21 B Street
Burlington, MA 01803
ebiconsulting.com

April 15, 2024

Juneau Historic Resources Advisory Committee
Attn: Forrest Courtney, Planner I
155 Heritage Way
Juneau, AK 99801
907-586-0753 ext. 4208
forrest.courtney@juneau.gov

Gastineau Channel Historical Society
Attn: Gary Gillette, President
P.O. Box 21264
Juneau, Alaska 99802
907-586-5338
juneauhistory@gmail.com

Subject: Invite to Comment
Juneau Harbor
230 South Franklin Street, Juneau City and Borough, AK 99801
EBI Project No.: 011039-PR

Pursuant to Section 106 of the National Historic Preservation Act, the regulations promulgated thereunder and interagency agreements developed thereto, EBI Consulting, Inc., on behalf of AT&T Mobility, LLC, provides this notice of a proposed telecommunications facility installation at the address listed above.

EBI would like to inquire if you would be interested in commenting on this proposed project. Please refer to the attached plans for additional details.

Please note that we are requesting your review of the attached information as part of the Section 106 process only and not as part of the local zoning process. We are only seeking comments related to the proposed project's potential effect to historic properties.

Please submit your comments regarding the proposed project's potential effect on historic properties to EBI Consulting, to my attention at 21 B Street, Burlington, MA 01803, or contact me via telephone at the number listed below. Please reference the EBI project number. We would appreciate your comments as soon as possible within the next 30 days.

Note that this project will be entered into the Federal Communication Commission's e106 System, which will send notifications of the project throughout the Section 106 process.

21 B Street
Burlington, MA 01803
ebiconsulting.com

Sincerely,

Chris Robinson
Architectural Historian II
978.877.3493
crobinson@ebiconsulting.com

Appendices: Maps and Project Drawings

Figure 1: Site Location Map

Juneau Harbor
230 South Franklin Street
Juneau, AK 99801

EBI Consulting

Figure 2: Topographic Map

Juneau Harbor
230 South Franklin Street
Juneau, AK 99801

at&t
Your world. Delivered.

JN3073 JUNEAU HARBOR
MARINE VIEW NSB

FA LOCATION CODE: 14738339
230 S. FRANKLIN STREET, JUNEAU, AK 99801

PROJECT INFORMATION

PROJECT DESCRIPTION:

SCOPE OF WORK FOR NEW SITE BUILD (NSB): TO BE PROVIDED BY MASTEC SCOPING

APPLICANT:

MASTEC NETWORK SOLUTIONS – ALASKA
2240 E. DOWLING ROAD
ANCHORAGE, AK 99507
253-709-0317

CODE INFORMATION:

ZONING CLASSIFICATION:	MIXED USE (MU)
BUILDING CODE:	INTERNATIONAL BUILDING CODE CURRENT CODE 2021
PARCEL NUMBER:	1C070K820010
CONSTRUCTION TYPE:	II-B
JURISDICTION:	BOROUGH OF JUNEAU
LOT SIZE:	TBD
CURRENT USE:	COMMERCIAL RETAIL OFFICE SPACE & RESIDENTIAL APARTMENTS
PROPOSED USE:	TELECOM FACILITY
POWER SERVICE:	KODIAK ELECTRIC
TELCO SERVICE:	GCI ACS

SITE LOCATION:

LATITUDE:	58° 17' 57.8112" N 58.299392
LONGITUDE:	134° 24' 17.262" W -134.404795
EXISTING ROOF DECK:	125.8'
OVERALL HEIGHT AGL:	134'-0"
BASE OF STRUCTURE AMSL:	27'

PROPERTY OWNER:

ROBBINS-HATTRUP PARTNERSHIP
9105 MENDENHALL MALL ROAD
#170A
JUNEAU, AK 98225
CONTACT: ANITA BAUER
PROPERTY MANAGER
PHONE: 907-586-4990

TOWER OWNER:

ROBBINS-HATTRUP PARTNERSHIP
9105 MENDENHALL MALL ROAD
#170A
JUNEAU, AK 98225
CONTACT: ANITA BAUER
PROPERTY MANAGER
PHONE: 907-586-4990

PERMITTING:

CONTACT: JUSTIN ABBOTT
SELECT SITE ACQUISITION LLC
206-790-4655

SITE ACQUISTION:

CONTACT: PAT HINMAN
SELECT SITE ACQUISITION LLC
425-306-2733

CONSTRUCTION:

CONTACT: TODD RICHARDSON
MASTEC NETWORK SOLUTIONS – ALASKA
2240 E. DOWLING ROAD
ANCHORAGE, AK 99507
OFFICE: 907-336-1300
MOBILE: 907-351-3886

PROJECT TEAM

PROJECT ARCHITECT:

DHD ARCHITECTURE PLLC:
DAVID H. DEAN, ARCHITECT
13424 246TH AVE SE
ISSAQUAH, WA 98027
425.503.0637 P
DAVIDHDEAN@MSN.COM

PROJECT CONSULTANT:

MASTEC NETWORK SOLUTIONS – ALASKA
2240 E. DOWLING ROAD
ANCHORAGE, AK 99507
253-709-0317

VICINITY MAP

DRIVING DIRECTIONS

JUNEAU INTERNATIONAL AIRPORT
1873 SHELL SIMMONS DR, JUNEAU, AK 99801

HEAD SOUTH ON SHELL SIMMONS DR TOWARD YANDUKIN DR 0.2 MI

TURN RIGHT ONTO YANDUKIN DR 0.9 MI

SLIGHT RIGHT ONTO EGAN DR 1.1 MI

KEEP LEFT TO STAY ON EGAN DR 6.2 MI

CONTINUE ONTO MARINE WAY 0.2 MI

SHARP LEFT ONTO S FRANKLIN ST 72 FT

SLIGHT RIGHT TO STAY ON S FRANKLIN ST
DESTINATION WILL BE ON THE LEFT
407 FT
230 S FRANKLIN ST
JUNEAU, AK 99801

DRAWING INDEX

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APPROVALS LIST

APPROVAL	DATE	SIGNATURE
MNS ENGINEERING – SSA		
MNS SCOPING MANAGER		
MNS SAQ PROJECT MANAGER		
MNS CONSTRUCTION MANAGER		
AT&T SAQ PROJECT MANAGER		
AT&T CONSTRUCTION MANAGER		

CONSTRUCTION DOCUMENTS REVIEW ROUTING ORDER. REVIEWERS MUST STAMP THEIR NAME ON THE APPROPRIATE TITLE BLOCK ABOVE.

LEGAL DESCRIPTION

PROPERTY ID: 14257
LEGAL DESCRIPTION: LOT 3 BLOCK 4, AIRPARK SUBDIVISION, KODIAK, AK.99615

SITE ACCESS REQUIREMENTS

GATE CODES:	TBD
DOOR CODES:	TBD
POINT OF CONTACT FOR FACILITIES:	
SITE TECH CONTACT – NUMBER:	TBD
SITE ACCESS TIME FRAME:	TBD

CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING
811
OR
(800) 478-3121 (ALASKA)
EMERGENCY:
CALL 911

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

at&t
Your world. Delivered.

MasTec Network Solutions

Select Site Acquisition, LLC
24009 E ALKI LANE
LIBERTY LAKE, WA 99019

DHD
ARCHITECTURE PLLC
13424 246TH AVE SE
ISSAQUAH, WA 98027
PHONE: 425.657.0552
EMAIL: davidhdean@outlook.com
HTTP://WWW.DHDARCHITECTURE.BIZ

JN3073
JUNEAU HARBOR
MARINE VIEW NSB
230 S FRANKLIN STREET
JUNEAU, AK 99801

ISSUED DATE:
01-05-2024

NO.	DATE	ISSUE BLOCK
0	05-26-22	TURF4:NSB 1C RFDS DATED 04-08-22
1	02-16-23	REV TO PENTHOUSE EQUIPMENT
2	02-23-23	ADD SCHEMATIC CONDUIT RUN INFO
3	04-19-23	ANTENNA MOUNT REVS
4	05-24-23	EQUIPMENT REVISIONS
5	01-05-24	TURF4:REV TO EQUIPMENT PLATFORM

STATE OF ALASKA 49TH
DAVID H DEAN
December 31, 2024
No.11332
REGISTERED PROFESSIONAL ARCHITECT

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.

2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.

3. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

7. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S SIGNED WET STAMP.

8. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

9. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.

10. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.

11. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

12. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

13. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

14. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

15. THE CONTRACTOR SHALL PROVIDE AT&T WIRELESS, LLC. PROPER INSURANCE CERTIFICATES NAMING AT&T WIRELESS, LLC. AS ADDITIONAL INSURED, AND AT&T WIRELESS, LLC. PROOF OF LICENSE(S) AND PE & PD INSURANCE.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL INSPECTIONS.

17. CAUTION! CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. DIAL 811

18. CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO AT&T WIRELESS, LLC. ALONG WITH REDLINED CONSTRUCTION SET.

19. CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED SET TO AT&T WIRELESS, LLC. UPON COMPLETION.

20. FOR COLLOCATION SITES: CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.

21. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.

22. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY AT&T CONSTRUCTION MANAGER.

23. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.

24. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMULATING (IN APPEARANCE) DESIGNATED EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTO SIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTO SIMULATIONS. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

GENERAL NOTES (CONT'D):

25. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS WITHIN THE ROOF SLAB - RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS-BUILT DRAWING SET" - HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.

26. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON AT&T PROJECTS. RECOMMENDED MANUFACTURE SHALL BE: PANDUIT CORP. METAL LOCKING TIES MODEL NO. MLT4S-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY TRIARC OF TACOMA, WA.

DESIGN CRITERIA:

1. THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2018

2. **DESIGN LOADS:**

-ROOF SNOW LOAD	_____	PER STRUCTURAL
-BASIC WIND SPEED	_____	PER STRUCTURAL
-WIND EXPOSURE	_____	PER STRUCTURAL

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.

2. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE IBC 2021. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS.

TYPE OF CONSTRUCTION	28 DAY STRENGTHS (f'c)	W/C RATIO	MINIMUM CEMENT CONTENT PER CUBIC YARD
A. SLABS ON GRADE TOPPING SLABS CONCRETE PIERS	3,000 PSI	≤ .45	5 1/2 SACKS
B. ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .45	6 1/2 SACKS
C. CONCRETE WALLS	4,000 PSI	≤ .45	6 1/2 SACKS

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II U.N.O.

3. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.

4. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989 AND C1017. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE IBC 2021.

5. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

6. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH AC1 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

8. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.

9. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.

10. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

- FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE		3"
- FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(#6 BARS OR LARGER)	2"
	(#5 BARS OR SMALLER)	1 1/2"
- SLABS AND WALLS (INTERIOR FACE)		3/4"

11. BARS SHALL BE SUPPORTED ON CHAIRS OR DOBIE BRICKS.

12. ANCHOR BOLTS TO CONFORM TO ASTM A307.

13. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).

14. ALL EXPANSION ANCHORS TO BE HILTI BRAND. ADHESIVE ANCHORS REQUIRE TESTING TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER.

STRUCTURAL STEEL NOTES:

1. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.

2. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) SHALL BE BASED ON THE A.I.S.I. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION. SUPERVISION SHALL BE IN ACCORDANCE WITH IBC 2021 CHAPTER 22, BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE CONSULTANT. THE CONSULTANT SHALL BE FURNISHED WITH A COPY OF ALL INSPECTION REPORTS AND TEST RESULTS.

3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	
A. WIDE FLANGE SHAPE	ASTM A992, Fy 50 KSI
B. OTHER SHAPE, PLATES AND ROD	ASTM A36, Fy 36 KSI
C. PIPE COLUMNS	ASTM A53, Fy 35 KSI
D. STRUCTURAL TUBING	ASTM A500, Fy 46 KSI
E. ANCHOR BOLTS	ASTM A307
F. CONNECTION BOLTS	ASTM A325

4. ALL MATERIAL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION PER A123/A123M-00.

5. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.I. AND AWS STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70 XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS.

6. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

7. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA.) AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

8. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.

9. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE DESIGN & CONSTRUCTION SPECIFICATION AND IN ACCORDANCE WITH ASTM A36 UNLESS NOTED OTHERWISE.

10. ALL WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.

11. TOUCH UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

TOWER/POLE NOTES:

1. VERIFICATION THAT THE PROPOSED TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.

2. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ABBREVIATED ROOF TOP SAFETY PROCEDURES (WHEN APPLICABLE):

FALL PROTECTION METHODS AND EQUIPMENT
ROOF TOP INSTALLATIONS

1. FOR WORK IS BEING PERFORMED WITHIN 25' OF AN UNPROTECTED ROOF EDGE, THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERVE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS.

2. SAFETY MONITOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E., BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES. THE SAFETY MONITOR MUST BE ON THE SAME ROOF AND WITHIN VISUAL AND VERBAL DISTANCE OF THE CONSTRUCTION WORKERS.

3. CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6' OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE.

4. SAFETY LINE SHALL BE MINIMUM ½" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS.

5. SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE.

6. SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND.

7. SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS.

8. MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES, INCLUDING:

   INSPECTION OF CONSTRUCTION AREA FOR HAZARDS
   USE OF AN INSPECTION CHECKLIST
   INTERVIEWING COWORKERS REGARDING SAFETY CONCERNS
   REPORTING AND DOCUMENTING ANY HAZARDS
   REPORTING HAZARDS TO THE SAFETY COMMITTEE FOR CONSIDERATION
   POSTING RESULTS OF INSPECTION AND ANY ACTION TAKEN
   RECEIVING AN UNBIASED REVIEW OF ONE'S OWN WORK AREA BY ANOTHER COWORKER SAFETY REPRESENTATIVE

REFER TO ROOFTOP WORK AREA SAFETY PROTOCOL
NATIONAL ASSOCIATION OF TOWER ERECTORS 2000 PUBLICATION

REFERENCED OSHA REGULATION/STANDARDS SHALL BE REVIEWED BY TOWER ERECTORS,
EQUIPMENT INSTALLERS, AND TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS
29 CFR 1926.500 - SCOPE, APPLICATION, AND DEFINITIONS
29 CFR 1926.501 - DUTY TO HAVE FALL PROTECTION
19 CFR 1926.502 - FALL PROTECTION SYSTEMS CRITERIA AND PRACTICES

SYMBOLS AND ABBREVIATIONS

A/C	AIR CONDITIONING	LBS	POUNDS
AGL	ABOVE GRADE LEVEL	MAX	MAXIMUM
APPROX	APPROXIMATELY	MECH	MECHANICAL
		MTL	METAL
BLDG	BUILDING	MFR	MANUFACTURE
BLK	BLOCKING	MGR	MANAGER
		MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CLR	CLEAR		
CONC	CONCRETE	NA	NOT APPLICABLE
CONST	CONSTRUCTION	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	NS	NEAR SIDE
		NTS	NOT TO SCALE
DBL	DOUBLE		
DIA	DIAMETER	OC	ON CENTER
DIAG	DIAGONAL	OD	OUTSIDE DIAMETER
DN	DOWN		
DET	DETAIL	PLYWD	PLYWOOD
DWG	DRAWING	PROJ	PROJECT
		PROP	PROPERTY
EA	EACH	PT	PRESSURE TREATED
EL	ELEVATION	REQ	REQUIRED
ELEC	ELECTRICAL	RM	ROOM
EQ	EQUAL	RO	ROUGH OPENING
EQUIP	EQUIPMENT		
EXT	EXTERIOR	SHT	SHEET
		SIM	SIMILAR
FIN	FINISH	SPEC	SPECIFICATION
FLUOR	FLUORESCENT	SF	SQUARE FOOT
FLR	FLOOR	SS	STAINLESS STEEL
FS	FAR SIDE	STL	STEEL
FT	FOOT	STRUCT	STRUCTURAL
		STD	STUD
GA	GAUGE	SUSP	SUSPENDED
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	THRU	THROUGH
GRND	GROUND	TNNG	TINNED
GYP BD	GYPSUM WALL BOARD	TYP	TYPICAL
HORZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HR	HOUR		
HT	HEIGHT	VERT	VERTICAL
HVAC	HEATING VENTILATION AIR CONDITIONING	VIF	VERIFY IN FIELD
		W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IN	INCH	WP	WATER PROOF
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		
IBC	INTERNATIONAL BUILDING CODE		

T T	TELEPHONE
P P	POWER
	GROUND WIRE
COAX COAX	COAXIAL CABLE
	ANTENNA
℄	CENTERLINE
(E)	EXISTING
X X-X	DETAIL NUMBER / SHEET NUMBER

TRANSMITTING NOTES:

APPLICABLE BUILDING CODES AND STANDARDS:

- ALL TRANSMITTING ANTENNAS WILL BE INSTALLED IN A MANNER AS SET FORTH BY THE MANUFACTURER AND BY THE FEDERAL COMMUNICATIONS COMMISSION AS MEETING THE CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARD FOR NONIONIZING ELECTROMAGNETIC RADIATION (NIER).

- TELECOMMUNICATIONS INDUSTRY ASSOCIATION, (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES.

- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1000 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT.

- IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE").

- TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

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JN3073
JUNEAU HARBOR
MARINE VIEW NSB
230 S FRANKLIN STREET
JUNEAU, AK 99801

ISSUED DATE:
01-05-2024

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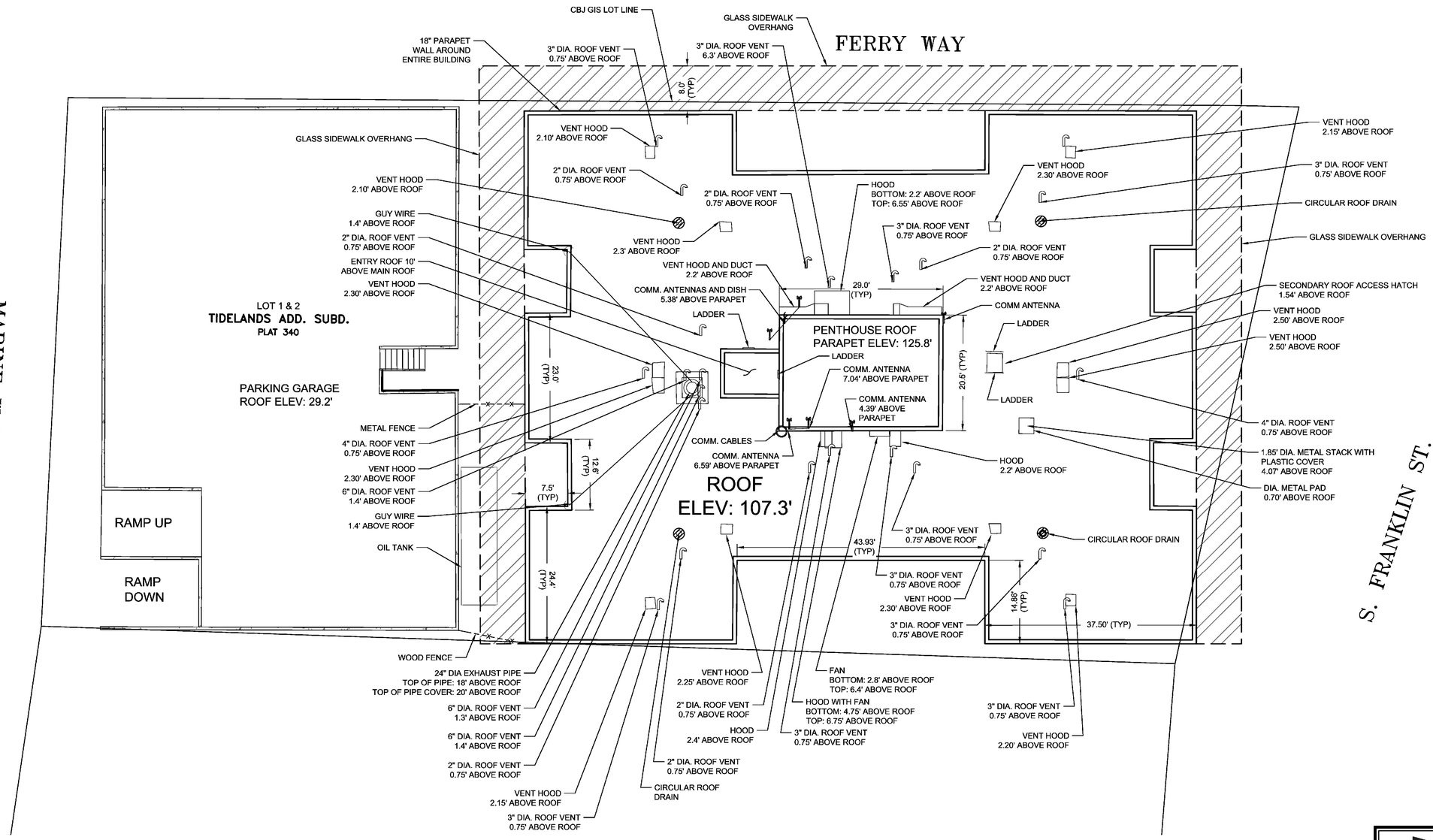
1	01-05-24	TURF4:REV TO EQUIPMENT PLATFORM
0		

STATE OF ALASKA
49 TH
DAVID H DEAN
December 31, 2024
No. 11332
REGISTERED PROFESSIONAL ARCHITECT

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
N-1



NOTES:

1. THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT LOCATIONS OF THE ROOF/PENTHOUSE AND ALL PROTRUDING EQUIPMENT ON THE ROOF OF THE MARINEVIEW APARTMENTS.
2. THE FIELD WORK FOR THIS SURVEY WAS CONDUCTED IN SEPTEMBER, 2022.
3. THE HORIZONTAL POSITIONS OF SURVEY CONTROL POINTS WERE ESTABLISHED WITH A COMBINATION OF HIGH PRECISION STATIC GPS AND CONVENTIONAL TOTAL STATION METHODS.
4. PROPERTY LINES DERIVED FROM CITY AND BOROUGH OF JUNEAU PUBLISHED GIS DATA. PROPERTY LINES SHOWN ARE GRAPHICAL REPRESENTATIONS AND ARE NOT INTENDED TO REPRESENT ACTUALLY PROPERTY LOCATIONS.
5. MARINE VIEW ROOF ELEVATION DERIVED FROM AVERAGED SHOT POINTS.
   ROOF ELEVATION = 107.3'
6. ELEVATOR SHAFT BUILDING (PENTHOUSE ROOF) DERIVED FROM AVERAGE SHOT ELEVATIONS.
   PENTHOUSE ROOF ELEVATION = 124.3'

HORIZONTAL CONTROL STATEMENT

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS THE NAD83 ALASKA STATE PLANE ZONE 1 COORDINATES FOR THE CP-1, SET SPIKE. THESE NAD83 ALASKA STATE PLANE ZONE 1 COORDINATES ARE 2,362,083.82 NORTH, 2,541,967.25 EAST, U.S. SURVEY FEET (58°17'55.3695" NORTH, 134°24'53.8941" WEST). CP-1 IS LOCATED ON THE NW CORNER OF "TRACY'S CRAB SHACK" PARKING LOT.

VERTICAL CONTROL STATEMENT

VERTICAL DATUM BASED ON NAVD88 ELEVATIONS EXPRESSED IN US FEET. THE BASE OF ELEVATION IS CONTROL POINT CP-1, A SET SPIKE, HAVING AN ELEVATION OF 22.25'. THE ELEVATIONS FOR ALL OTHER POINTS WERE DETERMINED USING REAL TIME KINEMATIC SURVEYING TECHNIQUES AND DERIVED USING GEOID12B.

10 5 0 10 20 30
SCALE IN FEET

RESPEC

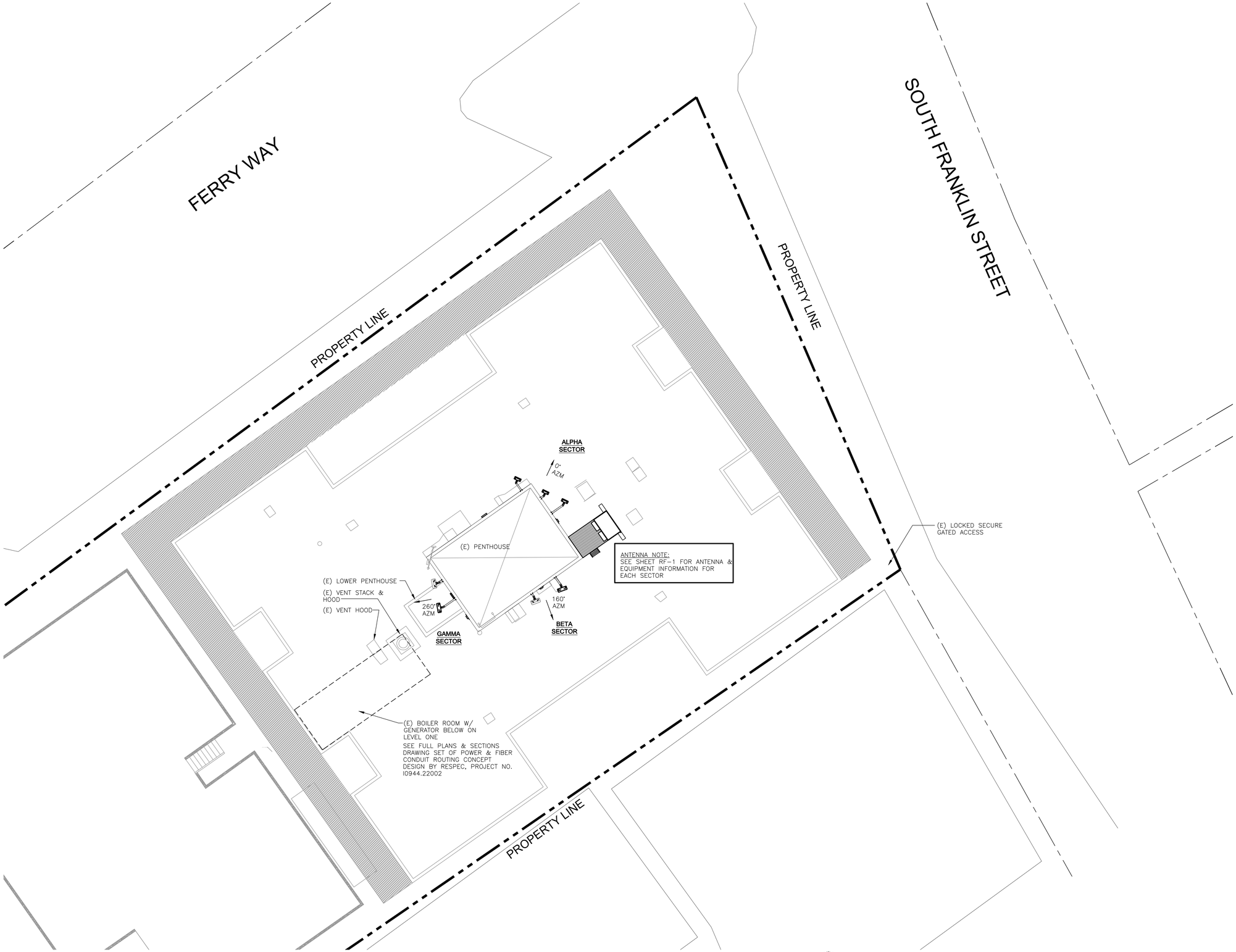
NAME OF SURVEYOR:
RESPEC
1028 AURORA DR.
FAIRBANKS, AK 99709
PHONE: 907.452.1414
FAX: 907.4562707
AECC163270

ROOF SURVEY
MARINE VIEW APARTMENTS

LOCATED WITHIN
LOTS 1 & 2, BLOCK 82
TIDELANDS ADDITION
RECORDED PLAT 340
JUNEAU RECORDING DISTRICT, JUNEAU, AK
CITY AND BOROUGH OF JUNEAU, JUNEAU, AK

OWNER:
MasTec Network Solutions
2240 E. DOWLING RD.
ANCHORAGE, AK 99515
907.336.1300

SCALE	1" = 10'
SURVEYOR	EV
DRAWN	CES
CHECKED	KHE
DATE	9/30/2022
PROJECT NO.	I0944.22001
SHEET NUMBER	1 OF 1



SITE PLAN

SCALE: 1" = 10'-0"

NORTH

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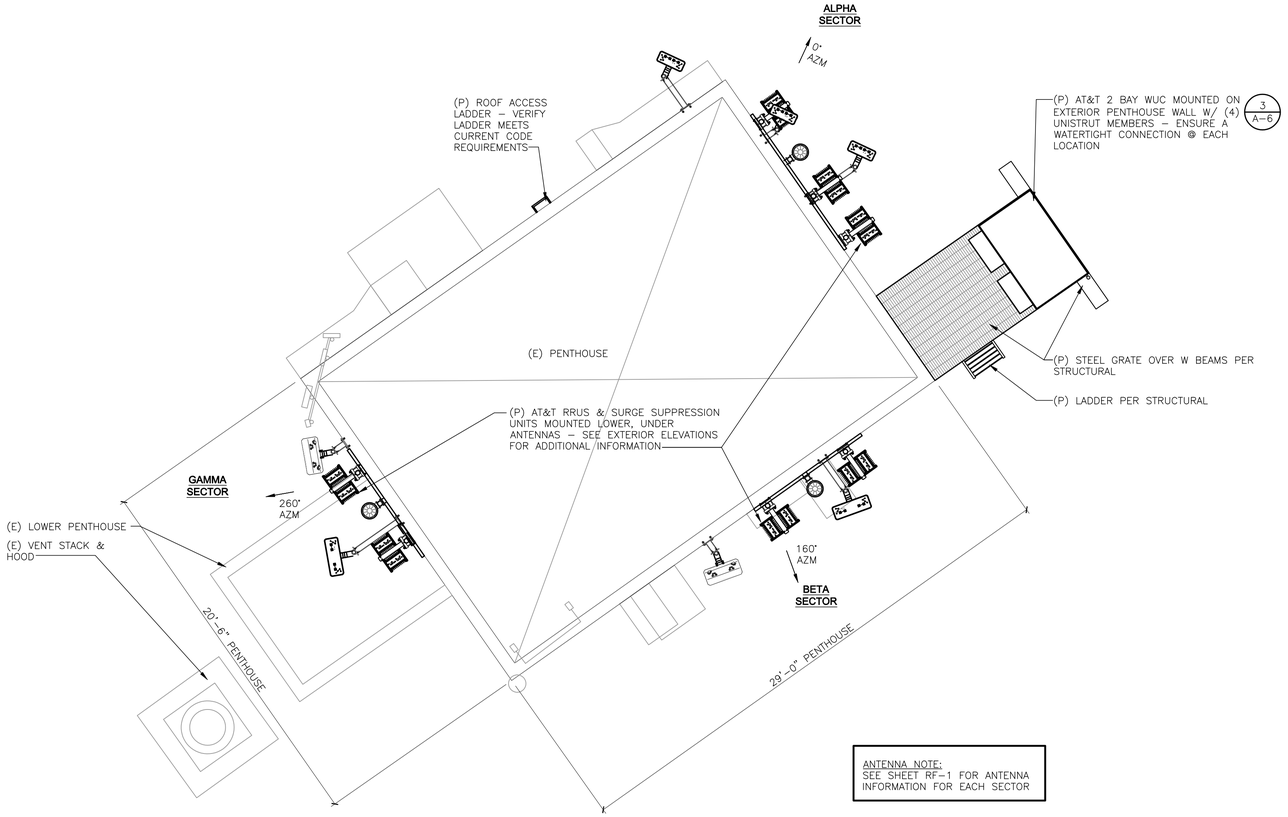
STATE OF ALASKA
49TH
DAVID H DEAN
December 31, 2024
No.11332
REGISTERED PROFESSIONAL ARCHITECT

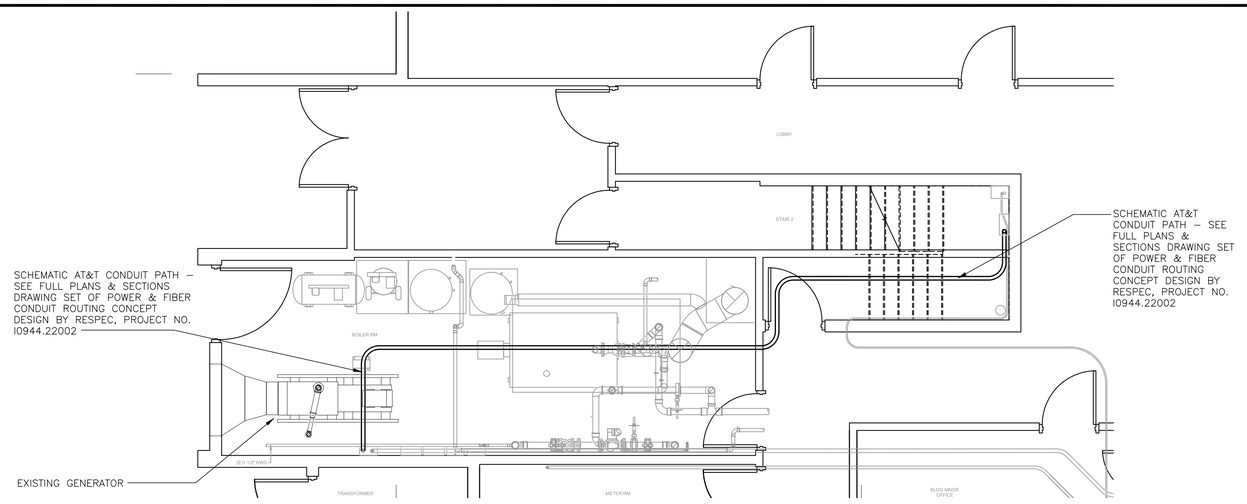
SHEET TITLE:
SITE PLAN

SHEET NUMBER:
A-1



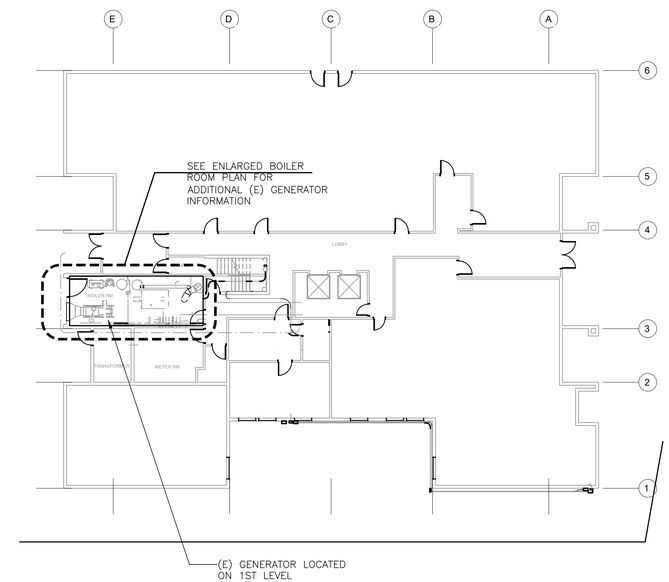
ENLARGED ROOF PLAN

SCALE: 1/4" = 1'-0"



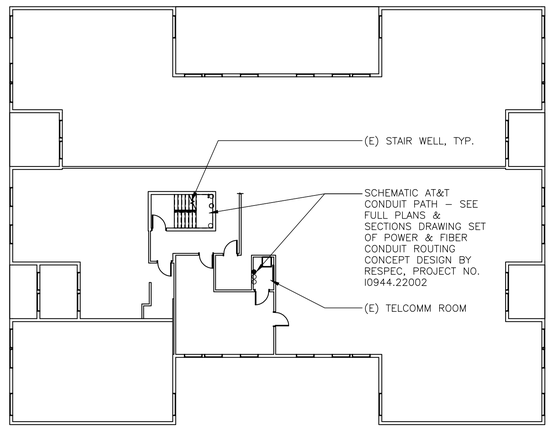
ENLARGED BOILER ROOM PLAN LEVEL 1

SCALE: 1/2" = 1'-0"



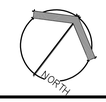
1ST FLOOR BUILDING PLAN

N.T.S.



2ND FLOOR BUILDING PLAN

N.T.S.



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STATE OF ALASKA
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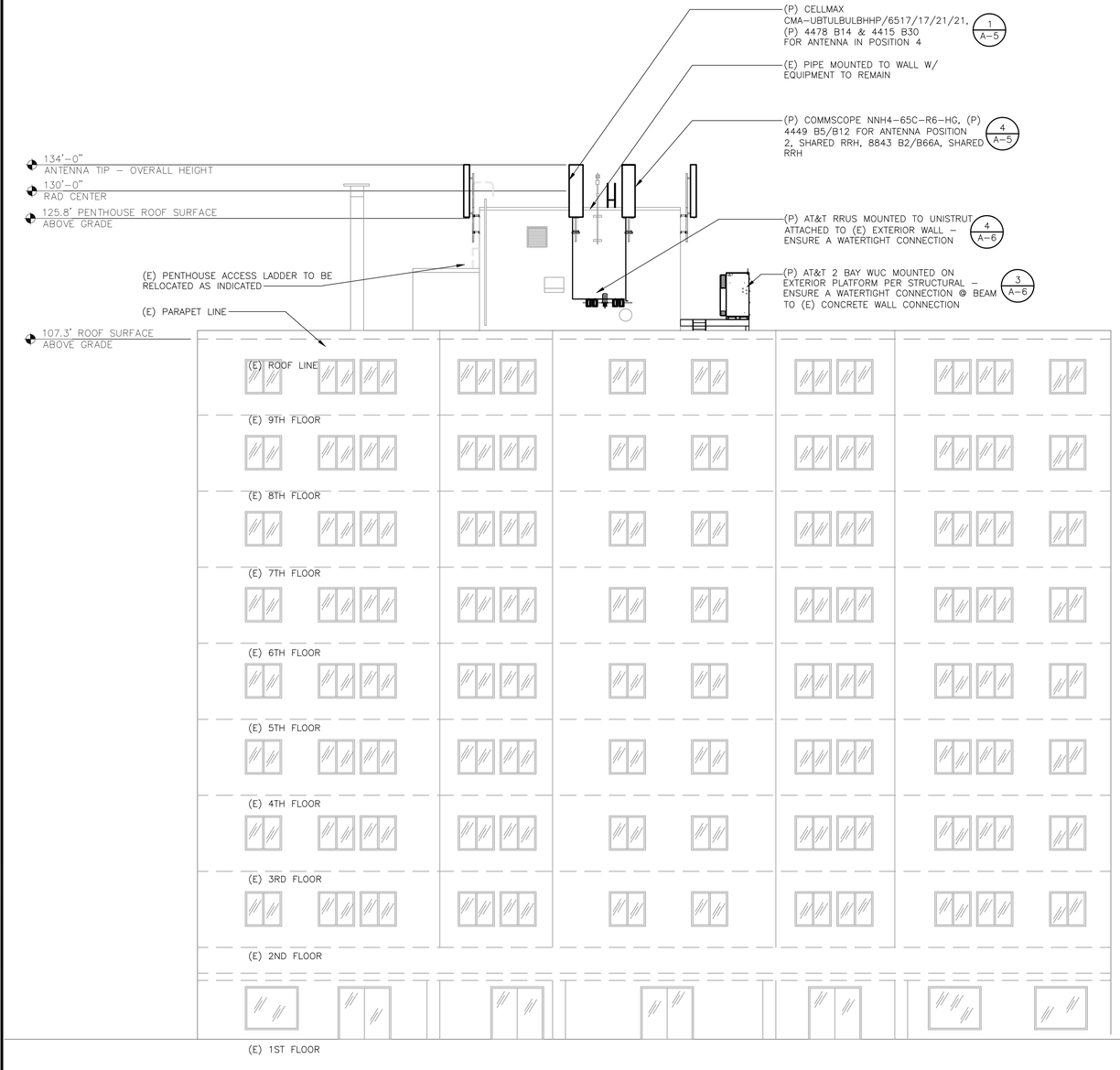
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A-2

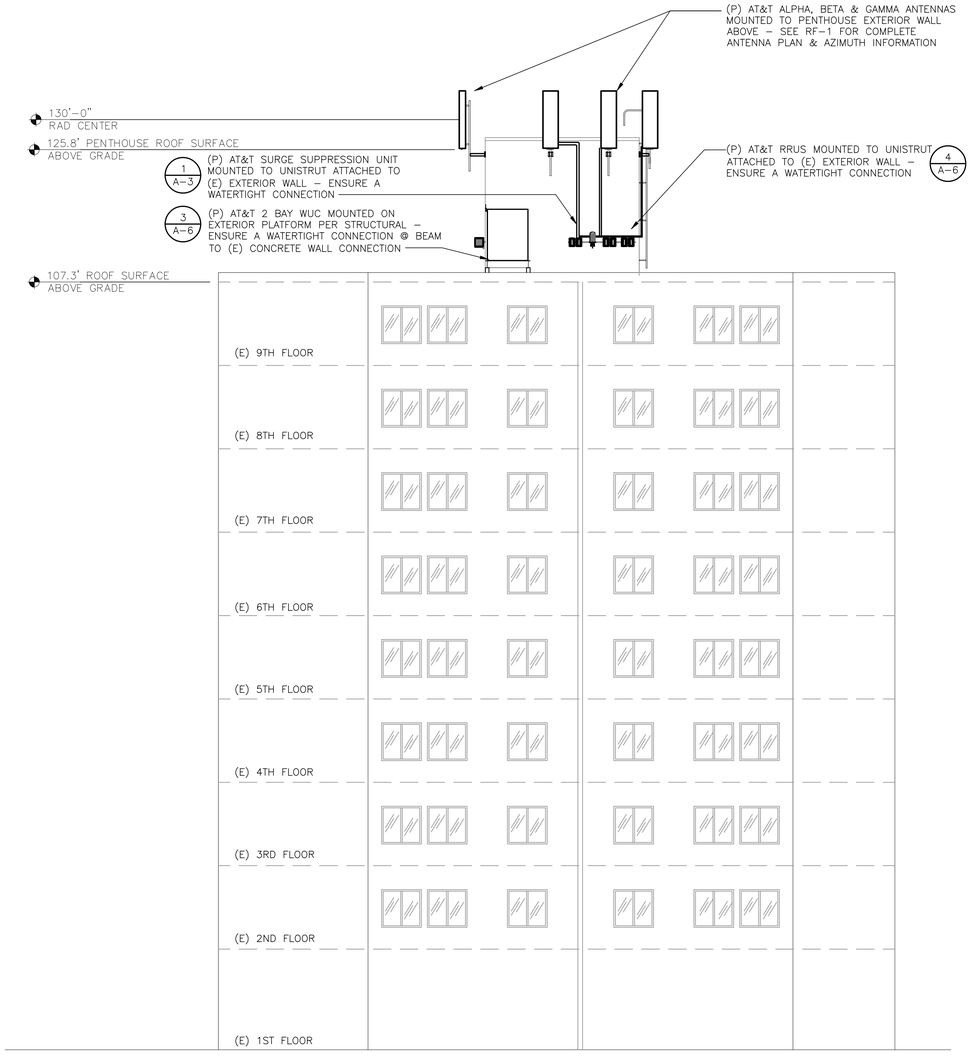


EAST EXTERIOR ELEVATION

SCALE: 1" = 20'-0"

NOTE:
RRUS & SURGE SUPPRESSION UNIT TO BE MOUNTED TO EXTERIOR WALL W/ UNISTRUT - ENSURE WATERTIGHT CONNECTION @ ALL LOCATIONS. ALL EQUIPMENT TO BE ACCESSIBLE - 6' TALL MOUNTING MAX.

USE 8", 24" OR 36" STAND-OFF WALL MOUNT TO LINE UP ANTENNA FACES AS MUCH AS POSSIBLE AS NEEDED



NORTH EXTERIOR ELEVATION (ALPHA)

SCALE: 1" = 20'-0"

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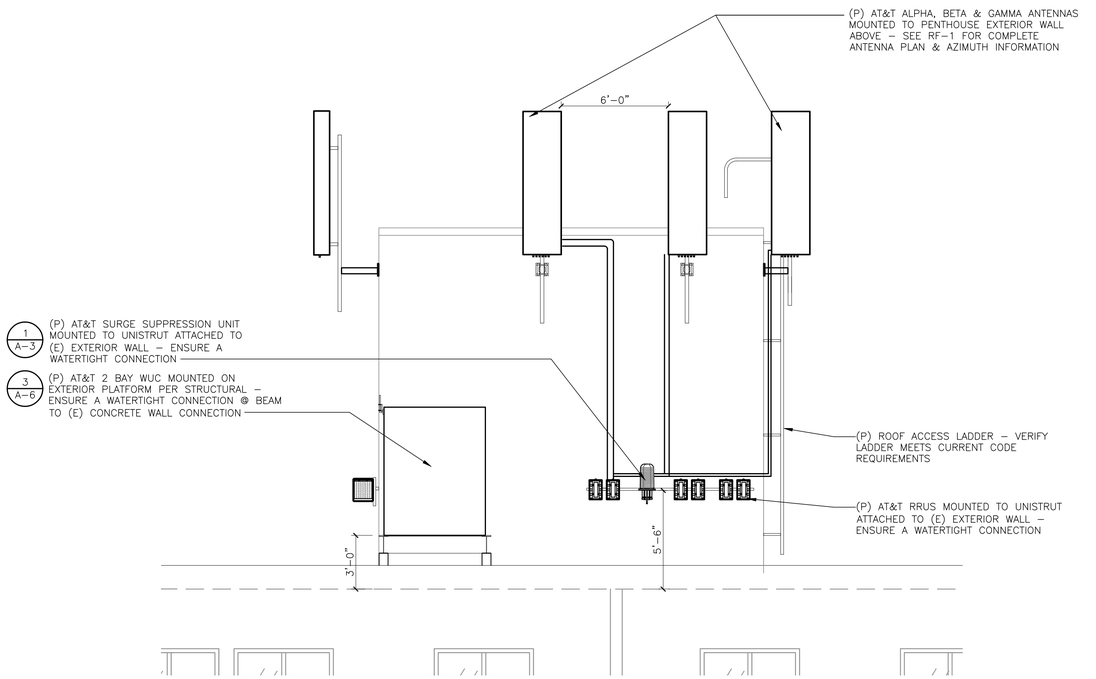
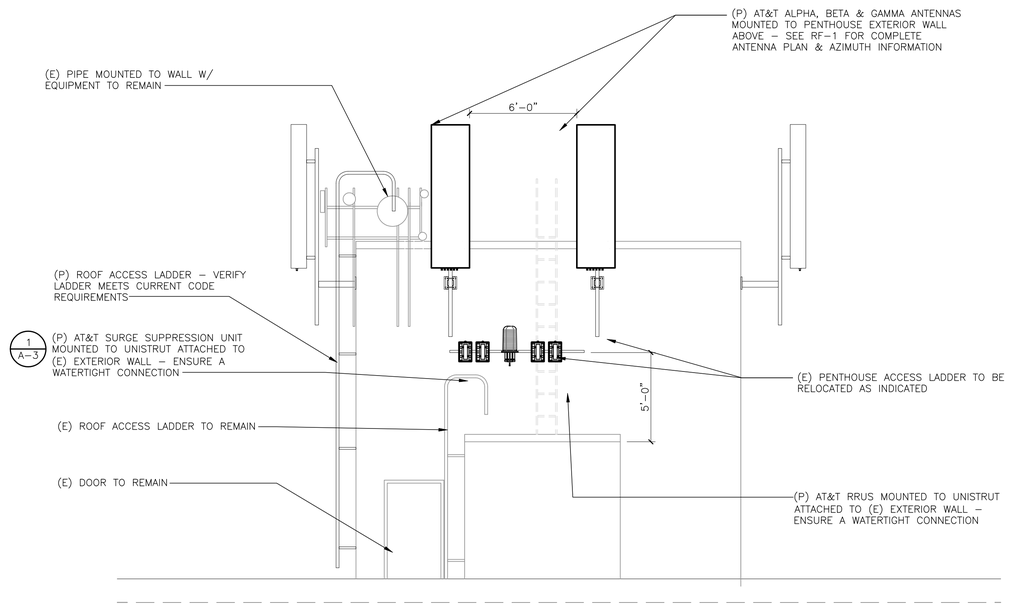
EXTERIOR ELEVATIONS

SHEET NUMBER:
A-2.2



NORTH EXTERIOR ELEVATION (ALPHA)

SCALE: 1/4" = 1'-0"



SOUTH EXTERIOR ELEVATION (GAMMA)

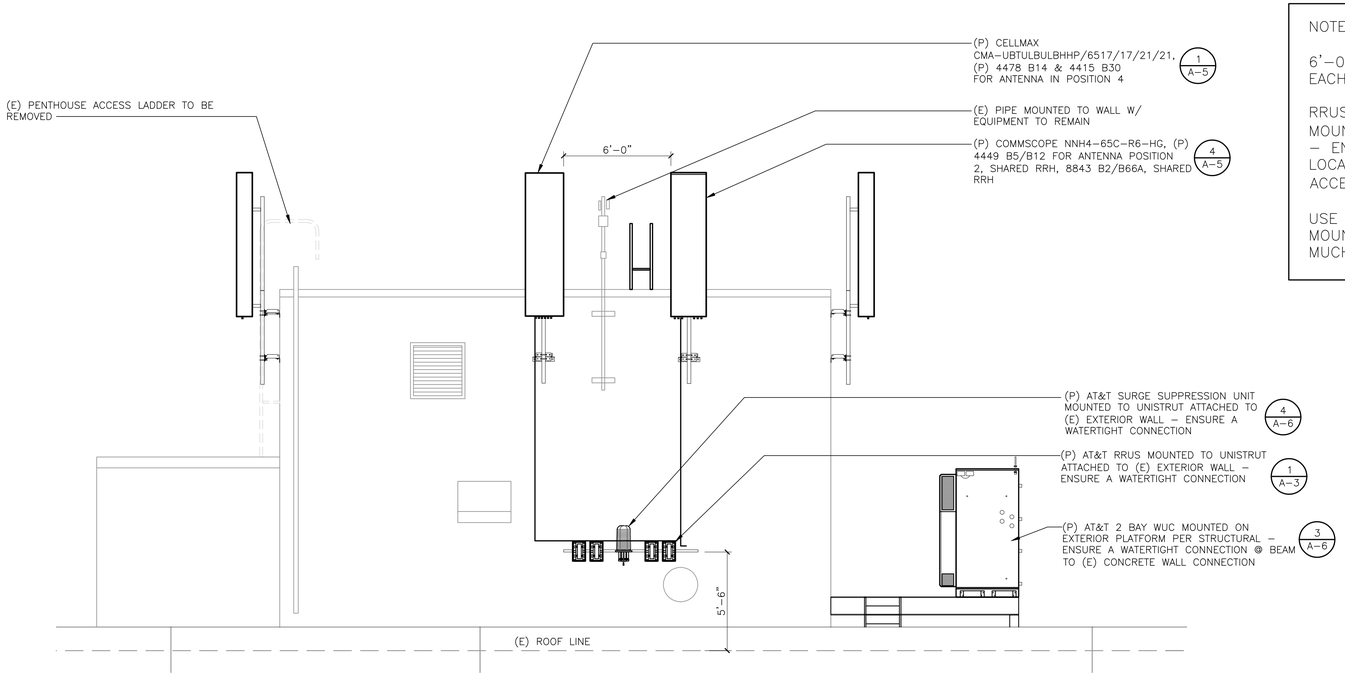
SCALE: 1/4" = 1'-0"

NOTE:

6'–0 TYPICAL ANTENNA SEPARATION @ EACH SECTOR

RRUS & SURGE SUPPRESSION UNIT TO BE MOUNTED TO EXTERIOR WALL W/ UNISTRUT – ENSURE WATERTIGHT CONNECTION @ ALL LOCATIONS. ALL EQUIPMENT TO BE ACCESSIBLE – 6' TALL MOUNTING MAX.

USE 8", 24" OR 36" STAND–OFF WALL MOUNT TO LINE UP ANTENNA FACES AS MUCH AS POSSIBLE AS NEEDED



EAST EXTERIOR ELEVATION (BETA)

SCALE: 1/4" = 1'–0"

EXISTING ELEVATION (GAMMA)

SCALE: 1/4" = 1'–0"

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STATE OF ALASKA
49 TH
DAVID H DEAN
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SHEET TITLE:
ENLARGED EXTERIOR ELEVATIONS

SHEET NUMBER:
A-2.3

RRUS 4449 B5, B12

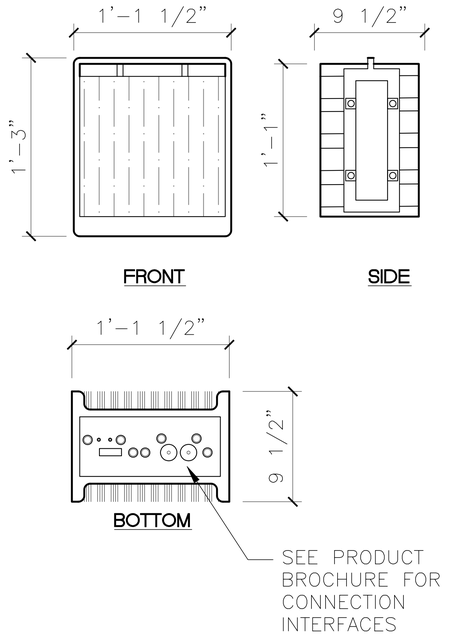
DIMENSIONS (WITH SUNSHIELD)
WIDTH: 14.96 in
HEIGHT: 13.19 in
DEPTH: 9.25 in
WEIGHT: 70 lbs

4TX/4RX PER BAND
320W OF TOTAL POWER
4x40 W PER BAND OR 2x60 W & 2x80 W FOR B66A
LTE: MAX OF 3 CARRIERS PER PORT (DL), MAX 3 CARRIERS PER PORT (UL)

–48 VDC 3–WIRE (2–WIRE W/ ADAPTER)

– ADAPTER IS REQUIRED FOR 2–WIRE CONNECTION
– SHIELDED DC CABLE IS REQUIRED
› GROUND CABLE SIZE = 2AWG

RRH NOTE:
ALL RRH TO BE MOUNTED A MINIMUM OF 18" BEHIND ANTENNA – 16" MINIMUM RRH SEPARATION FROM OTHER RRH (STACKED OR SIDE BY SIDE)



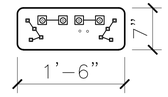
4 / A–3 RRUS B5/B12 4449

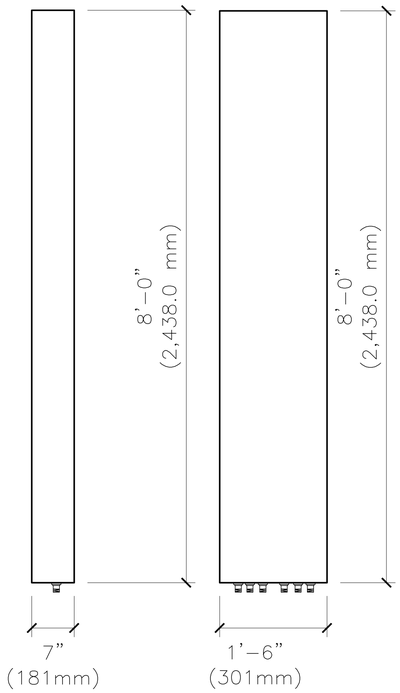
1/2" = 1'–0"

COMMSCOPE SBNHH-1D45C
6-PORT SECTOR ANTENNA

WEIGHT; 79.6 lbs (36.1 kg)
WIND LOAD; 1460 N @ 150 km/h
328.2 lbf @ 150 km/h

INCLUDED PRODUCTS
BSAMNT–1 WIDE PROFILE ANTENNA
DOWNTILT MOUNTING KIT FOR 2.5–4.5" OD ROUND MEMBERS





3 / A–3 ANTENNA SPEC

NTS

RRUS 8843 B2, B66A

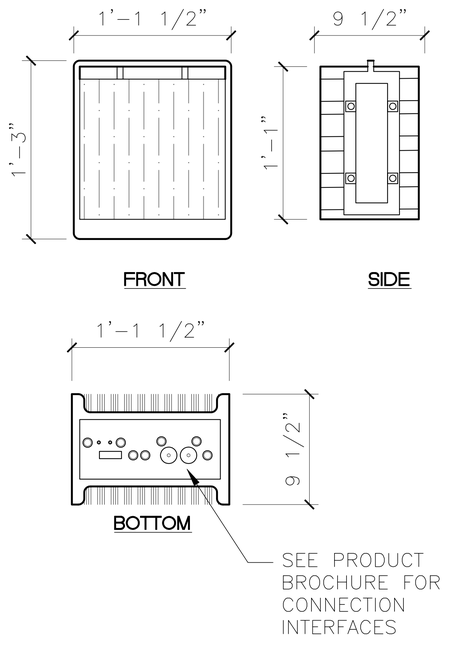
DIMENSIONS (WITH SUNSHIELD)
WIDTH: 14.96 in
HEIGHT: 13.19 in
DEPTH: 9.25 in
WEIGHT: 70 lbs

4TX/4RX PER BAND
320W OF TOTAL POWER
4x40 W PER BAND OR 2x60 W & 2x80 W FOR B66A
LTE: MAX OF 3 CARRIERS PER PORT (DL), MAX 3 CARRIERS PER PORT (UL)

–48 VDC 3–WIRE (2–WIRE W/ ADAPTER)

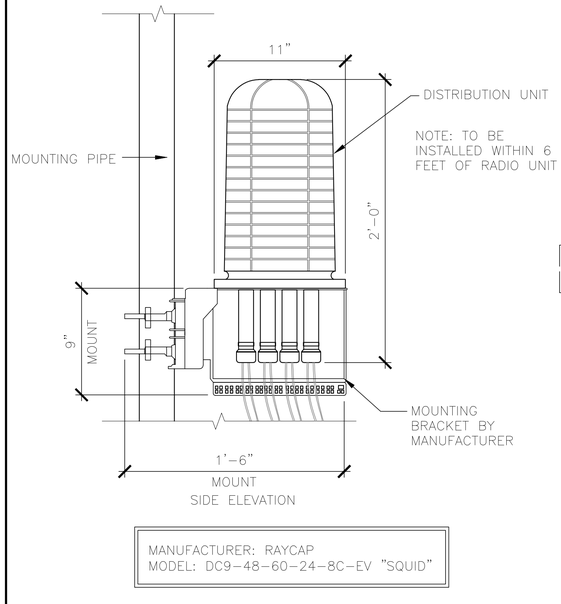
– ADAPTER IS REQUIRED FOR 2–WIRE CONNECTION
– SHIELDED DC CABLE IS REQUIRED
› GROUND CABLE SIZE = 2AWG

RRH NOTE:
ALL RRH TO BE MOUNTED A MINIMUM OF 18" BEHIND ANTENNA – 16" MINIMUM RRH SEPARATION FROM OTHER RRH (STACKED OR SIDE BY SIDE)



2 / A–3 RRUS 8843 B2/B66A

NOT TO SCALE



USE 24–PAIR FIBER TRUNK CAPABLE OF TERMINATING 3 DC TRUNK CABLES – SOME PROJECTS ONLY REQUIRE 2

SIZE: 18.28"x10.24"x31.4"
WEIGHT: 16.0lbs MOUNT 10.2lbs TOTAL 26.3 lbs

WIND LOADING: 150 MPH
195 MPH GUST

1 / A–3 SURGE SUPPRESSION UNIT

NTS

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STATE OF ALASKA 49TH
DAVID H DEAN
December 31, 2024
No. 11332
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SHEET TITLE: EQUIPMENT DETAILS

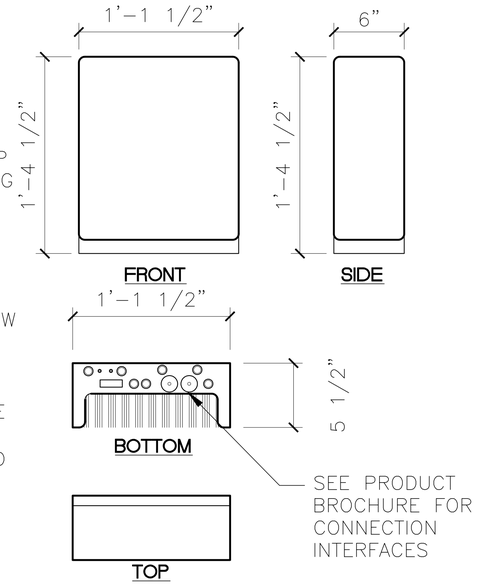
SHEET NUMBER: A–3

RRUS 4415 B30

DIMENSIONS (WITH SUNSHIELD)
WIDTH: 13.4 in
HEIGHT: 16.5 in
DEPTH: 5.9 in
WEIGHT: 46 lbs

CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS. INSTALL 2 SFP AND CONNECT 2 FIBER PAIR TO THE RRUSS 4415 DURING INITIAL INSTALL.
ONLY USE ERICSSON SUPPLIED AND APPROVED SFPS RDH10265/25
2 EXTERNAL ALARM INPUTS
MAX WIND LOAD @ 50M/SEC = 260N
BREAKER SIZE = 25A, DC POWER CONSUMPTION = 670 W (FOR DIMENSIONING)
200MM HORIZONTAL SEPARATION REQUIRED FOR SIDE BY SIDE MOUNTING
200MM SEPARATION REQUIRED FROM ANTENNA BACKPLANE TO RADIO
400MM VERTICAL OUTDOOR/INDOOR SEPARATION REQUIRED BETWEEN 2 RADIOS
500MM VERTICAL SEPARATION BELOW ANTENNA
MIN, MAX DC CABLE SIZE FROM SQUID TO RADIO = 10,8 AWG

RRH NOTE:
ALL RRH TO BE MOUNTED A MINIMUM OF 18" BEHIND ANTENNA – 16" MINIMUM RRH SEPARATION FROM OTHER RRH (STACKED OR SIDE BY SIDE)

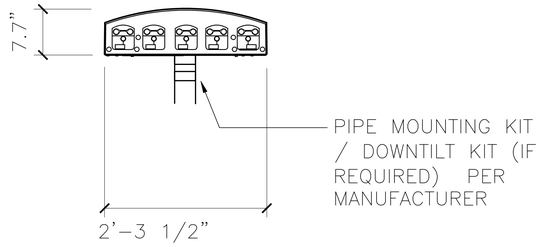


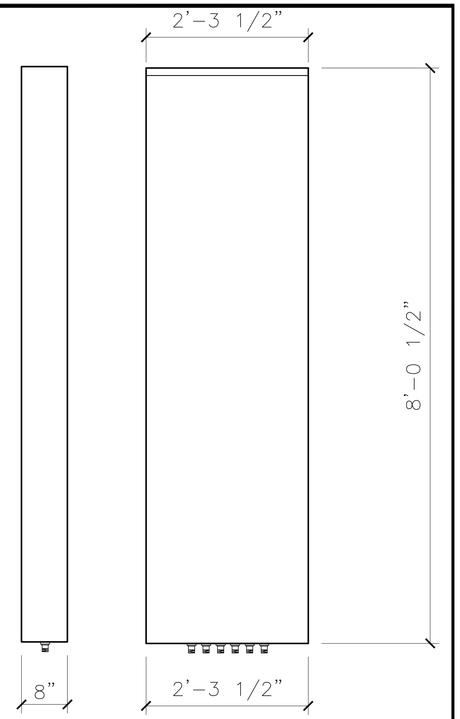
4 / A–4 RRUS 4415 B30

1 1/2" = 1'–0"

CELLMAX CMA-UBTULBULBHH-6517-17-21-21

WEIGHT; 112 lbs
WIND LOAD @ 94 MPH
FRONTAL: 928 N (224.1 LBF
LATERAL: 322 N (72.4 LBF)
REAR: 67 m/s (150 MPH)





3 / A–4 CELLMAX ANTENNA SPEC

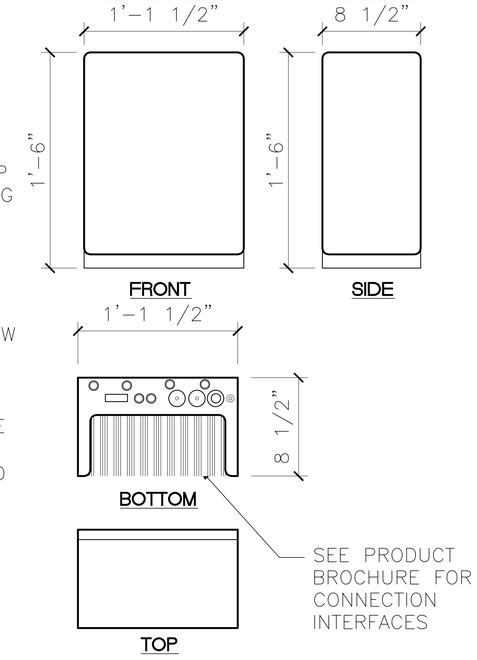
NOT TO SCALE

RRUS 4478 B14

DIMENSIONS (WITH HANDLES & FAN UNIT)
WIDTH: 13.40 in
HEIGHT: 18.1 in
DEPTH: 8.26 in
WEIGHT: 59.4 lbs

CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS. INSTALL 1 SFP AND CONNECT 1 FIBER PAIR TO THE RRUSS 4415 DURING INITIAL INSTALL.
ONLY USE ERICSSON SUPPLIED AND APPROVED SFPS RDH10265/25
2 EXTERNAL ALARM INPUTS
MAX WIND LOAD @ 50M/SEC = 260N
BREAKER SIZE = 25A, DC POWER CONSUMPTION = 650 W (FOR DIMENSIONING)
200MM HORIZONTAL SEPARATION REQUIRED FOR SIDE BY SIDE MOUNTING
200MM SEPARATION REQUIRED FROM ANTENNA BACKPLANE TO RADIO
400MM VERTICAL OUTDOOR/INDOOR SEPARATION REQUIRED BETWEEN 2 RADIOS
500MM VERTICAL SEPARATION BELOW ANTENNA
MIN, MAX DC CABLE SIZE FROM SQUID TO RADIO = 10,8 AWG

RRH NOTE:
ALL RRH TO BE MOUNTED A MINIMUM OF 18" BEHIND ANTENNA – 16" MINIMUM RRH SEPARATION FROM OTHER RRH (STACKED OR SIDE BY SIDE)

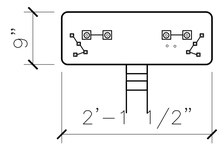


2 / A–4 RRUS 4478 B14

1 1/2" = 1'–0"

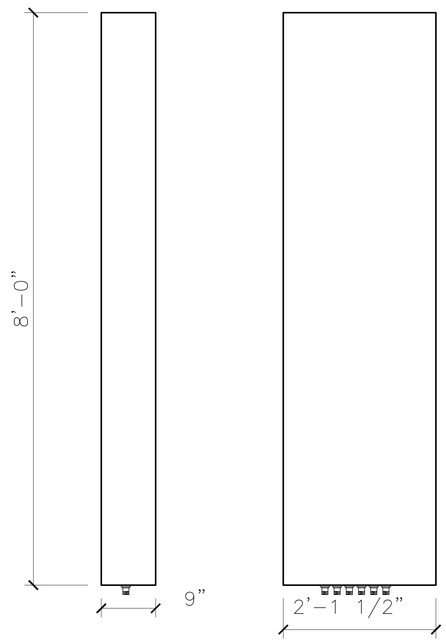
COMMSCOPE COMM-NNHH-45C-R4
8 PORT SECTOR ANTENNA

WIDTH: 25.2"
DEPTH: 9.3"
LENGTH: 95.9"
WEIGHT; 99.2 lbs (45.0 kg)
WIND LOAD; 954 N @ 150 km/h
214.5 lbf @ 150 km/h



INCLUDED PRODUCTS

BSAMNT–1 WIDE PROFILE ANTENNA
DOWNTILT MOUNTING KIT FOR 2.5–4.5" OD ROUND MEMBERS



1 / A–4 ANTENNA SPEC

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HTTP://WWW.DHDARCHITECTURE.BIZ

JN3073
JUNEAU HARBOR
MARINE VIEW NSB
230 S FRANKLIN STREET
JUNEAU, AK 99801

ISSUED DATE: 01–05–2024

ISSUE BLOCK

NO.	DATE	
A	05–26–22	TURF4-NSB 1C RFDS DATED 04–08–22
A1	02–16–23	REV TO PENTHOUSE EQUIPMENT
A2	02–23–23	ADD SCHEMATIC CONDUIT RUN INFO
A3	04–19–23	ANTENNA MOUNT REVS
A4	05–24–23	EQUIPMENT REVISIONS
A5	01–05–24	TURF4-REV TO EQUIPMENT PLATFORM

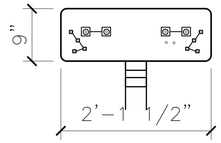
STATE OF ALASKA 49TH
DAVID H DEAN
December 31, 2024
No.11332
REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE: EQUIPMENT DETAILS

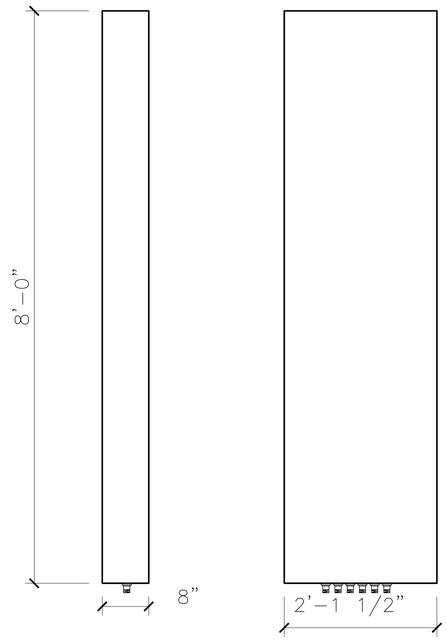
SHEET NUMBER: A-4

COMMSCOPE COMM-NNH4-65C-R6-HG
12 PORT SECTOR ANTENNA

WIDTH: 25.197"
DEPTH: 9.252"
LENGTH: 95.984"
WEIGHT; 99.2 lbs (45.0 kg)
WIND LOAD; 954 N @ 150 km/h
214.5 lbf @ 150 km/h



INCLUDED PRODUCTS
BSAMNT-1 WIDE PROFILE ANTENNA
DOWNTILT MOUNTING KIT FOR 2.5-4.5" OD ROUND MEMBERS



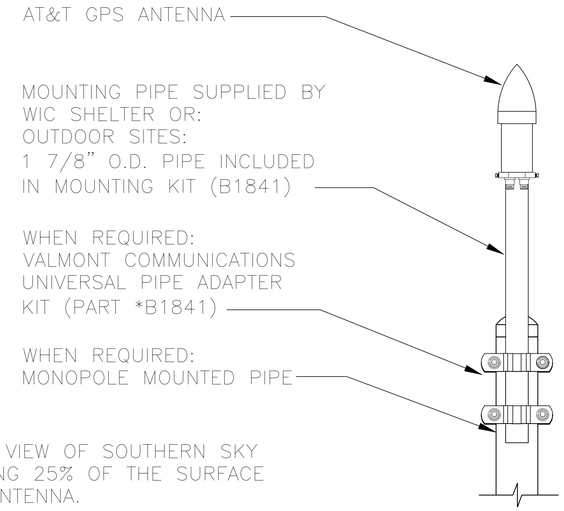
4 / A-5 ANTENNA SPEC

NTS

HIGH REJECTION 40 dB GPS
GPS-TMG-HR-40N
WEIGHT; 0.6 lbs
DIMENSIONS: 5.0" x 3.2"ø

FREQUENCY RANGE: 1575.42+/-10 MHz
ANTENNA GAIN: 3.5 dBic
AMPLIFIER GAIN: 40 dB+/-4 dB

DC VOLTAGE: 3.0-12.0 V (OPERATING)
28 V (SURVIVABILITY)



NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.

2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

3 / A-5 GPS ANTENNA

NOT TO SCALE

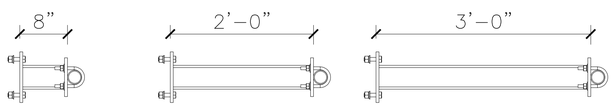
SITEPR1 WALL MOUNT STANDOFF MOUNTS

CEQ#	OEM P/N	DESCRIPTION
ANT.55231	MM01	8" SUPPORT ARM
ANT.55230	MM02	23" SUPPORT ARM
ANT.55232	MM03	36" SUPPORT ARM

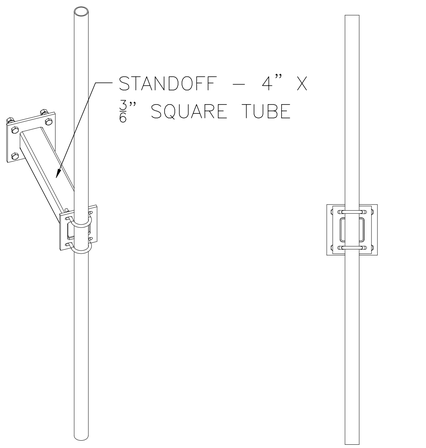
ACCEPT 2-3/8", 2-7/8", OR 3-1/2" PIPES VERTICALLY OR HORIZONTALLY

FITS STANDARD OR LIGHTWEIGHT RING MOUNTS

STANDOFF IS 4" X 3/8" SQUARE TUBE



MM01 PLAN MM02 PLAN MM03 PLAN

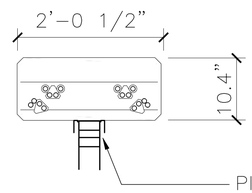


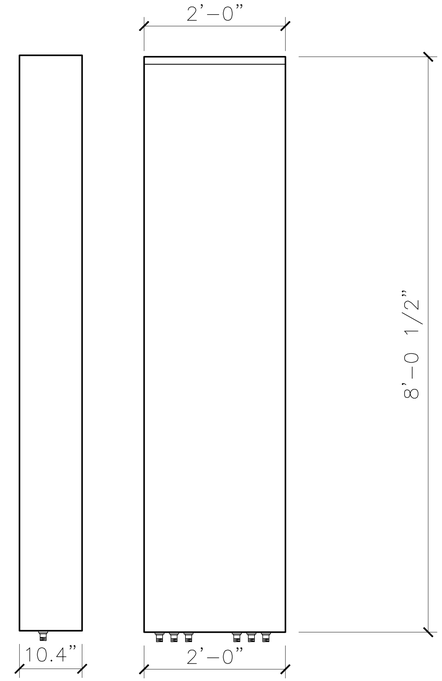
ISO VIEW ELEVATION

2 / A-5 WALL MOUNT DETAIL

1 1/2" = 1'-0"

CELLMAX CMA-UBTULBULBHHP-6517-17-21-21
WEIGHT; 157 lbs
WIND LOAD @ 94 MPH
FRONTAL: 1,530 N (344 LBF)
LATERAL: 254 N (57 LBF)
SURVIVAL WIND SPEED: 67 m/s (151 MPH)





1 / A-5 ANTENNA SPEC

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JUNEAU, AK 99801

ISSUED DATE:
01-05-2024

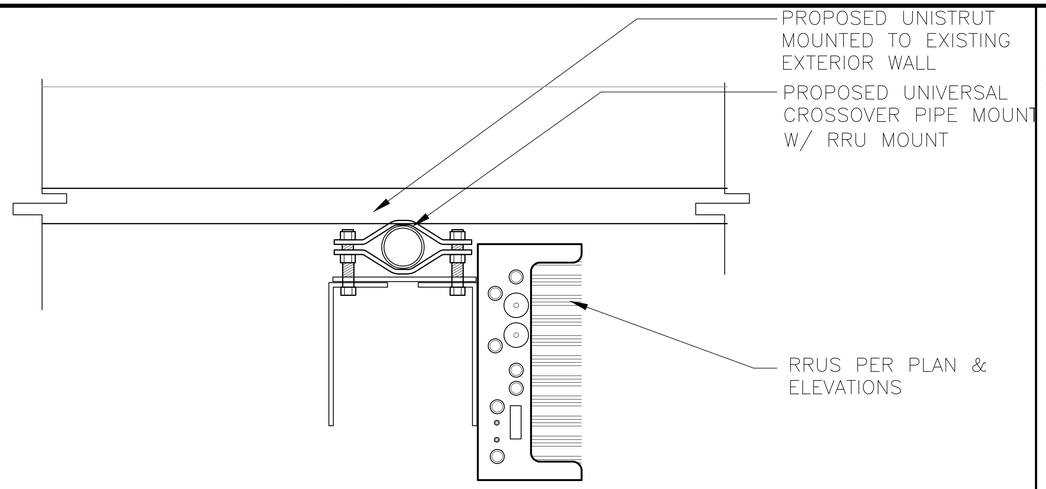
ISSUE BLOCK

NO.	DATE	
6	05-26-22	TURF4:NSB 1C RFDS DATED 04-08-22
5	02-16-23	REV TO PENTHOUSE EQUIPMENT
4	02-23-23	ADD SCHEMATIC CONDUIT RUN INFO
3	04-19-23	ANTENNA MOUNT REVS
2	05-24-23	EQUIPMENT REVISIONS
1	01-05-24	TURF4:REV TO EQUIPMENT PLATFORM

STATE OF ALASKA
49 TH
DAVID H DEAN
December 31, 2024
No. 11332
REGISTERED PROFESSIONAL ARCHITECT

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER:
A-5



U-BRACKET SIDE BY SIDE RRUS MOUNT

RRH NOTE:
ALL RRH TO BE MOUNTED A MINIMUM OF 12" FROM ANTENNA, PROVIDE MORE IF POSSIBLE

4 / A-6 RRU EXTERIOR WALL MOUNT

NTS

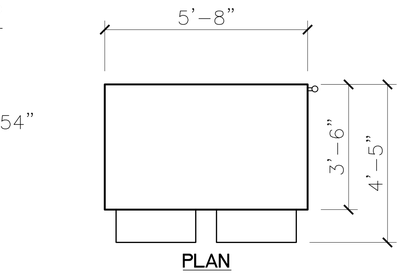
VERTIV NETSURE X701 WALKUP CABINET (WUC)

TWO-BAY
DIMENSIONS (HxWxD): 86" x 68" x 54"
WEIGHT: 1,300 LBS

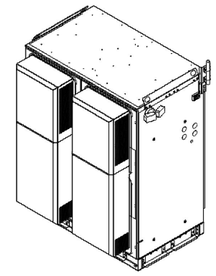
MOUNTING OPTIONS:
PAD, PLATFORM

RACKS:
ADJUSTABLE 19" TO 23" RACKS IN EACH EQUIPMENT CHAMBER

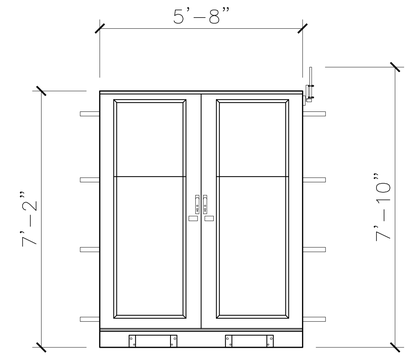
ELECTRICAL:
IMPUT/OUTPUT: 208/240 VAC
SINGLE PHASE INPUT
-48VDC PRIMARY/-58 VDC SECONDARY



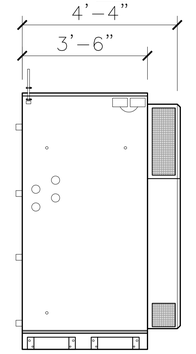
PLAN



ISO



FRONT ELEVATION



SIDE ELEVATION

3 / A-6 VERTIV WALK UP CABINET

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5	01-05-24	TURF4:REV TO EQUIPMENT PLATFORM

STATE OF ALASKA
49 TH
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December 31, 2024
No.11332
REGISTERED PROFESSIONAL ARCHITECT

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER:
A-6

PROPOSED ANTENNA PLAN & SCHEDULE

SECTOR	POSITION NUMBER	BAND TECH.	ANTENNA MODEL	RAD	ANT. SIZE	AZIMUTH	RRH QUANTITY & MODEL #	LINES TO EQUIPMENT	TRUNK LENGTH	ELEC. TILT	MECH. TILT
ALPHA	1	LTE 700 5G LTE 1900	COMMSCOPE SBNHH-1D45C	130'	98.9"	25°	4449 B5/B12, SHARED, 8843 B2/B66A	FIBER	40'-0"±	2°	0°
	2	LTE 700 5G LTE AWS	COMMSCOPE SBNHH-1D45C	130'	98.9"	25°	(3) SHARED RRH	FIBER	40'-0"±	2°	0°
	3	---	----	--	--	--	--	--	--	--	--
	4	LTE 700, LTE WCS	COMMSCOPE NNHH-45C-R4	130'	95.9"	25°	4478 B14, 4415 B30	FIBER	80'-0"±	2°	0°
BETA	1	---	----	--	--	--	--	--	--	--	--
	2	LTE 700, 5G LTE 1900, LTE AWS	COMMSCOPE NNH4-65C-R6-HG	130'	96"	160°	4449 B5/B12, SHARED, 8843 B2/B66A, SHARED	FIBER	80'-0"±	2°	0°
	3	---	----	--	--	--	--	--	--	--	--
	4	LTE 700, LTE WCS	CELLMAX CMA-UBTULBULBHHP/6517/17/21/21	130'	96.5"	160°	4478 B14, 4415 B30	FIBER	80'-0"±	2°	0°
GAMMA DELTA	1	---	----	--	--	--	--	--	--	--	--
	2	LTE 700, 5G LTE 1900, LTE AWS	COMMSCOPE NNH4-65C-R6-HG	130'	96"	260°	4449 B5/B12, SHARED, 8843 B2/B66A, SHARED	FIBER	80'-0"±	2°	0°
	3	---	----	--	--	--	--	--	--	--	--
	4	LTE 700, LTE WCS	CELLMAX CMA-UBTULBULBHHP/6517/17/21/21	130'	96.5"	260°	4478 B14, 4415 B30	FIBER	80'-0"±	2°	0°
MW DISH	---										

SURGE SUPPRESSION QUANTITY & MODEL #				
3	DC9-48-60-24-8C-EV		(1) 24 PAIR FIBER TRUNKS & (2) PWRT-606-S DC TRUNKS	

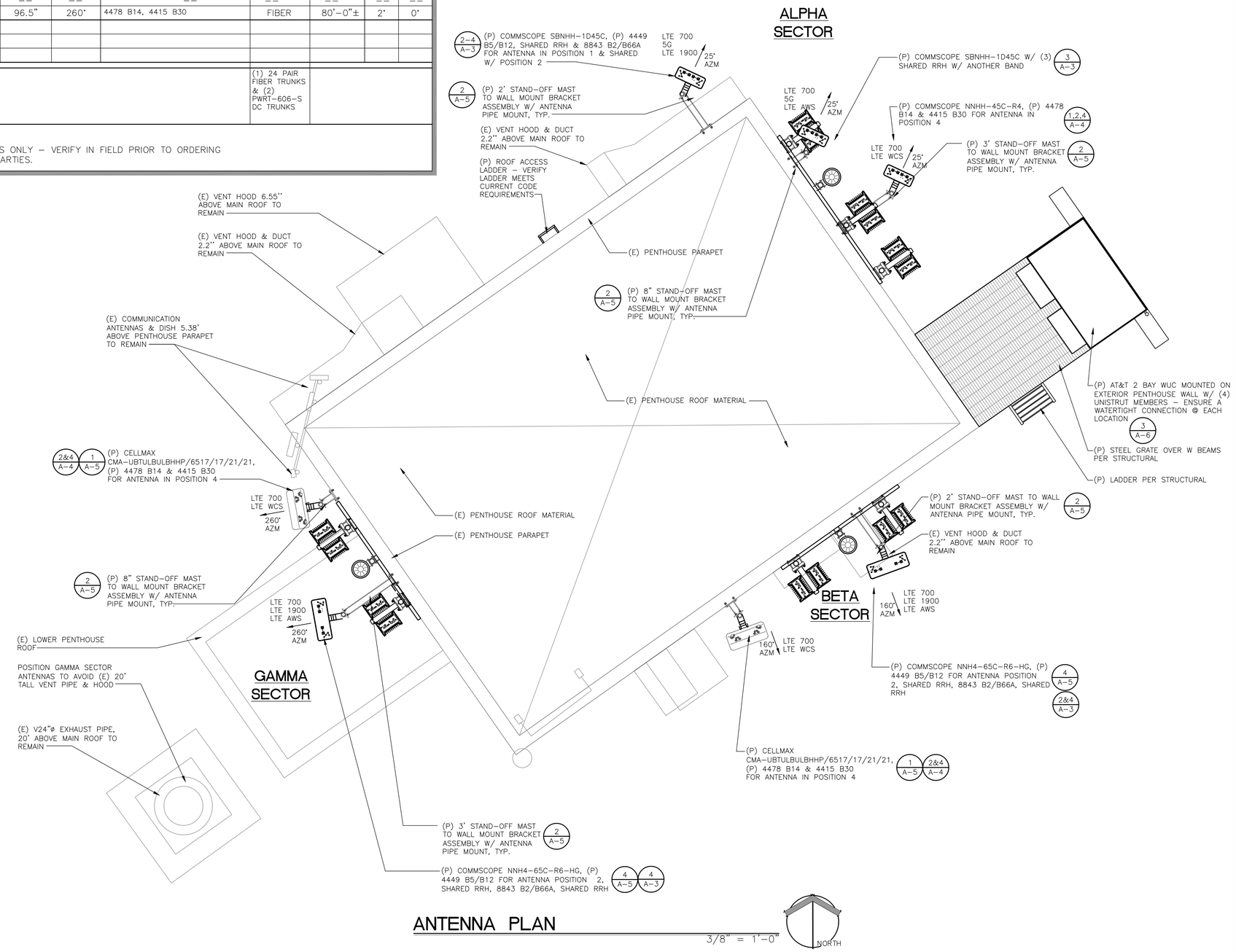
ANTENNA NOTE:
1. DO NOT USE COAX - TRUNK LENGTHS FOR CUT LENGTHS - ESTIMATES ONLY - VERIFY IN FIELD PRIOR TO ORDERING
2. CONFIRM THE LATEST VERSION OF THE RFDS IS BEING USED BY ALL PARTIES.

NOTE:

6'-0 TYPICAL ANTENNA SEPARATION @ EACH SECTOR

RRUS & SURGE SUPPRESSION UNIT TO BE MOUNTED TO EXTERIOR WALL W/ UNISTRUT - ENSURE WATERTIGHT CONNECTION @ ALL LOCATIONS. ALL EQUIPMENT TO BE ACCESSIBLE - 6' TALL MOUNTING MAX.

USE 8", 24" OR 36" STAND-OFF WALL MOUNT TO LINE UP ANTENNA FACES AS MUCH AS POSSIBLE AS NEEDED



ANTENNA PLAN

3/8" = 1'-0"

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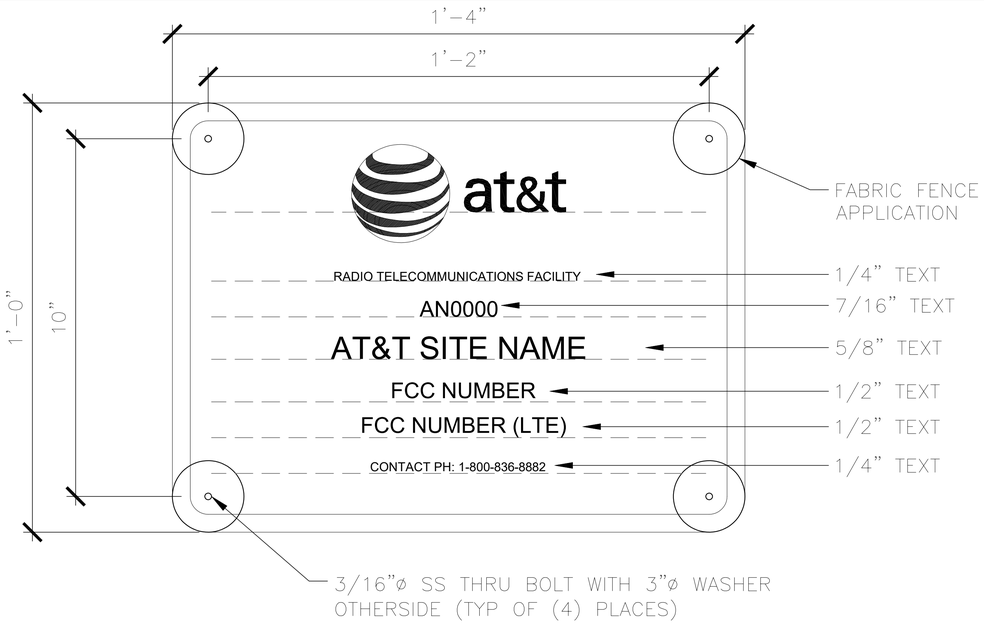
STATE OF ALASKA
49 TH
DAVID H DEAN
December 31, 2024
No.11332
REGISTERED PROFESSIONAL ARCHITECT

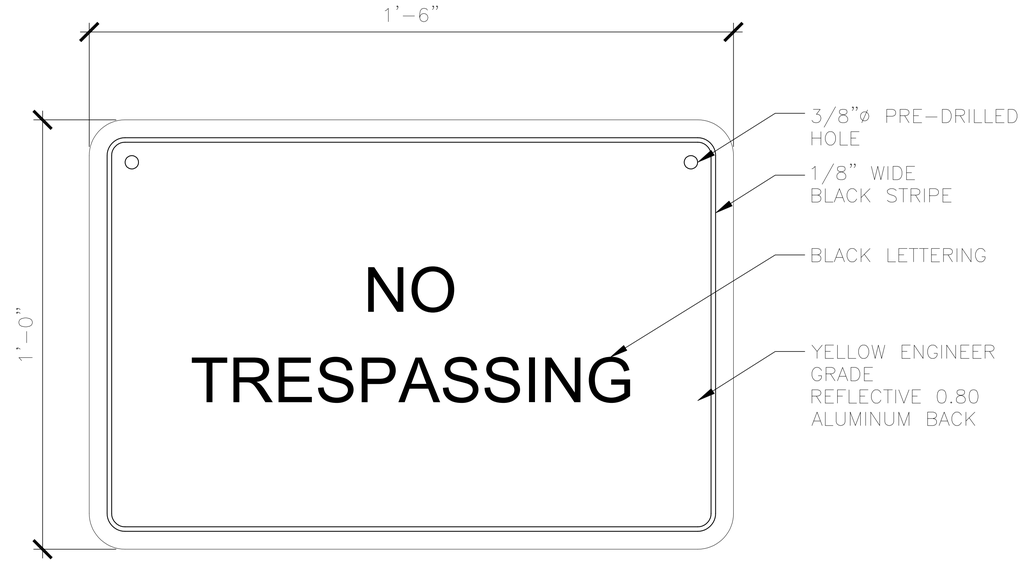
SHEET TITLE:
ANTENNA CONFIGURATION

SHEET NUMBER:
RF-1



4 RF-2 SIGNAGE

NO SCALE



3 RF-2 SIGNAGE

NO SCALE

SIGNS AND PLACEMENT:

1. LOW LEVEL BLUE NOTICE SIGNS – PLACE AT SITE ENTRY / ACCESS POINTS ONLY.
   – ROOFTOPS: PLACE SIGNS ON THE INSIDE OF ROOF HATCH; PLACE ON ACCESS DOOR UNLESS DOOR IS USED BY GENERAL PUBLIC OR BUILDING TENANTS ON A REGULAR BASIS FOR ACCESS – IN THESE CASES CONSULT CONSTRUCTION MANAGER.
   – WATER TANKS: PLACE SIGNS ON COMPOUND GATE.
   – NETWORK CARRIER OWNED SITES: PLACE ONE SIGN ON COMPOUND GATE; ALL SIGNS SHALL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS TECH SCREWS.

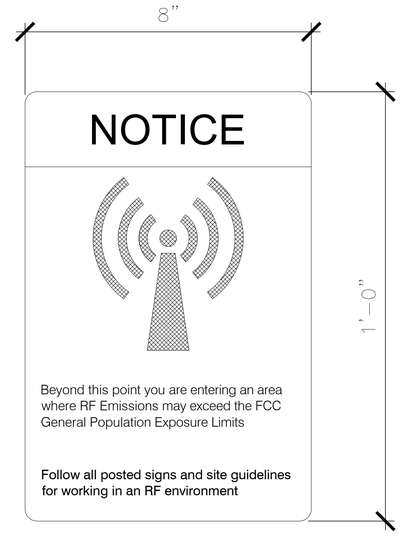
2. CONSTRUCTION COORDINATOR PARTICIPATION IN SIGN LOCATION: NETWORK CARRIER CONSTRUCTION MANAGER SHALL MEET WITH ALL CONSTRUCTION COORDINATOR'S TO OUTLINE CRITERIA FOR SIGN PLACEMENT. EMPHASIS SHALL BE PLACED ON "CHALLENGING" SITES, WHERE THE NETWORK CARRIER CONSTRUCTION MANAGERS SHALL GIVE CONSTRUCTION COORDINATOR'S AS MUCH GUIDANCE ON EACH SPECIFIC SITUATION AS POSSIBLE, HOWEVER, CONSTRUCTION COORDINATOR'S SHALL BE ENCOURAGED TO PARTNER WITH NETWORK CARRIER CONSTRUCTION MANAGER IN DECIDING PLACEMENT PERTAINING TO CHALLENGING SITES. A SITE VISIT MAY BE REQUIRED TO FULFILL REQUIREMENTS. CONSTRUCTION COORDINATOR SHALL IDENTIFY ALL SIGN LOCATIONS AT THE A&E WALK. PLEASE SEE SIGN DETAIL AND SIZE.

3. SIGN DISBURSEMENT FROM WAREHOUSE: SIGN INVENTORY SHALL BE ACCESSIBLE AT NETWORK CARRIER WAREHOUSE TO BE DISBURSED AS PART OF THE GENERAL CONTRACTOR BOM AS CALLED OUT IN A&E DRAWINGS FOR EACH SITE.

2 RF-2 GENERAL SIGNAGE NOTES

NO SCALE

NOTES:
1. FOR AT&T LOGO SEE AT&T LOGO DESIGN SPECIFICATIONS
2. ALL TEXT FONT IS ARIAL U.N.O.
3. CONTRACTOR TO PROCURE FCC NO. FROM AT&T COMPLIANCE MANAGER
PH: 425-580-8860
4. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER AT&T CONSTRUCTION MANAGER RECOMMENDATIONS
5. CABINET MOUNTING APPLICATION REQUIRES ADHERING PLATE TO FACE OF CABINET WITH WATERPROOFING POLYURETHANE ADHESIVE
6. AT&T MOBILITY COMPLIANCE STATEMENT: BASED ON THE INFORMATION COLLECTED, AT&T MOBILITY WILL BE COMPLIANT WITH FCC RULES AND REGULATIONS AT THE NEAREST WALKING SURFACE IF RECOMMENDATIONS IN THE COMPLIANCE SUMMARY ARE IMPLEMENTED. REFER TO RFSSRP REPORT AND TO REFERENCE IT FOR SPECIFIC SIGNAGE REQUIREMENTS.



1 RF-1 SIGNAGE

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NO.	DATE	ISSUE BLOCK
1	05-26-22	TURF4:NSB 1C RFDS DATED 04-08-22
2	02-16-23	REV TO PENTHOUSE EQUIPMENT
3	02-23-23	ADD SCHEMATIC CONDUIT RUN INFO
4	04-19-23	ANTENNA MOUNT REVS
5	05-24-23	EQUIPMENT REVISIONS
6	01-05-24	TURF4:REV TO EQUIPMENT PLATFORM

STATE OF ALASKA
49 TH
DAVID H DEAN
December 31, 2024
No. 11332
REGISTERED PROFESSIONAL ARCHITECT

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER:
RF-2

PLATFORM INSTALLATION DRAWINGS PREPARED FOR AT&T

SITE NAME: JUNEAU HARBOR
NUMBER: JN3073
FA NUMBER: 14738339

SITE ADDRESS:

230 S. FRANKLIN STREET, JUNEAU,
JUNEAU BOROUGH, AK 99801

PROJECT CONTACTS:

1. PROJECT MANAGER
   TODD RICHARDSON
   907-336-3886
   TODD.RIHARDSON@MASTEC.COM

2. DESIGN ENGINEER - MAIN RFI CONTACT
   RAHUL MANGARI, EI
   RAHUL.MANGARI@MASTEC.COM

3. ENGINEER OF RECORD
   RAPHAEL I. MOHAMED, PE, PEng
   919-674-5895
   1151 SE CARY PKWY, SUITE 101
   CARY, NC 27518
   RAPHAEL. MOHAMED@MASTEC.COM

4. FOR FABRICATION AND CONSTRUCTION RELATED INQUIRIES: CONTACT MASTEC DESIGN ENGINEER AND ENGINEER OF RECORD.

BUILDING INFORMATION

BUILDING HEIGHT / TYPE:	107.3 FT BUILDING ROOFTOP W/ 18.5 PENTHOUSE
MOUNT HEIGHT/TYPE:	107 FT (PLATFORM)
BUILDING LOCATION:	LAT: 58.2993° LONG: -134.4047°
PASSING ANALYSIS FIRM NAME:	MASTEC NETWORK SOLUTIONS
PROJECT NUMBER:	45903-MOD2

CODE COMPLIANCE

ANSI/TIA-222-H
2021 INTERNATIONAL BUILDING CODE

DRAWINGS INCLUDED

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
T-1	TITLE SHEET		
N-1	MODIFICATION INSPECTION CHECKLIST		
N-2	GENERAL NOTES		
S-1	MODIFICATION SCHEDULE		
S-2	PLATFORM ROOFTOP PLACEMENT		
S-3	PLATFORM FRAMING PLAN		
S-4	PLATFORM INSTALLATION DETAIL		
S-5	PLATFORM LADDER INSTALLATION DETAIL		

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

NO.	DATE	DESCRIPTION	BY
0	12/28/23	FIRST ISSUE	RM

REVISIONS

Digitally signed by Raphael Mohamed, PE, PENG
DN: C=US, E=raphael.mohamed@mastec.com, O=MasTec Network Solutions, OU=MasTec Employee, CN="Raphael Mohamed, PE, PENG"
Date: 2024.01.04 15:46:20-05'00'

Raphael Mohamed, PE, PENG

STATE OF ALASKA
49TH
RAPHAEL MOHAMED
No. CE168162
REGISTERED PROFESSIONAL ENGINEER

RAPHAEL I. MOHAMED, PE,PEng
SENIOR DIRECTOR OF ENGINEERING
AK PE LICENSE NO. CE168162

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DRAWN BY: RM

CHECKED BY: BDM

APPROVED BY: RIM

SCALE: N.T.S

TITLE SHEET

T-1

REV 0

MI CHECKLIST

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

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

MODIFICATION INSPECTION NOTES:

GENERAL:

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

MI INSPECTOR:

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

GENERAL CONTRACTOR:

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

MI VERIFICATION INSPECTIONS:

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

REQUIRED PHOTOS:

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTIONS AND INSPECTION:
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- WELD PREPARATION
- BOLT INSTALLATION AND TORQUE
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN FIELD CONDITIONS

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

CORRECTION OF FAILING MI'S:

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE TOWER OWNER TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

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

RECOMMENDATIONS:

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING A MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI, THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACULTIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MI:

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

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49TH
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RAPHAEL I. MOHAMED, PE,PEng
SENIOR DIRECTOR OF ENGINEERING
AK PE LICENSE NO. CE168162

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JUNEAU, AK 99801

DRAWN BY: RM

CHECKED BY: BDM

APPROVED BY: RIM

SCALE: N.T.S

MODIFICATION INSPECTION CHECKLIST

N-1

REV 0

GENERAL NOTES:

1. ALL WORK PRESENTED IN THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR MUST HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN TOWER ERECTION AND RETROFIT SIMILAR TO THAT DESCRIBED HEREIN.
3. ALL CONSTRUCTION IS TO BE COMPLETE IN ACCORDANCE WITH THE ANSI/ASSE A10.48 AND ANSI/TIA-322 STANDARDS. THE CONTRACTOR MUST HAVE CONSIDERABLE WORKING KNOWLEDGE IN THESE STANDARDS TO ACCEPT THIS WORK. BY ACCEPTING THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE, ABILITY, AND KNOWLEDGE OF THE WORK TO BE PERFORMED AND IS PROPERLY LICENSED AND REGISTERED TO COMPLETE THIS WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS PRIOR TO BEGINNING ANY MATERIAL ORDERS, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR MAY PROCEED WITH THE PROJECT.
5. ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE CONTRACTOR AND/OR FABRICATOR.
6. ALL MANUFACTURERS' INSTRUCTIONS FOR INSTALLATION MUST BE FOLLOWED EXACTLY AS SPECIFIED. WHEN CONFLICTING WITH THESE DRAWINGS, THE MANUFACTURER SPECIFICATIONS SHALL GOVERN.
7. ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THESE DRAWINGS SHALL BE IN NEW OR GOOD WORKING QUALITY, FREE FROM DEFECTS AND FAULTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL SUBSTITUTIONS MUST BE GIVEN WRITTEN APPROVAL FROM THE EOR PRIOR TO INSTALLATION. ALL MATERIALS SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INTENDED CONSTRUCTION ACTIVITY INCLUDING MATERIALS, ACCESS AND WORK SCHEDULE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND WILL BE RESPONSIBLE FOR ABIDING BY ALL REQUIREMENTS AND CONDITIONS OF THE PERMITS. WHEN APPLICABLE, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTION PRIOR TO BEGINNING OF ANY CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS. CONSTRUCTION OF THE PROPOSED WORK SHALL MEET ANSI/ASSE A10.48, OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
10. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTALLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS DURING ERECTION AND/OR FIELD ALTERATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY; SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
12. THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED OR ALTERED WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE EOR.
13. INCORRECTLY FABRICATED, DAMAGED, MIS-FITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO THE EOR PRIOR TO ANY REMEDIAL OR CORRECTING ACTION. ALL ACTIONS SHALL REQUIRE EOR APPROVAL.

STEEL:

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

COLD GALVANIZATION:

1. ALL DAMAGED SURFACES SHALL BE REPAIRED WITH A COLD-GALVANIZING COATING CONFORMING TO ASTM 780. THIS COATING SHALL BE APPLIED BY BRUSH. THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ± PURE ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 4 MILS.
2. CONTRACTOR TO USE ZINGA OR ZRC COLD GALVANIZATION COMPOUNDS OR APPROVED EQUIVALENTS.
3. CLEAN AREAS TO BE PREPARED AND REMOVE SLAG FROM WELDS FOR TREATMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. IF THE TOWER IS PAINTED, ALL TREATED AREAS ARE TO BE BRUSH PAINTED TO MATCH THE TOWER AFTER COLD GALVANIZING COMPOUND IS ALLOWED TO CURE.

U-BOLTS:

1. ALL U-BOLTS ARE TO BE ASTM A36/A307, SAE 429 GR. 2 UNLESS OTHERWISE SPECIFIED.
2. U-BOLTS SHALL MEET REQUIREMENTS OF ASME B18.31.5-2011 BENT BOLTS.
3. U-BOLT ASSEMBLY SHALL COME COMPLETE WITH NUTS (ASTM A563), WASHERS (ASTM F436), AND LOCK WASHERS.
4. FULL U-BOLT ASSEMBLY TO BE HOT-DIP GALVANIZED PER ASTM A153/A153M OR A123, AS APPLICABLE.

NOTES:

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

MODIFICATION MATERIALS

SCOPE	SHAPE	GRADE	YIELD STRENGTH (Fy)	ULTIMATE STRENGTH (Fu)
ALL	PIPE	A53 GR. B	35 KSI	60 KSI
ALL	U-BOLT	SAE J429 GR. 2	57 KSI	74 KSI

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SCALE: N.T.S

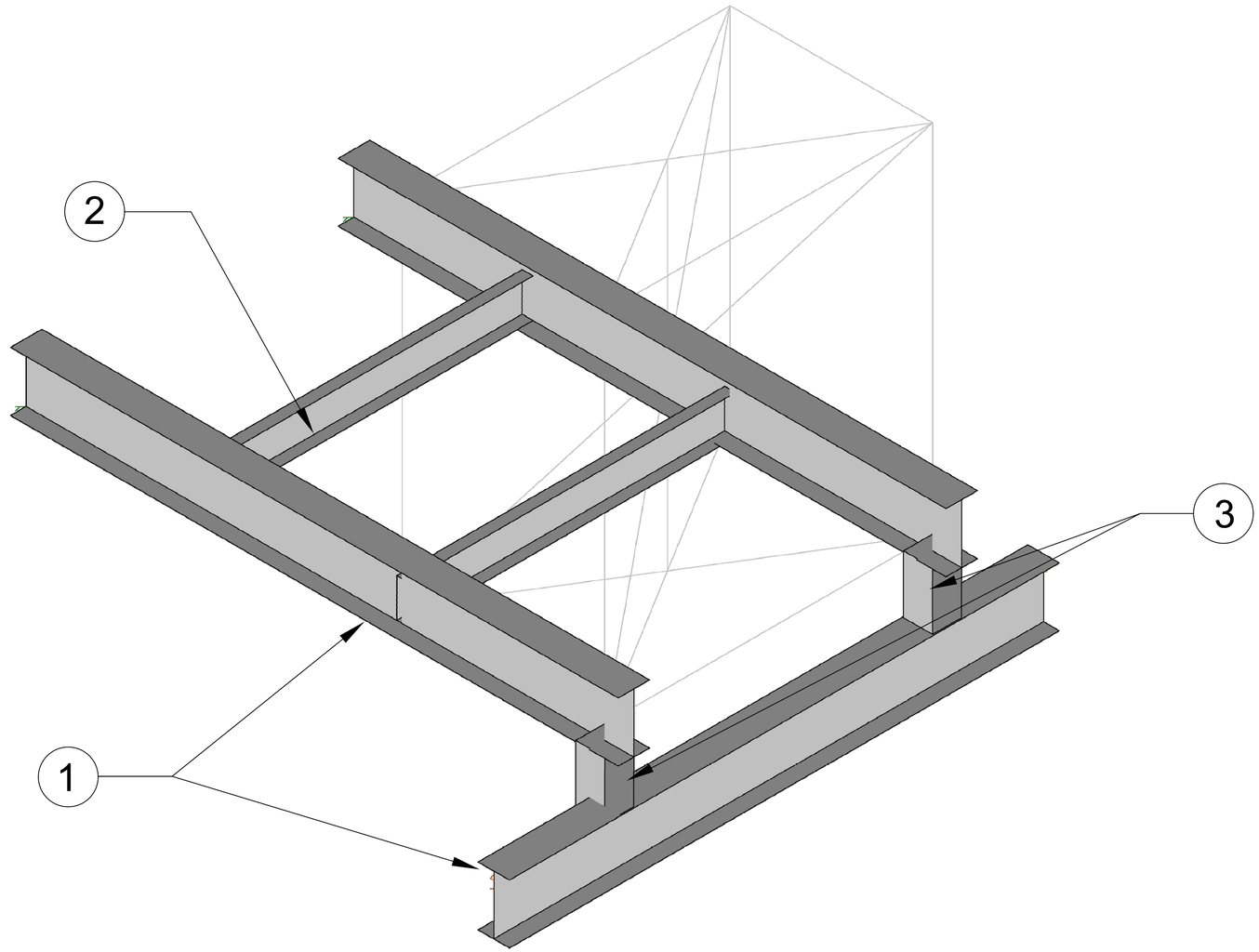
NOTES

N-2

REV 0

MODIFICATION SCHEDULE

SCOPE NO.	MODIFICATION DESCRIPTION	BOTTOM ELEVATION	TOP ELEVATION	SHEET NO.
1	INSTALLATION OF NEW PLATFORM BEAMS	-	117'-0" ±	S-2 TO S-4
2	INSTALLATION OF NEW PLATFORM BRACINGS	-	117'-0" ±	S-2 TO S-4
3	INSTALLATION OF NEW PLATFORM SUPPORTS	-	117'-0" ±	S-2 TO S-4



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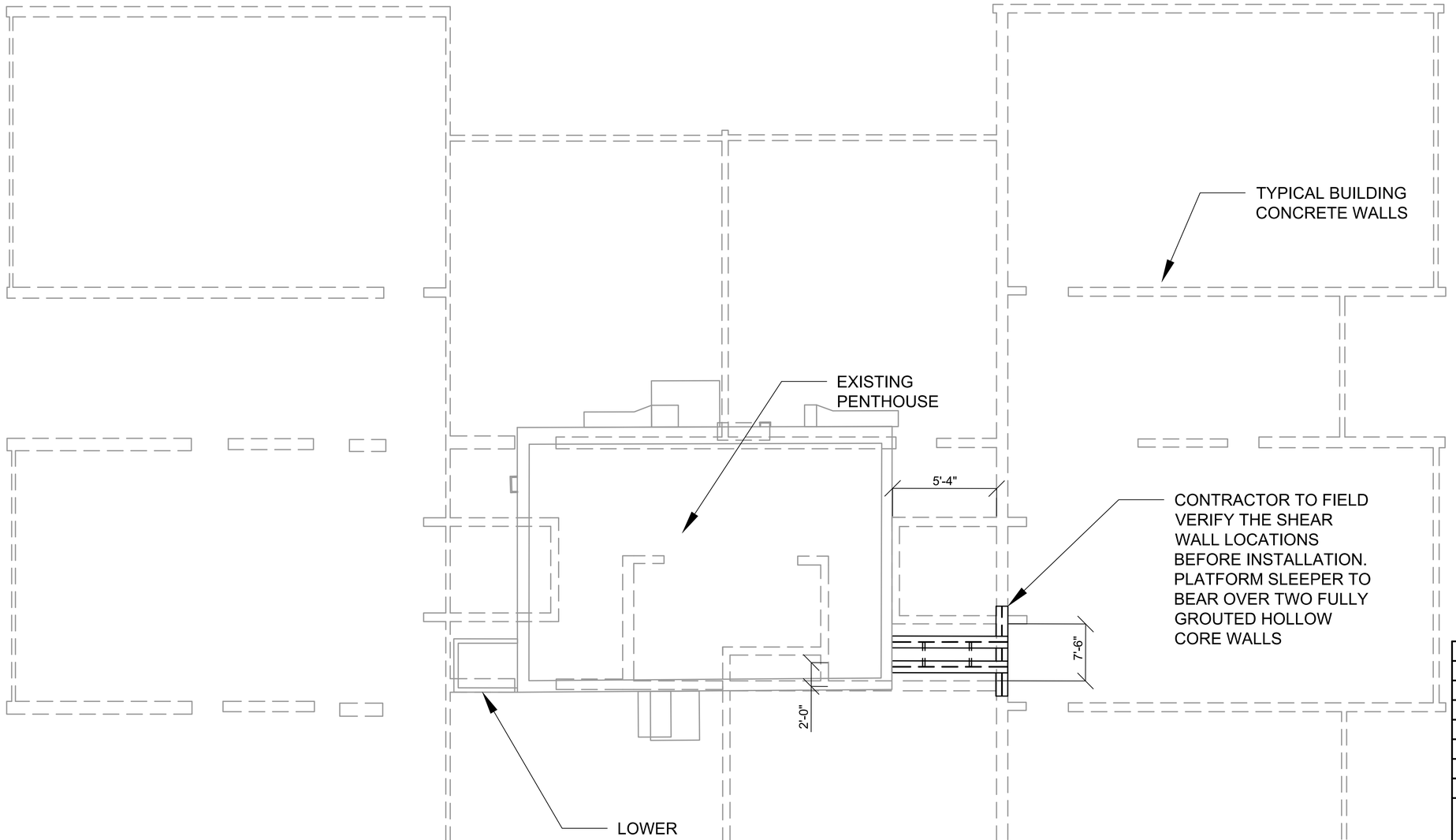
MODIFICATION SCHEDULE
(ALPHA/BETA SECTORS)

S-1

REV 0



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PLATFORM ROOFTOP PLACEMENT

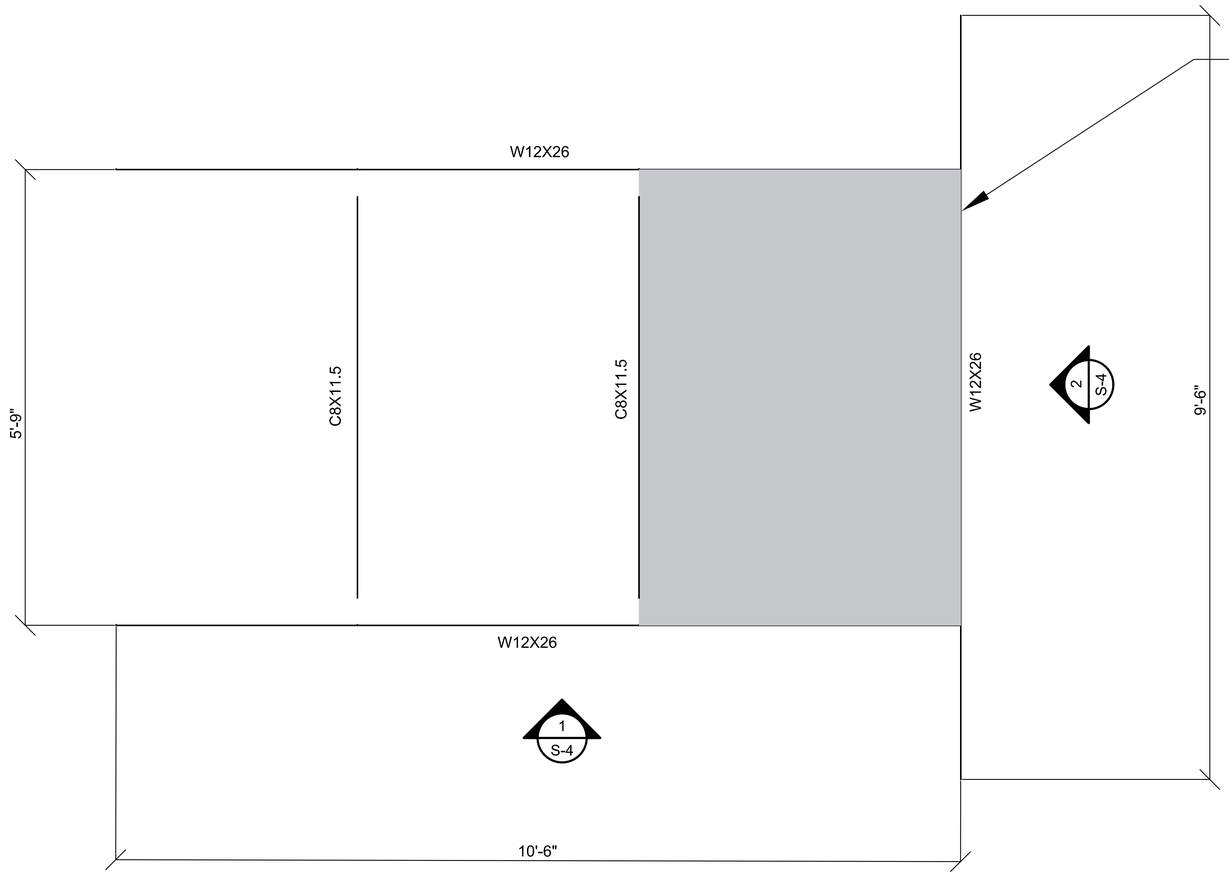
S-2

REV 0

NOTES:

1. CONTRACTOR TO FIELD VERIFY THE REQUIRED LENGTH OF THE NEW PIPES MAY CUT ENDS AS REQUIRED TO AVOID UNNECESSARY OVERHANG AND OVERLAP.
2. TWO COATS OF COLD GALVANIZING COATING MUST BE APPLIED TO ALL CUT ENDS IN ACCORDANCE TO ASTM A780 PRIOR TO INSTALLATION.

PLATFORM BILL OF MATERIAL		
MARK	**QUANTITY**	**DESCRIPTION**
(WF)	3	PLATFORM WIDE FLANGE, W12X26
(CS)	2	PLATFORM BRACING, C8 X 11.5
(HSS)	2	PLATFORM VERTICAL SUPPORT, HSS6X6X3/8
(CP)	2	CAP PLATE, 14" X 10" X 1/2"
(AP)	2	ANCHOR PLATE, 14" X 10" X 1/2"
(GP)	4	GUSSET PLATE, 4" X 6" X 3/8"
--	24	CONNECTION BOLTS, 3/4"Ø A325 W/ NUT-LKW EA.
2018444	8	HILTI HIT-Z 1/2 (ELEMENT)
2334276	8	HILTI HIT-HY200 V3 (ADHESIVE)
MAT18	5	RUBBER MATS, SITE PRO 1 1/2" X 18" X 48"



1 / S-3 PLATFORM FRAMING
PLAN VIEW
NTS

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REGISTERED PROFESSIONAL ENGINEER

RAPHAEL I. MOHAMED, PE,PEng
SENIOR DIRECTOR OF ENGINEERING
AK PE LICENSE NO. CE168162

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

MasTec
Network Solutions
1151 SE CARY PKWY, SUITE 101
CARY, NC 27518

SITE NAME: JUNEAU HARBOR
SITE NUMBER: JN3073
FA NUMBER: 14738339
MNS ENG. NUMBER: 45903 - MOD2

SITE ADDRESS:
230 S FRANKLIN STREET,
JUNEAU, AK 99801

DRAWN BY: RM

CHECKED BY: BDM

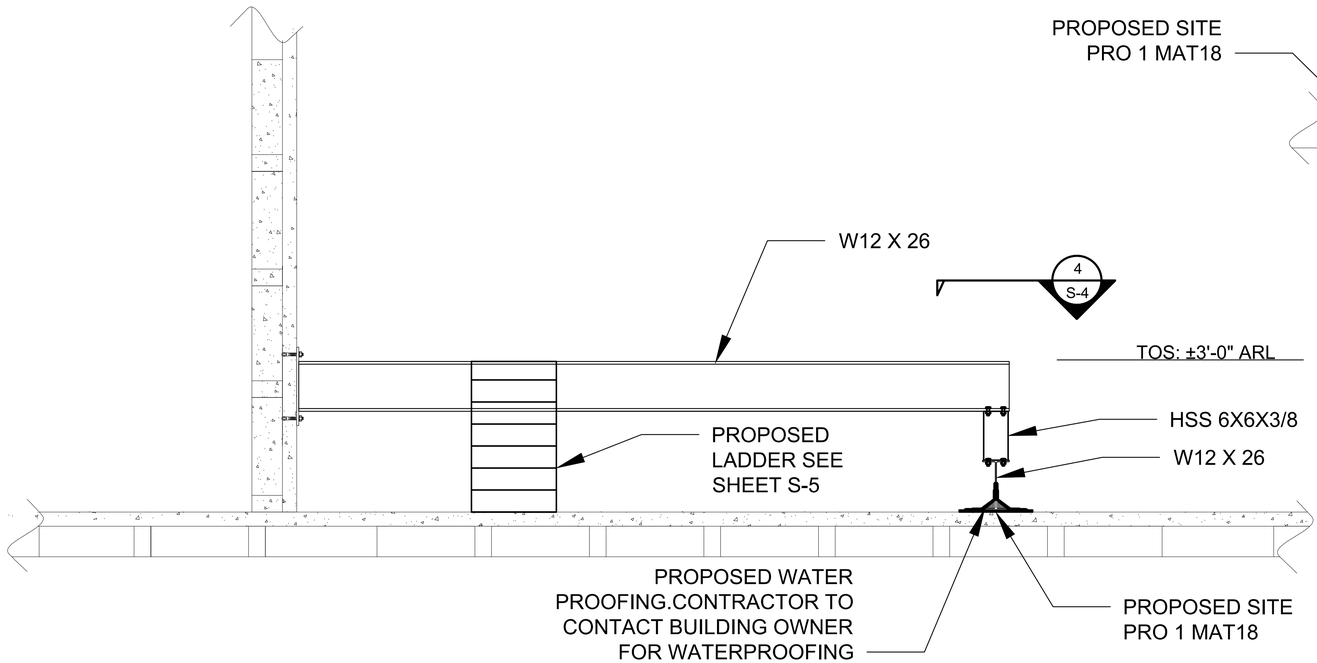
APPROVED BY: RIM

SCALE: N.T.S

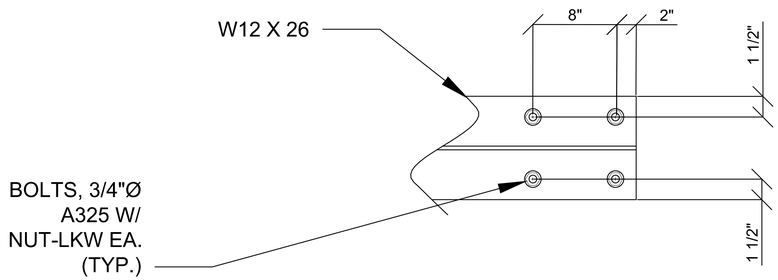
PLATFORM FRAMING PLAN

S-3

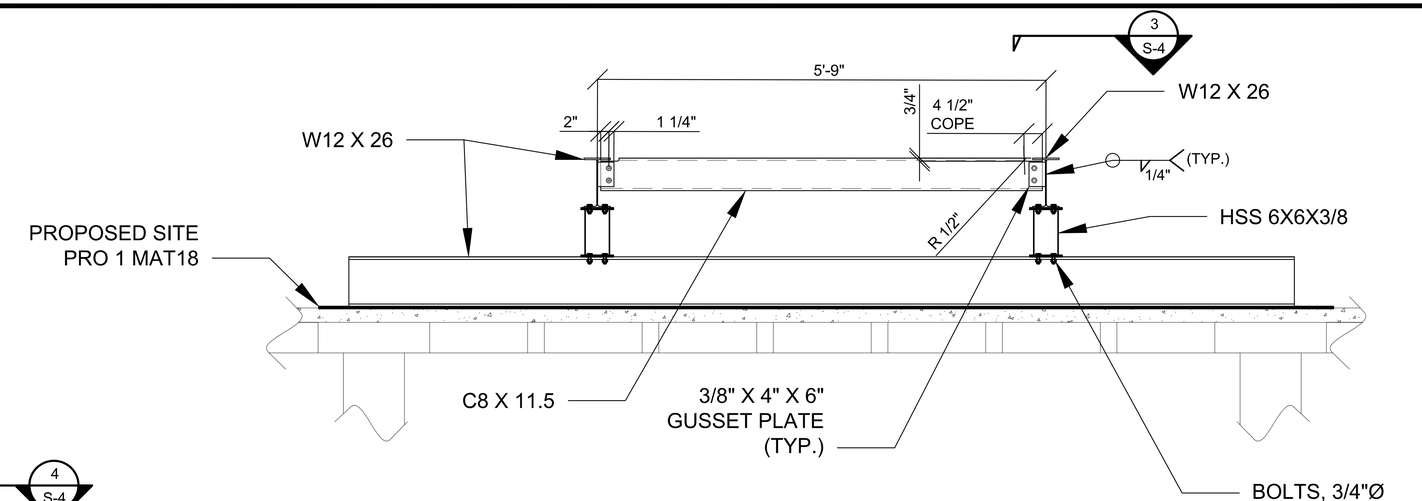
REV 0



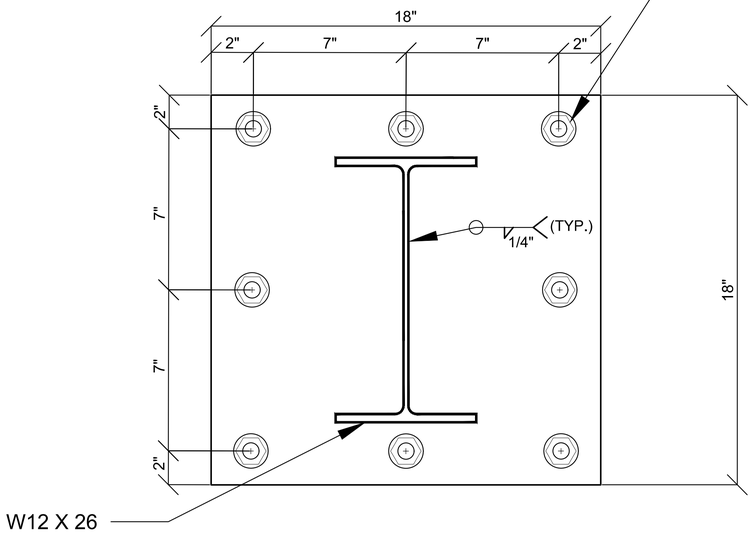
1 S-4 PLATFORM SECTION VIEW
SIDE VIEW
NTS



3 S-4 TYPICAL WIDE FLANGE CONNECTION DETAIL
PLAN VIEW
NTS



2 S-4 PLATFORM SECTION VIEW
SIDE VIEW
NTS



4 S-4 TYPICAL WIDE FLANGE - WALL CONNECTION DETAIL
SIDE VIEW
NTS

NO.	DATE	DESCRIPTION	BY
0	12/28/23	FIRST ISSUE	RM

REVISIONS

STATE OF ALASKA
49TH
RAPHAEL MOHAMED
No. CE168162
REGISTERED PROFESSIONAL ENGINEER

RAPHAEL I. MOHAMED, PE,PEng
SENIOR DIRECTOR OF ENGINEERING
AK PE LICENSE NO. CE168162

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MasTec
Network Solutions
1151 SE CARY PKWY, SUITE 101
CARY, NC 27518

SITE NAME: JUNEAU HARBOR
SITE NUMBER: JN3073
FA NUMBER: 14738339
MNS ENG. NUMBER: 45903 - MOD2

SITE ADDRESS:
230 S FRANKLIN STREET,
JUNEAU, AK 99801

DRAWN BY: RM

CHECKED BY: BDM

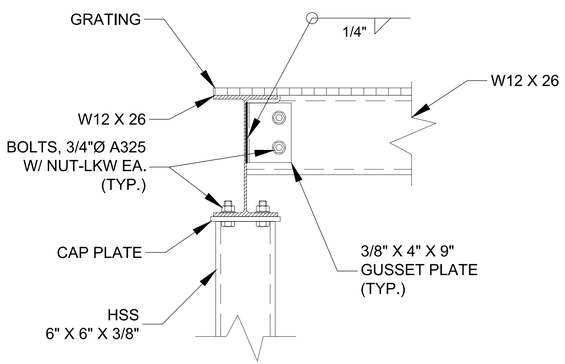
APPROVED BY: RIM

SCALE: N.T.S

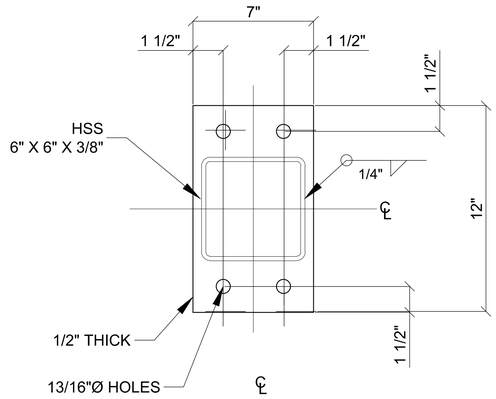
PLATFORM INSTALLATION DETAIL

S-4

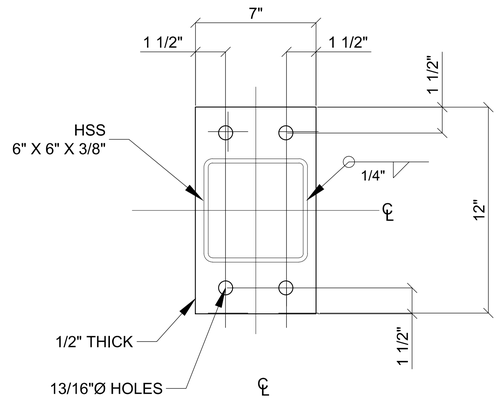
REV 0



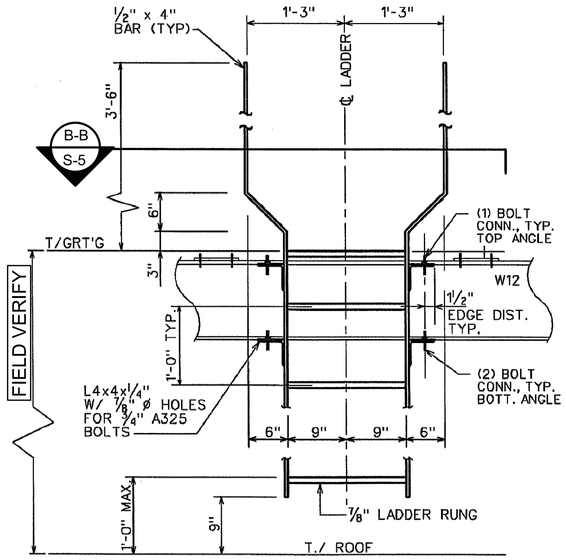
CONNECTION DETAIL
(TYPICAL)



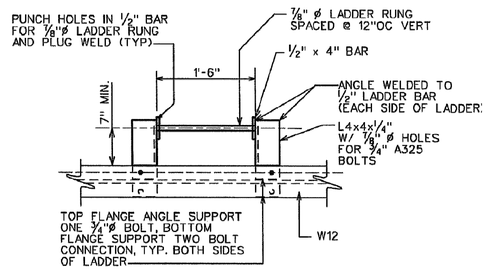
CAP PLATE DETAIL



ANCHOR PLATE DETAIL



A-A
S-5
LADDER FRONT VIEW
NTS



B-B
S-5
LADDER SECTION VIEW
NTS

NO.	DATE	DESCRIPTION	BY
0	12/28/23	FIRST ISSUE	RM

REVISIONS

MasTec
Network Solutions
1151 SE CARY PKWY, SUITE 101
CARY, NC 27518

STATE OF ALASKA
49TH
RAPHAEL MOHAMED
No. CE168162
REGISTERED PROFESSIONAL ENGINEER

SITE NAME: JUNEAU HARBOR
SITE NUMBER: JN3073
FA NUMBER: 14738339
MNS ENG. NUMBER: 45903 - MOD2

SITE ADDRESS:
230 S FRANKLIN STREET,
JUNEAU, AK 99801

DRAWN BY: RM

CHECKED BY: BDM

APPROVED BY: RIM

SCALE: N.T.S

RAPHAEL I. MOHAMED, PE,PEng
SENIOR DIRECTOR OF ENGINEERING
AK PE LICENSE NO. CE168162

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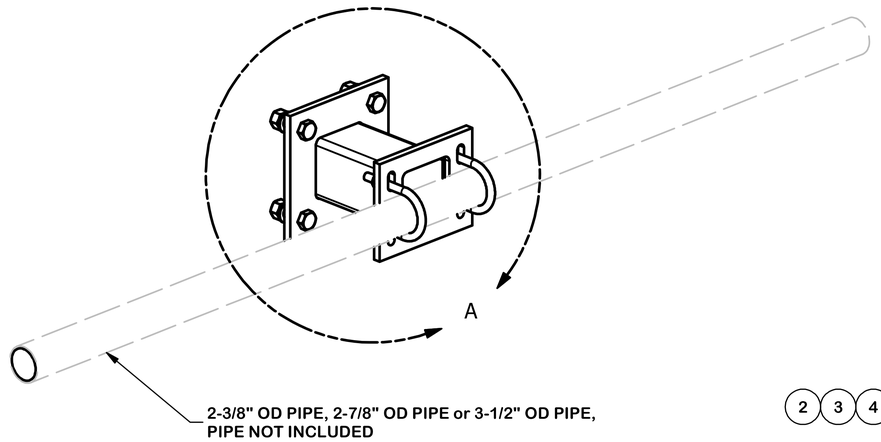
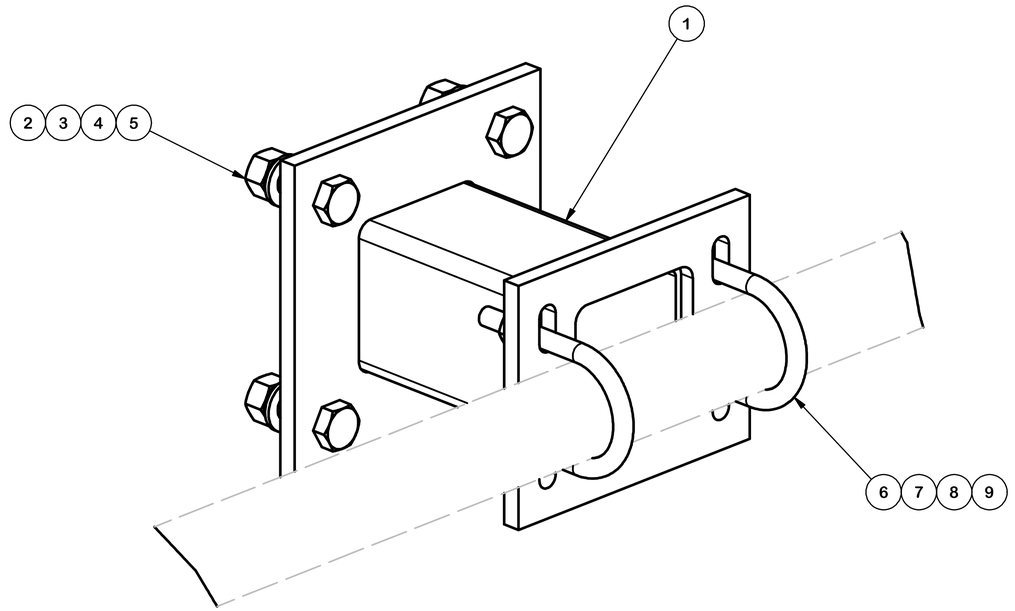
PLATFORM LADDER DETAILS

S-5

REV 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-WWM01	8" STAND-OFF ARM / WALL MOUNT		18.12	18.12
2	4	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	1.34
3	4	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.14
4	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
5	4	A58NUT	5/8" HDG A325 HEX NUT		0.13	0.52
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	1.31
6	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.70	1.39
6	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	1.54
7	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
8	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
9	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	26.06





DETAIL A

TOLERANCE NOTES

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

DESCRIPTION
6" STAND-OFF
ANTENNA WALL MOUNT,
SITE PRO 1

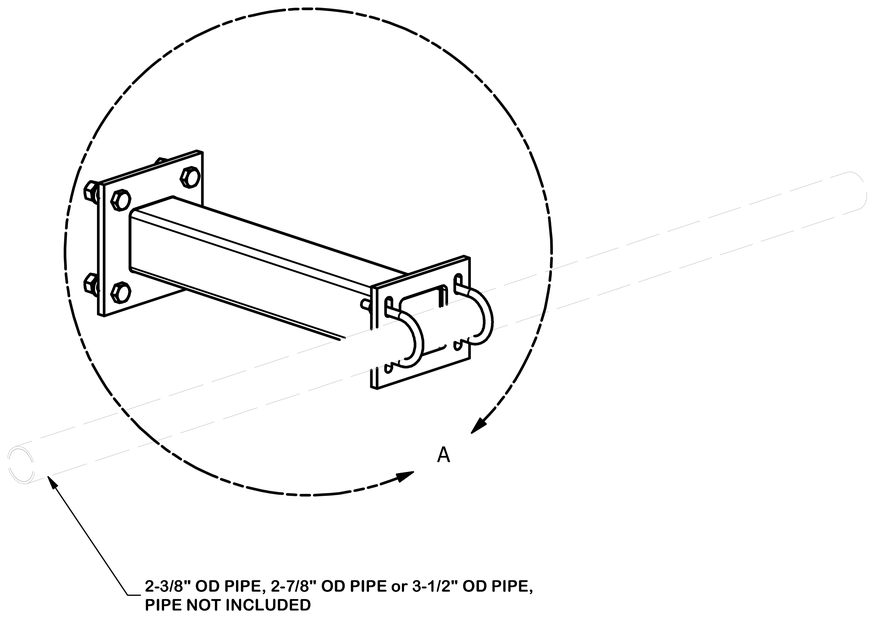
SITE PRO 1
A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

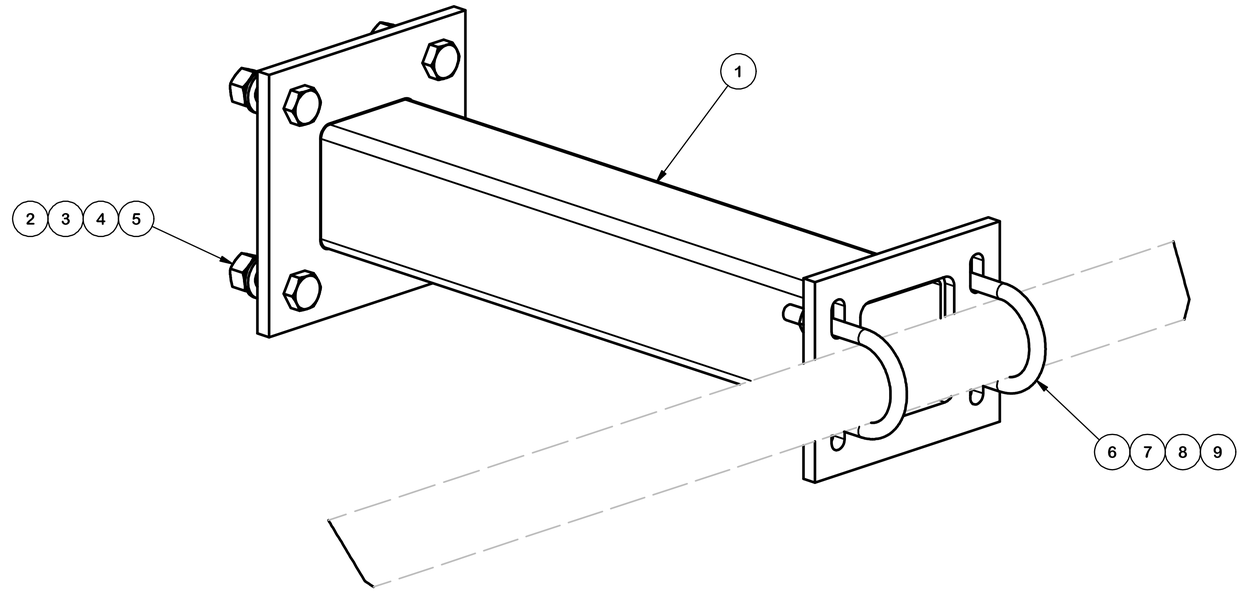
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4714	RH18 3/23/2010		MM01	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC 5/10/2010	MM01



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-WWM02	2' STAND-OFF ARM / WALL MOUNT		30.51	30.51
2	4	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	1.34
3	4	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.14
4	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
5	4	A58NUT	5/8" HDG A325 HEX NUT		0.13	0.52
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	1.31
6	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.70	1.39
6	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	1.54
7	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
8	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
9	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	39.27



DETAIL A

TOLERANCE NOTES

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

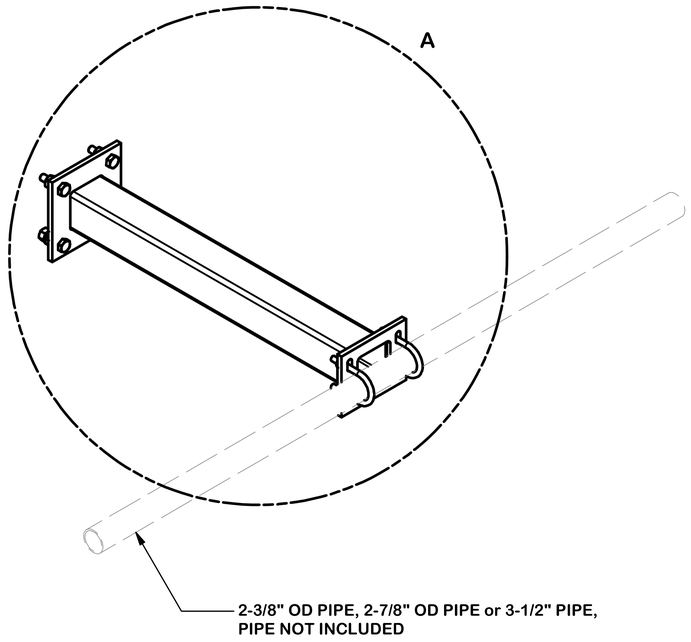
DESCRIPTION: 2' STAND-OFF ANTENNA WALL MOUNT, SITE PRO 1

SITE PRO 1 — A valmont COMPANY

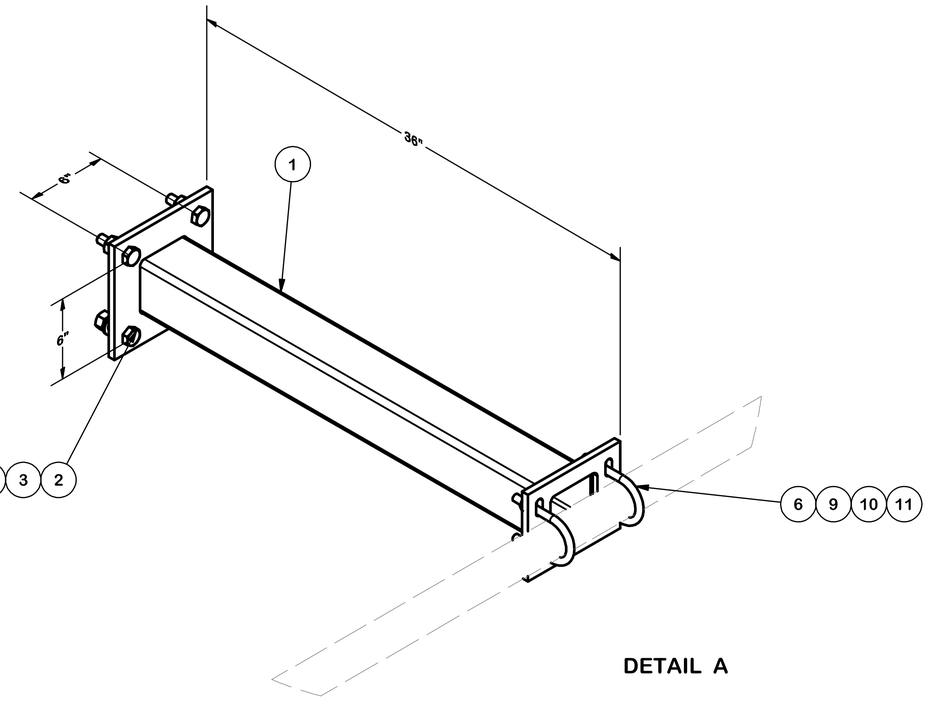
Engineering Support Team: 1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4714	RH18 3/23/2010		MM02	1 OF 1
CLASS 81 / SUB 01	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 5/10/2010	DWG. NO.: MM02	



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-WWM03	3' STAND-OFF ARM / WALL MOUNT		40.14	40.14
2	4	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	1.34
3	4	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.14
4	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
5	4	A58NUT	5/8" HDG A325 HEX NUT		0.13	0.52
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	1.31
7	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.70	1.39
8	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	1.54
9	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
10	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
11	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	39.27



DETAIL A

TOLERANCE NOTES

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

DESCRIPTION
3' STAND-OFF
ANTENNA WAL MOUNT

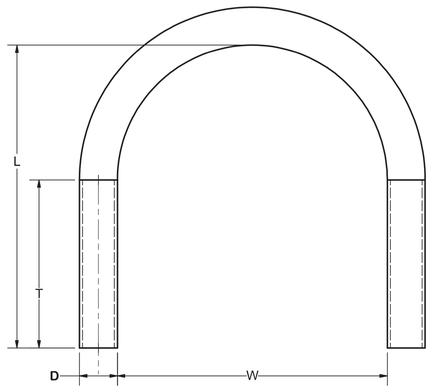
SITE PRO 1
A valmont COMPANY
Engineering Support Team:
1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4714	LMD 1/31/2013		MM03	1 OF 1
CLASS / SUB: 81 / 01	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 12/17/2012	DWG. NO.: MM03	

SITE PRO 1

U-bolts

A valmont COMPANY



Features: Includes nuts, locks, and flat washers, long thread lengths. Hot-dip galvanized.

Construction: SAE J429 Gr. 2. Coarse threads.

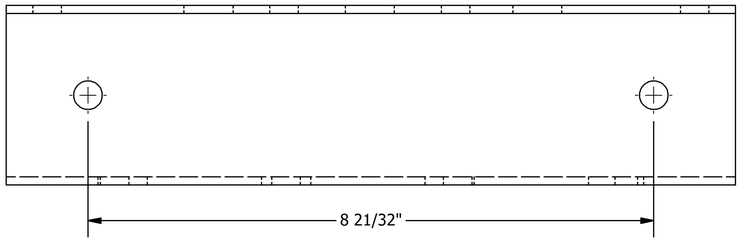
Design Criteria: Conforms to the minimum requirements as stated in SAE J429 (Latest Revision) Grade 2 Stud, Rolled or Cut CNC threads. SAE J429 Grade 2 (Yield Fy = 57 ksi / Tensile Fu = 74 ksi). All finished goods are Hot Dip Galvanized in accordance with ASTM A123 requirements.

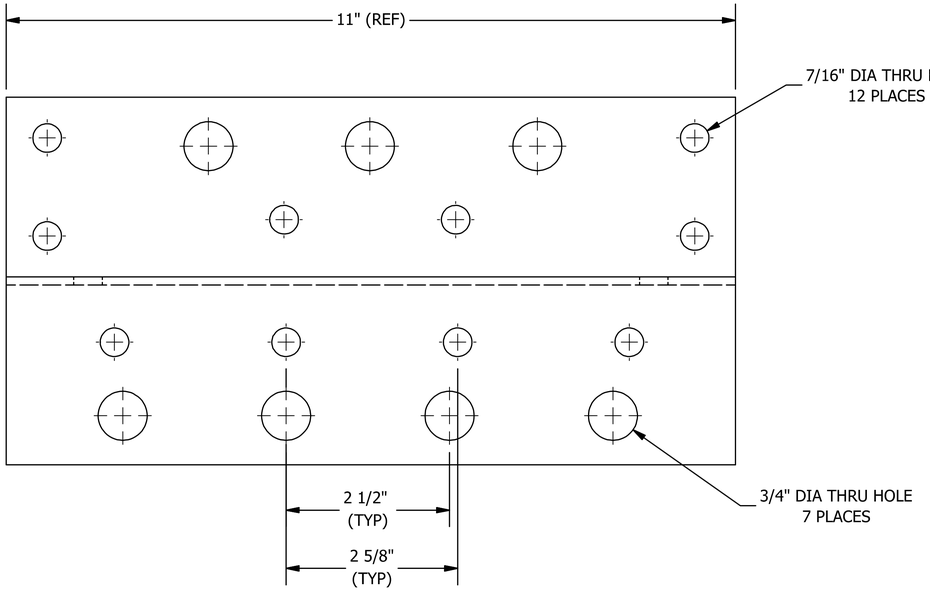
Part #	Diameter (D)	Width (W)	Length (L)	Thread (T)	Weight
UB3200	3/8″	2″	3″	1-1/4″	0.40 lb.
UB3212	3/8″	2-1/2″	3-5/8″	1-3/4″	0.45 lb.
UB3300	3/8″	3″	4-1/4″	2″	0.50 lb.
UB3312	3/8″	3-1/2″	4-3/4″	2″	0.50 lb.
UB3418	3/8″	4″	5-3/4″	2-1/2″	0.60 lb.
UB1400	1/2″	2″	4″	2″	0.65 lb.
UB1212	1/2″	2-1/2″	4-1/2″	2″	0.65 lb.
UB1300	1/2″	3″	5″	2″	0.70 lb.
UB1358	1/2″	3-5/8″	5-1/2″	3″	0.75 lb.
UB1306	1/2″	3-5/8″	6″	3″	0.80 lb.
UB1418	1/2″	4-1/8″	6″	3″	0.90 lb.
UB1458	1/2″	4-5/8″	7″	3″	0.90 lb.
UB5258	5/8″	2-5/8″	4-1/2″	2″	1.20 lb.
UB5358	5/8″	3-5/8″	6″	3″	1.45 lb.
UB5458	5/8″	4-5/8″	7″	3″	1.60 lb.

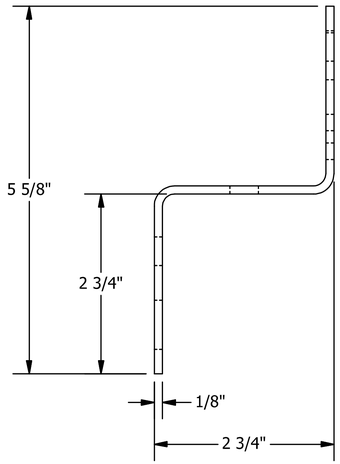
valmont
PiROD
MICROFLECT

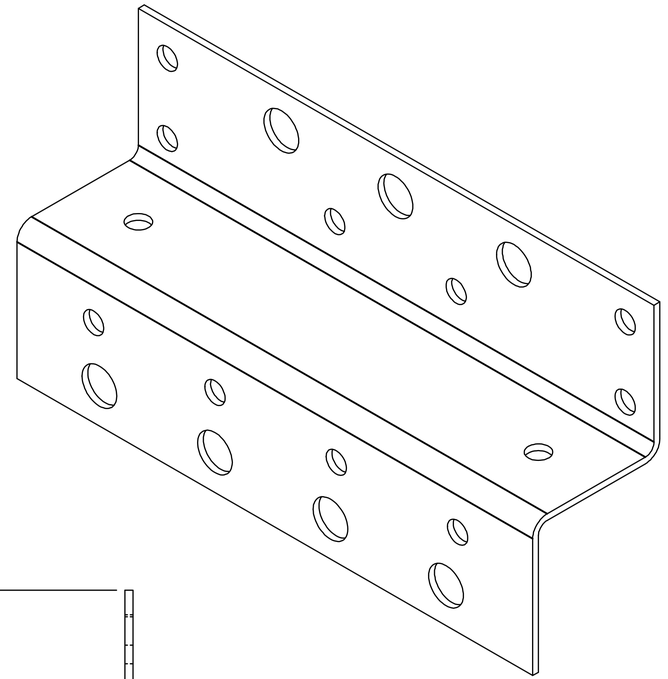
New York, NY 888-438-7761
Los Angeles, CA 888-776-1937
Salem, OR 888-880-9191
Atlanta, GA 866-901-0603
Plymouth, IN 888-753-7446
Dallas, TX 888-809-5151

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	ZB12	1/8" MILL PLATE (Fy=35 Ksi Min)	11 in	3.16	3.16









TOLERANCE NOTES

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

DESCRIPTION
Z-BRACKET FOR 4 RUNS
GALVANIZED

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	KC8 5/17/2012		ZB12	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	CEK 7/11/2012	ZB12


TRIANGLE
BLDG


WINTER & POND
BUILDING 1900
THE TRIANGLE CLUB
1947
COCKTAILS
INTERNET
GAMES & SNACKS
THIRD GENERATION FAMILY BUSINESS
TRIANGLE CLUB
JUNEAU, ALASKA
Front St
S. FRANKLIN ST.
UNITED STATES POSTAL SERVICE


CAPITAL
BUS STOP
juneaucapitaltransit.org
NARROWS
Franklin


WE ARE
THE MANY
VOICES OF
JUNEAU
JUNEAU VOICES
WE ARE FORAGERS HUNTERS & FISHERS
Lucky Lady


WE ARE WATER PEOPLE
GEORGE'S
JEWELRY & GIFTS
Lucky Lady
WE ARE
ALASKA'S
CAPITAL
JUNEAU VIBES
DO NOT ENTER
FERRY WAY
PIER 49
Alaska Waste


FDC
OPEN
OPEN
TAKU TRADING
NORTHSTAR GIFTS
BIRCH TREE GALLERY


WE ARE WATER PEOPLE
ALASKA SHIRT COMPANY
F-150
Ford
ALASKA
KCK 850


YIELD
WE ARE
IN AWE OF THIS
JUNEAU VOICES
Coca-Cola
RED DOG SALOON
RED DOG
SALOON
MANLA SQUARE MALL
ALPACA
WE ARE
WHALERS
HUNTERS
FISHERS
507