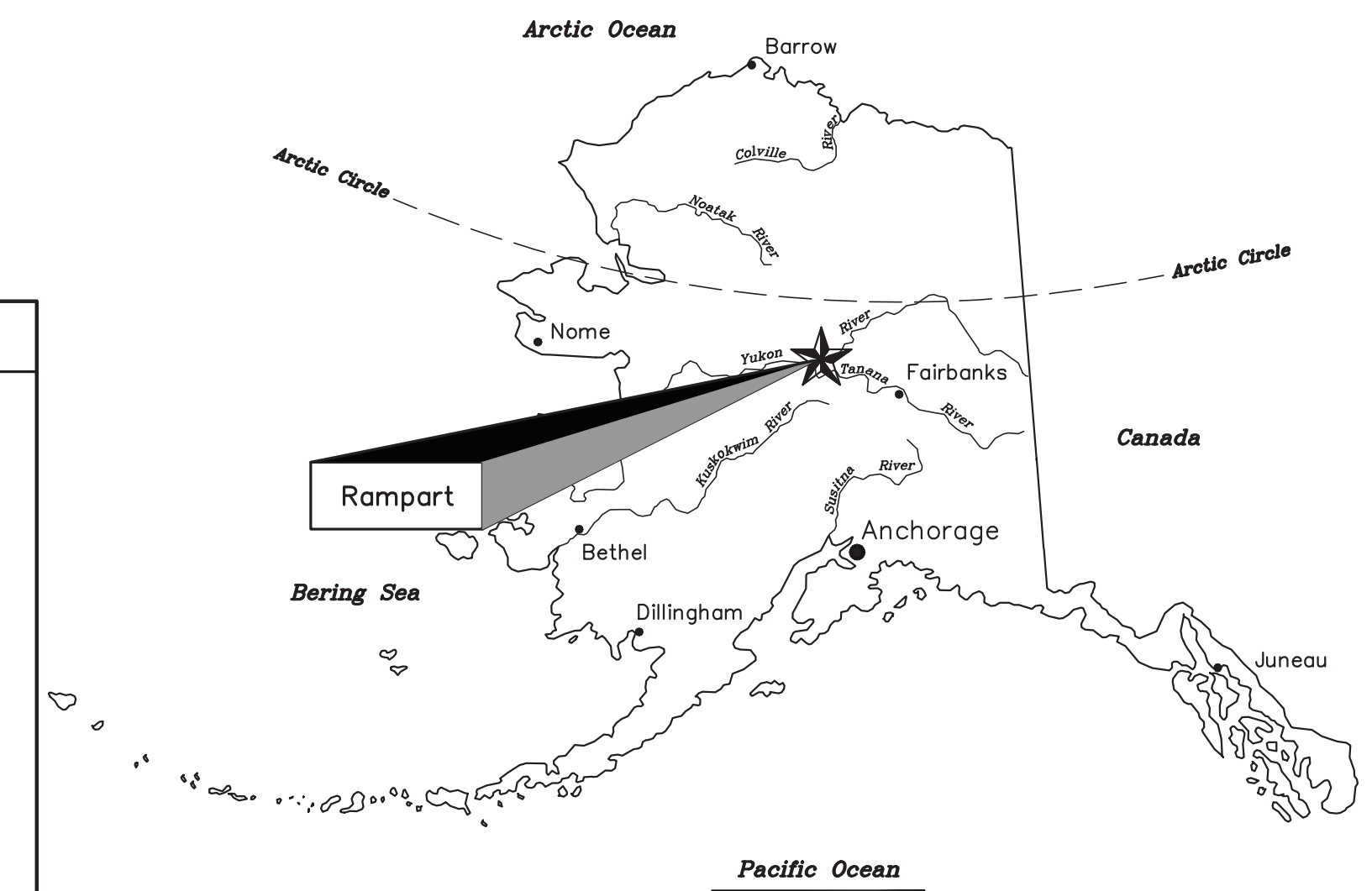


# RAMPART POWER SYSTEM UPGRADE PROJECT

## ON SITE CONSTRUCTION



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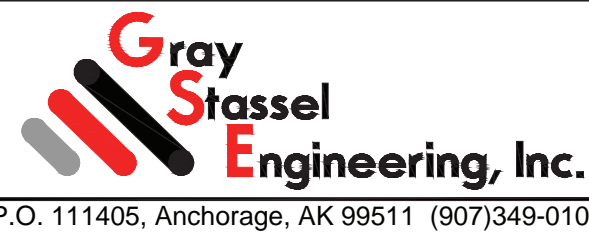
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E12.2	DISTRIBUTION PLAN (2 OF 4)
E12.3	DISTRIBUTION PLAN (3 OF 4)
E12.4	DISTRIBUTION PLAN (4 OF 4)

**THIS DRAWING SET INCLUDES DRAWINGS THAT SHOW WORK THAT IS INCLUDED IN THIS CONTRACT AND REFERENCE DRAWINGS THAT SHOW WORK PERFORMED UNDER THE PRIOR MODULE ASSEMBLY CONTRACT. SEE RED NOTES ON EACH SHEET FOR DELINEATION OF SCOPE.**

**THIS DRAWING SET SHOWS WORK THAT IS UNDER THE BASE BID AND ADDITIVE ALTERNATES. ALL WORK SHOWN IS INCLUDED IN THE BASE BID UNLESS SPECIFICALLY INDICATED AS ADDITIVE ALTERNATE.**

1	UPDATED FOR CIVIL REDESIGN AND ADD SCHOOL HEAT RECOVERY	1/9/24	BCG
REV.	DESCRIPTION	DATE	BY
 <b>ALASKA ENERGY AUTHORITY</b>			
PROJECT: <b>RAMPART POWER SYSTEM UPGRADE</b>			
TITLE: <b>ON SITE CONSTRUCTION SCHEDULE OF DRAWINGS</b>			
DRAWN BY: BCG		SCALE: NO SCALE	
DESIGNED BY: BCG		DATE: 8/10/22	
FILE NAME: RAM PP G1		SHEET:	
PROJECT NUMBER:		<b>G1.0</b>	

REVISION #1  
ISSUED  
JANUARY  
2024



DRAWN BY: BCG  
 DESIGNED BY: BCG  
 FILE NAME: RAM PP G1  
 PROJECT NUMBER:



File: J:\JobsData\72310.00 Rampart Rpsu\00 Cadd 2019\01 Working Set\01 Civil\72310.00 VICINITY MAP1.dwg Plot Date: 1/4/2024 6:36 PM



NEW POWER  
PLANT MODULE  
PROJECT SITE

1  
C1.2

1

**PROJECT VICINITY MAP**

GRAPHIC

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT



RURAL POWER HOUSE UPGRADES  
PROJECT VICINITY MAP  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

Plot 1/4/24  
Date  
Designed NCP  
Drawn NCP  
Approved NCP

Sheet No. **G1.1**





Plot Date: 1/5/2024 4:52 PM

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**HORIZONTAL & VERTICAL CONTROL STATEMENT**

**COORDINATE SYSTEM:**  
THE COORDINATE SYSTEM USED FOR THIS PROJECT WAS DEVELOPED BY THE CRW ENGINEERING GROUP AND IS A LOCAL LOW DISTORTION PROJECTION (LDP) SURFACE GRID COORDINATE SYSTEM – "AK 83 RAMPART".

**BASIS OF COORDINATES:**  
CRW ESTABLISHED THE BASIS OF COORDINATES BY AVERAGING 2 DAYS OF STATIC GPS AND PROCESSED ON NGS – ONLINE POSITION USER SERVICE (OPUS), FOR #1. THE AVERAGE OPUS POSITION IS: LATITUDE 65° 30' 11.55857" N, LONGITUDE 150° 10' 19.64491" W (NAD 83 (2011)), AND AS COMPUTED BY NAVD88 GEOID 12B ELEVATION IS 339.56'.

**NGS BASE STATIONS USED FOR OPUS PROCESSING**

PID	DESIGNATION	LATITUDE	LONGITUDE
AF9534	FAIR GILMORE CREEK OBS CORS ARP	N645840.794	W1472957.158
DO1800	AB36 MANLEY_HOTAK2006 CORS ARP	N650149.438	W1504438.240

**CRW LOCAL COORDINATE SYSTEM INFORMATION AND LDP PARAMETERS:**

NAME: RAMPART GROUND TM  
 LINEAR UNIT: US SURVEY FEET  
 GEODETIC DATUM: NAD83(2011)  
 ELLIPSOID: GRS80  
 PROJECTION: TRANSVERSE MERCATOR  
 SCALE FACTOR = 1.00001755458

LATITUDE OF ORIGIN: 65° 30' 11.55857" N  
 CENTRAL MERIDIAN: 150° 10' 19.64491" W  
 FALSE NORTHING = 50000.00  
 FALSE EASTING = 70000.00

CRW POINT #1 IS THE BASIS OF COORDINATES WITH GRID COORDINATES OF NORTHING 70,000.00, EASTING 50,000.00.

ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED TO MINIMIZE THE DIFFERENCE BETWEEN PROJECTED (GRID) DISTANCES AND HORIZONTAL ("GROUND") DISTANCES AT THE TOPOGRAPHIC SURFACE WITHIN THE DESIGN AREA OF THIS COORDINATE SYSTEM. THE BASIS OF BEARINGS IS GEODETIC NORTH. NOTE THAT THE GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

\*\*AERIAL IMAGE WAS FLOWN BY LOW ALTITUDE UAV IN JUNE 2018 FOR THE SEWER LAGOON IMPROVEMENTS. GROUND CONDITIONS AND LOCATION OF STORAGE AND IMPROVEMENTS MAY HAVE CHANGED. PHOTO IS FOR BACKGROUND INFORMATION ONLY.

1

**SURVEY CONTROL**

SCALE GRAPHIC

HORIZONTAL CONTROL					
POINT NO	NORTHING	EASTING	LATITUDE	LONGITUDE	DESCRIPTION
1	50000.0000	70000.0000	N065° 30' 11.5586"	W150° 10' 19.6449"	SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, FLUSH WITH GROUND.
2	49603.5593	70176.3886	N065° 30' 07.6572"	W150° 10' 15.4636"	SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, FLUSH WITH GROUND. ** NOT SHOWN ON MAP **
501	50178.3216	69982.5903	N065° 30' 13.3134"	W150° 10' 20.0576"	SET 5/8" X 30" REBAR, 6" ABOVE GROUND, ALONG THE SOUTH PROPERTY LINE OF TRACT 2A, LOT 2 USS 3667.
502	50113.9137	69903.9163	N065° 30' 12.6796"	W150° 10' 21.9227"	SET 5/8" X 30" REBAR, 6" ABOVE GROUND, ALONG THE SOUTH PROPERTY LINE OF TRACT 2A, LOT 2 USS 3667.
503	50082.2446	69865.2890	N065° 30' 12.3679"	W150° 10' 22.8384"	SET 5/8" X 30" REBAR, 6" ABOVE GROUND, ALONG THE SOUTH PROPERTY LINE OF TRACT 2A, LOT 2 USS 3667.
606	50050.5742	69826.5912	N065° 30' 12.0563"	W150° 10' 23.7558"	FOUND 1 1/2" BRASS CAP, 0.1' ABOVE GROUND, PLUMB, LOCATED AT INTERSECTING LINES NEAR CENTER OF CAP.
607	50301.5862	70133.0723	N065° 30' 14.5264"	W150° 10' 16.4902"	FOUND 1 1/2" BRASS CAP, 0.1' ABOVE GROUND, PLUMB, LOCATED AT INTERSECTING LINES NEAR CENTER OF CAP.
608	50243.1214	69904.3031	N065° 30' 13.9511"	W150° 10' 21.9136"	FOUND 3 1/4" ALUMINUM CAP ON 2 1/2" ALUMINUM POST, 0.4' ABOVE GROUND, PLUMB, LOCATED AT INTERSECTING LINES NEAR CENTER OF CAP.
609	50186.7486	69892.7939	N065° 30' 13.3963"	W150° 10' 22.1864"	FOUND 3 1/4" ALUMINUM CAP ON 2 1/2" ALUMINUM POST, 0.3' ABOVE GROUND, PLUMB, LOCATED AT INTERSECTING LINES NEAR CENTER OF CAP.
610	50278.5456	69639.3097	N065° 30' 14.2996"	W150° 10' 28.1957"	FOUND 1 1/2" BRASS CAP, FLUSH WITH GROUND, PLUMB, LOCATED AT INTERSECTING LINES NEAR CENTER OF CAP.
612	50530.4562	69944.8166	N065° 30' 16.7787"	W150° 10' 20.9532"	FOUND 2" ALUMINUM POST, .8' BELOW GROUND, BENT AND MISSING CAP, SHOT AT ENTRY POINT.

LEGEND	
	EXISTING BRASS CAP
	EXISTING ALUMINUM CAP
	TEMPORARY BENCHMARK
	EXISTING REBAR OR IRON PIPE
	CONTROL SET BY CRW
	CONTROL POINT NUMBER

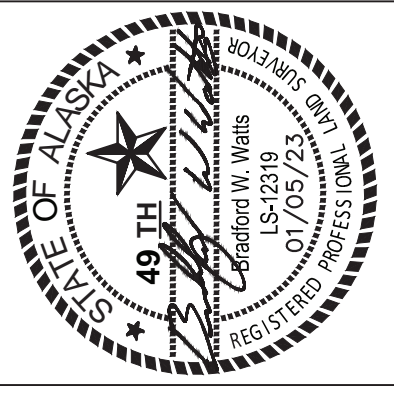
VERTICAL CONTROL					
POINT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	50000	70000	339.56	SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, FLUSH WITH GROUND.	
2	49604	70176	384.52	SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR, FLUSH WITH GROUND. ** NOT SHOWN ON MAP **	
351	50248	69955	320.02	SET YELLOW BENCHMARK NAIL WITH TAG ON THE WEST SIDE OF ELECTRIC POWERPOLE (C4-U), 1' ABOVE GROUND.	
352	50095	70006	345.84	CHISELED X ON TOP OF METAL PILE PLATE, AT NORTHWEST CORNER OF PILOT POINT SCHOOL BUILDING.	
353	50360	69981	315.84	CHISELED X ON TOP OF METAL PILE PLATE, AT SOUTHWEST CORNER OF WASHETERIA BUILDING, BELOW SOUTHWEST ENTERENCE	

**NOTES**

- ALL COORDINATES AND DIMENSIONS SHOWN ARE IN U.S. SURVEY FEET.
- FIELD SURVEY WAS CONDUCTED NOVEMBER 15-17 2021 BY BRYANT BURGIN AND LUKE BELL.
- FIELD SURVEY NOTES ARE CONTAINED IN FIELD BOOK: 212 PAGE 44-60
- TEMPORARY BENCH MARKS 351-353 WERE ESTABLISHED AND LEVELED TO FROM POINT 1 USING DNA10 DIGITAL LEVEL.
- ALL POINTS SHOWN HEREON WERE ESTABLISHED BY STATIC AND/OR RTK OCCUPATIONS.
- WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED OR RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).
- ALL MONUMENTS ARE SUBJECT TO SEASONAL DISTURBANCE. ELEVATIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- THE BACKGROUND LOT INFORMATION SHOWN IS FOR ORIENTATION PURPOSES ONLY AND DOES NOT REPRESENT ROW.

**SURVEYOR'S CERTIFICATE**

I, BRADFORD W. WATTS, HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, AND THAT THIS DRAWING REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT THE MONUMENTS SHOWN HEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT TO THE EXTENT SHOWN HEREON.



RURAL POWER HOUSE UPGRADES  
SURVEY CONTROL SHEET  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

Plot Date: 1/5/24  
 Designed: NCP  
 Drawn: NCP  
 Approved: NCP

Sheet No. **G1.2**

**ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT**



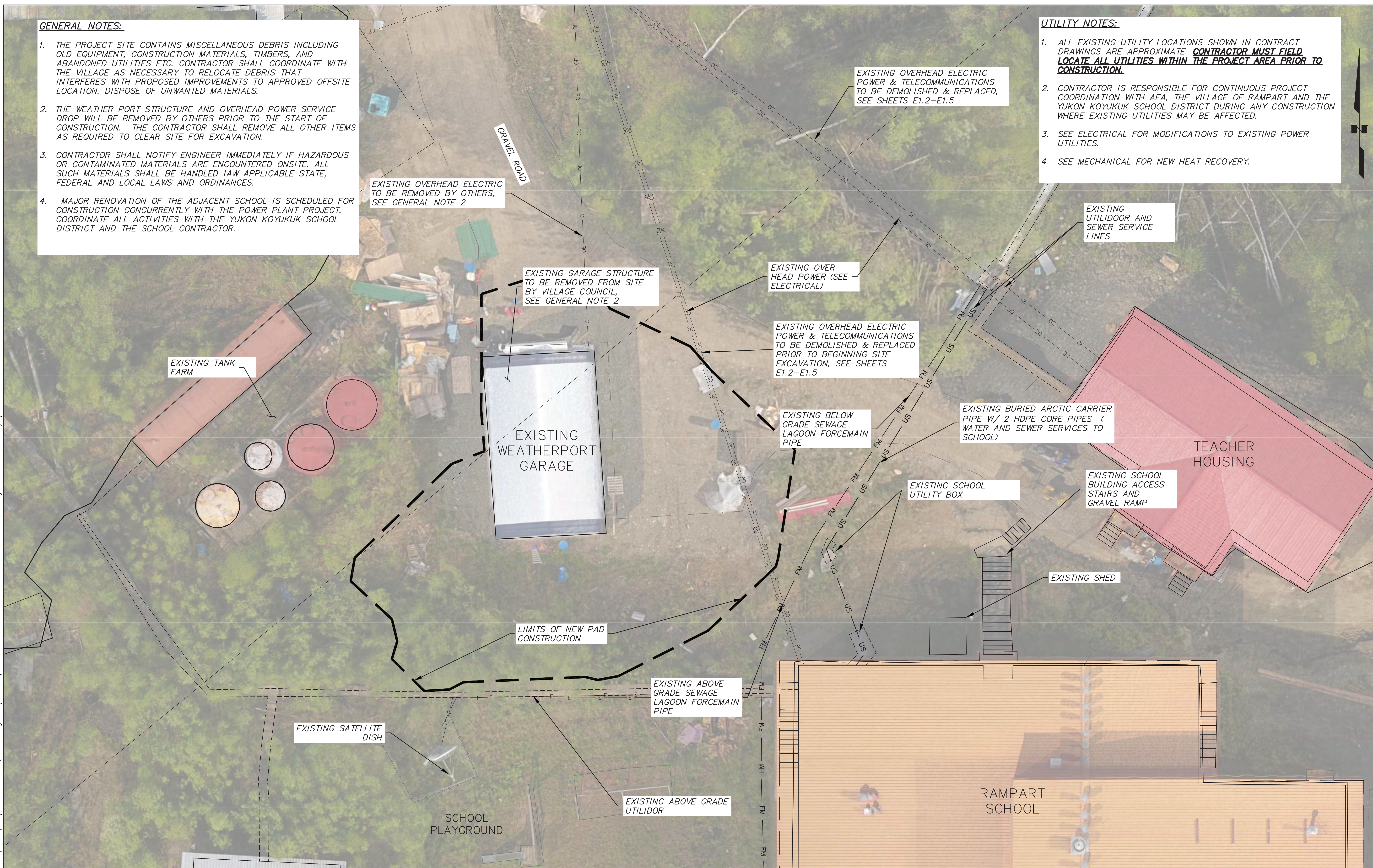
File: J:\JobsData\72310.00 Rampart Rpsa\00 Cadd 2019\01 Working Set\01 Civil\72310.00 EXISTING SITE AND DEMOLITION PLAN.dwg Plot Date: 1/4/2024 6:37 PM

**GENERAL NOTES:**

1. THE PROJECT SITE CONTAINS MISCELLANEOUS DEBRIS INCLUDING OLD EQUIPMENT, CONSTRUCTION MATERIALS, TIMBERS, AND ABANDONED UTILITIES ETC. CONTRACTOR SHALL COORDINATE WITH THE VILLAGE AS NECESSARY TO RELOCATE DEBRIS THAT INTERFERES WITH PROPOSED IMPROVEMENTS TO APPROVED OFFSITE LOCATION. DISPOSE OF UNWANTED MATERIALS.
2. THE WEATHER PORT STRUCTURE AND OVERHEAD POWER SERVICE DROP WILL BE REMOVED BY OTHERS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL OTHER ITEMS AS REQUIRED TO CLEAR SITE FOR EXCAVATION.
3. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED ONSITE. ALL SUCH MATERIALS SHALL BE HANDLED IAW APPLICABLE STATE, FEDERAL AND LOCAL LAWS AND ORDINANCES.
4. MAJOR RENOVATION OF THE ADJACENT SCHOOL IS SCHEDULED FOR CONSTRUCTION CONCURRENTLY WITH THE POWER PLANT PROJECT. COORDINATE ALL ACTIVITIES WITH THE YUKON KOYUKUK SCHOOL DISTRICT AND THE SCHOOL CONTRACTOR.

**UTILITY NOTES:**

1. ALL EXISTING UTILITY LOCATIONS SHOWN IN CONTRACT DRAWINGS ARE APPROXIMATE. **CONTRACTOR MUST FIELD LOCATE ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION.**
2. CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS PROJECT COORDINATION WITH AEA, THE VILLAGE OF RAMPART AND THE YUKON KOYUKUK SCHOOL DISTRICT DURING ANY CONSTRUCTION WHERE EXISTING UTILITIES MAY BE AFFECTED.
3. SEE ELECTRICAL FOR MODIFICATIONS TO EXISTING POWER UTILITIES.
4. SEE MECHANICAL FOR NEW HEAT RECOVERY.



RURAL POWER HOUSE UPGRADES  
EXISTING SITE & DEMOLITION PLAN  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

Plot Date: 1/4/24	Designed: NCP	Drawn: NCP	Approved: NCP
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Sheet No. **C1.1**

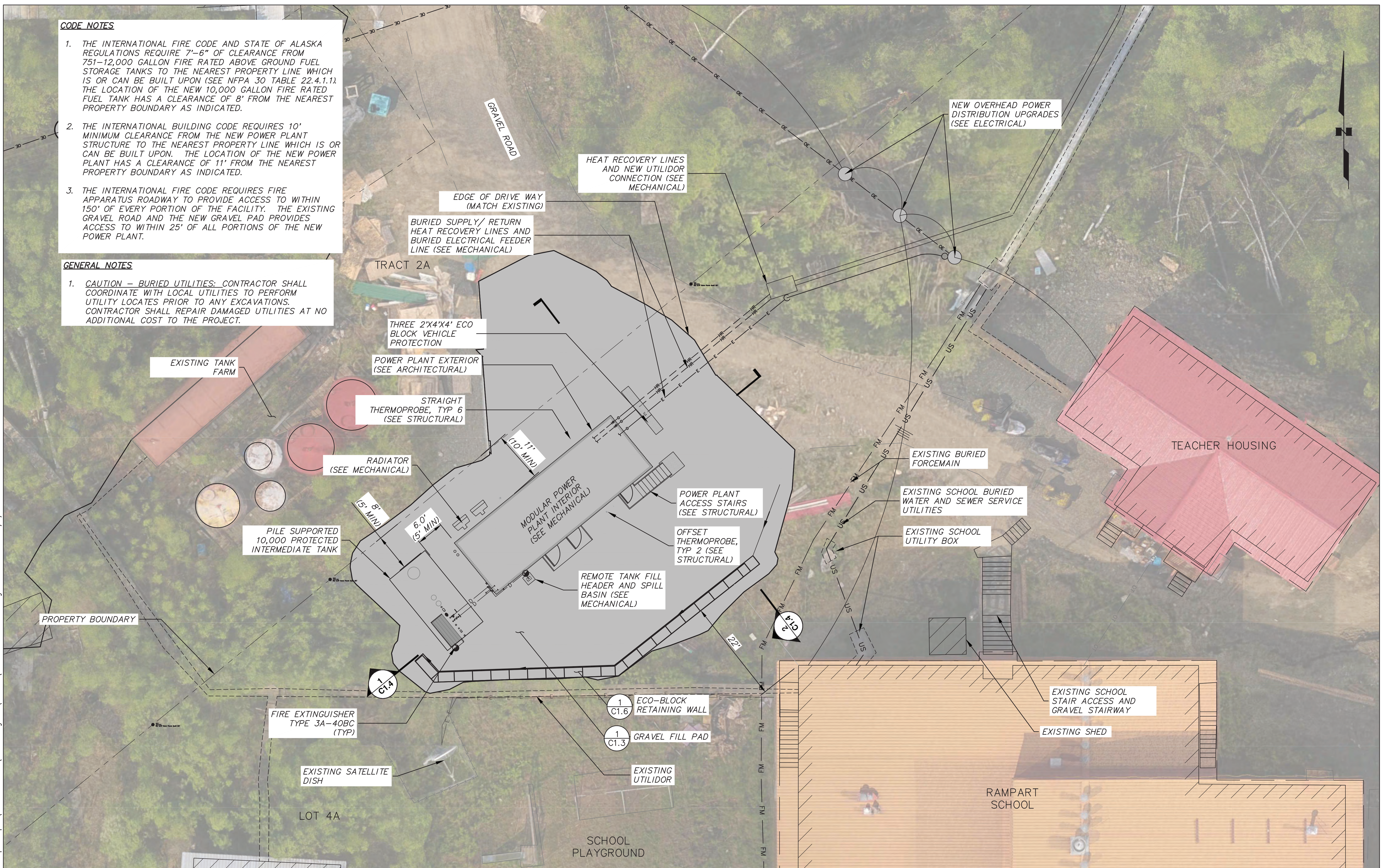
**1 EXISTING SITE & DEMOLITION PLAN**  
GRAPHIC



ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT



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**CODE NOTES**

1. THE INTERNATIONAL FIRE CODE AND STATE OF ALASKA REGULATIONS REQUIRE 7'-6" OF CLEARANCE FROM 751-12,000 GALLON FIRE RATED ABOVE GROUND FUEL STORAGE TANKS TO THE NEAREST PROPERTY LINE WHICH IS OR CAN BE BUILT UPON (SEE NFPA 30 TABLE 22.4.1.1). THE LOCATION OF THE NEW 10,000 GALLON FIRE RATED FUEL TANK HAS A CLEARANCE OF 8' FROM THE NEAREST PROPERTY BOUNDARY AS INDICATED.
2. THE INTERNATIONAL BUILDING CODE REQUIRES 10' MINIMUM CLEARANCE FROM THE NEW POWER PLANT STRUCTURE TO THE NEAREST PROPERTY LINE WHICH IS OR CAN BE BUILT UPON. THE LOCATION OF THE NEW POWER PLANT HAS A CLEARANCE OF 11' FROM THE NEAREST PROPERTY BOUNDARY AS INDICATED.
3. THE INTERNATIONAL FIRE CODE REQUIRES FIRE APPARATUS ROADWAY TO PROVIDE ACCESS TO WITHIN 150' OF EVERY PORTION OF THE FACILITY. THE EXISTING GRAVEL ROAD AND THE NEW GRAVEL PAD PROVIDES ACCESS TO WITHIN 25' OF ALL PORTIONS OF THE NEW POWER PLANT.

**GENERAL NOTES**

1. CAUTION - BURIED UTILITIES: CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES TO PERFORM UTILITY LOCATES PRIOR TO ANY EXCAVATIONS. CONTRACTOR SHALL REPAIR DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE PROJECT.

1 **PROJECT SITE PLAN**  
GRAPHIC



RURAL POWER HOUSE UPGRADES  
PROJECT SITE PLAN  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

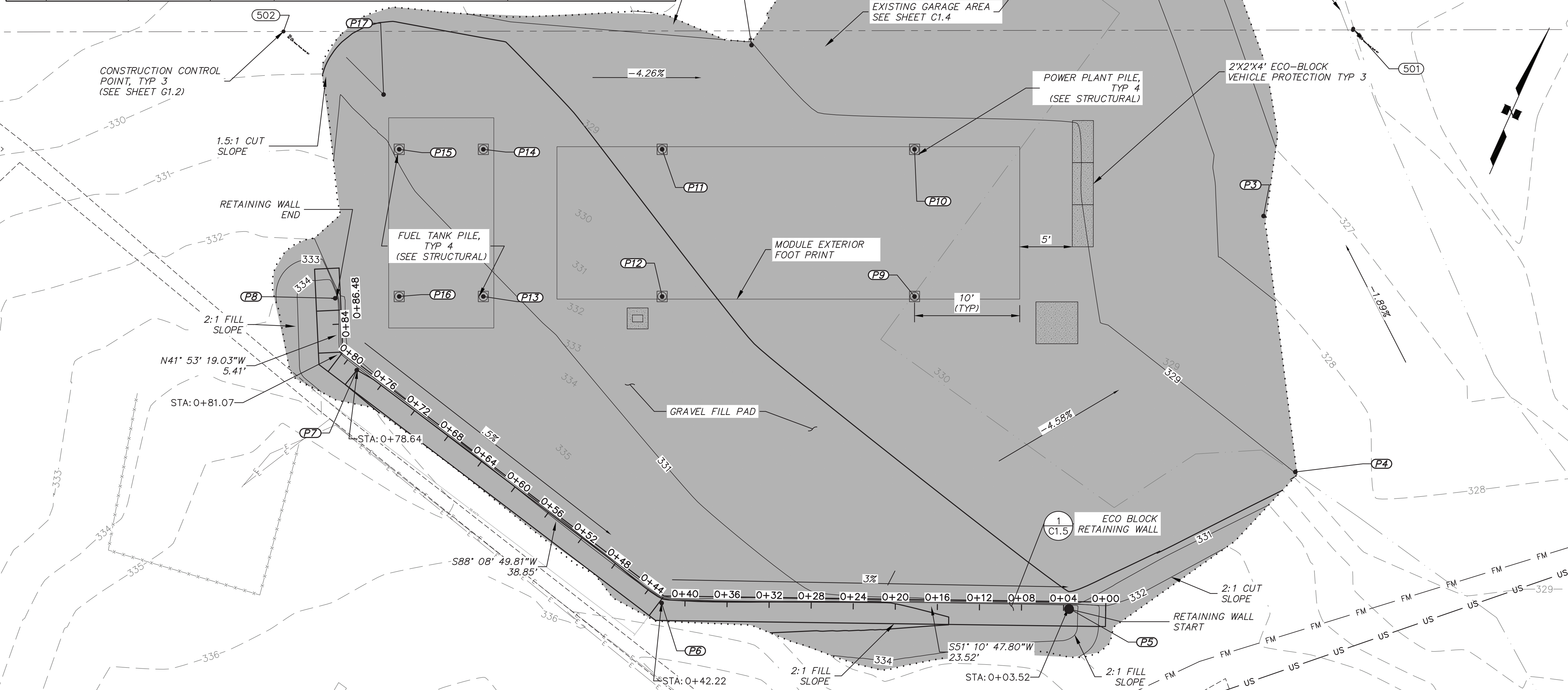
Plot: 1/4/24  
Date: 1/4/24  
Designed: NCP  
Drawn: NCP  
Approved: NCP

Sheet No. **C1.2**

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT



GRADING POINT TABLE					
POINT	EASTING	NORTHING	ELEVATION	POINT DESCRIPTION	NOTES
1	69936.8929'	50176.1320'	326.778'	EDGE OF PAD	MATCH EXISTING GRADE
2	69958.2671'	50174.4536'	327.033'	EDGE OF PAD	MATCH EXISTING GRADE
3	69987.2023'	50159.2484'	327.538'	EDGE OF PAD	MATCH EXISTING GRADE
4	70004.9456'	50142.2959'	328.761'	EDGE OF PAD	-
5	69996.4436'	50118.6210'	334.433'	RETAINING WALL START, TOP OF WALL	SEE DETAILS
6	69966.1570'	50094.5306'	335.499'	RETAINING WALL ANGLE POINT, TOP OF WALL	SEE DETAILS
7	69929.6917'	50093.3577'	335.000'	RETAINING WALL ANGLE POINT, TOP OF WALL	SEE DETAILS
8	69923.7798'	50097.3593'	334.883'	END OF RETAINING WALL, TOP OF WALL	SEE DETAILS
9	69966.3394'	50132.3298'	329.595'	PILE LOCATION	TOP OF PILE CAP 332.50'
10	69957.4850'	50143.1741'	329.520'	PILE LOCATION	TOP OF PILE CAP 332.50'
11	69938.8947'	50127.9951'	330.288'	PILE LOCATION	TOP OF PILE CAP 332.50'
12	69947.7491'	50117.1508'	330.507'	PILE LOCATION	TOP OF PILE CAP 332.50'
13	69934.5811'	50106.3990'	331.155'	PILE LOCATION	TOP OF PILE CAP 332.50'
14	69925.7266'	50117.2433'	330.849'	PILE LOCATION	TOP OF PILE CAP 332.50'
15	69919.5299'	50112.1836'	331.099'	PILE LOCATION	TOP OF PILE CAP 332.50'
16	69928.3843'	50101.3393'	331.435'	PILE LOCATION	TOP OF PILE CAP 332.50'
17	69915.0842'	50115.2839'	330.846'	EDGE OF PAD, RADIUS POINT R= 5'	-
18	69939.2074'	50141.0537'	329.769'	EDGE OF PAD	-
19	69937.6408'	50161.9850'	329.139'	EDGE OF PAD	-



1

**PROJECT SITE GRADING PLAN**

GRAPHIC

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT



File: J:\JobsData\72310.00 Rampart Rpsu\00 Cadd 2019\01 Working Set\01 Civil\72310.00 GRADING PLAN.dwg Plot Date: 1/4/2024 6:38 PM



RURAL POWER HOUSE UPGRADES  
PROJECT SITE GRADING PLAN  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

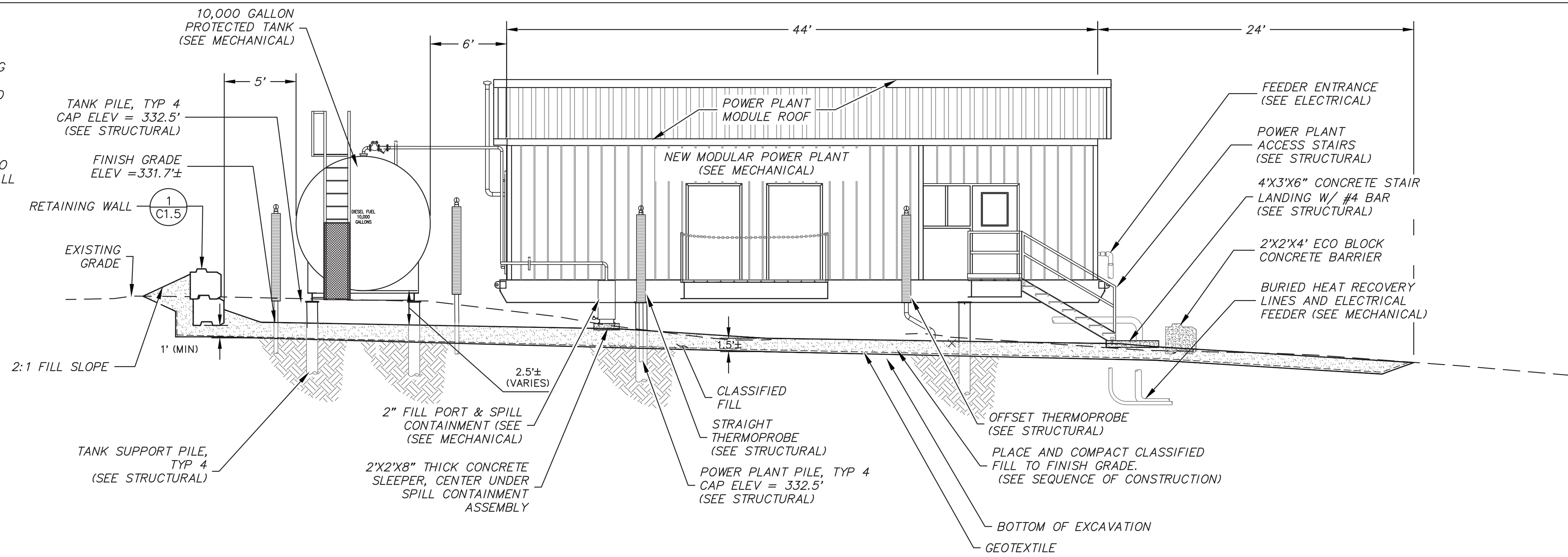
Plot: 1/4/24  
Date: 1/4/24  
Designed: NCP  
Drawn: NCP  
Approved: NCP

Sheet No. **C1.3**

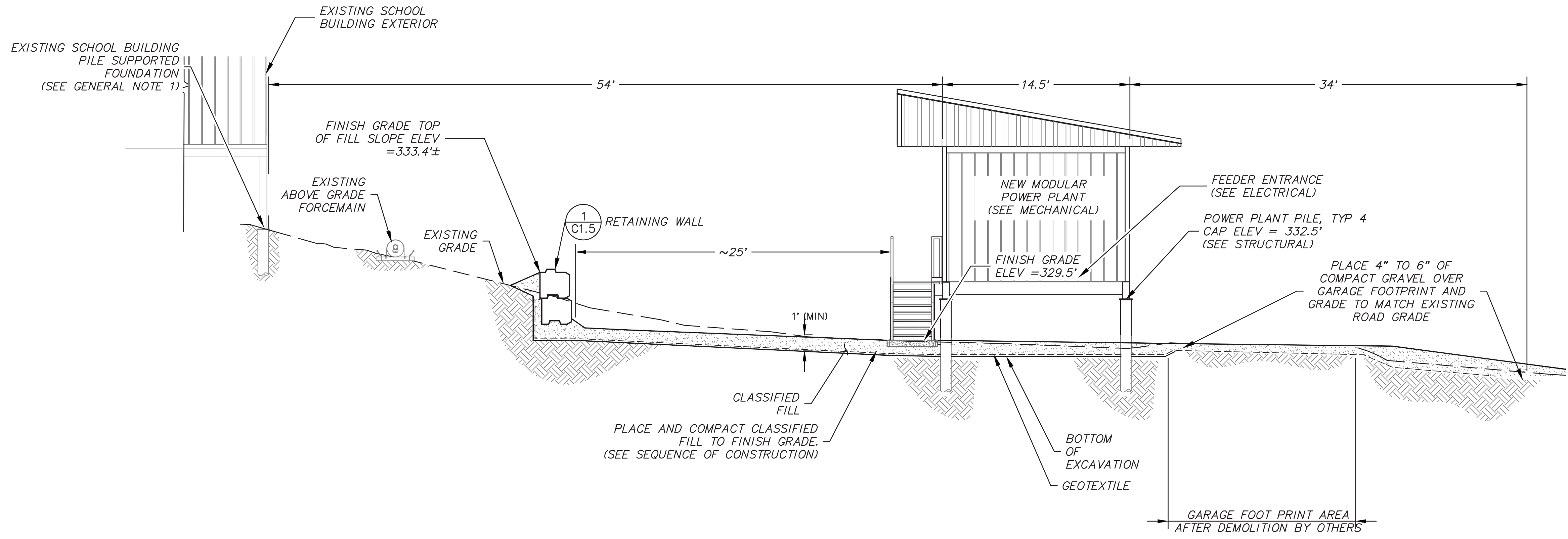


**GENERAL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES, INCLUDING FOUNDATIONAL PILING, BURIED UTILITIES AND BUILDING CONNECTIONS ADJACENT TO SITE.
2. CONTRACTOR TO EXCAVATE TO THE LIMITS SHOWN ON THIS SHEET AND ON SHEET C1.3. MATERIAL THAT BECOMES UNWORKABLE DUE TO EXPOSURE TO WEATHER OR TEMPERATURE SHALL BE REMOVED AND REPLACED WITH CLASSIFIED FILL AT NO COST TO THE OWNER.
3. CONTRACTOR SHALL INSTALL RETAINING WALL IN THE LOCATIONS SHOWN ON SHEET C1.3.



**1 POWER PLANT PAD SECTION**



**2 POWER PLANT PAD SECTION**

**SEQUENCE OF CONSTRUCTION:**

1. CLEAR AND GRUB EXISTING GROUND BENEATH PROPOSED PAD FOOTPRINT. EXCAVATE TO LIMITS SHOWN ON THIS SHEET AND C1.3.
2. REMOVE ALL UNSUITABLE MATERIALS AT THE BASE OF EXCAVATION AND PROOF COMPACT TO 95% MAX DRY DENSITY.
3. PLACE GEOTEXTILE FABRIC.
4. PLACE ECO BLOCK RETAINING WALL WHERE SHOWN ON SHEET C1.3. AND C1.5.
5. PLACE AND COMPACT CLASSIFIED PAD FILL MATERIAL (12" MIN). ALL CLASSIFIED FILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY FOR CLASSIFIED FILL PLACEMENT. SEE SPECIFICATIONS.
6. EXCAVATE CLASSIFIED FILL AND INSTALL CONCRETE SLEEPERS AND LANDINGS WHERE INDICATED ON STRUCTURAL AND MECHANICAL PLANS



RURAL POWER HOUSE UPGRADES  
PROJECT SECTIONS  
RAMPART, ALASKA

NO.	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	KRH	7/15/22
1	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

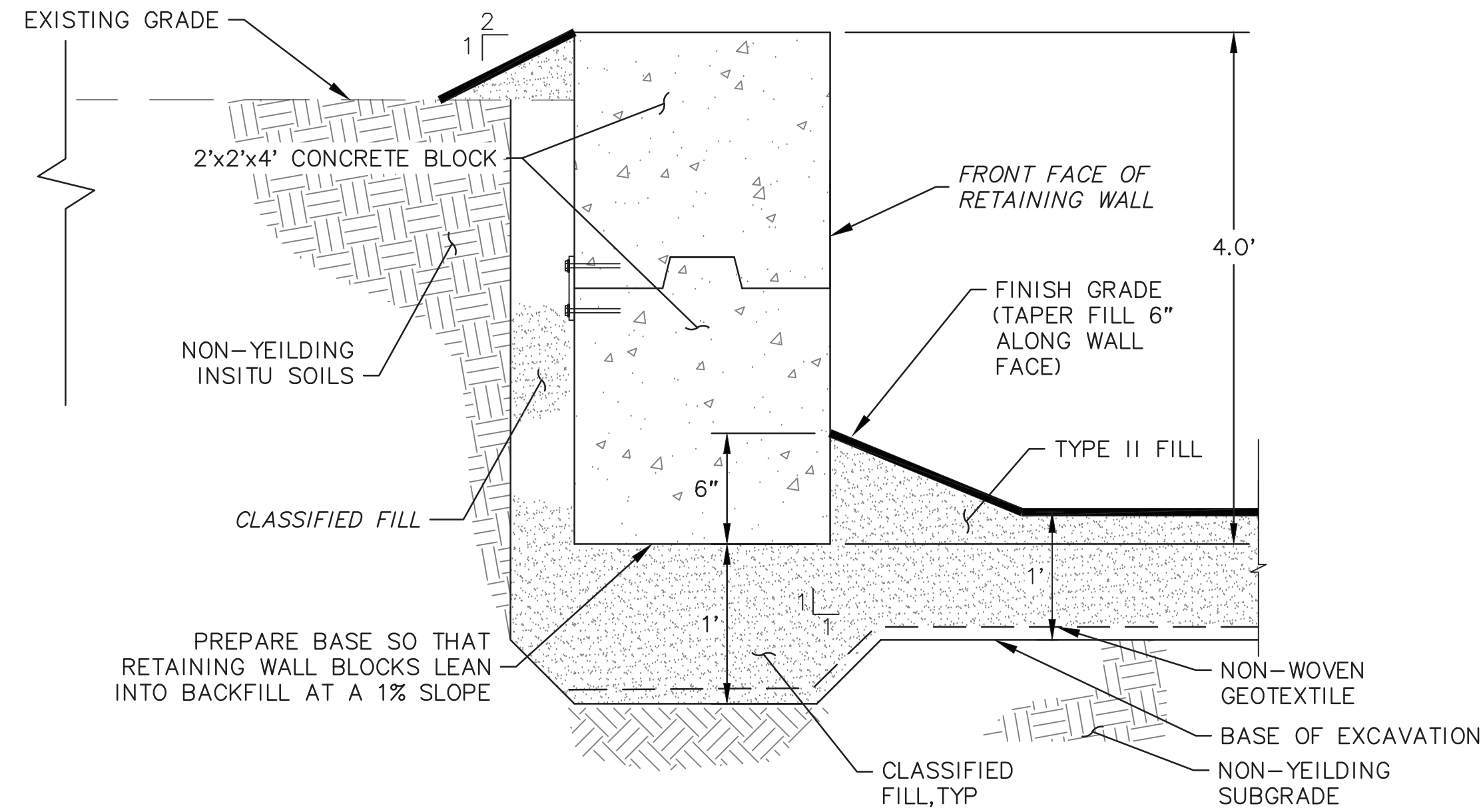
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Designed: NCP  
Drawn: NCP  
Approved: NCP

Sheet No. **C1.4**

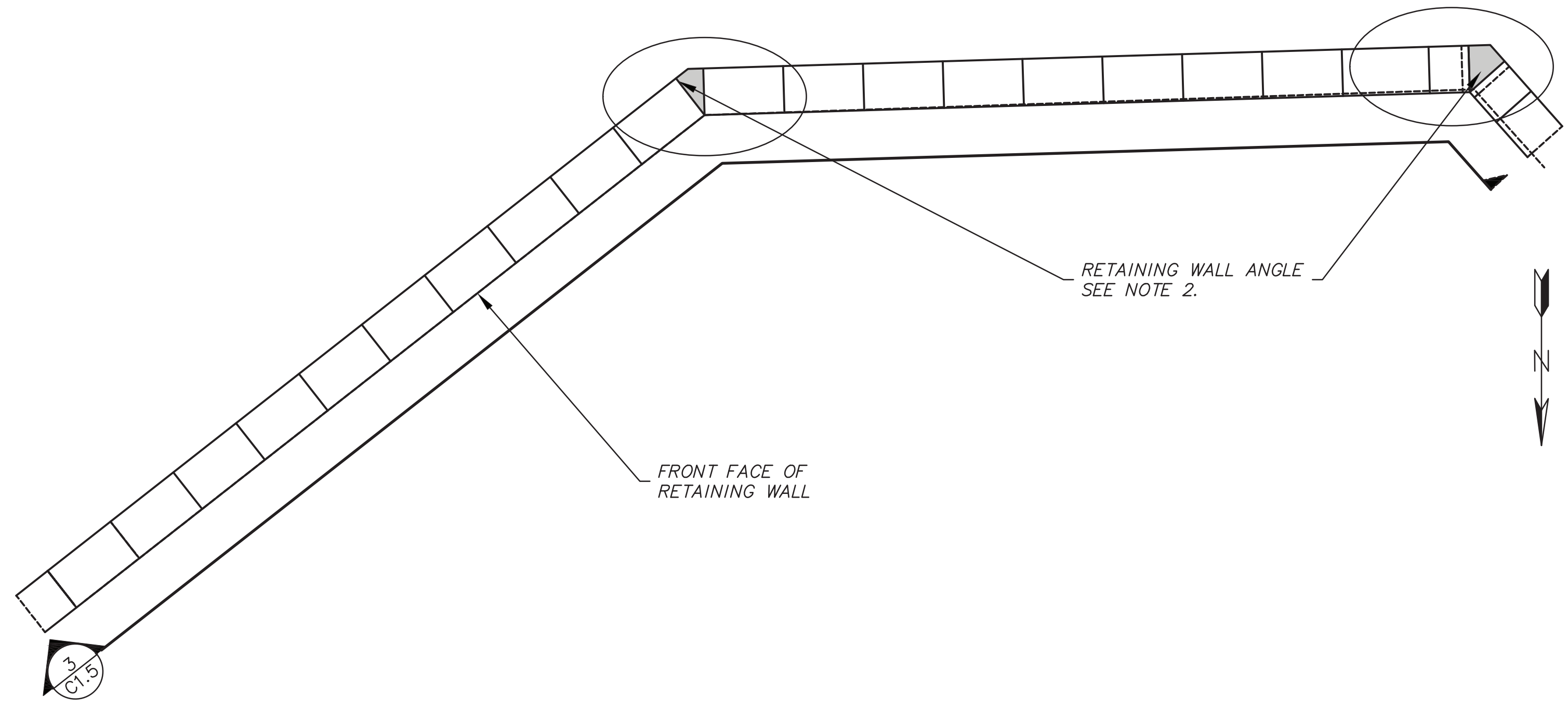
ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT

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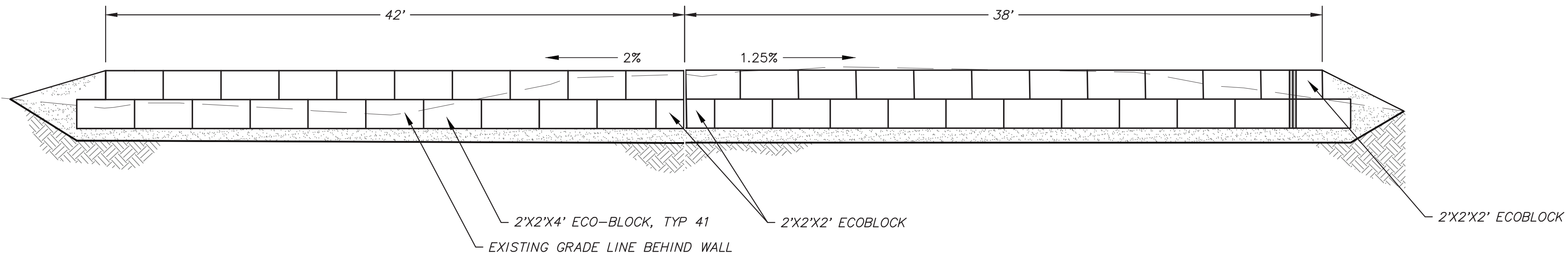
1 **RETAINING WALL DETAILS**  
GRAPHIC



2 **RETAINING WALL BLOCK PLAN**  
GRAPHIC

**NOTES**

1. CONTRACTOR SHALL PROCURE BLOCKS THAT MATCH THE DIMENSIONS OF THE BLOCKS SHOWN ON THIS SHEET.
2. PLACE CONCRETE SLURRY AT ANGLE POINTS TO HEIGHT OF THE WALL PRIOR TO BACKFILLING.
3. PROVIDE KNOB STYLE ECO BLOCKS, AVAILABLE AT FAIRBANKS MATERIALS INC.



3 **RETAINING WALL ELEVATION**  
NTS

File: J:\JobsData\72310.00 Rampart Rpsu\00 Cadd 2019\01 Working Set\01 Civil\72310.00 WALL DETAILS.dwg Plot Date: 1/5/2024 6:19 PM



RURAL POWER HOUSE UPGRADES  
RETAINING WALL DETAILS  
RAMPART, ALASKA

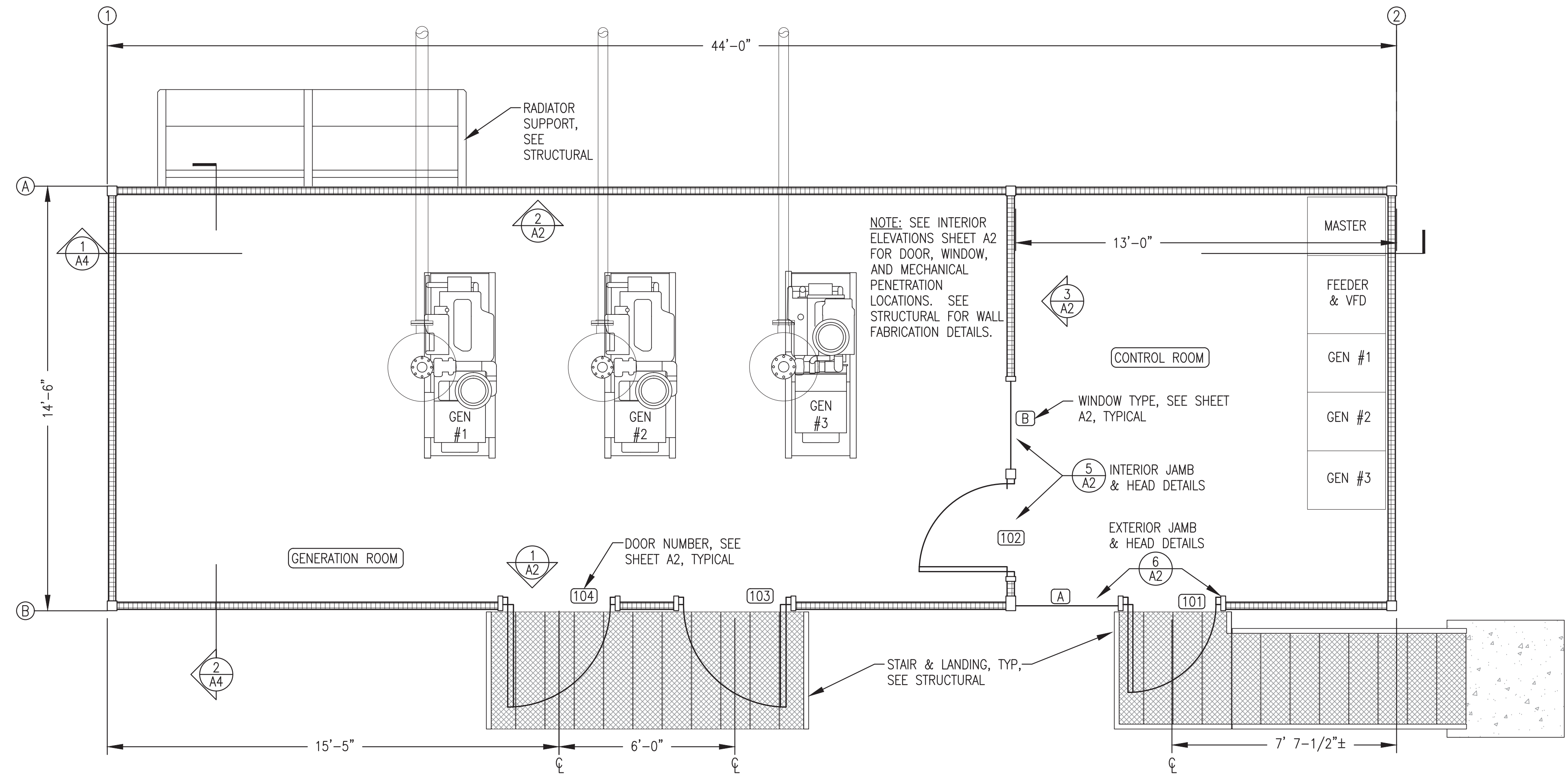
NO.	REVISION	BY	DATE
0	REV #1 - SCHOOL SITE CHANGES	NCP	1/04/24

Plot Date: 1/5/24  
Designed: NCP  
Drawn: NCP  
Approved: NCP

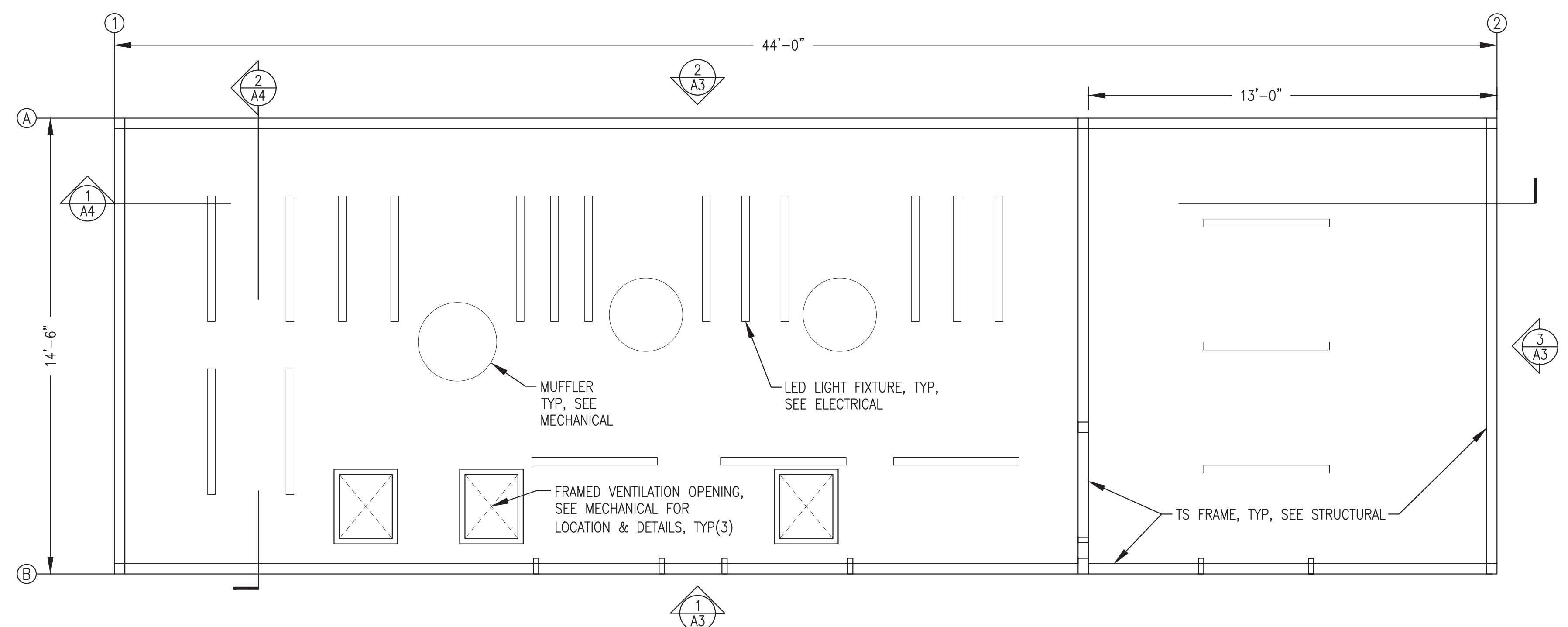
Sheet No. **C1.5**

ALL WORK ON THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT





**1 FLOOR PLAN**  
A1  
3/8"=1'-0"



**2 REFLECTED CEILING PLAN**  
A1  
3/8"=1'-0"

CODE ANALYSIS – 2012 EDITION INTERNATIONAL BUILDING CODE	
OCCUPANCY CLASSIFICATION	REF: IBC-2012, SEC. 306.2
GROUP F-1: FACTORY INDUSTRIAL MODERATE HAZARD – ELECTRIC GENERATION PLANT	
TYPE OF CONSTRUCTION	REF: IBC-2012, TABLE 601
TYPE V-B (NON-RATED)	REF: IBC-2012, SEC. 602.5
BUILDING HEIGHTS AND AREAS	REF: IBC-2012, TABLE 503
MAX ALLOWED = 40'-0" 1 STORY 8,500 S.F.	ACTUAL = 16'-0" 1 STORY 720 S.F.
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	REF: IBC-2012, TABLE 601
STRUCTURAL FRAME: 0 HR BEARING WALLS: 0 HR INTERIOR PARTITIONS: 0 HR FLOOR: 0 HR ROOF: 0 HR	
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS	REF: IBC-2012, TABLE 602
EXTERIOR WALLS 10' < X < 30' 0 HR	
FIRE PROTECTION SYSTEM	REF: IBC-2012, SEC. 903.2.4
FIRE PROTECTION NOT REQUIRED. WATER MIST FIRE SUPPRESSION SYSTEM PROVIDED (SEE MECHANICAL).	
OCCUPANT LOAD	REF: IBC-2012, TABLE 1004.1.2
MECHANICAL/STORAGE = 300 S.F./PERSON 610 S.F./300 S.F. PER OCCUPANT = 2 OCCUPANTS	
MEANS OF EGRESS – TRAVEL DISTANCE	REF: IBC-2012, TABLE 1016.2
MAX ALLOWED = 200'	ACTUAL = 40'
COMBUSTIBLE LIQUIDS STORAGE	REF: IBC-2012, TABLE 307.1(1)(i)
MAX ALLOWED = 660 GAL CLASS II LIQUIDS ACTUAL = 200 GAL CLASS II (DIESEL FUEL DAY TANK)	
MAX ALLOWED = 13200 GAL CLASS III LIQUIDS ACTUAL = 110 GAL CLASS III (GLYCOL & LUBE OIL)	
STATIONARY STORAGE BATTERY SYSTEMS	REF: IBC-2012, SEC. 608.1
MAX EXEMPT = 50 GAL (FLOODED LEAD ACID) ACTUAL = 6 GAL (6 BATTERIES AT 1 GAL MAX EACH)	

- ARCHITECTURAL GENERAL NOTES:**
- SEE CIVIL SITE PLAN FOR LOCATION AND LAYOUT. PROVIDE SEPARATION TO PROPERTY BOUNDARIES IN ACCORDANCE WITH CODE ANALYSIS.
  - PROVIDE A COMPLETE AND OPERATIONAL FACILITY. ALL WORK TO BE IN ACCORDANCE WITH CURRENT APPROVED EDITIONS OF THE IBC, IMC, IFC, AND NEC INCLUDING STATE OF ALASKA AMENDMENTS.
  - SEE SHEET A2 FOR DOOR AND WINDOW DETAILS AND SCHEDULE. SEE SHEETS A3 AND A4 FOR DESCRIPTION OF FIELD INSTALLED ROOF SYSTEM.
  - INSULATE ALL WALLS, FLOORS, AND CEILINGS WITH HIGH TEMPERATURE MINERAL FIBER ACOUSTICAL FIRE BATT INSULATION, MIN R VALUE 4 PER INCH, MIN 2000F MELTING TEMP. ROXUL AFB OR EQUAL. FILL ALL PANEL VOIDS OR PROVIDE THICKNESS AS INDICATED ON DRAWINGS. MECHANICALLY FASTEN FLOOR INSULATION TIGHT TO FLOOR.
  - UPON COMPLETION OF FABRICATION ROUND ALL CORNERS AND GRIND EDGES SMOOTH AND PAINT ALL INTERIOR AND EXTERIOR EXPOSED STEEL. PERFORM ALL PAINTING IN A WARM DRY ENVIRONMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS INCLUDING DRYING TIME TO RE-COAT.
  - SANDBLAST EXTERIOR SURFACE TO SSPC-SP-10. PRIME WITH ONE COAT OF REINFORCED INORGANIC ZINC PRIMER, DEVOE CATHA-COAT 302 OR APPROVED EQUAL, COLOR GREEN, TO 3 MILS DRY FILM THICKNESS. COVER WITH TWO COATS OF EPOXY, DEVOE BAR-RUST 236 OR APPROVED EQUAL, TO 12 MILS DRY FILM THICKNESS. FIRST COAT COLOR GRAY, SECOND COAT COLOR WHITE.
  - FINISH EXTERIOR WALLS AND SKIDS (ALL EXPOSED VERTICAL EXTERIOR SURFACES) WITH ONE COAT OF ALIPHATIC URETHANE ENAMEL, DEVOE DEVTHANE 389 OR APPROVED EQUAL, COLOR WHITE, TO 3 MILS DRY FILM THICKNESS.
  - SANDBLAST INTERIOR SURFACE TO SSPC-SP-6. PRIME AND FINISH WITH TWO COATS OF EPOXY, PPG AMERLOC 2 VOC OR APPROVED EQUAL, TO 8 MILS TOTAL DRY FILM THICKNESS. CEILING COLOR WHITE. WALL AND FLOOR COLOR ANSI 61 GRAY. NOTE THAT FIRST COAT ON WALLS AND FLOOR MAY BE WHITE.

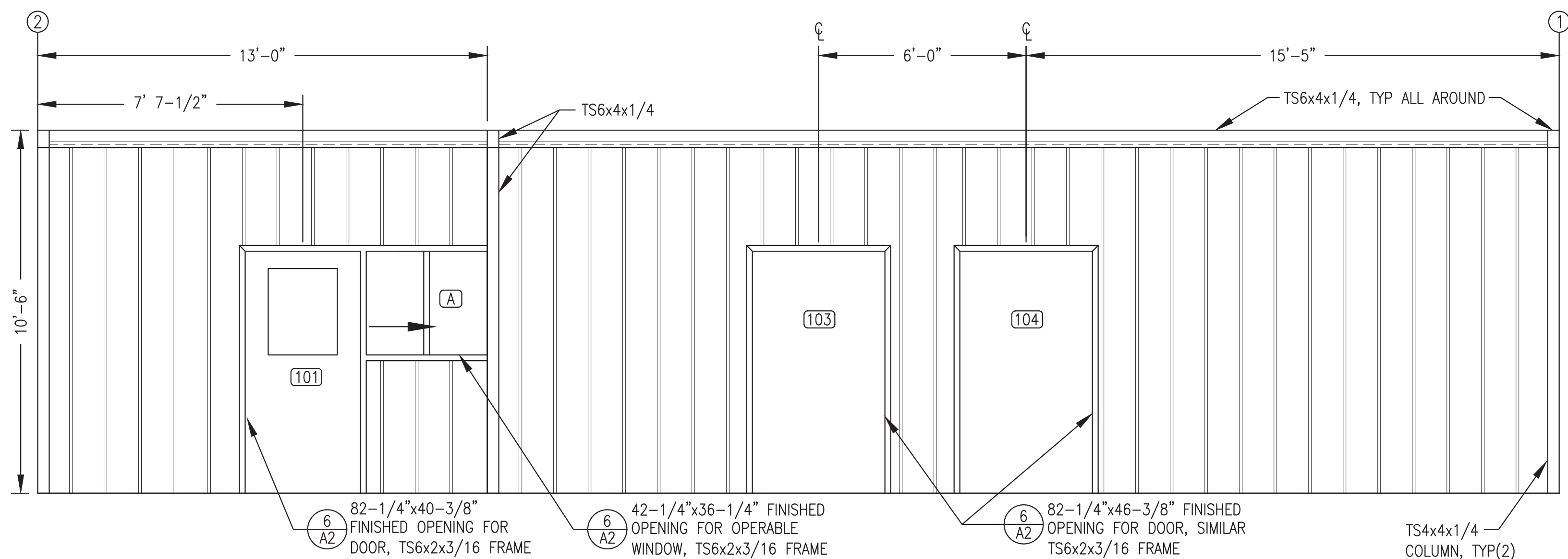
**ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE ASSEMBLY CONTRACT EXCEPT FOR FIELD INSTALLATION OF PREVIOUSLY FABRICATED STAIRS AND SUPPORTS AS INDICATED ON STRUCTURAL**

ISSUED FOR  
MODULE  
CONSTRUCTION  
MARCH 2022

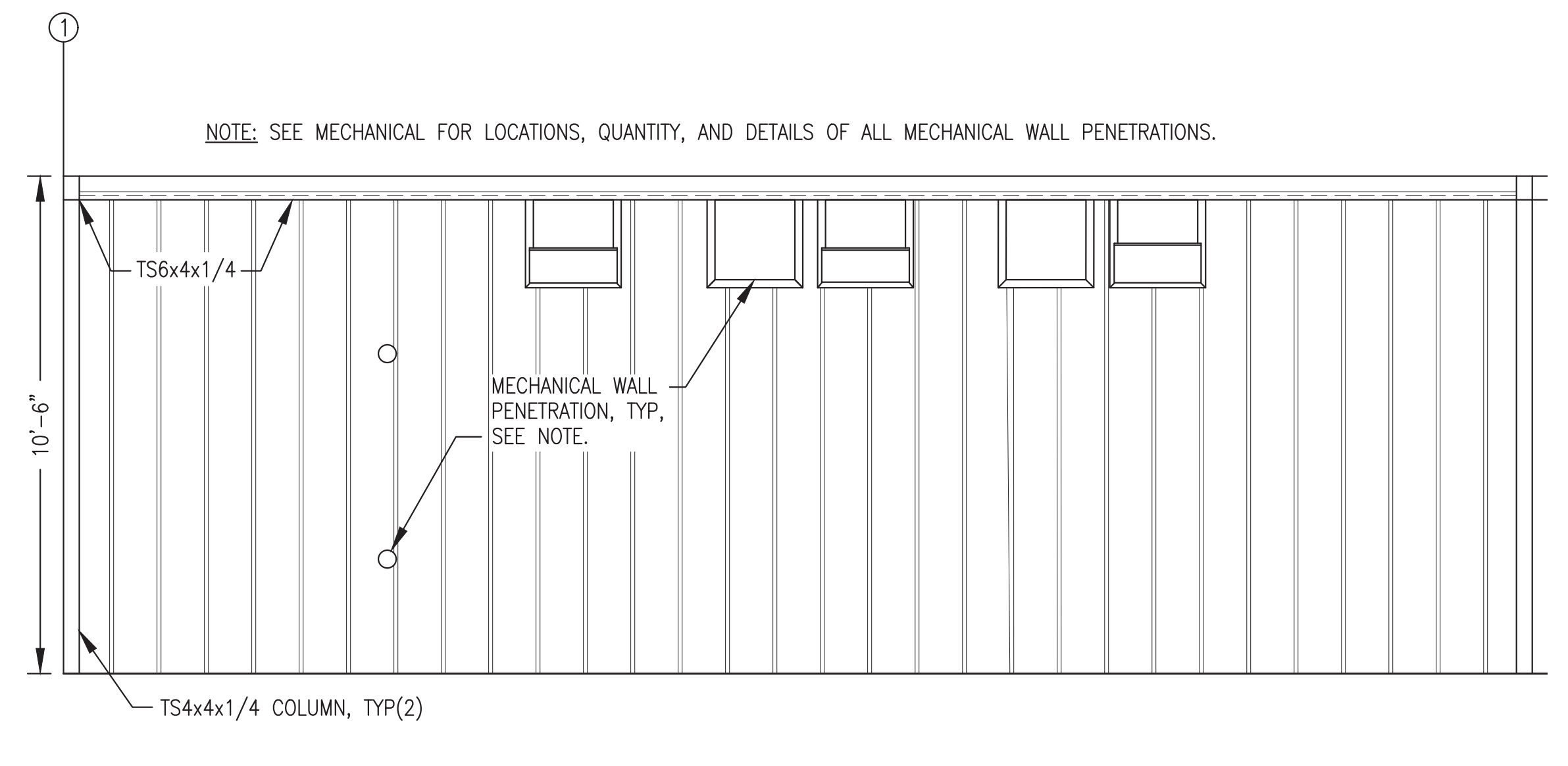


ALASKA ENERGY AUTHORITY	
PROJECT: RAMPART POWER SYSTEM UPGRADE	
TITLE: FLOOR PLAN, REFLECTED CEILING PLAN, CODE ANALYSIS, & GENERAL NOTES	
 Gray Stassel Engineering, Inc. P.O. 111405, Anchorage, AK 99511 (907)349-0100	DRAWN BY: JTD DESIGNED BY: DGT/BCG FILE NAME: RAM PP A1-A4 PROJECT NUMBER:
SCALE: AS NOTED	DATE: 3/15/22
SHEET: A1	

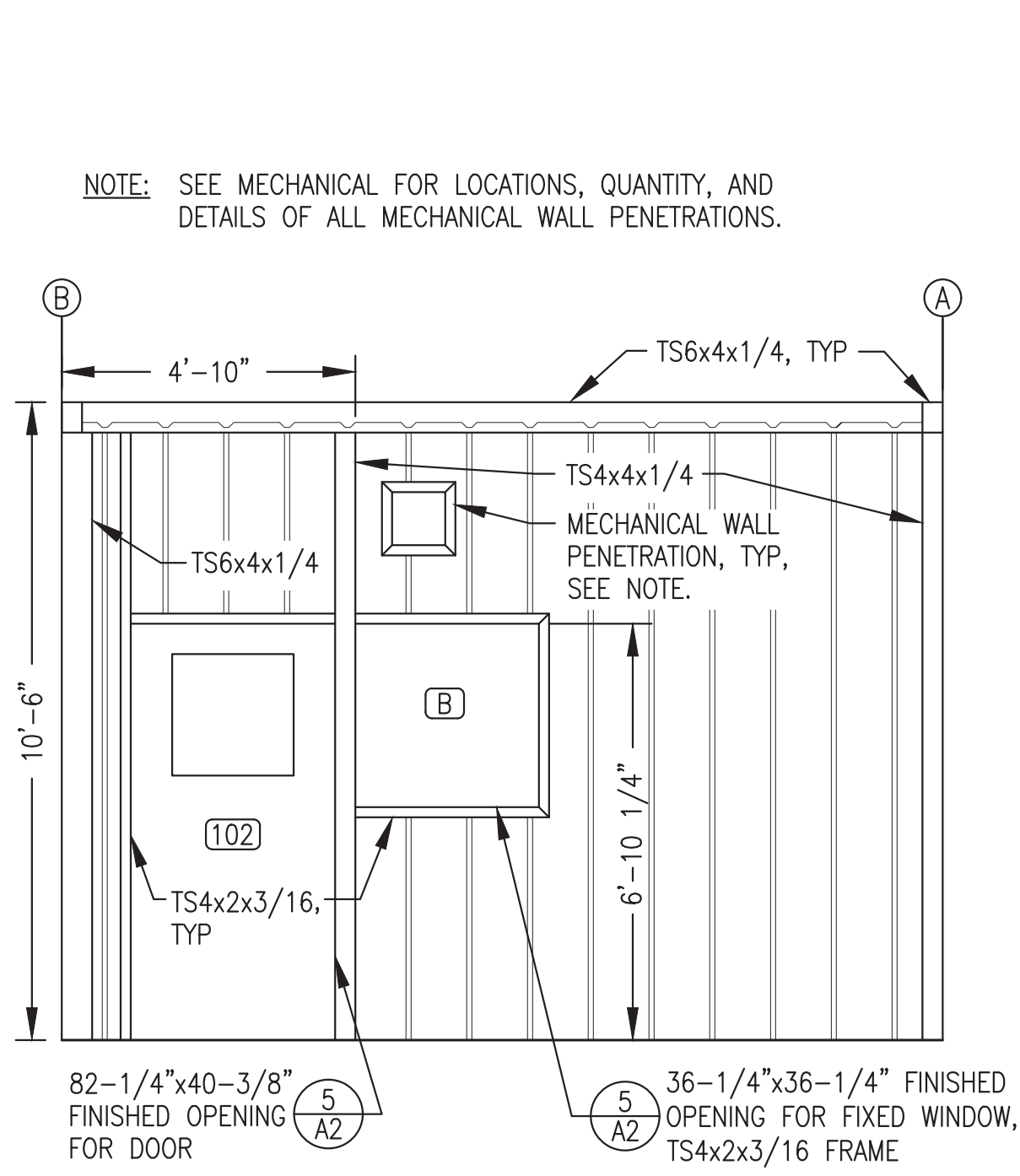




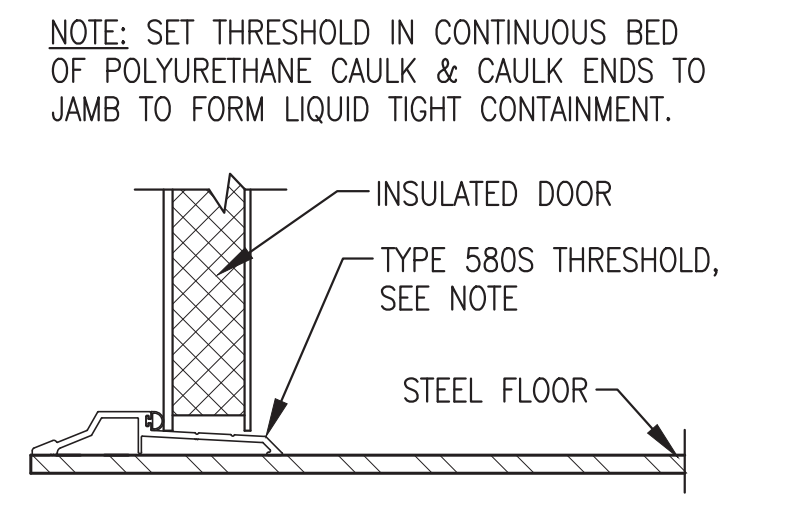
1 FRONT WALL INTERIOR ELEVATION  
A2 3/8"=1'-0"



2 PARTIAL GENERATOR ROOM BACK WALL INTERIOR ELEVATION  
A2 3/8"=1'-0"



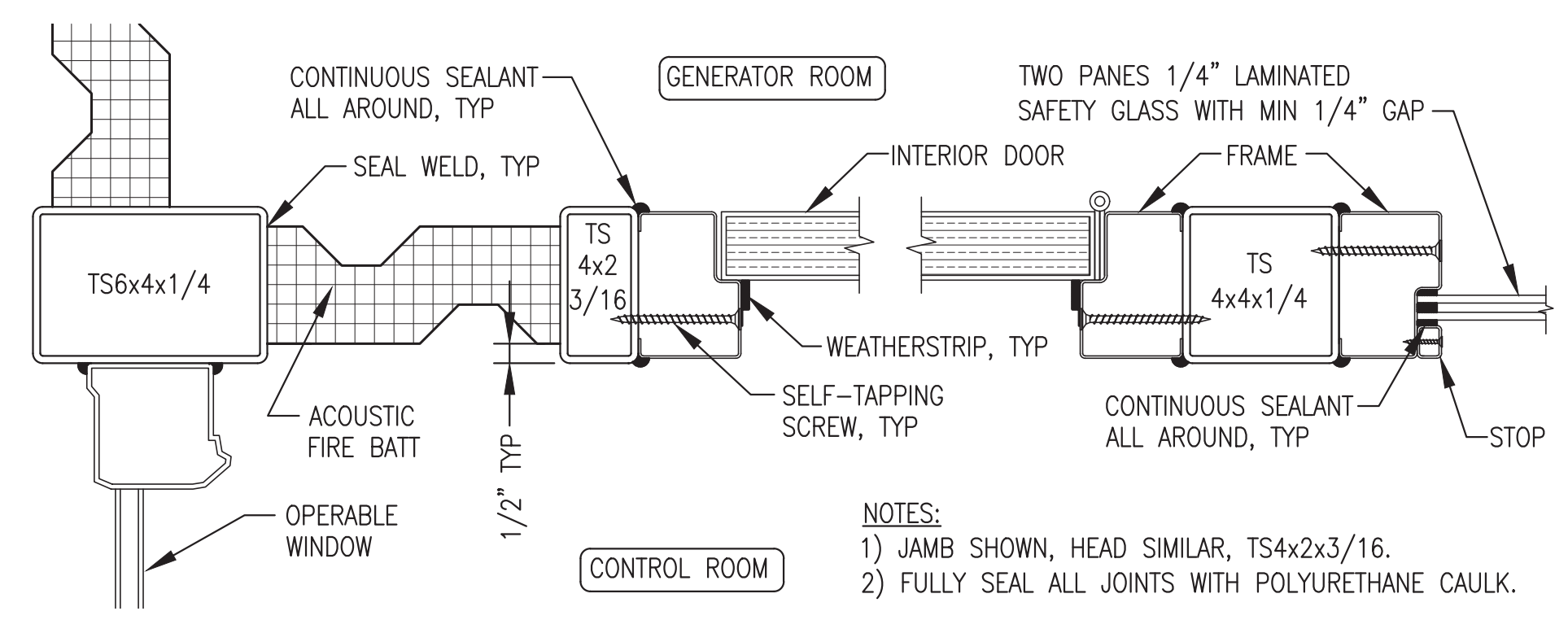
3 CONTROL ROOM WALL INTERIOR ELEVATION  
A2 3/8"=1'-0"



4 TYPICAL DOOR THRESHOLD  
A2 NO SCALE

**FRAMED OPENING NOTES:**

- FABRICATE FRAMED OPENINGS FOR DOORS, WINDOWS, ETC. WITH MITERED CORNERS AND FULL PENETRATION GROOVE WELDS. GRIND OUT INSIDE OF MITERED CORNERS TO PROVIDE FULL CLEAR OPENING.
- FABRICATE TO FINISHED INSIDE (CLEAR) DIMENSIONS INDICATED AND LOCATE TO INSIDE EDGE OR CENTERLINE AS INDICATED.



5 INTERIOR DOOR AND WINDOW JAMB/HEAD  
A2 3"=1'-0"

DOOR CONSTRUCTION							FRAME CONSTRUCTION						
DOOR NO.	WIDTH	HEIGHT	THICK NESS	MATERIAL	CORE	REMARKS	WALL THICK.	MATERIAL	TYPE	PROFILE	PREP.	FIRE RATING	HDWR. GROUP
101	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	POLYURETHANE	24"x24" RE-LIGHT {4}	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	DIMPLE & PUNCH	NONE	HW-1
102	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	POLYURETHANE	24"x24" RE-LIGHT {4}	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	DIMPLE & PUNCH	NONE	HW-2
103	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	POLYURETHANE		N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	DIMPLE & PUNCH	NONE	HW-3
104	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	POLYURETHANE		N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	DIMPLE & PUNCH	NONE	HW-3

**DOOR HARDWARE:**

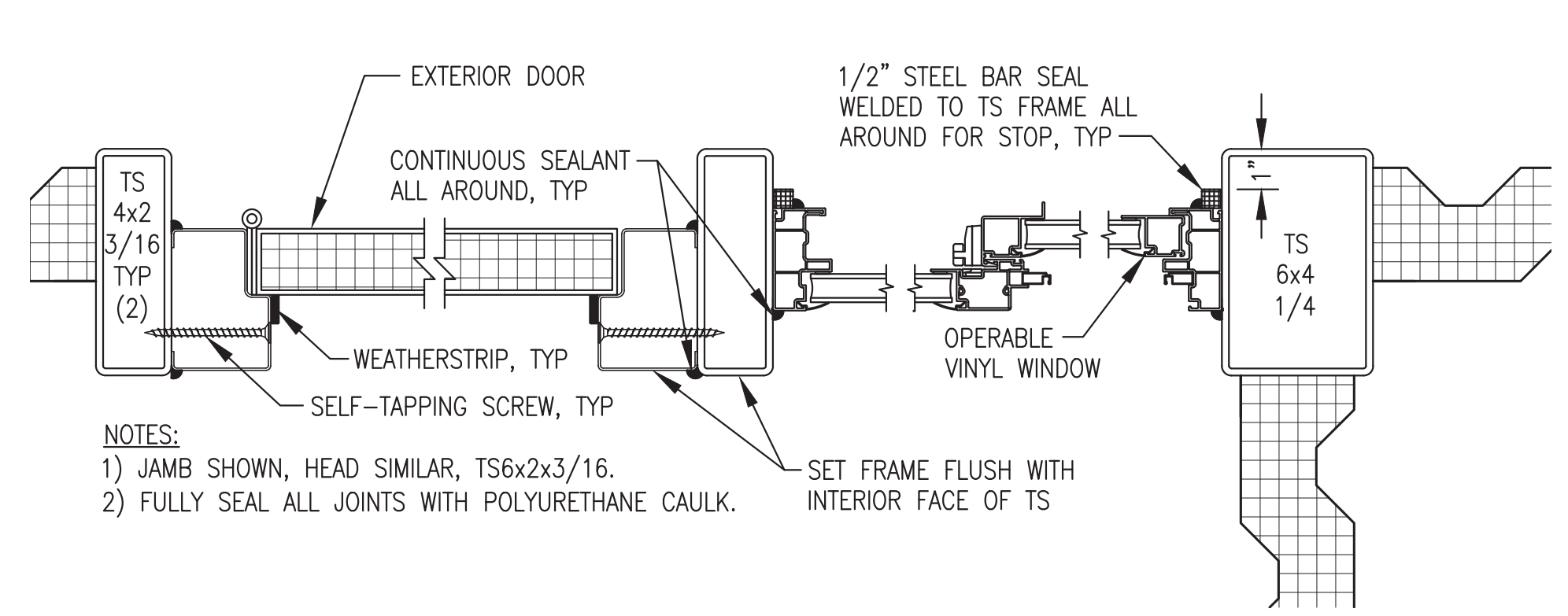
HW	EA	DESCRIPTION	MANUFACTURER	MODEL	SIZE
HW-1	3	HINGES	HAGER	BB1191	4.5 x 4.5NRP x 630
HW-1	1	EXIT DEVICE	PRECISION	2108	x 4908AX3 x 630
HW-1	1	DOOR CLOSER	BEST	BROWN CONSTRUCTION CORE	
HW-1	1	DOOR CLOSER	LCN	4040	x SCUSH x 689
HW-1	1	W/SPRING STOP			
HW-1	1	KICK PLATE	ROCKWOOD	K1050	10 x 34 x 630
HW-1	1	WEATHER STRIP	PEMKO	2891AS	x 36 (HEAD)
HW-1	2	WEATHER STRIP	PEMKO	290AS	x 80 (SIDE JAMBS)
HW-1	1	THRESHOLD	HAGER	580S	x 36

**DOOR FRAME PROFILE:**

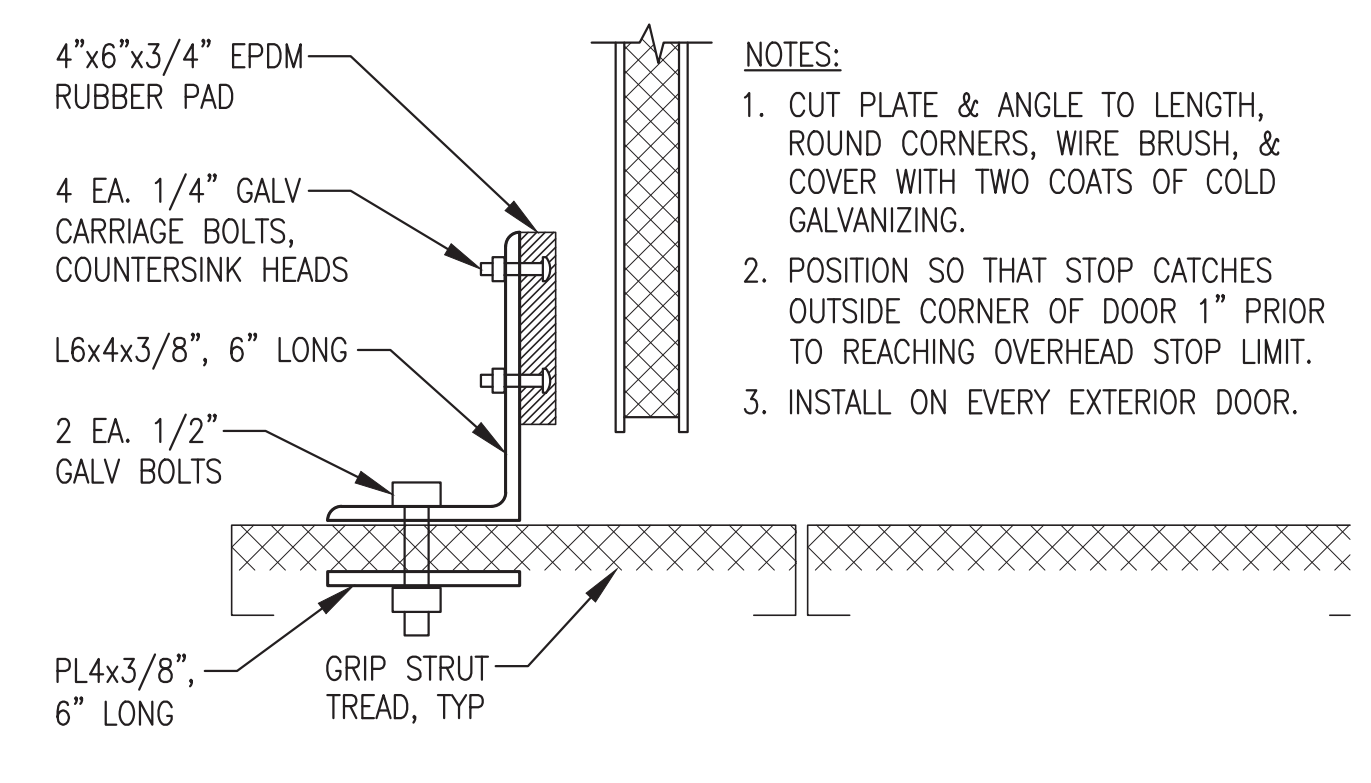
**WINDOW TYPES:**

**NOTES:**

- DOORS AND HOLLOW METAL FRAMES GALVANIZED AND FACTORY PRIMED. ALL FRAMES WELDED CONSTRUCTION, DIMPLED AND PUNCHED.
- DOORS TO HAVE SOLID POLYURETHANE INSULATION CORE WITH TOPS INVERTED AND CAULKED WATER TIGHT.
- FINISH ALL DOORS AND HOLLOW METAL FRAMES WITH TWO COATS OF PAINT IDENTICAL TO INTERIOR WALLS AND FLOORS AS SPECIFIED ON SHEET A1.
- INSTALL INSULATED RE-LIGHT WITH TWO PANES OF 1/4" LAMINATED SAFETY GLASS WITH 1/2" AIR GAP IN EACH DOOR PANEL, 24"x24" OR 24"x18" AS INDICATED.



6 TYPICAL EXTERIOR DOOR AND WINDOW JAMB/HEAD  
A2 3"=1'-0"



7 TYPICAL EXTERIOR DOOR BOTTOM STOP  
A2 NO SCALE

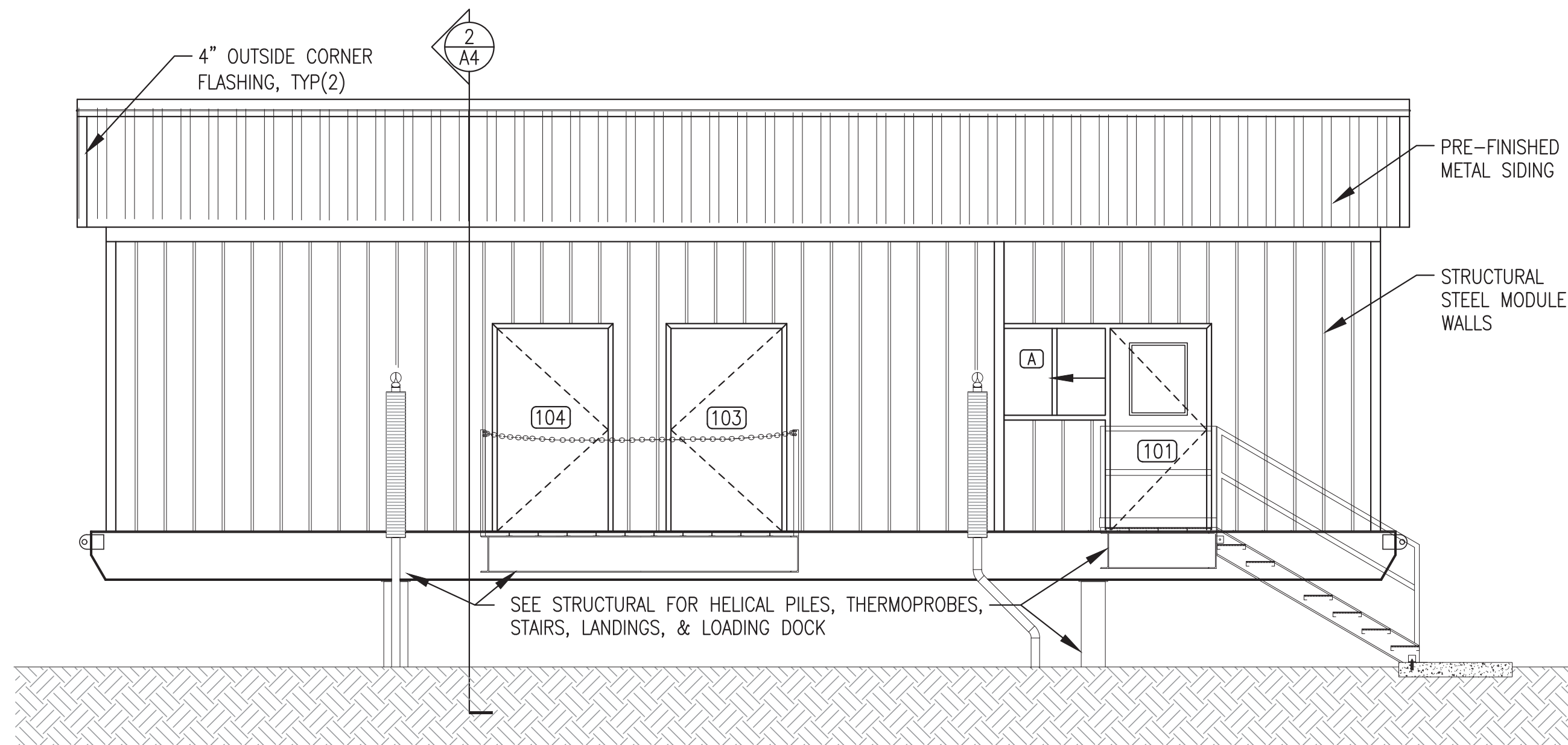
ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE ASSEMBLY CONTRACT EXCEPT FURNISH AND INSTALL DOOR STOPS AS PART OF THE ON SITE CONTRACT

ISSUED FOR MODULE CONSTRUCTION MARCH 2022

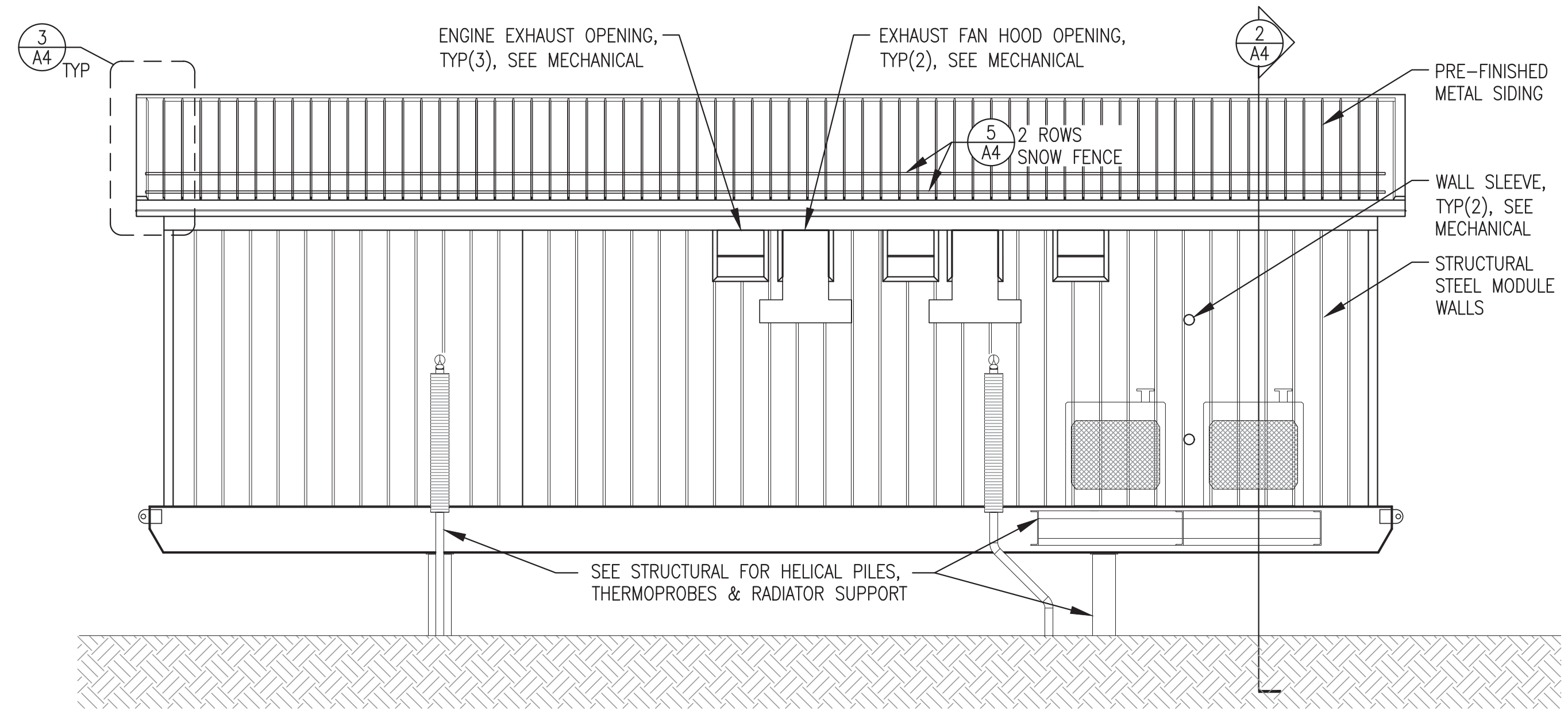


PROJECT: RAMPART POWER SYSTEM UPGRADE	
TITLE: INTERIOR ELEVATIONS & DOOR/WINDOW DETAILS & SCHEDULE	
DRAWN BY: JTD	SCALE: AS NOTED
DESIGNED BY: DGT/BCG	DATE: 3/15/22
FILE NAME: RAM PP A1-A4	SHEET: A2
PROJECT NUMBER:	
P.O. 111405, Anchorage, AK 99511 (907)349-0100	

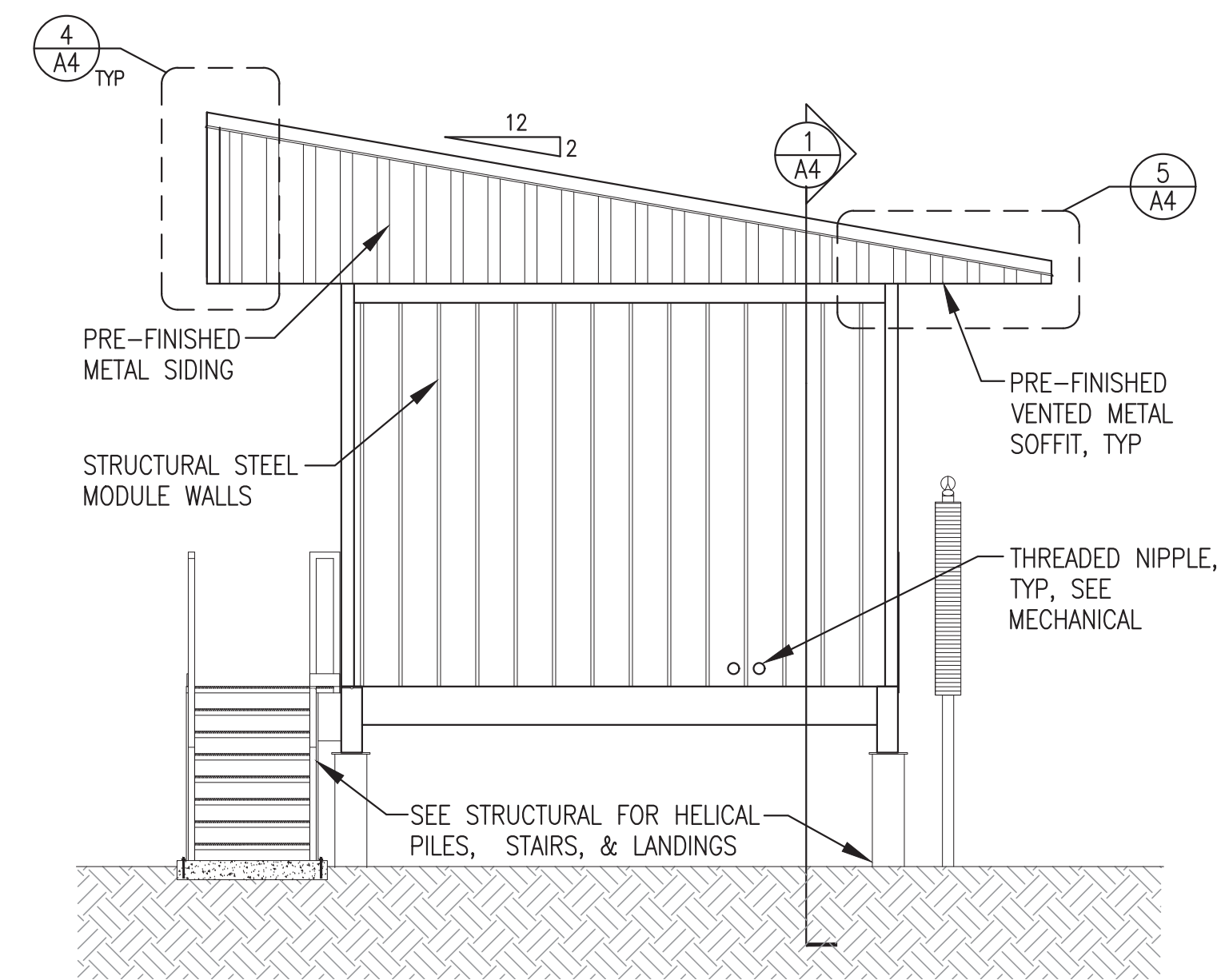




1 FRONT EXTERIOR ELEVATION  
1/4"=1'-0"



2 BACK EXTERIOR ELEVATION  
1/4"=1'-0"

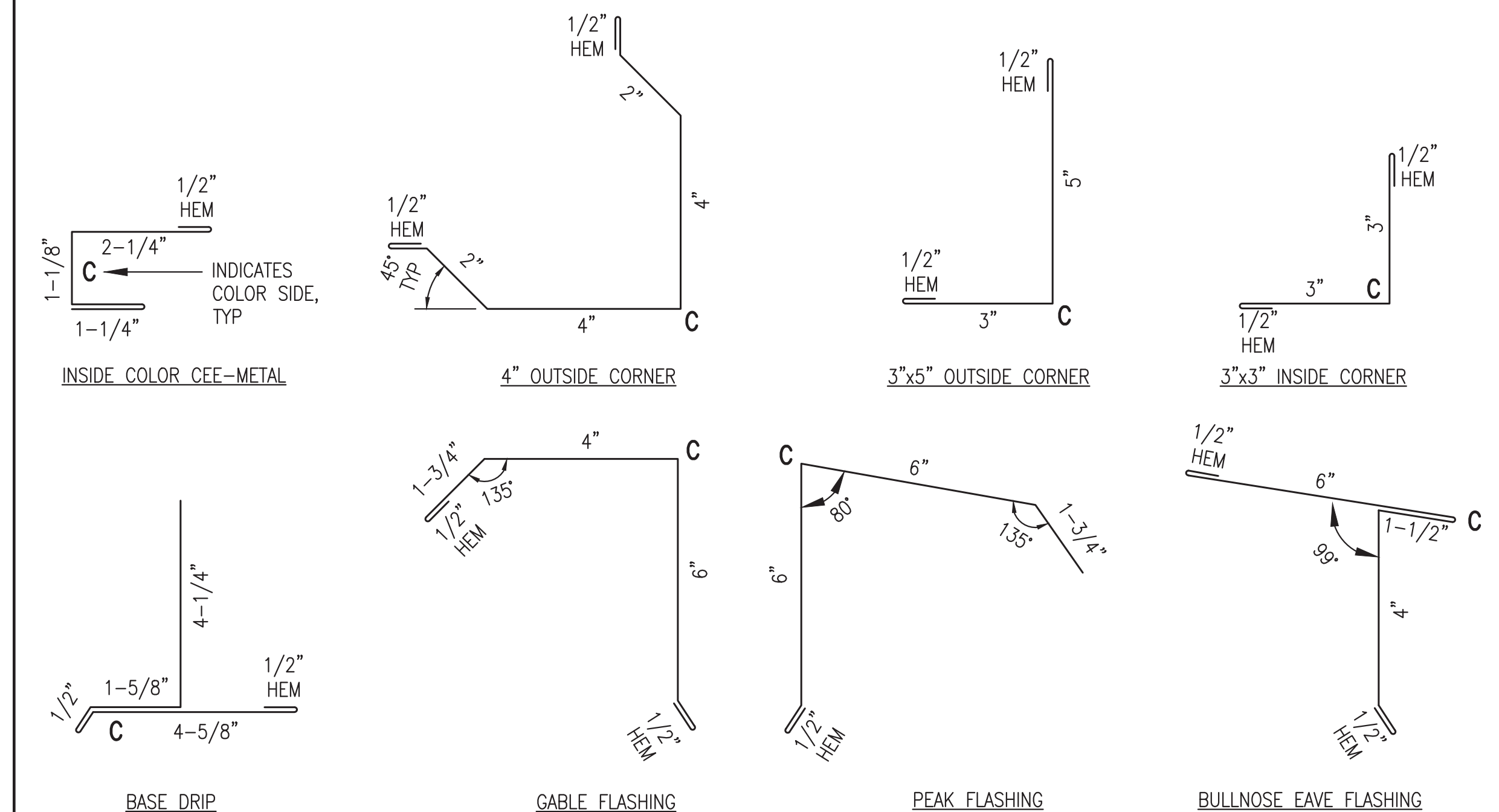


3 END EXTERIOR ELEVATION  
1/4"=1'-0"

**ROOFING SYSTEM NOTES:**

- 1) FIELD INSTALL TRUSSES TO MODULE STRUCTURE. FIELD INSTALL PLYWOOD SHEATHING, ICE AND WATER SHIELD, AND METAL ROOFING/SIDING AS INDICATED. SEAL AND FLASH ALL SEAMS TO FORM A CONTINUOUS WEATHERPROOF SEAL.
- 2) ALL ROOFING, SIDING, SOFFIT, TRIM, AND FLASHING SHALL BE MIN 24 GAUGE GALVANIZED STEEL WITH KYNAR FINISH, COLOR COLOR COLONIAL RED. ALL FASTENERS SHALL BE CORROSION RESISTANT COATED SCREWS AND RIVETS.
- 3) ROOFING SHALL BE MECHANICAL STANDING SEAM TYPE, 24 GAUGE, 16" NET COVERAGE, 2" HIGH RIBS AT 16" O.C. WITH TWO PENCIL RIBS BETWEEN. AEP SPAN SPAN LOK HP OR EQUAL. FURNISH CLIPS AND FASTENERS AS REQUIRED TO MEET LOAD CONDITIONS INDICATED ON SHEET S1.
- 4) SIDING SHALL BE LOW PROFILE, 24 GAUGE, 36" NET COVERAGE, 1-1/4" HIGH MAJOR RIBS AND 1/4" HIGH MINOR RIBS AT 12" O.C. AEP SPAN SUPER-SPAN OR EQUAL. FURNISH FASTENERS AS REQUIRED TO MEET LOAD CONDITIONS INDICATED ON SHEET S1.1.
- 5) VENTED SOFFIT PANELS SHALL BE 24 GAUGE GALVANIZED STEEL, 12" NET COVERAGE, KYNAR FINISH, 1" STANDOFF FROM SUBSTRATE, CONCEALED FASTENERS, WITH TWO PENCIL RIBS PROVIDING MINIMUM 7.8% NET FREE AREA. AEP SPAN FLUSH PANEL OR EQUAL.
- 6) SEE SHEET A4 FOR ROOF MOUNTED SNOW FENCE.

**ROOFING SYSTEM TRIM & FLASHING:**



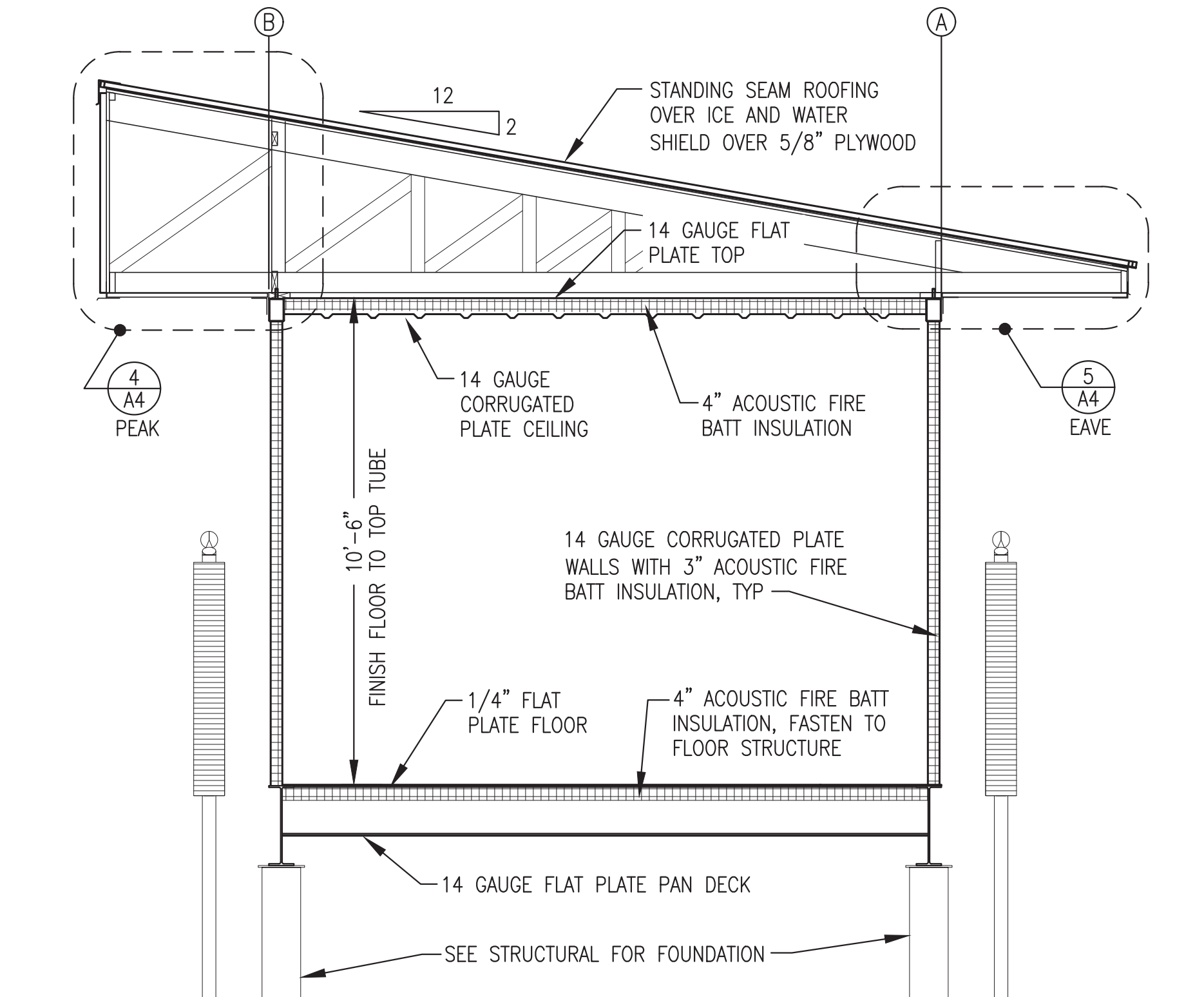
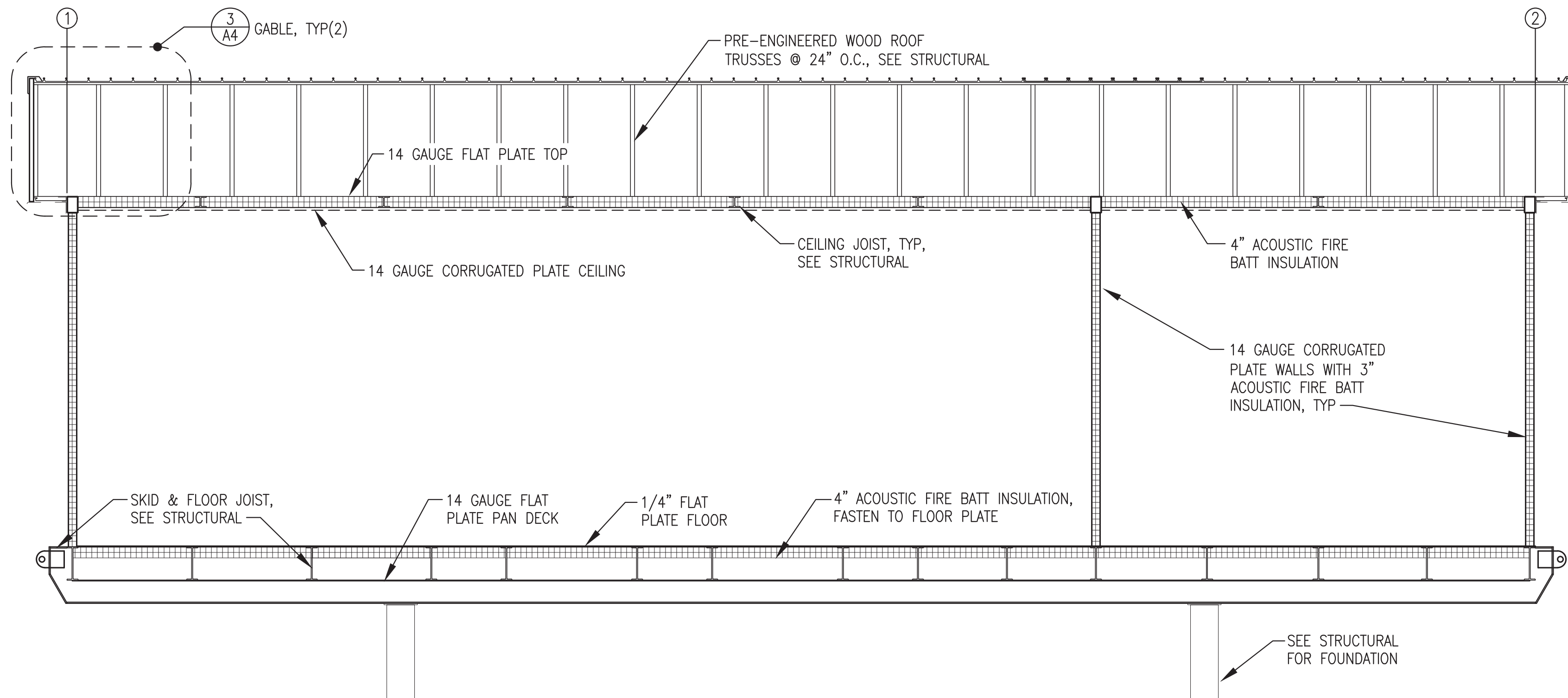
FIELD INSTALLED ROOF SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT

REVISION #1  
ISSUED JULY  
2022



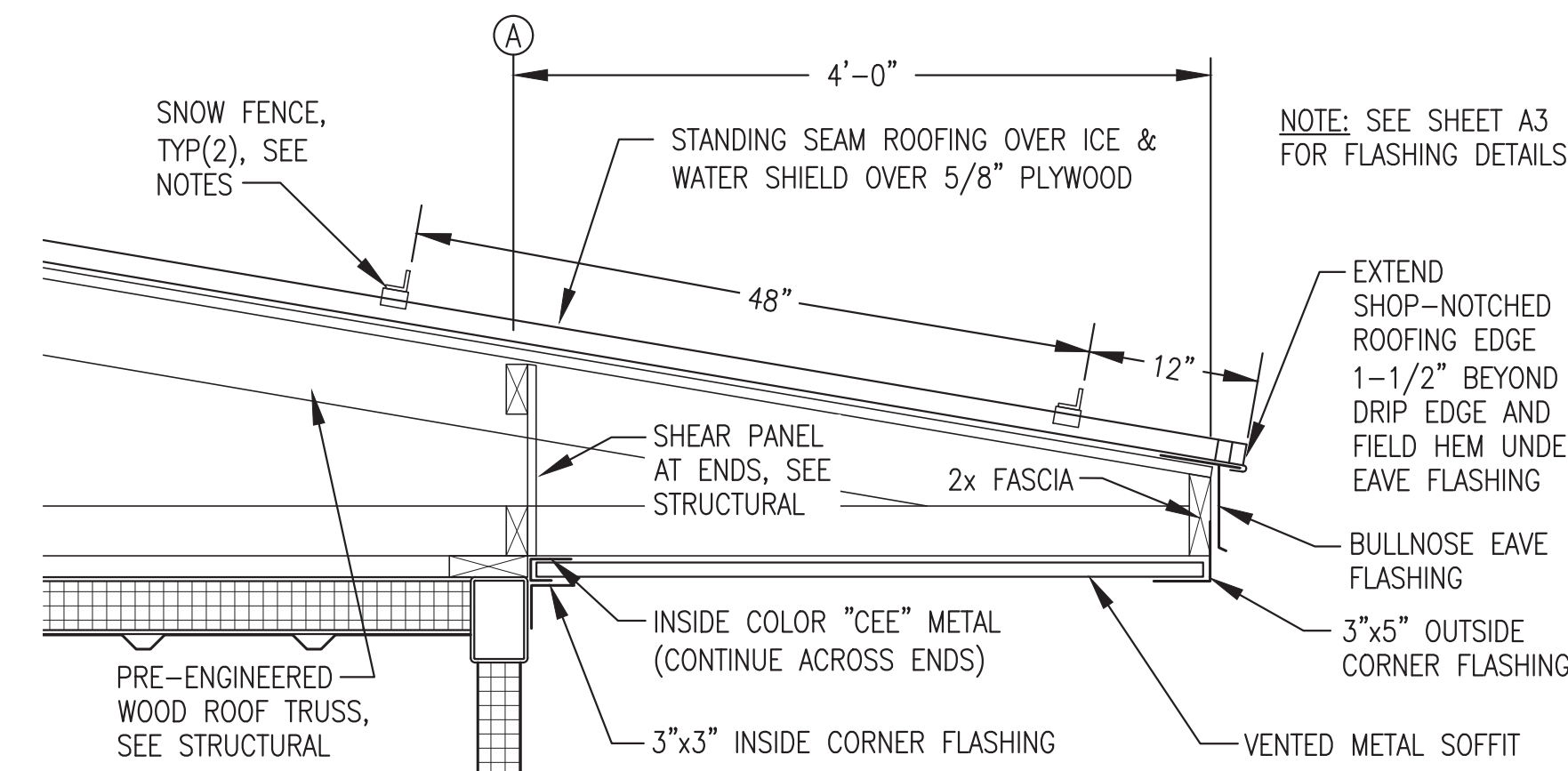
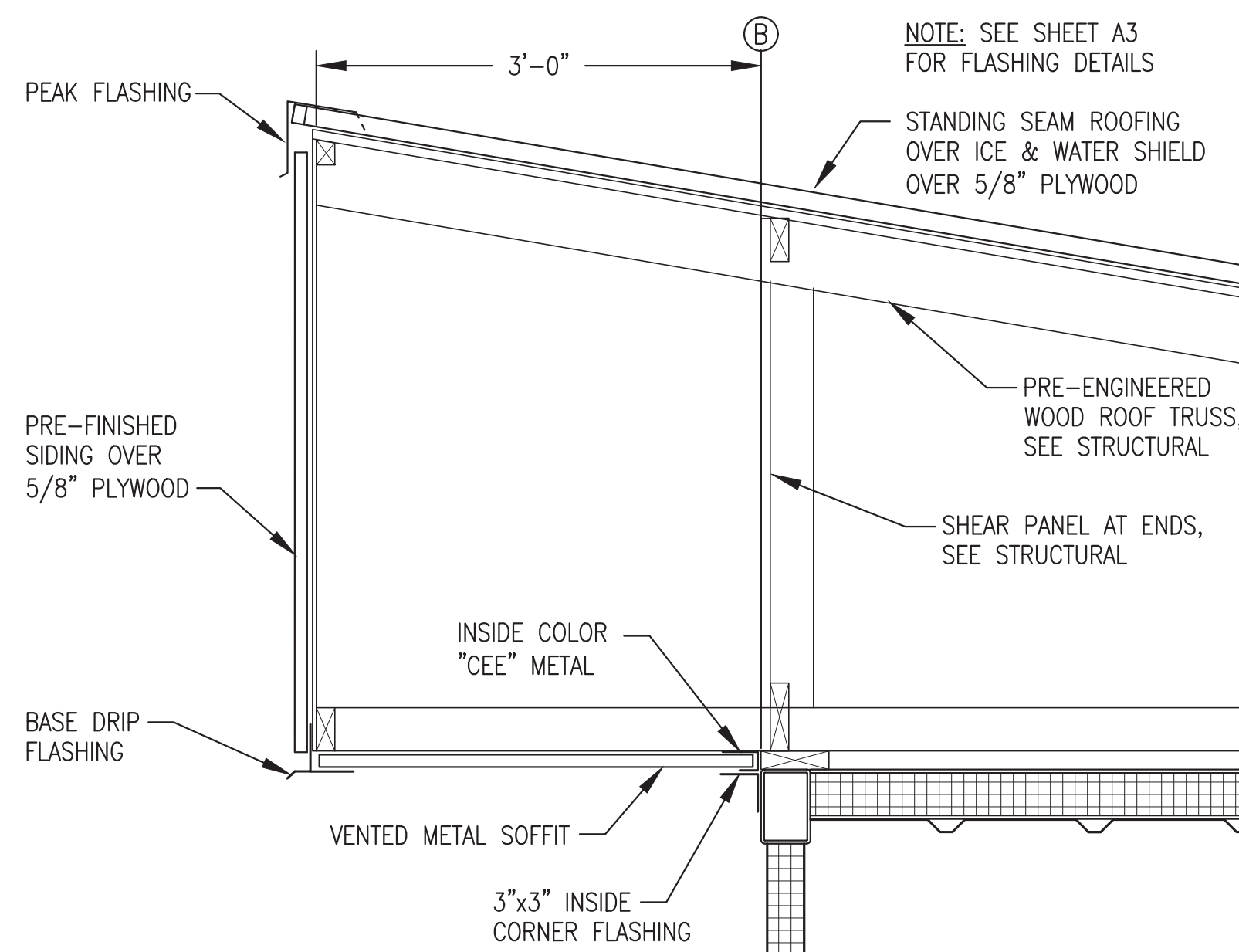
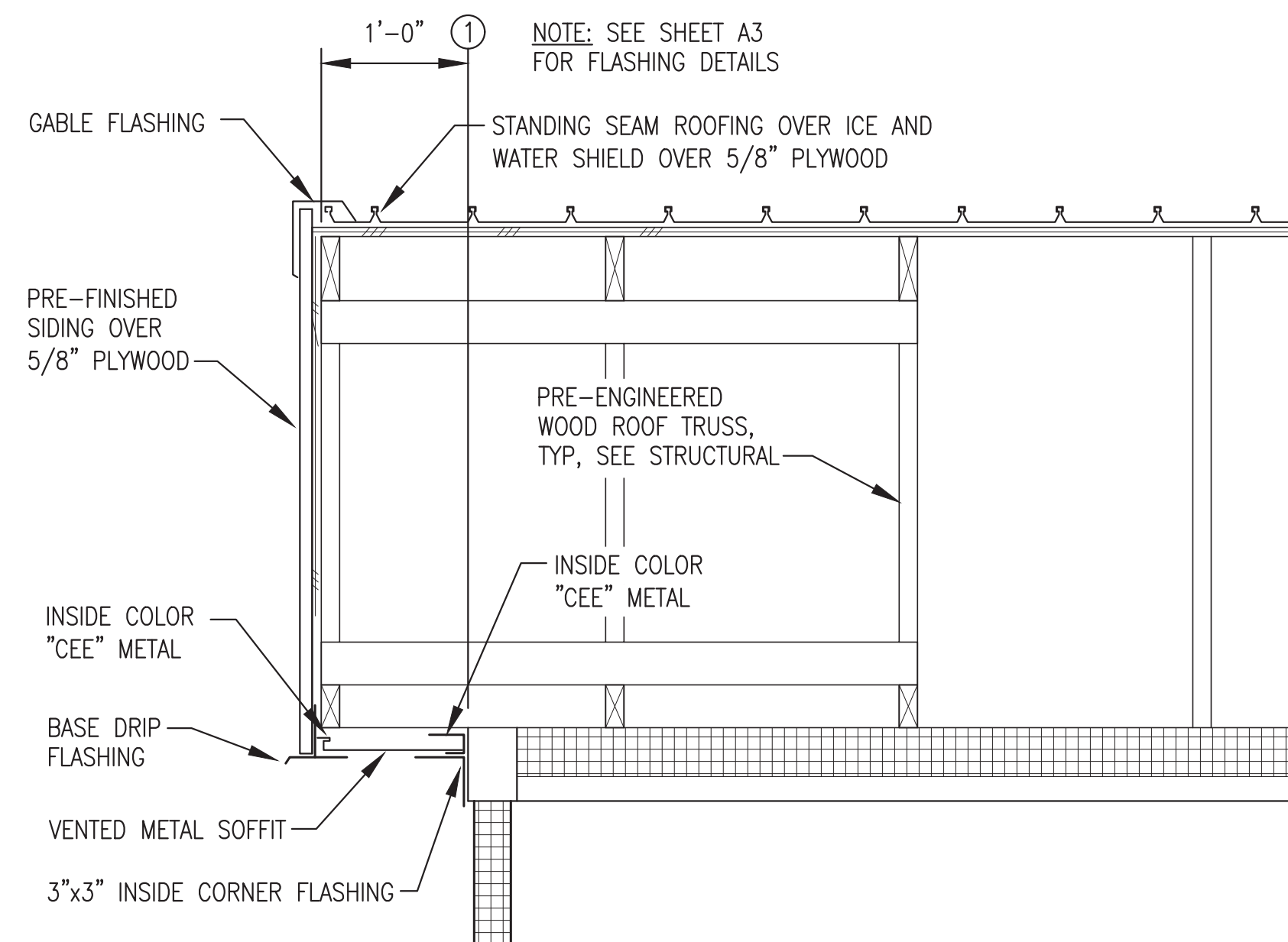
1	REVISED FOR ONSITE FOUNDATION DESIGN	7/15/22	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: EXTERIOR ELEVATIONS & ROOFING NOTES & TRIM DETAILS			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 3/15/22	
FILE NAME: RAM_PP_A1-A4		SHEET: A3	
PROJECT NUMBER:			





**1**  
**A4** BUILDING SECTION  
3/8"=1'-0"

**2**  
**A4** BUILDING SECTION  
3/8"=1'-0"



**SNOW FENCE NOTES:**

- 1) PROVIDE 2 ROWS OF SNOW RETENTION FENCE AS INDICATED.
- 2) SNOW FENCE SHALL BE L.M. CURBS COLOR GUARD OR APPROVED EQUAL. FURNISH COMPLETE SYSTEM INCLUDING UNPUNCHED COLOR GUARD, SPLICES, VERSA CLIPS, SNO CLIPS III, S5-U CLAMPS, AND ALL REQUIRED FASTENERS.

**3**  
**A4** GABLE DETAIL  
1"=1'-0"

**4**  
**A4** PEAK DETAIL  
1"=1'-0"

**5**  
**A4** EAVE DETAIL  
1"=1'-0"

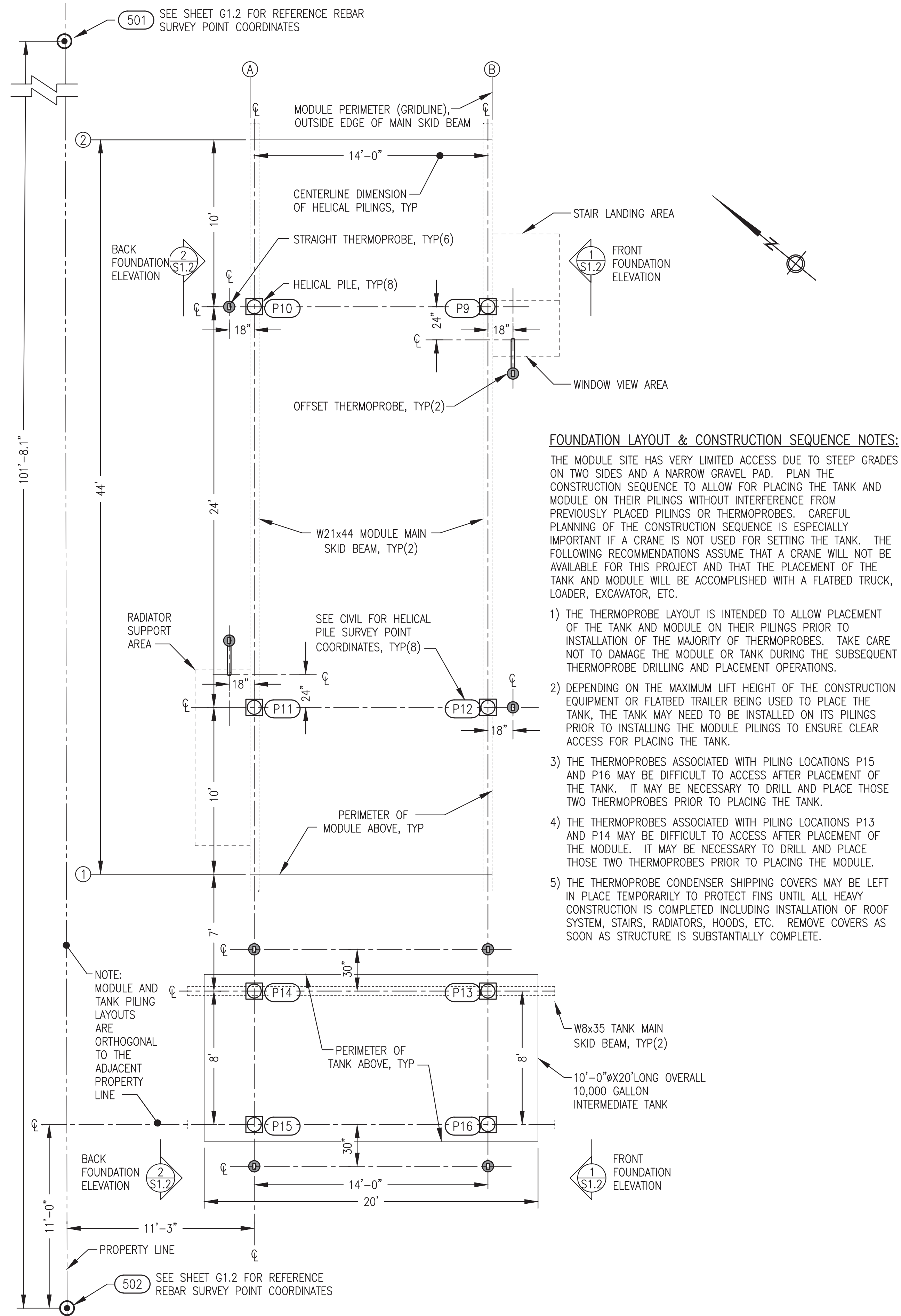
FIELD INSTALLED ROOF SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT

REVISION #1  
ISSUED JULY  
2022



1	REVISED FOR ONSITE FOUNDATION DESIGN	7/15/22	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: BUILDING SECTIONS & DETAILS			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 3/15/22	
FILE NAME: RAM PP A1-A4		SHEET: A4	
PROJECT NUMBER:			
P.O. 111405, Anchorage, AK 99511 (907)349-0100			





**FOUNDATION LAYOUT & CONSTRUCTION SEQUENCE NOTES:**

THE MODULE SITE HAS VERY LIMITED ACCESS DUE TO STEEP GRADES ON TWO SIDES AND A NARROW GRAVEL PAD. PLAN THE CONSTRUCTION SEQUENCE TO ALLOW FOR PLACING THE TANK AND MODULE ON THEIR PILING WITHOUT INTERFERENCE FROM PREVIOUSLY PLACED PILING OR THERMOPROBES. CAREFUL PLANNING OF THE CONSTRUCTION SEQUENCE IS ESPECIALLY IMPORTANT IF A CRANE IS NOT USED FOR SETTING THE TANK. THE FOLLOWING RECOMMENDATIONS ASSUME THAT A CRANE WILL NOT BE AVAILABLE FOR THIS PROJECT AND THAT THE PLACEMENT OF THE TANK AND MODULE WILL BE ACCOMPLISHED WITH A FLATBED TRUCK, LOADER, EXCAVATOR, ETC.

- 1) THE THERMOPROBE LAYOUT IS INTENDED TO ALLOW PLACEMENT OF THE TANK AND MODULE ON THEIR PILING PRIOR TO INSTALLATION OF THE MAJORITY OF THERMOPROBES. TAKE CARE NOT TO DAMAGE THE MODULE OR TANK DURING THE SUBSEQUENT THERMOPROBE DRILLING AND PLACEMENT OPERATIONS.
- 2) DEPENDING ON THE MAXIMUM LIFT HEIGHT OF THE CONSTRUCTION EQUIPMENT OR FLATBED TRAILER BEING USED TO PLACE THE TANK, THE TANK MAY NEED TO BE INSTALLED ON ITS PILING PRIOR TO INSTALLING THE MODULE PILING TO ENSURE CLEAR ACCESS FOR PLACING THE TANK.
- 3) THE THERMOPROBES ASSOCIATED WITH PILING LOCATIONS P15 AND P16 MAY BE DIFFICULT TO ACCESS AFTER PLACEMENT OF THE TANK. IT MAY BE NECESSARY TO DRILL AND PLACE THOSE TWO THERMOPROBES PRIOR TO PLACING THE TANK.
- 4) THE THERMOPROBES ASSOCIATED WITH PILING LOCATIONS P13 AND P14 MAY BE DIFFICULT TO ACCESS AFTER PLACEMENT OF THE MODULE. IT MAY BE NECESSARY TO DRILL AND PLACE THOSE TWO THERMOPROBES PRIOR TO PLACING THE MODULE.
- 5) THE THERMOPROBE CONDENSER SHIPPING COVERS MAY BE LEFT IN PLACE TEMPORARILY TO PROTECT FINS UNTIL ALL HEAVY CONSTRUCTION IS COMPLETED INCLUDING INSTALLATION OF ROOF SYSTEM, STAIRS, RADIATORS, HOODS, ETC. REMOVE COVERS AS SOON AS STRUCTURE IS SUBSTANTIALLY COMPLETE.

**STRUCTURAL GENERAL NOTES:**

- 1.0 DESIGN LOADS:**
- A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE
  - B. FLOOR LIVE LOADS: (IBC TABLE 1607.1)  
LIGHT STORAGE/MANUFACTURING 125 PSF OR 2000 POUND POINT LOAD  
MAXIMUM GENERATOR UNIT WEIGHT 6,000 POUNDS
  - C. SNOW LOADS: (ASCE 7-10)  
GROUND SNOW LOAD,  $P_g =$  70 PSF  
COEFFICIENT OF EXPOSURE,  $C_e =$  1.0 PARTIALLY EXPOSED  
SNOW IMPORTANCE FACTOR,  $I_s =$  1.2 CATEGORY IV  
THERMAL COEFFICIENT,  $C_t =$  1.2 COLD, VENTILATED ROOF  
ROOF/FLAT SNOW LOAD,  $P_f =$  65 PSF
  - D. WIND LOADS:  
BASIC WIND SPEED = 120 MPH, 3 SECOND GUST  
RISK CATEGORY = CATEGORY IV  
EXPOSURE CLASSIFICATION = EXPOSURE C
  - E. SEISMIC LOADING:  
SEISMIC =  $S_s = 1.03$   $S_1 = 0.33$   
SEISMIC IMPORTANCE FACTOR = 1.50, CATEGORY IV
- SITE CLASS "D" (DEFAULT)  
BASIC SEISMIC FORCE RESISTANCE SYSTEM  
BUILDING = BEARING WALL WITH STEEL SHEAR PANELS  
FOUNDATION = STEEL HELICAL PILES  
SEISMIC RESPONSE COEFFICIENT - BUILDING  $R = 7.0$   
SEISMIC RESPONSE COEFFICIENT - PILING FRAMES  $R = 6.5$

- 4.0 WOOD:**
- A. 5/8" PLYWOOD SHALL HAVE A PANEL SPAN RATING OF 32/16 - MINIMUM NAILING FOR PANELS, UNLESS OTHERWISE NOTED, SHALL EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d'S @ 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2X4 FLAT BLOCKING. OSB PANELS WILL NOT BE ACCEPTED.
  - B. FRAMING MATERIAL: DOUGLAS FIR OR HEM FIR, NO. 2 OR BETTER MINIMUM FOR JOISTS, STUDS, PANEL JOINTS, WOOD PLATES, BLOCKING, AND HEADERS. MAXIMUM MOISTURE CONTENT SHALL BE 19%. FOR FRAMING SPECIFICALLY INDICATED AS TREATED PROVIDE LUMBER TREATED FOR GROUND CONTACT TO 0.4 RETENTION MINIMUM.
  - C. ALL METAL TO WOOD OR WOOD TO WOOD CONNECTIONS SHALL BE STANDARD OR AS DETAILED ON THE DRAWINGS. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.
  - D. ALL METAL FRAMING ANCHORS AND SPLICE PLATES SHALL BE FABRICATED FROM GALVANIZED STEEL AND SHALL SUPPORT THE LOADS INDICATED ON THE DRAWINGS. ANCHORS INDICATED ON THE DRAWINGS ARE "SIMPSON COMPANY" OR EQUAL.
  - E. MINIMUM NAILING SHALL EQUAL THAT INDICATED IN 2012 IBC TABLE 2304.9.1 UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. MINIMUM NAILING FOR EXTERIOR PLYWOOD PANELS SHALL EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d'S @ 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2x4 OR 2x6 BLOCKING. ERECT WOOD FRAMING MEMBERS TRUE TO LINES AND LEVELS. DO NOT DEVIATE FROM TRUE ALIGNMENT MORE THAN 1/4 INCH.
  - F. PREMANUFACTURED ROOF TRUSSES: ALL PRE-MANUFACTURED WOOD TRUSSES SHALL BE "GANG NAIL" OR EQUAL AND SHALL BE FABRICATED WITH GALVANIZED PLATES AND FASTENERS AS INDICATED ABOVE. TRUSSES SHALL BE DESIGNED FOR THE GRAVITY LOADS, WIND & SEISMIC LATERAL & UPLIFT LOADS, AND SUPPORT CONDITIONS AS INDICATED ON THE DRAWINGS. NO DURATION OF LOAD INCREASE IN STRESSES WILL BE ALLOWED FOR SNOW LOADING. UNBALANCED SNOW AND DRIFT LOADING IS REQUIRED. SUBMIT TRUSS DESIGNS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA. TRUSS DRAWINGS SHALL INDICATE ALL MATERIALS OF CONSTRUCTION.

**2.0 FOUNDATIONS:**

- A. SEE CIVIL FOR SITE PREPARATION AND FOR COORDINATES OF HELICAL PILES.
- B. PROVIDE HELICAL PILE FOUNDATION WITH THERMOPROBES IN ACCORDANCE WITH SPECIFICATIONS AND AS INDICATED ON SHEET S1.2.

**3.0 STRUCTURAL STEEL:**

- A. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- B. ALL STEEL PLATE, SHAPES, AND ROLLED SECTIONS SHALL BE ASTM A36. ALL STEEL TUBING SHALL BE ASTM A500, GRADE B.
- C. ALL METAL TO METAL CONNECTIONS SHALL BE EQUAL TO STANDARD CONNECTION, OR AS DETAILED USING A325 BOLTS (BEARING TYPE CONNECTIONS). TIGHTEN HIGH STRENGTH BOLTS WITH PROPERLY CALIBRATED WRENCHES, BY TURN-OF-THE-NUT METHOD, OR BY LOAD WASHERS. ALL CONNECTIONS UNLESS OTHERWISE DETAILED, SHALL HAVE THE MAXIMUM NUMBER OF 3/4" DIAMETER BOLTS USING STANDARD GAUGES AND CLEARANCES.
- D. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CODE OF THE AMERICAN WELDING SOCIETY. USE AWS 5.1 E70XX ELECTRODES. MINIMUM FILLET WELD SHALL BE 3/16" EXCEPT FOR SEAL WELDS TO GAUGE METAL AS INDICATED.
- E. ALL EXPOSED STEEL SURFACES SHALL BE PREPARED AND PAINTED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.

**MODULE PILE LOADS**

MARK	DEAD (K) NOTES 1&2	FLOOR LIVE (K)	SNOW (K)	TOTAL (K)	WIND (K) NOTE 3	SEISMIC (K) NOTE 3
P9						
P10	26.5	6.3	16.4	49.2	2.5 H	4.5 H
P11						
P12						

**TANK PILE LOADS**

NOTE: TANK DEAD LOAD INCLUDES TANK PLUS 95% FUEL CAPACITY.

P13						
P14	26.0	0	1.4	27.4	1.0 H	4.0 H
P15						
P16						

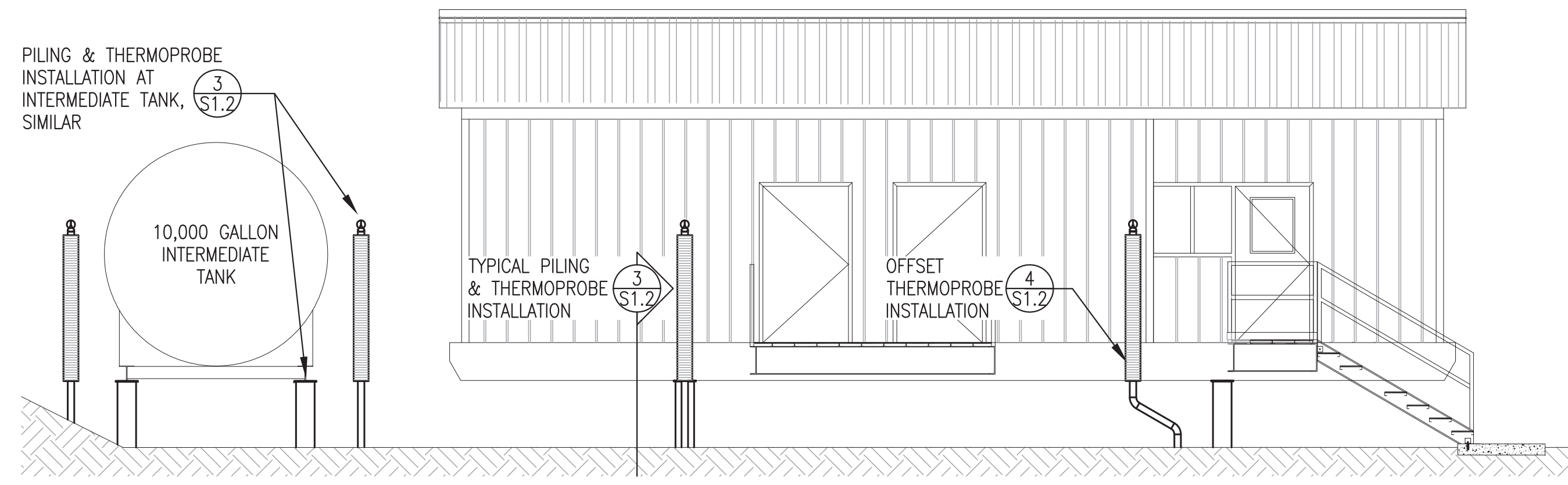
- NOTES:  
1) MODULE DEAD LOAD INCLUDES ALL FIXED EQUIPMENT.  
2) TANK DEAD LOAD INCLUDES FUEL AT CAPACITY.  
3) WIND AND SEISMIC ARE CONSIDERED TRANSIENT LOADS.

**MODULE FOUNDATION SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT**

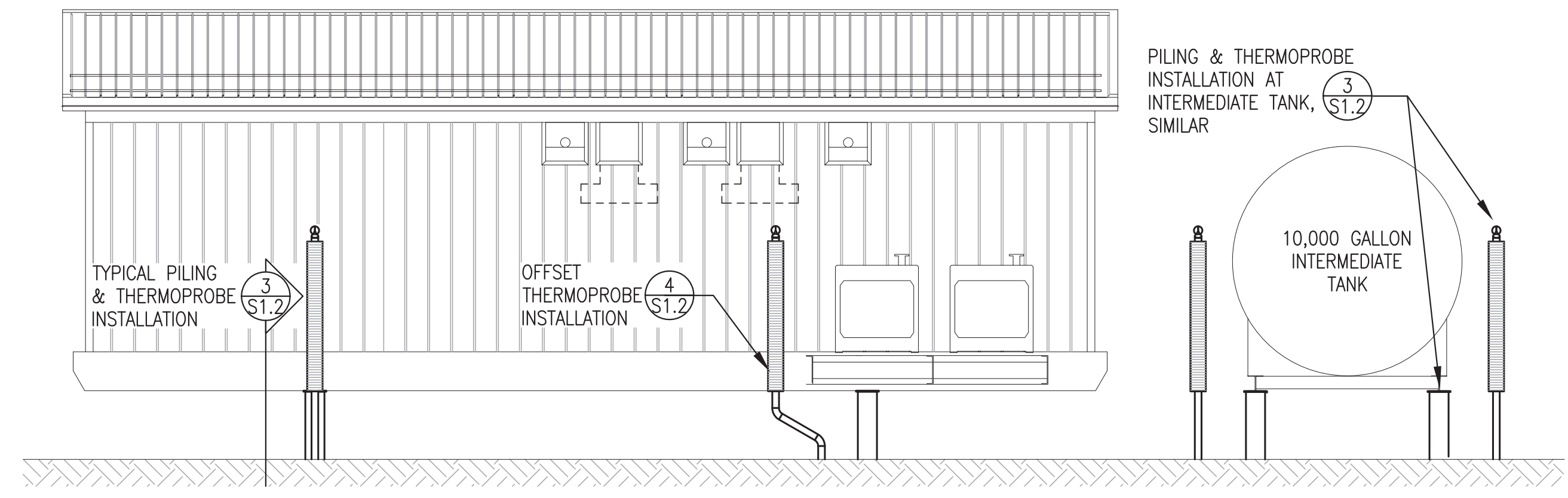
1	REVISED TO INCLUDE ONSITE FOUNDATION DESIGN	7/15/22	BCG
REV.	DESCRIPTION	DATE	BY
<p>ALASKA ENERGY AUTHORITY</p>			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: FOUNDATION PLAN, CODE ANALYSIS, & STRUCTURAL NOTES			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 2-18-22	
FILE NAME: RAM PP S1-S5		SHEET:	
PROJECT NUMBER:		<b>S1.1</b>	
P.O. 111405, Anchorage, AK 99511 (907)349-0100			

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ISSUED FOR  
CONSTRUCTION  
JULY 2022**

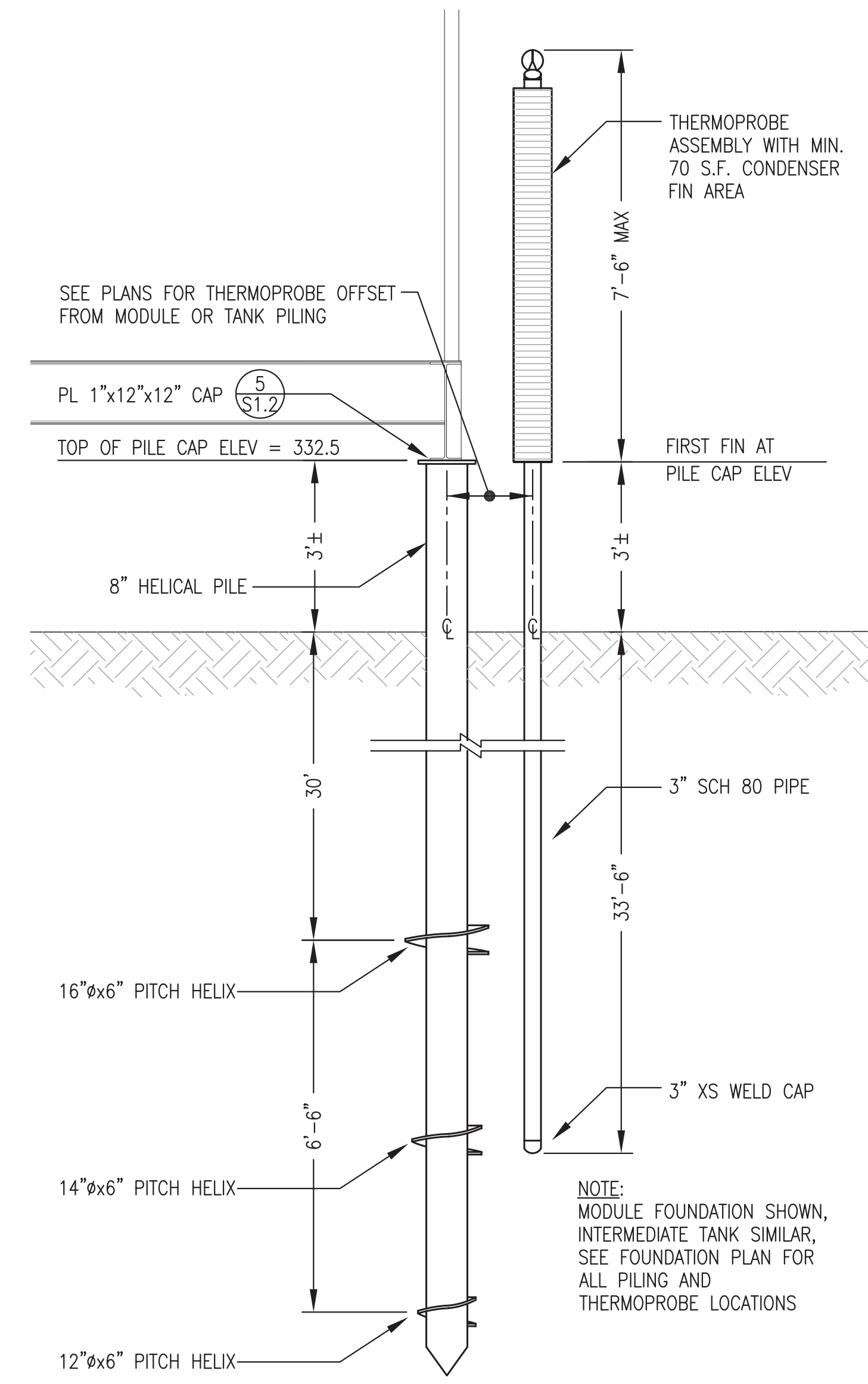




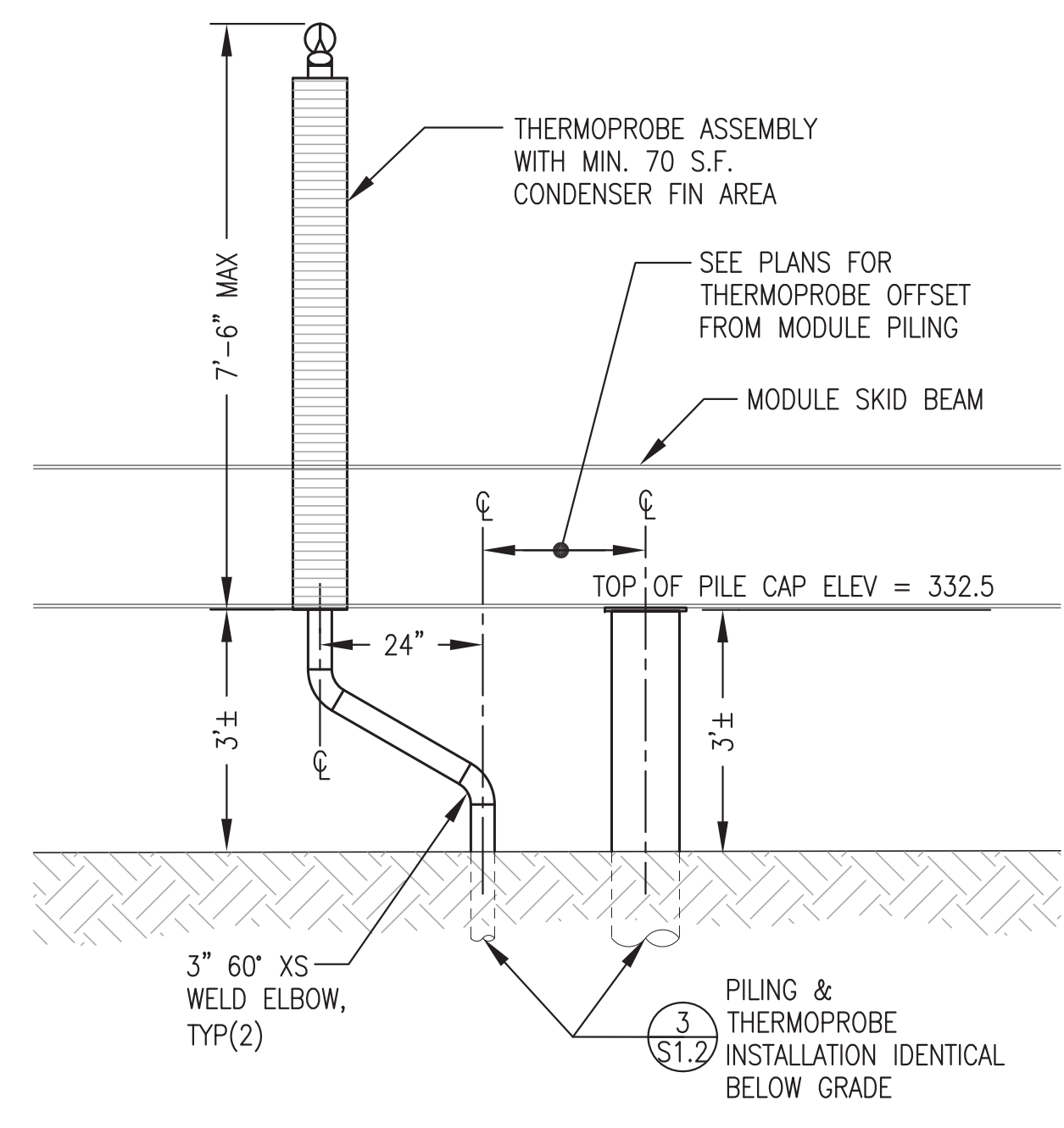
**1** FRONT FOUNDATION ELEVATION  
S1.2 1"=5'-0"



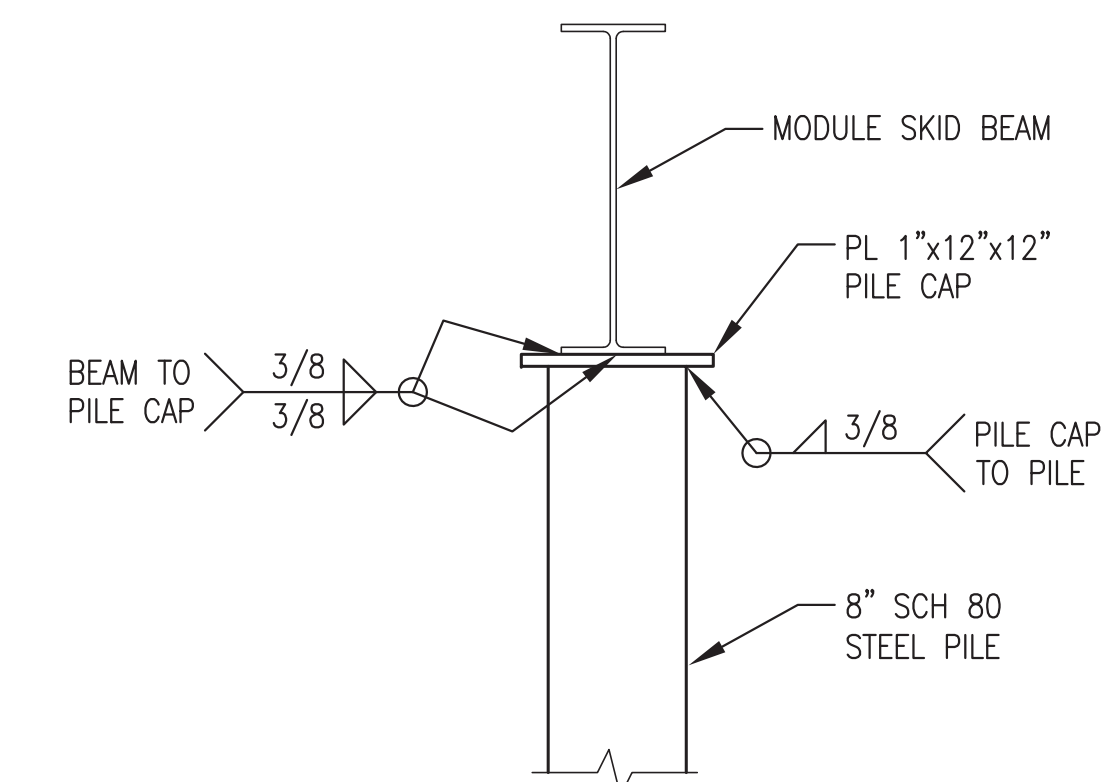
**2** BACK FOUNDATION ELEVATION  
S1.2 1"=5'-0"



**3** TYPICAL PILING AND THERMOPROBE INSTALLATION  
S1.2 NO SCALE



**4** OFFSET THERMOPROBE INSTALLATION  
S1.2 NO SCALE



**5** TYPICAL PILE CAP INSTALLATION  
S1.2 NO SCALE

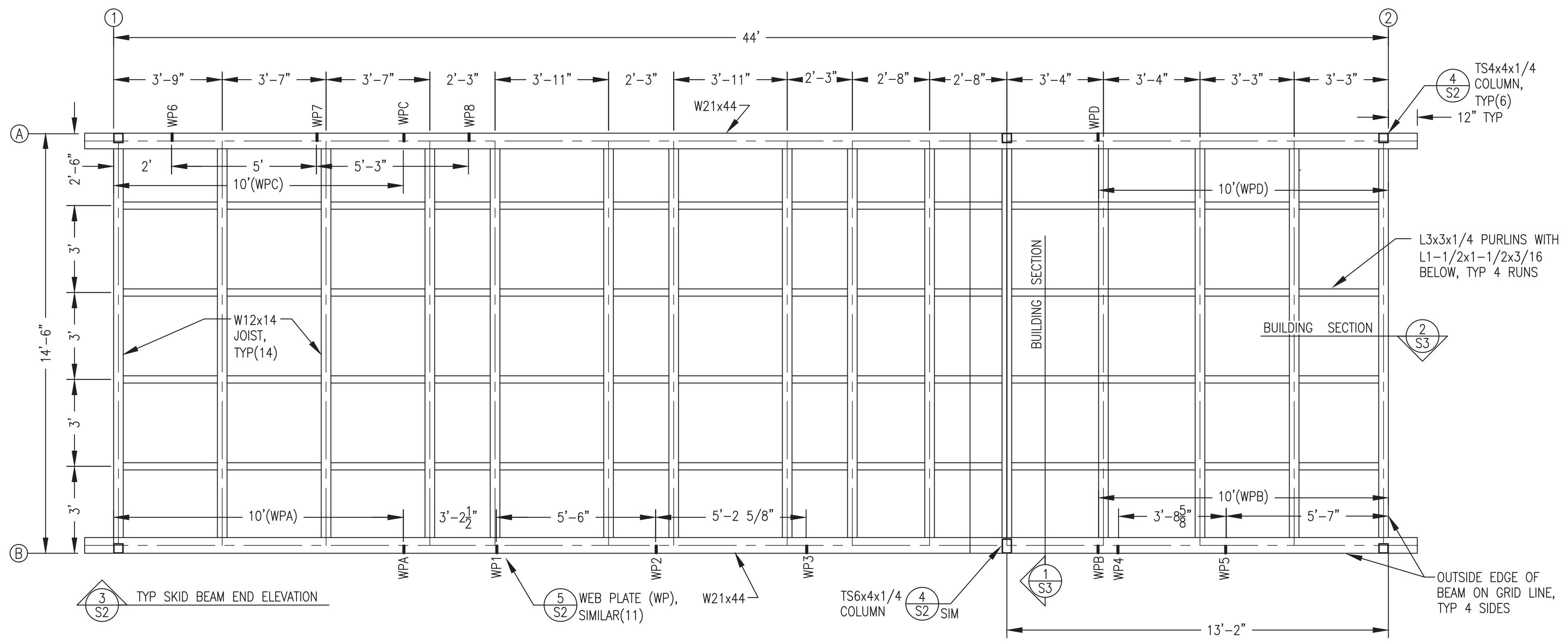
**MODULE FOUNDATION SYSTEM SHOWN THIS SHEET IS INCLUDED IN THE ON SITE CONTRACT**

1	UPDATED PILE CAP ELEVATION FOR CIVIL REDESIGN	12/22/23	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: FOUNDATION ELEVATIONS & DETAILS			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 7/15/22	
FILE NAME: RAM PP S1-S5		SHEET:	
PROJECT NUMBER:		<b>S1.2</b>	

REVISION #1  
ISSUED  
DECEMBER  
2023

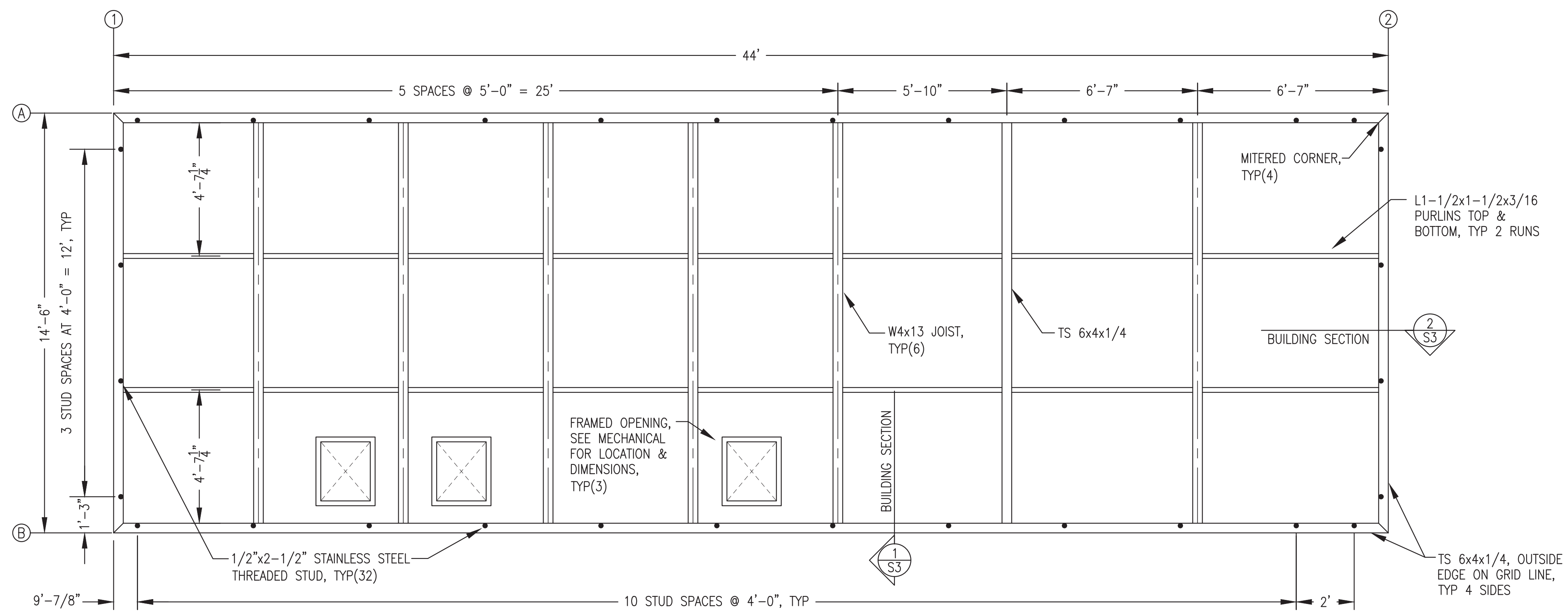






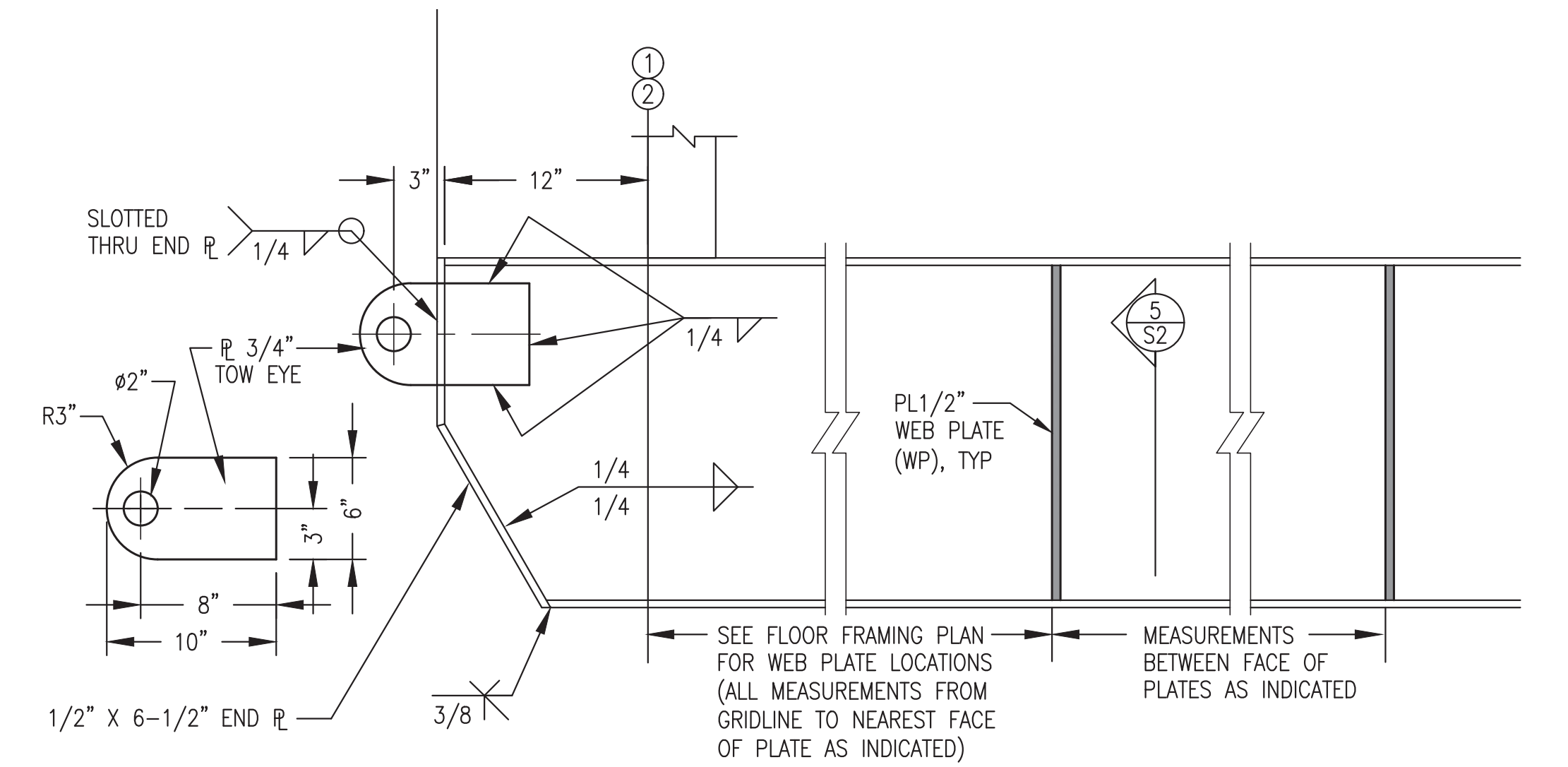
NOTES: 1) FABRICATE FLOOR AND PAN DECKS USING SHEETS CUT SO THAT ALL JOINTS ARE CENTERED ON PURLINS AND/OR JOISTS.  
 2) SEE MECHANICAL SUPPORT PLAN M2.2 FOR GENERATOR SUPPORT PEDESTAL LOCATIONS AND FABRICATION.

**1 FLOOR FRAMING PLAN**  
 S2 3/8"=1'-0"

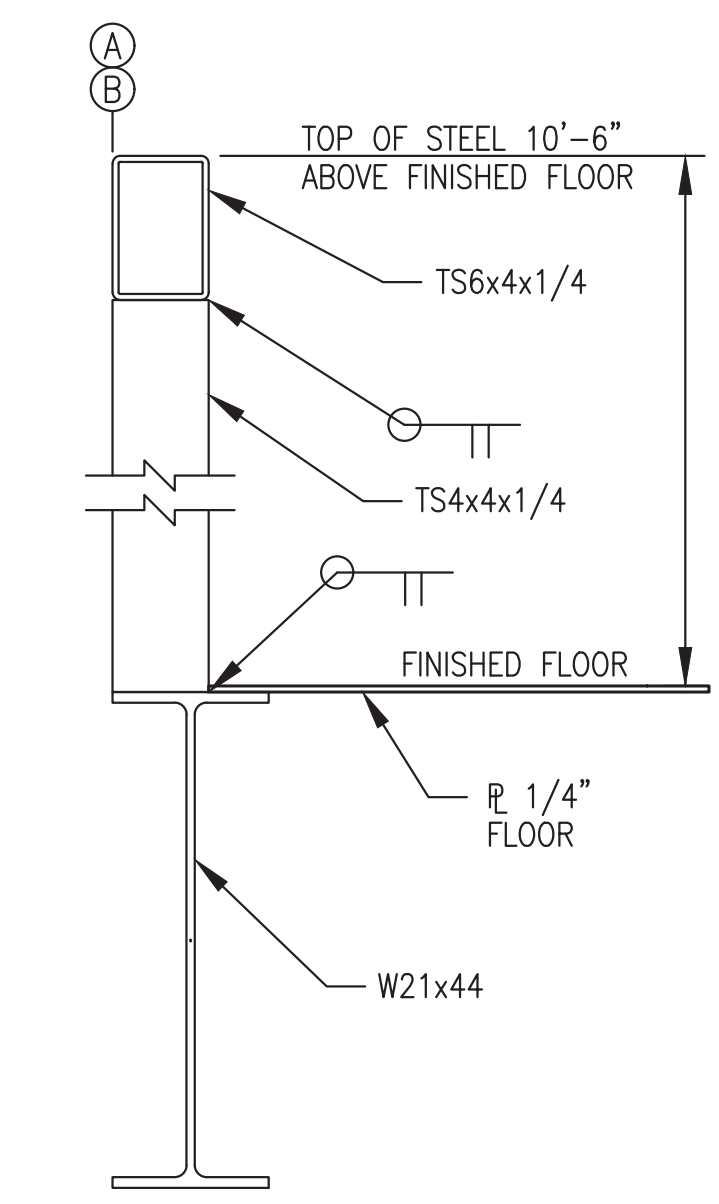


NOTES: 1) FABRICATE CEILING FLAT AND CORRUGATED DECKS USING SHEETS CUT SO THAT ALL JOINTS ARE CENTERED ON PURLINS AND/OR JOISTS.  
 2) SEE MECHANICAL SUPPORT PLAN M2.3 FOR CEILING CORRUGATION LAYOUT AND STRUT SUPPORT LOCATION AND INSTALLATION.  
 3) PROVIDE ADDITIONAL L1-1/2" BOTTOM PURLINS AGAINST PERIMETER TS AS REQUIRED FOR CEILING PLATE SUPPORT.

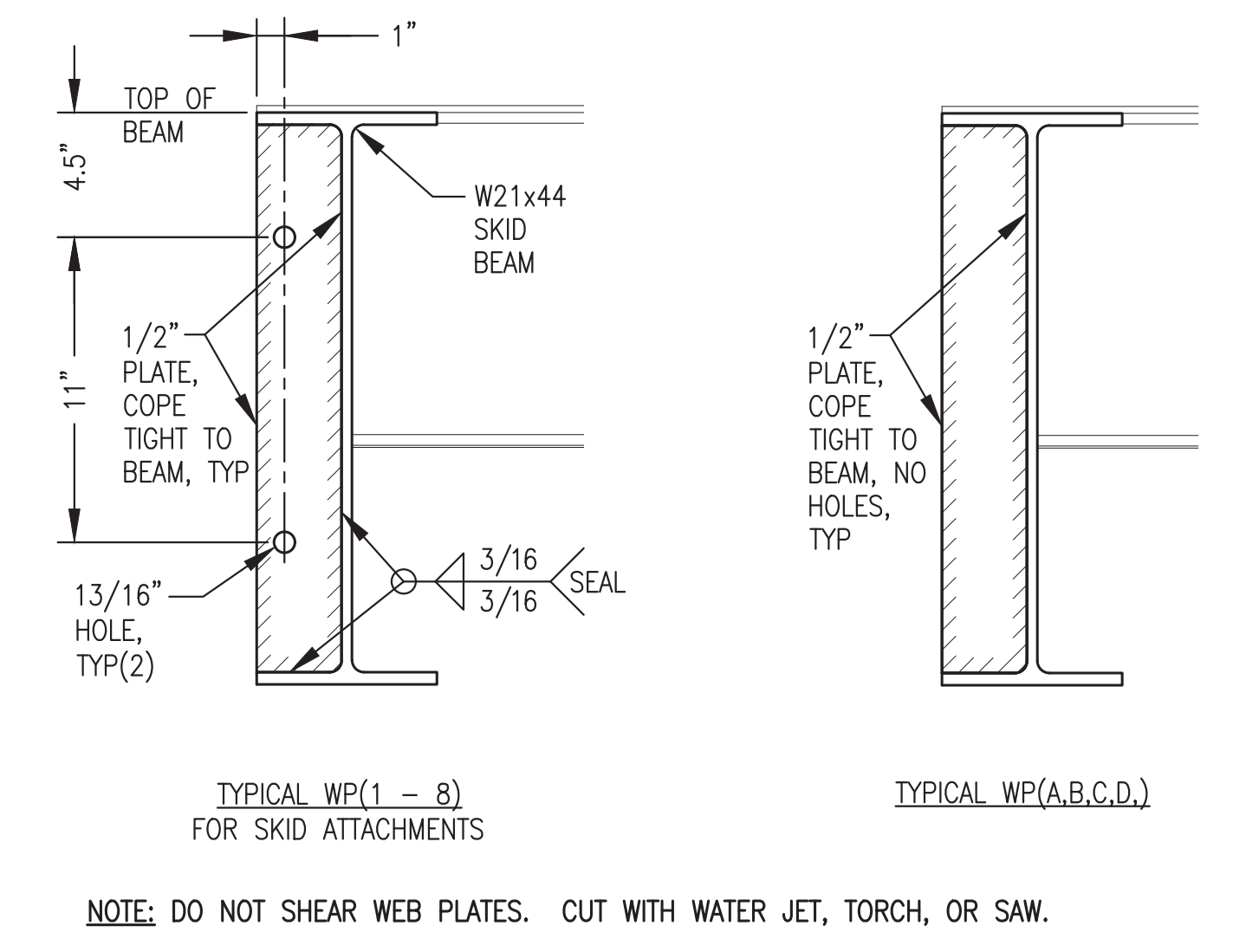
**2 CEILING FRAMING PLAN**  
 S2 3/8"=1'-0"



**3 TYPICAL SKID BEAM END ELEVATION**  
 S2 1-1/2"=1'-0"



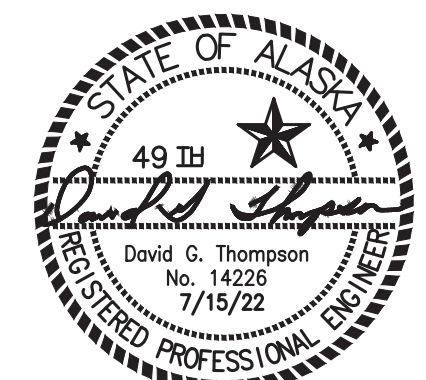
**4 TYP CORNER COLUMN**  
 S2 1-1/2"=1'-0"



**5 TYPICAL WEB PLATE (WP)**  
 S2 2"=1'-0"

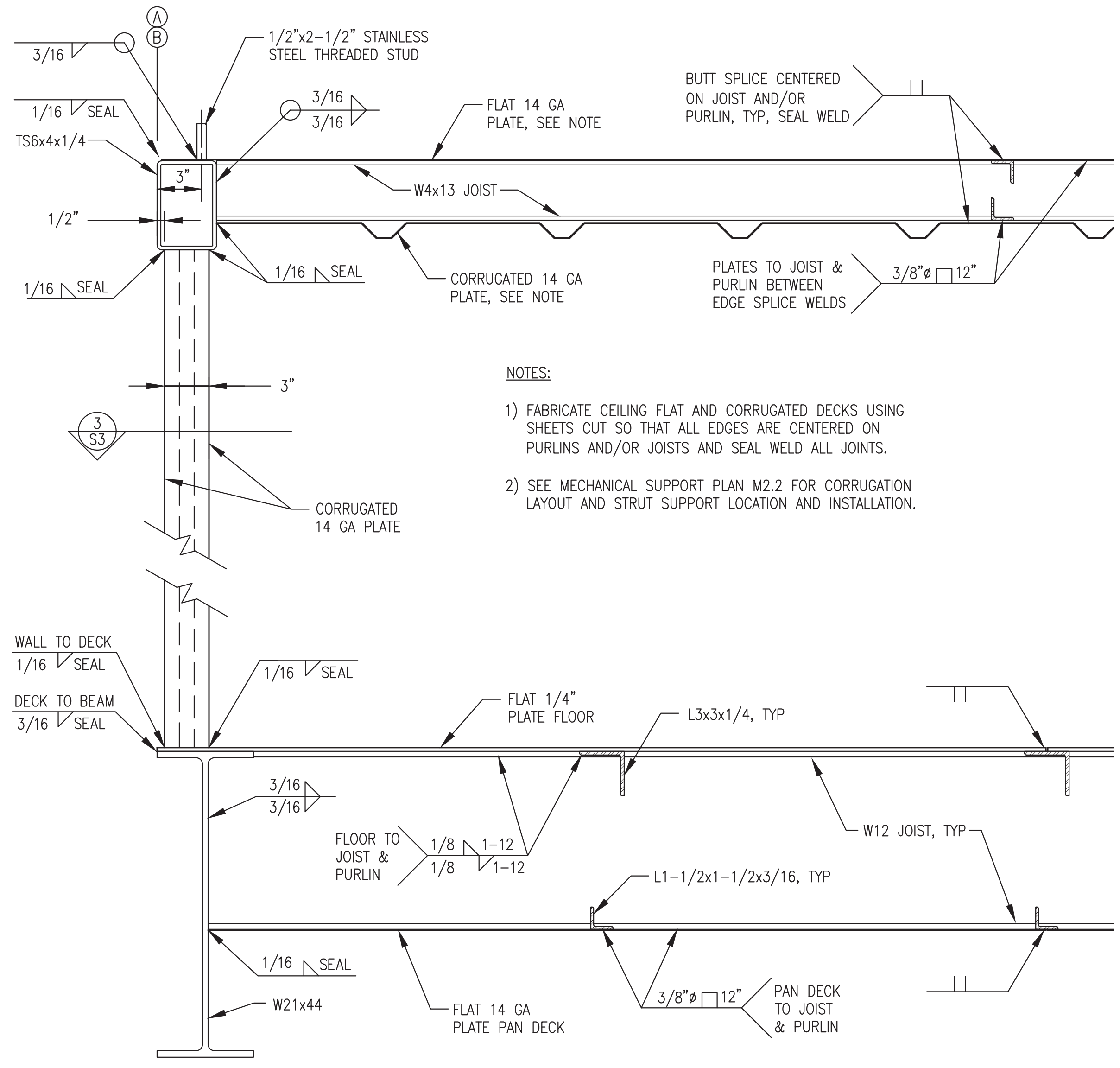
ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE FABRICATION CONTRACT AND IS SHOWN HERE FOR REFERENCE ONLY

REVISION #1  
 ISSUED JUNE  
 2022



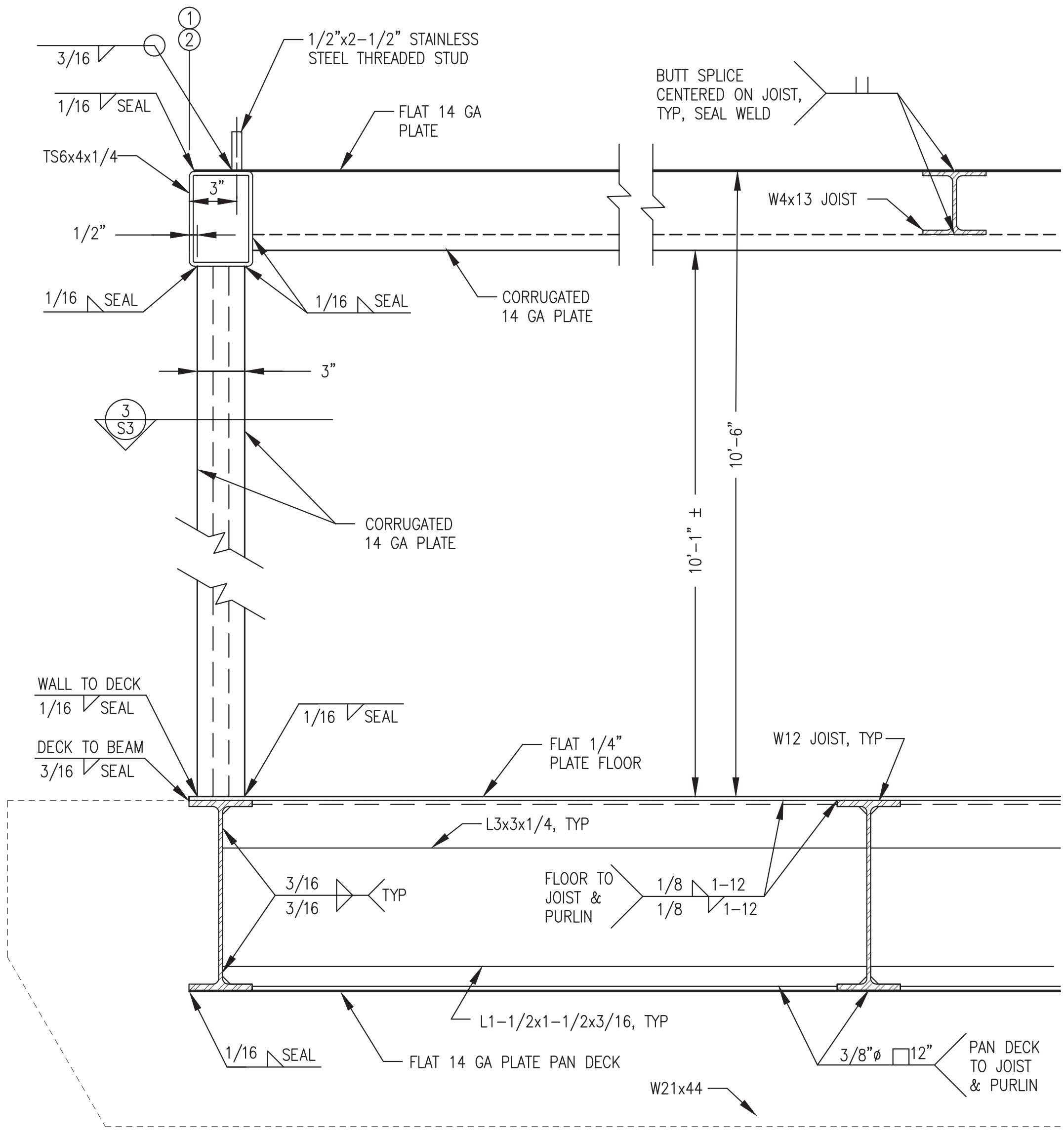
1	MOVED CEILING PURLINS TO MATCH 55" CEILING PANELS PER FABRICATOR REQUEST	6/2/22	BCG
REV.	DESCRIPTION	DATE	BY
 <b>ALASKA ENERGY AUTHORITY</b>			
<b>PROJECT:</b> RAMPART POWER SYSTEM UPGRADE			
<b>TITLE:</b> MODULE FRAMING PLANS & DETAILS			
DRAWN BY: JTD DESIGNED BY: DGT/BCG		SCALE: AS NOTED DATE: 3/15/22	
FILE NAME: RAM_PP_S1-S5 PROJECT NUMBER:		<b>S2</b>	
P.O. 111405, Anchorage, AK 99511 (907)349-0100			



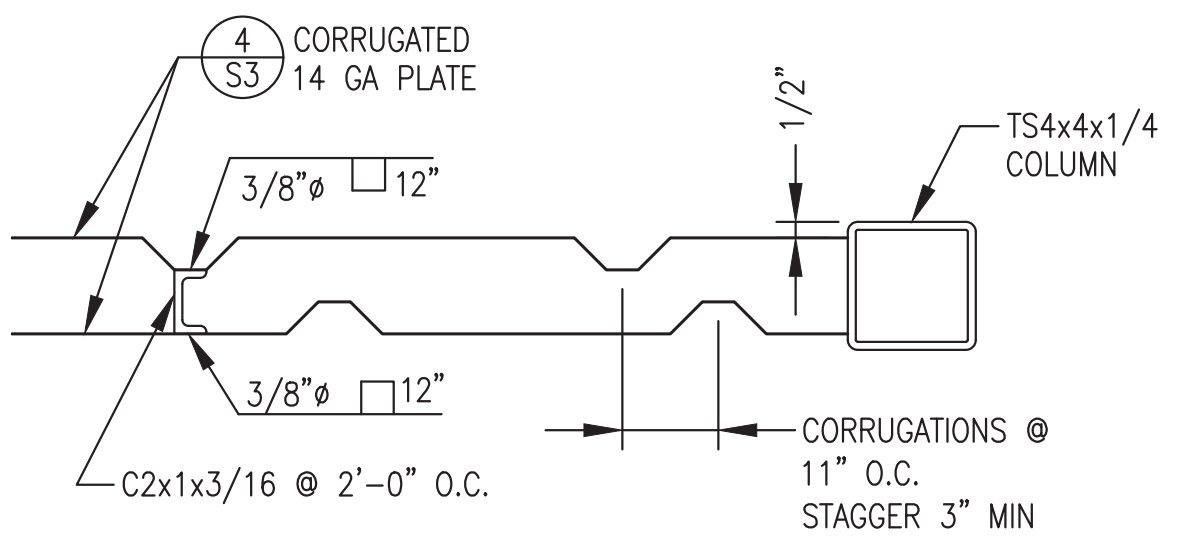


- NOTES:
- 1) FABRICATE CEILING FLAT AND CORRUGATED DECKS USING SHEETS CUT SO THAT ALL EDGES ARE CENTERED ON PURLINS AND/OR JOISTS AND SEAL WELD ALL JOINTS.
  - 2) SEE MECHANICAL SUPPORT PLAN M2.2 FOR CORRUGATION LAYOUT AND STRUT SUPPORT LOCATION AND INSTALLATION.

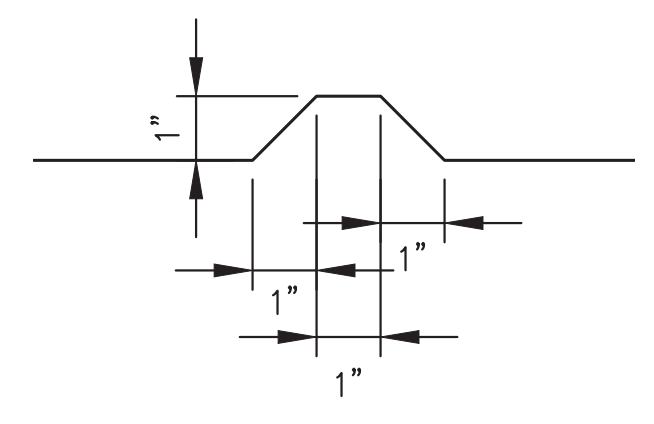
1 TYPICAL BUILDING SECTION  
S3 2"=1'-0"



2 TYPICAL BUILDING SECTION  
S3 2"=1'-0"



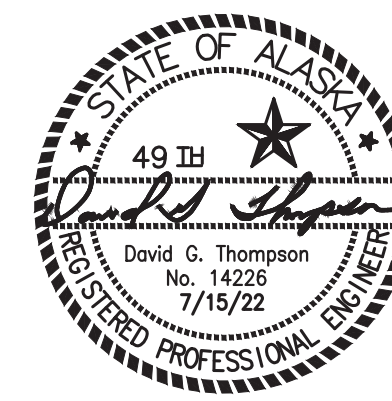
3 TYPICAL EXTERIOR WALL - PLAN VIEW  
S3 2"=1'-0"




4 TYPICAL CORRUGATION  
S3 4"=1'-0"

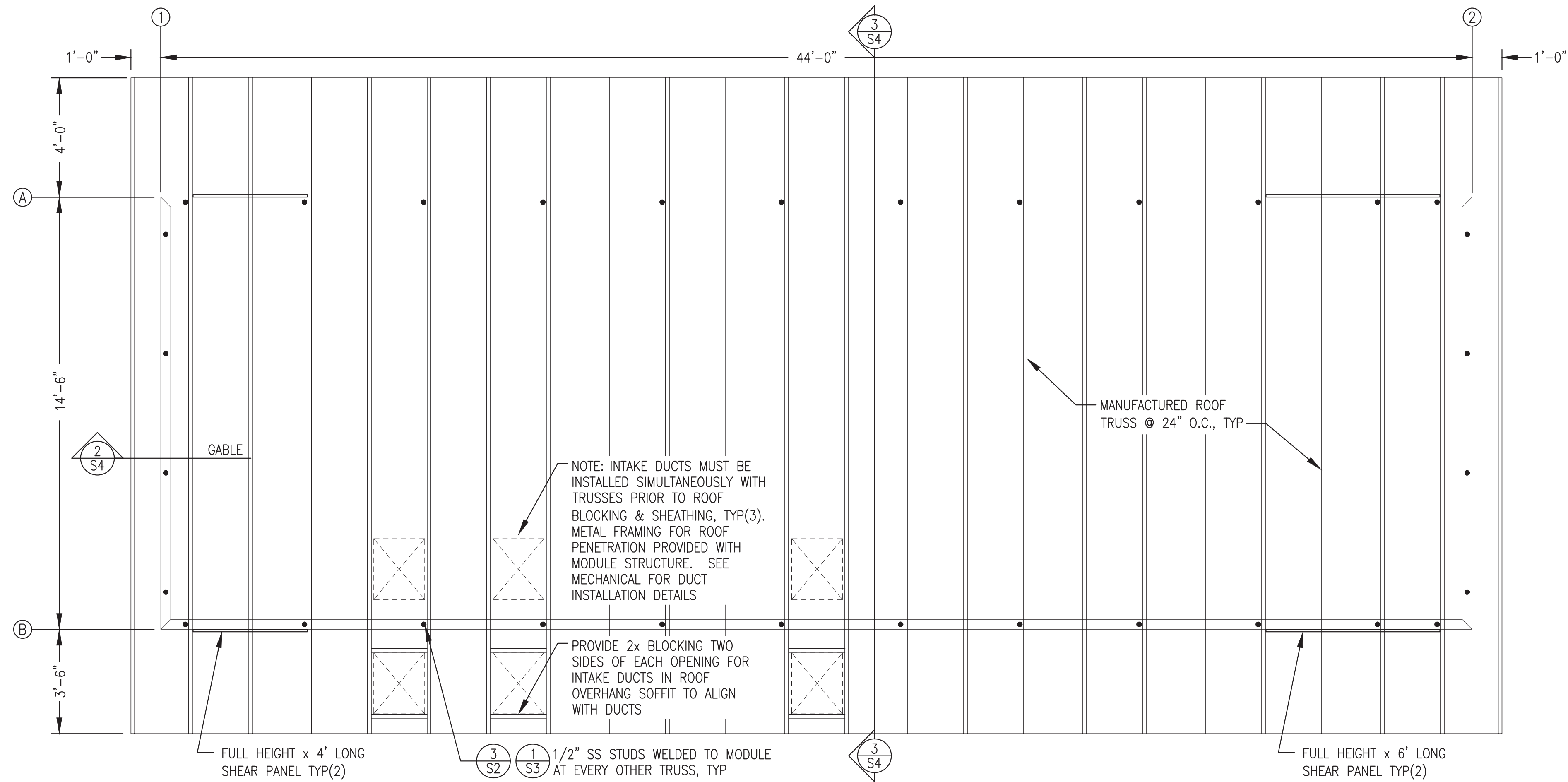
ALL WORK ON THIS SHEET WAS PERFORMED AS PART OF THE PRIOR MODULE FABRICATION CONTRACT AND IS SHOWN HERE FOR REFERENCE ONLY

REVISION #1  
ISSUED JUNE  
2022

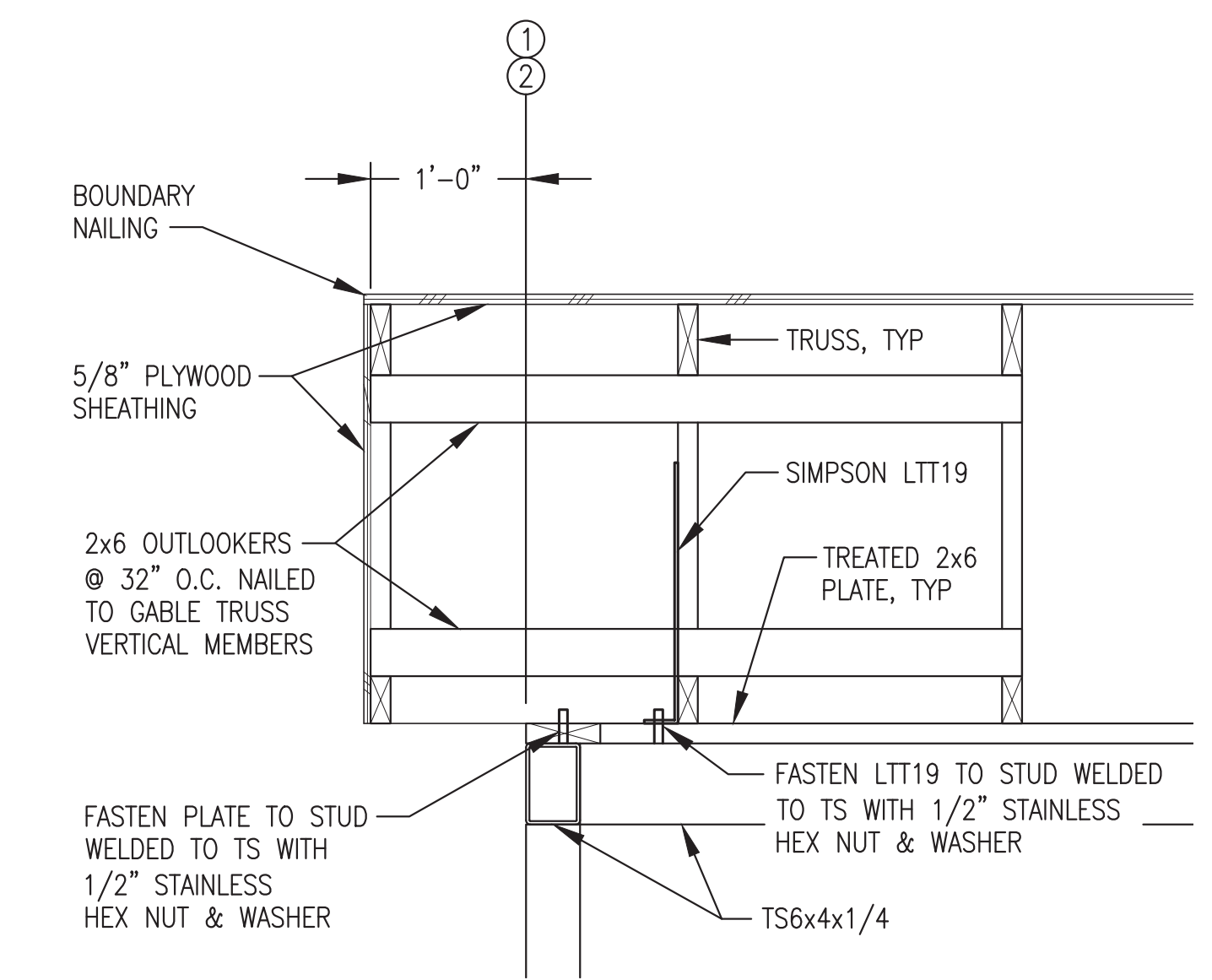


1	CHANGED INTERIOR PLATE CORRUGATIONS TO 11" O.C. PER FABRICATOR REQUEST	6/2/22	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: MODULE SECTIONS DETAILS			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 3/15/22	
FILE NAME: RAM PP S1-S5		SHEET:	
PROJECT NUMBER:		S3	
P.O. 111405, Anchorage, AK 99511 (907)349-0100			

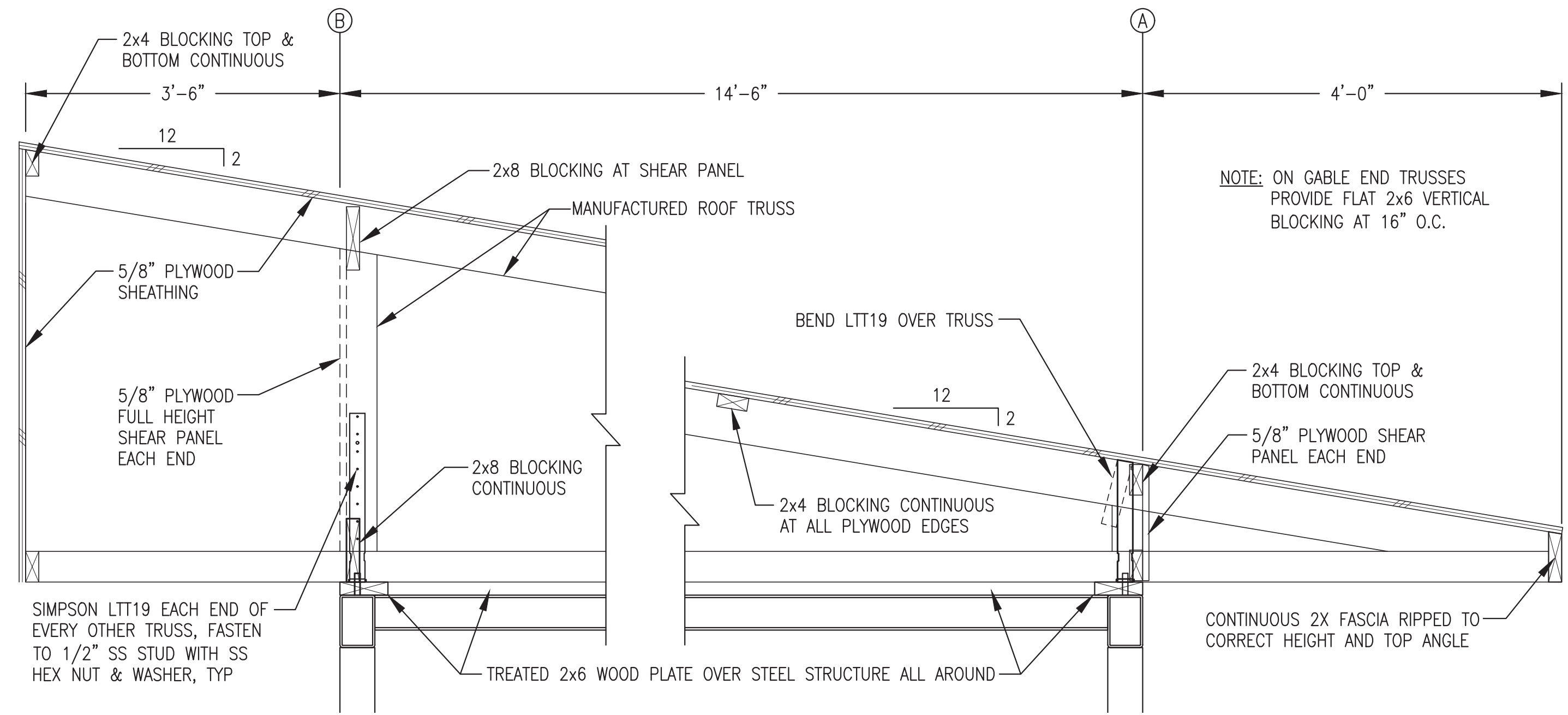




**1**  
S4  
ROOF FRAMING PLAN  
3/8"=1'-0"



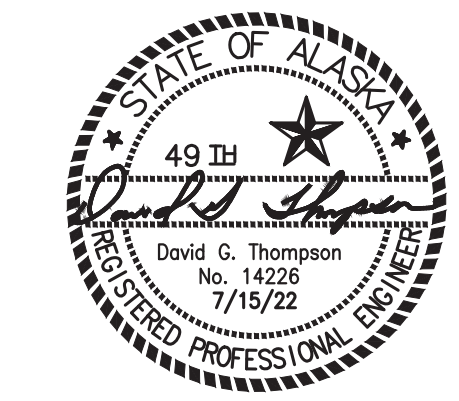
**2**  
S4  
TYPICAL GABLE  
1"=1'-0"




**3**  
S4  
ROOF TRUSS INSTALLATION  
NO SCALE

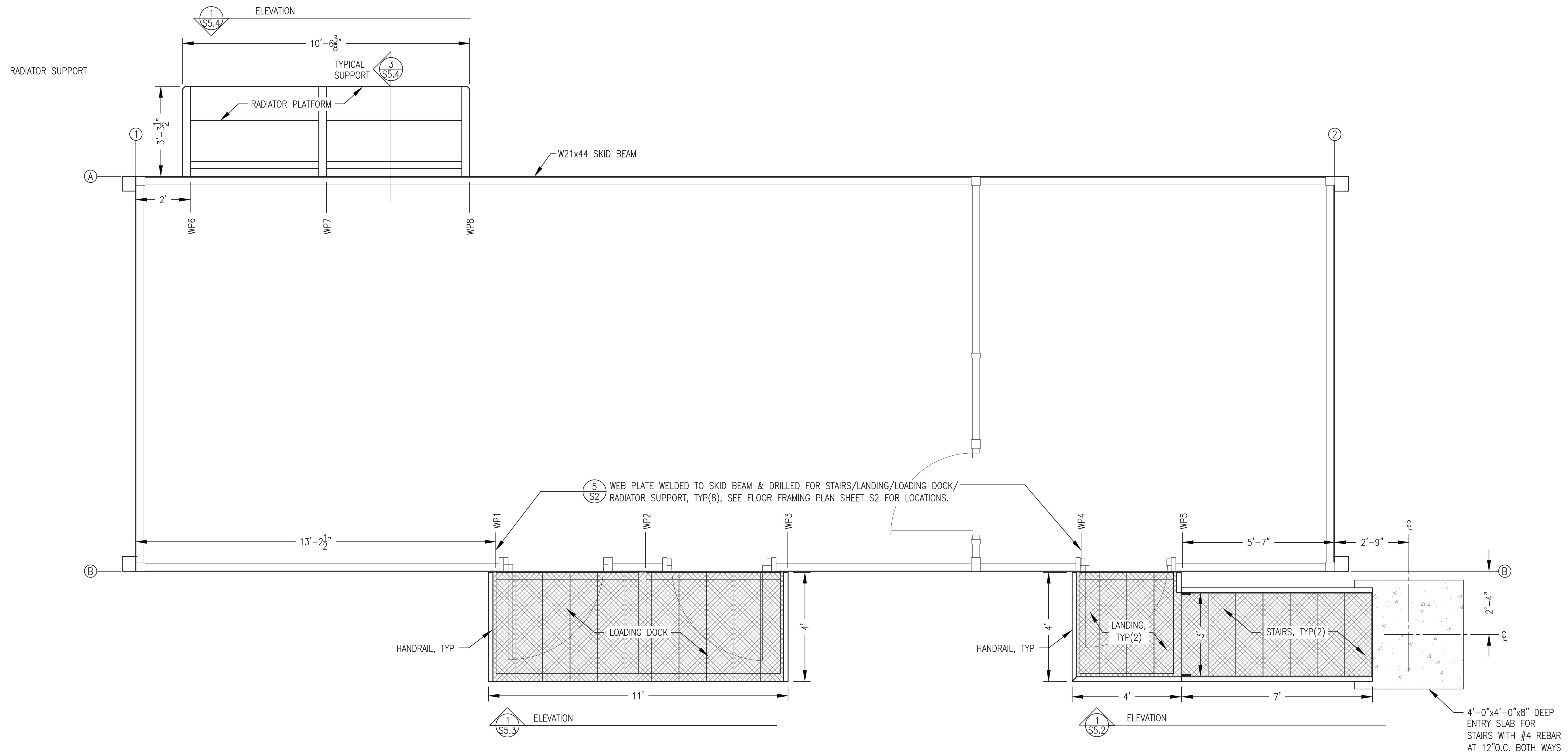
**STAINLESS STEEL STUDS WERE WELDED TO THE MODULE AS PART OF THE PRIOR MODULE FABRICATION CONTRACT. ALL OTHER WORK THIS SHEET IS INCLUDED IN THE ON SITE**

**REVISION #1  
ISSUED FOR  
CONSTRUCTION  
JULY 2022**



1	REVISED FOR INTAKE DUCT INSTALLATION NOTES	7/15/22	BCG
REV.	DESCRIPTION	DATE	BY
 <b>ALASKA ENERGY AUTHORITY</b>			
PROJECT: <b>RAMPART POWER SYSTEM UPGRADE</b>			
TITLE: <b>ROOF FRAMING PLAN &amp; DETAILS</b>			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 3/15/22	
FILE NAME: RAM PP S1-S5		SHEET:	
PROJECT NUMBER:		<b>S4</b>	
P.O. 111405, Anchorage, AK 99511 (907)349-0100			






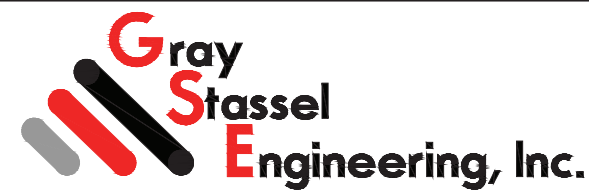
1 STAIRS, LANDINGS, LOADING DOCK & RADIATOR SUPPORT PLAN  
 S5.1 1/2"=1'-0"

ALL EXTERIOR ASSEMBLIES THIS SHEET WERE FABRICATED AS PART OF THE PRIOR MODULE FABRICATION. CONCRETE SLAB AND FINAL INSTALLATION OF EXTERIOR ASSEMBLIES IS INCLUDED IN THE ON SITE SCOPE

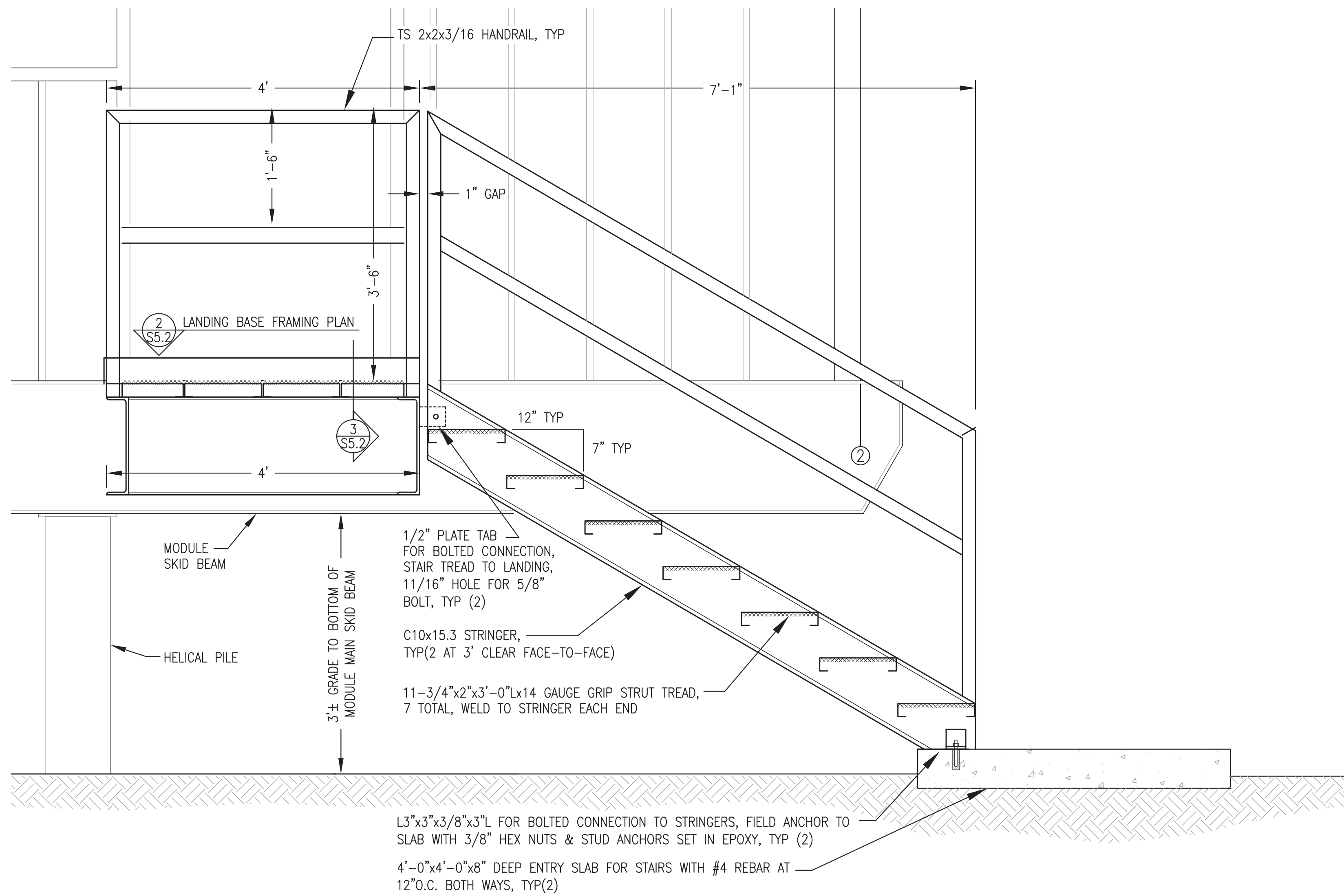
- EXTERIOR ASSEMBLY FABRICATION GENERAL NOTES:**
- 1) THESE NOTES APPLY TO THE SHOP FABRICATION OF ALL EXTERIOR ASSEMBLIES SHOWN ON THE S5 SHEETS INCLUDING STAIRS, LANDINGS, LOADING DOCK, & RADIATOR SUPPORT.
  - 2) FABRICATE FROM ASTM A-36 STEEL SHAPES AND PLATE. STAIR AND PLATFORM TREADS TO BE PRE-GALVANIZED 2"x11-3/4"x12 GA. GRIP STRUT.
  - 3) RACK ALL SUPPORT BRACKETS LEVEL & PERPENDICULAR TO SKID WITH CONNECTIONS BOLTED TIGHT PRIOR TO WELDING.
  - 4) MAKE ALL JOINTS WITH CONTINUOUS GROOVE OR FILLET WELDS.
  - 5) SANDBLAST OR WIRE BRUSH ENDS OF PRE-GALV TREADS PRIOR TO WELDING TREADS TO STRUCTURE.
  - 6) UPON COMPLETION OF WELDING ROUND CORNERS AND GRIND EDGES SMOOTH.
  - 7) SANDBLAST ALL FABRICATIONS EXCEPT PRE-GALVANIZED GRIP STRUT TO SSPC-SP-6 AND APPLY 3 COATS OF COLD GALVANIZING COMPOUND, ZRC OR EQUAL.
  - 8) FURNISH GALVANIZED STEEL NUTS, BOLTS, AND WASHERS FOR FIELD ASSEMBLY.

REVISION #1  
 ISSUED  
 DECEMBER  
 2023

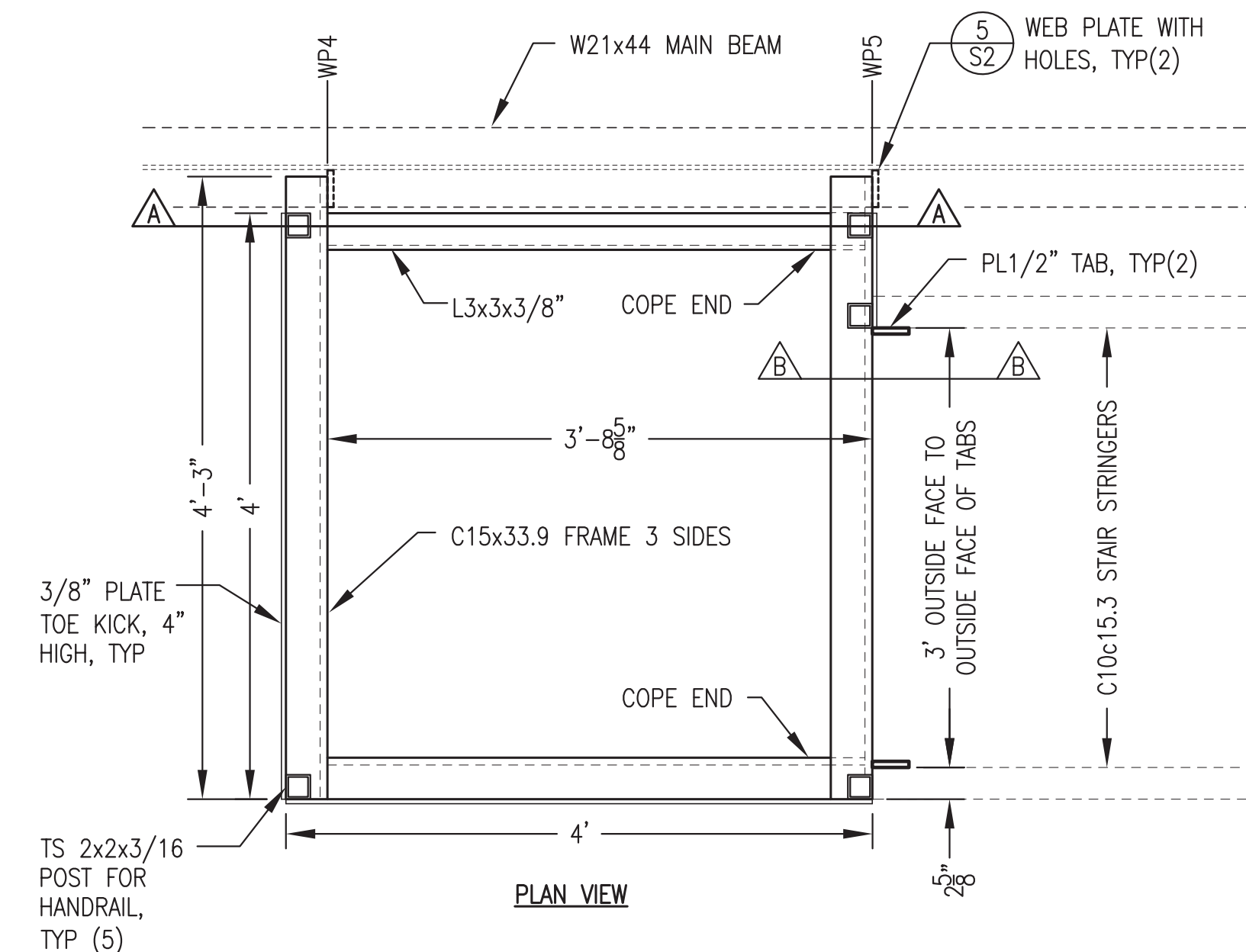


1	INCREASE SLAB TO 8" DEPTH TO MATCH CIVIL REDESIGN	12/22/23	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: STAIRS, LANDINGS, LOADING DOCK, & RADIATOR SUPPORT PLAN			
 Gray Stassel Engineering, Inc. P.O. 111405, Anchorage, AK 99511 (907)349-0100	DRAWN BY: JTD DESIGNED BY: DGT/BCG FILE NAME: RAM PP S1-S5 PROJECT NUMBER:	SCALE: AS NOTED DATE: 3/15/22 SHEET:	<b>S5.1</b>



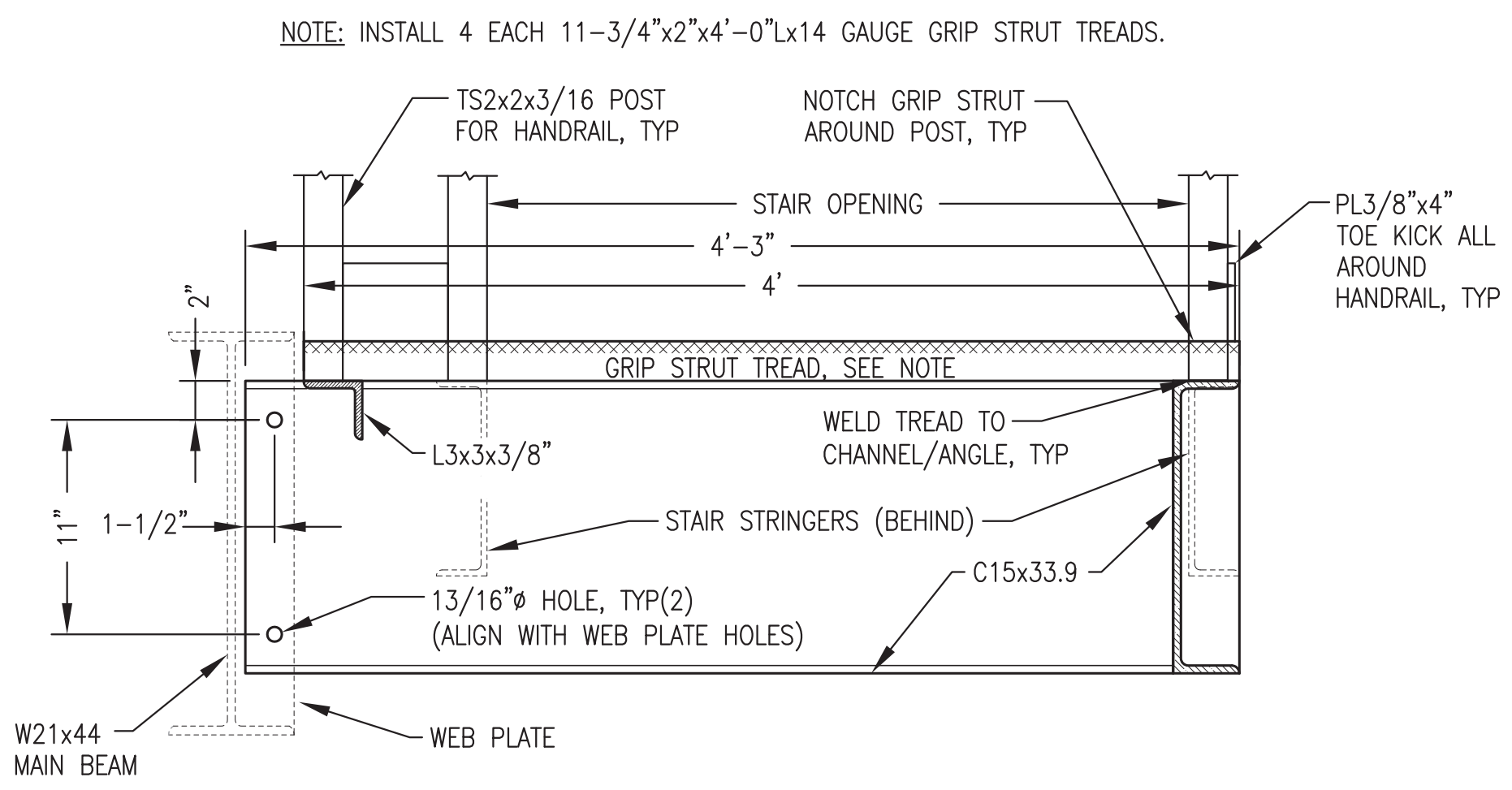


1 STAIR/LANDING ELEVATION  
S5.2 1"=1'-0"



2 LANDING BASE FRAMING PLAN & SECTIONS  
S5.2 1"=1'-0"

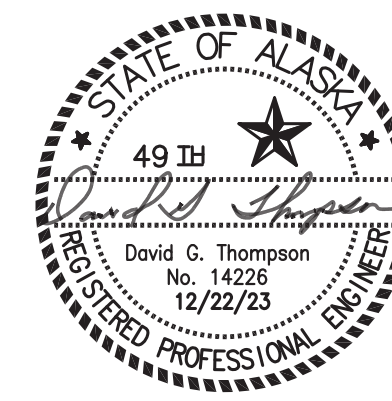
ALL EXTERIOR ASSEMBLIES THIS SHEET WERE FABRICATED AS PART OF THE PRIOR MODULE FABRICATION. CONCRETE SLAB AND FINAL INSTALLATION OF EXTERIOR ASSEMBLIES IS INCLUDED IN THE ON SITE SCOPE



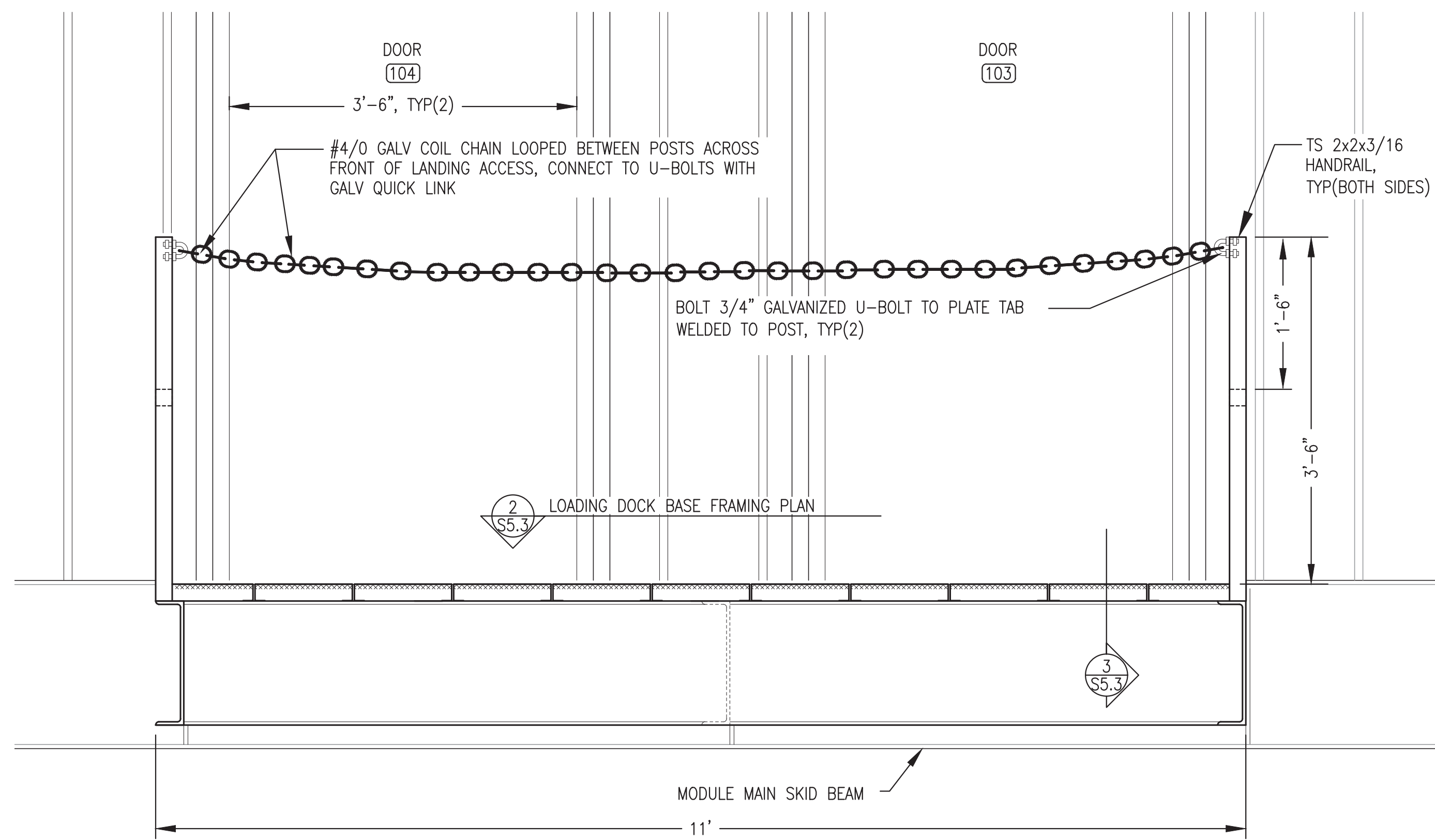
3 LANDING SECTION & MAIN BEAM CONNECTION DETAIL  
S5.2 1-1/2"=1'-0"

2	INCREASE SLAB TO 8" DEPTH TO MATCH CIVIL REDESIGN	12/22/23	BCG
1	REVISED FOR ONSITE FOUNDATION DESIGN	7/15/22	BCG
REV.	DESCRIPTION	DATE	BY
 ALASKA ENERGY AUTHORITY			
PROJECT: RAMPART POWER SYSTEM UPGRADE			
TITLE: STAIRS/LANDINGS FABRICATION DETAILS			
DRAWN BY: JTD		SCALE: AS NOTED	
DESIGNED BY: DGT/BCG		DATE: 3/15/22	
FILE NAME: RAM PP S1-S5		SHEET:	
PROJECT NUMBER:		S5.2	
P.O. 111405, Anchorage, AK 99511 (907)349-0100			

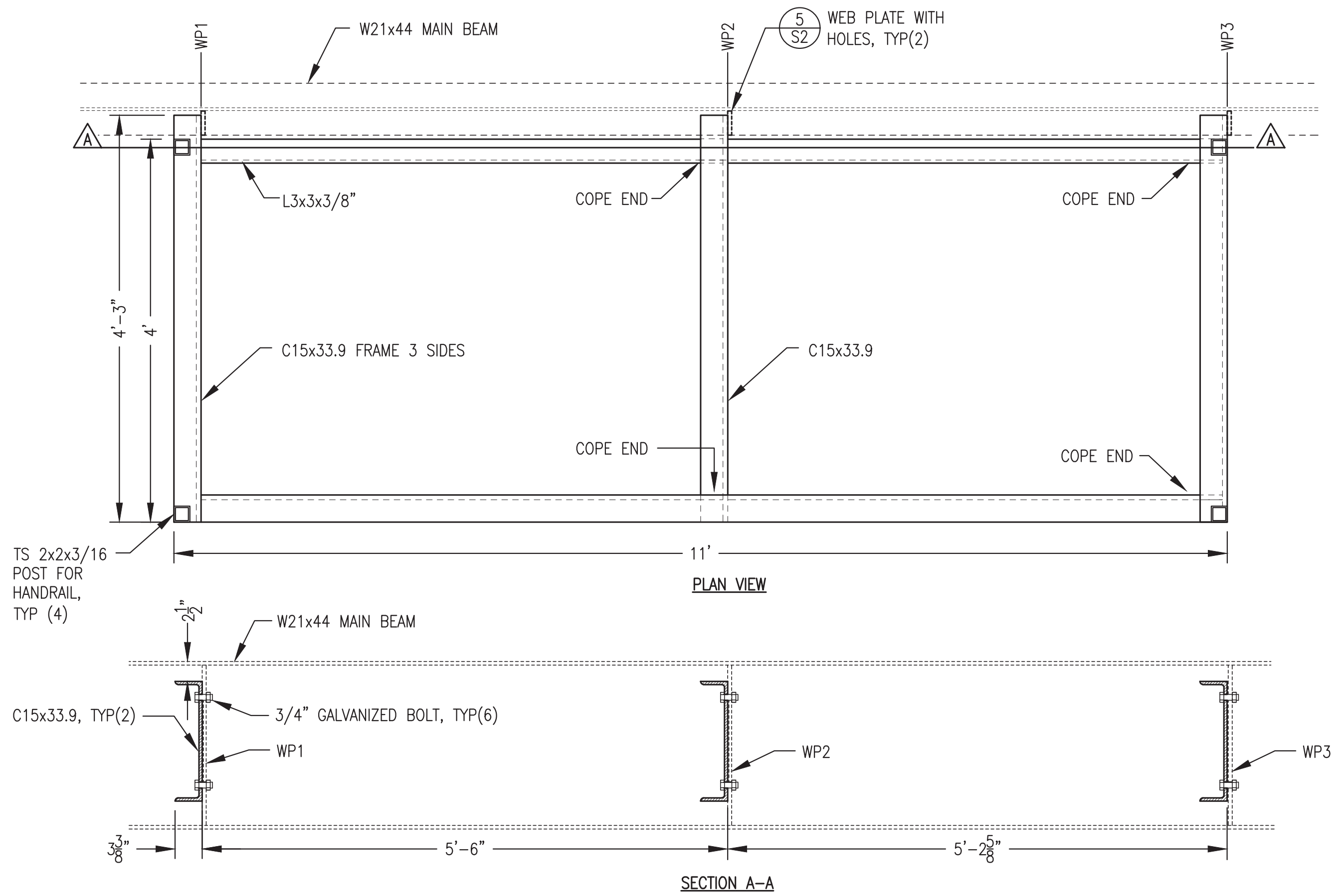
REVISION #2  
ISSUED  
DECEMBER  
2023



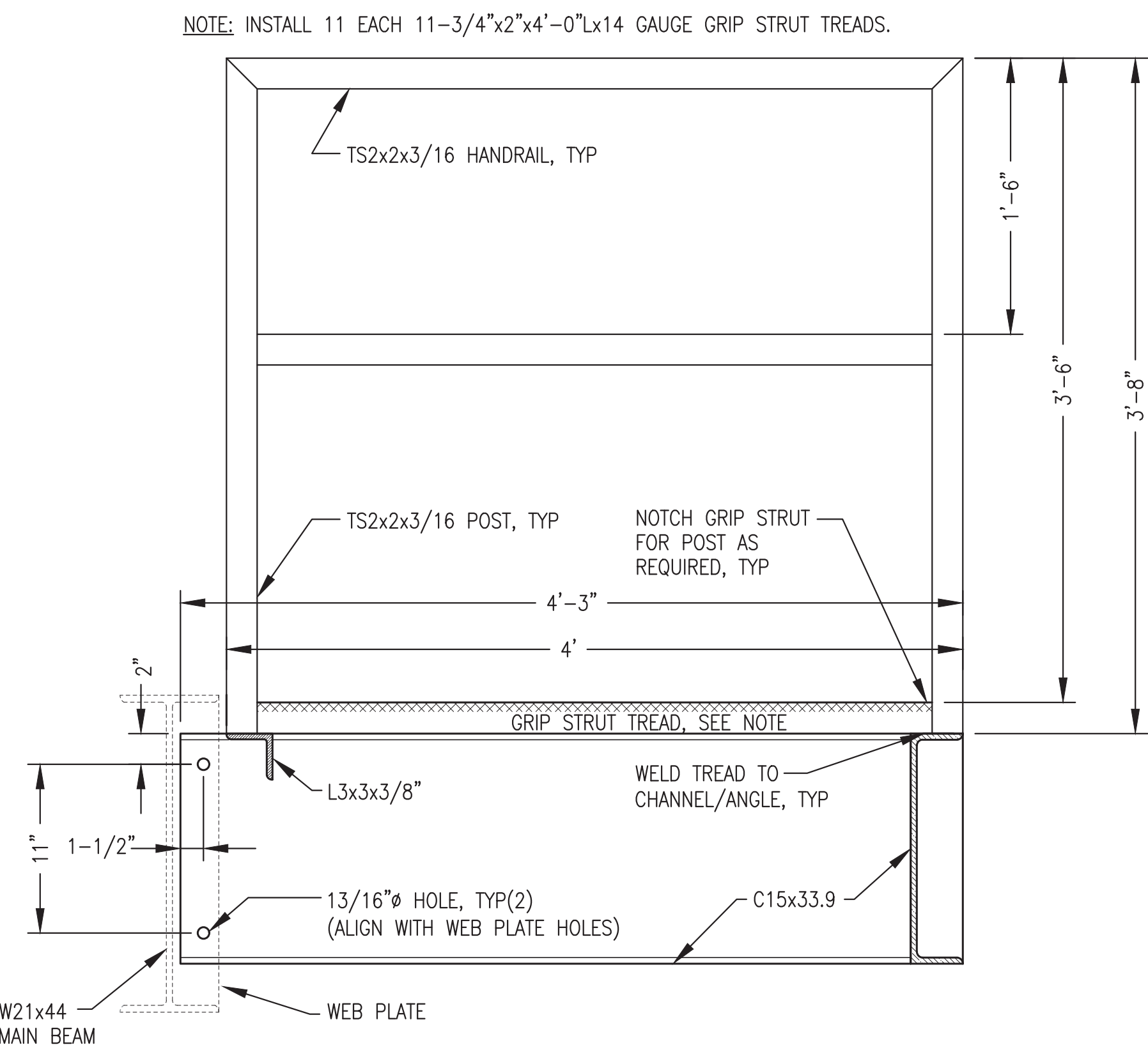




1 **LOADING DOCK ELEVATION**  
S5.3 1"=1'-0"



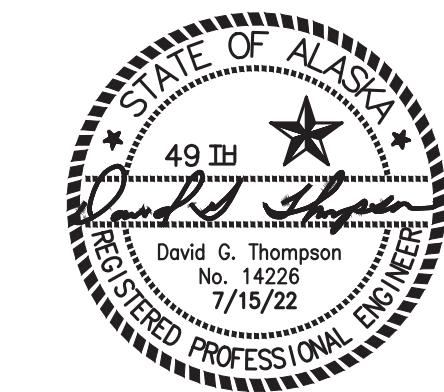
2 **LOADING DOCK BASE FRAMING PLAN & SECTION**  
S5.3 1"=1'-0"



3 **LOADING DOCK SECTION & MAIN BEAM CONNECTION DETAIL**  
S5.3 1-1/2"=1'-0"

ALL EXTERIOR ASSEMBLIES THIS SHEET WERE FABRICATED AS PART OF THE PRIOR MODULE FABRICATION. FINAL INSTALLATION OF EXTERIOR ASSEMBLIES IS INCLUDED IN THE ON SITE SCOPE

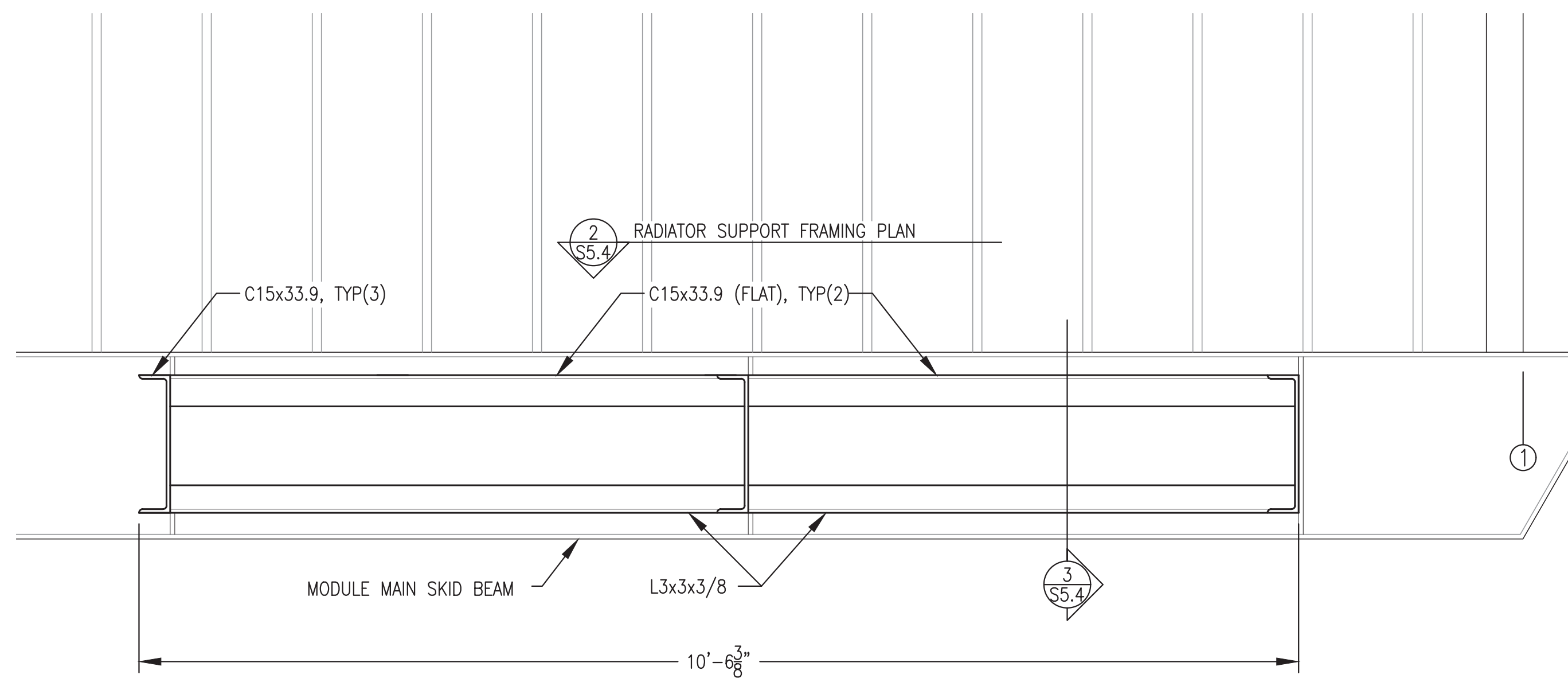
ISSUED FOR  
MODULE  
CONSTRUCTION  
MARCH 2022



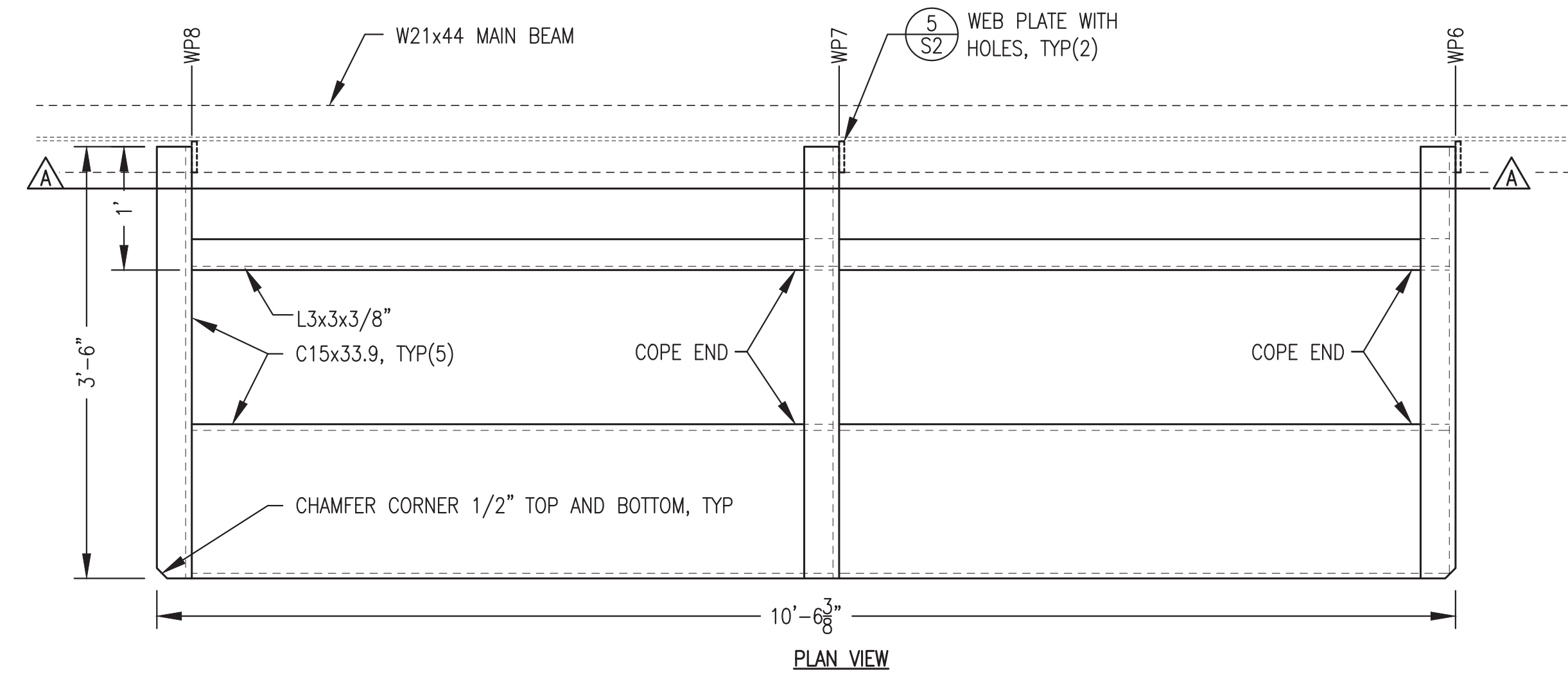
PROJECT: <b>RAMPART POWER SYSTEM UPGRADE</b>		
TITLE: <b>LOADING DOCK FABRICATION DETAILS</b>		
DRAWN BY: JTD	SCALE: AS NOTED	
DESIGNED BY: DGT/BCG	DATE: 3/15/22	
FILE NAME: RAM PP S1-S5	SHEET:	
PROJECT NUMBER:		<b>S5.3</b>

P.O. 111405, Anchorage, AK 99511 (907)349-0100

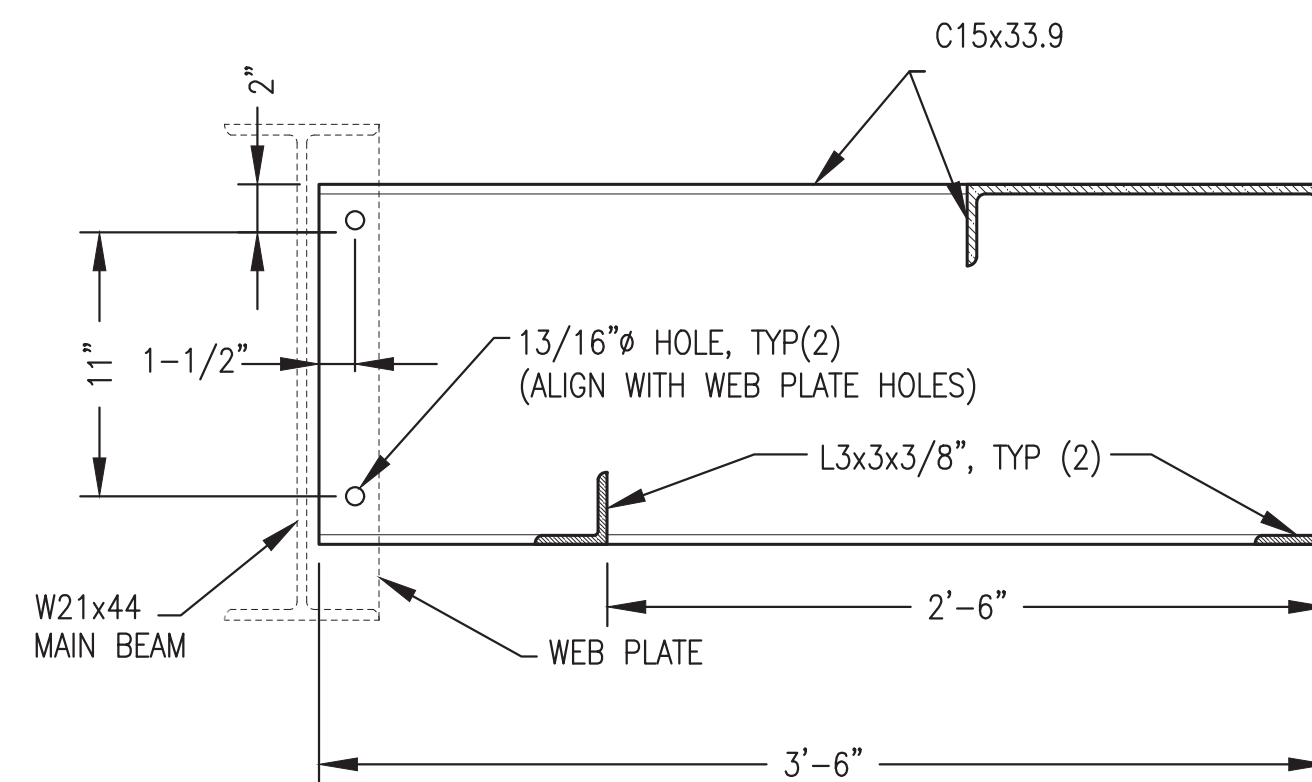




1 RADIATOR SUPPORT ELEVATION  
S5.4 1"=1'-0"



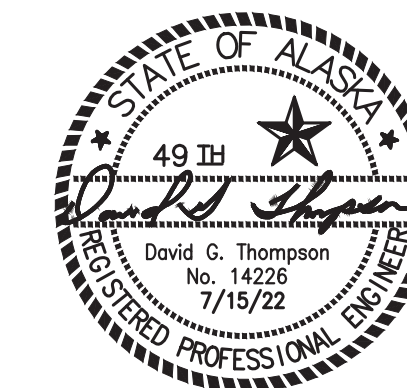
2 RADIATOR SUPPORT FRAMING PLAN & SECTION  
S5.4 1"=1'-0"



3 RADIATOR SUPPORT SECTION & MAIN BEAM CONNECTION DETAIL  
S5.4 1-1/2"=1'-0"

ALL EXTERIOR ASSEMBLIES THIS SHEET WERE FABRICATED AS PART OF THE PRIOR MODULE FABRICATION. FINAL INSTALLATION OF EXTERIOR ASSEMBLIES IS INCLUDED IN THE ON SITE SCOPE

ISSUED FOR  
MODULE  
CONSTRUCTION  
MARCH 2022



PROJECT: RAMPART POWER SYSTEM UPGRADE		
TITLE: RADIATOR SUPPORT FABRICATION DETAILS		
DRAWN BY: JTD	SCALE: AS NOTED	
DESIGNED BY: DGT/BCG	DATE: 3/15/22	
FILE NAME: RAM PP S1-S5	SHEET:	S5.4
PROJECT NUMBER:		

