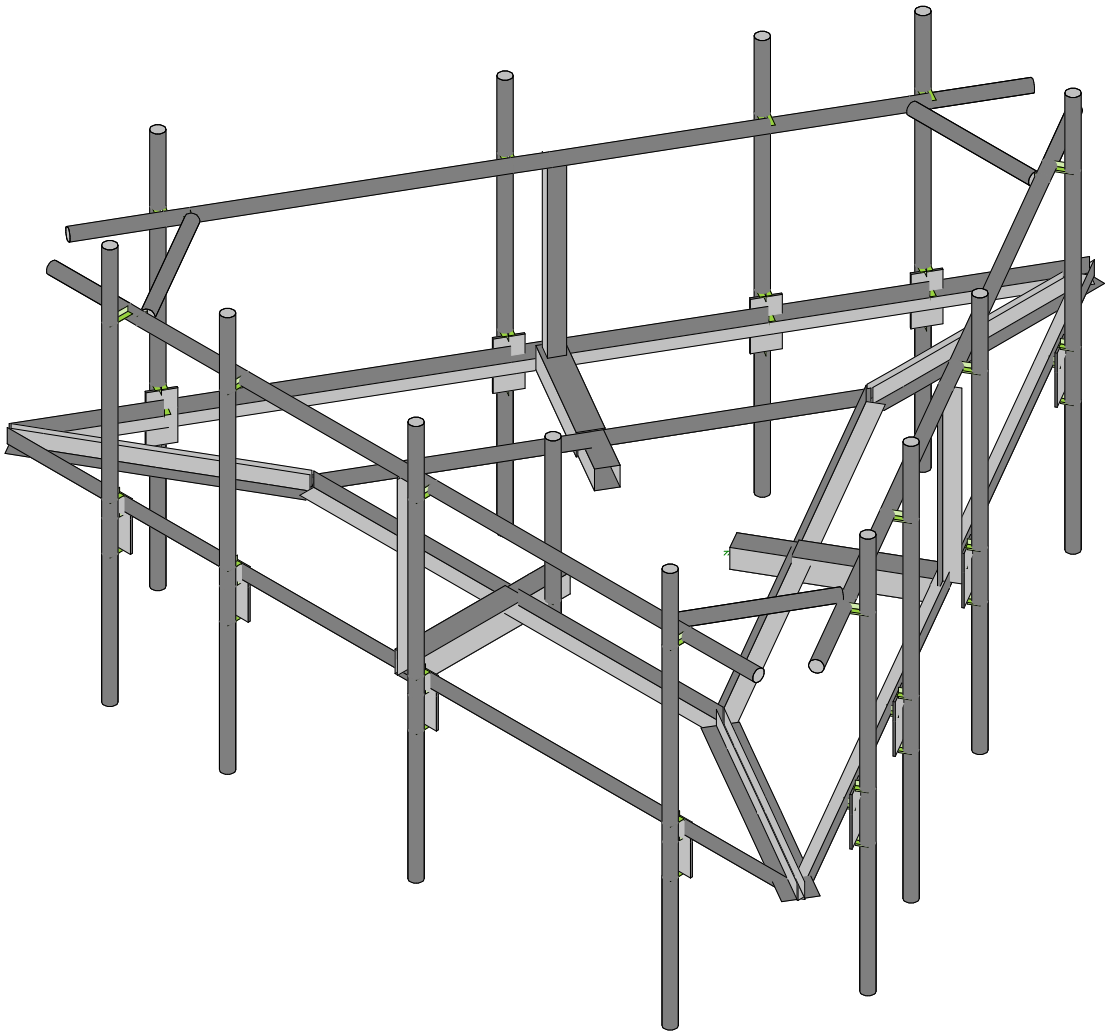


MOUNT PLAN VIEW

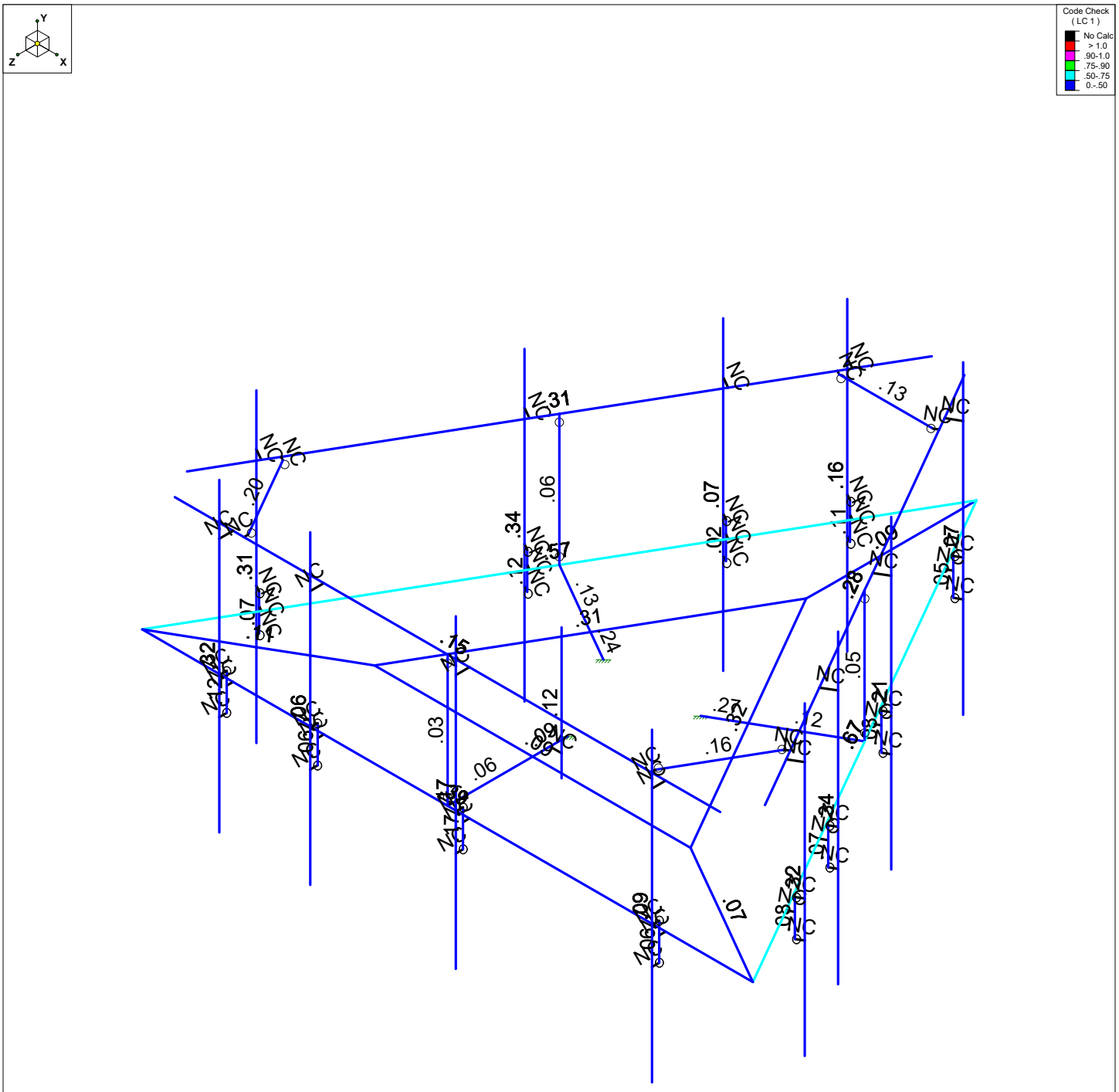
Please Insert Sketches of the Antenna Mount, cont'd



ANTENNA PLAN VIEW

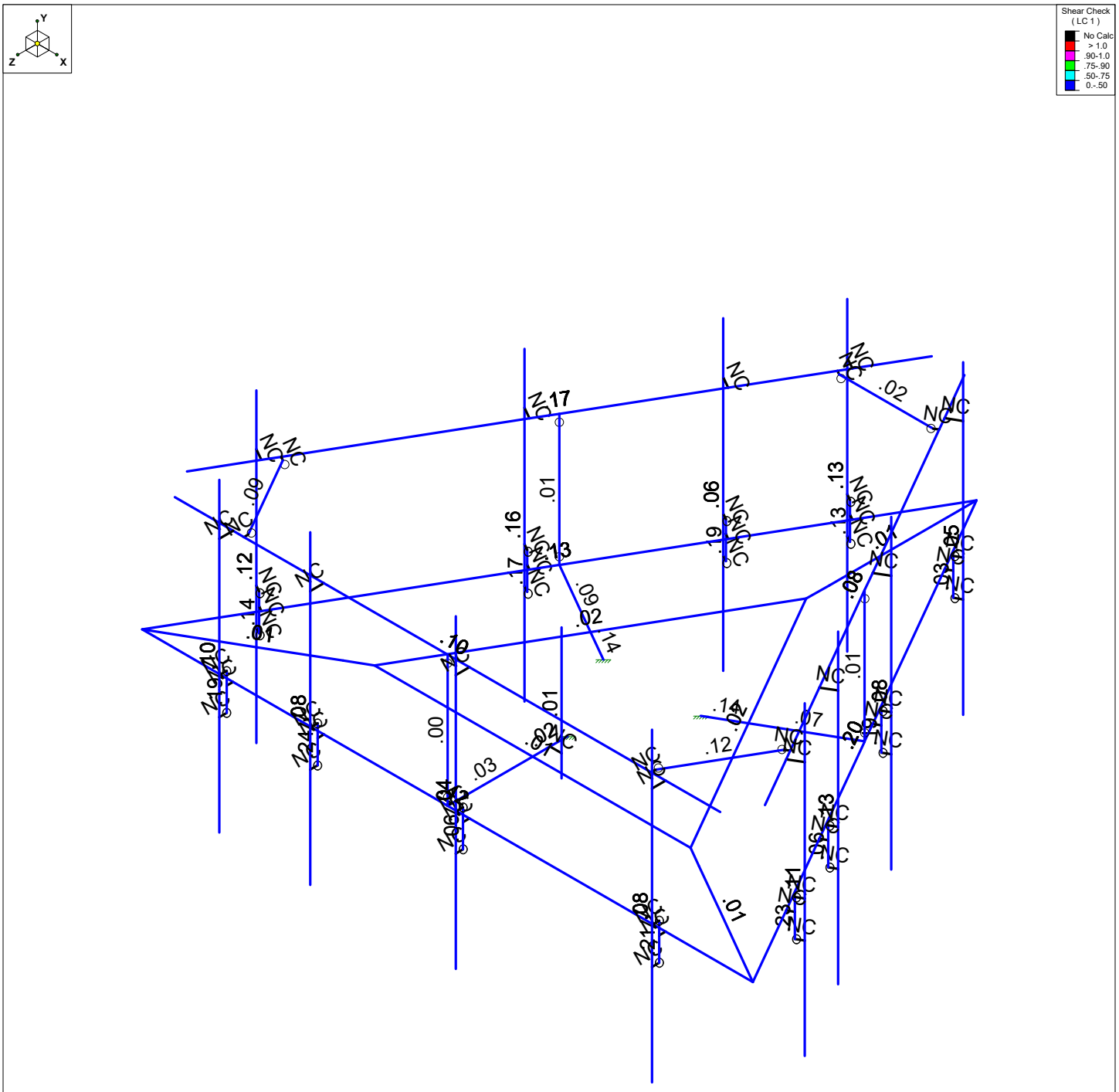


Maser Consulting	467518-VZW_MT_LO_H	SK - 2
		July 2, 2021 at 12:41 PM
		467518-VZW_MT_LO_H-MSKI.r3d



Member Code Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	467518-VZW_MT_LO_H	SK - 3
		July 2, 2021 at 12:42 PM
		467518-VZW_MT_LO_H-MSKI.r3d



Member Shear Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	467518-VZW_MT_LO_H	SK - 4
		July 2, 2021 at 12:42 PM
		467518-VZW_MT_LO_H-MSKI.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					93			
2	Antenna Di	None					93			
3	Antenna Wo (0 Deg)	None					93			
4	Antenna Wo (30 Deg)	None					93			
5	Antenna Wo (60 Deg)	None					93			
6	Antenna Wo (90 Deg)	None					93			
7	Antenna Wo (120 Deg)	None					93			
8	Antenna Wo (150 Deg)	None					93			
9	Antenna Wo (180 Deg)	None					93			
10	Antenna Wo (210 Deg)	None					93			
11	Antenna Wo (240 Deg)	None					93			
12	Antenna Wo (270 Deg)	None					93			
13	Antenna Wo (300 Deg)	None					93			
14	Antenna Wo (330 Deg)	None					93			
15	Antenna Wi (0 Deg)	None					93			
16	Antenna Wi (30 Deg)	None					93			
17	Antenna Wi (60 Deg)	None					93			
18	Antenna Wi (90 Deg)	None					93			
19	Antenna Wi (120 Deg)	None					93			
20	Antenna Wi (150 Deg)	None					93			
21	Antenna Wi (180 Deg)	None					93			
22	Antenna Wi (210 Deg)	None					93			
23	Antenna Wi (240 Deg)	None					93			
24	Antenna Wi (270 Deg)	None					93			
25	Antenna Wi (300 Deg)	None					93			
26	Antenna Wi (330 Deg)	None					93			
27	Antenna Wm (0 Deg)	None					93			
28	Antenna Wm (30 Deg)	None					93			
29	Antenna Wm (60 Deg)	None					93			
30	Antenna Wm (90 Deg)	None					93			
31	Antenna Wm (120 De...	None					93			
32	Antenna Wm (150 De...	None					93			
33	Antenna Wm (180 De...	None					93			
34	Antenna Wm (210 De...	None					93			
35	Antenna Wm (240 De...	None					93			
36	Antenna Wm (270 De...	None					93			
37	Antenna Wm (300 De...	None					93			
38	Antenna Wm (330 De...	None					93			
39	Structure D	None		-1					3	
40	Structure Di	None						49	3	
41	Structure Wo (0 Deg)	None						98		
42	Structure Wo (30 Deg)	None						98		
43	Structure Wo (60 Deg)	None						98		
44	Structure Wo (90 Deg)	None						98		
45	Structure Wo (120 D...	None						98		
46	Structure Wo (150 D...	None						98		
47	Structure Wo (180 D...	None						98		
48	Structure Wo (210 D...	None						98		
49	Structure Wo (240 D...	None						98		
50	Structure Wo (270 D...	None						98		
51	Structure Wo (300 D...	None						98		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						98		
53	Structure Wi (0 Deg)	None						98		
54	Structure Wi (30 Deg)	None						98		
55	Structure Wi (60 Deg)	None						98		
56	Structure Wi (90 Deg)	None						98		
57	Structure Wi (120 De...	None						98		
58	Structure Wi (150 De...	None						98		
59	Structure Wi (180 De...	None						98		
60	Structure Wi (210 De...	None						98		
61	Structure Wi (240 De...	None						98		
62	Structure Wi (270 De...	None						98		
63	Structure Wi (300 De...	None						98		
64	Structure Wi (330 De...	None						98		
65	Structure Wm (0 Deg)	None						98		
66	Structure Wm (30 D...	None						98		
67	Structure Wm (60 D...	None						98		
68	Structure Wm (90 D...	None						98		
69	Structure Wm (120 ...	None						98		
70	Structure Wm (150 ...	None						98		
71	Structure Wm (180 ...	None						98		
72	Structure Wm (210 ...	None						98		
73	Structure Wm (240 ...	None						98		
74	Structure Wm (270 ...	None						98		
75	Structure Wm (300 ...	None						98		
76	Structure Wm (330 ...	None						98		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

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

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
17	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												
27	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1												
28	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1												
29	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1												
30	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1												
31	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1												
32	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1												
33	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1												
34	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1												
35	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1												
36	1.2D + 1.5Lm1 + 1.0W ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1												
37	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1												
38	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1												
39	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1												
40	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1												
41	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1												
42	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1												
43	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1												
44	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1												
45	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1												
46	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1												
47	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1												
48	1.2D + 1.5Lm2 + 1.0W ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1												
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5																
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5																
51	1.4D	Yes	Y		1	1.4	39	1.4																		
52	Seismic Mass		Y		1	1	39	1																		
53	1.2D + 1.0Ev + 1.0Eh (0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1												
54	1.2D + 1.0Ev + 1.0Eh (3...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866												
55	1.2D + 1.0Ev + 1.0Eh (6...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5												
56	1.2D + 1.0Ev + 1.0Eh (9...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ													
57	1.2D + 1.0Ev + 1.0Eh (1...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5												
58	1.2D + 1.0Ev + 1.0Eh (1...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866												
59	1.2D + 1.0Ev + 1.0Eh (1...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1												
60	1.2D + 1.0Ev + 1.0Eh (2...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866												
61	1.2D + 1.0Ev + 1.0Eh (2...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5												
62	1.2D + 1.0Ev + 1.0Eh (2...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ													
63	1.2D + 1.0Ev + 1.0Eh (3...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5												
64	1.2D + 1.0Ev + 1.0Eh (3...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866												

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	CP	0.000004	0	-0.000002	0	
2	N2	0.000004	0	15.495813	0	
3	N10	-0.	0	-50.201687	0	
4	N11	-0.	0	-56.537822	0	
5	N12	-0.	0	-74.084042	0	
6	N13	-0.	0	-91.630262	0	
7	N14	-0.	0	-96.991607	0	
8	N15	-43.475936	0	25.100843	0	
9	N16	-83.997196	0	48.495803	0	
10	N17	43.475936	0	25.100843	0	
11	N18	83.997196	0	48.495803	0	
12	N15A	0.	0	25.100843	0	
13	N16A	0.	0	48.495803	0	
14	N15B	-48.96319	0	28.268911	0	
15	N16B	-64.158662	0	37.042021	0	
16	N17A	-79.354135	0	45.815131	0	
17	N18A	48.96319	0	28.268911	0	
18	N19	64.158662	0	37.042021	0	
19	N20	79.354135	0	45.815131	0	
20	N67	42.081226	0	-24.104786	0	
21	N78	21.737968	0	-12.550422	0	
22	N91	-41.91597	0	-24.391017	0	
23	N110	-21.737968	0	-12.550422	0	
24	N108A	41.998598	0	-24.247902	0	
25	N110A	-41.998598	0	-24.247902	0	
26	N30	13.419773	0	-7.747909	0	
27	N33	-13.419765	0	-7.747909	0	
28	N45	5.997179	0	48.495803	0	
29	N46	5.997179	0	50.246173	0	
30	N47	5.997179	50	52.246173	0	
31	N48	5.997179	-34	52.246173	0	
32	N92A	5.997179	3.5	50.246173	0	
33	N93A	5.997179	-6.5	50.246173	0	
34	N94A	5.997179	3.5	52.246173	0	
35	N95	5.997179	-6.5	52.246173	0	
36	N113A	-59.003221	0	48.495803	0	
37	N114A	-59.003221	0	50.246173	0	
38	N115A	-59.003221	50	52.246173	0	
39	N116A	-59.003221	-34	52.246173	0	
40	N117	-59.003221	3.5	50.246173	0	
41	N118	-59.003221	-6.5	50.246173	0	
42	N119	-59.003221	3.5	52.246173	0	
43	N120	-59.003221	-6.5	52.246173	0	
44	N117A	-34.003221	0	48.495803	0	
45	N118A	-34.003221	0	50.246173	0	
46	N119A	-34.003221	50	52.246173	0	
47	N120A	-34.003221	-34	52.246173	0	
48	N121	-34.003221	3.5	50.246173	0	
49	N122	-34.003221	-6.5	50.246173	0	
50	N123	-34.003221	3.5	52.246173	0	
51	N124	-34.003221	-6.5	52.246173	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
52	N121A	59.997179	0	48.495803	0	
53	N122A	59.997179	0	50.246173	0	
54	N123A	59.997179	50	52.246173	0	
55	N124A	59.997179	-34	52.246173	0	
56	N125	59.997179	3.5	50.246173	0	
57	N126	59.997179	-6.5	50.246173	0	
58	N127	59.997179	3.5	52.246173	0	
59	N128	59.997179	-6.5	52.246173	0	
60	N61	39.000016	0	-29.441611	0	
61	N62	40.51588	0	-30.316796	0	
62	N63	42.247931	50	-31.316796	0	
63	N64	42.247931	-34	-31.316796	0	
64	N65	40.51588	3.5	-30.316796	0	
65	N66	40.51588	-6.5	-30.316796	0	
66	N67A	42.247931	3.5	-31.316796	0	
67	N68	42.247931	-6.5	-31.316796	0	
68	N69	71.500216	0	26.850387	0	
69	N70	73.01608	0	25.975202	0	
70	N71	74.748131	50	24.975202	0	
71	N72	74.748131	-34	24.975202	0	
72	N73	73.01608	3.5	25.975202	0	
73	N74	73.01608	-6.5	25.975202	0	
74	N75	74.748131	3.5	24.975202	0	
75	N76	74.748131	-6.5	24.975202	0	
76	N77	59.000216	0	5.199752	0	
77	N78A	60.51608	0	4.324567	0	
78	N79	62.248131	50	3.324567	0	
79	N80	62.248131	-34	3.324567	0	
80	N81	60.51608	3.5	4.324567	0	
81	N82	60.51608	-6.5	4.324567	0	
82	N83	62.248131	3.5	3.324567	0	
83	N84	62.248131	-6.5	3.324567	0	
84	N85	12.000016	0	-76.206983	0	
85	N86	13.51588	0	-77.082168	0	
86	N87	15.247931	50	-78.082168	0	
87	N88	15.247931	-34	-78.082168	0	
88	N89	13.51588	3.5	-77.082168	0	
89	N90	13.51588	-6.5	-77.082168	0	
90	N91A	15.247931	3.5	-78.082168	0	
91	N92	15.247931	-6.5	-78.082168	0	
92	N94	-44.997183	0	-19.054198	0	
93	N95A	-46.513048	0	-19.929383	0	
94	N96	-48.245099	50	-20.929383	0	
95	N97	-48.245099	-34	-20.929383	0	
96	N98	-46.513048	3.5	-19.929383	0	
97	N99	-46.513048	-6.5	-19.929383	0	
98	N100	-48.245099	3.5	-20.929383	0	
99	N101	-48.245099	-6.5	-20.929383	0	
100	N102	-12.496983	0	-75.346196	0	
101	N103	-14.012848	0	-76.221381	0	
102	N104	-15.744899	50	-77.221381	0	
103	N105	-15.744899	-34	-77.221381	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
104	N106	-14.012848	3.5	-76.221381	0	
105	N107	-14.012848	-6.5	-76.221381	0	
106	N108	-15.744899	3.5	-77.221381	0	
107	N109	-15.744899	-6.5	-77.221381	0	
108	N110B	-24.996983	0	-53.695561	0	
109	N111	-26.512848	0	-54.570746	0	
110	N112	-28.244899	50	-55.570746	0	
111	N113	-28.244899	-34	-55.570746	0	
112	N114	-26.512848	3.5	-54.570746	0	
113	N115	-26.512848	-6.5	-54.570746	0	
114	N116	-28.244899	3.5	-55.570746	0	
115	N117B	-28.244899	-6.5	-55.570746	0	
116	N118B	-71.997183	0	27.711174	0	
117	N119B	-73.513048	0	26.835989	0	
118	N120B	-75.245099	50	25.835989	0	
119	N121B	-75.245099	-34	25.835989	0	
120	N122B	-73.513048	3.5	26.835989	0	
121	N123B	-73.513048	-6.5	26.835989	0	
122	N124B	-75.245099	3.5	25.835989	0	
123	N125A	-75.245099	-6.5	25.835989	0	
124	N124C	5.997179	0	52.246174	0	
125	N125B	-59.003221	0	52.246174	0	
126	N126A	-34.003221	0	52.246174	0	
127	N127A	59.997179	0	52.246174	0	
128	N128A	5.997179	36	52.246174	0	
129	N129	-59.003221	36	52.246174	0	
130	N130	-34.003221	36	52.246174	0	
131	N131	59.997179	36	52.246174	0	
132	N132	5.997179	36	48.495803	0	
133	N133	-59.003221	36	48.495803	0	
134	N134	-34.003221	36	48.495803	0	
135	N135	59.997179	36	48.495803	0	
136	N136	0.	36	48.495803	0	
137	N137	75	36	48.495803	0	
138	N138	-75	36	48.495803	0	
139	N139	42.247924	36	-31.316797	0	
140	N140	74.748124	36	24.975201	0	
141	N141	62.248124	36	3.324566	0	
142	N142	15.247924	36	-78.082168	0	
143	N143	39.000008	36	-29.441611	0	
144	N144	71.500208	36	26.850386	0	
145	N145	59.000208	36	5.199751	0	
146	N146	12.000008	36	-76.206983	0	
147	N147	41.998598	36	-24.247902	0	
148	N150	-48.245104	36	-20.929377	0	
149	N151	-15.744904	36	-77.221375	0	
150	N152	-28.244904	36	-55.57074	0	
151	N153	-75.245104	36	25.835995	0	
152	N154	-44.997188	36	-19.054192	0	
153	N155	-12.496987	36	-75.34619	0	
154	N156	-24.996987	36	-53.695555	0	
155	N157	-71.997187	36	27.71118	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
156	N158	-41.998598	36	-24.247902	0	
157	N173	-56.003221	36	48.495803	0	
158	N174	-56.003221	36	47.295803	0	
159	N175	56.003221	36	48.495803	0	
160	N176	56.003221	36	47.295803	0	
161	N177	70.000208	36	24.25231	0	
162	N178	68.960978	36	24.85231	0	
163	N179	13.996987	36	-72.748113	0	
164	N180	12.957757	36	-72.148113	0	
165	N181	-13.996987	36	-72.748113	0	
166	N182	-12.957757	36	-72.148113	0	
167	N183	-70.000208	36	24.25231	0	
168	N184	-68.960978	36	24.85231	0	
169	N169	4.498598	36	-89.199807	0	
170	N170	79.498598	36	40.704004	0	
171	N171	-79.498598	36	40.704004	0	
172	N172	-4.498598	36	-89.199807	0	
173	N173A	0.	0	20.300843	0	
174	N174A	3.2	0	20.300843	0	
175	N175A	3.2	30	20.300843	0	
176	N176A	3.2	-6	20.300843	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Standoff_2	HSS4.5X4...	Beam	Tube	A500 Gr.B...	Typical	2.93	9.02	9.02	14.4
3	Cross Members	L3X3X4	Beam	Channel	A36 Gr.36	Typical	1.44	1.23	1.23	.031
4	Face Horizontal	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Standoff_1	HSS4X4X4	Beam	Tube	A500 Gr.B...	Typical	3.37	7.8	7.8	12.8
6	Grating Angle	LL3x3x4x0	Beam	Double Angle (No Gap)	A36 Gr.36	Typical	2.88	4.5	2.46	.063
7	Mount Plate	PL3/8x5	Column	BAR	A36 Gr.36	Typical	1.875	.022	3.906	.084
8	MOD Support Rail	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	MOD Face Vertical	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
10	MOD Support Rail...	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 (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
3	M5	N14	N10		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
4	M6	N16	N15		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
5	M7	N18	N17		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
7	M7A	N16	N18		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M23A	N10	N17		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
9	M39A	N15	N10		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
10	M55	N78	N108A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
11	M56	N110	N110A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
12	M15	N30	N78			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
13	M16	N33	N110			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
14	M24A	N45	N46			RIGID	None	None	RIGID	Typical
15	MP2A	N47	N48			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
16	M48	N92A	N93A			Mount Plate	Column	BAR	A36 Gr.36	Typical
17	M49	N92A	N94A			RIGID	None	None	RIGID	Typical
18	M50A	N93A	N95			RIGID	None	None	RIGID	Typical
19	M62A	N113A	N114A			RIGID	None	None	RIGID	Typical
20	MP4A	N115A	N116A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
21	M64	N117	N118			Mount Plate	Column	BAR	A36 Gr.36	Typical
22	M65	N117	N119			RIGID	None	None	RIGID	Typical
23	M66	N118	N120			RIGID	None	None	RIGID	Typical
24	M65A	N117A	N118A			RIGID	None	None	RIGID	Typical
25	MP3A	N119A	N120A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
26	M67	N121	N122			Mount Plate	Column	BAR	A36 Gr.36	Typical
27	M68	N121	N123			RIGID	None	None	RIGID	Typical
28	M69	N122	N124			RIGID	None	None	RIGID	Typical
29	M68A	N121A	N122A			RIGID	None	None	RIGID	Typical
30	MP1A	N123A	N124A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
31	M70	N125	N126			Mount Plate	Column	BAR	A36 Gr.36	Typical
32	M71	N125	N127			RIGID	None	None	RIGID	Typical
33	M72	N126	N128			RIGID	None	None	RIGID	Typical
34	M36	N61	N62			RIGID	None	None	RIGID	Typical
35	MP2B	N63	N64			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
36	M38	N65	N66		60	Mount Plate	Column	BAR	A36 Gr.36	Typical
37	M39	N65	N67A			RIGID	None	None	RIGID	Typical
38	M40A	N66	N68			RIGID	None	None	RIGID	Typical
39	M41	N69	N70			RIGID	None	None	RIGID	Typical
40	MP4B	N71	N72			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
41	M43	N73	N74		60	Mount Plate	Column	BAR	A36 Gr.36	Typical
42	M44	N73	N75			RIGID	None	None	RIGID	Typical
43	M45	N74	N76			RIGID	None	None	RIGID	Typical
44	M46	N77	N78A			RIGID	None	None	RIGID	Typical
45	MP3B	N79	N80			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
46	M48A	N81	N82		60	Mount Plate	Column	BAR	A36 Gr.36	Typical
47	M49A	N81	N83			RIGID	None	None	RIGID	Typical
48	M50	N82	N84			RIGID	None	None	RIGID	Typical
49	M51	N85	N86			RIGID	None	None	RIGID	Typical
50	MP1B	N87	N88			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
51	M53	N89	N90		60	Mount Plate	Column	BAR	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
52	M54	N89	N91A			RIGID	None	None	RIGID	Typical
53	M55A	N90	N92			RIGID	None	None	RIGID	Typical
54	M56A	N94	N95A			RIGID	None	None	RIGID	Typical
55	MP2C	N96	N97			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
56	M58	N98	N99		120	Mount Plate	Column	BAR	A36 Gr.36	Typical
57	M59	N98	N100			RIGID	None	None	RIGID	Typical
58	M60	N99	N101			RIGID	None	None	RIGID	Typical
59	M61	N102	N103			RIGID	None	None	RIGID	Typical
60	MP4C	N104	N105			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
61	M63	N106	N107		120	Mount Plate	Column	BAR	A36 Gr.36	Typical
62	M64A	N106	N108			RIGID	None	None	RIGID	Typical
63	M65B	N107	N109			RIGID	None	None	RIGID	Typical
64	M66A	N110B	N111			RIGID	None	None	RIGID	Typical
65	MP3C	N112	N113			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
66	M68B	N114	N115		120	Mount Plate	Column	BAR	A36 Gr.36	Typical
67	M69A	N114	N116			RIGID	None	None	RIGID	Typical
68	M70A	N115	N117B			RIGID	None	None	RIGID	Typical
69	M71A	N118B	N119B			RIGID	None	None	RIGID	Typical
70	MP1C	N120B	N121B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
71	M73	N122B	N123B		120	Mount Plate	Column	BAR	A36 Gr.36	Typical
72	M74	N122B	N124B			RIGID	None	None	RIGID	Typical
73	M75	N123B	N125A			RIGID	None	None	RIGID	Typical
74	M76	N135	N131			RIGID	None	None	RIGID	Typical
75	M77	N132	N128A			RIGID	None	None	RIGID	Typical
76	M78	N134	N130			RIGID	None	None	RIGID	Typical
77	M79	N133	N129			RIGID	None	None	RIGID	Typical
78	M80	N138	N137			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
79	M81	N146	N142			RIGID	None	None	RIGID	Typical
80	M82	N143	N139			RIGID	None	None	RIGID	Typical
81	M83	N145	N141			RIGID	None	None	RIGID	Typical
82	M84	N144	N140			RIGID	None	None	RIGID	Typical
83	M86	N157	N153			RIGID	None	None	RIGID	Typical
84	M87	N154	N150			RIGID	None	None	RIGID	Typical
85	M88	N156	N152			RIGID	None	None	RIGID	Typical
86	M89	N155	N151			RIGID	None	None	RIGID	Typical
87	M100	N136	N16A		270	MOD Face Ver...	Column	Single Angle	A36 Gr.36	Typical
88	M101	N147	N108A		150	MOD Face Ver...	Column	Single Angle	A36 Gr.36	Typical
89	M102	N158	N110A		30	MOD Face Ver...	Column	Single Angle	A36 Gr.36	Typical
90	M103	N174	N173			RIGID	None	None	RIGID	Typical
91	M104	N176	N175			RIGID	None	None	RIGID	Typical
92	M105	N178	N177			RIGID	None	None	RIGID	Typical
93	M106	N180	N179			RIGID	None	None	RIGID	Typical
94	M107	N182	N181			RIGID	None	None	RIGID	Typical
95	M108	N184	N183			RIGID	None	None	RIGID	Typical
96	M109	N184	N174			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
97	M110	N176	N178			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
98	M111	N180	N182			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
99	M101A	N170	N169			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
100	M102A	N172	N171			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
101	M101B	N18	N14		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
102	M102B	N14	N16		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
103	OVP	N175A	N176A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
104	M104A	N173A	N174A			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M5						Yes				None
4	M6						Yes				None
5	M7						Yes	Default			None
6	M6A						Yes				None
7	M7A						Yes	Default			None
8	M23A						Yes				None
9	M39A						Yes				None
10	M55						Yes				None
11	M56						Yes				None
12	M15						Yes				None
13	M16						Yes				None
14	M24A						Yes	** NA **			None
15	MP2A						Yes	** NA **			None
16	M48						Yes	** NA **			None
17	M49		OOOXOO				Yes	** NA **			None
18	M50A		OOOXOO				Yes	** NA **			None
19	M62A						Yes	** NA **			None
20	MP4A						Yes	** NA **			None
21	M64						Yes	** NA **			None
22	M65		OOOXOO				Yes	** NA **			None
23	M66		OOOXOO				Yes	** NA **			None
24	M65A						Yes	** NA **			None
25	MP3A						Yes	** NA **			None
26	M67						Yes	** NA **			None
27	M68		OOOXOO				Yes	** NA **			None
28	M69		OOOXOO				Yes	** NA **			None
29	M68A						Yes	** NA **			None
30	MP1A						Yes	** NA **			None
31	M70						Yes	** NA **			None
32	M71		OOOXOO				Yes	** NA **			None
33	M72		OOOXOO				Yes	** NA **			None
34	M36						Yes	** NA **			None
35	MP2B						Yes	** NA **			None
36	M38						Yes	** NA **			None
37	M39		OOOXOO				Yes	** NA **			None
38	M40A		OOOXOO				Yes	** NA **			None
39	M41						Yes	** NA **			None
40	MP4B						Yes	** NA **			None
41	M43						Yes	** NA **			None
42	M44		OOOXOO				Yes	** NA **			None
43	M45		OOOXOO				Yes	** NA **			None
44	M46						Yes	** NA **			None
45	MP3B						Yes	** NA **			None
46	M48A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
47	M49A		OOOXOO				Yes	** NA **			None
48	M50		OOOXOO				Yes	** NA **			None
49	M51						Yes	** NA **			None
50	MP1B						Yes	** NA **			None
51	M53						Yes	** NA **			None
52	M54		OOOXOO				Yes	** NA **			None
53	M55A		OOOXOO				Yes	** NA **			None
54	M56A						Yes	** NA **			None
55	MP2C						Yes	** NA **			None
56	M58						Yes	** NA **			None
57	M59		OOOXOO				Yes	** NA **			None
58	M60		OOOXOO				Yes	** NA **			None
59	M61						Yes	** NA **			None
60	MP4C						Yes	** NA **			None
61	M63						Yes	** NA **			None
62	M64A		OOOXOO				Yes	** NA **			None
63	M65B		OOOXOO				Yes	** NA **			None
64	M66A						Yes	** NA **			None
65	MP3C						Yes	** NA **			None
66	M68B						Yes	** NA **			None
67	M69A		OOOXOO				Yes	** NA **			None
68	M70A		OOOXOO				Yes	** NA **			None
69	M71A						Yes	** NA **			None
70	MP1C						Yes	** NA **			None
71	M73						Yes	** NA **			None
72	M74		OOOXOO				Yes	** NA **			None
73	M75		OOOXOO				Yes	** NA **			None
74	M76						Yes	** NA **			None
75	M77						Yes	** NA **			None
76	M78						Yes	** NA **			None
77	M79						Yes	** NA **			None
78	M80						Yes	Default			None
79	M81						Yes	** NA **			None
80	M82						Yes	** NA **			None
81	M83						Yes	** NA **			None
82	M84						Yes	** NA **			None
83	M86						Yes	** NA **			None
84	M87						Yes	** NA **			None
85	M88						Yes	** NA **			None
86	M89						Yes	** NA **			None
87	M100	OOOOOX	BenPIN				Yes	** NA **			None
88	M101	OOOOOX	BenPIN				Yes	** NA **			None
89	M102	OOOOOX	BenPIN				Yes	** NA **			None
90	M103		OOOOOO				Yes	** NA **			None
91	M104		OOOOOO				Yes	** NA **			None
92	M105		OOOOOO				Yes	** NA **			None
93	M106		OOOOOO				Yes	** NA **			None
94	M107		OOOOOO				Yes	** NA **			None
95	M108		OOOOOO				Yes	** NA **			None
96	M109						Yes				None
97	M110						Yes				None
98	M111						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
99	M101A						Yes	Default			None
100	M102A						Yes	Default			None
101	M101B						Yes	Default			None
102	M102B						Yes	Default			None
103	OVP						Yes	** NA **			None
104	M104A						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	Y	-20.3	12
2	MP4A	My	-.018	12
3	MP4A	Mz	.012	12
4	MP4A	Y	-20.3	72
5	MP4A	My	-.018	72
6	MP4A	Mz	.012	72
7	MP4B	Y	-20.3	12
8	MP4B	My	.009	12
9	MP4B	Mz	-.019	12
10	MP4B	Y	-20.3	72
11	MP4B	My	.009	72
12	MP4B	Mz	-.019	72
13	MP4C	Y	-20.3	12
14	MP4C	My	.012	12
15	MP4C	Mz	.018	12
16	MP4C	Y	-20.3	72
17	MP4C	My	.012	72
18	MP4C	Mz	.018	72
19	MP4A	Y	-20.3	12
20	MP4A	My	-.018	12
21	MP4A	Mz	-.012	12
22	MP4A	Y	-20.3	72
23	MP4A	My	-.018	72
24	MP4A	Mz	-.012	72
25	MP4B	Y	-20.3	12
26	MP4B	My	.021	12
27	MP4B	Mz	.001	12
28	MP4B	Y	-20.3	72
29	MP4B	My	.021	72
30	MP4B	Mz	.001	72
31	MP4C	Y	-20.3	12
32	MP4C	My	-.012	12
33	MP4C	Mz	.018	12
34	MP4C	Y	-20.3	72
35	MP4C	My	-.012	72
36	MP4C	Mz	.018	72
37	MP2A	Y	-8.5	12
38	MP2A	My	-.007	12
39	MP2A	Mz	0	12
40	MP2A	Y	-8.5	72
41	MP2A	My	-.007	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
42	MP2A	Mz	0	72
43	MP2B	Y	-8.5	12
44	MP2B	My	.006	12
45	MP2B	Mz	-.003	12
46	MP2B	Y	-8.5	72
47	MP2B	My	.006	72
48	MP2B	Mz	-.003	72
49	MP2C	Y	-8.5	12
50	MP2C	My	0	12
51	MP2C	Mz	.007	12
52	MP2C	Y	-8.5	72
53	MP2C	My	0	72
54	MP2C	Mz	.007	72
55	MP3A	Y	-84.4	18
56	MP3A	My	.042	18
57	MP3A	Mz	0	18
58	MP3B	Y	-84.4	18
59	MP3B	My	-.037	18
60	MP3B	Mz	.021	18
61	MP3C	Y	-84.4	18
62	MP3C	My	0	18
63	MP3C	Mz	-.042	18
64	MP2A	Y	-70.3	18
65	MP2A	My	.041	18
66	MP2A	Mz	0	18
67	MP2B	Y	-70.3	18
68	MP2B	My	-.036	18
69	MP2B	Mz	.021	18
70	MP2C	Y	-70.3	18
71	MP2C	My	0	18
72	MP2C	Mz	-.041	18
73	OVP	Y	-26.9	6
74	OVP	My	0	6
75	OVP	Mz	0	6
76	MP1A	Y	-43.55	18
77	MP1A	My	-.036	18
78	MP1A	Mz	0	18
79	MP1A	Y	-43.55	60
80	MP1A	My	-.036	60
81	MP1A	Mz	0	60
82	MP1B	Y	-43.55	18
83	MP1B	My	.031	18
84	MP1B	Mz	-.018	18
85	MP1B	Y	-43.55	60
86	MP1B	My	.031	60
87	MP1B	Mz	-.018	60
88	MP1C	Y	-43.55	18
89	MP1C	My	0	18
90	MP1C	Mz	.036	18
91	MP1C	Y	-43.55	60
92	MP1C	My	0	60
93	MP1C	Mz	.036	60

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	Y	-93.567	12
2	MP4A	My	-.082	12
3	MP4A	Mz	.055	12
4	MP4A	Y	-93.567	72
5	MP4A	My	-.082	72
6	MP4A	Mz	.055	72
7	MP4B	Y	-93.567	12
8	MP4B	My	.044	12
9	MP4B	Mz	-.088	12
10	MP4B	Y	-93.567	72
11	MP4B	My	.044	72
12	MP4B	Mz	-.088	72
13	MP4C	Y	-93.567	12
14	MP4C	My	.055	12
15	MP4C	Mz	.082	12
16	MP4C	Y	-93.567	72
17	MP4C	My	.055	72
18	MP4C	Mz	.082	72
19	MP4A	Y	-93.567	12
20	MP4A	My	-.082	12
21	MP4A	Mz	-.055	12
22	MP4A	Y	-93.567	72
23	MP4A	My	-.082	72
24	MP4A	Mz	-.055	72
25	MP4B	Y	-93.567	12
26	MP4B	My	.098	12
27	MP4B	Mz	.006	12
28	MP4B	Y	-93.567	72
29	MP4B	My	.098	72
30	MP4B	Mz	.006	72
31	MP4C	Y	-93.567	12
32	MP4C	My	-.055	12
33	MP4C	Mz	.082	12
34	MP4C	Y	-93.567	72
35	MP4C	My	-.055	72
36	MP4C	Mz	.082	72
37	MP2A	Y	-80.396	12
38	MP2A	My	-.064	12
39	MP2A	Mz	0	12
40	MP2A	Y	-80.396	72
41	MP2A	My	-.064	72
42	MP2A	Mz	0	72
43	MP2B	Y	-80.396	12
44	MP2B	My	.055	12
45	MP2B	Mz	-.032	12
46	MP2B	Y	-80.396	72
47	MP2B	My	.055	72
48	MP2B	Mz	-.032	72
49	MP2C	Y	-80.396	12
50	MP2C	My	0	12
51	MP2C	Mz	.064	12
52	MP2C	Y	-80.396	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	My	0	72
54	MP2C	Mz	.064	72
55	MP3A	Y	-70.147	18
56	MP3A	My	.035	18
57	MP3A	Mz	0	18
58	MP3B	Y	-70.147	18
59	MP3B	My	-.03	18
60	MP3B	Mz	.018	18
61	MP3C	Y	-70.147	18
62	MP3C	My	0	18
63	MP3C	Mz	-.035	18
64	MP2A	Y	-63.32	18
65	MP2A	My	.037	18
66	MP2A	Mz	0	18
67	MP2B	Y	-63.32	18
68	MP2B	My	-.032	18
69	MP2B	Mz	.018	18
70	MP2C	Y	-63.32	18
71	MP2C	My	0	18
72	MP2C	Mz	-.037	18
73	OVP	Y	-85.896	6
74	OVP	My	0	6
75	OVP	Mz	0	6
76	MP1A	Y	-55.217	18
77	MP1A	My	-.046	18
78	MP1A	Mz	0	18
79	MP1A	Y	-55.217	60
80	MP1A	My	-.046	60
81	MP1A	Mz	0	60
82	MP1B	Y	-55.217	18
83	MP1B	My	.04	18
84	MP1B	Mz	-.023	18
85	MP1B	Y	-55.217	60
86	MP1B	My	.04	60
87	MP1B	Mz	-.023	60
88	MP1C	Y	-55.217	18
89	MP1C	My	0	18
90	MP1C	Mz	.046	18
91	MP1C	Y	-55.217	60
92	MP1C	My	0	60
93	MP1C	Mz	.046	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	-157.242	12
3	MP4A	Mx	-.092	12
4	MP4A	X	0	72
5	MP4A	Z	-157.242	72
6	MP4A	Mx	-.092	72
7	MP4B	X	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	-143.919	12
9	MP4B	Mx	.136	12
10	MP4B	X	0	72
11	MP4B	Z	-143.919	72
12	MP4B	Mx	.136	72
13	MP4C	X	0	12
14	MP4C	Z	-103.952	12
15	MP4C	Mx	-.091	12
16	MP4C	X	0	72
17	MP4C	Z	-103.952	72
18	MP4C	Mx	-.091	72
19	MP4A	X	0	12
20	MP4A	Z	-157.242	12
21	MP4A	Mx	.092	12
22	MP4A	X	0	72
23	MP4A	Z	-157.242	72
24	MP4A	Mx	.092	72
25	MP4B	X	0	12
26	MP4B	Z	-143.919	12
27	MP4B	Mx	-.01	12
28	MP4B	X	0	72
29	MP4B	Z	-143.919	72
30	MP4B	Mx	-.01	72
31	MP4C	X	0	12
32	MP4C	Z	-103.952	12
33	MP4C	Mx	-.091	12
34	MP4C	X	0	72
35	MP4C	Z	-103.952	72
36	MP4C	Mx	-.091	72
37	MP2A	X	0	12
38	MP2A	Z	-147.317	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	-147.317	72
42	MP2A	Mx	0	72
43	MP2B	X	0	12
44	MP2B	Z	-130.717	12
45	MP2B	Mx	.052	12
46	MP2B	X	0	72
47	MP2B	Z	-130.717	72
48	MP2B	Mx	.052	72
49	MP2C	X	0	12
50	MP2C	Z	-80.919	12
51	MP2C	Mx	-.064	12
52	MP2C	X	0	72
53	MP2C	Z	-80.919	72
54	MP2C	Mx	-.064	72
55	MP3A	X	0	18
56	MP3A	Z	-72.783	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	-66.75	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	-.017	18
61	MP3C	X	0	18
62	MP3C	Z	-48.652	18
63	MP3C	Mx	.024	18
64	MP2A	X	0	18
65	MP2A	Z	-72.783	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	-64.439	18
69	MP2B	Mx	-.019	18
70	MP2C	X	0	18
71	MP2C	Z	-39.408	18
72	MP2C	Mx	.023	18
73	OVP	X	0	6
74	OVP	Z	-97.303	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	-91.465	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	-91.465	60
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	-77.551	18
84	MP1B	Mx	.032	18
85	MP1B	X	0	60
86	MP1B	Z	-77.551	60
87	MP1B	Mx	.032	60
88	MP1C	X	0	18
89	MP1C	Z	-35.808	18
90	MP1C	Mx	-.03	18
91	MP1C	X	0	60
92	MP1C	Z	-35.808	60
93	MP1C	Mx	-.03	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	71.96	12
2	MP4A	Z	-124.638	12
3	MP4A	Mx	-.136	12
4	MP4A	X	71.96	72
5	MP4A	Z	-124.638	72
6	MP4A	Mx	-.136	72
7	MP4B	X	58.637	12
8	MP4B	Z	-101.563	12
9	MP4B	Mx	.123	12
10	MP4B	X	58.637	72
11	MP4B	Z	-101.563	72
12	MP4B	Mx	.123	72
13	MP4C	X	58.637	12
14	MP4C	Z	-101.563	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP4C	Mx	-.055	12
16	MP4C	X	58.637	72
17	MP4C	Z	-101.563	72
18	MP4C	Mx	-.055	72
19	MP4A	X	71.96	12
20	MP4A	Z	-124.638	12
21	MP4A	Mx	.01	12
22	MP4A	X	71.96	72
23	MP4A	Z	-124.638	72
24	MP4A	Mx	.01	72
25	MP4B	X	58.637	12
26	MP4B	Z	-101.563	12
27	MP4B	Mx	.055	12
28	MP4B	X	58.637	72
29	MP4B	Z	-101.563	72
30	MP4B	Mx	.055	72
31	MP4C	X	58.637	12
32	MP4C	Z	-101.563	12
33	MP4C	Mx	-.123	12
34	MP4C	X	58.637	72
35	MP4C	Z	-101.563	72
36	MP4C	Mx	-.123	72
37	MP2A	X	65.359	12
38	MP2A	Z	-113.205	12
39	MP2A	Mx	-.052	12
40	MP2A	X	65.359	72
41	MP2A	Z	-113.205	72
42	MP2A	Mx	-.052	72
43	MP2B	X	48.759	12
44	MP2B	Z	-84.454	12
45	MP2B	Mx	.067	12
46	MP2B	X	48.759	72
47	MP2B	Z	-84.454	72
48	MP2B	Mx	.067	72
49	MP2C	X	48.759	12
50	MP2C	Z	-84.454	12
51	MP2C	Mx	-.067	12
52	MP2C	X	48.759	72
53	MP2C	Z	-84.454	72
54	MP2C	Mx	-.067	72
55	MP3A	X	33.375	18
56	MP3A	Z	-57.807	18
57	MP3A	Mx	.017	18
58	MP3B	X	27.342	18
59	MP3B	Z	-47.358	18
60	MP3B	Mx	-.024	18
61	MP3C	X	27.342	18
62	MP3C	Z	-47.358	18
63	MP3C	Mx	.024	18
64	MP2A	X	32.219	18
65	MP2A	Z	-55.806	18
66	MP2A	Mx	.019	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
67	MP2B	X	23.876	18
68	MP2B	Z	-41.354	18
69	MP2B	Mx	-.024	18
70	MP2C	X	23.876	18
71	MP2C	Z	-41.354	18
72	MP2C	Mx	.024	18
73	OVP	X	44.387	6
74	OVP	Z	-76.881	6
75	OVP	Mx	0	6
76	MP1A	X	38.775	18
77	MP1A	Z	-67.161	18
78	MP1A	Mx	-.032	18
79	MP1A	X	38.775	60
80	MP1A	Z	-67.161	60
81	MP1A	Mx	-.032	60
82	MP1B	X	24.861	18
83	MP1B	Z	-43.061	18
84	MP1B	Mx	.036	18
85	MP1B	X	24.861	60
86	MP1B	Z	-43.061	60
87	MP1B	Mx	.036	60
88	MP1C	X	24.861	18
89	MP1C	Z	-43.061	18
90	MP1C	Mx	-.036	18
91	MP1C	X	24.861	60
92	MP1C	Z	-43.061	60
93	MP1C	Mx	-.036	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	101.563	12
2	MP4A	Z	-58.637	12
3	MP4A	Mx	-.123	12
4	MP4A	X	101.563	72
5	MP4A	Z	-58.637	72
6	MP4A	Mx	-.123	72
7	MP4B	X	90.025	12
8	MP4B	Z	-51.976	12
9	MP4B	Mx	.091	12
10	MP4B	X	90.025	72
11	MP4B	Z	-51.976	72
12	MP4B	Mx	.091	72
13	MP4C	X	124.638	12
14	MP4C	Z	-71.96	12
15	MP4C	Mx	.01	12
16	MP4C	X	124.638	72
17	MP4C	Z	-71.96	72
18	MP4C	Mx	.01	72
19	MP4A	X	101.563	12
20	MP4A	Z	-58.637	12
21	MP4A	Mx	-.055	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP4A	X	101.563	72
23	MP4A	Z	-58.637	72
24	MP4A	Mx	-.055	72
25	MP4B	X	90.025	12
26	MP4B	Z	-51.976	12
27	MP4B	Mx	.091	12
28	MP4B	X	90.025	72
29	MP4B	Z	-51.976	72
30	MP4B	Mx	.091	72
31	MP4C	X	124.638	12
32	MP4C	Z	-71.96	12
33	MP4C	Mx	-.136	12
34	MP4C	X	124.638	72
35	MP4C	Z	-71.96	72
36	MP4C	Mx	-.136	72
37	MP2A	X	84.454	12
38	MP2A	Z	-48.759	12
39	MP2A	Mx	-.067	12
40	MP2A	X	84.454	72
41	MP2A	Z	-48.759	72
42	MP2A	Mx	-.067	72
43	MP2B	X	70.078	12
44	MP2B	Z	-40.46	12
45	MP2B	Mx	.064	12
46	MP2B	X	70.078	72
47	MP2B	Z	-40.46	72
48	MP2B	Mx	.064	72
49	MP2C	X	113.205	12
50	MP2C	Z	-65.359	12
51	MP2C	Mx	-.052	12
52	MP2C	X	113.205	72
53	MP2C	Z	-65.359	72
54	MP2C	Mx	-.052	72
55	MP3A	X	47.358	18
56	MP3A	Z	-27.342	18
57	MP3A	Mx	.024	18
58	MP3B	X	42.133	18
59	MP3B	Z	-24.326	18
60	MP3B	Mx	-.024	18
61	MP3C	X	57.807	18
62	MP3C	Z	-33.375	18
63	MP3C	Mx	.017	18
64	MP2A	X	41.354	18
65	MP2A	Z	-23.876	18
66	MP2A	Mx	.024	18
67	MP2B	X	34.128	18
68	MP2B	Z	-19.704	18
69	MP2B	Mx	-.023	18
70	MP2C	X	55.806	18
71	MP2C	Z	-32.219	18
72	MP2C	Mx	.019	18
73	OVP	X	62.109	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
74	OVP	Z	-35.859	6
75	OVP	Mx	0	6
76	MP1A	X	43.061	18
77	MP1A	Z	-24.861	18
78	MP1A	Mx	-.036	18
79	MP1A	X	43.061	60
80	MP1A	Z	-24.861	60
81	MP1A	Mx	-.036	60
82	MP1B	X	31.011	18
83	MP1B	Z	-17.904	18
84	MP1B	Mx	.03	18
85	MP1B	X	31.011	60
86	MP1B	Z	-17.904	60
87	MP1B	Mx	.03	60
88	MP1C	X	67.161	18
89	MP1C	Z	-38.775	18
90	MP1C	Mx	-.032	18
91	MP1C	X	67.161	60
92	MP1C	Z	-38.775	60
93	MP1C	Mx	-.032	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	103.952	12
2	MP4A	Z	0	12
3	MP4A	Mx	-.091	12
4	MP4A	X	103.952	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.091	72
7	MP4B	X	117.275	12
8	MP4B	Z	0	12
9	MP4B	Mx	.055	12
10	MP4B	X	117.275	72
11	MP4B	Z	0	72
12	MP4B	Mx	.055	72
13	MP4C	X	157.242	12
14	MP4C	Z	0	12
15	MP4C	Mx	.092	12
16	MP4C	X	157.242	72
17	MP4C	Z	0	72
18	MP4C	Mx	.092	72
19	MP4A	X	103.952	12
20	MP4A	Z	0	12
21	MP4A	Mx	-.091	12
22	MP4A	X	103.952	72
23	MP4A	Z	0	72
24	MP4A	Mx	-.091	72
25	MP4B	X	117.275	12
26	MP4B	Z	0	12
27	MP4B	Mx	.123	12
28	MP4B	X	117.275	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP4B	Z	0	72
30	MP4B	Mx	.123	72
31	MP4C	X	157.242	12
32	MP4C	Z	0	12
33	MP4C	Mx	-.092	12
34	MP4C	X	157.242	72
35	MP4C	Z	0	72
36	MP4C	Mx	-.092	72
37	MP2A	X	80.919	12
38	MP2A	Z	0	12
39	MP2A	Mx	-.064	12
40	MP2A	X	80.919	72
41	MP2A	Z	0	72
42	MP2A	Mx	-.064	72
43	MP2B	X	97.519	12
44	MP2B	Z	0	12
45	MP2B	Mx	.067	12
46	MP2B	X	97.519	72
47	MP2B	Z	0	72
48	MP2B	Mx	.067	72
49	MP2C	X	147.317	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	147.317	72
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	48.652	18
56	MP3A	Z	0	18
57	MP3A	Mx	.024	18
58	MP3B	X	54.684	18
59	MP3B	Z	0	18
60	MP3B	Mx	-.024	18
61	MP3C	X	72.783	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	39.408	18
65	MP2A	Z	0	18
66	MP2A	Mx	.023	18
67	MP2B	X	47.751	18
68	MP2B	Z	0	18
69	MP2B	Mx	-.024	18
70	MP2C	X	72.783	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	63.189	6
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	35.808	18
77	MP1A	Z	0	18
78	MP1A	Mx	-.03	18
79	MP1A	X	35.808	60
80	MP1A	Z	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
81	MP1A	Mx	-.03	60
82	MP1B	X	49.722	18
83	MP1B	Z	0	18
84	MP1B	Mx	.036	18
85	MP1B	X	49.722	60
86	MP1B	Z	0	60
87	MP1B	Mx	.036	60
88	MP1C	X	91.465	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	91.465	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	101.563	12
2	MP4A	Z	58.637	12
3	MP4A	Mx	-.055	12
4	MP4A	X	101.563	72
5	MP4A	Z	58.637	72
6	MP4A	Mx	-.055	72
7	MP4B	X	124.638	12
8	MP4B	Z	71.96	12
9	MP4B	Mx	-.01	12
10	MP4B	X	124.638	72
11	MP4B	Z	71.96	72
12	MP4B	Mx	-.01	72
13	MP4C	X	124.638	12
14	MP4C	Z	71.96	12
15	MP4C	Mx	.136	12
16	MP4C	X	124.638	72
17	MP4C	Z	71.96	72
18	MP4C	Mx	.136	72
19	MP4A	X	101.563	12
20	MP4A	Z	58.637	12
21	MP4A	Mx	-.123	12
22	MP4A	X	101.563	72
23	MP4A	Z	58.637	72
24	MP4A	Mx	-.123	72
25	MP4B	X	124.638	12
26	MP4B	Z	71.96	12
27	MP4B	Mx	.136	12
28	MP4B	X	124.638	72
29	MP4B	Z	71.96	72
30	MP4B	Mx	.136	72
31	MP4C	X	124.638	12
32	MP4C	Z	71.96	12
33	MP4C	Mx	-.01	12
34	MP4C	X	124.638	72
35	MP4C	Z	71.96	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP4C	Mx	-.01	72
37	MP2A	X	84.454	12
38	MP2A	Z	48.759	12
39	MP2A	Mx	-.067	12
40	MP2A	X	84.454	72
41	MP2A	Z	48.759	72
42	MP2A	Mx	-.067	72
43	MP2B	X	113.205	12
44	MP2B	Z	65.359	12
45	MP2B	Mx	.052	12
46	MP2B	X	113.205	72
47	MP2B	Z	65.359	72
48	MP2B	Mx	.052	72
49	MP2C	X	113.205	12
50	MP2C	Z	65.359	12
51	MP2C	Mx	.052	12
52	MP2C	X	113.205	72
53	MP2C	Z	65.359	72
54	MP2C	Mx	.052	72
55	MP3A	X	47.358	18
56	MP3A	Z	27.342	18
57	MP3A	Mx	.024	18
58	MP3B	X	57.807	18
59	MP3B	Z	33.375	18
60	MP3B	Mx	-.017	18
61	MP3C	X	57.807	18
62	MP3C	Z	33.375	18
63	MP3C	Mx	-.017	18
64	MP2A	X	41.354	18
65	MP2A	Z	23.876	18
66	MP2A	Mx	.024	18
67	MP2B	X	55.806	18
68	MP2B	Z	32.219	18
69	MP2B	Mx	-.019	18
70	MP2C	X	55.806	18
71	MP2C	Z	32.219	18
72	MP2C	Mx	-.019	18
73	OVP	X	62.109	6
74	OVP	Z	35.859	6
75	OVP	Mx	0	6
76	MP1A	X	43.061	18
77	MP1A	Z	24.861	18
78	MP1A	Mx	-.036	18
79	MP1A	X	43.061	60
80	MP1A	Z	24.861	60
81	MP1A	Mx	-.036	60
82	MP1B	X	67.161	18
83	MP1B	Z	38.775	18
84	MP1B	Mx	.032	18
85	MP1B	X	67.161	60
86	MP1B	Z	38.775	60
87	MP1B	Mx	.032	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
88	MP1C	X	67.161	18
89	MP1C	Z	38.775	18
90	MP1C	Mx	.032	18
91	MP1C	X	67.161	60
92	MP1C	Z	38.775	60
93	MP1C	Mx	.032	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	71.96	12
2	MP4A	Z	124.638	12
3	MP4A	Mx	.01	12
4	MP4A	X	71.96	72
5	MP4A	Z	124.638	72
6	MP4A	Mx	.01	72
7	MP4B	X	78.621	12
8	MP4B	Z	136.175	12
9	MP4B	Mx	-.092	12
10	MP4B	X	78.621	72
11	MP4B	Z	136.175	72
12	MP4B	Mx	-.092	72
13	MP4C	X	58.637	12
14	MP4C	Z	101.563	12
15	MP4C	Mx	.123	12
16	MP4C	X	58.637	72
17	MP4C	Z	101.563	72
18	MP4C	Mx	.123	72
19	MP4A	X	71.96	12
20	MP4A	Z	124.638	12
21	MP4A	Mx	-.136	12
22	MP4A	X	71.96	72
23	MP4A	Z	124.638	72
24	MP4A	Mx	-.136	72
25	MP4B	X	78.621	12
26	MP4B	Z	136.175	12
27	MP4B	Mx	.092	12
28	MP4B	X	78.621	72
29	MP4B	Z	136.175	72
30	MP4B	Mx	.092	72
31	MP4C	X	58.637	12
32	MP4C	Z	101.563	12
33	MP4C	Mx	.055	12
34	MP4C	X	58.637	72
35	MP4C	Z	101.563	72
36	MP4C	Mx	.055	72
37	MP2A	X	65.359	12
38	MP2A	Z	113.205	12
39	MP2A	Mx	-.052	12
40	MP2A	X	65.359	72
41	MP2A	Z	113.205	72
42	MP2A	Mx	-.052	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP2B	X	73.658	12
44	MP2B	Z	127.58	12
45	MP2B	Mx	0	12
46	MP2B	X	73.658	72
47	MP2B	Z	127.58	72
48	MP2B	Mx	0	72
49	MP2C	X	48.759	12
50	MP2C	Z	84.454	12
51	MP2C	Mx	.067	12
52	MP2C	X	48.759	72
53	MP2C	Z	84.454	72
54	MP2C	Mx	.067	72
55	MP3A	X	33.375	18
56	MP3A	Z	57.807	18
57	MP3A	Mx	.017	18
58	MP3B	X	36.391	18
59	MP3B	Z	63.032	18
60	MP3B	Mx	0	18
61	MP3C	X	27.342	18
62	MP3C	Z	47.358	18
63	MP3C	Mx	-.024	18
64	MP2A	X	32.219	18
65	MP2A	Z	55.806	18
66	MP2A	Mx	.019	18
67	MP2B	X	36.391	18
68	MP2B	Z	63.032	18
69	MP2B	Mx	0	18
70	MP2C	X	23.876	18
71	MP2C	Z	41.354	18
72	MP2C	Mx	-.024	18
73	OVP	X	44.387	6
74	OVP	Z	76.881	6
75	OVP	Mx	0	6
76	MP1A	X	38.775	18
77	MP1A	Z	67.161	18
78	MP1A	Mx	-.032	18
79	MP1A	X	38.775	60
80	MP1A	Z	67.161	60
81	MP1A	Mx	-.032	60
82	MP1B	X	45.732	18
83	MP1B	Z	79.211	18
84	MP1B	Mx	0	18
85	MP1B	X	45.732	60
86	MP1B	Z	79.211	60
87	MP1B	Mx	0	60
88	MP1C	X	24.861	18
89	MP1C	Z	43.061	18
90	MP1C	Mx	.036	18
91	MP1C	X	24.861	60
92	MP1C	Z	43.061	60
93	MP1C	Mx	.036	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	157.242	12
3	MP4A	Mx	.092	12
4	MP4A	X	0	72
5	MP4A	Z	157.242	72
6	MP4A	Mx	.092	72
7	MP4B	X	0	12
8	MP4B	Z	143.919	12
9	MP4B	Mx	-.136	12
10	MP4B	X	0	72
11	MP4B	Z	143.919	72
12	MP4B	Mx	-.136	72
13	MP4C	X	0	12
14	MP4C	Z	103.952	12
15	MP4C	Mx	.091	12
16	MP4C	X	0	72
17	MP4C	Z	103.952	72
18	MP4C	Mx	.091	72
19	MP4A	X	0	12
20	MP4A	Z	157.242	12
21	MP4A	Mx	-.092	12
22	MP4A	X	0	72
23	MP4A	Z	157.242	72
24	MP4A	Mx	-.092	72
25	MP4B	X	0	12
26	MP4B	Z	143.919	12
27	MP4B	Mx	.01	12
28	MP4B	X	0	72
29	MP4B	Z	143.919	72
30	MP4B	Mx	.01	72
31	MP4C	X	0	12
32	MP4C	Z	103.952	12
33	MP4C	Mx	.091	12
34	MP4C	X	0	72
35	MP4C	Z	103.952	72
36	MP4C	Mx	.091	72
37	MP2A	X	0	12
38	MP2A	Z	147.317	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	147.317	72
42	MP2A	Mx	0	72
43	MP2B	X	0	12
44	MP2B	Z	130.717	12
45	MP2B	Mx	-.052	12
46	MP2B	X	0	72
47	MP2B	Z	130.717	72
48	MP2B	Mx	-.052	72
49	MP2C	X	0	12
50	MP2C	Z	80.919	12
51	MP2C	Mx	.064	12
52	MP2C	X	0	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	Z	80.919	72
54	MP2C	Mx	.064	72
55	MP3A	X	0	18
56	MP3A	Z	72.783	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	66.75	18
60	MP3B	Mx	.017	18
61	MP3C	X	0	18
62	MP3C	Z	48.652	18
63	MP3C	Mx	-.024	18
64	MP2A	X	0	18
65	MP2A	Z	72.783	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	64.439	18
69	MP2B	Mx	.019	18
70	MP2C	X	0	18
71	MP2C	Z	39.408	18
72	MP2C	Mx	-.023	18
73	OVP	X	0	6
74	OVP	Z	97.303	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	91.465	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	91.465	60
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	77.551	18
84	MP1B	Mx	-.032	18
85	MP1B	X	0	60
86	MP1B	Z	77.551	60
87	MP1B	Mx	-.032	60
88	MP1C	X	0	18
89	MP1C	Z	35.808	18
90	MP1C	Mx	.03	18
91	MP1C	X	0	60
92	MP1C	Z	35.808	60
93	MP1C	Mx	.03	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-71.96	12
2	MP4A	Z	124.638	12
3	MP4A	Mx	.136	12
4	MP4A	X	-71.96	72
5	MP4A	Z	124.638	72
6	MP4A	Mx	.136	72
7	MP4B	X	-58.637	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	101.563	12
9	MP4B	Mx	-.123	12
10	MP4B	X	-58.637	72
11	MP4B	Z	101.563	72
12	MP4B	Mx	-.123	72
13	MP4C	X	-58.637	12
14	MP4C	Z	101.563	12
15	MP4C	Mx	.055	12
16	MP4C	X	-58.637	72
17	MP4C	Z	101.563	72
18	MP4C	Mx	.055	72
19	MP4A	X	-71.96	12
20	MP4A	Z	124.638	12
21	MP4A	Mx	-.01	12
22	MP4A	X	-71.96	72
23	MP4A	Z	124.638	72
24	MP4A	Mx	-.01	72
25	MP4B	X	-58.637	12
26	MP4B	Z	101.563	12
27	MP4B	Mx	-.055	12
28	MP4B	X	-58.637	72
29	MP4B	Z	101.563	72
30	MP4B	Mx	-.055	72
31	MP4C	X	-58.637	12
32	MP4C	Z	101.563	12
33	MP4C	Mx	.123	12
34	MP4C	X	-58.637	72
35	MP4C	Z	101.563	72
36	MP4C	Mx	.123	72
37	MP2A	X	-65.359	12
38	MP2A	Z	113.205	12
39	MP2A	Mx	.052	12
40	MP2A	X	-65.359	72
41	MP2A	Z	113.205	72
42	MP2A	Mx	.052	72
43	MP2B	X	-48.759	12
44	MP2B	Z	84.454	12
45	MP2B	Mx	-.067	12
46	MP2B	X	-48.759	72
47	MP2B	Z	84.454	72
48	MP2B	Mx	-.067	72
49	MP2C	X	-48.759	12
50	MP2C	Z	84.454	12
51	MP2C	Mx	.067	12
52	MP2C	X	-48.759	72
53	MP2C	Z	84.454	72
54	MP2C	Mx	.067	72
55	MP3A	X	-33.375	18
56	MP3A	Z	57.807	18
57	MP3A	Mx	-.017	18
58	MP3B	X	-27.342	18
59	MP3B	Z	47.358	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	.024	18
61	MP3C	X	-27.342	18
62	MP3C	Z	47.358	18
63	MP3C	Mx	-.024	18
64	MP2A	X	-32.219	18
65	MP2A	Z	55.806	18
66	MP2A	Mx	-.019	18
67	MP2B	X	-23.876	18
68	MP2B	Z	41.354	18
69	MP2B	Mx	.024	18
70	MP2C	X	-23.876	18
71	MP2C	Z	41.354	18
72	MP2C	Mx	-.024	18
73	OVP	X	-44.387	6
74	OVP	Z	76.881	6
75	OVP	Mx	0	6
76	MP1A	X	-38.775	18
77	MP1A	Z	67.161	18
78	MP1A	Mx	.032	18
79	MP1A	X	-38.775	60
80	MP1A	Z	67.161	60
81	MP1A	Mx	.032	60
82	MP1B	X	-24.861	18
83	MP1B	Z	43.061	18
84	MP1B	Mx	-.036	18
85	MP1B	X	-24.861	60
86	MP1B	Z	43.061	60
87	MP1B	Mx	-.036	60
88	MP1C	X	-24.861	18
89	MP1C	Z	43.061	18
90	MP1C	Mx	.036	18
91	MP1C	X	-24.861	60
92	MP1C	Z	43.061	60
93	MP1C	Mx	.036	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-101.563	12
2	MP4A	Z	58.637	12
3	MP4A	Mx	.123	12
4	MP4A	X	-101.563	72
5	MP4A	Z	58.637	72
6	MP4A	Mx	.123	72
7	MP4B	X	-90.025	12
8	MP4B	Z	51.976	12
9	MP4B	Mx	-.091	12
10	MP4B	X	-90.025	72
11	MP4B	Z	51.976	72
12	MP4B	Mx	-.091	72
13	MP4C	X	-124.638	12
14	MP4C	Z	71.96	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP4C	Mx	-.01	12
16	MP4C	X	-124.638	72
17	MP4C	Z	71.96	72
18	MP4C	Mx	-.01	72
19	MP4A	X	-101.563	12
20	MP4A	Z	58.637	12
21	MP4A	Mx	.055	12
22	MP4A	X	-101.563	72
23	MP4A	Z	58.637	72
24	MP4A	Mx	.055	72
25	MP4B	X	-90.025	12
26	MP4B	Z	51.976	12
27	MP4B	Mx	-.091	12
28	MP4B	X	-90.025	72
29	MP4B	Z	51.976	72
30	MP4B	Mx	-.091	72
31	MP4C	X	-124.638	12
32	MP4C	Z	71.96	12
33	MP4C	Mx	.136	12
34	MP4C	X	-124.638	72
35	MP4C	Z	71.96	72
36	MP4C	Mx	.136	72
37	MP2A	X	-84.454	12
38	MP2A	Z	48.759	12
39	MP2A	Mx	.067	12
40	MP2A	X	-84.454	72
41	MP2A	Z	48.759	72
42	MP2A	Mx	.067	72
43	MP2B	X	-70.078	12
44	MP2B	Z	40.46	12
45	MP2B	Mx	-.064	12
46	MP2B	X	-70.078	72
47	MP2B	Z	40.46	72
48	MP2B	Mx	-.064	72
49	MP2C	X	-113.205	12
50	MP2C	Z	65.359	12
51	MP2C	Mx	.052	12
52	MP2C	X	-113.205	72
53	MP2C	Z	65.359	72
54	MP2C	Mx	.052	72
55	MP3A	X	-47.358	18
56	MP3A	Z	27.342	18
57	MP3A	Mx	-.024	18
58	MP3B	X	-42.133	18
59	MP3B	Z	24.326	18
60	MP3B	Mx	.024	18
61	MP3C	X	-57.807	18
62	MP3C	Z	33.375	18
63	MP3C	Mx	-.017	18
64	MP2A	X	-41.354	18
65	MP2A	Z	23.876	18
66	MP2A	Mx	-.024	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
67	MP2B	X	-34.128	18
68	MP2B	Z	19.704	18
69	MP2B	Mx	.023	18
70	MP2C	X	-55.806	18
71	MP2C	Z	32.219	18
72	MP2C	Mx	-.019	18
73	OVP	X	-62.109	6
74	OVP	Z	35.859	6
75	OVP	Mx	0	6
76	MP1A	X	-43.061	18
77	MP1A	Z	24.861	18
78	MP1A	Mx	.036	18
79	MP1A	X	-43.061	60
80	MP1A	Z	24.861	60
81	MP1A	Mx	.036	60
82	MP1B	X	-31.011	18
83	MP1B	Z	17.904	18
84	MP1B	Mx	-.03	18
85	MP1B	X	-31.011	60
86	MP1B	Z	17.904	60
87	MP1B	Mx	-.03	60
88	MP1C	X	-67.161	18
89	MP1C	Z	38.775	18
90	MP1C	Mx	.032	18
91	MP1C	X	-67.161	60
92	MP1C	Z	38.775	60
93	MP1C	Mx	.032	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-103.952	12
2	MP4A	Z	0	12
3	MP4A	Mx	.091	12
4	MP4A	X	-103.952	72
5	MP4A	Z	0	72
6	MP4A	Mx	.091	72
7	MP4B	X	-117.275	12
8	MP4B	Z	0	12
9	MP4B	Mx	-.055	12
10	MP4B	X	-117.275	72
11	MP4B	Z	0	72
12	MP4B	Mx	-.055	72
13	MP4C	X	-157.242	12
14	MP4C	Z	0	12
15	MP4C	Mx	-.092	12
16	MP4C	X	-157.242	72
17	MP4C	Z	0	72
18	MP4C	Mx	-.092	72
19	MP4A	X	-103.952	12
20	MP4A	Z	0	12
21	MP4A	Mx	.091	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP4A	X	-103.952	72
23	MP4A	Z	0	72
24	MP4A	Mx	.091	72
25	MP4B	X	-117.275	12
26	MP4B	Z	0	12
27	MP4B	Mx	-.123	12
28	MP4B	X	-117.275	72
29	MP4B	Z	0	72
30	MP4B	Mx	-.123	72
31	MP4C	X	-157.242	12
32	MP4C	Z	0	12
33	MP4C	Mx	.092	12
34	MP4C	X	-157.242	72
35	MP4C	Z	0	72
36	MP4C	Mx	.092	72
37	MP2A	X	-80.919	12
38	MP2A	Z	0	12
39	MP2A	Mx	.064	12
40	MP2A	X	-80.919	72
41	MP2A	Z	0	72
42	MP2A	Mx	.064	72
43	MP2B	X	-97.519	12
44	MP2B	Z	0	12
45	MP2B	Mx	-.067	12
46	MP2B	X	-97.519	72
47	MP2B	Z	0	72
48	MP2B	Mx	-.067	72
49	MP2C	X	-147.317	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	-147.317	72
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	-48.652	18
56	MP3A	Z	0	18
57	MP3A	Mx	-.024	18
58	MP3B	X	-54.684	18
59	MP3B	Z	0	18
60	MP3B	Mx	.024	18
61	MP3C	X	-72.783	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	-39.408	18
65	MP2A	Z	0	18
66	MP2A	Mx	-.023	18
67	MP2B	X	-47.751	18
68	MP2B	Z	0	18
69	MP2B	Mx	.024	18
70	MP2C	X	-72.783	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	-63.189	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	-35.808	18
77	MP1A	Z	0	18
78	MP1A	Mx	.03	18
79	MP1A	X	-35.808	60
80	MP1A	Z	0	60
81	MP1A	Mx	.03	60
82	MP1B	X	-49.722	18
83	MP1B	Z	0	18
84	MP1B	Mx	-.036	18
85	MP1B	X	-49.722	60
86	MP1B	Z	0	60
87	MP1B	Mx	-.036	60
88	MP1C	X	-91.465	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	-91.465	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-101.563	12
2	MP4A	Z	-58.637	12
3	MP4A	Mx	.055	12
4	MP4A	X	-101.563	72
5	MP4A	Z	-58.637	72
6	MP4A	Mx	.055	72
7	MP4B	X	-124.638	12
8	MP4B	Z	-71.96	12
9	MP4B	Mx	.01	12
10	MP4B	X	-124.638	72
11	MP4B	Z	-71.96	72
12	MP4B	Mx	.01	72
13	MP4C	X	-124.638	12
14	MP4C	Z	-71.96	12
15	MP4C	Mx	-.136	12
16	MP4C	X	-124.638	72
17	MP4C	Z	-71.96	72
18	MP4C	Mx	-.136	72
19	MP4A	X	-101.563	12
20	MP4A	Z	-58.637	12
21	MP4A	Mx	.123	12
22	MP4A	X	-101.563	72
23	MP4A	Z	-58.637	72
24	MP4A	Mx	.123	72
25	MP4B	X	-124.638	12
26	MP4B	Z	-71.96	12
27	MP4B	Mx	-.136	12
28	MP4B	X	-124.638	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP4B	Z	-71.96	72
30	MP4B	Mx	-.136	72
31	MP4C	X	-124.638	12
32	MP4C	Z	-71.96	12
33	MP4C	Mx	.01	12
34	MP4C	X	-124.638	72
35	MP4C	Z	-71.96	72
36	MP4C	Mx	.01	72
37	MP2A	X	-84.454	12
38	MP2A	Z	-48.759	12
39	MP2A	Mx	.067	12
40	MP2A	X	-84.454	72
41	MP2A	Z	-48.759	72
42	MP2A	Mx	.067	72
43	MP2B	X	-113.205	12
44	MP2B	Z	-65.359	12
45	MP2B	Mx	-.052	12
46	MP2B	X	-113.205	72
47	MP2B	Z	-65.359	72
48	MP2B	Mx	-.052	72
49	MP2C	X	-113.205	12
50	MP2C	Z	-65.359	12
51	MP2C	Mx	-.052	12
52	MP2C	X	-113.205	72
53	MP2C	Z	-65.359	72
54	MP2C	Mx	-.052	72
55	MP3A	X	-47.358	18
56	MP3A	Z	-27.342	18
57	MP3A	Mx	-.024	18
58	MP3B	X	-57.807	18
59	MP3B	Z	-33.375	18
60	MP3B	Mx	.017	18
61	MP3C	X	-57.807	18
62	MP3C	Z	-33.375	18
63	MP3C	Mx	.017	18
64	MP2A	X	-41.354	18
65	MP2A	Z	-23.876	18
66	MP2A	Mx	-.024	18
67	MP2B	X	-55.806	18
68	MP2B	Z	-32.219	18
69	MP2B	Mx	.019	18
70	MP2C	X	-55.806	18
71	MP2C	Z	-32.219	18
72	MP2C	Mx	.019	18
73	OVP	X	-62.109	6
74	OVP	Z	-35.859	6
75	OVP	Mx	0	6
76	MP1A	X	-43.061	18
77	MP1A	Z	-24.861	18
78	MP1A	Mx	.036	18
79	MP1A	X	-43.061	60
80	MP1A	Z	-24.861	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
81	MP1A	Mx	.036	60
82	MP1B	X	-67.161	18
83	MP1B	Z	-38.775	18
84	MP1B	Mx	-.032	18
85	MP1B	X	-67.161	60
86	MP1B	Z	-38.775	60
87	MP1B	Mx	-.032	60
88	MP1C	X	-67.161	18
89	MP1C	Z	-38.775	18
90	MP1C	Mx	-.032	18
91	MP1C	X	-67.161	60
92	MP1C	Z	-38.775	60
93	MP1C	Mx	-.032	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-71.96	12
2	MP4A	Z	-124.638	12
3	MP4A	Mx	-.01	12
4	MP4A	X	-71.96	72
5	MP4A	Z	-124.638	72
6	MP4A	Mx	-.01	72
7	MP4B	X	-78.621	12
8	MP4B	Z	-136.175	12
9	MP4B	Mx	.092	12
10	MP4B	X	-78.621	72
11	MP4B	Z	-136.175	72
12	MP4B	Mx	.092	72
13	MP4C	X	-58.637	12
14	MP4C	Z	-101.563	12
15	MP4C	Mx	-.123	12
16	MP4C	X	-58.637	72
17	MP4C	Z	-101.563	72
18	MP4C	Mx	-.123	72
19	MP4A	X	-71.96	12
20	MP4A	Z	-124.638	12
21	MP4A	Mx	.136	12
22	MP4A	X	-71.96	72
23	MP4A	Z	-124.638	72
24	MP4A	Mx	.136	72
25	MP4B	X	-78.621	12
26	MP4B	Z	-136.175	12
27	MP4B	Mx	-.092	12
28	MP4B	X	-78.621	72
29	MP4B	Z	-136.175	72
30	MP4B	Mx	-.092	72
31	MP4C	X	-58.637	12
32	MP4C	Z	-101.563	12
33	MP4C	Mx	-.055	12
34	MP4C	X	-58.637	72
35	MP4C	Z	-101.563	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP4C	Mx	-.055	72
37	MP2A	X	-65.359	12
38	MP2A	Z	-113.205	12
39	MP2A	Mx	.052	12
40	MP2A	X	-65.359	72
41	MP2A	Z	-113.205	72
42	MP2A	Mx	.052	72
43	MP2B	X	-73.658	12
44	MP2B	Z	-127.58	12
45	MP2B	Mx	0	12
46	MP2B	X	-73.658	72
47	MP2B	Z	-127.58	72
48	MP2B	Mx	0	72
49	MP2C	X	-48.759	12
50	MP2C	Z	-84.454	12
51	MP2C	Mx	-.067	12
52	MP2C	X	-48.759	72
53	MP2C	Z	-84.454	72
54	MP2C	Mx	-.067	72
55	MP3A	X	-33.375	18
56	MP3A	Z	-57.807	18
57	MP3A	Mx	-.017	18
58	MP3B	X	-36.391	18
59	MP3B	Z	-63.032	18
60	MP3B	Mx	0	18
61	MP3C	X	-27.342	18
62	MP3C	Z	-47.358	18
63	MP3C	Mx	.024	18
64	MP2A	X	-32.219	18
65	MP2A	Z	-55.806	18
66	MP2A	Mx	-.019	18
67	MP2B	X	-36.391	18
68	MP2B	Z	-63.032	18
69	MP2B	Mx	0	18
70	MP2C	X	-23.876	18
71	MP2C	Z	-41.354	18
72	MP2C	Mx	.024	18
73	OVP	X	-44.387	6
74	OVP	Z	-76.881	6
75	OVP	Mx	0	6
76	MP1A	X	-38.775	18
77	MP1A	Z	-67.161	18
78	MP1A	Mx	.032	18
79	MP1A	X	-38.775	60
80	MP1A	Z	-67.161	60
81	MP1A	Mx	.032	60
82	MP1B	X	-45.732	18
83	MP1B	Z	-79.211	18
84	MP1B	Mx	0	18
85	MP1B	X	-45.732	60
86	MP1B	Z	-79.211	60
87	MP1B	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
88	MP1C	X	-24.861	18
89	MP1C	Z	-43.061	18
90	MP1C	Mx	-.036	18
91	MP1C	X	-24.861	60
92	MP1C	Z	-43.061	60
93	MP1C	Mx	-.036	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	-33.174	12
3	MP4A	Mx	-.019	12
4	MP4A	X	0	72
5	MP4A	Z	-33.174	72
6	MP4A	Mx	-.019	72
7	MP4B	X	0	12
8	MP4B	Z	-30.705	12
9	MP4B	Mx	.029	12
10	MP4B	X	0	72
11	MP4B	Z	-30.705	72
12	MP4B	Mx	.029	72
13	MP4C	X	0	12
14	MP4C	Z	-23.298	12
15	MP4C	Mx	-.02	12
16	MP4C	X	0	72
17	MP4C	Z	-23.298	72
18	MP4C	Mx	-.02	72
19	MP4A	X	0	12
20	MP4A	Z	-33.174	12
21	MP4A	Mx	.019	12
22	MP4A	X	0	72
23	MP4A	Z	-33.174	72
24	MP4A	Mx	.019	72
25	MP4B	X	0	12
26	MP4B	Z	-30.705	12
27	MP4B	Mx	-.002	12
28	MP4B	X	0	72
29	MP4B	Z	-30.705	72
30	MP4B	Mx	-.002	72
31	MP4C	X	0	12
32	MP4C	Z	-23.298	12
33	MP4C	Mx	-.02	12
34	MP4C	X	0	72
35	MP4C	Z	-23.298	72
36	MP4C	Mx	-.02	72
37	MP2A	X	0	12
38	MP2A	Z	-31.251	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	-31.251	72
42	MP2A	Mx	0	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP2B	X	0	12
44	MP2B	Z	-28.148	12
45	MP2B	Mx	.011	12
46	MP2B	X	0	72
47	MP2B	Z	-28.148	72
48	MP2B	Mx	.011	72
49	MP2C	X	0	12
50	MP2C	Z	-18.84	12
51	MP2C	Mx	-.015	12
52	MP2C	X	0	72
53	MP2C	Z	-18.84	72
54	MP2C	Mx	-.015	72
55	MP3A	X	0	18
56	MP3A	Z	-17.245	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	-15.987	18
60	MP3B	Mx	-.004	18
61	MP3C	X	0	18
62	MP3C	Z	-12.216	18
63	MP3C	Mx	.006	18
64	MP2A	X	0	18
65	MP2A	Z	-17.245	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	-15.51	18
69	MP2B	Mx	-.005	18
70	MP2C	X	0	18
71	MP2C	Z	-10.304	18
72	MP2C	Mx	.006	18
73	OVP	X	0	6
74	OVP	Z	-22.242	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	-19.939	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	-19.939	60
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	-17.163	18
84	MP1B	Mx	.007	18
85	MP1B	X	0	60
86	MP1B	Z	-17.163	60
87	MP1B	Mx	.007	60
88	MP1C	X	0	18
89	MP1C	Z	-8.834	18
90	MP1C	Mx	-.007	18
91	MP1C	X	0	60
92	MP1C	Z	-8.834	60
93	MP1C	Mx	-.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	15.352	12
2	MP4A	Z	-26.591	12
3	MP4A	Mx	-.029	12
4	MP4A	X	15.352	72
5	MP4A	Z	-26.591	72
6	MP4A	Mx	-.029	72
7	MP4B	X	12.884	12
8	MP4B	Z	-22.315	12
9	MP4B	Mx	.027	12
10	MP4B	X	12.884	72
11	MP4B	Z	-22.315	72
12	MP4B	Mx	.027	72
13	MP4C	X	12.884	12
14	MP4C	Z	-22.315	12
15	MP4C	Mx	-.012	12
16	MP4C	X	12.884	72
17	MP4C	Z	-22.315	72
18	MP4C	Mx	-.012	72
19	MP4A	X	15.352	12
20	MP4A	Z	-26.591	12
21	MP4A	Mx	.002	12
22	MP4A	X	15.352	72
23	MP4A	Z	-26.591	72
24	MP4A	Mx	.002	72
25	MP4B	X	12.884	12
26	MP4B	Z	-22.315	12
27	MP4B	Mx	.012	12
28	MP4B	X	12.884	72
29	MP4B	Z	-22.315	72
30	MP4B	Mx	.012	72
31	MP4C	X	12.884	12
32	MP4C	Z	-22.315	12
33	MP4C	Mx	-.027	12
34	MP4C	X	12.884	72
35	MP4C	Z	-22.315	72
36	MP4C	Mx	-.027	72
37	MP2A	X	14.074	12
38	MP2A	Z	-24.377	12
39	MP2A	Mx	-.011	12
40	MP2A	X	14.074	72
41	MP2A	Z	-24.377	72
42	MP2A	Mx	-.011	72
43	MP2B	X	10.971	12
44	MP2B	Z	-19.003	12
45	MP2B	Mx	.015	12
46	MP2B	X	10.971	72
47	MP2B	Z	-19.003	72
48	MP2B	Mx	.015	72
49	MP2C	X	10.971	12
50	MP2C	Z	-19.003	12
51	MP2C	Mx	-.015	12
52	MP2C	X	10.971	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	Z	-19.003	72
54	MP2C	Mx	-.015	72
55	MP3A	X	7.994	18
56	MP3A	Z	-13.845	18
57	MP3A	Mx	.004	18
58	MP3B	X	6.736	18
59	MP3B	Z	-11.668	18
60	MP3B	Mx	-.006	18
61	MP3C	X	6.736	18
62	MP3C	Z	-11.668	18
63	MP3C	Mx	.006	18
64	MP2A	X	7.755	18
65	MP2A	Z	-13.432	18
66	MP2A	Mx	.005	18
67	MP2B	X	6.02	18
68	MP2B	Z	-10.427	18
69	MP2B	Mx	-.006	18
70	MP2C	X	6.02	18
71	MP2C	Z	-10.427	18
72	MP2C	Mx	.006	18
73	OVP	X	10.263	6
74	OVP	Z	-17.776	6
75	OVP	Mx	0	6
76	MP1A	X	8.581	18
77	MP1A	Z	-14.863	18
78	MP1A	Mx	-.007	18
79	MP1A	X	8.581	60
80	MP1A	Z	-14.863	60
81	MP1A	Mx	-.007	60
82	MP1B	X	5.805	18
83	MP1B	Z	-10.055	18
84	MP1B	Mx	.008	18
85	MP1B	X	5.805	60
86	MP1B	Z	-10.055	60
87	MP1B	Mx	.008	60
88	MP1C	X	5.805	18
89	MP1C	Z	-10.055	18
90	MP1C	Mx	-.008	18
91	MP1C	X	5.805	60
92	MP1C	Z	-10.055	60
93	MP1C	Mx	-.008	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	22.315	12
2	MP4A	Z	-12.884	12
3	MP4A	Mx	-.027	12
4	MP4A	X	22.315	72
5	MP4A	Z	-12.884	72
6	MP4A	Mx	-.027	72
7	MP4B	X	20.177	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	-11.649	12
9	MP4B	Mx	.02	12
10	MP4B	X	20.177	72
11	MP4B	Z	-11.649	72
12	MP4B	Mx	.02	72
13	MP4C	X	26.591	12
14	MP4C	Z	-15.352	12
15	MP4C	Mx	.002	12
16	MP4C	X	26.591	72
17	MP4C	Z	-15.352	72
18	MP4C	Mx	.002	72
19	MP4A	X	22.315	12
20	MP4A	Z	-12.884	12
21	MP4A	Mx	-.012	12
22	MP4A	X	22.315	72
23	MP4A	Z	-12.884	72
24	MP4A	Mx	-.012	72
25	MP4B	X	20.177	12
26	MP4B	Z	-11.649	12
27	MP4B	Mx	.02	12
28	MP4B	X	20.177	72
29	MP4B	Z	-11.649	72
30	MP4B	Mx	.02	72
31	MP4C	X	26.591	12
32	MP4C	Z	-15.352	12
33	MP4C	Mx	-.029	12
34	MP4C	X	26.591	72
35	MP4C	Z	-15.352	72
36	MP4C	Mx	-.029	72
37	MP2A	X	19.003	12
38	MP2A	Z	-10.971	12
39	MP2A	Mx	-.015	12
40	MP2A	X	19.003	72
41	MP2A	Z	-10.971	72
42	MP2A	Mx	-.015	72
43	MP2B	X	16.316	12
44	MP2B	Z	-9.42	12
45	MP2B	Mx	.015	12
46	MP2B	X	16.316	72
47	MP2B	Z	-9.42	72
48	MP2B	Mx	.015	72
49	MP2C	X	24.377	12
50	MP2C	Z	-14.074	12
51	MP2C	Mx	-.011	12
52	MP2C	X	24.377	72
53	MP2C	Z	-14.074	72
54	MP2C	Mx	-.011	72
55	MP3A	X	11.668	18
56	MP3A	Z	-6.736	18
57	MP3A	Mx	.006	18
58	MP3B	X	10.579	18
59	MP3B	Z	-6.108	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	-.006	18
61	MP3C	X	13.845	18
62	MP3C	Z	-7.994	18
63	MP3C	Mx	.004	18
64	MP2A	X	10.427	18
65	MP2A	Z	-6.02	18
66	MP2A	Mx	.006	18
67	MP2B	X	8.924	18
68	MP2B	Z	-5.152	18
69	MP2B	Mx	-.006	18
70	MP2C	X	13.432	18
71	MP2C	Z	-7.755	18
72	MP2C	Mx	.005	18
73	OVP	X	14.802	6
74	OVP	Z	-8.546	6
75	OVP	Mx	0	6
76	MP1A	X	10.055	18
77	MP1A	Z	-5.805	18
78	MP1A	Mx	-.008	18
79	MP1A	X	10.055	60
80	MP1A	Z	-5.805	60
81	MP1A	Mx	-.008	60
82	MP1B	X	7.651	18
83	MP1B	Z	-4.417	18
84	MP1B	Mx	.007	18
85	MP1B	X	7.651	60
86	MP1B	Z	-4.417	60
87	MP1B	Mx	.007	60
88	MP1C	X	14.863	18
89	MP1C	Z	-8.581	18
90	MP1C	Mx	-.007	18
91	MP1C	X	14.863	60
92	MP1C	Z	-8.581	60
93	MP1C	Mx	-.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	23.298	12
2	MP4A	Z	0	12
3	MP4A	Mx	-.02	12
4	MP4A	X	23.298	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.02	72
7	MP4B	X	25.767	12
8	MP4B	Z	0	12
9	MP4B	Mx	.012	12
10	MP4B	X	25.767	72
11	MP4B	Z	0	72
12	MP4B	Mx	.012	72
13	MP4C	X	33.174	12
14	MP4C	Z	0	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP4C	Mx	.019	12
16	MP4C	X	33.174	72
17	MP4C	Z	0	72
18	MP4C	Mx	.019	72
19	MP4A	X	23.298	12
20	MP4A	Z	0	12
21	MP4A	Mx	-.02	12
22	MP4A	X	23.298	72
23	MP4A	Z	0	72
24	MP4A	Mx	-.02	72
25	MP4B	X	25.767	12
26	MP4B	Z	0	12
27	MP4B	Mx	.027	12
28	MP4B	X	25.767	72
29	MP4B	Z	0	72
30	MP4B	Mx	.027	72
31	MP4C	X	33.174	12
32	MP4C	Z	0	12
33	MP4C	Mx	-.019	12
34	MP4C	X	33.174	72
35	MP4C	Z	0	72
36	MP4C	Mx	-.019	72
37	MP2A	X	18.84	12
38	MP2A	Z	0	12
39	MP2A	Mx	-.015	12
40	MP2A	X	18.84	72
41	MP2A	Z	0	72
42	MP2A	Mx	-.015	72
43	MP2B	X	21.943	12
44	MP2B	Z	0	12
45	MP2B	Mx	.015	12
46	MP2B	X	21.943	72
47	MP2B	Z	0	72
48	MP2B	Mx	.015	72
49	MP2C	X	31.251	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	31.251	72
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	12.216	18
56	MP3A	Z	0	18
57	MP3A	Mx	.006	18
58	MP3B	X	13.473	18
59	MP3B	Z	0	18
60	MP3B	Mx	-.006	18
61	MP3C	X	17.245	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	10.304	18
65	MP2A	Z	0	18
66	MP2A	Mx	.006	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
67	MP2B	X	12.04	18
68	MP2B	Z	0	18
69	MP2B	Mx	-.006	18
70	MP2C	X	17.245	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	15.375	6
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	8.834	18
77	MP1A	Z	0	18
78	MP1A	Mx	-.007	18
79	MP1A	X	8.834	60
80	MP1A	Z	0	60
81	MP1A	Mx	-.007	60
82	MP1B	X	11.61	18
83	MP1B	Z	0	18
84	MP1B	Mx	.008	18
85	MP1B	X	11.61	60
86	MP1B	Z	0	60
87	MP1B	Mx	.008	60
88	MP1C	X	19.939	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	19.939	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	22.315	12
2	MP4A	Z	12.884	12
3	MP4A	Mx	-.012	12
4	MP4A	X	22.315	72
5	MP4A	Z	12.884	72
6	MP4A	Mx	-.012	72
7	MP4B	X	26.591	12
8	MP4B	Z	15.352	12
9	MP4B	Mx	-.002	12
10	MP4B	X	26.591	72
11	MP4B	Z	15.352	72
12	MP4B	Mx	-.002	72
13	MP4C	X	26.591	12
14	MP4C	Z	15.352	12
15	MP4C	Mx	.029	12
16	MP4C	X	26.591	72
17	MP4C	Z	15.352	72
18	MP4C	Mx	.029	72
19	MP4A	X	22.315	12
20	MP4A	Z	12.884	12
21	MP4A	Mx	-.027	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP4A	X	22.315	72
23	MP4A	Z	12.884	72
24	MP4A	Mx	-.027	72
25	MP4B	X	26.591	12
26	MP4B	Z	15.352	12
27	MP4B	Mx	.029	12
28	MP4B	X	26.591	72
29	MP4B	Z	15.352	72
30	MP4B	Mx	.029	72
31	MP4C	X	26.591	12
32	MP4C	Z	15.352	12
33	MP4C	Mx	-.002	12
34	MP4C	X	26.591	72
35	MP4C	Z	15.352	72
36	MP4C	Mx	-.002	72
37	MP2A	X	19.003	12
38	MP2A	Z	10.971	12
39	MP2A	Mx	-.015	12
40	MP2A	X	19.003	72
41	MP2A	Z	10.971	72
42	MP2A	Mx	-.015	72
43	MP2B	X	24.377	12
44	MP2B	Z	14.074	12
45	MP2B	Mx	.011	12
46	MP2B	X	24.377	72
47	MP2B	Z	14.074	72
48	MP2B	Mx	.011	72
49	MP2C	X	24.377	12
50	MP2C	Z	14.074	12
51	MP2C	Mx	.011	12
52	MP2C	X	24.377	72
53	MP2C	Z	14.074	72
54	MP2C	Mx	.011	72
55	MP3A	X	11.668	18
56	MP3A	Z	6.736	18
57	MP3A	Mx	.006	18
58	MP3B	X	13.845	18
59	MP3B	Z	7.994	18
60	MP3B	Mx	-.004	18
61	MP3C	X	13.845	18
62	MP3C	Z	7.994	18
63	MP3C	Mx	-.004	18
64	MP2A	X	10.427	18
65	MP2A	Z	6.02	18
66	MP2A	Mx	.006	18
67	MP2B	X	13.432	18
68	MP2B	Z	7.755	18
69	MP2B	Mx	-.005	18
70	MP2C	X	13.432	18
71	MP2C	Z	7.755	18
72	MP2C	Mx	-.005	18
73	OVP	X	14.802	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
74	OVP	Z	8.546	6
75	OVP	Mx	0	6
76	MP1A	X	10.055	18
77	MP1A	Z	5.805	18
78	MP1A	Mx	-.008	18
79	MP1A	X	10.055	60
80	MP1A	Z	5.805	60
81	MP1A	Mx	-.008	60
82	MP1B	X	14.863	18
83	MP1B	Z	8.581	18
84	MP1B	Mx	.007	18
85	MP1B	X	14.863	60
86	MP1B	Z	8.581	60
87	MP1B	Mx	.007	60
88	MP1C	X	14.863	18
89	MP1C	Z	8.581	18
90	MP1C	Mx	.007	18
91	MP1C	X	14.863	60
92	MP1C	Z	8.581	60
93	MP1C	Mx	.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	15.352	12
2	MP4A	Z	26.591	12
3	MP4A	Mx	.002	12
4	MP4A	X	15.352	72
5	MP4A	Z	26.591	72
6	MP4A	Mx	.002	72
7	MP4B	X	16.587	12
8	MP4B	Z	28.729	12
9	MP4B	Mx	-.019	12
10	MP4B	X	16.587	72
11	MP4B	Z	28.729	72
12	MP4B	Mx	-.019	72
13	MP4C	X	12.884	12
14	MP4C	Z	22.315	12
15	MP4C	Mx	.027	12
16	MP4C	X	12.884	72
17	MP4C	Z	22.315	72
18	MP4C	Mx	.027	72
19	MP4A	X	15.352	12
20	MP4A	Z	26.591	12
21	MP4A	Mx	-.029	12
22	MP4A	X	15.352	72
23	MP4A	Z	26.591	72
24	MP4A	Mx	-.029	72
25	MP4B	X	16.587	12
26	MP4B	Z	28.729	12
27	MP4B	Mx	.019	12
28	MP4B	X	16.587	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP4B	Z	28.729	72
30	MP4B	Mx	.019	72
31	MP4C	X	12.884	12
32	MP4C	Z	22.315	12
33	MP4C	Mx	.012	12
34	MP4C	X	12.884	72
35	MP4C	Z	22.315	72
36	MP4C	Mx	.012	72
37	MP2A	X	14.074	12
38	MP2A	Z	24.377	12
39	MP2A	Mx	-.011	12
40	MP2A	X	14.074	72
41	MP2A	Z	24.377	72
42	MP2A	Mx	-.011	72
43	MP2B	X	15.625	12
44	MP2B	Z	27.064	12
45	MP2B	Mx	0	12
46	MP2B	X	15.625	72
47	MP2B	Z	27.064	72
48	MP2B	Mx	0	72
49	MP2C	X	10.971	12
50	MP2C	Z	19.003	12
51	MP2C	Mx	.015	12
52	MP2C	X	10.971	72
53	MP2C	Z	19.003	72
54	MP2C	Mx	.015	72
55	MP3A	X	7.994	18
56	MP3A	Z	13.845	18
57	MP3A	Mx	.004	18
58	MP3B	X	8.622	18
59	MP3B	Z	14.934	18
60	MP3B	Mx	0	18
61	MP3C	X	6.736	18
62	MP3C	Z	11.668	18
63	MP3C	Mx	-.006	18
64	MP2A	X	7.755	18
65	MP2A	Z	13.432	18
66	MP2A	Mx	.005	18
67	MP2B	X	8.622	18
68	MP2B	Z	14.934	18
69	MP2B	Mx	0	18
70	MP2C	X	6.02	18
71	MP2C	Z	10.427	18
72	MP2C	Mx	-.006	18
73	OVP	X	10.263	6
74	OVP	Z	17.776	6
75	OVP	Mx	0	6
76	MP1A	X	8.581	18
77	MP1A	Z	14.863	18
78	MP1A	Mx	-.007	18
79	MP1A	X	8.581	60
80	MP1A	Z	14.863	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
81	MP1A	Mx	-.007	60
82	MP1B	X	9.969	18
83	MP1B	Z	17.267	18
84	MP1B	Mx	0	18
85	MP1B	X	9.969	60
86	MP1B	Z	17.267	60
87	MP1B	Mx	0	60
88	MP1C	X	5.805	18
89	MP1C	Z	10.055	18
90	MP1C	Mx	.008	18
91	MP1C	X	5.805	60
92	MP1C	Z	10.055	60
93	MP1C	Mx	.008	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	33.174	12
3	MP4A	Mx	.019	12
4	MP4A	X	0	72
5	MP4A	Z	33.174	72
6	MP4A	Mx	.019	72
7	MP4B	X	0	12
8	MP4B	Z	30.705	12
9	MP4B	Mx	-.029	12
10	MP4B	X	0	72
11	MP4B	Z	30.705	72
12	MP4B	Mx	-.029	72
13	MP4C	X	0	12
14	MP4C	Z	23.298	12
15	MP4C	Mx	.02	12
16	MP4C	X	0	72
17	MP4C	Z	23.298	72
18	MP4C	Mx	.02	72
19	MP4A	X	0	12
20	MP4A	Z	33.174	12
21	MP4A	Mx	-.019	12
22	MP4A	X	0	72
23	MP4A	Z	33.174	72
24	MP4A	Mx	-.019	72
25	MP4B	X	0	12
26	MP4B	Z	30.705	12
27	MP4B	Mx	.002	12
28	MP4B	X	0	72
29	MP4B	Z	30.705	72
30	MP4B	Mx	.002	72
31	MP4C	X	0	12
32	MP4C	Z	23.298	12
33	MP4C	Mx	.02	12
34	MP4C	X	0	72
35	MP4C	Z	23.298	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP4C	Mx	.02	72
37	MP2A	X	0	12
38	MP2A	Z	31.251	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	31.251	72
42	MP2A	Mx	0	72
43	MP2B	X	0	12
44	MP2B	Z	28.148	12
45	MP2B	Mx	-.011	12
46	MP2B	X	0	72
47	MP2B	Z	28.148	72
48	MP2B	Mx	-.011	72
49	MP2C	X	0	12
50	MP2C	Z	18.84	12
51	MP2C	Mx	.015	12
52	MP2C	X	0	72
53	MP2C	Z	18.84	72
54	MP2C	Mx	.015	72
55	MP3A	X	0	18
56	MP3A	Z	17.245	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	15.987	18
60	MP3B	Mx	.004	18
61	MP3C	X	0	18
62	MP3C	Z	12.216	18
63	MP3C	Mx	-.006	18
64	MP2A	X	0	18
65	MP2A	Z	17.245	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	15.51	18
69	MP2B	Mx	.005	18
70	MP2C	X	0	18
71	MP2C	Z	10.304	18
72	MP2C	Mx	-.006	18
73	OVP	X	0	6
74	OVP	Z	22.242	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	19.939	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	19.939	60
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	17.163	18
84	MP1B	Mx	-.007	18
85	MP1B	X	0	60
86	MP1B	Z	17.163	60
87	MP1B	Mx	-.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
88	MP1C	X	0	18
89	MP1C	Z	8.834	18
90	MP1C	Mx	.007	18
91	MP1C	X	0	60
92	MP1C	Z	8.834	60
93	MP1C	Mx	.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-15.352	12
2	MP4A	Z	26.591	12
3	MP4A	Mx	.029	12
4	MP4A	X	-15.352	72
5	MP4A	Z	26.591	72
6	MP4A	Mx	.029	72
7	MP4B	X	-12.884	12
8	MP4B	Z	22.315	12
9	MP4B	Mx	-.027	12
10	MP4B	X	-12.884	72
11	MP4B	Z	22.315	72
12	MP4B	Mx	-.027	72
13	MP4C	X	-12.884	12
14	MP4C	Z	22.315	12
15	MP4C	Mx	.012	12
16	MP4C	X	-12.884	72
17	MP4C	Z	22.315	72
18	MP4C	Mx	.012	72
19	MP4A	X	-15.352	12
20	MP4A	Z	26.591	12
21	MP4A	Mx	-.002	12
22	MP4A	X	-15.352	72
23	MP4A	Z	26.591	72
24	MP4A	Mx	-.002	72
25	MP4B	X	-12.884	12
26	MP4B	Z	22.315	12
27	MP4B	Mx	-.012	12
28	MP4B	X	-12.884	72
29	MP4B	Z	22.315	72
30	MP4B	Mx	-.012	72
31	MP4C	X	-12.884	12
32	MP4C	Z	22.315	12
33	MP4C	Mx	.027	12
34	MP4C	X	-12.884	72
35	MP4C	Z	22.315	72
36	MP4C	Mx	.027	72
37	MP2A	X	-14.074	12
38	MP2A	Z	24.377	12
39	MP2A	Mx	.011	12
40	MP2A	X	-14.074	72
41	MP2A	Z	24.377	72
42	MP2A	Mx	.011	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP2B	X	-10.971	12
44	MP2B	Z	19.003	12
45	MP2B	Mx	-.015	12
46	MP2B	X	-10.971	72
47	MP2B	Z	19.003	72
48	MP2B	Mx	-.015	72
49	MP2C	X	-10.971	12
50	MP2C	Z	19.003	12
51	MP2C	Mx	.015	12
52	MP2C	X	-10.971	72
53	MP2C	Z	19.003	72
54	MP2C	Mx	.015	72
55	MP3A	X	-7.994	18
56	MP3A	Z	13.845	18
57	MP3A	Mx	-.004	18
58	MP3B	X	-6.736	18
59	MP3B	Z	11.668	18
60	MP3B	Mx	.006	18
61	MP3C	X	-6.736	18
62	MP3C	Z	11.668	18
63	MP3C	Mx	-.006	18
64	MP2A	X	-7.755	18
65	MP2A	Z	13.432	18
66	MP2A	Mx	-.005	18
67	MP2B	X	-6.02	18
68	MP2B	Z	10.427	18
69	MP2B	Mx	.006	18
70	MP2C	X	-6.02	18
71	MP2C	Z	10.427	18
72	MP2C	Mx	-.006	18
73	OVP	X	-10.263	6
74	OVP	Z	17.776	6
75	OVP	Mx	0	6
76	MP1A	X	-8.581	18
77	MP1A	Z	14.863	18
78	MP1A	Mx	.007	18
79	MP1A	X	-8.581	60
80	MP1A	Z	14.863	60
81	MP1A	Mx	.007	60
82	MP1B	X	-5.805	18
83	MP1B	Z	10.055	18
84	MP1B	Mx	-.008	18
85	MP1B	X	-5.805	60
86	MP1B	Z	10.055	60
87	MP1B	Mx	-.008	60
88	MP1C	X	-5.805	18
89	MP1C	Z	10.055	18
90	MP1C	Mx	.008	18
91	MP1C	X	-5.805	60
92	MP1C	Z	10.055	60
93	MP1C	Mx	.008	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-22.315	12
2	MP4A	Z	12.884	12
3	MP4A	Mx	.027	12
4	MP4A	X	-22.315	72
5	MP4A	Z	12.884	72
6	MP4A	Mx	.027	72
7	MP4B	X	-20.177	12
8	MP4B	Z	11.649	12
9	MP4B	Mx	-.02	12
10	MP4B	X	-20.177	72
11	MP4B	Z	11.649	72
12	MP4B	Mx	-.02	72
13	MP4C	X	-26.591	12
14	MP4C	Z	15.352	12
15	MP4C	Mx	-.002	12
16	MP4C	X	-26.591	72
17	MP4C	Z	15.352	72
18	MP4C	Mx	-.002	72
19	MP4A	X	-22.315	12
20	MP4A	Z	12.884	12
21	MP4A	Mx	.012	12
22	MP4A	X	-22.315	72
23	MP4A	Z	12.884	72
24	MP4A	Mx	.012	72
25	MP4B	X	-20.177	12
26	MP4B	Z	11.649	12
27	MP4B	Mx	-.02	12
28	MP4B	X	-20.177	72
29	MP4B	Z	11.649	72
30	MP4B	Mx	-.02	72
31	MP4C	X	-26.591	12
32	MP4C	Z	15.352	12
33	MP4C	Mx	.029	12
34	MP4C	X	-26.591	72
35	MP4C	Z	15.352	72
36	MP4C	Mx	.029	72
37	MP2A	X	-19.003	12
38	MP2A	Z	10.971	12
39	MP2A	Mx	.015	12
40	MP2A	X	-19.003	72
41	MP2A	Z	10.971	72
42	MP2A	Mx	.015	72
43	MP2B	X	-16.316	12
44	MP2B	Z	9.42	12
45	MP2B	Mx	-.015	12
46	MP2B	X	-16.316	72
47	MP2B	Z	9.42	72
48	MP2B	Mx	-.015	72
49	MP2C	X	-24.377	12
50	MP2C	Z	14.074	12
51	MP2C	Mx	.011	12
52	MP2C	X	-24.377	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	Z	14.074	72
54	MP2C	Mx	.011	72
55	MP3A	X	-11.668	18
56	MP3A	Z	6.736	18
57	MP3A	Mx	-.006	18
58	MP3B	X	-10.579	18
59	MP3B	Z	6.108	18
60	MP3B	Mx	.006	18
61	MP3C	X	-13.845	18
62	MP3C	Z	7.994	18
63	MP3C	Mx	-.004	18
64	MP2A	X	-10.427	18
65	MP2A	Z	6.02	18
66	MP2A	Mx	-.006	18
67	MP2B	X	-8.924	18
68	MP2B	Z	5.152	18
69	MP2B	Mx	.006	18
70	MP2C	X	-13.432	18
71	MP2C	Z	7.755	18
72	MP2C	Mx	-.005	18
73	OVP	X	-14.802	6
74	OVP	Z	8.546	6
75	OVP	Mx	0	6
76	MP1A	X	-10.055	18
77	MP1A	Z	5.805	18
78	MP1A	Mx	.008	18
79	MP1A	X	-10.055	60
80	MP1A	Z	5.805	60
81	MP1A	Mx	.008	60
82	MP1B	X	-7.651	18
83	MP1B	Z	4.417	18
84	MP1B	Mx	-.007	18
85	MP1B	X	-7.651	60
86	MP1B	Z	4.417	60
87	MP1B	Mx	-.007	60
88	MP1C	X	-14.863	18
89	MP1C	Z	8.581	18
90	MP1C	Mx	.007	18
91	MP1C	X	-14.863	60
92	MP1C	Z	8.581	60
93	MP1C	Mx	.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-23.298	12
2	MP4A	Z	0	12
3	MP4A	Mx	.02	12
4	MP4A	X	-23.298	72
5	MP4A	Z	0	72
6	MP4A	Mx	.02	72
7	MP4B	X	-25.767	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	0	12
9	MP4B	Mx	-.012	12
10	MP4B	X	-25.767	72
11	MP4B	Z	0	72
12	MP4B	Mx	-.012	72
13	MP4C	X	-33.174	12
14	MP4C	Z	0	12
15	MP4C	Mx	-.019	12
16	MP4C	X	-33.174	72
17	MP4C	Z	0	72
18	MP4C	Mx	-.019	72
19	MP4A	X	-23.298	12
20	MP4A	Z	0	12
21	MP4A	Mx	.02	12
22	MP4A	X	-23.298	72
23	MP4A	Z	0	72
24	MP4A	Mx	.02	72
25	MP4B	X	-25.767	12
26	MP4B	Z	0	12
27	MP4B	Mx	-.027	12
28	MP4B	X	-25.767	72
29	MP4B	Z	0	72
30	MP4B	Mx	-.027	72
31	MP4C	X	-33.174	12
32	MP4C	Z	0	12
33	MP4C	Mx	.019	12
34	MP4C	X	-33.174	72
35	MP4C	Z	0	72
36	MP4C	Mx	.019	72
37	MP2A	X	-18.84	12
38	MP2A	Z	0	12
39	MP2A	Mx	.015	12
40	MP2A	X	-18.84	72
41	MP2A	Z	0	72
42	MP2A	Mx	.015	72
43	MP2B	X	-21.943	12
44	MP2B	Z	0	12
45	MP2B	Mx	-.015	12
46	MP2B	X	-21.943	72
47	MP2B	Z	0	72
48	MP2B	Mx	-.015	72
49	MP2C	X	-31.251	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	-31.251	72
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	-12.216	18
56	MP3A	Z	0	18
57	MP3A	Mx	-.006	18
58	MP3B	X	-13.473	18
59	MP3B	Z	0	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	.006	18
61	MP3C	X	-17.245	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	-10.304	18
65	MP2A	Z	0	18
66	MP2A	Mx	-.006	18
67	MP2B	X	-12.04	18
68	MP2B	Z	0	18
69	MP2B	Mx	.006	18
70	MP2C	X	-17.245	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	-15.375	6
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	-8.834	18
77	MP1A	Z	0	18
78	MP1A	Mx	.007	18
79	MP1A	X	-8.834	60
80	MP1A	Z	0	60
81	MP1A	Mx	.007	60
82	MP1B	X	-11.61	18
83	MP1B	Z	0	18
84	MP1B	Mx	-.008	18
85	MP1B	X	-11.61	60
86	MP1B	Z	0	60
87	MP1B	Mx	-.008	60
88	MP1C	X	-19.939	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	-19.939	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-22.315	12
2	MP4A	Z	-12.884	12
3	MP4A	Mx	.012	12
4	MP4A	X	-22.315	72
5	MP4A	Z	-12.884	72
6	MP4A	Mx	.012	72
7	MP4B	X	-26.591	12
8	MP4B	Z	-15.352	12
9	MP4B	Mx	.002	12
10	MP4B	X	-26.591	72
11	MP4B	Z	-15.352	72
12	MP4B	Mx	.002	72
13	MP4C	X	-26.591	12
14	MP4C	Z	-15.352	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP4C	Mx	-.029	12
16	MP4C	X	-26.591	72
17	MP4C	Z	-15.352	72
18	MP4C	Mx	-.029	72
19	MP4A	X	-22.315	12
20	MP4A	Z	-12.884	12
21	MP4A	Mx	.027	12
22	MP4A	X	-22.315	72
23	MP4A	Z	-12.884	72
24	MP4A	Mx	.027	72
25	MP4B	X	-26.591	12
26	MP4B	Z	-15.352	12
27	MP4B	Mx	-.029	12
28	MP4B	X	-26.591	72
29	MP4B	Z	-15.352	72
30	MP4B	Mx	-.029	72
31	MP4C	X	-26.591	12
32	MP4C	Z	-15.352	12
33	MP4C	Mx	.002	12
34	MP4C	X	-26.591	72
35	MP4C	Z	-15.352	72
36	MP4C	Mx	.002	72
37	MP2A	X	-19.003	12
38	MP2A	Z	-10.971	12
39	MP2A	Mx	.015	12
40	MP2A	X	-19.003	72
41	MP2A	Z	-10.971	72
42	MP2A	Mx	.015	72
43	MP2B	X	-24.377	12
44	MP2B	Z	-14.074	12
45	MP2B	Mx	-.011	12
46	MP2B	X	-24.377	72
47	MP2B	Z	-14.074	72
48	MP2B	Mx	-.011	72
49	MP2C	X	-24.377	12
50	MP2C	Z	-14.074	12
51	MP2C	Mx	-.011	12
52	MP2C	X	-24.377	72
53	MP2C	Z	-14.074	72
54	MP2C	Mx	-.011	72
55	MP3A	X	-11.668	18
56	MP3A	Z	-6.736	18
57	MP3A	Mx	-.006	18
58	MP3B	X	-13.845	18
59	MP3B	Z	-7.994	18
60	MP3B	Mx	.004	18
61	MP3C	X	-13.845	18
62	MP3C	Z	-7.994	18
63	MP3C	Mx	.004	18
64	MP2A	X	-10.427	18
65	MP2A	Z	-6.02	18
66	MP2A	Mx	-.006	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
67	MP2B	X	-13.432	18
68	MP2B	Z	-7.755	18
69	MP2B	Mx	.005	18
70	MP2C	X	-13.432	18
71	MP2C	Z	-7.755	18
72	MP2C	Mx	.005	18
73	OVP	X	-14.802	6
74	OVP	Z	-8.546	6
75	OVP	Mx	0	6
76	MP1A	X	-10.055	18
77	MP1A	Z	-5.805	18
78	MP1A	Mx	.008	18
79	MP1A	X	-10.055	60
80	MP1A	Z	-5.805	60
81	MP1A	Mx	.008	60
82	MP1B	X	-14.863	18
83	MP1B	Z	-8.581	18
84	MP1B	Mx	-.007	18
85	MP1B	X	-14.863	60
86	MP1B	Z	-8.581	60
87	MP1B	Mx	-.007	60
88	MP1C	X	-14.863	18
89	MP1C	Z	-8.581	18
90	MP1C	Mx	-.007	18
91	MP1C	X	-14.863	60
92	MP1C	Z	-8.581	60
93	MP1C	Mx	-.007	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-15.352	12
2	MP4A	Z	-26.591	12
3	MP4A	Mx	-.002	12
4	MP4A	X	-15.352	72
5	MP4A	Z	-26.591	72
6	MP4A	Mx	-.002	72
7	MP4B	X	-16.587	12
8	MP4B	Z	-28.729	12
9	MP4B	Mx	.019	12
10	MP4B	X	-16.587	72
11	MP4B	Z	-28.729	72
12	MP4B	Mx	.019	72
13	MP4C	X	-12.884	12
14	MP4C	Z	-22.315	12
15	MP4C	Mx	-.027	12
16	MP4C	X	-12.884	72
17	MP4C	Z	-22.315	72
18	MP4C	Mx	-.027	72
19	MP4A	X	-15.352	12
20	MP4A	Z	-26.591	12
21	MP4A	Mx	.029	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP4A	X	-15.352	72
23	MP4A	Z	-26.591	72
24	MP4A	Mx	.029	72
25	MP4B	X	-16.587	12
26	MP4B	Z	-28.729	12
27	MP4B	Mx	-.019	12
28	MP4B	X	-16.587	72
29	MP4B	Z	-28.729	72
30	MP4B	Mx	-.019	72
31	MP4C	X	-12.884	12
32	MP4C	Z	-22.315	12
33	MP4C	Mx	-.012	12
34	MP4C	X	-12.884	72
35	MP4C	Z	-22.315	72
36	MP4C	Mx	-.012	72
37	MP2A	X	-14.074	12
38	MP2A	Z	-24.377	12
39	MP2A	Mx	.011	12
40	MP2A	X	-14.074	72
41	MP2A	Z	-24.377	72
42	MP2A	Mx	.011	72
43	MP2B	X	-15.625	12
44	MP2B	Z	-27.064	12
45	MP2B	Mx	0	12
46	MP2B	X	-15.625	72
47	MP2B	Z	-27.064	72
48	MP2B	Mx	0	72
49	MP2C	X	-10.971	12
50	MP2C	Z	-19.003	12
51	MP2C	Mx	-.015	12
52	MP2C	X	-10.971	72
53	MP2C	Z	-19.003	72
54	MP2C	Mx	-.015	72
55	MP3A	X	-7.994	18
56	MP3A	Z	-13.845	18
57	MP3A	Mx	-.004	18
58	MP3B	X	-8.622	18
59	MP3B	Z	-14.934	18
60	MP3B	Mx	0	18
61	MP3C	X	-6.736	18
62	MP3C	Z	-11.668	18
63	MP3C	Mx	.006	18
64	MP2A	X	-7.755	18
65	MP2A	Z	-13.432	18
66	MP2A	Mx	-.005	18
67	MP2B	X	-8.622	18
68	MP2B	Z	-14.934	18
69	MP2B	Mx	0	18
70	MP2C	X	-6.02	18
71	MP2C	Z	-10.427	18
72	MP2C	Mx	.006	18
73	OVP	X	-10.263	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
74	OVP	Z	-17.776	6
75	OVP	Mx	0	6
76	MP1A	X	-8.581	18
77	MP1A	Z	-14.863	18
78	MP1A	Mx	.007	18
79	MP1A	X	-8.581	60
80	MP1A	Z	-14.863	60
81	MP1A	Mx	.007	60
82	MP1B	X	-9.969	18
83	MP1B	Z	-17.267	18
84	MP1B	Mx	0	18
85	MP1B	X	-9.969	60
86	MP1B	Z	-17.267	60
87	MP1B	Mx	0	60
88	MP1C	X	-5.805	18
89	MP1C	Z	-10.055	18
90	MP1C	Mx	-.008	18
91	MP1C	X	-5.805	60
92	MP1C	Z	-10.055	60
93	MP1C	Mx	-.008	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	-10.338	12
3	MP4A	Mx	-.006	12
4	MP4A	X	0	72
5	MP4A	Z	-10.338	72
6	MP4A	Mx	-.006	72
7	MP4B	X	0	12
8	MP4B	Z	-9.462	12
9	MP4B	Mx	.009	12
10	MP4B	X	0	72
11	MP4B	Z	-9.462	72
12	MP4B	Mx	.009	72
13	MP4C	X	0	12
14	MP4C	Z	-6.834	12
15	MP4C	Mx	-.006	12
16	MP4C	X	0	72
17	MP4C	Z	-6.834	72
18	MP4C	Mx	-.006	72
19	MP4A	X	0	12
20	MP4A	Z	-10.338	12
21	MP4A	Mx	.006	12
22	MP4A	X	0	72
23	MP4A	Z	-10.338	72
24	MP4A	Mx	.006	72
25	MP4B	X	0	12
26	MP4B	Z	-9.462	12
27	MP4B	Mx	-.00064	12
28	MP4B	X	0	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP4B	Z	-9.462	72
30	MP4B	Mx	-.00064	72
31	MP4C	X	0	12
32	MP4C	Z	-6.834	12
33	MP4C	Mx	-.006	12
34	MP4C	X	0	72
35	MP4C	Z	-6.834	72
36	MP4C	Mx	-.006	72
37	MP2A	X	0	12
38	MP2A	Z	-9.686	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	-9.686	72
42	MP2A	Mx	0	72
43	MP2B	X	0	12
44	MP2B	Z	-8.594	12
45	MP2B	Mx	.003	12
46	MP2B	X	0	72
47	MP2B	Z	-8.594	72
48	MP2B	Mx	.003	72
49	MP2C	X	0	12
50	MP2C	Z	-5.32	12
51	MP2C	Mx	-.004	12
52	MP2C	X	0	72
53	MP2C	Z	-5.32	72
54	MP2C	Mx	-.004	72
55	MP3A	X	0	18
56	MP3A	Z	-4.785	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	-4.389	18
60	MP3B	Mx	-.001	18
61	MP3C	X	0	18
62	MP3C	Z	-3.199	18
63	MP3C	Mx	.002	18
64	MP2A	X	0	18
65	MP2A	Z	-4.785	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	-4.237	18
69	MP2B	Mx	-.001	18
70	MP2C	X	0	18
71	MP2C	Z	-2.591	18
72	MP2C	Mx	.002	18
73	OVP	X	0	6
74	OVP	Z	-6.397	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	-6.013	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	-6.013	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	-5.099	18
84	MP1B	Mx	.002	18
85	MP1B	X	0	60
86	MP1B	Z	-5.099	60
87	MP1B	Mx	.002	60
88	MP1C	X	0	18
89	MP1C	Z	-2.354	18
90	MP1C	Mx	-.002	18
91	MP1C	X	0	60
92	MP1C	Z	-2.354	60
93	MP1C	Mx	-.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	4.731	12
2	MP4A	Z	-8.194	12
3	MP4A	Mx	-.009	12
4	MP4A	X	4.731	72
5	MP4A	Z	-8.194	72
6	MP4A	Mx	-.009	72
7	MP4B	X	3.855	12
8	MP4B	Z	-6.677	12
9	MP4B	Mx	.008	12
10	MP4B	X	3.855	72
11	MP4B	Z	-6.677	72
12	MP4B	Mx	.008	72
13	MP4C	X	3.855	12
14	MP4C	Z	-6.677	12
15	MP4C	Mx	-.004	12
16	MP4C	X	3.855	72
17	MP4C	Z	-6.677	72
18	MP4C	Mx	-.004	72
19	MP4A	X	4.731	12
20	MP4A	Z	-8.194	12
21	MP4A	Mx	.00064	12
22	MP4A	X	4.731	72
23	MP4A	Z	-8.194	72
24	MP4A	Mx	.00064	72
25	MP4B	X	3.855	12
26	MP4B	Z	-6.677	12
27	MP4B	Mx	.004	12
28	MP4B	X	3.855	72
29	MP4B	Z	-6.677	72
30	MP4B	Mx	.004	72
31	MP4C	X	3.855	12
32	MP4C	Z	-6.677	12
33	MP4C	Mx	-.008	12
34	MP4C	X	3.855	72
35	MP4C	Z	-6.677	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP4C	Mx	-.008	72
37	MP2A	X	4.297	12
38	MP2A	Z	-7.443	12
39	MP2A	Mx	-.003	12
40	MP2A	X	4.297	72
41	MP2A	Z	-7.443	72
42	MP2A	Mx	-.003	72
43	MP2B	X	3.206	12
44	MP2B	Z	-5.553	12
45	MP2B	Mx	.004	12
46	MP2B	X	3.206	72
47	MP2B	Z	-5.553	72
48	MP2B	Mx	.004	72
49	MP2C	X	3.206	12
50	MP2C	Z	-5.553	12
51	MP2C	Mx	-.004	12
52	MP2C	X	3.206	72
53	MP2C	Z	-5.553	72
54	MP2C	Mx	-.004	72
55	MP3A	X	2.194	18
56	MP3A	Z	-3.801	18
57	MP3A	Mx	.001	18
58	MP3B	X	1.798	18
59	MP3B	Z	-3.114	18
60	MP3B	Mx	-.002	18
61	MP3C	X	1.798	18
62	MP3C	Z	-3.114	18
63	MP3C	Mx	.002	18
64	MP2A	X	2.118	18
65	MP2A	Z	-3.669	18
66	MP2A	Mx	.001	18
67	MP2B	X	1.57	18
68	MP2B	Z	-2.719	18
69	MP2B	Mx	-.002	18
70	MP2C	X	1.57	18
71	MP2C	Z	-2.719	18
72	MP2C	Mx	.002	18
73	OVP	X	2.918	6
74	OVP	Z	-5.055	6
75	OVP	Mx	0	6
76	MP1A	X	2.549	18
77	MP1A	Z	-4.416	18
78	MP1A	Mx	-.002	18
79	MP1A	X	2.549	60
80	MP1A	Z	-4.416	60
81	MP1A	Mx	-.002	60
82	MP1B	X	1.635	18
83	MP1B	Z	-2.831	18
84	MP1B	Mx	.002	18
85	MP1B	X	1.635	60
86	MP1B	Z	-2.831	60
87	MP1B	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
88	MP1C	X	1.635	18
89	MP1C	Z	-2.831	18
90	MP1C	Mx	-.002	18
91	MP1C	X	1.635	60
92	MP1C	Z	-2.831	60
93	MP1C	Mx	-.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	6.677	12
2	MP4A	Z	-3.855	12
3	MP4A	Mx	-.008	12
4	MP4A	X	6.677	72
5	MP4A	Z	-3.855	72
6	MP4A	Mx	-.008	72
7	MP4B	X	5.919	12
8	MP4B	Z	-3.417	12
9	MP4B	Mx	.006	12
10	MP4B	X	5.919	72
11	MP4B	Z	-3.417	72
12	MP4B	Mx	.006	72
13	MP4C	X	8.194	12
14	MP4C	Z	-4.731	12
15	MP4C	Mx	.00064	12
16	MP4C	X	8.194	72
17	MP4C	Z	-4.731	72
18	MP4C	Mx	.00064	72
19	MP4A	X	6.677	12
20	MP4A	Z	-3.855	12
21	MP4A	Mx	-.004	12
22	MP4A	X	6.677	72
23	MP4A	Z	-3.855	72
24	MP4A	Mx	-.004	72
25	MP4B	X	5.919	12
26	MP4B	Z	-3.417	12
27	MP4B	Mx	.006	12
28	MP4B	X	5.919	72
29	MP4B	Z	-3.417	72
30	MP4B	Mx	.006	72
31	MP4C	X	8.194	12
32	MP4C	Z	-4.731	12
33	MP4C	Mx	-.009	12
34	MP4C	X	8.194	72
35	MP4C	Z	-4.731	72
36	MP4C	Mx	-.009	72
37	MP2A	X	5.553	12
38	MP2A	Z	-3.206	12
39	MP2A	Mx	-.004	12
40	MP2A	X	5.553	72
41	MP2A	Z	-3.206	72
42	MP2A	Mx	-.004	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP2B	X	4.607	12
44	MP2B	Z	-2.66	12
45	MP2B	Mx	.004	12
46	MP2B	X	4.607	72
47	MP2B	Z	-2.66	72
48	MP2B	Mx	.004	72
49	MP2C	X	7.443	12
50	MP2C	Z	-4.297	12
51	MP2C	Mx	-.003	12
52	MP2C	X	7.443	72
53	MP2C	Z	-4.297	72
54	MP2C	Mx	-.003	72
55	MP3A	X	3.114	18
56	MP3A	Z	-1.798	18
57	MP3A	Mx	.002	18
58	MP3B	X	2.77	18
59	MP3B	Z	-1.599	18
60	MP3B	Mx	-.002	18
61	MP3C	X	3.801	18
62	MP3C	Z	-2.194	18
63	MP3C	Mx	.001	18
64	MP2A	X	2.719	18
65	MP2A	Z	-1.57	18
66	MP2A	Mx	.002	18
67	MP2B	X	2.244	18
68	MP2B	Z	-1.295	18
69	MP2B	Mx	-.002	18
70	MP2C	X	3.669	18
71	MP2C	Z	-2.118	18
72	MP2C	Mx	.001	18
73	OVP	X	4.083	6
74	OVP	Z	-2.358	6
75	OVP	Mx	0	6
76	MP1A	X	2.831	18
77	MP1A	Z	-1.635	18
78	MP1A	Mx	-.002	18
79	MP1A	X	2.831	60
80	MP1A	Z	-1.635	60
81	MP1A	Mx	-.002	60
82	MP1B	X	2.039	18
83	MP1B	Z	-1.177	18
84	MP1B	Mx	.002	18
85	MP1B	X	2.039	60
86	MP1B	Z	-1.177	60
87	MP1B	Mx	.002	60
88	MP1C	X	4.416	18
89	MP1C	Z	-2.549	18
90	MP1C	Mx	-.002	18
91	MP1C	X	4.416	60
92	MP1C	Z	-2.549	60
93	MP1C	Mx	-.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	6.834	12
2	MP4A	Z	0	12
3	MP4A	Mx	-.006	12
4	MP4A	X	6.834	72
5	MP4A	Z	0	72
6	MP4A	Mx	-.006	72
7	MP4B	X	7.71	12
8	MP4B	Z	0	12
9	MP4B	Mx	.004	12
10	MP4B	X	7.71	72
11	MP4B	Z	0	72
12	MP4B	Mx	.004	72
13	MP4C	X	10.338	12
14	MP4C	Z	0	12
15	MP4C	Mx	.006	12
16	MP4C	X	10.338	72
17	MP4C	Z	0	72
18	MP4C	Mx	.006	72
19	MP4A	X	6.834	12
20	MP4A	Z	0	12
21	MP4A	Mx	-.006	12
22	MP4A	X	6.834	72
23	MP4A	Z	0	72
24	MP4A	Mx	-.006	72
25	MP4B	X	7.71	12
26	MP4B	Z	0	12
27	MP4B	Mx	.008	12
28	MP4B	X	7.71	72
29	MP4B	Z	0	72
30	MP4B	Mx	.008	72
31	MP4C	X	10.338	12
32	MP4C	Z	0	12
33	MP4C	Mx	-.006	12
34	MP4C	X	10.338	72
35	MP4C	Z	0	72
36	MP4C	Mx	-.006	72
37	MP2A	X	5.32	12
38	MP2A	Z	0	12
39	MP2A	Mx	-.004	12
40	MP2A	X	5.32	72
41	MP2A	Z	0	72
42	MP2A	Mx	-.004	72
43	MP2B	X	6.411	12
44	MP2B	Z	0	12
45	MP2B	Mx	.004	12
46	MP2B	X	6.411	72
47	MP2B	Z	0	72
48	MP2B	Mx	.004	72
49	MP2C	X	9.686	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	9.686	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	3.199	18
56	MP3A	Z	0	18
57	MP3A	Mx	.002	18
58	MP3B	X	3.595	18
59	MP3B	Z	0	18
60	MP3B	Mx	-.002	18
61	MP3C	X	4.785	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	2.591	18
65	MP2A	Z	0	18
66	MP2A	Mx	.002	18
67	MP2B	X	3.139	18
68	MP2B	Z	0	18
69	MP2B	Mx	-.002	18
70	MP2C	X	4.785	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	4.154	6
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	2.354	18
77	MP1A	Z	0	18
78	MP1A	Mx	-.002	18
79	MP1A	X	2.354	60
80	MP1A	Z	0	60
81	MP1A	Mx	-.002	60
82	MP1B	X	3.269	18
83	MP1B	Z	0	18
84	MP1B	Mx	.002	18
85	MP1B	X	3.269	60
86	MP1B	Z	0	60
87	MP1B	Mx	.002	60
88	MP1C	X	6.013	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	6.013	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	6.677	12
2	MP4A	Z	3.855	12
3	MP4A	Mx	-.004	12
4	MP4A	X	6.677	72
5	MP4A	Z	3.855	72
6	MP4A	Mx	-.004	72
7	MP4B	X	8.194	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	4.731	12
9	MP4B	Mx	-.000641	12
10	MP4B	X	8.194	72
11	MP4B	Z	4.731	72
12	MP4B	Mx	-.000641	72
13	MP4C	X	8.194	12
14	MP4C	Z	4.731	12
15	MP4C	Mx	.009	12
16	MP4C	X	8.194	72
17	MP4C	Z	4.731	72
18	MP4C	Mx	.009	72
19	MP4A	X	6.677	12
20	MP4A	Z	3.855	12
21	MP4A	Mx	-.008	12
22	MP4A	X	6.677	72
23	MP4A	Z	3.855	72
24	MP4A	Mx	-.008	72
25	MP4B	X	8.194	12
26	MP4B	Z	4.731	12
27	MP4B	Mx	.009	12
28	MP4B	X	8.194	72
29	MP4B	Z	4.731	72
30	MP4B	Mx	.009	72
31	MP4C	X	8.194	12
32	MP4C	Z	4.731	12
33	MP4C	Mx	-.00064	12
34	MP4C	X	8.194	72
35	MP4C	Z	4.731	72
36	MP4C	Mx	-.00064	72
37	MP2A	X	5.553	12
38	MP2A	Z	3.206	12
39	MP2A	Mx	-.004	12
40	MP2A	X	5.553	72
41	MP2A	Z	3.206	72
42	MP2A	Mx	-.004	72
43	MP2B	X	7.443	12
44	MP2B	Z	4.297	12
45	MP2B	Mx	.003	12
46	MP2B	X	7.443	72
47	MP2B	Z	4.297	72
48	MP2B	Mx	.003	72
49	MP2C	X	7.443	12
50	MP2C	Z	4.297	12
51	MP2C	Mx	.003	12
52	MP2C	X	7.443	72
53	MP2C	Z	4.297	72
54	MP2C	Mx	.003	72
55	MP3A	X	3.114	18
56	MP3A	Z	1.798	18
57	MP3A	Mx	.002	18
58	MP3B	X	3.801	18
59	MP3B	Z	2.194	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	-.001	18
61	MP3C	X	3.801	18
62	MP3C	Z	2.194	18
63	MP3C	Mx	-.001	18
64	MP2A	X	2.719	18
65	MP2A	Z	1.57	18
66	MP2A	Mx	.002	18
67	MP2B	X	3.669	18
68	MP2B	Z	2.118	18
69	MP2B	Mx	-.001	18
70	MP2C	X	3.669	18
71	MP2C	Z	2.118	18
72	MP2C	Mx	-.001	18
73	OVP	X	4.083	6
74	OVP	Z	2.358	6
75	OVP	Mx	0	6
76	MP1A	X	2.831	18
77	MP1A	Z	1.635	18
78	MP1A	Mx	-.002	18
79	MP1A	X	2.831	60
80	MP1A	Z	1.635	60
81	MP1A	Mx	-.002	60
82	MP1B	X	4.416	18
83	MP1B	Z	2.549	18
84	MP1B	Mx	.002	18
85	MP1B	X	4.416	60
86	MP1B	Z	2.549	60
87	MP1B	Mx	.002	60
88	MP1C	X	4.416	18
89	MP1C	Z	2.549	18
90	MP1C	Mx	.002	18
91	MP1C	X	4.416	60
92	MP1C	Z	2.549	60
93	MP1C	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	4.731	12
2	MP4A	Z	8.194	12
3	MP4A	Mx	.00064	12
4	MP4A	X	4.731	72
5	MP4A	Z	8.194	72
6	MP4A	Mx	.00064	72
7	MP4B	X	5.169	12
8	MP4B	Z	8.953	12
9	MP4B	Mx	-.006	12
10	MP4B	X	5.169	72
11	MP4B	Z	8.953	72
12	MP4B	Mx	-.006	72
13	MP4C	X	3.855	12
14	MP4C	Z	6.677	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP4C	Mx	.008	12
16	MP4C	X	3.855	72
17	MP4C	Z	6.677	72
18	MP4C	Mx	.008	72
19	MP4A	X	4.731	12
20	MP4A	Z	8.194	12
21	MP4A	Mx	-.009	12
22	MP4A	X	4.731	72
23	MP4A	Z	8.194	72
24	MP4A	Mx	-.009	72
25	MP4B	X	5.169	12
26	MP4B	Z	8.953	12
27	MP4B	Mx	.006	12
28	MP4B	X	5.169	72
29	MP4B	Z	8.953	72
30	MP4B	Mx	.006	72
31	MP4C	X	3.855	12
32	MP4C	Z	6.677	12
33	MP4C	Mx	.004	12
34	MP4C	X	3.855	72
35	MP4C	Z	6.677	72
36	MP4C	Mx	.004	72
37	MP2A	X	4.297	12
38	MP2A	Z	7.443	12
39	MP2A	Mx	-.003	12
40	MP2A	X	4.297	72
41	MP2A	Z	7.443	72
42	MP2A	Mx	-.003	72
43	MP2B	X	4.843	12
44	MP2B	Z	8.388	12
45	MP2B	Mx	0	12
46	MP2B	X	4.843	72
47	MP2B	Z	8.388	72
48	MP2B	Mx	0	72
49	MP2C	X	3.206	12
50	MP2C	Z	5.553	12
51	MP2C	Mx	.004	12
52	MP2C	X	3.206	72
53	MP2C	Z	5.553	72
54	MP2C	Mx	.004	72
55	MP3A	X	2.194	18
56	MP3A	Z	3.801	18
57	MP3A	Mx	.001	18
58	MP3B	X	2.393	18
59	MP3B	Z	4.144	18
60	MP3B	Mx	0	18
61	MP3C	X	1.798	18
62	MP3C	Z	3.114	18
63	MP3C	Mx	-.002	18
64	MP2A	X	2.118	18
65	MP2A	Z	3.669	18
66	MP2A	Mx	.001	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
67	MP2B	X	2.393	18
68	MP2B	Z	4.144	18
69	MP2B	Mx	0	18
70	MP2C	X	1.57	18
71	MP2C	Z	2.719	18
72	MP2C	Mx	-.002	18
73	OVP	X	2.918	6
74	OVP	Z	5.055	6
75	OVP	Mx	0	6
76	MP1A	X	2.549	18
77	MP1A	Z	4.416	18
78	MP1A	Mx	-.002	18
79	MP1A	X	2.549	60
80	MP1A	Z	4.416	60
81	MP1A	Mx	-.002	60
82	MP1B	X	3.007	18
83	MP1B	Z	5.208	18
84	MP1B	Mx	0	18
85	MP1B	X	3.007	60
86	MP1B	Z	5.208	60
87	MP1B	Mx	0	60
88	MP1C	X	1.635	18
89	MP1C	Z	2.831	18
90	MP1C	Mx	.002	18
91	MP1C	X	1.635	60
92	MP1C	Z	2.831	60
93	MP1C	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	0	12
2	MP4A	Z	10.338	12
3	MP4A	Mx	.006	12
4	MP4A	X	0	72
5	MP4A	Z	10.338	72
6	MP4A	Mx	.006	72
7	MP4B	X	0	12
8	MP4B	Z	9.462	12
9	MP4B	Mx	-.009	12
10	MP4B	X	0	72
11	MP4B	Z	9.462	72
12	MP4B	Mx	-.009	72
13	MP4C	X	0	12
14	MP4C	Z	6.834	12
15	MP4C	Mx	.006	12
16	MP4C	X	0	72
17	MP4C	Z	6.834	72
18	MP4C	Mx	.006	72
19	MP4A	X	0	12
20	MP4A	Z	10.338	12
21	MP4A	Mx	-.006	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP4A	X	0	72
23	MP4A	Z	10.338	72
24	MP4A	Mx	-.006	72
25	MP4B	X	0	12
26	MP4B	Z	9.462	12
27	MP4B	Mx	.00064	12
28	MP4B	X	0	72
29	MP4B	Z	9.462	72
30	MP4B	Mx	.00064	72
31	MP4C	X	0	12
32	MP4C	Z	6.834	12
33	MP4C	Mx	.006	12
34	MP4C	X	0	72
35	MP4C	Z	6.834	72
36	MP4C	Mx	.006	72
37	MP2A	X	0	12
38	MP2A	Z	9.686	12
39	MP2A	Mx	0	12
40	MP2A	X	0	72
41	MP2A	Z	9.686	72
42	MP2A	Mx	0	72
43	MP2B	X	0	12
44	MP2B	Z	8.594	12
45	MP2B	Mx	-.003	12
46	MP2B	X	0	72
47	MP2B	Z	8.594	72
48	MP2B	Mx	-.003	72
49	MP2C	X	0	12
50	MP2C	Z	5.32	12
51	MP2C	Mx	.004	12
52	MP2C	X	0	72
53	MP2C	Z	5.32	72
54	MP2C	Mx	.004	72
55	MP3A	X	0	18
56	MP3A	Z	4.785	18
57	MP3A	Mx	0	18
58	MP3B	X	0	18
59	MP3B	Z	4.389	18
60	MP3B	Mx	.001	18
61	MP3C	X	0	18
62	MP3C	Z	3.199	18
63	MP3C	Mx	-.002	18
64	MP2A	X	0	18
65	MP2A	Z	4.785	18
66	MP2A	Mx	0	18
67	MP2B	X	0	18
68	MP2B	Z	4.237	18
69	MP2B	Mx	.001	18
70	MP2C	X	0	18
71	MP2C	Z	2.591	18
72	MP2C	Mx	-.002	18
73	OVP	X	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
74	OVP	Z	6.397	6
75	OVP	Mx	0	6
76	MP1A	X	0	18
77	MP1A	Z	6.013	18
78	MP1A	Mx	0	18
79	MP1A	X	0	60
80	MP1A	Z	6.013	60
81	MP1A	Mx	0	60
82	MP1B	X	0	18
83	MP1B	Z	5.099	18
84	MP1B	Mx	-.002	18
85	MP1B	X	0	60
86	MP1B	Z	5.099	60
87	MP1B	Mx	-.002	60
88	MP1C	X	0	18
89	MP1C	Z	2.354	18
90	MP1C	Mx	.002	18
91	MP1C	X	0	60
92	MP1C	Z	2.354	60
93	MP1C	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-4.731	12
2	MP4A	Z	8.194	12
3	MP4A	Mx	.009	12
4	MP4A	X	-4.731	72
5	MP4A	Z	8.194	72
6	MP4A	Mx	.009	72
7	MP4B	X	-3.855	12
8	MP4B	Z	6.677	12
9	MP4B	Mx	-.008	12
10	MP4B	X	-3.855	72
11	MP4B	Z	6.677	72
12	MP4B	Mx	-.008	72
13	MP4C	X	-3.855	12
14	MP4C	Z	6.677	12
15	MP4C	Mx	.004	12
16	MP4C	X	-3.855	72
17	MP4C	Z	6.677	72
18	MP4C	Mx	.004	72
19	MP4A	X	-4.731	12
20	MP4A	Z	8.194	12
21	MP4A	Mx	-.00064	12
22	MP4A	X	-4.731	72
23	MP4A	Z	8.194	72
24	MP4A	Mx	-.00064	72
25	MP4B	X	-3.855	12
26	MP4B	Z	6.677	12
27	MP4B	Mx	-.004	12
28	MP4B	X	-3.855	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
29	MP4B	Z	6.677	72
30	MP4B	Mx	-.004	72
31	MP4C	X	-3.855	12
32	MP4C	Z	6.677	12
33	MP4C	Mx	.008	12
34	MP4C	X	-3.855	72
35	MP4C	Z	6.677	72
36	MP4C	Mx	.008	72
37	MP2A	X	-4.297	12
38	MP2A	Z	7.443	12
39	MP2A	Mx	.003	12
40	MP2A	X	-4.297	72
41	MP2A	Z	7.443	72
42	MP2A	Mx	.003	72
43	MP2B	X	-3.206	12
44	MP2B	Z	5.553	12
45	MP2B	Mx	-.004	12
46	MP2B	X	-3.206	72
47	MP2B	Z	5.553	72
48	MP2B	Mx	-.004	72
49	MP2C	X	-3.206	12
50	MP2C	Z	5.553	12
51	MP2C	Mx	.004	12
52	MP2C	X	-3.206	72
53	MP2C	Z	5.553	72
54	MP2C	Mx	.004	72
55	MP3A	X	-2.194	18
56	MP3A	Z	3.801	18
57	MP3A	Mx	-.001	18
58	MP3B	X	-1.798	18
59	MP3B	Z	3.114	18
60	MP3B	Mx	.002	18
61	MP3C	X	-1.798	18
62	MP3C	Z	3.114	18
63	MP3C	Mx	-.002	18
64	MP2A	X	-2.118	18
65	MP2A	Z	3.669	18
66	MP2A	Mx	-.001	18
67	MP2B	X	-1.57	18
68	MP2B	Z	2.719	18
69	MP2B	Mx	.002	18
70	MP2C	X	-1.57	18
71	MP2C	Z	2.719	18
72	MP2C	Mx	-.002	18
73	OVP	X	-2.918	6
74	OVP	Z	5.055	6
75	OVP	Mx	0	6
76	MP1A	X	-2.549	18
77	MP1A	Z	4.416	18
78	MP1A	Mx	.002	18
79	MP1A	X	-2.549	60
80	MP1A	Z	4.416	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
81	MP1A	Mx	.002	60
82	MP1B	X	-1.635	18
83	MP1B	Z	2.831	18
84	MP1B	Mx	-.002	18
85	MP1B	X	-1.635	60
86	MP1B	Z	2.831	60
87	MP1B	Mx	-.002	60
88	MP1C	X	-1.635	18
89	MP1C	Z	2.831	18
90	MP1C	Mx	.002	18
91	MP1C	X	-1.635	60
92	MP1C	Z	2.831	60
93	MP1C	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-6.677	12
2	MP4A	Z	3.855	12
3	MP4A	Mx	.008	12
4	MP4A	X	-6.677	72
5	MP4A	Z	3.855	72
6	MP4A	Mx	.008	72
7	MP4B	X	-5.919	12
8	MP4B	Z	3.417	12
9	MP4B	Mx	-.006	12
10	MP4B	X	-5.919	72
11	MP4B	Z	3.417	72
12	MP4B	Mx	-.006	72
13	MP4C	X	-8.194	12
14	MP4C	Z	4.731	12
15	MP4C	Mx	-.00064	12
16	MP4C	X	-8.194	72
17	MP4C	Z	4.731	72
18	MP4C	Mx	-.00064	72
19	MP4A	X	-6.677	12
20	MP4A	Z	3.855	12
21	MP4A	Mx	.004	12
22	MP4A	X	-6.677	72
23	MP4A	Z	3.855	72
24	MP4A	Mx	.004	72
25	MP4B	X	-5.919	12
26	MP4B	Z	3.417	12
27	MP4B	Mx	-.006	12
28	MP4B	X	-5.919	72
29	MP4B	Z	3.417	72
30	MP4B	Mx	-.006	72
31	MP4C	X	-8.194	12
32	MP4C	Z	4.731	12
33	MP4C	Mx	.009	12
34	MP4C	X	-8.194	72
35	MP4C	Z	4.731	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
36	MP4C	Mx	.009	72
37	MP2A	X	-5.553	12
38	MP2A	Z	3.206	12
39	MP2A	Mx	.004	12
40	MP2A	X	-5.553	72
41	MP2A	Z	3.206	72
42	MP2A	Mx	.004	72
43	MP2B	X	-4.607	12
44	MP2B	Z	2.66	12
45	MP2B	Mx	-.004	12
46	MP2B	X	-4.607	72
47	MP2B	Z	2.66	72
48	MP2B	Mx	-.004	72
49	MP2C	X	-7.443	12
50	MP2C	Z	4.297	12
51	MP2C	Mx	.003	12
52	MP2C	X	-7.443	72
53	MP2C	Z	4.297	72
54	MP2C	Mx	.003	72
55	MP3A	X	-3.114	18
56	MP3A	Z	1.798	18
57	MP3A	Mx	-.002	18
58	MP3B	X	-2.77	18
59	MP3B	Z	1.599	18
60	MP3B	Mx	.002	18
61	MP3C	X	-3.801	18
62	MP3C	Z	2.194	18
63	MP3C	Mx	-.001	18
64	MP2A	X	-2.719	18
65	MP2A	Z	1.57	18
66	MP2A	Mx	-.002	18
67	MP2B	X	-2.244	18
68	MP2B	Z	1.295	18
69	MP2B	Mx	.002	18
70	MP2C	X	-3.669	18
71	MP2C	Z	2.118	18
72	MP2C	Mx	-.001	18
73	OVP	X	-4.083	6
74	OVP	Z	2.358	6
75	OVP	Mx	0	6
76	MP1A	X	-2.831	18
77	MP1A	Z	1.635	18
78	MP1A	Mx	.002	18
79	MP1A	X	-2.831	60
80	MP1A	Z	1.635	60
81	MP1A	Mx	.002	60
82	MP1B	X	-2.039	18
83	MP1B	Z	1.177	18
84	MP1B	Mx	-.002	18
85	MP1B	X	-2.039	60
86	MP1B	Z	1.177	60
87	MP1B	Mx	-.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
88	MP1C	X	-4.416	18
89	MP1C	Z	2.549	18
90	MP1C	Mx	.002	18
91	MP1C	X	-4.416	60
92	MP1C	Z	2.549	60
93	MP1C	Mx	.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-6.834	12
2	MP4A	Z	0	12
3	MP4A	Mx	.006	12
4	MP4A	X	-6.834	72
5	MP4A	Z	0	72
6	MP4A	Mx	.006	72
7	MP4B	X	-7.71	12
8	MP4B	Z	0	12
9	MP4B	Mx	-.004	12
10	MP4B	X	-7.71	72
11	MP4B	Z	0	72
12	MP4B	Mx	-.004	72
13	MP4C	X	-10.338	12
14	MP4C	Z	0	12
15	MP4C	Mx	-.006	12
16	MP4C	X	-10.338	72
17	MP4C	Z	0	72
18	MP4C	Mx	-.006	72
19	MP4A	X	-6.834	12
20	MP4A	Z	0	12
21	MP4A	Mx	.006	12
22	MP4A	X	-6.834	72
23	MP4A	Z	0	72
24	MP4A	Mx	.006	72
25	MP4B	X	-7.71	12
26	MP4B	Z	0	12
27	MP4B	Mx	-.008	12
28	MP4B	X	-7.71	72
29	MP4B	Z	0	72
30	MP4B	Mx	-.008	72
31	MP4C	X	-10.338	12
32	MP4C	Z	0	12
33	MP4C	Mx	.006	12
34	MP4C	X	-10.338	72
35	MP4C	Z	0	72
36	MP4C	Mx	.006	72
37	MP2A	X	-5.32	12
38	MP2A	Z	0	12
39	MP2A	Mx	.004	12
40	MP2A	X	-5.32	72
41	MP2A	Z	0	72
42	MP2A	Mx	.004	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	MP2B	X	-6.411	12
44	MP2B	Z	0	12
45	MP2B	Mx	-.004	12
46	MP2B	X	-6.411	72
47	MP2B	Z	0	72
48	MP2B	Mx	-.004	72
49	MP2C	X	-9.686	12
50	MP2C	Z	0	12
51	MP2C	Mx	0	12
52	MP2C	X	-9.686	72
53	MP2C	Z	0	72
54	MP2C	Mx	0	72
55	MP3A	X	-3.199	18
56	MP3A	Z	0	18
57	MP3A	Mx	-.002	18
58	MP3B	X	-3.595	18
59	MP3B	Z	0	18
60	MP3B	Mx	.002	18
61	MP3C	X	-4.785	18
62	MP3C	Z	0	18
63	MP3C	Mx	0	18
64	MP2A	X	-2.591	18
65	MP2A	Z	0	18
66	MP2A	Mx	-.002	18
67	MP2B	X	-3.139	18
68	MP2B	Z	0	18
69	MP2B	Mx	.002	18
70	MP2C	X	-4.785	18
71	MP2C	Z	0	18
72	MP2C	Mx	0	18
73	OVP	X	-4.154	6
74	OVP	Z	0	6
75	OVP	Mx	0	6
76	MP1A	X	-2.354	18
77	MP1A	Z	0	18
78	MP1A	Mx	.002	18
79	MP1A	X	-2.354	60
80	MP1A	Z	0	60
81	MP1A	Mx	.002	60
82	MP1B	X	-3.269	18
83	MP1B	Z	0	18
84	MP1B	Mx	-.002	18
85	MP1B	X	-3.269	60
86	MP1B	Z	0	60
87	MP1B	Mx	-.002	60
88	MP1C	X	-6.013	18
89	MP1C	Z	0	18
90	MP1C	Mx	0	18
91	MP1C	X	-6.013	60
92	MP1C	Z	0	60
93	MP1C	Mx	0	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-6.677	12
2	MP4A	Z	-3.855	12
3	MP4A	Mx	.004	12
4	MP4A	X	-6.677	72
5	MP4A	Z	-3.855	72
6	MP4A	Mx	.004	72
7	MP4B	X	-8.194	12
8	MP4B	Z	-4.731	12
9	MP4B	Mx	.000641	12
10	MP4B	X	-8.194	72
11	MP4B	Z	-4.731	72
12	MP4B	Mx	.000641	72
13	MP4C	X	-8.194	12
14	MP4C	Z	-4.731	12
15	MP4C	Mx	-.009	12
16	MP4C	X	-8.194	72
17	MP4C	Z	-4.731	72
18	MP4C	Mx	-.009	72
19	MP4A	X	-6.677	12
20	MP4A	Z	-3.855	12
21	MP4A	Mx	.008	12
22	MP4A	X	-6.677	72
23	MP4A	Z	-3.855	72
24	MP4A	Mx	.008	72
25	MP4B	X	-8.194	12
26	MP4B	Z	-4.731	12
27	MP4B	Mx	-.009	12
28	MP4B	X	-8.194	72
29	MP4B	Z	-4.731	72
30	MP4B	Mx	-.009	72
31	MP4C	X	-8.194	12
32	MP4C	Z	-4.731	12
33	MP4C	Mx	.00064	12
34	MP4C	X	-8.194	72
35	MP4C	Z	-4.731	72
36	MP4C	Mx	.00064	72
37	MP2A	X	-5.553	12
38	MP2A	Z	-3.206	12
39	MP2A	Mx	.004	12
40	MP2A	X	-5.553	72
41	MP2A	Z	-3.206	72
42	MP2A	Mx	.004	72
43	MP2B	X	-7.443	12
44	MP2B	Z	-4.297	12
45	MP2B	Mx	-.003	12
46	MP2B	X	-7.443	72
47	MP2B	Z	-4.297	72
48	MP2B	Mx	-.003	72
49	MP2C	X	-7.443	12
50	MP2C	Z	-4.297	12
51	MP2C	Mx	-.003	12
52	MP2C	X	-7.443	72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
53	MP2C	Z	-4.297	72
54	MP2C	Mx	-.003	72
55	MP3A	X	-3.114	18
56	MP3A	Z	-1.798	18
57	MP3A	Mx	-.002	18
58	MP3B	X	-3.801	18
59	MP3B	Z	-2.194	18
60	MP3B	Mx	.001	18
61	MP3C	X	-3.801	18
62	MP3C	Z	-2.194	18
63	MP3C	Mx	.001	18
64	MP2A	X	-2.719	18
65	MP2A	Z	-1.57	18
66	MP2A	Mx	-.002	18
67	MP2B	X	-3.669	18
68	MP2B	Z	-2.118	18
69	MP2B	Mx	.001	18
70	MP2C	X	-3.669	18
71	MP2C	Z	-2.118	18
72	MP2C	Mx	.001	18
73	OVP	X	-4.083	6
74	OVP	Z	-2.358	6
75	OVP	Mx	0	6
76	MP1A	X	-2.831	18
77	MP1A	Z	-1.635	18
78	MP1A	Mx	.002	18
79	MP1A	X	-2.831	60
80	MP1A	Z	-1.635	60
81	MP1A	Mx	.002	60
82	MP1B	X	-4.416	18
83	MP1B	Z	-2.549	18
84	MP1B	Mx	-.002	18
85	MP1B	X	-4.416	60
86	MP1B	Z	-2.549	60
87	MP1B	Mx	-.002	60
88	MP1C	X	-4.416	18
89	MP1C	Z	-2.549	18
90	MP1C	Mx	-.002	18
91	MP1C	X	-4.416	60
92	MP1C	Z	-2.549	60
93	MP1C	Mx	-.002	60

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP4A	X	-4.731	12
2	MP4A	Z	-8.194	12
3	MP4A	Mx	-.00064	12
4	MP4A	X	-4.731	72
5	MP4A	Z	-8.194	72
6	MP4A	Mx	-.00064	72
7	MP4B	X	-5.169	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
8	MP4B	Z	-8.953	12
9	MP4B	Mx	.006	12
10	MP4B	X	-5.169	72
11	MP4B	Z	-8.953	72
12	MP4B	Mx	.006	72
13	MP4C	X	-3.855	12
14	MP4C	Z	-6.677	12
15	MP4C	Mx	-.008	12
16	MP4C	X	-3.855	72
17	MP4C	Z	-6.677	72
18	MP4C	Mx	-.008	72
19	MP4A	X	-4.731	12
20	MP4A	Z	-8.194	12
21	MP4A	Mx	.009	12
22	MP4A	X	-4.731	72
23	MP4A	Z	-8.194	72
24	MP4A	Mx	.009	72
25	MP4B	X	-5.169	12
26	MP4B	Z	-8.953	12
27	MP4B	Mx	-.006	12
28	MP4B	X	-5.169	72
29	MP4B	Z	-8.953	72
30	MP4B	Mx	-.006	72
31	MP4C	X	-3.855	12
32	MP4C	Z	-6.677	12
33	MP4C	Mx	-.004	12
34	MP4C	X	-3.855	72
35	MP4C	Z	-6.677	72
36	MP4C	Mx	-.004	72
37	MP2A	X	-4.297	12
38	MP2A	Z	-7.443	12
39	MP2A	Mx	.003	12
40	MP2A	X	-4.297	72
41	MP2A	Z	-7.443	72
42	MP2A	Mx	.003	72
43	MP2B	X	-4.843	12
44	MP2B	Z	-8.388	12
45	MP2B	Mx	0	12
46	MP2B	X	-4.843	72
47	MP2B	Z	-8.388	72
48	MP2B	Mx	0	72
49	MP2C	X	-3.206	12
50	MP2C	Z	-5.553	12
51	MP2C	Mx	-.004	12
52	MP2C	X	-3.206	72
53	MP2C	Z	-5.553	72
54	MP2C	Mx	-.004	72
55	MP3A	X	-2.194	18
56	MP3A	Z	-3.801	18
57	MP3A	Mx	-.001	18
58	MP3B	X	-2.393	18
59	MP3B	Z	-4.144	18

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
60	MP3B	Mx	0	18
61	MP3C	X	-1.798	18
62	MP3C	Z	-3.114	18
63	MP3C	Mx	.002	18
64	MP2A	X	-2.118	18
65	MP2A	Z	-3.669	18
66	MP2A	Mx	-.001	18
67	MP2B	X	-2.393	18
68	MP2B	Z	-4.144	18
69	MP2B	Mx	0	18
70	MP2C	X	-1.57	18
71	MP2C	Z	-2.719	18
72	MP2C	Mx	.002	18
73	OVP	X	-2.918	6
74	OVP	Z	-5.055	6
75	OVP	Mx	0	6
76	MP1A	X	-2.549	18
77	MP1A	Z	-4.416	18
78	MP1A	Mx	.002	18
79	MP1A	X	-2.549	60
80	MP1A	Z	-4.416	60
81	MP1A	Mx	.002	60
82	MP1B	X	-3.007	18
83	MP1B	Z	-5.208	18
84	MP1B	Mx	0	18
85	MP1B	X	-3.007	60
86	MP1B	Z	-5.208	60
87	MP1B	Mx	0	60
88	MP1C	X	-1.635	18
89	MP1C	Z	-2.831	18
90	MP1C	Mx	-.002	18
91	MP1C	X	-1.635	60
92	MP1C	Z	-2.831	60
93	MP1C	Mx	-.002	60

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M7A	Y	-500	%14.878

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M7A	Y	-500	%53.57

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M7A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M7A	Y	-250	0

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	Y	-15.249	-15.249	0	%100
2	M2	Y	-16.715	-16.715	0	%100
3	M5	Y	-15.961	-15.961	0	%100
4	M6	Y	-15.961	-15.961	0	%100
5	M7	Y	-15.961	-15.961	0	%100
6	M6A	Y	-12.317	-12.317	0	%100
7	M7A	Y	-12.317	-12.317	0	%100
8	M23A	Y	-12.317	-12.317	0	%100
9	M39A	Y	-12.317	-12.317	0	%100
10	M55	Y	-16.715	-16.715	0	%100
11	M56	Y	-16.715	-16.715	0	%100
12	M15	Y	-15.249	-15.249	0	%100
13	M16	Y	-15.249	-15.249	0	%100
14	MP2A	Y	-8.444	-8.444	0	%100
15	M48	Y	-13.916	-13.916	0	%100
16	MP4A	Y	-8.444	-8.444	0	%100
17	M64	Y	-13.916	-13.916	0	%100
18	MP3A	Y	-8.444	-8.444	0	%100
19	M67	Y	-13.916	-13.916	0	%100
20	MP1A	Y	-8.444	-8.444	0	%100
21	M70	Y	-13.916	-13.916	0	%100
22	MP2B	Y	-8.444	-8.444	0	%100
23	M38	Y	-13.916	-13.916	0	%100
24	MP4B	Y	-8.444	-8.444	0	%100
25	M43	Y	-13.916	-13.916	0	%100
26	MP3B	Y	-8.444	-8.444	0	%100
27	M48A	Y	-13.916	-13.916	0	%100
28	MP1B	Y	-8.444	-8.444	0	%100
29	M53	Y	-13.916	-13.916	0	%100
30	MP2C	Y	-8.444	-8.444	0	%100
31	M58	Y	-13.916	-13.916	0	%100
32	MP4C	Y	-8.444	-8.444	0	%100
33	M63	Y	-13.916	-13.916	0	%100
34	MP3C	Y	-8.444	-8.444	0	%100
35	M68B	Y	-13.916	-13.916	0	%100
36	MP1C	Y	-8.444	-8.444	0	%100
37	M73	Y	-13.916	-13.916	0	%100
38	M80	Y	-8.444	-8.444	0	%100
39	M100	Y	-12.317	-12.317	0	%100
40	M101	Y	-12.317	-12.317	0	%100
41	M102	Y	-12.317	-12.317	0	%100
42	M109	Y	-8.444	-8.444	0	%100
43	M110	Y	-8.444	-8.444	0	%100
44	M111	Y	-8.444	-8.444	0	%100
45	M101A	Y	-8.444	-8.444	0	%100
46	M102A	Y	-8.444	-8.444	0	%100
47	M101B	Y	-12.317	-12.317	0	%100
48	M102B	Y	-12.317	-12.317	0	%100
49	OVP	Y	-8.444	-8.444	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-12.308	-12.308	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-12.308	-12.308	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-19.461	-19.461	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-19.461	-19.461	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-4.865	-4.865	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-4.865	-4.865	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	-10.837	-10.837	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	-10.837	-10.837	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-8.271	-8.271	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	-8.271	-8.271	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-9.244	-9.244	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	-2.433	-2.433	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-9.244	-9.244	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	-2.433	-2.433	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-9.244	-9.244	0	%100
37	M67	X	0	0	0	%100
38	M67	Z	-2.433	-2.433	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-9.244	-9.244	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	-2.433	-2.433	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	-9.244	-9.244	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	-15.204	-15.204	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-9.244	-9.244	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-15.204	-15.204	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-9.244	-9.244	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[in,%]	End Location[in,%]
53	M48A	X	0	0	0	%100
54	M48A	Z	-15.204	-15.204	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	-9.244	-9.244	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-15.204	-15.204	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-9.244	-9.244	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-15.204	-15.204	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	-9.244	-9.244	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-15.204	-15.204	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	-9.244	-9.244	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	-15.204	-15.204	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	-9.244	-9.244	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-15.204	-15.204	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	-9.244	-9.244	0	%100
77	M100	X	0	0	0	%100
78	M100	Z	-15.244	-15.244	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	-15.244	-15.244	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	-15.244	-15.244	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	-1.708	-1.708	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	-1.708	-1.708	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	-6.832	-6.832	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	-2.311	-2.311	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	-2.311	-2.311	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	-4.865	-4.865	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	-4.865	-4.865	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	-7.559	-7.559	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[in,%]	End Location[in,%]
1	M1	X	1.378	1.378	0	%100
2	M1	Z	-2.388	-2.388	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
3	M2	X	1.806	1.806	0	%100
4	M2	Z	-3.128	-3.128	0	%100
5	M5	X	2.051	2.051	0	%100
6	M5	Z	-3.553	-3.553	0	%100
7	M6	X	2.051	2.051	0	%100
8	M6	Z	-3.553	-3.553	0	%100
9	M7	X	8.205	8.205	0	%100
10	M7	Z	-14.212	-14.212	0	%100
11	M6A	X	7.298	7.298	0	%100
12	M6A	Z	-12.64	-12.64	0	%100
13	M7A	X	7.298	7.298	0	%100
14	M7A	Z	-12.64	-12.64	0	%100
15	M23A	X	7.298	7.298	0	%100
16	M23A	Z	-12.64	-12.64	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	1.806	1.806	0	%100
20	M55	Z	-3.128	-3.128	0	%100
21	M56	X	7.225	7.225	0	%100
22	M56	Z	-12.513	-12.513	0	%100
23	M15	X	1.378	1.378	0	%100
24	M15	Z	-2.388	-2.388	0	%100
25	M16	X	5.514	5.514	0	%100
26	M16	Z	-9.55	-9.55	0	%100
27	MP2A	X	4.622	4.622	0	%100
28	MP2A	Z	-8.005	-8.005	0	%100
29	M48	X	3.345	3.345	0	%100
30	M48	Z	-5.793	-5.793	0	%100
31	MP4A	X	4.622	4.622	0	%100
32	MP4A	Z	-8.005	-8.005	0	%100
33	M64	X	3.345	3.345	0	%100
34	M64	Z	-5.793	-5.793	0	%100
35	MP3A	X	4.622	4.622	0	%100
36	MP3A	Z	-8.005	-8.005	0	%100
37	M67	X	3.345	3.345	0	%100
38	M67	Z	-5.793	-5.793	0	%100
39	MP1A	X	4.622	4.622	0	%100
40	MP1A	Z	-8.005	-8.005	0	%100
41	M70	X	3.345	3.345	0	%100
42	M70	Z	-5.793	-5.793	0	%100
43	MP2B	X	4.622	4.622	0	%100
44	MP2B	Z	-8.005	-8.005	0	%100
45	M38	X	3.345	3.345	0	%100
46	M38	Z	-5.793	-5.793	0	%100
47	MP4B	X	4.622	4.622	0	%100
48	MP4B	Z	-8.005	-8.005	0	%100
49	M43	X	3.345	3.345	0	%100
50	M43	Z	-5.793	-5.793	0	%100
51	MP3B	X	4.622	4.622	0	%100
52	MP3B	Z	-8.005	-8.005	0	%100
53	M48A	X	3.345	3.345	0	%100
54	M48A	Z	-5.793	-5.793	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
55	MP1B	X	4.622	4.622	0	%100
56	MP1B	Z	-8.005	-8.005	0	%100
57	M53	X	3.345	3.345	0	%100
58	M53	Z	-5.793	-5.793	0	%100
59	MP2C	X	4.622	4.622	0	%100
60	MP2C	Z	-8.005	-8.005	0	%100
61	M58	X	9.73	9.73	0	%100
62	M58	Z	-16.853	-16.853	0	%100
63	MP4C	X	4.622	4.622	0	%100
64	MP4C	Z	-8.005	-8.005	0	%100
65	M63	X	9.73	9.73	0	%100
66	M63	Z	-16.853	-16.853	0	%100
67	MP3C	X	4.622	4.622	0	%100
68	MP3C	Z	-8.005	-8.005	0	%100
69	M68B	X	9.73	9.73	0	%100
70	M68B	Z	-16.853	-16.853	0	%100
71	MP1C	X	4.622	4.622	0	%100
72	MP1C	Z	-8.005	-8.005	0	%100
73	M73	X	9.73	9.73	0	%100
74	M73	Z	-16.853	-16.853	0	%100
75	M80	X	3.466	3.466	0	%100
76	M80	Z	-6.004	-6.004	0	%100
77	M100	X	7.622	7.622	0	%100
78	M100	Z	-13.202	-13.202	0	%100
79	M101	X	7.622	7.622	0	%100
80	M101	Z	-13.202	-13.202	0	%100
81	M102	X	7.622	7.622	0	%100
82	M102	Z	-13.202	-13.202	0	%100
83	M109	X	2.562	2.562	0	%100
84	M109	Z	-4.438	-4.438	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	2.562	2.562	0	%100
88	M111	Z	-4.438	-4.438	0	%100
89	M101A	X	3.466	3.466	0	%100
90	M101A	Z	-6.004	-6.004	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	7.298	7.298	0	%100
94	M101B	Z	-12.64	-12.64	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	3.78	3.78	0	%100
98	OVP	Z	-6.546	-6.546	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	7.163	7.163	0	%100
2	M1	Z	-4.135	-4.135	0	%100
3	M2	X	9.385	9.385	0	%100
4	M2	Z	-5.418	-5.418	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
5	M5	X	10.659	10.659	0	%100
6	M5	Z	-6.154	-6.154	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	10.659	10.659	0	%100
10	M7	Z	-6.154	-6.154	0	%100
11	M6A	X	4.213	4.213	0	%100
12	M6A	Z	-2.433	-2.433	0	%100
13	M7A	X	4.213	4.213	0	%100
14	M7A	Z	-2.433	-2.433	0	%100
15	M23A	X	16.853	16.853	0	%100
16	M23A	Z	-9.73	-9.73	0	%100
17	M39A	X	4.213	4.213	0	%100
18	M39A	Z	-2.433	-2.433	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	9.385	9.385	0	%100
22	M56	Z	-5.418	-5.418	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	7.163	7.163	0	%100
26	M16	Z	-4.135	-4.135	0	%100
27	MP2A	X	8.005	8.005	0	%100
28	MP2A	Z	-4.622	-4.622	0	%100
29	M48	X	13.167	13.167	0	%100
30	M48	Z	-7.602	-7.602	0	%100
31	MP4A	X	8.005	8.005	0	%100
32	MP4A	Z	-4.622	-4.622	0	%100
33	M64	X	13.167	13.167	0	%100
34	M64	Z	-7.602	-7.602	0	%100
35	MP3A	X	8.005	8.005	0	%100
36	MP3A	Z	-4.622	-4.622	0	%100
37	M67	X	13.167	13.167	0	%100
38	M67	Z	-7.602	-7.602	0	%100
39	MP1A	X	8.005	8.005	0	%100
40	MP1A	Z	-4.622	-4.622	0	%100
41	M70	X	13.167	13.167	0	%100
42	M70	Z	-7.602	-7.602	0	%100
43	MP2B	X	8.005	8.005	0	%100
44	MP2B	Z	-4.622	-4.622	0	%100
45	M38	X	2.107	2.107	0	%100
46	M38	Z	-1.216	-1.216	0	%100
47	MP4B	X	8.005	8.005	0	%100
48	MP4B	Z	-4.622	-4.622	0	%100
49	M43	X	2.107	2.107	0	%100
50	M43	Z	-1.216	-1.216	0	%100
51	MP3B	X	8.005	8.005	0	%100
52	MP3B	Z	-4.622	-4.622	0	%100
53	M48A	X	2.107	2.107	0	%100
54	M48A	Z	-1.216	-1.216	0	%100
55	MP1B	X	8.005	8.005	0	%100
56	MP1B	Z	-4.622	-4.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
57	M53	X	2.107	2.107	0	%100
58	M53	Z	-1.216	-1.216	0	%100
59	MP2C	X	8.005	8.005	0	%100
60	MP2C	Z	-4.622	-4.622	0	%100
61	M58	X	13.167	13.167	0	%100
62	M58	Z	-7.602	-7.602	0	%100
63	MP4C	X	8.005	8.005	0	%100
64	MP4C	Z	-4.622	-4.622	0	%100
65	M63	X	13.167	13.167	0	%100
66	M63	Z	-7.602	-7.602	0	%100
67	MP3C	X	8.005	8.005	0	%100
68	MP3C	Z	-4.622	-4.622	0	%100
69	M68B	X	13.167	13.167	0	%100
70	M68B	Z	-7.602	-7.602	0	%100
71	MP1C	X	8.005	8.005	0	%100
72	MP1C	Z	-4.622	-4.622	0	%100
73	M73	X	13.167	13.167	0	%100
74	M73	Z	-7.602	-7.602	0	%100
75	M80	X	2.001	2.001	0	%100
76	M80	Z	-1.155	-1.155	0	%100
77	M100	X	13.202	13.202	0	%100
78	M100	Z	-7.622	-7.622	0	%100
79	M101	X	13.202	13.202	0	%100
80	M101	Z	-7.622	-7.622	0	%100
81	M102	X	13.202	13.202	0	%100
82	M102	Z	-7.622	-7.622	0	%100
83	M109	X	5.917	5.917	0	%100
84	M109	Z	-3.416	-3.416	0	%100
85	M110	X	1.479	1.479	0	%100
86	M110	Z	-.854	-.854	0	%100
87	M111	X	1.479	1.479	0	%100
88	M111	Z	-.854	-.854	0	%100
89	M101A	X	8.005	8.005	0	%100
90	M101A	Z	-4.622	-4.622	0	%100
91	M102A	X	2.001	2.001	0	%100
92	M102A	Z	-1.155	-1.155	0	%100
93	M101B	X	16.853	16.853	0	%100
94	M101B	Z	-9.73	-9.73	0	%100
95	M102B	X	4.213	4.213	0	%100
96	M102B	Z	-2.433	-2.433	0	%100
97	OVP	X	6.546	6.546	0	%100
98	OVP	Z	-3.78	-3.78	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[in,%]	End Location[in,%]
1	M1	X	11.028	11.028	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	14.449	14.449	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	16.411	16.411	0	%100
6	M5	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
7	M6	X	4.103	4.103	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	4.103	4.103	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	14.595	14.595	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	14.595	14.595	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	3.612	3.612	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	3.612	3.612	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	2.757	2.757	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	2.757	2.757	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	9.244	9.244	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	19.461	19.461	0	%100
30	M48	Z	0	0	0	%100
31	MP4A	X	9.244	9.244	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	19.461	19.461	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	9.244	9.244	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	19.461	19.461	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	9.244	9.244	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	19.461	19.461	0	%100
42	M70	Z	0	0	0	%100
43	MP2B	X	9.244	9.244	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	6.69	6.69	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	9.244	9.244	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	6.69	6.69	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	9.244	9.244	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	6.69	6.69	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	9.244	9.244	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	6.69	6.69	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
59	MP2C	X	9.244	9.244	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	6.69	6.69	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	9.244	9.244	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	6.69	6.69	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	9.244	9.244	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	6.69	6.69	0	%100
70	M68B	Z	0	0	0	%100
71	MP1C	X	9.244	9.244	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	6.69	6.69	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	15.244	15.244	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	15.244	15.244	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	15.244	15.244	0	%100
82	M102	Z	0	0	0	%100
83	M109	X	5.124	5.124	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	5.124	5.124	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	6.933	6.933	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	6.933	6.933	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	14.595	14.595	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	14.595	14.595	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	7.559	7.559	0	%100
98	OVP	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[in,%]	End Location[in,%]
1	M1	X	7.163	7.163	0	%100
2	M1	Z	4.135	4.135	0	%100
3	M2	X	9.385	9.385	0	%100
4	M2	Z	5.418	5.418	0	%100
5	M5	X	10.659	10.659	0	%100
6	M5	Z	6.154	6.154	0	%100
7	M6	X	10.659	10.659	0	%100
8	M6	Z	6.154	6.154	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	4.213	4.213	0	%100
12	M6A	Z	2.433	2.433	0	%100
13	M7A	X	4.213	4.213	0	%100
14	M7A	Z	2.433	2.433	0	%100
15	M23A	X	4.213	4.213	0	%100
16	M23A	Z	2.433	2.433	0	%100
17	M39A	X	16.853	16.853	0	%100
18	M39A	Z	9.73	9.73	0	%100
19	M55	X	9.385	9.385	0	%100
20	M55	Z	5.418	5.418	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	7.163	7.163	0	%100
24	M15	Z	4.135	4.135	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	8.005	8.005	0	%100
28	MP2A	Z	4.622	4.622	0	%100
29	M48	X	13.167	13.167	0	%100
30	M48	Z	7.602	7.602	0	%100
31	MP4A	X	8.005	8.005	0	%100
32	MP4A	Z	4.622	4.622	0	%100
33	M64	X	13.167	13.167	0	%100
34	M64	Z	7.602	7.602	0	%100
35	MP3A	X	8.005	8.005	0	%100
36	MP3A	Z	4.622	4.622	0	%100
37	M67	X	13.167	13.167	0	%100
38	M67	Z	7.602	7.602	0	%100
39	MP1A	X	8.005	8.005	0	%100
40	MP1A	Z	4.622	4.622	0	%100
41	M70	X	13.167	13.167	0	%100
42	M70	Z	7.602	7.602	0	%100
43	MP2B	X	8.005	8.005	0	%100
44	MP2B	Z	4.622	4.622	0	%100
45	M38	X	13.167	13.167	0	%100
46	M38	Z	7.602	7.602	0	%100
47	MP4B	X	8.005	8.005	0	%100
48	MP4B	Z	4.622	4.622	0	%100
49	M43	X	13.167	13.167	0	%100
50	M43	Z	7.602	7.602	0	%100
51	MP3B	X	8.005	8.005	0	%100
52	MP3B	Z	4.622	4.622	0	%100
53	M48A	X	13.167	13.167	0	%100
54	M48A	Z	7.602	7.602	0	%100
55	MP1B	X	8.005	8.005	0	%100
56	MP1B	Z	4.622	4.622	0	%100
57	M53	X	13.167	13.167	0	%100
58	M53	Z	7.602	7.602	0	%100
59	MP2C	X	8.005	8.005	0	%100
60	MP2C	Z	4.622	4.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
61	M58	X	2.107	2.107	0	%100
62	M58	Z	1.216	1.216	0	%100
63	MP4C	X	8.005	8.005	0	%100
64	MP4C	Z	4.622	4.622	0	%100
65	M63	X	2.107	2.107	0	%100
66	M63	Z	1.216	1.216	0	%100
67	MP3C	X	8.005	8.005	0	%100
68	MP3C	Z	4.622	4.622	0	%100
69	M68B	X	2.107	2.107	0	%100
70	M68B	Z	1.216	1.216	0	%100
71	MP1C	X	8.005	8.005	0	%100
72	MP1C	Z	4.622	4.622	0	%100
73	M73	X	2.107	2.107	0	%100
74	M73	Z	1.216	1.216	0	%100
75	M80	X	2.001	2.001	0	%100
76	M80	Z	1.155	1.155	0	%100
77	M100	X	13.202	13.202	0	%100
78	M100	Z	7.622	7.622	0	%100
79	M101	X	13.202	13.202	0	%100
80	M101	Z	7.622	7.622	0	%100
81	M102	X	13.202	13.202	0	%100
82	M102	Z	7.622	7.622	0	%100
83	M109	X	1.479	1.479	0	%100
84	M109	Z	.854	.854	0	%100
85	M110	X	5.917	5.917	0	%100
86	M110	Z	3.416	3.416	0	%100
87	M111	X	1.479	1.479	0	%100
88	M111	Z	.854	.854	0	%100
89	M101A	X	2.001	2.001	0	%100
90	M101A	Z	1.155	1.155	0	%100
91	M102A	X	8.005	8.005	0	%100
92	M102A	Z	4.622	4.622	0	%100
93	M101B	X	4.213	4.213	0	%100
94	M101B	Z	2.433	2.433	0	%100
95	M102B	X	16.853	16.853	0	%100
96	M102B	Z	9.73	9.73	0	%100
97	OVP	X	6.546	6.546	0	%100
98	OVP	Z	3.78	3.78	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[in,%]	End Location[in,%]
1	M1	X	1.378	1.378	0	%100
2	M1	Z	2.388	2.388	0	%100
3	M2	X	1.806	1.806	0	%100
4	M2	Z	3.128	3.128	0	%100
5	M5	X	2.051	2.051	0	%100
6	M5	Z	3.553	3.553	0	%100
7	M6	X	8.205	8.205	0	%100
8	M6	Z	14.212	14.212	0	%100
9	M7	X	2.051	2.051	0	%100
10	M7	Z	3.553	3.553	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[in,%]	End Location[in,%]
11	M6A	X	7.298	7.298	0	%100
12	M6A	Z	12.64	12.64	0	%100
13	M7A	X	7.298	7.298	0	%100
14	M7A	Z	12.64	12.64	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	7.298	7.298	0	%100
18	M39A	Z	12.64	12.64	0	%100
19	M55	X	7.225	7.225	0	%100
20	M55	Z	12.513	12.513	0	%100
21	M56	X	1.806	1.806	0	%100
22	M56	Z	3.128	3.128	0	%100
23	M15	X	5.514	5.514	0	%100
24	M15	Z	9.55	9.55	0	%100
25	M16	X	1.378	1.378	0	%100
26	M16	Z	2.388	2.388	0	%100
27	MP2A	X	4.622	4.622	0	%100
28	MP2A	Z	8.005	8.005	0	%100
29	M48	X	3.345	3.345	0	%100
30	M48	Z	5.793	5.793	0	%100
31	MP4A	X	4.622	4.622	0	%100
32	MP4A	Z	8.005	8.005	0	%100
33	M64	X	3.345	3.345	0	%100
34	M64	Z	5.793	5.793	0	%100
35	MP3A	X	4.622	4.622	0	%100
36	MP3A	Z	8.005	8.005	0	%100
37	M67	X	3.345	3.345	0	%100
38	M67	Z	5.793	5.793	0	%100
39	MP1A	X	4.622	4.622	0	%100
40	MP1A	Z	8.005	8.005	0	%100
41	M70	X	3.345	3.345	0	%100
42	M70	Z	5.793	5.793	0	%100
43	MP2B	X	4.622	4.622	0	%100
44	MP2B	Z	8.005	8.005	0	%100
45	M38	X	9.73	9.73	0	%100
46	M38	Z	16.853	16.853	0	%100
47	MP4B	X	4.622	4.622	0	%100
48	MP4B	Z	8.005	8.005	0	%100
49	M43	X	9.73	9.73	0	%100
50	M43	Z	16.853	16.853	0	%100
51	MP3B	X	4.622	4.622	0	%100
52	MP3B	Z	8.005	8.005	0	%100
53	M48A	X	9.73	9.73	0	%100
54	M48A	Z	16.853	16.853	0	%100
55	MP1B	X	4.622	4.622	0	%100
56	MP1B	Z	8.005	8.005	0	%100
57	M53	X	9.73	9.73	0	%100
58	M53	Z	16.853	16.853	0	%100
59	MP2C	X	4.622	4.622	0	%100
60	MP2C	Z	8.005	8.005	0	%100
61	M58	X	3.345	3.345	0	%100
62	M58	Z	5.793	5.793	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[in,%]	End Location[in,%]
63	MP4C	X	4.622	4.622	0	%100
64	MP4C	Z	8.005	8.005	0	%100
65	M63	X	3.345	3.345	0	%100
66	M63	Z	5.793	5.793	0	%100
67	MP3C	X	4.622	4.622	0	%100
68	MP3C	Z	8.005	8.005	0	%100
69	M68B	X	3.345	3.345	0	%100
70	M68B	Z	5.793	5.793	0	%100
71	MP1C	X	4.622	4.622	0	%100
72	MP1C	Z	8.005	8.005	0	%100
73	M73	X	3.345	3.345	0	%100
74	M73	Z	5.793	5.793	0	%100
75	M80	X	3.466	3.466	0	%100
76	M80	Z	6.004	6.004	0	%100
77	M100	X	7.622	7.622	0	%100
78	M100	Z	13.202	13.202	0	%100
79	M101	X	7.622	7.622	0	%100
80	M101	Z	13.202	13.202	0	%100
81	M102	X	7.622	7.622	0	%100
82	M102	Z	13.202	13.202	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	2.562	2.562	0	%100
86	M110	Z	4.438	4.438	0	%100
87	M111	X	2.562	2.562	0	%100
88	M111	Z	4.438	4.438	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	3.466	3.466	0	%100
92	M102A	Z	6.004	6.004	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	7.298	7.298	0	%100
96	M102B	Z	12.64	12.64	0	%100
97	OVP	X	3.78	3.78	0	%100
98	OVP	Z	6.546	6.546	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	12.308	12.308	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	12.308	12.308	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	19.461	19.461	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
13	M7A	X	0	0	0	%100
14	M7A	Z	19.461	19.461	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	4.865	4.865	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	4.865	4.865	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	10.837	10.837	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	10.837	10.837	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	8.271	8.271	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	8.271	8.271	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	9.244	9.244	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	2.433	2.433	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	9.244	9.244	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	2.433	2.433	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	9.244	9.244	0	%100
37	M67	X	0	0	0	%100
38	M67	Z	2.433	2.433	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	9.244	9.244	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	2.433	2.433	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	9.244	9.244	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	15.204	15.204	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	9.244	9.244	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	15.204	15.204	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	9.244	9.244	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	15.204	15.204	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	9.244	9.244	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	15.204	15.204	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	9.244	9.244	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	15.204	15.204	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	9.244	9.244	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	M63	X	0	0	0	%100
66	M63	Z	15.204	15.204	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	9.244	9.244	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	15.204	15.204	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	9.244	9.244	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	15.204	15.204	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	9.244	9.244	0	%100
77	M100	X	0	0	0	%100
78	M100	Z	15.244	15.244	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	15.244	15.244	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	15.244	15.244	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	1.708	1.708	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	1.708	1.708	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	6.832	6.832	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	2.311	2.311	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	2.311	2.311	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	4.865	4.865	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	4.865	4.865	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	7.559	7.559	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[in,%]	End Location[in,%]
1	M1	X	-1.378	-1.378	0	%100
2	M1	Z	2.388	2.388	0	%100
3	M2	X	-1.806	-1.806	0	%100
4	M2	Z	3.128	3.128	0	%100
5	M5	X	-2.051	-2.051	0	%100
6	M5	Z	3.553	3.553	0	%100
7	M6	X	-2.051	-2.051	0	%100
8	M6	Z	3.553	3.553	0	%100
9	M7	X	-8.205	-8.205	0	%100
10	M7	Z	14.212	14.212	0	%100
11	M6A	X	-7.298	-7.298	0	%100
12	M6A	Z	12.64	12.64	0	%100
13	M7A	X	-7.298	-7.298	0	%100
14	M7A	Z	12.64	12.64	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[in,%]	End Location[in,%]
15	M23A	X	-7.298	-7.298	0	%100
16	M23A	Z	12.64	12.64	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	-1.806	-1.806	0	%100
20	M55	Z	3.128	3.128	0	%100
21	M56	X	-7.225	-7.225	0	%100
22	M56	Z	12.513	12.513	0	%100
23	M15	X	-1.378	-1.378	0	%100
24	M15	Z	2.388	2.388	0	%100
25	M16	X	-5.514	-5.514	0	%100
26	M16	Z	9.55	9.55	0	%100
27	MP2A	X	-4.622	-4.622	0	%100
28	MP2A	Z	8.005	8.005	0	%100
29	M48	X	-3.345	-3.345	0	%100
30	M48	Z	5.793	5.793	0	%100
31	MP4A	X	-4.622	-4.622	0	%100
32	MP4A	Z	8.005	8.005	0	%100
33	M64	X	-3.345	-3.345	0	%100
34	M64	Z	5.793	5.793	0	%100
35	MP3A	X	-4.622	-4.622	0	%100
36	MP3A	Z	8.005	8.005	0	%100
37	M67	X	-3.345	-3.345	0	%100
38	M67	Z	5.793	5.793	0	%100
39	MP1A	X	-4.622	-4.622	0	%100
40	MP1A	Z	8.005	8.005	0	%100
41	M70	X	-3.345	-3.345	0	%100
42	M70	Z	5.793	5.793	0	%100
43	MP2B	X	-4.622	-4.622	0	%100
44	MP2B	Z	8.005	8.005	0	%100
45	M38	X	-3.345	-3.345	0	%100
46	M38	Z	5.793	5.793	0	%100
47	MP4B	X	-4.622	-4.622	0	%100
48	MP4B	Z	8.005	8.005	0	%100
49	M43	X	-3.345	-3.345	0	%100
50	M43	Z	5.793	5.793	0	%100
51	MP3B	X	-4.622	-4.622	0	%100
52	MP3B	Z	8.005	8.005	0	%100
53	M48A	X	-3.345	-3.345	0	%100
54	M48A	Z	5.793	5.793	0	%100
55	MP1B	X	-4.622	-4.622	0	%100
56	MP1B	Z	8.005	8.005	0	%100
57	M53	X	-3.345	-3.345	0	%100
58	M53	Z	5.793	5.793	0	%100
59	MP2C	X	-4.622	-4.622	0	%100
60	MP2C	Z	8.005	8.005	0	%100
61	M58	X	-9.73	-9.73	0	%100
62	M58	Z	16.853	16.853	0	%100
63	MP4C	X	-4.622	-4.622	0	%100
64	MP4C	Z	8.005	8.005	0	%100
65	M63	X	-9.73	-9.73	0	%100
66	M63	Z	16.853	16.853	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[in,%]	End Location[in,%]
67	MP3C	X	-4.622	-4.622	0	%100
68	MP3C	Z	8.005	8.005	0	%100
69	M68B	X	-9.73	-9.73	0	%100
70	M68B	Z	16.853	16.853	0	%100
71	MP1C	X	-4.622	-4.622	0	%100
72	MP1C	Z	8.005	8.005	0	%100
73	M73	X	-9.73	-9.73	0	%100
74	M73	Z	16.853	16.853	0	%100
75	M80	X	-3.466	-3.466	0	%100
76	M80	Z	6.004	6.004	0	%100
77	M100	X	-7.622	-7.622	0	%100
78	M100	Z	13.202	13.202	0	%100
79	M101	X	-7.622	-7.622	0	%100
80	M101	Z	13.202	13.202	0	%100
81	M102	X	-7.622	-7.622	0	%100
82	M102	Z	13.202	13.202	0	%100
83	M109	X	-2.562	-2.562	0	%100
84	M109	Z	4.438	4.438	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	-2.562	-2.562	0	%100
88	M111	Z	4.438	4.438	0	%100
89	M101A	X	-3.466	-3.466	0	%100
90	M101A	Z	6.004	6.004	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-7.298	-7.298	0	%100
94	M101B	Z	12.64	12.64	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-3.78	-3.78	0	%100
98	OVP	Z	6.546	6.546	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[in,%]	End Location[in,%]
1	M1	X	-7.163	-7.163	0	%100
2	M1	Z	4.135	4.135	0	%100
3	M2	X	-9.385	-9.385	0	%100
4	M2	Z	5.418	5.418	0	%100
5	M5	X	-10.659	-10.659	0	%100
6	M5	Z	6.154	6.154	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-10.659	-10.659	0	%100
10	M7	Z	6.154	6.154	0	%100
11	M6A	X	-4.213	-4.213	0	%100
12	M6A	Z	2.433	2.433	0	%100
13	M7A	X	-4.213	-4.213	0	%100
14	M7A	Z	2.433	2.433	0	%100
15	M23A	X	-16.853	-16.853	0	%100
16	M23A	Z	9.73	9.73	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
17	M39A	X	-4.213	-4.213	0	%100
18	M39A	Z	2.433	2.433	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-9.385	-9.385	0	%100
22	M56	Z	5.418	5.418	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-7.163	-7.163	0	%100
26	M16	Z	4.135	4.135	0	%100
27	MP2A	X	-8.005	-8.005	0	%100
28	MP2A	Z	4.622	4.622	0	%100
29	M48	X	-13.167	-13.167	0	%100
30	M48	Z	7.602	7.602	0	%100
31	MP4A	X	-8.005	-8.005	0	%100
32	MP4A	Z	4.622	4.622	0	%100
33	M64	X	-13.167	-13.167	0	%100
34	M64	Z	7.602	7.602	0	%100
35	MP3A	X	-8.005	-8.005	0	%100
36	MP3A	Z	4.622	4.622	0	%100
37	M67	X	-13.167	-13.167	0	%100
38	M67	Z	7.602	7.602	0	%100
39	MP1A	X	-8.005	-8.005	0	%100
40	MP1A	Z	4.622	4.622	0	%100
41	M70	X	-13.167	-13.167	0	%100
42	M70	Z	7.602	7.602	0	%100
43	MP2B	X	-8.005	-8.005	0	%100
44	MP2B	Z	4.622	4.622	0	%100
45	M38	X	-2.107	-2.107	0	%100
46	M38	Z	1.216	1.216	0	%100
47	MP4B	X	-8.005	-8.005	0	%100
48	MP4B	Z	4.622	4.622	0	%100
49	M43	X	-2.107	-2.107	0	%100
50	M43	Z	1.216	1.216	0	%100
51	MP3B	X	-8.005	-8.005	0	%100
52	MP3B	Z	4.622	4.622	0	%100
53	M48A	X	-2.107	-2.107	0	%100
54	M48A	Z	1.216	1.216	0	%100
55	MP1B	X	-8.005	-8.005	0	%100
56	MP1B	Z	4.622	4.622	0	%100
57	M53	X	-2.107	-2.107	0	%100
58	M53	Z	1.216	1.216	0	%100
59	MP2C	X	-8.005	-8.005	0	%100
60	MP2C	Z	4.622	4.622	0	%100
61	M58	X	-13.167	-13.167	0	%100
62	M58	Z	7.602	7.602	0	%100
63	MP4C	X	-8.005	-8.005	0	%100
64	MP4C	Z	4.622	4.622	0	%100
65	M63	X	-13.167	-13.167	0	%100
66	M63	Z	7.602	7.602	0	%100
67	MP3C	X	-8.005	-8.005	0	%100
68	MP3C	Z	4.622	4.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
69	M68B	X	-13.167	-13.167	0	%100
70	M68B	Z	7.602	7.602	0	%100
71	MP1C	X	-8.005	-8.005	0	%100
72	MP1C	Z	4.622	4.622	0	%100
73	M73	X	-13.167	-13.167	0	%100
74	M73	Z	7.602	7.602	0	%100
75	M80	X	-2.001	-2.001	0	%100
76	M80	Z	1.155	1.155	0	%100
77	M100	X	-13.202	-13.202	0	%100
78	M100	Z	7.622	7.622	0	%100
79	M101	X	-13.202	-13.202	0	%100
80	M101	Z	7.622	7.622	0	%100
81	M102	X	-13.202	-13.202	0	%100
82	M102	Z	7.622	7.622	0	%100
83	M109	X	-5.917	-5.917	0	%100
84	M109	Z	3.416	3.416	0	%100
85	M110	X	-1.479	-1.479	0	%100
86	M110	Z	.854	.854	0	%100
87	M111	X	-1.479	-1.479	0	%100
88	M111	Z	.854	.854	0	%100
89	M101A	X	-8.005	-8.005	0	%100
90	M101A	Z	4.622	4.622	0	%100
91	M102A	X	-2.001	-2.001	0	%100
92	M102A	Z	1.155	1.155	0	%100
93	M101B	X	-16.853	-16.853	0	%100
94	M101B	Z	9.73	9.73	0	%100
95	M102B	X	-4.213	-4.213	0	%100
96	M102B	Z	2.433	2.433	0	%100
97	OVP	X	-6.546	-6.546	0	%100
98	OVP	Z	3.78	3.78	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-11.028	-11.028	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-14.449	-14.449	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-16.411	-16.411	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.103	-4.103	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-4.103	-4.103	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-14.595	-14.595	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-14.595	-14.595	0	%100
18	M39A	Z	0	0	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[in,%]	End Location[in,%]
19	M55	X	-3.612	-3.612	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-3.612	-3.612	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-2.757	-2.757	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-2.757	-2.757	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-9.244	-9.244	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	-19.461	-19.461	0	%100
30	M48	Z	0	0	0	%100
31	MP4A	X	-9.244	-9.244	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	-19.461	-19.461	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	-9.244	-9.244	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	-19.461	-19.461	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	-9.244	-9.244	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	-19.461	-19.461	0	%100
42	M70	Z	0	0	0	%100
43	MP2B	X	-9.244	-9.244	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	-6.69	-6.69	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	-9.244	-9.244	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	-6.69	-6.69	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	-9.244	-9.244	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	-6.69	-6.69	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	-9.244	-9.244	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	-6.69	-6.69	0	%100
58	M53	Z	0	0	0	%100
59	MP2C	X	-9.244	-9.244	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	-6.69	-6.69	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	-9.244	-9.244	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	-6.69	-6.69	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	-9.244	-9.244	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	-6.69	-6.69	0	%100
70	M68B	Z	0	0	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[in,%]	End Location[in,%]
71	MP1C	X	-9.244	-9.244	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	-6.69	-6.69	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	-15.244	-15.244	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	-15.244	-15.244	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	-15.244	-15.244	0	%100
82	M102	Z	0	0	0	%100
83	M109	X	-5.124	-5.124	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-5.124	-5.124	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	-6.933	-6.933	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-6.933	-6.933	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-14.595	-14.595	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	-14.595	-14.595	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-7.559	-7.559	0	%100
98	OVP	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[in,%]	End Location[in,%]
1	M1	X	-7.163	-7.163	0	%100
2	M1	Z	-4.135	-4.135	0	%100
3	M2	X	-9.385	-9.385	0	%100
4	M2	Z	-5.418	-5.418	0	%100
5	M5	X	-10.659	-10.659	0	%100
6	M5	Z	-6.154	-6.154	0	%100
7	M6	X	-10.659	-10.659	0	%100
8	M6	Z	-6.154	-6.154	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-4.213	-4.213	0	%100
12	M6A	Z	-2.433	-2.433	0	%100
13	M7A	X	-4.213	-4.213	0	%100
14	M7A	Z	-2.433	-2.433	0	%100
15	M23A	X	-4.213	-4.213	0	%100
16	M23A	Z	-2.433	-2.433	0	%100
17	M39A	X	-16.853	-16.853	0	%100
18	M39A	Z	-9.73	-9.73	0	%100
19	M55	X	-9.385	-9.385	0	%100
20	M55	Z	-5.418	-5.418	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-7.163	-7.163	0	%100
24	M15	Z	-4.135	-4.135	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-8.005	-8.005	0	%100
28	MP2A	Z	-4.622	-4.622	0	%100
29	M48	X	-13.167	-13.167	0	%100
30	M48	Z	-7.602	-7.602	0	%100
31	MP4A	X	-8.005	-8.005	0	%100
32	MP4A	Z	-4.622	-4.622	0	%100
33	M64	X	-13.167	-13.167	0	%100
34	M64	Z	-7.602	-7.602	0	%100
35	MP3A	X	-8.005	-8.005	0	%100
36	MP3A	Z	-4.622	-4.622	0	%100
37	M67	X	-13.167	-13.167	0	%100
38	M67	Z	-7.602	-7.602	0	%100
39	MP1A	X	-8.005	-8.005	0	%100
40	MP1A	Z	-4.622	-4.622	0	%100
41	M70	X	-13.167	-13.167	0	%100
42	M70	Z	-7.602	-7.602	0	%100
43	MP2B	X	-8.005	-8.005	0	%100
44	MP2B	Z	-4.622	-4.622	0	%100
45	M38	X	-13.167	-13.167	0	%100
46	M38	Z	-7.602	-7.602	0	%100
47	MP4B	X	-8.005	-8.005	0	%100
48	MP4B	Z	-4.622	-4.622	0	%100
49	M43	X	-13.167	-13.167	0	%100
50	M43	Z	-7.602	-7.602	0	%100
51	MP3B	X	-8.005	-8.005	0	%100
52	MP3B	Z	-4.622	-4.622	0	%100
53	M48A	X	-13.167	-13.167	0	%100
54	M48A	Z	-7.602	-7.602	0	%100
55	MP1B	X	-8.005	-8.005	0	%100
56	MP1B	Z	-4.622	-4.622	0	%100
57	M53	X	-13.167	-13.167	0	%100
58	M53	Z	-7.602	-7.602	0	%100
59	MP2C	X	-8.005	-8.005	0	%100
60	MP2C	Z	-4.622	-4.622	0	%100
61	M58	X	-2.107	-2.107	0	%100
62	M58	Z	-1.216	-1.216	0	%100
63	MP4C	X	-8.005	-8.005	0	%100
64	MP4C	Z	-4.622	-4.622	0	%100
65	M63	X	-2.107	-2.107	0	%100
66	M63	Z	-1.216	-1.216	0	%100
67	MP3C	X	-8.005	-8.005	0	%100
68	MP3C	Z	-4.622	-4.622	0	%100
69	M68B	X	-2.107	-2.107	0	%100
70	M68B	Z	-1.216	-1.216	0	%100
71	MP1C	X	-8.005	-8.005	0	%100
72	MP1C	Z	-4.622	-4.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
73	M73	X	-2.107	-2.107	0	%100
74	M73	Z	-1.216	-1.216	0	%100
75	M80	X	-2.001	-2.001	0	%100
76	M80	Z	-1.155	-1.155	0	%100
77	M100	X	-13.202	-13.202	0	%100
78	M100	Z	-7.622	-7.622	0	%100
79	M101	X	-13.202	-13.202	0	%100
80	M101	Z	-7.622	-7.622	0	%100
81	M102	X	-13.202	-13.202	0	%100
82	M102	Z	-7.622	-7.622	0	%100
83	M109	X	-1.479	-1.479	0	%100
84	M109	Z	-.854	-.854	0	%100
85	M110	X	-5.917	-5.917	0	%100
86	M110	Z	-3.416	-3.416	0	%100
87	M111	X	-1.479	-1.479	0	%100
88	M111	Z	-.854	-.854	0	%100
89	M101A	X	-2.001	-2.001	0	%100
90	M101A	Z	-1.155	-1.155	0	%100
91	M102A	X	-8.005	-8.005	0	%100
92	M102A	Z	-4.622	-4.622	0	%100
93	M101B	X	-4.213	-4.213	0	%100
94	M101B	Z	-2.433	-2.433	0	%100
95	M102B	X	-16.853	-16.853	0	%100
96	M102B	Z	-9.73	-9.73	0	%100
97	OVP	X	-6.546	-6.546	0	%100
98	OVP	Z	-3.78	-3.78	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.378	-1.378	0	%100
2	M1	Z	-2.388	-2.388	0	%100
3	M2	X	-1.806	-1.806	0	%100
4	M2	Z	-3.128	-3.128	0	%100
5	M5	X	-2.051	-2.051	0	%100
6	M5	Z	-3.553	-3.553	0	%100
7	M6	X	-8.205	-8.205	0	%100
8	M6	Z	-14.212	-14.212	0	%100
9	M7	X	-2.051	-2.051	0	%100
10	M7	Z	-3.553	-3.553	0	%100
11	M6A	X	-7.298	-7.298	0	%100
12	M6A	Z	-12.64	-12.64	0	%100
13	M7A	X	-7.298	-7.298	0	%100
14	M7A	Z	-12.64	-12.64	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-7.298	-7.298	0	%100
18	M39A	Z	-12.64	-12.64	0	%100
19	M55	X	-7.225	-7.225	0	%100
20	M55	Z	-12.513	-12.513	0	%100
21	M56	X	-1.806	-1.806	0	%100
22	M56	Z	-3.128	-3.128	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
23	M15	X	-5.514	-5.514	0	%100
24	M15	Z	-9.55	-9.55	0	%100
25	M16	X	-1.378	-1.378	0	%100
26	M16	Z	-2.388	-2.388	0	%100
27	MP2A	X	-4.622	-4.622	0	%100
28	MP2A	Z	-8.005	-8.005	0	%100
29	M48	X	-3.345	-3.345	0	%100
30	M48	Z	-5.793	-5.793	0	%100
31	MP4A	X	-4.622	-4.622	0	%100
32	MP4A	Z	-8.005	-8.005	0	%100
33	M64	X	-3.345	-3.345	0	%100
34	M64	Z	-5.793	-5.793	0	%100
35	MP3A	X	-4.622	-4.622	0	%100
36	MP3A	Z	-8.005	-8.005	0	%100
37	M67	X	-3.345	-3.345	0	%100
38	M67	Z	-5.793	-5.793	0	%100
39	MP1A	X	-4.622	-4.622	0	%100
40	MP1A	Z	-8.005	-8.005	0	%100
41	M70	X	-3.345	-3.345	0	%100
42	M70	Z	-5.793	-5.793	0	%100
43	MP2B	X	-4.622	-4.622	0	%100
44	MP2B	Z	-8.005	-8.005	0	%100
45	M38	X	-9.73	-9.73	0	%100
46	M38	Z	-16.853	-16.853	0	%100
47	MP4B	X	-4.622	-4.622	0	%100
48	MP4B	Z	-8.005	-8.005	0	%100
49	M43	X	-9.73	-9.73	0	%100
50	M43	Z	-16.853	-16.853	0	%100
51	MP3B	X	-4.622	-4.622	0	%100
52	MP3B	Z	-8.005	-8.005	0	%100
53	M48A	X	-9.73	-9.73	0	%100
54	M48A	Z	-16.853	-16.853	0	%100
55	MP1B	X	-4.622	-4.622	0	%100
56	MP1B	Z	-8.005	-8.005	0	%100
57	M53	X	-9.73	-9.73	0	%100
58	M53	Z	-16.853	-16.853	0	%100
59	MP2C	X	-4.622	-4.622	0	%100
60	MP2C	Z	-8.005	-8.005	0	%100
61	M58	X	-3.345	-3.345	0	%100
62	M58	Z	-5.793	-5.793	0	%100
63	MP4C	X	-4.622	-4.622	0	%100
64	MP4C	Z	-8.005	-8.005	0	%100
65	M63	X	-3.345	-3.345	0	%100
66	M63	Z	-5.793	-5.793	0	%100
67	MP3C	X	-4.622	-4.622	0	%100
68	MP3C	Z	-8.005	-8.005	0	%100
69	M68B	X	-3.345	-3.345	0	%100
70	M68B	Z	-5.793	-5.793	0	%100
71	MP1C	X	-4.622	-4.622	0	%100
72	MP1C	Z	-8.005	-8.005	0	%100
73	M73	X	-3.345	-3.345	0	%100
74	M73	Z	-5.793	-5.793	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
75	M80	X	-3.466	-3.466	0	%100
76	M80	Z	-6.004	-6.004	0	%100
77	M100	X	-7.622	-7.622	0	%100
78	M100	Z	-13.202	-13.202	0	%100
79	M101	X	-7.622	-7.622	0	%100
80	M101	Z	-13.202	-13.202	0	%100
81	M102	X	-7.622	-7.622	0	%100
82	M102	Z	-13.202	-13.202	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-2.562	-2.562	0	%100
86	M110	Z	-4.438	-4.438	0	%100
87	M111	X	-2.562	-2.562	0	%100
88	M111	Z	-4.438	-4.438	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-3.466	-3.466	0	%100
92	M102A	Z	-6.004	-6.004	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	-7.298	-7.298	0	%100
96	M102B	Z	-12.64	-12.64	0	%100
97	OVP	X	-3.78	-3.78	0	%100
98	OVP	Z	-6.546	-6.546	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.682	-3.682	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.682	-3.682	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-5.967	-5.967	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-5.967	-5.967	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-1.492	-1.492	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-1.492	-1.492	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	-3.182	-3.182	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	-3.182	-3.182	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-2.577	-2.577	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[in,%]	End Location[in,%]
25	M16	X	0	0	0	%100
26	M16	Z	-2.577	-2.577	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-4.09	-4.09	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	-1.872	-1.872	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-4.09	-4.09	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	-1.872	-1.872	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-4.09	-4.09	0	%100
37	M67	X	0	0	0	%100
38	M67	Z	-1.872	-1.872	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-4.09	-4.09	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	-1.872	-1.872	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	-4.09	-4.09	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	-4.204	-4.204	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-4.09	-4.09	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-4.204	-4.204	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-4.09	-4.09	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	-4.204	-4.204	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	-4.09	-4.09	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-4.204	-4.204	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-4.09	-4.09	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-4.204	-4.204	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	-4.09	-4.09	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-4.204	-4.204	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	-4.09	-4.09	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	-4.204	-4.204	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	-4.09	-4.09	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-4.204	-4.204	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	-4.101	-4.101	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[in,%]	End Location[in,%]
77	M100	X	0	0	0	%100
78	M100	Z	-4.554	-4.554	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	-4.554	-4.554	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	-4.554	-4.554	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	-.721	-.721	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	-.721	-.721	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	-2.885	-2.885	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	-1.025	-1.025	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	-1.025	-1.025	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	-1.492	-1.492	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	-1.492	-1.492	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	-3.15	-3.15	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[in,%]	End Location[in,%]
1	M1	X	.43	.43	0	%100
2	M1	Z	-.744	-.744	0	%100
3	M2	X	.53	.53	0	%100
4	M2	Z	-.919	-.919	0	%100
5	M5	X	.614	.614	0	%100
6	M5	Z	-1.063	-1.063	0	%100
7	M6	X	.614	.614	0	%100
8	M6	Z	-1.063	-1.063	0	%100
9	M7	X	2.454	2.454	0	%100
10	M7	Z	-4.251	-4.251	0	%100
11	M6A	X	2.238	2.238	0	%100
12	M6A	Z	-3.876	-3.876	0	%100
13	M7A	X	2.238	2.238	0	%100
14	M7A	Z	-3.876	-3.876	0	%100
15	M23A	X	2.238	2.238	0	%100
16	M23A	Z	-3.876	-3.876	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	.53	.53	0	%100
20	M55	Z	-.919	-.919	0	%100
21	M56	X	2.121	2.121	0	%100
22	M56	Z	-3.674	-3.674	0	%100
23	M15	X	.43	.43	0	%100
24	M15	Z	-.744	-.744	0	%100
25	M16	X	1.718	1.718	0	%100
26	M16	Z	-2.976	-2.976	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
27	MP2A	X	2.045	2.045	0	%100
28	MP2A	Z	-3.542	-3.542	0	%100
29	M48	X	1.325	1.325	0	%100
30	M48	Z	-2.294	-2.294	0	%100
31	MP4A	X	2.045	2.045	0	%100
32	MP4A	Z	-3.542	-3.542	0	%100
33	M64	X	1.325	1.325	0	%100
34	M64	Z	-2.294	-2.294	0	%100
35	MP3A	X	2.045	2.045	0	%100
36	MP3A	Z	-3.542	-3.542	0	%100
37	M67	X	1.325	1.325	0	%100
38	M67	Z	-2.294	-2.294	0	%100
39	MP1A	X	2.045	2.045	0	%100
40	MP1A	Z	-3.542	-3.542	0	%100
41	M70	X	1.325	1.325	0	%100
42	M70	Z	-2.294	-2.294	0	%100
43	MP2B	X	2.045	2.045	0	%100
44	MP2B	Z	-3.542	-3.542	0	%100
45	M38	X	1.325	1.325	0	%100
46	M38	Z	-2.294	-2.294	0	%100
47	MP4B	X	2.045	2.045	0	%100
48	MP4B	Z	-3.542	-3.542	0	%100
49	M43	X	1.325	1.325	0	%100
50	M43	Z	-2.294	-2.294	0	%100
51	MP3B	X	2.045	2.045	0	%100
52	MP3B	Z	-3.542	-3.542	0	%100
53	M48A	X	1.325	1.325	0	%100
54	M48A	Z	-2.294	-2.294	0	%100
55	MP1B	X	2.045	2.045	0	%100
56	MP1B	Z	-3.542	-3.542	0	%100
57	M53	X	1.325	1.325	0	%100
58	M53	Z	-2.294	-2.294	0	%100
59	MP2C	X	2.045	2.045	0	%100
60	MP2C	Z	-3.542	-3.542	0	%100
61	M58	X	2.491	2.491	0	%100
62	M58	Z	-4.314	-4.314	0	%100
63	MP4C	X	2.045	2.045	0	%100
64	MP4C	Z	-3.542	-3.542	0	%100
65	M63	X	2.491	2.491	0	%100
66	M63	Z	-4.314	-4.314	0	%100
67	MP3C	X	2.045	2.045	0	%100
68	MP3C	Z	-3.542	-3.542	0	%100
69	M68B	X	2.491	2.491	0	%100
70	M68B	Z	-4.314	-4.314	0	%100
71	MP1C	X	2.045	2.045	0	%100
72	MP1C	Z	-3.542	-3.542	0	%100
73	M73	X	2.491	2.491	0	%100
74	M73	Z	-4.314	-4.314	0	%100
75	M80	X	1.538	1.538	0	%100
76	M80	Z	-2.664	-2.664	0	%100
77	M100	X	2.277	2.277	0	%100
78	M100	Z	-3.944	-3.944	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
79	M101	X	2.277	2.277	0	%100
80	M101	Z	-3.944	-3.944	0	%100
81	M102	X	2.277	2.277	0	%100
82	M102	Z	-3.944	-3.944	0	%100
83	M109	X	1.082	1.082	0	%100
84	M109	Z	-1.874	-1.874	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	1.082	1.082	0	%100
88	M111	Z	-1.874	-1.874	0	%100
89	M101A	X	1.538	1.538	0	%100
90	M101A	Z	-2.664	-2.664	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	2.238	2.238	0	%100
94	M101B	Z	-3.876	-3.876	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	1.575	1.575	0	%100
98	OVP	Z	-2.728	-2.728	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.232	2.232	0	%100
2	M1	Z	-1.289	-1.289	0	%100
3	M2	X	2.756	2.756	0	%100
4	M2	Z	-1.591	-1.591	0	%100
5	M5	X	3.188	3.188	0	%100
6	M5	Z	-1.841	-1.841	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	3.188	3.188	0	%100
10	M7	Z	-1.841	-1.841	0	%100
11	M6A	X	1.292	1.292	0	%100
12	M6A	Z	-.746	-.746	0	%100
13	M7A	X	1.292	1.292	0	%100
14	M7A	Z	-.746	-.746	0	%100
15	M23A	X	5.167	5.167	0	%100
16	M23A	Z	-2.983	-2.983	0	%100
17	M39A	X	1.292	1.292	0	%100
18	M39A	Z	-.746	-.746	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	2.756	2.756	0	%100
22	M56	Z	-1.591	-1.591	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	2.232	2.232	0	%100
26	M16	Z	-1.289	-1.289	0	%100
27	MP2A	X	3.542	3.542	0	%100
28	MP2A	Z	-2.045	-2.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
29	M48	X	3.641	3.641	0	%100
30	M48	Z	-2.102	-2.102	0	%100
31	MP4A	X	3.542	3.542	0	%100
32	MP4A	Z	-2.045	-2.045	0	%100
33	M64	X	3.641	3.641	0	%100
34	M64	Z	-2.102	-2.102	0	%100
35	MP3A	X	3.542	3.542	0	%100
36	MP3A	Z	-2.045	-2.045	0	%100
37	M67	X	3.641	3.641	0	%100
38	M67	Z	-2.102	-2.102	0	%100
39	MP1A	X	3.542	3.542	0	%100
40	MP1A	Z	-2.045	-2.045	0	%100
41	M70	X	3.641	3.641	0	%100
42	M70	Z	-2.102	-2.102	0	%100
43	MP2B	X	3.542	3.542	0	%100
44	MP2B	Z	-2.045	-2.045	0	%100
45	M38	X	1.621	1.621	0	%100
46	M38	Z	-.936	-.936	0	%100
47	MP4B	X	3.542	3.542	0	%100
48	MP4B	Z	-2.045	-2.045	0	%100
49	M43	X	1.621	1.621	0	%100
50	M43	Z	-.936	-.936	0	%100
51	MP3B	X	3.542	3.542	0	%100
52	MP3B	Z	-2.045	-2.045	0	%100
53	M48A	X	1.621	1.621	0	%100
54	M48A	Z	-.936	-.936	0	%100
55	MP1B	X	3.542	3.542	0	%100
56	MP1B	Z	-2.045	-2.045	0	%100
57	M53	X	1.621	1.621	0	%100
58	M53	Z	-.936	-.936	0	%100
59	MP2C	X	3.542	3.542	0	%100
60	MP2C	Z	-2.045	-2.045	0	%100
61	M58	X	3.641	3.641	0	%100
62	M58	Z	-2.102	-2.102	0	%100
63	MP4C	X	3.542	3.542	0	%100
64	MP4C	Z	-2.045	-2.045	0	%100
65	M63	X	3.641	3.641	0	%100
66	M63	Z	-2.102	-2.102	0	%100
67	MP3C	X	3.542	3.542	0	%100
68	MP3C	Z	-2.045	-2.045	0	%100
69	M68B	X	3.641	3.641	0	%100
70	M68B	Z	-2.102	-2.102	0	%100
71	MP1C	X	3.542	3.542	0	%100
72	MP1C	Z	-2.045	-2.045	0	%100
73	M73	X	3.641	3.641	0	%100
74	M73	Z	-2.102	-2.102	0	%100
75	M80	X	.888	.888	0	%100
76	M80	Z	-.513	-.513	0	%100
77	M100	X	3.944	3.944	0	%100
78	M100	Z	-2.277	-2.277	0	%100
79	M101	X	3.944	3.944	0	%100
80	M101	Z	-2.277	-2.277	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
81	M102	X	3.944	3.944	0	%100
82	M102	Z	-2.277	-2.277	0	%100
83	M109	X	2.498	2.498	0	%100
84	M109	Z	-1.442	-1.442	0	%100
85	M110	X	.625	.625	0	%100
86	M110	Z	-.361	-.361	0	%100
87	M111	X	.625	.625	0	%100
88	M111	Z	-.361	-.361	0	%100
89	M101A	X	3.552	3.552	0	%100
90	M101A	Z	-2.05	-2.05	0	%100
91	M102A	X	.888	.888	0	%100
92	M102A	Z	-.513	-.513	0	%100
93	M101B	X	5.167	5.167	0	%100
94	M101B	Z	-2.983	-2.983	0	%100
95	M102B	X	1.292	1.292	0	%100
96	M102B	Z	-.746	-.746	0	%100
97	OVP	X	2.728	2.728	0	%100
98	OVP	Z	-1.575	-1.575	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[in,%]	End Location[in,%]
1	M1	X	3.436	3.436	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	4.243	4.243	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	4.909	4.909	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.227	1.227	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.227	1.227	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	4.475	4.475	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	4.475	4.475	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	1.061	1.061	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	1.061	1.061	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	.859	.859	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	.859	.859	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	4.09	4.09	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	4.981	4.981	0	%100
30	M48	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
31	MP4A	X	4.09	4.09	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	4.981	4.981	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	4.09	4.09	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	4.981	4.981	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	4.09	4.09	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	4.981	4.981	0	%100
42	M70	Z	0	0	0	%100
43	MP2B	X	4.09	4.09	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	2.649	2.649	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	4.09	4.09	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	2.649	2.649	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	4.09	4.09	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	2.649	2.649	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	4.09	4.09	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	2.649	2.649	0	%100
58	M53	Z	0	0	0	%100
59	MP2C	X	4.09	4.09	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	2.649	2.649	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	4.09	4.09	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	2.649	2.649	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	4.09	4.09	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	2.649	2.649	0	%100
70	M68B	Z	0	0	0	%100
71	MP1C	X	4.09	4.09	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	2.649	2.649	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	4.554	4.554	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	4.554	4.554	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	4.554	4.554	0	%100
82	M102	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
83	M109	X	2.163	2.163	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	2.163	2.163	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	3.076	3.076	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	3.076	3.076	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	4.475	4.475	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	4.475	4.475	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	3.15	3.15	0	%100
98	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.232	2.232	0	%100
2	M1	Z	1.289	1.289	0	%100
3	M2	X	2.756	2.756	0	%100
4	M2	Z	1.591	1.591	0	%100
5	M5	X	3.188	3.188	0	%100
6	M5	Z	1.841	1.841	0	%100
7	M6	X	3.188	3.188	0	%100
8	M6	Z	1.841	1.841	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	1.292	1.292	0	%100
12	M6A	Z	.746	.746	0	%100
13	M7A	X	1.292	1.292	0	%100
14	M7A	Z	.746	.746	0	%100
15	M23A	X	1.292	1.292	0	%100
16	M23A	Z	.746	.746	0	%100
17	M39A	X	5.167	5.167	0	%100
18	M39A	Z	2.983	2.983	0	%100
19	M55	X	2.756	2.756	0	%100
20	M55	Z	1.591	1.591	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	2.232	2.232	0	%100
24	M15	Z	1.289	1.289	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	3.542	3.542	0	%100
28	MP2A	Z	2.045	2.045	0	%100
29	M48	X	3.641	3.641	0	%100
30	M48	Z	2.102	2.102	0	%100
31	MP4A	X	3.542	3.542	0	%100
32	MP4A	Z	2.045	2.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
33	M64	X	3.641	3.641	0	%100
34	M64	Z	2.102	2.102	0	%100
35	MP3A	X	3.542	3.542	0	%100
36	MP3A	Z	2.045	2.045	0	%100
37	M67	X	3.641	3.641	0	%100
38	M67	Z	2.102	2.102	0	%100
39	MP1A	X	3.542	3.542	0	%100
40	MP1A	Z	2.045	2.045	0	%100
41	M70	X	3.641	3.641	0	%100
42	M70	Z	2.102	2.102	0	%100
43	MP2B	X	3.542	3.542	0	%100
44	MP2B	Z	2.045	2.045	0	%100
45	M38	X	3.641	3.641	0	%100
46	M38	Z	2.102	2.102	0	%100
47	MP4B	X	3.542	3.542	0	%100
48	MP4B	Z	2.045	2.045	0	%100
49	M43	X	3.641	3.641	0	%100
50	M43	Z	2.102	2.102	0	%100
51	MP3B	X	3.542	3.542	0	%100
52	MP3B	Z	2.045	2.045	0	%100
53	M48A	X	3.641	3.641	0	%100
54	M48A	Z	2.102	2.102	0	%100
55	MP1B	X	3.542	3.542	0	%100
56	MP1B	Z	2.045	2.045	0	%100
57	M53	X	3.641	3.641	0	%100
58	M53	Z	2.102	2.102	0	%100
59	MP2C	X	3.542	3.542	0	%100
60	MP2C	Z	2.045	2.045	0	%100
61	M58	X	1.621	1.621	0	%100
62	M58	Z	.936	.936	0	%100
63	MP4C	X	3.542	3.542	0	%100
64	MP4C	Z	2.045	2.045	0	%100
65	M63	X	1.621	1.621	0	%100
66	M63	Z	.936	.936	0	%100
67	MP3C	X	3.542	3.542	0	%100
68	MP3C	Z	2.045	2.045	0	%100
69	M68B	X	1.621	1.621	0	%100
70	M68B	Z	.936	.936	0	%100
71	MP1C	X	3.542	3.542	0	%100
72	MP1C	Z	2.045	2.045	0	%100
73	M73	X	1.621	1.621	0	%100
74	M73	Z	.936	.936	0	%100
75	M80	X	.888	.888	0	%100
76	M80	Z	.513	.513	0	%100
77	M100	X	3.944	3.944	0	%100
78	M100	Z	2.277	2.277	0	%100
79	M101	X	3.944	3.944	0	%100
80	M101	Z	2.277	2.277	0	%100
81	M102	X	3.944	3.944	0	%100
82	M102	Z	2.277	2.277	0	%100
83	M109	X	.625	.625	0	%100
84	M109	Z	.361	.361	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
85	M110	X	2.498	2.498	0	%100
86	M110	Z	1.442	1.442	0	%100
87	M111	X	.625	.625	0	%100
88	M111	Z	.361	.361	0	%100
89	M101A	X	.888	.888	0	%100
90	M101A	Z	.513	.513	0	%100
91	M102A	X	3.552	3.552	0	%100
92	M102A	Z	2.05	2.05	0	%100
93	M101B	X	1.292	1.292	0	%100
94	M101B	Z	.746	.746	0	%100
95	M102B	X	5.167	5.167	0	%100
96	M102B	Z	2.983	2.983	0	%100
97	OVP	X	2.728	2.728	0	%100
98	OVP	Z	1.575	1.575	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[in,%]	End Location[in,%]
1	M1	X	.43	.43	0	%100
2	M1	Z	.744	.744	0	%100
3	M2	X	.53	.53	0	%100
4	M2	Z	.919	.919	0	%100
5	M5	X	.614	.614	0	%100
6	M5	Z	1.063	1.063	0	%100
7	M6	X	2.454	2.454	0	%100
8	M6	Z	4.251	4.251	0	%100
9	M7	X	.614	.614	0	%100
10	M7	Z	1.063	1.063	0	%100
11	M6A	X	2.238	2.238	0	%100
12	M6A	Z	3.876	3.876	0	%100
13	M7A	X	2.238	2.238	0	%100
14	M7A	Z	3.876	3.876	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	2.238	2.238	0	%100
18	M39A	Z	3.876	3.876	0	%100
19	M55	X	2.121	2.121	0	%100
20	M55	Z	3.674	3.674	0	%100
21	M56	X	.53	.53	0	%100
22	M56	Z	.919	.919	0	%100
23	M15	X	1.718	1.718	0	%100
24	M15	Z	2.976	2.976	0	%100
25	M16	X	.43	.43	0	%100
26	M16	Z	.744	.744	0	%100
27	MP2A	X	2.045	2.045	0	%100
28	MP2A	Z	3.542	3.542	0	%100
29	M48	X	1.325	1.325	0	%100
30	M48	Z	2.294	2.294	0	%100
31	MP4A	X	2.045	2.045	0	%100
32	MP4A	Z	3.542	3.542	0	%100
33	M64	X	1.325	1.325	0	%100
34	M64	Z	2.294	2.294	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
35	MP3A	X	2.045	2.045	0	%100
36	MP3A	Z	3.542	3.542	0	%100
37	M67	X	1.325	1.325	0	%100
38	M67	Z	2.294	2.294	0	%100
39	MP1A	X	2.045	2.045	0	%100
40	MP1A	Z	3.542	3.542	0	%100
41	M70	X	1.325	1.325	0	%100
42	M70	Z	2.294	2.294	0	%100
43	MP2B	X	2.045	2.045	0	%100
44	MP2B	Z	3.542	3.542	0	%100
45	M38	X	2.491	2.491	0	%100
46	M38	Z	4.314	4.314	0	%100
47	MP4B	X	2.045	2.045	0	%100
48	MP4B	Z	3.542	3.542	0	%100
49	M43	X	2.491	2.491	0	%100
50	M43	Z	4.314	4.314	0	%100
51	MP3B	X	2.045	2.045	0	%100
52	MP3B	Z	3.542	3.542	0	%100
53	M48A	X	2.491	2.491	0	%100
54	M48A	Z	4.314	4.314	0	%100
55	MP1B	X	2.045	2.045	0	%100
56	MP1B	Z	3.542	3.542	0	%100
57	M53	X	2.491	2.491	0	%100
58	M53	Z	4.314	4.314	0	%100
59	MP2C	X	2.045	2.045	0	%100
60	MP2C	Z	3.542	3.542	0	%100
61	M58	X	1.325	1.325	0	%100
62	M58	Z	2.294	2.294	0	%100
63	MP4C	X	2.045	2.045	0	%100
64	MP4C	Z	3.542	3.542	0	%100
65	M63	X	1.325	1.325	0	%100
66	M63	Z	2.294	2.294	0	%100
67	MP3C	X	2.045	2.045	0	%100
68	MP3C	Z	3.542	3.542	0	%100
69	M68B	X	1.325	1.325	0	%100
70	M68B	Z	2.294	2.294	0	%100
71	MP1C	X	2.045	2.045	0	%100
72	MP1C	Z	3.542	3.542	0	%100
73	M73	X	1.325	1.325	0	%100
74	M73	Z	2.294	2.294	0	%100
75	M80	X	1.538	1.538	0	%100
76	M80	Z	2.664	2.664	0	%100
77	M100	X	2.277	2.277	0	%100
78	M100	Z	3.944	3.944	0	%100
79	M101	X	2.277	2.277	0	%100
80	M101	Z	3.944	3.944	0	%100
81	M102	X	2.277	2.277	0	%100
82	M102	Z	3.944	3.944	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	1.082	1.082	0	%100
86	M110	Z	1.874	1.874	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
87	M111	X	1.082	1.082	0	%100
88	M111	Z	1.874	1.874	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	1.538	1.538	0	%100
92	M102A	Z	2.664	2.664	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	2.238	2.238	0	%100
96	M102B	Z	3.876	3.876	0	%100
97	OVP	X	1.575	1.575	0	%100
98	OVP	Z	2.728	2.728	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.682	3.682	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.682	3.682	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	5.967	5.967	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	5.967	5.967	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	1.492	1.492	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	1.492	1.492	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	3.182	3.182	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	3.182	3.182	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	2.577	2.577	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	2.577	2.577	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	4.09	4.09	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	1.872	1.872	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	4.09	4.09	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	1.872	1.872	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	4.09	4.09	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[in,%]	End Location[in,%]
37	M67	X	0	0	0	%100
38	M67	Z	1.872	1.872	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	4.09	4.09	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	1.872	1.872	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	4.09	4.09	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	4.204	4.204	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	4.09	4.09	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	4.204	4.204	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	4.09	4.09	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	4.204	4.204	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	4.09	4.09	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	4.204	4.204	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	4.09	4.09	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	4.204	4.204	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	4.09	4.09	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	4.204	4.204	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	4.09	4.09	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	4.204	4.204	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	4.09	4.09	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	4.204	4.204	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	4.101	4.101	0	%100
77	M100	X	0	0	0	%100
78	M100	Z	4.554	4.554	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	4.554	4.554	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	4.554	4.554	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	.721	.721	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	.721	.721	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	2.885	2.885	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[in,%]	End Location[in,%]
89	M101A	X	0	0	0	%100
90	M101A	Z	1.025	1.025	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	1.025	1.025	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	1.492	1.492	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	1.492	1.492	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	3.15	3.15	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[in,%]	End Location[in,%]
1	M1	X	-.43	-.43	0	%100
2	M1	Z	.744	.744	0	%100
3	M2	X	-.53	-.53	0	%100
4	M2	Z	.919	.919	0	%100
5	M5	X	-.614	-.614	0	%100
6	M5	Z	1.063	1.063	0	%100
7	M6	X	-.614	-.614	0	%100
8	M6	Z	1.063	1.063	0	%100
9	M7	X	-2.454	-2.454	0	%100
10	M7	Z	4.251	4.251	0	%100
11	M6A	X	-2.238	-2.238	0	%100
12	M6A	Z	3.876	3.876	0	%100
13	M7A	X	-2.238	-2.238	0	%100
14	M7A	Z	3.876	3.876	0	%100
15	M23A	X	-2.238	-2.238	0	%100
16	M23A	Z	3.876	3.876	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	-.53	-.53	0	%100
20	M55	Z	.919	.919	0	%100
21	M56	X	-2.121	-2.121	0	%100
22	M56	Z	3.674	3.674	0	%100
23	M15	X	-.43	-.43	0	%100
24	M15	Z	.744	.744	0	%100
25	M16	X	-1.718	-1.718	0	%100
26	M16	Z	2.976	2.976	0	%100
27	MP2A	X	-2.045	-2.045	0	%100
28	MP2A	Z	3.542	3.542	0	%100
29	M48	X	-1.325	-1.325	0	%100
30	M48	Z	2.294	2.294	0	%100
31	MP4A	X	-2.045	-2.045	0	%100
32	MP4A	Z	3.542	3.542	0	%100
33	M64	X	-1.325	-1.325	0	%100
34	M64	Z	2.294	2.294	0	%100
35	MP3A	X	-2.045	-2.045	0	%100
36	MP3A	Z	3.542	3.542	0	%100
37	M67	X	-1.325	-1.325	0	%100
38	M67	Z	2.294	2.294	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[in,%]	End Location[in,%]
39	MP1A	X	-2.045	-2.045	0	%100
40	MP1A	Z	3.542	3.542	0	%100
41	M70	X	-1.325	-1.325	0	%100
42	M70	Z	2.294	2.294	0	%100
43	MP2B	X	-2.045	-2.045	0	%100
44	MP2B	Z	3.542	3.542	0	%100
45	M38	X	-1.325	-1.325	0	%100
46	M38	Z	2.294	2.294	0	%100
47	MP4B	X	-2.045	-2.045	0	%100
48	MP4B	Z	3.542	3.542	0	%100
49	M43	X	-1.325	-1.325	0	%100
50	M43	Z	2.294	2.294	0	%100
51	MP3B	X	-2.045	-2.045	0	%100
52	MP3B	Z	3.542	3.542	0	%100
53	M48A	X	-1.325	-1.325	0	%100
54	M48A	Z	2.294	2.294	0	%100
55	MP1B	X	-2.045	-2.045	0	%100
56	MP1B	Z	3.542	3.542	0	%100
57	M53	X	-1.325	-1.325	0	%100
58	M53	Z	2.294	2.294	0	%100
59	MP2C	X	-2.045	-2.045	0	%100
60	MP2C	Z	3.542	3.542	0	%100
61	M58	X	-2.491	-2.491	0	%100
62	M58	Z	4.314	4.314	0	%100
63	MP4C	X	-2.045	-2.045	0	%100
64	MP4C	Z	3.542	3.542	0	%100
65	M63	X	-2.491	-2.491	0	%100
66	M63	Z	4.314	4.314	0	%100
67	MP3C	X	-2.045	-2.045	0	%100
68	MP3C	Z	3.542	3.542	0	%100
69	M68B	X	-2.491	-2.491	0	%100
70	M68B	Z	4.314	4.314	0	%100
71	MP1C	X	-2.045	-2.045	0	%100
72	MP1C	Z	3.542	3.542	0	%100
73	M73	X	-2.491	-2.491	0	%100
74	M73	Z	4.314	4.314	0	%100
75	M80	X	-1.538	-1.538	0	%100
76	M80	Z	2.664	2.664	0	%100
77	M100	X	-2.277	-2.277	0	%100
78	M100	Z	3.944	3.944	0	%100
79	M101	X	-2.277	-2.277	0	%100
80	M101	Z	3.944	3.944	0	%100
81	M102	X	-2.277	-2.277	0	%100
82	M102	Z	3.944	3.944	0	%100
83	M109	X	-1.082	-1.082	0	%100
84	M109	Z	1.874	1.874	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	-1.082	-1.082	0	%100
88	M111	Z	1.874	1.874	0	%100
89	M101A	X	-1.538	-1.538	0	%100
90	M101A	Z	2.664	2.664	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[in,%]	End Location[in,%]
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-2.238	-2.238	0	%100
94	M101B	Z	3.876	3.876	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-1.575	-1.575	0	%100
98	OVP	Z	2.728	2.728	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[in,%]	End Location[in,%]
1	M1	X	-2.232	-2.232	0	%100
2	M1	Z	1.289	1.289	0	%100
3	M2	X	-2.756	-2.756	0	%100
4	M2	Z	1.591	1.591	0	%100
5	M5	X	-3.188	-3.188	0	%100
6	M5	Z	1.841	1.841	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-3.188	-3.188	0	%100
10	M7	Z	1.841	1.841	0	%100
11	M6A	X	-1.292	-1.292	0	%100
12	M6A	Z	.746	.746	0	%100
13	M7A	X	-1.292	-1.292	0	%100
14	M7A	Z	.746	.746	0	%100
15	M23A	X	-5.167	-5.167	0	%100
16	M23A	Z	2.983	2.983	0	%100
17	M39A	X	-1.292	-1.292	0	%100
18	M39A	Z	.746	.746	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-2.756	-2.756	0	%100
22	M56	Z	1.591	1.591	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-2.232	-2.232	0	%100
26	M16	Z	1.289	1.289	0	%100
27	MP2A	X	-3.542	-3.542	0	%100
28	MP2A	Z	2.045	2.045	0	%100
29	M48	X	-3.641	-3.641	0	%100
30	M48	Z	2.102	2.102	0	%100
31	MP4A	X	-3.542	-3.542	0	%100
32	MP4A	Z	2.045	2.045	0	%100
33	M64	X	-3.641	-3.641	0	%100
34	M64	Z	2.102	2.102	0	%100
35	MP3A	X	-3.542	-3.542	0	%100
36	MP3A	Z	2.045	2.045	0	%100
37	M67	X	-3.641	-3.641	0	%100
38	M67	Z	2.102	2.102	0	%100
39	MP1A	X	-3.542	-3.542	0	%100
40	MP1A	Z	2.045	2.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
41	M70	X	-3.641	-3.641	0	%100
42	M70	Z	2.102	2.102	0	%100
43	MP2B	X	-3.542	-3.542	0	%100
44	MP2B	Z	2.045	2.045	0	%100
45	M38	X	-1.621	-1.621	0	%100
46	M38	Z	.936	.936	0	%100
47	MP4B	X	-3.542	-3.542	0	%100
48	MP4B	Z	2.045	2.045	0	%100
49	M43	X	-1.621	-1.621	0	%100
50	M43	Z	.936	.936	0	%100
51	MP3B	X	-3.542	-3.542	0	%100
52	MP3B	Z	2.045	2.045	0	%100
53	M48A	X	-1.621	-1.621	0	%100
54	M48A	Z	.936	.936	0	%100
55	MP1B	X	-3.542	-3.542	0	%100
56	MP1B	Z	2.045	2.045	0	%100
57	M53	X	-1.621	-1.621	0	%100
58	M53	Z	.936	.936	0	%100
59	MP2C	X	-3.542	-3.542	0	%100
60	MP2C	Z	2.045	2.045	0	%100
61	M58	X	-3.641	-3.641	0	%100
62	M58	Z	2.102	2.102	0	%100
63	MP4C	X	-3.542	-3.542	0	%100
64	MP4C	Z	2.045	2.045	0	%100
65	M63	X	-3.641	-3.641	0	%100
66	M63	Z	2.102	2.102	0	%100
67	MP3C	X	-3.542	-3.542	0	%100
68	MP3C	Z	2.045	2.045	0	%100
69	M68B	X	-3.641	-3.641	0	%100
70	M68B	Z	2.102	2.102	0	%100
71	MP1C	X	-3.542	-3.542	0	%100
72	MP1C	Z	2.045	2.045	0	%100
73	M73	X	-3.641	-3.641	0	%100
74	M73	Z	2.102	2.102	0	%100
75	M80	X	-.888	-.888	0	%100
76	M80	Z	.513	.513	0	%100
77	M100	X	-3.944	-3.944	0	%100
78	M100	Z	2.277	2.277	0	%100
79	M101	X	-3.944	-3.944	0	%100
80	M101	Z	2.277	2.277	0	%100
81	M102	X	-3.944	-3.944	0	%100
82	M102	Z	2.277	2.277	0	%100
83	M109	X	-2.498	-2.498	0	%100
84	M109	Z	1.442	1.442	0	%100
85	M110	X	-.625	-.625	0	%100
86	M110	Z	.361	.361	0	%100
87	M111	X	-.625	-.625	0	%100
88	M111	Z	.361	.361	0	%100
89	M101A	X	-3.552	-3.552	0	%100
90	M101A	Z	2.05	2.05	0	%100
91	M102A	X	-.888	-.888	0	%100
92	M102A	Z	.513	.513	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
93	M101B	X	-5.167	-5.167	0	%100
94	M101B	Z	2.983	2.983	0	%100
95	M102B	X	-1.292	-1.292	0	%100
96	M102B	Z	.746	.746	0	%100
97	OVP	X	-2.728	-2.728	0	%100
98	OVP	Z	1.575	1.575	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[in,%]	End Location[in,%]
1	M1	X	-3.436	-3.436	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-4.243	-4.243	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-4.909	-4.909	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.227	-1.227	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.227	-1.227	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-4.475	-4.475	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-4.475	-4.475	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	-1.061	-1.061	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-1.061	-1.061	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-.859	-.859	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-.859	-.859	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-4.09	-4.09	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	-4.981	-4.981	0	%100
30	M48	Z	0	0	0	%100
31	MP4A	X	-4.09	-4.09	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	-4.981	-4.981	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	-4.09	-4.09	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	-4.981	-4.981	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	-4.09	-4.09	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	-4.981	-4.981	0	%100
42	M70	Z	0	0	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[in,%]	End Location[in,%]
43	MP2B	X	-4.09	-4.09	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	-2.649	-2.649	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	-4.09	-4.09	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	-2.649	-2.649	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	-4.09	-4.09	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	-2.649	-2.649	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	-4.09	-4.09	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	-2.649	-2.649	0	%100
58	M53	Z	0	0	0	%100
59	MP2C	X	-4.09	-4.09	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	-2.649	-2.649	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	-4.09	-4.09	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	-2.649	-2.649	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	-4.09	-4.09	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	-2.649	-2.649	0	%100
70	M68B	Z	0	0	0	%100
71	MP1C	X	-4.09	-4.09	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	-2.649	-2.649	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	-4.554	-4.554	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	-4.554	-4.554	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	-4.554	-4.554	0	%100
82	M102	Z	0	0	0	%100
83	M109	X	-2.163	-2.163	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-2.163	-2.163	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	-3.076	-3.076	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-3.076	-3.076	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-4.475	-4.475	0	%100
94	M101B	Z	0	0	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[in,%]	End Location[in,%]
95	M102B	X	-4.475	-4.475	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-3.15	-3.15	0	%100
98	OVP	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[in,%]	End Location[in,%]
1	M1	X	-2.232	-2.232	0	%100
2	M1	Z	-1.289	-1.289	0	%100
3	M2	X	-2.756	-2.756	0	%100
4	M2	Z	-1.591	-1.591	0	%100
5	M5	X	-3.188	-3.188	0	%100
6	M5	Z	-1.841	-1.841	0	%100
7	M6	X	-3.188	-3.188	0	%100
8	M6	Z	-1.841	-1.841	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-1.292	-1.292	0	%100
12	M6A	Z	-.746	-.746	0	%100
13	M7A	X	-1.292	-1.292	0	%100
14	M7A	Z	-.746	-.746	0	%100
15	M23A	X	-1.292	-1.292	0	%100
16	M23A	Z	-.746	-.746	0	%100
17	M39A	X	-5.167	-5.167	0	%100
18	M39A	Z	-2.983	-2.983	0	%100
19	M55	X	-2.756	-2.756	0	%100
20	M55	Z	-1.591	-1.591	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-2.232	-2.232	0	%100
24	M15	Z	-1.289	-1.289	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-3.542	-3.542	0	%100
28	MP2A	Z	-2.045	-2.045	0	%100
29	M48	X	-3.641	-3.641	0	%100
30	M48	Z	-2.102	-2.102	0	%100
31	MP4A	X	-3.542	-3.542	0	%100
32	MP4A	Z	-2.045	-2.045	0	%100
33	M64	X	-3.641	-3.641	0	%100
34	M64	Z	-2.102	-2.102	0	%100
35	MP3A	X	-3.542	-3.542	0	%100
36	MP3A	Z	-2.045	-2.045	0	%100
37	M67	X	-3.641	-3.641	0	%100
38	M67	Z	-2.102	-2.102	0	%100
39	MP1A	X	-3.542	-3.542	0	%100
40	MP1A	Z	-2.045	-2.045	0	%100
41	M70	X	-3.641	-3.641	0	%100
42	M70	Z	-2.102	-2.102	0	%100
43	MP2B	X	-3.542	-3.542	0	%100
44	MP2B	Z	-2.045	-2.045	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
45	M38	X	-3.641	-3.641	0	%100
46	M38	Z	-2.102	-2.102	0	%100
47	MP4B	X	-3.542	-3.542	0	%100
48	MP4B	Z	-2.045	-2.045	0	%100
49	M43	X	-3.641	-3.641	0	%100
50	M43	Z	-2.102	-2.102	0	%100
51	MP3B	X	-3.542	-3.542	0	%100
52	MP3B	Z	-2.045	-2.045	0	%100
53	M48A	X	-3.641	-3.641	0	%100
54	M48A	Z	-2.102	-2.102	0	%100
55	MP1B	X	-3.542	-3.542	0	%100
56	MP1B	Z	-2.045	-2.045	0	%100
57	M53	X	-3.641	-3.641	0	%100
58	M53	Z	-2.102	-2.102	0	%100
59	MP2C	X	-3.542	-3.542	0	%100
60	MP2C	Z	-2.045	-2.045	0	%100
61	M58	X	-1.621	-1.621	0	%100
62	M58	Z	-.936	-.936	0	%100
63	MP4C	X	-3.542	-3.542	0	%100
64	MP4C	Z	-2.045	-2.045	0	%100
65	M63	X	-1.621	-1.621	0	%100
66	M63	Z	-.936	-.936	0	%100
67	MP3C	X	-3.542	-3.542	0	%100
68	MP3C	Z	-2.045	-2.045	0	%100
69	M68B	X	-1.621	-1.621	0	%100
70	M68B	Z	-.936	-.936	0	%100
71	MP1C	X	-3.542	-3.542	0	%100
72	MP1C	Z	-2.045	-2.045	0	%100
73	M73	X	-1.621	-1.621	0	%100
74	M73	Z	-.936	-.936	0	%100
75	M80	X	-.888	-.888	0	%100
76	M80	Z	-.513	-.513	0	%100
77	M100	X	-3.944	-3.944	0	%100
78	M100	Z	-2.277	-2.277	0	%100
79	M101	X	-3.944	-3.944	0	%100
80	M101	Z	-2.277	-2.277	0	%100
81	M102	X	-3.944	-3.944	0	%100
82	M102	Z	-2.277	-2.277	0	%100
83	M109	X	-.625	-.625	0	%100
84	M109	Z	-.361	-.361	0	%100
85	M110	X	-2.498	-2.498	0	%100
86	M110	Z	-1.442	-1.442	0	%100
87	M111	X	-.625	-.625	0	%100
88	M111	Z	-.361	-.361	0	%100
89	M101A	X	-.888	-.888	0	%100
90	M101A	Z	-.513	-.513	0	%100
91	M102A	X	-3.552	-3.552	0	%100
92	M102A	Z	-2.05	-2.05	0	%100
93	M101B	X	-1.292	-1.292	0	%100
94	M101B	Z	-.746	-.746	0	%100
95	M102B	X	-5.167	-5.167	0	%100
96	M102B	Z	-2.983	-2.983	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
97	OVP	X	-2.728	-2.728	0	%100
98	OVP	Z	-1.575	-1.575	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.43	-.43	0	%100
2	M1	Z	-.744	-.744	0	%100
3	M2	X	-.53	-.53	0	%100
4	M2	Z	-.919	-.919	0	%100
5	M5	X	-.614	-.614	0	%100
6	M5	Z	-1.063	-1.063	0	%100
7	M6	X	-2.454	-2.454	0	%100
8	M6	Z	-4.251	-4.251	0	%100
9	M7	X	-.614	-.614	0	%100
10	M7	Z	-1.063	-1.063	0	%100
11	M6A	X	-2.238	-2.238	0	%100
12	M6A	Z	-3.876	-3.876	0	%100
13	M7A	X	-2.238	-2.238	0	%100
14	M7A	Z	-3.876	-3.876	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-2.238	-2.238	0	%100
18	M39A	Z	-3.876	-3.876	0	%100
19	M55	X	-2.121	-2.121	0	%100
20	M55	Z	-3.674	-3.674	0	%100
21	M56	X	-.53	-.53	0	%100
22	M56	Z	-.919	-.919	0	%100
23	M15	X	-1.718	-1.718	0	%100
24	M15	Z	-2.976	-2.976	0	%100
25	M16	X	-.43	-.43	0	%100
26	M16	Z	-.744	-.744	0	%100
27	MP2A	X	-2.045	-2.045	0	%100
28	MP2A	Z	-3.542	-3.542	0	%100
29	M48	X	-1.325	-1.325	0	%100
30	M48	Z	-2.294	-2.294	0	%100
31	MP4A	X	-2.045	-2.045	0	%100
32	MP4A	Z	-3.542	-3.542	0	%100
33	M64	X	-1.325	-1.325	0	%100
34	M64	Z	-2.294	-2.294	0	%100
35	MP3A	X	-2.045	-2.045	0	%100
36	MP3A	Z	-3.542	-3.542	0	%100
37	M67	X	-1.325	-1.325	0	%100
38	M67	Z	-2.294	-2.294	0	%100
39	MP1A	X	-2.045	-2.045	0	%100
40	MP1A	Z	-3.542	-3.542	0	%100
41	M70	X	-1.325	-1.325	0	%100
42	M70	Z	-2.294	-2.294	0	%100
43	MP2B	X	-2.045	-2.045	0	%100
44	MP2B	Z	-3.542	-3.542	0	%100
45	M38	X	-2.491	-2.491	0	%100
46	M38	Z	-4.314	-4.314	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
47	MP4B	X	-2.045	-2.045	0	%100
48	MP4B	Z	-3.542	-3.542	0	%100
49	M43	X	-2.491	-2.491	0	%100
50	M43	Z	-4.314	-4.314	0	%100
51	MP3B	X	-2.045	-2.045	0	%100
52	MP3B	Z	-3.542	-3.542	0	%100
53	M48A	X	-2.491	-2.491	0	%100
54	M48A	Z	-4.314	-4.314	0	%100
55	MP1B	X	-2.045	-2.045	0	%100
56	MP1B	Z	-3.542	-3.542	0	%100
57	M53	X	-2.491	-2.491	0	%100
58	M53	Z	-4.314	-4.314	0	%100
59	MP2C	X	-2.045	-2.045	0	%100
60	MP2C	Z	-3.542	-3.542	0	%100
61	M58	X	-1.325	-1.325	0	%100
62	M58	Z	-2.294	-2.294	0	%100
63	MP4C	X	-2.045	-2.045	0	%100
64	MP4C	Z	-3.542	-3.542	0	%100
65	M63	X	-1.325	-1.325	0	%100
66	M63	Z	-2.294	-2.294	0	%100
67	MP3C	X	-2.045	-2.045	0	%100
68	MP3C	Z	-3.542	-3.542	0	%100
69	M68B	X	-1.325	-1.325	0	%100
70	M68B	Z	-2.294	-2.294	0	%100
71	MP1C	X	-2.045	-2.045	0	%100
72	MP1C	Z	-3.542	-3.542	0	%100
73	M73	X	-1.325	-1.325	0	%100
74	M73	Z	-2.294	-2.294	0	%100
75	M80	X	-1.538	-1.538	0	%100
76	M80	Z	-2.664	-2.664	0	%100
77	M100	X	-2.277	-2.277	0	%100
78	M100	Z	-3.944	-3.944	0	%100
79	M101	X	-2.277	-2.277	0	%100
80	M101	Z	-3.944	-3.944	0	%100
81	M102	X	-2.277	-2.277	0	%100
82	M102	Z	-3.944	-3.944	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-1.082	-1.082	0	%100
86	M110	Z	-1.874	-1.874	0	%100
87	M111	X	-1.082	-1.082	0	%100
88	M111	Z	-1.874	-1.874	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-1.538	-1.538	0	%100
92	M102A	Z	-2.664	-2.664	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	-2.238	-2.238	0	%100
96	M102B	Z	-3.876	-3.876	0	%100
97	OVP	X	-1.575	-1.575	0	%100
98	OVP	Z	-2.728	-2.728	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-.809	-.809	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.809	-.809	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.279	-1.279	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.279	-1.279	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-.32	-.32	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-.32	-.32	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	-.712	-.712	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	-.712	-.712	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-.544	-.544	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	-.544	-.544	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-.608	-.608	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	-.16	-.16	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-.608	-.608	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	-.16	-.16	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-.608	-.608	0	%100
37	M67	X	0	0	0	%100
38	M67	Z	-.16	-.16	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-.608	-.608	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	-.16	-.16	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	-.608	-.608	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	-1	-1	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-.608	-.608	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-1	-1	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-.608	-.608	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[in,%]	End Location[in,%]
53	M48A	X	0	0	0	%100
54	M48A	Z	-1	-1	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	-.608	-.608	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-1	-1	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-.608	-.608	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-1	-1	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	-.608	-.608	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-1	-1	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	-.608	-.608	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	-1	-1	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	-.608	-.608	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-1	-1	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	-.608	-.608	0	%100
77	M100	X	0	0	0	%100
78	M100	Z	-1.002	-1.002	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	-1.002	-1.002	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	-1.002	-1.002	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	-.112	-.112	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	-.112	-.112	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	-.449	-.449	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	-.152	-.152	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	-.152	-.152	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	-.32	-.32	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	-.32	-.32	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	-.497	-.497	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[in,%]	End Location[in,%]
1	M1	X	.091	.091	0	%100
2	M1	Z	-.157	-.157	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
3	M2	X	.119	.119	0	%100
4	M2	Z	-.206	-.206	0	%100
5	M5	X	.135	.135	0	%100
6	M5	Z	-.234	-.234	0	%100
7	M6	X	.135	.135	0	%100
8	M6	Z	-.234	-.234	0	%100
9	M7	X	.539	.539	0	%100
10	M7	Z	-.934	-.934	0	%100
11	M6A	X	.48	.48	0	%100
12	M6A	Z	-.831	-.831	0	%100
13	M7A	X	.48	.48	0	%100
14	M7A	Z	-.831	-.831	0	%100
15	M23A	X	.48	.48	0	%100
16	M23A	Z	-.831	-.831	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	.119	.119	0	%100
20	M55	Z	-.206	-.206	0	%100
21	M56	X	.475	.475	0	%100
22	M56	Z	-.823	-.823	0	%100
23	M15	X	.091	.091	0	%100
24	M15	Z	-.157	-.157	0	%100
25	M16	X	.363	.363	0	%100
26	M16	Z	-.628	-.628	0	%100
27	MP2A	X	.304	.304	0	%100
28	MP2A	Z	-.526	-.526	0	%100
29	M48	X	.22	.22	0	%100
30	M48	Z	-.381	-.381	0	%100
31	MP4A	X	.304	.304	0	%100
32	MP4A	Z	-.526	-.526	0	%100
33	M64	X	.22	.22	0	%100
34	M64	Z	-.381	-.381	0	%100
35	MP3A	X	.304	.304	0	%100
36	MP3A	Z	-.526	-.526	0	%100
37	M67	X	.22	.22	0	%100
38	M67	Z	-.381	-.381	0	%100
39	MP1A	X	.304	.304	0	%100
40	MP1A	Z	-.526	-.526	0	%100
41	M70	X	.22	.22	0	%100
42	M70	Z	-.381	-.381	0	%100
43	MP2B	X	.304	.304	0	%100
44	MP2B	Z	-.526	-.526	0	%100
45	M38	X	.22	.22	0	%100
46	M38	Z	-.381	-.381	0	%100
47	MP4B	X	.304	.304	0	%100
48	MP4B	Z	-.526	-.526	0	%100
49	M43	X	.22	.22	0	%100
50	M43	Z	-.381	-.381	0	%100
51	MP3B	X	.304	.304	0	%100
52	MP3B	Z	-.526	-.526	0	%100
53	M48A	X	.22	.22	0	%100
54	M48A	Z	-.381	-.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
55	MP1B	X	.304	.304	0	%100
56	MP1B	Z	-.526	-.526	0	%100
57	M53	X	.22	.22	0	%100
58	M53	Z	-.381	-.381	0	%100
59	MP2C	X	.304	.304	0	%100
60	MP2C	Z	-.526	-.526	0	%100
61	M58	X	.64	.64	0	%100
62	M58	Z	-1.108	-1.108	0	%100
63	MP4C	X	.304	.304	0	%100
64	MP4C	Z	-.526	-.526	0	%100
65	M63	X	.64	.64	0	%100
66	M63	Z	-1.108	-1.108	0	%100
67	MP3C	X	.304	.304	0	%100
68	MP3C	Z	-.526	-.526	0	%100
69	M68B	X	.64	.64	0	%100
70	M68B	Z	-1.108	-1.108	0	%100
71	MP1C	X	.304	.304	0	%100
72	MP1C	Z	-.526	-.526	0	%100
73	M73	X	.64	.64	0	%100
74	M73	Z	-1.108	-1.108	0	%100
75	M80	X	.228	.228	0	%100
76	M80	Z	-.395	-.395	0	%100
77	M100	X	.501	.501	0	%100
78	M100	Z	-.868	-.868	0	%100
79	M101	X	.501	.501	0	%100
80	M101	Z	-.868	-.868	0	%100
81	M102	X	.501	.501	0	%100
82	M102	Z	-.868	-.868	0	%100
83	M109	X	.168	.168	0	%100
84	M109	Z	-.292	-.292	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	.168	.168	0	%100
88	M111	Z	-.292	-.292	0	%100
89	M101A	X	.228	.228	0	%100
90	M101A	Z	-.395	-.395	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	.48	.48	0	%100
94	M101B	Z	-.831	-.831	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	.248	.248	0	%100
98	OVP	Z	-.43	-.43	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	.471	.471	0	%100
2	M1	Z	-.272	-.272	0	%100
3	M2	X	.617	.617	0	%100
4	M2	Z	-.356	-.356	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
5	M5	X	.701	.701	0	%100
6	M5	Z	-.405	-.405	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.701	.701	0	%100
10	M7	Z	-.405	-.405	0	%100
11	M6A	X	.277	.277	0	%100
12	M6A	Z	-.16	-.16	0	%100
13	M7A	X	.277	.277	0	%100
14	M7A	Z	-.16	-.16	0	%100
15	M23A	X	1.108	1.108	0	%100
16	M23A	Z	-.64	-.64	0	%100
17	M39A	X	.277	.277	0	%100
18	M39A	Z	-.16	-.16	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	.617	.617	0	%100
22	M56	Z	-.356	-.356	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	.471	.471	0	%100
26	M16	Z	-.272	-.272	0	%100
27	MP2A	X	.526	.526	0	%100
28	MP2A	Z	-.304	-.304	0	%100
29	M48	X	.866	.866	0	%100
30	M48	Z	-.5	-.5	0	%100
31	MP4A	X	.526	.526	0	%100
32	MP4A	Z	-.304	-.304	0	%100
33	M64	X	.866	.866	0	%100
34	M64	Z	-.5	-.5	0	%100
35	MP3A	X	.526	.526	0	%100
36	MP3A	Z	-.304	-.304	0	%100
37	M67	X	.866	.866	0	%100
38	M67	Z	-.5	-.5	0	%100
39	MP1A	X	.526	.526	0	%100
40	MP1A	Z	-.304	-.304	0	%100
41	M70	X	.866	.866	0	%100
42	M70	Z	-.5	-.5	0	%100
43	MP2B	X	.526	.526	0	%100
44	MP2B	Z	-.304	-.304	0	%100
45	M38	X	.139	.139	0	%100
46	M38	Z	-.08	-.08	0	%100
47	MP4B	X	.526	.526	0	%100
48	MP4B	Z	-.304	-.304	0	%100
49	M43	X	.139	.139	0	%100
50	M43	Z	-.08	-.08	0	%100
51	MP3B	X	.526	.526	0	%100
52	MP3B	Z	-.304	-.304	0	%100
53	M48A	X	.139	.139	0	%100
54	M48A	Z	-.08	-.08	0	%100
55	MP1B	X	.526	.526	0	%100
56	MP1B	Z	-.304	-.304	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
57	M53	X	.139	.139	0	%100
58	M53	Z	-.08	-.08	0	%100
59	MP2C	X	.526	.526	0	%100
60	MP2C	Z	-.304	-.304	0	%100
61	M58	X	.866	.866	0	%100
62	M58	Z	-.5	-.5	0	%100
63	MP4C	X	.526	.526	0	%100
64	MP4C	Z	-.304	-.304	0	%100
65	M63	X	.866	.866	0	%100
66	M63	Z	-.5	-.5	0	%100
67	MP3C	X	.526	.526	0	%100
68	MP3C	Z	-.304	-.304	0	%100
69	M68B	X	.866	.866	0	%100
70	M68B	Z	-.5	-.5	0	%100
71	MP1C	X	.526	.526	0	%100
72	MP1C	Z	-.304	-.304	0	%100
73	M73	X	.866	.866	0	%100
74	M73	Z	-.5	-.5	0	%100
75	M80	X	.132	.132	0	%100
76	M80	Z	-.076	-.076	0	%100
77	M100	X	.868	.868	0	%100
78	M100	Z	-.501	-.501	0	%100
79	M101	X	.868	.868	0	%100
80	M101	Z	-.501	-.501	0	%100
81	M102	X	.868	.868	0	%100
82	M102	Z	-.501	-.501	0	%100
83	M109	X	.389	.389	0	%100
84	M109	Z	-.225	-.225	0	%100
85	M110	X	.097	.097	0	%100
86	M110	Z	-.056	-.056	0	%100
87	M111	X	.097	.097	0	%100
88	M111	Z	-.056	-.056	0	%100
89	M101A	X	.526	.526	0	%100
90	M101A	Z	-.304	-.304	0	%100
91	M102A	X	.132	.132	0	%100
92	M102A	Z	-.076	-.076	0	%100
93	M101B	X	1.108	1.108	0	%100
94	M101B	Z	-.64	-.64	0	%100
95	M102B	X	.277	.277	0	%100
96	M102B	Z	-.16	-.16	0	%100
97	OVP	X	.43	.43	0	%100
98	OVP	Z	-.248	-.248	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[in,%]	End Location[in,%]
1	M1	X	.725	.725	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.95	.95	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.079	1.079	0	%100
6	M5	Z	0	0	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[in,%]	End Location[in,%]
7	M6	X	.27	.27	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.27	.27	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	.96	.96	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	.96	.96	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	.237	.237	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	.237	.237	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	.181	.181	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	.181	.181	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	.608	.608	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	1.279	1.279	0	%100
30	M48	Z	0	0	0	%100
31	MP4A	X	.608	.608	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	1.279	1.279	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	.608	.608	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	1.279	1.279	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	.608	.608	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	1.279	1.279	0	%100
42	M70	Z	0	0	0	%100
43	MP2B	X	.608	.608	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	.44	.44	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	.608	.608	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	.44	.44	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	.608	.608	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	.44	.44	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	.608	.608	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	.44	.44	0	%100
58	M53	Z	0	0	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[in,%]	End Location[in,%]
59	MP2C	X	.608	.608	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	.44	.44	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	.608	.608	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	.44	.44	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	.608	.608	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	.44	.44	0	%100
70	M68B	Z	0	0	0	%100
71	MP1C	X	.608	.608	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	.44	.44	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	1.002	1.002	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	1.002	1.002	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	1.002	1.002	0	%100
82	M102	Z	0	0	0	%100
83	M109	X	.337	.337	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	.337	.337	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	.456	.456	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	.456	.456	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	.96	.96	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	.96	.96	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	.497	.497	0	%100
98	OVP	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[in,%]	End Location[in,%]
1	M1	X	.471	.471	0	%100
2	M1	Z	.272	.272	0	%100
3	M2	X	.617	.617	0	%100
4	M2	Z	.356	.356	0	%100
5	M5	X	.701	.701	0	%100
6	M5	Z	.405	.405	0	%100
7	M6	X	.701	.701	0	%100
8	M6	Z	.405	.405	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	.277	.277	0	%100
12	M6A	Z	.16	.16	0	%100
13	M7A	X	.277	.277	0	%100
14	M7A	Z	.16	.16	0	%100
15	M23A	X	.277	.277	0	%100
16	M23A	Z	.16	.16	0	%100
17	M39A	X	1.108	1.108	0	%100
18	M39A	Z	.64	.64	0	%100
19	M55	X	.617	.617	0	%100
20	M55	Z	.356	.356	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	.471	.471	0	%100
24	M15	Z	.272	.272	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	.526	.526	0	%100
28	MP2A	Z	.304	.304	0	%100
29	M48	X	.866	.866	0	%100
30	M48	Z	.5	.5	0	%100
31	MP4A	X	.526	.526	0	%100
32	MP4A	Z	.304	.304	0	%100
33	M64	X	.866	.866	0	%100
34	M64	Z	.5	.5	0	%100
35	MP3A	X	.526	.526	0	%100
36	MP3A	Z	.304	.304	0	%100
37	M67	X	.866	.866	0	%100
38	M67	Z	.5	.5	0	%100
39	MP1A	X	.526	.526	0	%100
40	MP1A	Z	.304	.304	0	%100
41	M70	X	.866	.866	0	%100
42	M70	Z	.5	.5	0	%100
43	MP2B	X	.526	.526	0	%100
44	MP2B	Z	.304	.304	0	%100
45	M38	X	.866	.866	0	%100
46	M38	Z	.5	.5	0	%100
47	MP4B	X	.526	.526	0	%100
48	MP4B	Z	.304	.304	0	%100
49	M43	X	.866	.866	0	%100
50	M43	Z	.5	.5	0	%100
51	MP3B	X	.526	.526	0	%100
52	MP3B	Z	.304	.304	0	%100
53	M48A	X	.866	.866	0	%100
54	M48A	Z	.5	.5	0	%100
55	MP1B	X	.526	.526	0	%100
56	MP1B	Z	.304	.304	0	%100
57	M53	X	.866	.866	0	%100
58	M53	Z	.5	.5	0	%100
59	MP2C	X	.526	.526	0	%100
60	MP2C	Z	.304	.304	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
61	M58	X	.139	.139	0	%100
62	M58	Z	.08	.08	0	%100
63	MP4C	X	.526	.526	0	%100
64	MP4C	Z	.304	.304	0	%100
65	M63	X	.139	.139	0	%100
66	M63	Z	.08	.08	0	%100
67	MP3C	X	.526	.526	0	%100
68	MP3C	Z	.304	.304	0	%100
69	M68B	X	.139	.139	0	%100
70	M68B	Z	.08	.08	0	%100
71	MP1C	X	.526	.526	0	%100
72	MP1C	Z	.304	.304	0	%100
73	M73	X	.139	.139	0	%100
74	M73	Z	.08	.08	0	%100
75	M80	X	.132	.132	0	%100
76	M80	Z	.076	.076	0	%100
77	M100	X	.868	.868	0	%100
78	M100	Z	.501	.501	0	%100
79	M101	X	.868	.868	0	%100
80	M101	Z	.501	.501	0	%100
81	M102	X	.868	.868	0	%100
82	M102	Z	.501	.501	0	%100
83	M109	X	.097	.097	0	%100
84	M109	Z	.056	.056	0	%100
85	M110	X	.389	.389	0	%100
86	M110	Z	.225	.225	0	%100
87	M111	X	.097	.097	0	%100
88	M111	Z	.056	.056	0	%100
89	M101A	X	.132	.132	0	%100
90	M101A	Z	.076	.076	0	%100
91	M102A	X	.526	.526	0	%100
92	M102A	Z	.304	.304	0	%100
93	M101B	X	.277	.277	0	%100
94	M101B	Z	.16	.16	0	%100
95	M102B	X	1.108	1.108	0	%100
96	M102B	Z	.64	.64	0	%100
97	OVP	X	.43	.43	0	%100
98	OVP	Z	.248	.248	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[in,%]	End Location[in,%]
1	M1	X	.091	.091	0	%100
2	M1	Z	.157	.157	0	%100
3	M2	X	.119	.119	0	%100
4	M2	Z	.206	.206	0	%100
5	M5	X	.135	.135	0	%100
6	M5	Z	.234	.234	0	%100
7	M6	X	.539	.539	0	%100
8	M6	Z	.934	.934	0	%100
9	M7	X	.135	.135	0	%100
10	M7	Z	.234	.234	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[in,%]	End Location[in,%]
11	M6A	X	.48	.48	0	%100
12	M6A	Z	.831	.831	0	%100
13	M7A	X	.48	.48	0	%100
14	M7A	Z	.831	.831	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	.48	.48	0	%100
18	M39A	Z	.831	.831	0	%100
19	M55	X	.475	.475	0	%100
20	M55	Z	.823	.823	0	%100
21	M56	X	.119	.119	0	%100
22	M56	Z	.206	.206	0	%100
23	M15	X	.363	.363	0	%100
24	M15	Z	.628	.628	0	%100
25	M16	X	.091	.091	0	%100
26	M16	Z	.157	.157	0	%100
27	MP2A	X	.304	.304	0	%100
28	MP2A	Z	.526	.526	0	%100
29	M48	X	.22	.22	0	%100
30	M48	Z	.381	.381	0	%100
31	MP4A	X	.304	.304	0	%100
32	MP4A	Z	.526	.526	0	%100
33	M64	X	.22	.22	0	%100
34	M64	Z	.381	.381	0	%100
35	MP3A	X	.304	.304	0	%100
36	MP3A	Z	.526	.526	0	%100
37	M67	X	.22	.22	0	%100
38	M67	Z	.381	.381	0	%100
39	MP1A	X	.304	.304	0	%100
40	MP1A	Z	.526	.526	0	%100
41	M70	X	.22	.22	0	%100
42	M70	Z	.381	.381	0	%100
43	MP2B	X	.304	.304	0	%100
44	MP2B	Z	.526	.526	0	%100
45	M38	X	.64	.64	0	%100
46	M38	Z	1.108	1.108	0	%100
47	MP4B	X	.304	.304	0	%100
48	MP4B	Z	.526	.526	0	%100
49	M43	X	.64	.64	0	%100
50	M43	Z	1.108	1.108	0	%100
51	MP3B	X	.304	.304	0	%100
52	MP3B	Z	.526	.526	0	%100
53	M48A	X	.64	.64	0	%100
54	M48A	Z	1.108	1.108	0	%100
55	MP1B	X	.304	.304	0	%100
56	MP1B	Z	.526	.526	0	%100
57	M53	X	.64	.64	0	%100
58	M53	Z	1.108	1.108	0	%100
59	MP2C	X	.304	.304	0	%100
60	MP2C	Z	.526	.526	0	%100
61	M58	X	.22	.22	0	%100
62	M58	Z	.381	.381	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[in,%]	End Location[in,%]
63	MP4C	X	.304	.304	0	%100
64	MP4C	Z	.526	.526	0	%100
65	M63	X	.22	.22	0	%100
66	M63	Z	.381	.381	0	%100
67	MP3C	X	.304	.304	0	%100
68	MP3C	Z	.526	.526	0	%100
69	M68B	X	.22	.22	0	%100
70	M68B	Z	.381	.381	0	%100
71	MP1C	X	.304	.304	0	%100
72	MP1C	Z	.526	.526	0	%100
73	M73	X	.22	.22	0	%100
74	M73	Z	.381	.381	0	%100
75	M80	X	.228	.228	0	%100
76	M80	Z	.395	.395	0	%100
77	M100	X	.501	.501	0	%100
78	M100	Z	.868	.868	0	%100
79	M101	X	.501	.501	0	%100
80	M101	Z	.868	.868	0	%100
81	M102	X	.501	.501	0	%100
82	M102	Z	.868	.868	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	.168	.168	0	%100
86	M110	Z	.292	.292	0	%100
87	M111	X	.168	.168	0	%100
88	M111	Z	.292	.292	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	.228	.228	0	%100
92	M102A	Z	.395	.395	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	.48	.48	0	%100
96	M102B	Z	.831	.831	0	%100
97	OVP	X	.248	.248	0	%100
98	OVP	Z	.43	.43	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.809	.809	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.809	.809	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.279	1.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
13	M7A	X	0	0	0	%100
14	M7A	Z	1.279	1.279	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	.32	.32	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	.32	.32	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	.712	.712	0	%100
21	M56	X	0	0	0	%100
22	M56	Z	.712	.712	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	.544	.544	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	.544	.544	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	.608	.608	0	%100
29	M48	X	0	0	0	%100
30	M48	Z	.16	.16	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	.608	.608	0	%100
33	M64	X	0	0	0	%100
34	M64	Z	.16	.16	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	.608	.608	0	%100
37	M67	X	0	0	0	%100
38	M67	Z	.16	.16	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	.608	.608	0	%100
41	M70	X	0	0	0	%100
42	M70	Z	.16	.16	0	%100
43	MP2B	X	0	0	0	%100
44	MP2B	Z	.608	.608	0	%100
45	M38	X	0	0	0	%100
46	M38	Z	1	1	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	.608	.608	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	1	1	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	.608	.608	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	1	1	0	%100
55	MP1B	X	0	0	0	%100
56	MP1B	Z	.608	.608	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	1	1	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	.608	.608	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	1	1	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	.608	.608	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	M63	X	0	0	0	%100
66	M63	Z	1	1	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	.608	.608	0	%100
69	M68B	X	0	0	0	%100
70	M68B	Z	1	1	0	%100
71	MP1C	X	0	0	0	%100
72	MP1C	Z	.608	.608	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	1	1	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	.608	.608	0	%100
77	M100	X	0	0	0	%100
78	M100	Z	1.002	1.002	0	%100
79	M101	X	0	0	0	%100
80	M101	Z	1.002	1.002	0	%100
81	M102	X	0	0	0	%100
82	M102	Z	1.002	1.002	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	.112	.112	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	.112	.112	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	.449	.449	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	.152	.152	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	.152	.152	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	.32	.32	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	.32	.32	0	%100
97	OVP	X	0	0	0	%100
98	OVP	Z	.497	.497	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[in,%]	End Location[in,%]
1	M1	X	-.091	-.091	0	%100
2	M1	Z	.157	.157	0	%100
3	M2	X	-.119	-.119	0	%100
4	M2	Z	.206	.206	0	%100
5	M5	X	-.135	-.135	0	%100
6	M5	Z	.234	.234	0	%100
7	M6	X	-.135	-.135	0	%100
8	M6	Z	.234	.234	0	%100
9	M7	X	-.539	-.539	0	%100
10	M7	Z	.934	.934	0	%100
11	M6A	X	-.48	-.48	0	%100
12	M6A	Z	.831	.831	0	%100
13	M7A	X	-.48	-.48	0	%100
14	M7A	Z	.831	.831	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[in,%]	End Location[in,%]
15	M23A	X	-.48	-.48	0	%100
16	M23A	Z	.831	.831	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M55	X	-.119	-.119	0	%100
20	M55	Z	.206	.206	0	%100
21	M56	X	-.475	-.475	0	%100
22	M56	Z	.823	.823	0	%100
23	M15	X	-.091	-.091	0	%100
24	M15	Z	.157	.157	0	%100
25	M16	X	-.363	-.363	0	%100
26	M16	Z	.628	.628	0	%100
27	MP2A	X	-.304	-.304	0	%100
28	MP2A	Z	.526	.526	0	%100
29	M48	X	-.22	-.22	0	%100
30	M48	Z	.381	.381	0	%100
31	MP4A	X	-.304	-.304	0	%100
32	MP4A	Z	.526	.526	0	%100
33	M64	X	-.22	-.22	0	%100
34	M64	Z	.381	.381	0	%100
35	MP3A	X	-.304	-.304	0	%100
36	MP3A	Z	.526	.526	0	%100
37	M67	X	-.22	-.22	0	%100
38	M67	Z	.381	.381	0	%100
39	MP1A	X	-.304	-.304	0	%100
40	MP1A	Z	.526	.526	0	%100
41	M70	X	-.22	-.22	0	%100
42	M70	Z	.381	.381	0	%100
43	MP2B	X	-.304	-.304	0	%100
44	MP2B	Z	.526	.526	0	%100
45	M38	X	-.22	-.22	0	%100
46	M38	Z	.381	.381	0	%100
47	MP4B	X	-.304	-.304	0	%100
48	MP4B	Z	.526	.526	0	%100
49	M43	X	-.22	-.22	0	%100
50	M43	Z	.381	.381	0	%100
51	MP3B	X	-.304	-.304	0	%100
52	MP3B	Z	.526	.526	0	%100
53	M48A	X	-.22	-.22	0	%100
54	M48A	Z	.381	.381	0	%100
55	MP1B	X	-.304	-.304	0	%100
56	MP1B	Z	.526	.526	0	%100
57	M53	X	-.22	-.22	0	%100
58	M53	Z	.381	.381	0	%100
59	MP2C	X	-.304	-.304	0	%100
60	MP2C	Z	.526	.526	0	%100
61	M58	X	-.64	-.64	0	%100
62	M58	Z	1.108	1.108	0	%100
63	MP4C	X	-.304	-.304	0	%100
64	MP4C	Z	.526	.526	0	%100
65	M63	X	-.64	-.64	0	%100
66	M63	Z	1.108	1.108	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[in,%]	End Location[in,%]
67	MP3C	X	-.304	-.304	0	%100
68	MP3C	Z	.526	.526	0	%100
69	M68B	X	-.64	-.64	0	%100
70	M68B	Z	1.108	1.108	0	%100
71	MP1C	X	-.304	-.304	0	%100
72	MP1C	Z	.526	.526	0	%100
73	M73	X	-.64	-.64	0	%100
74	M73	Z	1.108	1.108	0	%100
75	M80	X	-.228	-.228	0	%100
76	M80	Z	.395	.395	0	%100
77	M100	X	-.501	-.501	0	%100
78	M100	Z	.868	.868	0	%100
79	M101	X	-.501	-.501	0	%100
80	M101	Z	.868	.868	0	%100
81	M102	X	-.501	-.501	0	%100
82	M102	Z	.868	.868	0	%100
83	M109	X	-.168	-.168	0	%100
84	M109	Z	.292	.292	0	%100
85	M110	X	0	0	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	-.168	-.168	0	%100
88	M111	Z	.292	.292	0	%100
89	M101A	X	-.228	-.228	0	%100
90	M101A	Z	.395	.395	0	%100
91	M102A	X	0	0	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-.48	-.48	0	%100
94	M101B	Z	.831	.831	0	%100
95	M102B	X	0	0	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-.248	-.248	0	%100
98	OVP	Z	.43	.43	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[in,%]	End Location[in,%]
1	M1	X	-.471	-.471	0	%100
2	M1	Z	.272	.272	0	%100
3	M2	X	-.617	-.617	0	%100
4	M2	Z	.356	.356	0	%100
5	M5	X	-.701	-.701	0	%100
6	M5	Z	.405	.405	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.701	-.701	0	%100
10	M7	Z	.405	.405	0	%100
11	M6A	X	-.277	-.277	0	%100
12	M6A	Z	.16	.16	0	%100
13	M7A	X	-.277	-.277	0	%100
14	M7A	Z	.16	.16	0	%100
15	M23A	X	-1.108	-1.108	0	%100
16	M23A	Z	.64	.64	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
17	M39A	X	-.277	-.277	0	%100
18	M39A	Z	.16	.16	0	%100
19	M55	X	0	0	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-.617	-.617	0	%100
22	M56	Z	.356	.356	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-.471	-.471	0	%100
26	M16	Z	.272	.272	0	%100
27	MP2A	X	-.526	-.526	0	%100
28	MP2A	Z	.304	.304	0	%100
29	M48	X	-.866	-.866	0	%100
30	M48	Z	.5	.5	0	%100
31	MP4A	X	-.526	-.526	0	%100
32	MP4A	Z	.304	.304	0	%100
33	M64	X	-.866	-.866	0	%100
34	M64	Z	.5	.5	0	%100
35	MP3A	X	-.526	-.526	0	%100
36	MP3A	Z	.304	.304	0	%100
37	M67	X	-.866	-.866	0	%100
38	M67	Z	.5	.5	0	%100
39	MP1A	X	-.526	-.526	0	%100
40	MP1A	Z	.304	.304	0	%100
41	M70	X	-.866	-.866	0	%100
42	M70	Z	.5	.5	0	%100
43	MP2B	X	-.526	-.526	0	%100
44	MP2B	Z	.304	.304	0	%100
45	M38	X	-.139	-.139	0	%100
46	M38	Z	.08	.08	0	%100
47	MP4B	X	-.526	-.526	0	%100
48	MP4B	Z	.304	.304	0	%100
49	M43	X	-.139	-.139	0	%100
50	M43	Z	.08	.08	0	%100
51	MP3B	X	-.526	-.526	0	%100
52	MP3B	Z	.304	.304	0	%100
53	M48A	X	-.139	-.139	0	%100
54	M48A	Z	.08	.08	0	%100
55	MP1B	X	-.526	-.526	0	%100
56	MP1B	Z	.304	.304	0	%100
57	M53	X	-.139	-.139	0	%100
58	M53	Z	.08	.08	0	%100
59	MP2C	X	-.526	-.526	0	%100
60	MP2C	Z	.304	.304	0	%100
61	M58	X	-.866	-.866	0	%100
62	M58	Z	.5	.5	0	%100
63	MP4C	X	-.526	-.526	0	%100
64	MP4C	Z	.304	.304	0	%100
65	M63	X	-.866	-.866	0	%100
66	M63	Z	.5	.5	0	%100
67	MP3C	X	-.526	-.526	0	%100
68	MP3C	Z	.304	.304	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
69	M68B	X	-.866	-.866	0	%100
70	M68B	Z	.5	.5	0	%100
71	MP1C	X	-.526	-.526	0	%100
72	MP1C	Z	.304	.304	0	%100
73	M73	X	-.866	-.866	0	%100
74	M73	Z	.5	.5	0	%100
75	M80	X	-.132	-.132	0	%100
76	M80	Z	.076	.076	0	%100
77	M100	X	-.868	-.868	0	%100
78	M100	Z	.501	.501	0	%100
79	M101	X	-.868	-.868	0	%100
80	M101	Z	.501	.501	0	%100
81	M102	X	-.868	-.868	0	%100
82	M102	Z	.501	.501	0	%100
83	M109	X	-.389	-.389	0	%100
84	M109	Z	.225	.225	0	%100
85	M110	X	-.097	-.097	0	%100
86	M110	Z	.056	.056	0	%100
87	M111	X	-.097	-.097	0	%100
88	M111	Z	.056	.056	0	%100
89	M101A	X	-.526	-.526	0	%100
90	M101A	Z	.304	.304	0	%100
91	M102A	X	-.132	-.132	0	%100
92	M102A	Z	.076	.076	0	%100
93	M101B	X	-1.108	-1.108	0	%100
94	M101B	Z	.64	.64	0	%100
95	M102B	X	-.277	-.277	0	%100
96	M102B	Z	.16	.16	0	%100
97	OVP	X	-.43	-.43	0	%100
98	OVP	Z	.248	.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.725	-.725	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.95	-.95	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.079	-1.079	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.27	-.27	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.27	-.27	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-.96	-.96	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-.96	-.96	0	%100
18	M39A	Z	0	0	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[in,%]	End Location[in,%]
19	M55	X	-.237	-.237	0	%100
20	M55	Z	0	0	0	%100
21	M56	X	-.237	-.237	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-.181	-.181	0	%100
24	M15	Z	0	0	0	%100
25	M16	X	-.181	-.181	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-.608	-.608	0	%100
28	MP2A	Z	0	0	0	%100
29	M48	X	-1.279	-1.279	0	%100
30	M48	Z	0	0	0	%100
31	MP4A	X	-.608	-.608	0	%100
32	MP4A	Z	0	0	0	%100
33	M64	X	-1.279	-1.279	0	%100
34	M64	Z	0	0	0	%100
35	MP3A	X	-.608	-.608	0	%100
36	MP3A	Z	0	0	0	%100
37	M67	X	-1.279	-1.279	0	%100
38	M67	Z	0	0	0	%100
39	MP1A	X	-.608	-.608	0	%100
40	MP1A	Z	0	0	0	%100
41	M70	X	-1.279	-1.279	0	%100
42	M70	Z	0	0	0	%100
43	MP2B	X	-.608	-.608	0	%100
44	MP2B	Z	0	0	0	%100
45	M38	X	-.44	-.44	0	%100
46	M38	Z	0	0	0	%100
47	MP4B	X	-.608	-.608	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	-.44	-.44	0	%100
50	M43	Z	0	0	0	%100
51	MP3B	X	-.608	-.608	0	%100
52	MP3B	Z	0	0	0	%100
53	M48A	X	-.44	-.44	0	%100
54	M48A	Z	0	0	0	%100
55	MP1B	X	-.608	-.608	0	%100
56	MP1B	Z	0	0	0	%100
57	M53	X	-.44	-.44	0	%100
58	M53	Z	0	0	0	%100
59	MP2C	X	-.608	-.608	0	%100
60	MP2C	Z	0	0	0	%100
61	M58	X	-.44	-.44	0	%100
62	M58	Z	0	0	0	%100
63	MP4C	X	-.608	-.608	0	%100
64	MP4C	Z	0	0	0	%100
65	M63	X	-.44	-.44	0	%100
66	M63	Z	0	0	0	%100
67	MP3C	X	-.608	-.608	0	%100
68	MP3C	Z	0	0	0	%100
69	M68B	X	-.44	-.44	0	%100
70	M68B	Z	0	0	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[in,%]	End Location[in,%]
71	MP1C	X	-.608	-.608	0	%100
72	MP1C	Z	0	0	0	%100
73	M73	X	-.44	-.44	0	%100
74	M73	Z	0	0	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M100	X	-1.002	-1.002	0	%100
78	M100	Z	0	0	0	%100
79	M101	X	-1.002	-1.002	0	%100
80	M101	Z	0	0	0	%100
81	M102	X	-1.002	-1.002	0	%100
82	M102	Z	0	0	0	%100
83	M109	X	-.337	-.337	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-.337	-.337	0	%100
86	M110	Z	0	0	0	%100
87	M111	X	0	0	0	%100
88	M111	Z	0	0	0	%100
89	M101A	X	-.456	-.456	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-.456	-.456	0	%100
92	M102A	Z	0	0	0	%100
93	M101B	X	-.96	-.96	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	-.96	-.96	0	%100
96	M102B	Z	0	0	0	%100
97	OVP	X	-.497	-.497	0	%100
98	OVP	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[in,%]	End Location[in,%]
1	M1	X	-.471	-.471	0	%100
2	M1	Z	-.272	-.272	0	%100
3	M2	X	-.617	-.617	0	%100
4	M2	Z	-.356	-.356	0	%100
5	M5	X	-.701	-.701	0	%100
6	M5	Z	-.405	-.405	0	%100
7	M6	X	-.701	-.701	0	%100
8	M6	Z	-.405	-.405	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-.277	-.277	0	%100
12	M6A	Z	-.16	-.16	0	%100
13	M7A	X	-.277	-.277	0	%100
14	M7A	Z	-.16	-.16	0	%100
15	M23A	X	-.277	-.277	0	%100
16	M23A	Z	-.16	-.16	0	%100
17	M39A	X	-1.108	-1.108	0	%100
18	M39A	Z	-.64	-.64	0	%100
19	M55	X	-.617	-.617	0	%100
20	M55	Z	-.356	-.356	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
21	M56	X	0	0	0	%100
22	M56	Z	0	0	0	%100
23	M15	X	-.471	-.471	0	%100
24	M15	Z	-.272	-.272	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	0	0	0	%100
27	MP2A	X	-.526	-.526	0	%100
28	MP2A	Z	-.304	-.304	0	%100
29	M48	X	-.866	-.866	0	%100
30	M48	Z	-.5	-.5	0	%100
31	MP4A	X	-.526	-.526	0	%100
32	MP4A	Z	-.304	-.304	0	%100
33	M64	X	-.866	-.866	0	%100
34	M64	Z	-.5	-.5	0	%100
35	MP3A	X	-.526	-.526	0	%100
36	MP3A	Z	-.304	-.304	0	%100
37	M67	X	-.866	-.866	0	%100
38	M67	Z	-.5	-.5	0	%100
39	MP1A	X	-.526	-.526	0	%100
40	MP1A	Z	-.304	-.304	0	%100
41	M70	X	-.866	-.866	0	%100
42	M70	Z	-.5	-.5	0	%100
43	MP2B	X	-.526	-.526	0	%100
44	MP2B	Z	-.304	-.304	0	%100
45	M38	X	-.866	-.866	0	%100
46	M38	Z	-.5	-.5	0	%100
47	MP4B	X	-.526	-.526	0	%100
48	MP4B	Z	-.304	-.304	0	%100
49	M43	X	-.866	-.866	0	%100
50	M43	Z	-.5	-.5	0	%100
51	MP3B	X	-.526	-.526	0	%100
52	MP3B	Z	-.304	-.304	0	%100
53	M48A	X	-.866	-.866	0	%100
54	M48A	Z	-.5	-.5	0	%100
55	MP1B	X	-.526	-.526	0	%100
56	MP1B	Z	-.304	-.304	0	%100
57	M53	X	-.866	-.866	0	%100
58	M53	Z	-.5	-.5	0	%100
59	MP2C	X	-.526	-.526	0	%100
60	MP2C	Z	-.304	-.304	0	%100
61	M58	X	-.139	-.139	0	%100
62	M58	Z	-.08	-.08	0	%100
63	MP4C	X	-.526	-.526	0	%100
64	MP4C	Z	-.304	-.304	0	%100
65	M63	X	-.139	-.139	0	%100
66	M63	Z	-.08	-.08	0	%100
67	MP3C	X	-.526	-.526	0	%100
68	MP3C	Z	-.304	-.304	0	%100
69	M68B	X	-.139	-.139	0	%100
70	M68B	Z	-.08	-.08	0	%100
71	MP1C	X	-.526	-.526	0	%100
72	MP1C	Z	-.304	-.304	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
73	M73	X	-.139	-.139	0	%100
74	M73	Z	-.08	-.08	0	%100
75	M80	X	-.132	-.132	0	%100
76	M80	Z	-.076	-.076	0	%100
77	M100	X	-.868	-.868	0	%100
78	M100	Z	-.501	-.501	0	%100
79	M101	X	-.868	-.868	0	%100
80	M101	Z	-.501	-.501	0	%100
81	M102	X	-.868	-.868	0	%100
82	M102	Z	-.501	-.501	0	%100
83	M109	X	-.097	-.097	0	%100
84	M109	Z	-.056	-.056	0	%100
85	M110	X	-.389	-.389	0	%100
86	M110	Z	-.225	-.225	0	%100
87	M111	X	-.097	-.097	0	%100
88	M111	Z	-.056	-.056	0	%100
89	M101A	X	-.132	-.132	0	%100
90	M101A	Z	-.076	-.076	0	%100
91	M102A	X	-.526	-.526	0	%100
92	M102A	Z	-.304	-.304	0	%100
93	M101B	X	-.277	-.277	0	%100
94	M101B	Z	-.16	-.16	0	%100
95	M102B	X	-1.108	-1.108	0	%100
96	M102B	Z	-.64	-.64	0	%100
97	OVP	X	-.43	-.43	0	%100
98	OVP	Z	-.248	-.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.091	-.091	0	%100
2	M1	Z	-.157	-.157	0	%100
3	M2	X	-.119	-.119	0	%100
4	M2	Z	-.206	-.206	0	%100
5	M5	X	-.135	-.135	0	%100
6	M5	Z	-.234	-.234	0	%100
7	M6	X	-.539	-.539	0	%100
8	M6	Z	-.934	-.934	0	%100
9	M7	X	-.135	-.135	0	%100
10	M7	Z	-.234	-.234	0	%100
11	M6A	X	-.48	-.48	0	%100
12	M6A	Z	-.831	-.831	0	%100
13	M7A	X	-.48	-.48	0	%100
14	M7A	Z	-.831	-.831	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-.48	-.48	0	%100
18	M39A	Z	-.831	-.831	0	%100
19	M55	X	-.475	-.475	0	%100
20	M55	Z	-.823	-.823	0	%100
21	M56	X	-.119	-.119	0	%100
22	M56	Z	-.206	-.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
23	M15	X	-.363	-.363	0	%100
24	M15	Z	-.628	-.628	0	%100
25	M16	X	-.091	-.091	0	%100
26	M16	Z	-.157	-.157	0	%100
27	MP2A	X	-.304	-.304	0	%100
28	MP2A	Z	-.526	-.526	0	%100
29	M48	X	-.22	-.22	0	%100
30	M48	Z	-.381	-.381	0	%100
31	MP4A	X	-.304	-.304	0	%100
32	MP4A	Z	-.526	-.526	0	%100
33	M64	X	-.22	-.22	0	%100
34	M64	Z	-.381	-.381	0	%100
35	MP3A	X	-.304	-.304	0	%100
36	MP3A	Z	-.526	-.526	0	%100
37	M67	X	-.22	-.22	0	%100
38	M67	Z	-.381	-.381	0	%100
39	MP1A	X	-.304	-.304	0	%100
40	MP1A	Z	-.526	-.526	0	%100
41	M70	X	-.22	-.22	0	%100
42	M70	Z	-.381	-.381	0	%100
43	MP2B	X	-.304	-.304	0	%100
44	MP2B	Z	-.526	-.526	0	%100
45	M38	X	-.64	-.64	0	%100
46	M38	Z	-1.108	-1.108	0	%100
47	MP4B	X	-.304	-.304	0	%100
48	MP4B	Z	-.526	-.526	0	%100
49	M43	X	-.64	-.64	0	%100
50	M43	Z	-1.108	-1.108	0	%100
51	MP3B	X	-.304	-.304	0	%100
52	MP3B	Z	-.526	-.526	0	%100
53	M48A	X	-.64	-.64	0	%100
54	M48A	Z	-1.108	-1.108	0	%100
55	MP1B	X	-.304	-.304	0	%100
56	MP1B	Z	-.526	-.526	0	%100
57	M53	X	-.64	-.64	0	%100
58	M53	Z	-1.108	-1.108	0	%100
59	MP2C	X	-.304	-.304	0	%100
60	MP2C	Z	-.526	-.526	0	%100
61	M58	X	-.22	-.22	0	%100
62	M58	Z	-.381	-.381	0	%100
63	MP4C	X	-.304	-.304	0	%100
64	MP4C	Z	-.526	-.526	0	%100
65	M63	X	-.22	-.22	0	%100
66	M63	Z	-.381	-.381	0	%100
67	MP3C	X	-.304	-.304	0	%100
68	MP3C	Z	-.526	-.526	0	%100
69	M68B	X	-.22	-.22	0	%100
70	M68B	Z	-.381	-.381	0	%100
71	MP1C	X	-.304	-.304	0	%100
72	MP1C	Z	-.526	-.526	0	%100
73	M73	X	-.22	-.22	0	%100
74	M73	Z	-.381	-.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
75	M80	X	-.228	-.228	0	%100
76	M80	Z	-.395	-.395	0	%100
77	M100	X	-.501	-.501	0	%100
78	M100	Z	-.868	-.868	0	%100
79	M101	X	-.501	-.501	0	%100
80	M101	Z	-.868	-.868	0	%100
81	M102	X	-.501	-.501	0	%100
82	M102	Z	-.868	-.868	0	%100
83	M109	X	0	0	0	%100
84	M109	Z	0	0	0	%100
85	M110	X	-.168	-.168	0	%100
86	M110	Z	-.292	-.292	0	%100
87	M111	X	-.168	-.168	0	%100
88	M111	Z	-.292	-.292	0	%100
89	M101A	X	0	0	0	%100
90	M101A	Z	0	0	0	%100
91	M102A	X	-.228	-.228	0	%100
92	M102A	Z	-.395	-.395	0	%100
93	M101B	X	0	0	0	%100
94	M101B	Z	0	0	0	%100
95	M102B	X	-.48	-.48	0	%100
96	M102B	Z	-.831	-.831	0	%100
97	OVP	X	-.248	-.248	0	%100
98	OVP	Z	-.43	-.43	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M2	Y	-9.42	-9.42	0	23.395
2	M6	Y	-1.029	-4.932	0	23.395
3	M6	Y	-4.932	-8.836	23.395	46.79
4	M7	Y	-1.029	-4.932	0	23.395
5	M7	Y	-4.932	-8.836	23.395	46.79
6	M6A	Y	-3.873	-3.873	.118	86.834
7	M7A	Y	-1.078	-2.687	0	27.999
8	M7A	Y	-2.687	-3.771	27.999	55.998
9	M7A	Y	-3.771	-4.052	55.998	83.997
10	M7A	Y	-4.052	-3.771	83.997	111.996
11	M7A	Y	-3.771	-2.687	111.996	139.995
12	M7A	Y	-2.687	-1.078	139.995	167.994
13	M5	Y	-1.029	-4.932	0	23.395
14	M5	Y	-4.932	-8.836	23.395	46.79
15	M23A	Y	-3.873	-3.873	.118	86.834
16	M55	Y	-9.42	-9.42	0	23.395
17	M101B	Y	-1.078	-2.687	0	27.999
18	M101B	Y	-2.687	-3.771	27.999	55.998
19	M101B	Y	-3.771	-4.052	55.998	83.997
20	M101B	Y	-4.052	-3.771	83.997	111.996
21	M101B	Y	-3.771	-2.687	111.996	139.995
22	M101B	Y	-2.687	-1.078	139.995	167.994
23	M39A	Y	-3.873	-3.873	.118	86.834
24	M56	Y	-9.42	-9.42	0	23.395

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
25	M102B	Y	-1.078	-2.687	0	27.999
26	M102B	Y	-2.687	-3.771	27.999	55.998
27	M102B	Y	-3.771	-4.052	55.998	83.997
28	M102B	Y	-4.052	-3.771	83.997	111.996
29	M102B	Y	-3.771	-2.687	111.996	139.995
30	M102B	Y	-2.687	-1.078	139.995	167.994

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M2	Y	-22.801	-22.801	0	23.395
2	M6	Y	-2.49	-11.939	0	23.395
3	M6	Y	-11.939	-21.388	23.395	46.79
4	M7	Y	-2.49	-11.939	0	23.395
5	M7	Y	-11.939	-21.388	23.395	46.79
6	M6A	Y	-9.375	-9.375	.118	86.834
7	M7A	Y	-2.61	-6.504	0	27.999
8	M7A	Y	-6.504	-9.129	27.999	55.998
9	M7A	Y	-9.129	-9.808	55.998	83.997
10	M7A	Y	-9.808	-9.129	83.997	111.996
11	M7A	Y	-9.129	-6.504	111.996	139.995
12	M7A	Y	-6.504	-2.61	139.995	167.994
13	M5	Y	-2.49	-11.939	0	23.395
14	M5	Y	-11.939	-21.388	23.395	46.79
15	M23A	Y	-9.375	-9.375	.118	86.834
16	M55	Y	-22.801	-22.801	0	23.395
17	M101B	Y	-2.61	-6.504	0	27.999
18	M101B	Y	-6.504	-9.129	27.999	55.998
19	M101B	Y	-9.129	-9.808	55.998	83.997
20	M101B	Y	-9.808	-9.129	83.997	111.996
21	M101B	Y	-9.129	-6.504	111.996	139.995
22	M101B	Y	-6.504	-2.61	139.995	167.994
23	M39A	Y	-9.375	-9.375	.118	86.834
24	M56	Y	-22.801	-22.801	0	23.395
25	M102B	Y	-2.61	-6.504	0	27.999
26	M102B	Y	-6.504	-9.129	27.999	55.998
27	M102B	Y	-9.129	-9.808	55.998	83.997
28	M102B	Y	-9.808	-9.129	83.997	111.996
29	M102B	Y	-9.129	-6.504	111.996	139.995
30	M102B	Y	-6.504	-2.61	139.995	167.994

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.005
2	N18	N17	N10	N14	Y	Two Way	-.005
3	N14	N10	N15	N16	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.013

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
2	N18	N17	N10	N14	Y	Two Way	-.013
3	N14	N10	N15	N16	Y	Two Way	-.013

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	N2	max	2154.973	11	3080.679	19	1016.009	1	-1.086	1	1.173	8	1.287	4
2		min	-2151.475	5	629.646	1	-1001.011	7	-7.077	19	-1.168	2	-1.433	10
3	N30	max	1618.687	11	2947.134	15	2325.204	12	3.402	13	1.62	5	6.314	16
4		min	-1587.435	5	619.349	9	-2324.118	6	-.236	7	-1.627	11	1.056	10
5	N33	max	1390.335	10	2902.27	23	1939.08	1	3.903	13	1.367	3	-.827	4
6		min	-1425.281	4	568.777	5	-1951.427	7	.004	7	-1.361	9	-5.872	22
7	Totals:	max	4931.556	10	8609.004	14	5222.891	1						
8		min	-4931.569	4	2942.053	8	-5222.896	7						

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

	Member	Shape	Code ...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [..	phi*Pnt [l..	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M101B	L3X3X4	.968	83.997	16	.384	83.997	y	9	15779.256	46656	1.688	2.161	1	H2-1
2	M102B	L3X3X4	.927	83.997	24	.389	83.997	y	5	15779.256	46656	1.688	2.161	1	H2-1
3	M7A	L3X3X4	.920	83.997	20	.419	83.997	y	1	15779.256	46656	1.688	2.161	1	H2-1
4	M6A	L3X3X4	.480	43.476	17	.020	43.476	z	17	14725.03	46656	1.688	3.173	1....	H2-1
5	M23A	L3X3X4	.475	43.476	13	.020	43.476	z	17	14725.03	46656	1.688	3.166	1....	H2-1
6	M39A	L3X3X4	.470	43.476	21	.020	43.476	z	13	14725.03	46656	1.688	3.167	1....	H2-1
7	M1	HSS4X4X4	.456	0	20	.161	0	z	10	139144....	139518	16.181	16.181	1....	H1-1b
8	M15	HSS4X4X4	.455	0	16	.175	0	z	6	139144....	139518	16.181	16.181	1....	H1-1b
9	MP3C	PIPE_2.0	.454	14	21	.165	47.25		21	17855.085	32130	1.872	1.872	2....	H1-1b
10	MP3A	PIPE_2.0	.449	14	17	.162	47.25		17	17855.085	32130	1.872	1.872	1....	H1-1b
11	M16	HSS4X4X4	.443	0	22	.156	0	z	2	139144....	139518	16.181	16.181	1....	H1-1b
12	M80	PIPE_2.0	.432	75	18	.164	75		9	6295.422	32130	1.872	1.872	1....	H1-1b
13	MP1B	PIPE_2.0	.421	46.375	17	.165	17.5		4	17855.085	32130	1.872	1.872	1....	H1-1b
14	M101A	PIPE_2.0	.415	75	14	.175	75		17	6295.422	32130	1.872	1.872	1....	H1-1b
15	M102A	PIPE_2.0	.412	75	22	.166	75		1	6295.422	32130	1.872	1.872	1....	H1-1b
16	MP3B	PIPE_2.0	.404	14	13	.154	47.25		13	17855.085	32130	1.872	1.872	1....	H1-1b
17	MP2B	PIPE_2.0	.399	14	6	.127	47.25		7	17855.085	32130	1.872	1.872	1....	H1-1b
18	MP1C	PIPE_2.0	.381	14	24	.181	47.25		24	17855.085	32130	1.872	1.872	2....	H1-1b
19	MP1A	PIPE_2.0	.370	14	20	.158	17.5		8	17855.085	32130	1.872	1.872	1....	H1-1b
20	MP4C	PIPE_2.0	.368	46.375	10	.138	14		8	17855.085	32130	1.872	1.872	1....	H1-1b
21	MP4A	PIPE_2.0	.336	46.375	6	.147	46.375		6	17855.085	32130	1.872	1.872	1....	H1-1b
22	MP2C	PIPE_2.0	.336	46.375	1	.157	47.25		1	17855.085	32130	1.872	1.872	1....	H1-1b
23	MP2A	PIPE_2.0	.325	46.375	9	.091	47.25		10	17855.085	32130	1.872	1.872	1....	H1-1b
24	MP4B	PIPE_2.0	.316	46.375	1	.135	14		2	17855.085	32130	1.872	1.872	2....	H1-1b
25	M55	HSS4.5X4.5...	.289	0	14	.120	0	y	18	119859....	121302	16.25	16.25	1....	H1-1b
26	M2	HSS4.5X4.5...	.286	0	18	.117	0	y	34	119859....	121302	16.25	16.25	1....	H1-1b
27	M56	HSS4.5X4.5...	.284	0	22	.113	0	y	14	119859....	121302	16.25	16.25	1....	H1-1b
28	M109	PIPE_2.0	.272	0	7	.130	25.916		6	30382.591	32130	1.872	1.872	2....	H1-1b
29	M111	PIPE_2.0	.239	0	11	.133	0		4	30382.591	32130	1.872	1.872	2....	H1-1b
30	M110	PIPE_2.0	.235	0	4	.121	0		8	30382.591	32130	1.872	1.872	2....	H1-1b
31	M48	PL3/8x5	.187	3.438	8	.304	3.438	y	10	38765.924	60750	.475	6.328	1....	H1-1b
32	M38	PL3/8x5	.175	3.438	4	.264	3.438	y	6	38765.924	60750	.475	6.328	1....	H1-1b
33	M58	PL3/8x5	.167	3.438	5	.213	3.438	y	3	38765.924	60750	.475	6.328	1....	H1-1b

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

	Member	Shape	Code ...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [..	phi*Pnt [l..	phi*Mn y...	phi*Mn z...	Cb	Eqn
34	M64	PL3/8x5	.149	3.542	7	.340	3.438	y	2	38765.924	60750	.475	6.328	1....	H1-1b
35	M63	PL3/8x5	.149	3.542	11	.205	3.438	y	9	38765.924	60750	.475	6.328	1....	H1-1b
36	M43	PL3/8x5	.132	3.542	4	.401	3.438	y	10	38765.924	60750	.475	6.328	1....	H1-1b
37	M5	LL3x3x4x0	.118	0	4	.013	46.79	z	4	76391.439	93312	6.48	4.361	2....	H1-1b
38	OVP	PIPE_2.0	.117	30	7	.012	30		7	28843.414	32130	1.872	1.872	1	H1-1b
39	M48A	PL3/8x5	.111	3.542	24	.249	3.438	y	11	38765.924	60750	.475	6.328	1....	H1-1b
40	M7	LL3x3x4x0	.111	0	7	.013	46.79	y	19	76391.439	93312	6.48	4.361	2....	H1-1b
41	M6	LL3x3x4x0	.111	0	12	.017	46.79	y	35	76391.439	93312	6.48	4.361	1....	H1-1b
42	M68B	PL3/8x5	.110	3.542	21	.226	0	y	12	38765.924	60750	.475	6.328	1....	H1-1b
43	M67	PL3/8x5	.109	3.542	17	.273	3.438	y	2	38765.924	60750	.475	6.328	1....	H1-1b
44	M73	PL3/8x5	.108	3.542	23	.276	3.438	y	17	38765.924	60750	.475	6.328	1....	H1-1b
45	M70	PL3/8x5	.096	3.438	13	.214	0	y	1	38765.924	60750	.475	6.328	1....	H1-1b
46	M53	PL3/8x5	.089	3.542	15	.180	0	y	21	38765.924	60750	.475	6.328	1....	H1-1b
47	M101	L3X3X4	.066	0	6	.014	36	z	7	38223.022	46656	1.688	3.658	1....	H2-1
48	M102	L3X3X4	.063	0	20	.018	36	z	8	38223.022	46656	1.688	3.658	1....	H2-1
49	M100	L3X3X4	.059	.375	10	.016	36	z	4	38223.022	46656	1.688	3.658	1....	H2-1

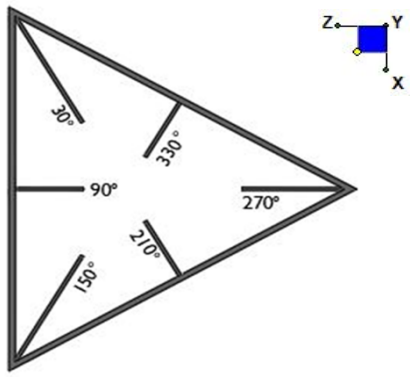
Client:	Verizon	Date:	6/30/2021
Site Name:	Hartford N Ct		
Project No.	21777452A		
Title:	Tower Connection Check	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

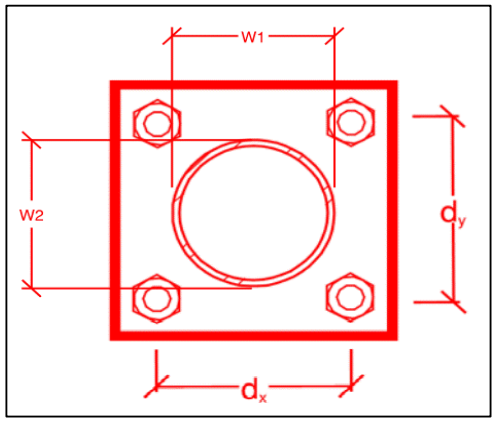
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N2	90
N33	330
N30	210



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	no
Bolt Quantity per Reaction:	2
d_x (in) *(Delta X of typ. bolt config. sketch)* :	
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	
Bolt Type:	A325N
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	0.8
Required Shear Strength (kips):	3.0
Tensile Strength / bolt (kips):	13.3
Shear Strength / bolt (kips):	8.0
Tensile Capacity Overall:	**3.1%***
Shear Capacity Overall:	**18.6%**



**Note: Tension reduction not required if tension or shear capacity < 30%*

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	0
Plate Height (in):	0
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	3.91
Plate Bending Capacity:	**#N/A**
Weld Capacity:	**93.5%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	#N/A
Phi*Mn_{xx} *(kip-in)* :	0.0
Mu_{yy} *(kip-in)* :	#N/A
Phi*Mn_{yy} *(kip-in)* :	0.0

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

Purpose – to provide Maser Consulting Connecticut 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:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- 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.
- The photos in the file structure should be uploaded to ***https://pmi.vzwsmart.com*** as depicted on the drawings

Photo Requirements:

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the equipment modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- *Photos taken at Mount Elevation*
  - Photos showing each individual sector before and also after installation of equipment.

- These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

PER CLOSEOUT PHOTOS DATED 5/7/2021 THE SUPPORT RAIL WAS ASSUMED TO BE PERFECT VISION P/N: PV-PHK12-12-R1. CONTRACTOR TO VERIFY AND NOTIFY MASER IMMEDIATELY FOR A REANALYSIS IF THIS IS INCORRECT. CONTRACTOR SHALL REPLACE ALL EXISTING SUPPORT RAIL EQUIPMENT MOUNT PIPE CONNECTIONS WITH VZWSMART MSK1 KITS CONTRACTOR TO RELOCATE EXISTING OVP TO A 36” LONG P2.0 STD PIPE ON THE STANDOFF HORIZONTAL IN ALPHA SECTOR. ATTACH THE PROPOSED OVP PIPE TO THE STANDOFF HORIZONTAL USING SITE PRO 1 (PART #: SQCX4-K).

Response:

Schedule A – Photo & Document File Structure

- VzW Site Number / Name
  - Base & "During Installation" Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

Structure: 467518-VZW - HARTFORD N CT

Sector: **A**

Structure Type: Self Support

Mount Elev: 113.50

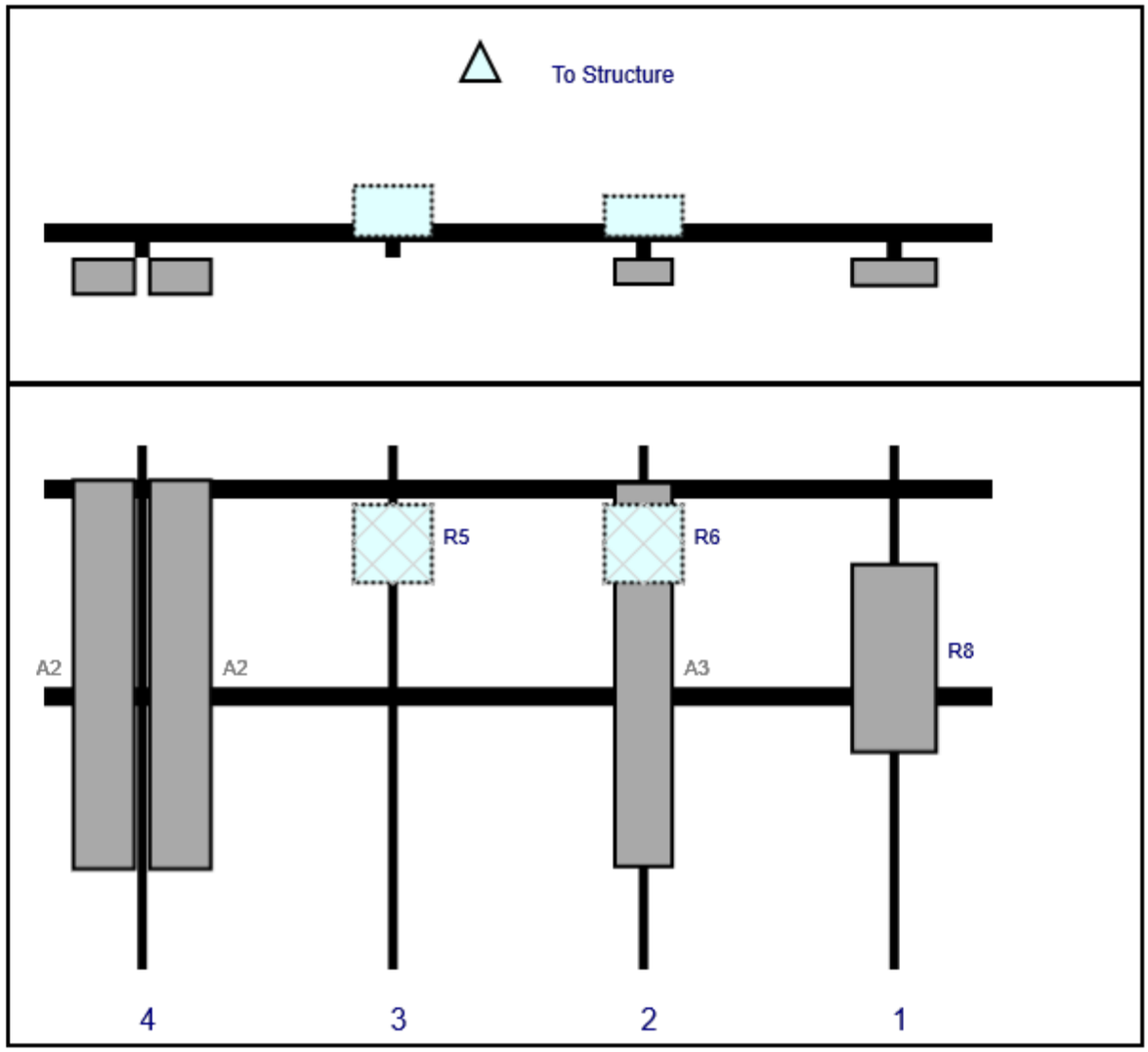
10079717

6/30/2021

Page: 1

Plan View

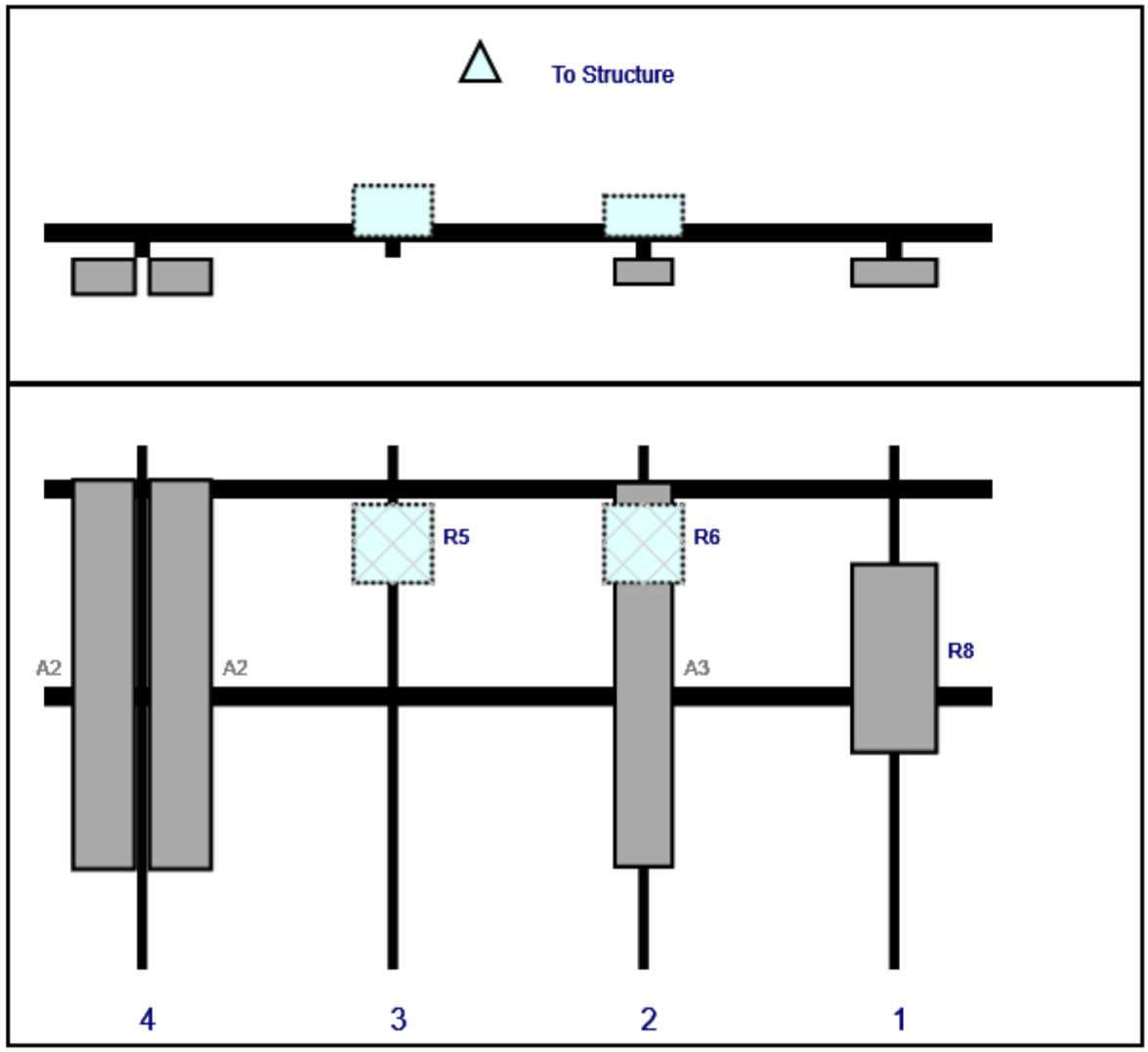
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R8	MT6407-77A	35.1	16.1	156	1	a	Front	39	0	Added	
A3	BXA-70063-6CF-EDIN-4	71	11.2	110	2	a	Front	42	0	Retained	03/29/2021
R6	RFV01U-D2A	15	15	110	2	a	Behind	18	0	Retained	03/29/2021
R5	RFV01U-D1A	15	15	64	3	a	Behind	18	0	Retained	03/29/2021
A2	SBNHH-1D65B	72	11.9	18	4	a	Front	42	7	Retained	03/29/2021
A2	SBNHH-1D65B	72	11.9	18	4	b	Front	42	-7	Retained	03/29/2021

Plan View

Front View
Looking at Structure



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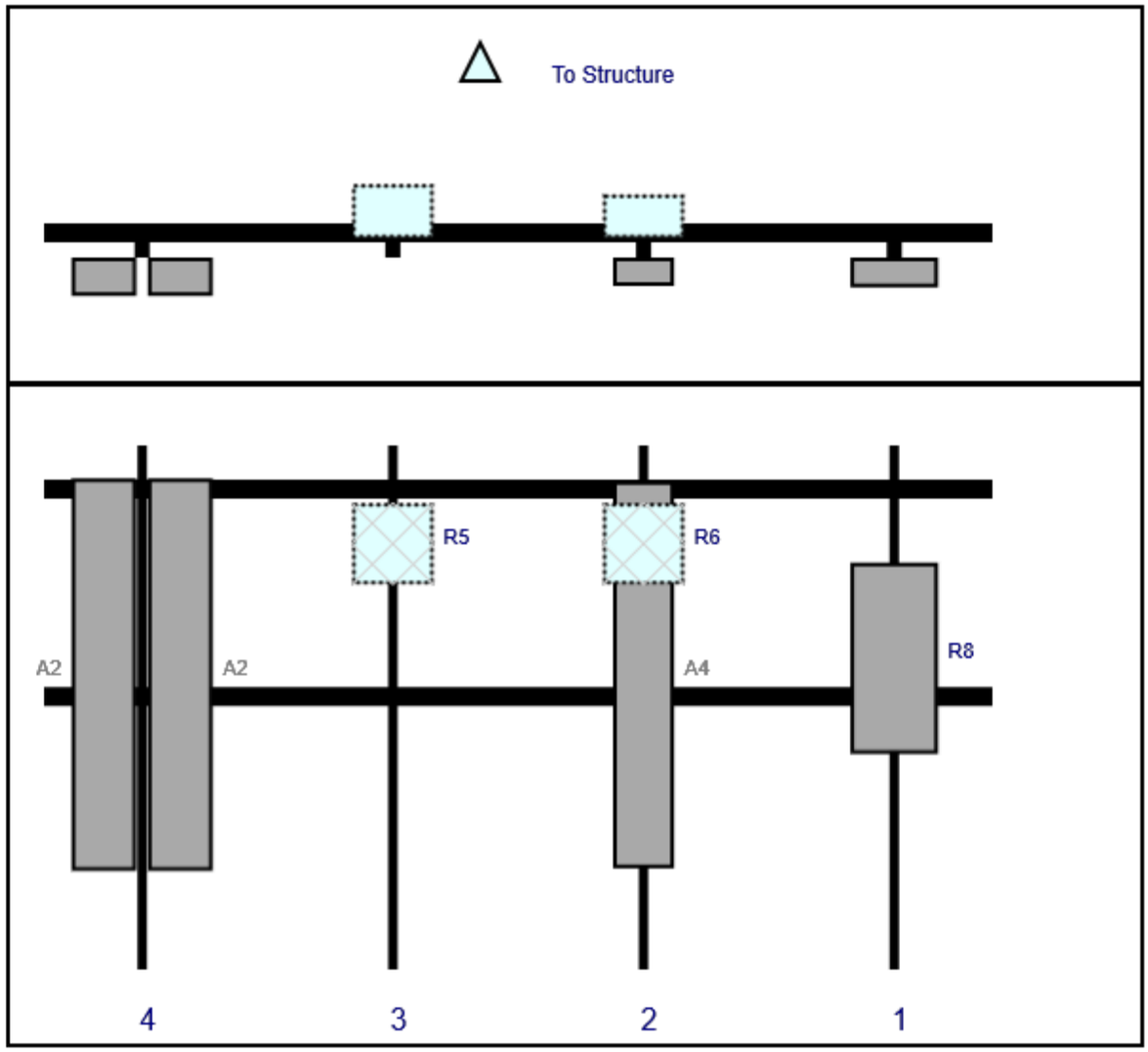
Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R8	MT6407-77A	35.1	16.1	156	1	a	Front	39	0	Added	
A4	BXA-70063-6CF-EDIN-2	71	11.2	110	2	a	Front	42	0	Retained	03/29/2021
R6	RFV01U-D2A	15	15	110	2	a	Behind	18	0	Retained	03/29/2021
R5	RFV01U-D1A	15	15	64	3	a	Behind	18	0	Retained	03/29/2021
A2	SBNHH-1D65B	72	11.9	18	4	a	Front	42	7	Retained	03/29/2021
A2	SBNHH-1D65B	72	11.9	18	4	b	Front	42	-7	Retained	03/29/2021

Maser Consulting Connecticut

MASER CONSULTING
— CONNECTICUT —

Subject		TIA-222-H Usage
Site Information	Site ID:	467518-VZW / HARTFORD N CT
	Site Name:	HARTFORD N CT
	Carrier Name:	Verizon Wireless
	Address:	305 WEST SERVICE RD Hartford, Connecticut 06120 Hartford County
	Latitude:	41.798055°
	Longitude:	-72.655833°
Structure Information	Tower Type:	180.00-Ft Monopole
	Mount Type:	14.50-Ft T-Arm

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed map by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Dejian Xu

Dejian Xu, PE
Technical Manager

Site Name: ***HARTFORD N CT***
Cumulative Power Density

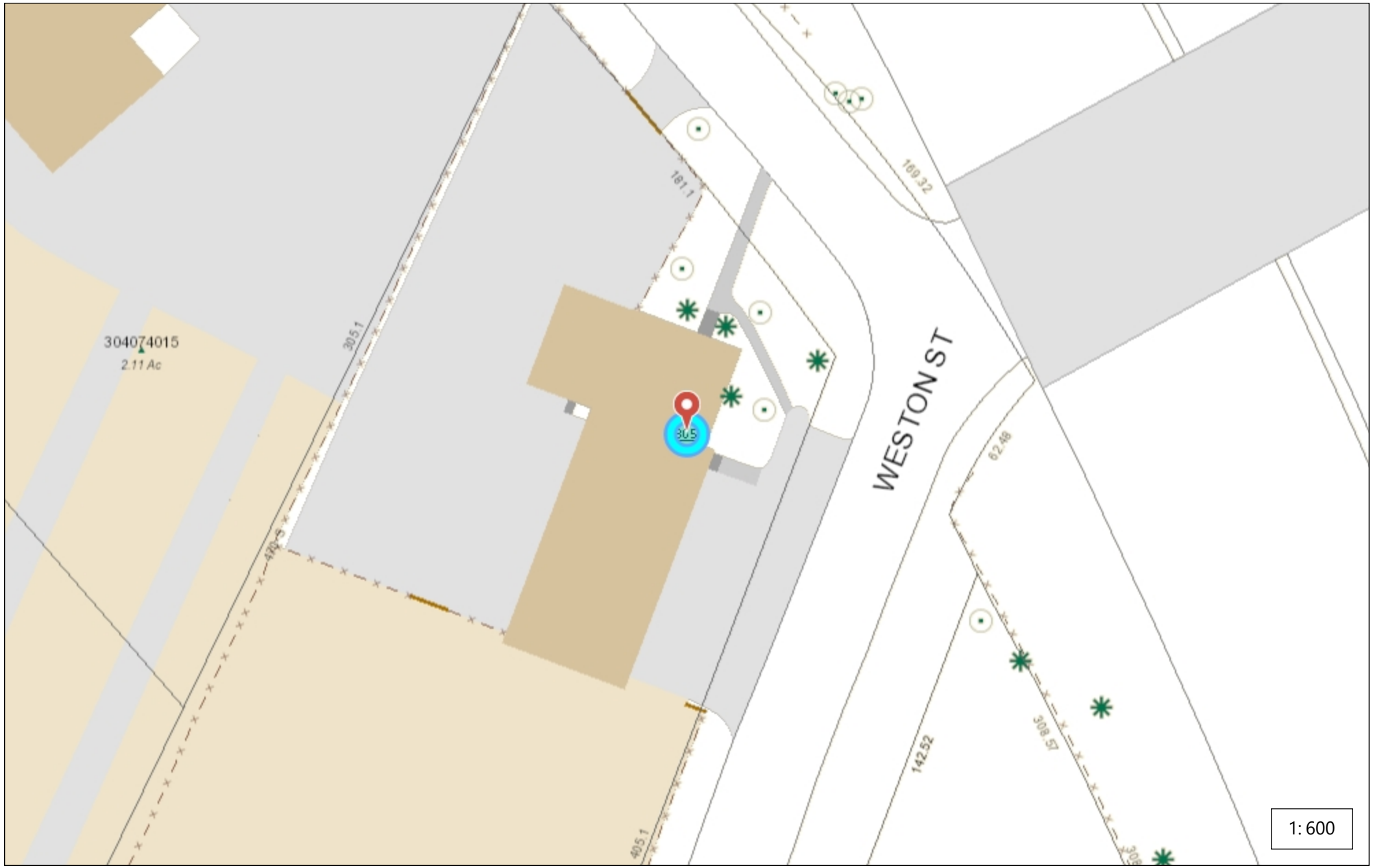
Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	697	2788	115	0.0076	0.5007	1.51%
VZW CDMA	869	2	393	786	115	0.0021	0.5793	0.37%
VZW Cellular	869	4	826	3304	115	0.0090	0.5793	1.55%
VZW PCS	1970	4	1557	6228	115	0.0169	1.0000	1.69%
VZW AWS	2110	4	1540	6160	115	0.0168	1.0000	1.68%
VZW CBAND	3730	4	6531	26124	115	0.0710	1.0000	7.10%
Total Percentage of Maximum Permissible Exposure								13.91%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

City of Hartford - Property Map



100 0 50 100 Feet

City of Hartford GIS Services - HartfordGIS

Date Printed: 8/31/2021

The planimetric and topographic information depicted on this map was compiled by The Sanbor Map Company and is based on an aerial flight performed in April 2015. In addition, the City's GIS staff has been updating limited planimetric features on a yearly basis. The intent of this map is to depict a graphical representation of real property information relative to the planimetric features for the City of Hartford and is subject to change as a more accurate survey may disclose. The City of Hartford and the mapping company assume no legal responsibility for the information contained in this data. THIS MAP IS NOT TO BE USED FOR THE TRANSFER OF PROPERTY

N W E S

Unofficial Property Record Card - Hartford, CT

General Property Data

Parcel ID	304-074-014	**Account Number**	
Prior Parcel ID			
Property Owner	305 W SERVICE RD ASSOC LLC	**Property Location**	305 WEST SERVICE RD
		Property Use	AUTO REPAIR
Mailing Address	305 W SERVICE RD	**Most Recent Sale Date**	5/29/1998
		Legal Reference	03960 0282
City	HARTFORD	**Grantor**	
Mailing State	CT Zip 06120-9555	**Sale Price**	280,000
ParcelZoning	ID-1	**Land Area**	85,813.000 acres

Current Property Assessment

Card 1 Value	Building Value	Xtra Features Value	Land Value	Total Value
	23,520	6,300	490,140	519,960

Building Description

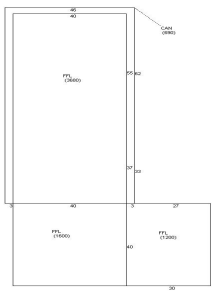
Building Style	AUTO SERVICE	**Foundation Type**	Concrete	**Flooring Type**	CONCRETE
# of Living Units	0	**Frame Type**	Steel	**Basement Floor**	CONCRETE
Year Built	1960	**Roof Structure**	FLAT	**Heating Type**	Warm Air
Building Grade	Average	**Roof Cover**	Membrane	**Heating Fuel**	Gas
Building Condition	N/A	**Siding**	Conc Block	**Air Conditioning**	0%
Finished Area (SF)	N/A	**Interior Walls**	DRYWALL	**# of Bsmt Garages**	0
Number Rooms	0	**# of Bedrooms**	0	**# of Full Baths**	0
# of 3/4 Baths	0	**# of 1/2 Baths**	0	**# of Other Fixtures**	0

Legal Description

Narrative Description of Property

This property contains 85,813.000 acres of land mainly classified as AUTO REPAIR with a(n) AUTO SERVICE style building, built about 1960 , having Conc Block exterior and Membrane roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

Property Images



Disclaimer: This information is believed to be correct but is subject to change and is not warranteed.

VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: WEST SERVICE ROAD
ATC SITE NUMBER: 302466
VERIZON SITE NAME: HARTFORD NORTH CT
VERIZON SITE NUMBER:467518
SITE ADDRESS: 305 W. SERVICE RD.
HARTFORD, CT 06120

LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

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. 2015 INTERNATIONAL BUILDING CODE (IBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. 2018 CONNECTICUT STATE BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: C. L.& P.
PHONE: (800) 286-2000

TELEPHONE COMPANY: AT&T
PHONE: (800) 288-2020

811
Know what's **below.**
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

305 W. SERVICE RD.

HARTFORD, CT 06120

COUNTY: HARTFORD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.79953889

LONGITUDE: -72.65669722

GROUND ELEVATION: 20' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

CLS ENGINEERING, PLLC
319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460
FAX: (405)341-4625

PROPERTY OWNER:

305 WEST SERVICES
RD ASSOC LLC
305 W. SERVICE RD.
HARTFORD, CT 06120

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

REMOVE (3) ANTENNA(s)

INSTALL (6) ANTENNA(s)

EXISTING (6) ANTENNA(s), (6) RRH(s), (2) OVP, (6) 1-5/8" COAX CABLE(s), AND (2) 6X12 HYBRID CABLE(s) TO REMAIN

AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS

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.

PROJECT LOCATION DIRECTIONS

DIRECTIONS FROM NEXTEL WHITE PLAINS OAK OFC: 5 BROADWAY (HWY 119) NORTH TO WESTCHESTER AVE. TO I-287 EAST (CROSS WESTCHESTER EXPWAY) TO I-684 NORTH APPROX. .28 MILES TO I-84 EAST. TAKE I-84 EAST 63.6 MILES TO HIGH ST./HARTFORD EXIT) BEAR LEFT ONTO MAIN ST. FOR 1.8 MILES THEN TURN RIGHT ONTO FISHFREY ST. FOR .2 MILES TURN LEFT ON WESTON ST. .5 MILES AND THEN LEFT ONTO WEST SERVICE RD. SITE IS SOUTHWEST CORNER OF LARGER VACANT LOT AT CURVE OF RD ADJACENT TO KOHLER EQUIP. DISTRUBUTOR.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	08/06/21	ASO
G-002	GENERAL NOTES	0	08/06/21	ASO
C-101	DETAILED SITE PLAN	0	08/06/21	ASO
C-201	TOWER ELEVATION	0	08/06/21	ASO
C-401	ANTENNA INFORMATION & SCHEDULE	0	08/06/21	ASO
C-501	CONSTRUCTION DETAILS	0	08/06/21	ASO
E-501	GROUNDING DETAILS	0	08/06/21	ASO
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			

AMERICAN TOWER®

CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP. 08/14/2022

REV.	DESCRIPTION	BY	DATE
A	PRELIM	ASO	06/01/21
0	FOR CONSTRUCTION	ASO	08/06/21

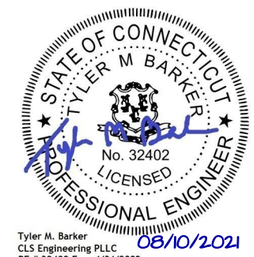
ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

PE# 32402 EXP: 01/31/2022

verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

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 ANSI/EIA/TIA-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. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL 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 CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

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.

AMERICAN TOWER®

CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP. 08/14/2022

REV.	DESCRIPTION	BY	DATE
A	PRELIM	ASO	06/01/21
0	FOR CONSTRUCTION	ASO	08/06/21

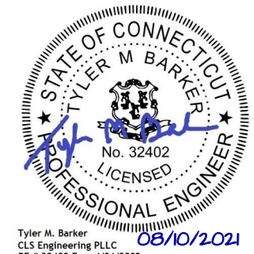
ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

PE# 32402 EXP: 01/31/2022

verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

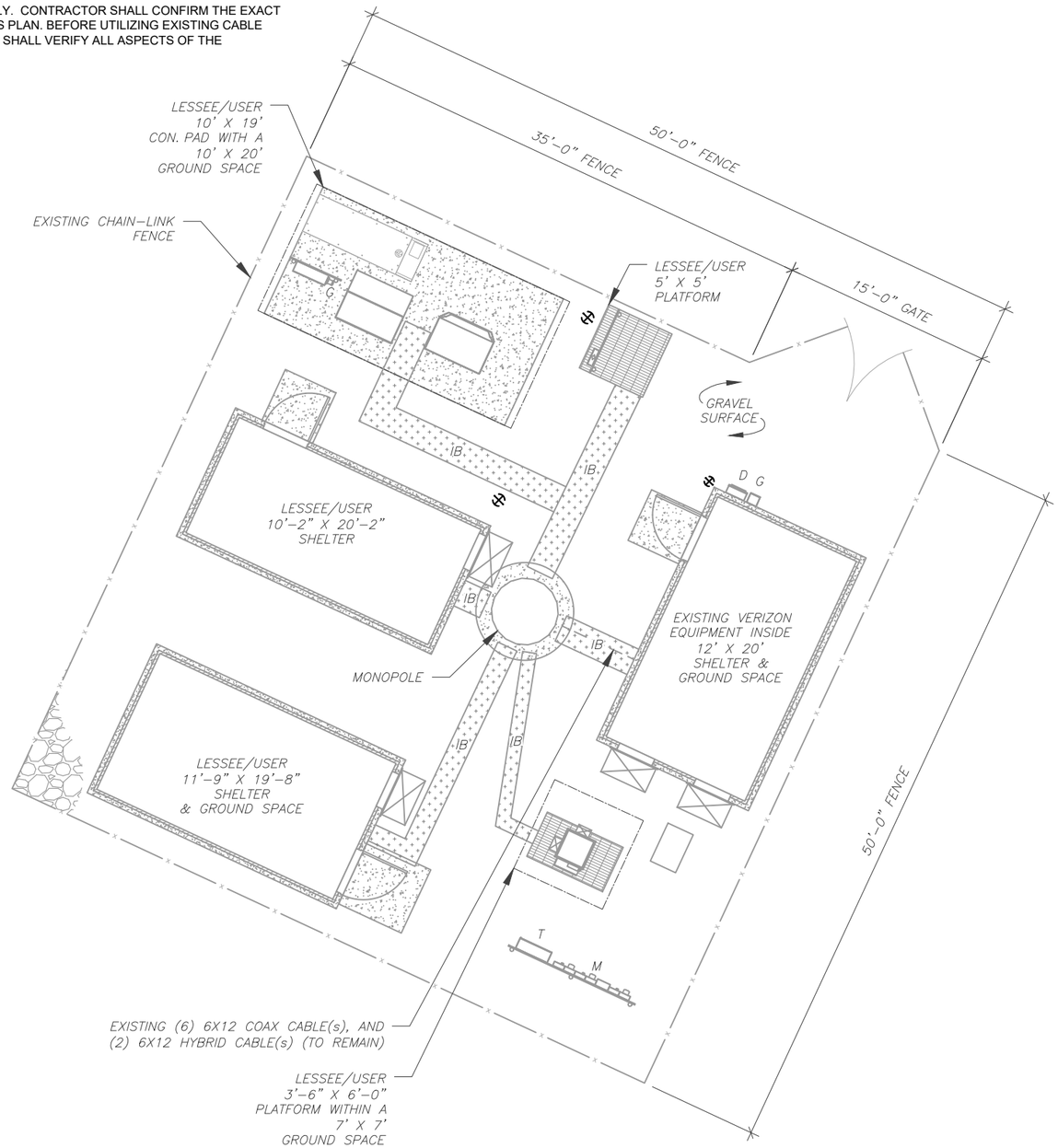
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
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
——x——	CHAINLINK FENCE



1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

N

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	ASO	06/01/21
0	FOR CONSTRUCTION	ASO	08/06/21

ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
LICENSED
PROFESSIONAL ENGINEER

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

PE# 32402 EXP: 01/31/2022

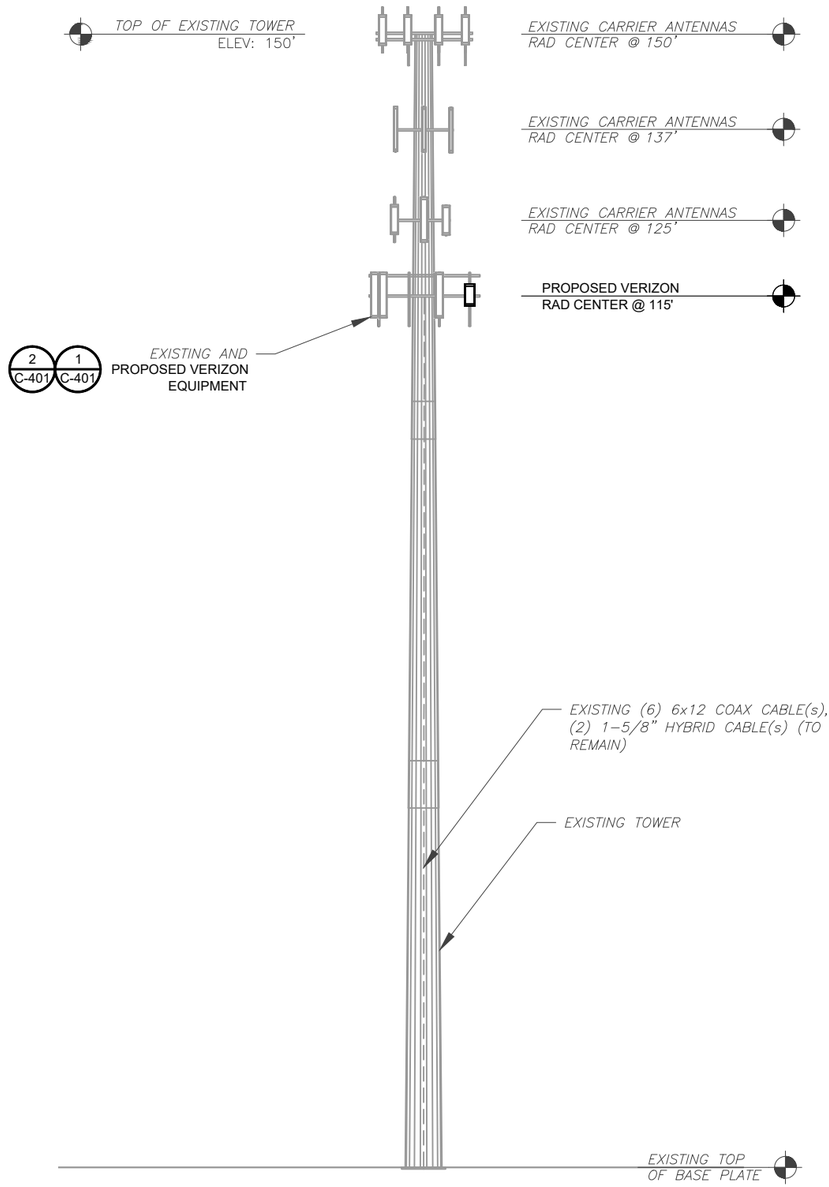
verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED JULY 2, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:

1. 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.
2. 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.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	ASO	06/01/21
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ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
LICENSED
PROFESSIONAL ENGINEER

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

PE# 32402 EXP: 01/31/2022

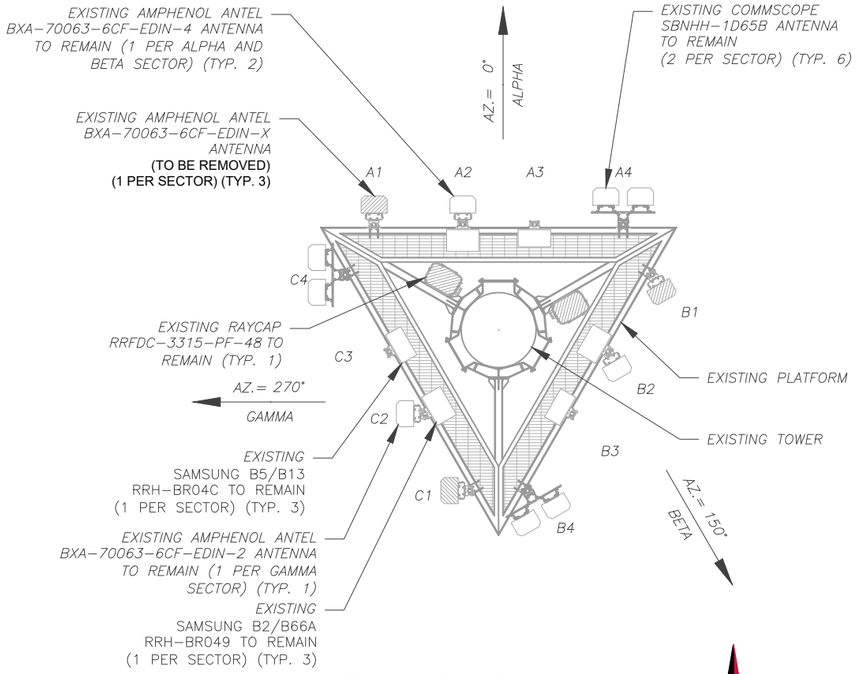
verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONSTRACTOR TO VERIFY EXISTING CONDITIONS

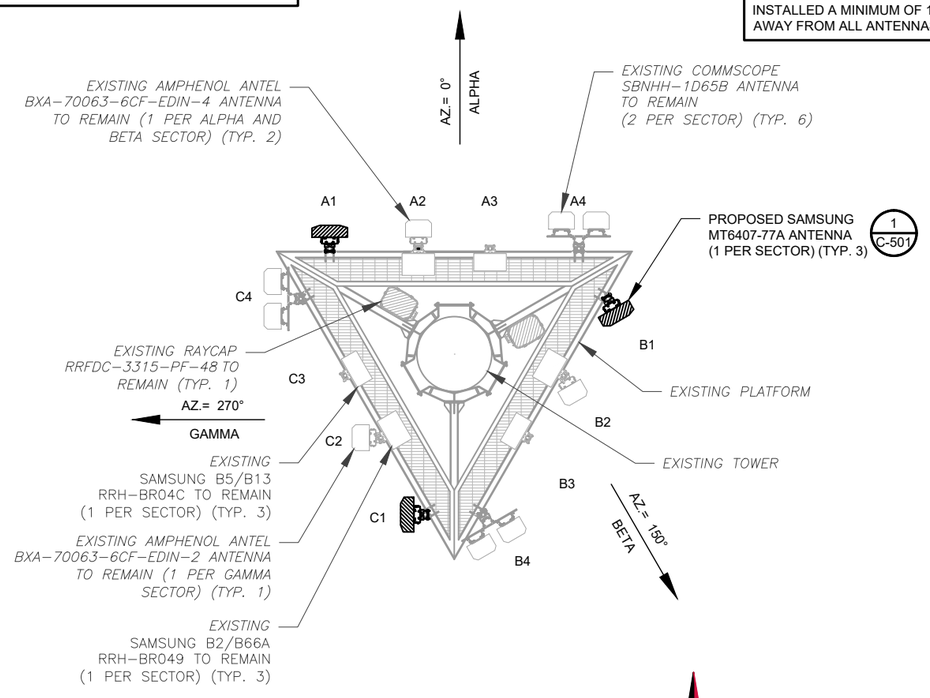


1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED JULY 2, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(s) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS



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

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	115'	0°	A1	AMPHENOL ANTEL BXA-70063-6CF-EDIN-X	CDMA 850	0/5	RMV	–	–
			A2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-4	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			A3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			A4	COMMSCOPE SBNHH-1D65B	LET 700	0/6	RMN	–	–
BETA	115'	150°	B1	AMPHENOL ANTEL BXA-70063-6CF-EDIN-X	CDMA 850	0/5	RMV	–	–
			B2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-4	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			B3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			B4	COMMSCOPE SBNHH-1D65B	LET 700	0/6	RMN	–	–
GAMMA	115'	270°	C1	AMPHENOL ANTEL BXA-70063-6CF-EDIN-X	CDMA 850	0/5	RMV	–	–
			C2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-2	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			C3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			C4	COMMSCOPE SBNHH-1D65B	LET 700	0/6	RMN	–	–

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. 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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	115'	0°	A1	SAMSUNG MT6407-77A	5G L-SUB 6	0/6	ADD	-	-
			A2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-4	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			A3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			A4	COMMSCOPE SBNHH-1D65B	LET 700	0/5	RMN	-	-
BETA	115'	150°	B1	SAMSUNG MT6407-77A	5G L-SUB 6	0/6	ADD	-	-
			B2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-4	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			B3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			B4	COMMSCOPE SBNHH-1D65B	LET 700	0/5	RMN	-	-
GAMMA	115'	270°	C1	SAMSUNG MT6407-77A	5G L-SUB 6	0/6	ADD	-	-
			C2	AMPHENOL ANTEL BXA-70063-6CF-EDIN-2	LTE 850	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	RMN
			C3	–	–	–	–	SAMSUNG B5/B13 RRH-BR04C	RMN
			C4	COMMSCOPE SBNHH-1D65B	LET 700	0/5	RMN	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RAYCAP RRFDC-3315-PF-48	–	(6) 1-5/8"	(2) 6X12	RMN
–	–	–	–	–

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RAYCAP RRFDC-3315-PF-48	ADD	(6) 1-5/8"	(2) 6X12	RMN
-	-	-	-	-

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COA# PEC.001833 EXP. 08/14/2022

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0	FOR CONSTRUCTION	ASO	08/06/21

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302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

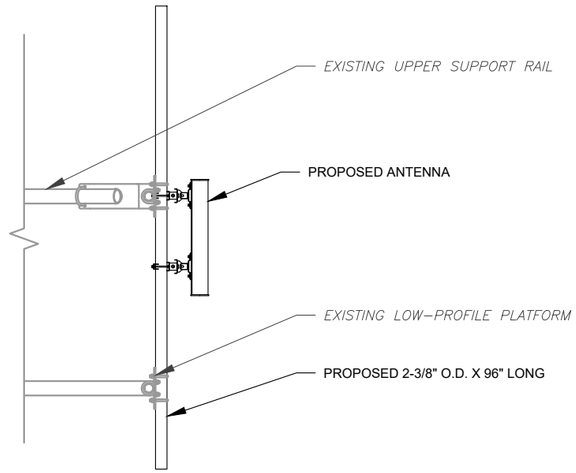
PE# 32402 EXP: 01/31/2022

verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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SEAL:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
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PROFESSIONAL ENGINEER

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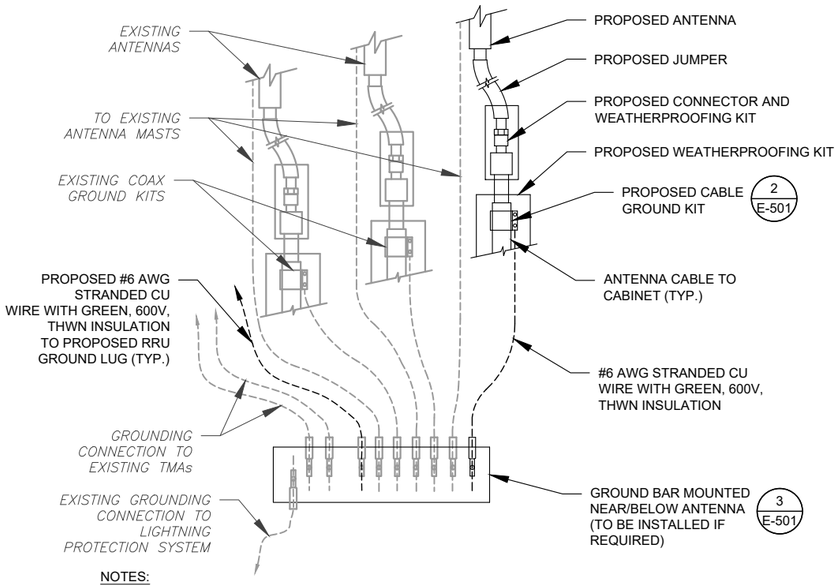
verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

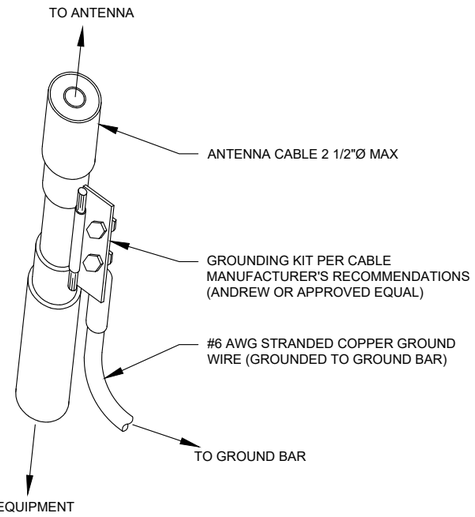


NOTES:

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.

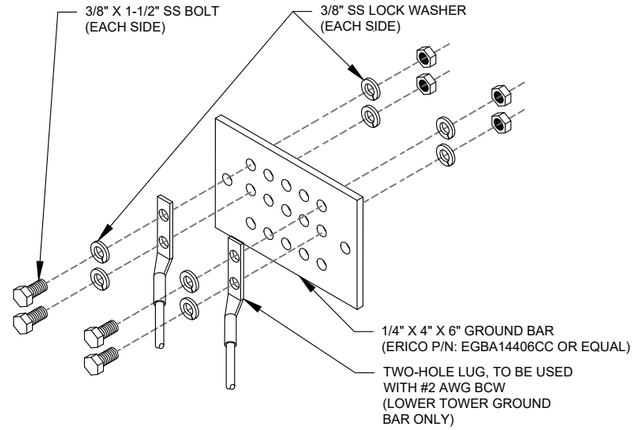


GROUND KIT NOTES:

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.

AMERICAN TOWER®

CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP. 08/14/2022

REV.	DESCRIPTION	BY	DATE
A	PRELIM	ASO	06/01/21
0	FOR CONSTRUCTION	ASO	08/06/21

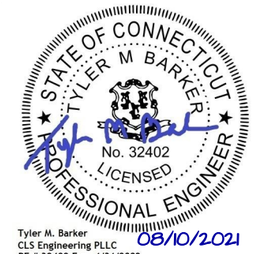
ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

VERIZON SITE NAME:
HARTFORD NORTH CT

SITE ADDRESS:
305 W. SERVICE RD.
HARTFORD, CT 06120

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
08/10/2021

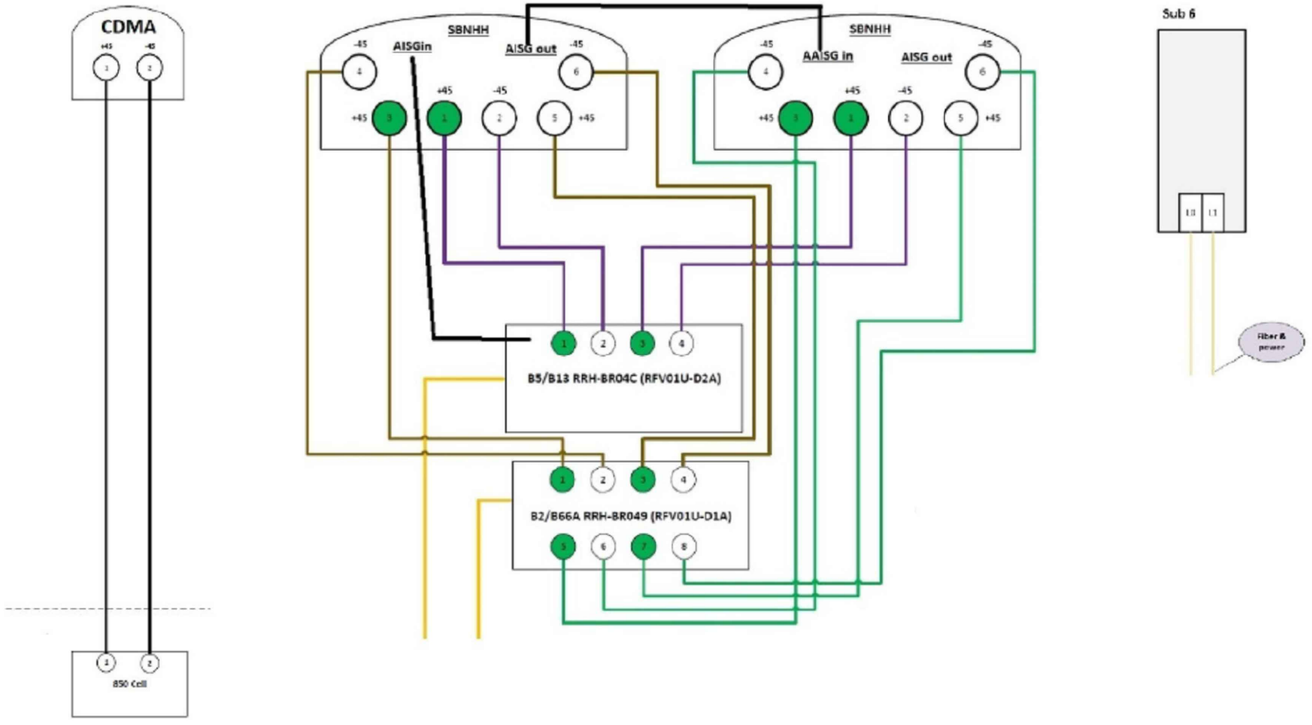
PE# 32402 EXP: 01/31/2022

verizon

DATE DRAWN:	08/06/21
ATC JOB NO:	13668983_D1
CUSTOMER ID:	HARTFORD NORTH CT
CUSTOMER #:	467518

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



1 CABINET CONFIGURATION

SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	-

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10079717
Maser Consulting Connecticut Project #: 21777452A REV 1

July 2, 2021

Site Information

Site ID:	*467518-VZW / HARTFORD N CT*
Site Name:	*HARTFORD N CT*
Carrier Name:	*Verizon Wireless*
Address:	*305 West Service Rd* *Hartford, Connecticut 06120* *Hartford County*
Latitude:	*41.798055°*
Longitude:	*-72.655833°*

Structure Information

Tower Type:	*180-Ft Self Support*
Mount Type:	*14.00-Ft Platform*

FUZE ID # 16274265

Analysis Results

Platform: **97.7% Pass**

******Contractor PMI Requirements:***
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Jared Adkins

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED
PROFESSIONAL ENGINEER
07/02/2021

1 MOUNT ANALYSIS

SUPPLEMENTAL

SHEET NUMBER: R-602

REVISION: -