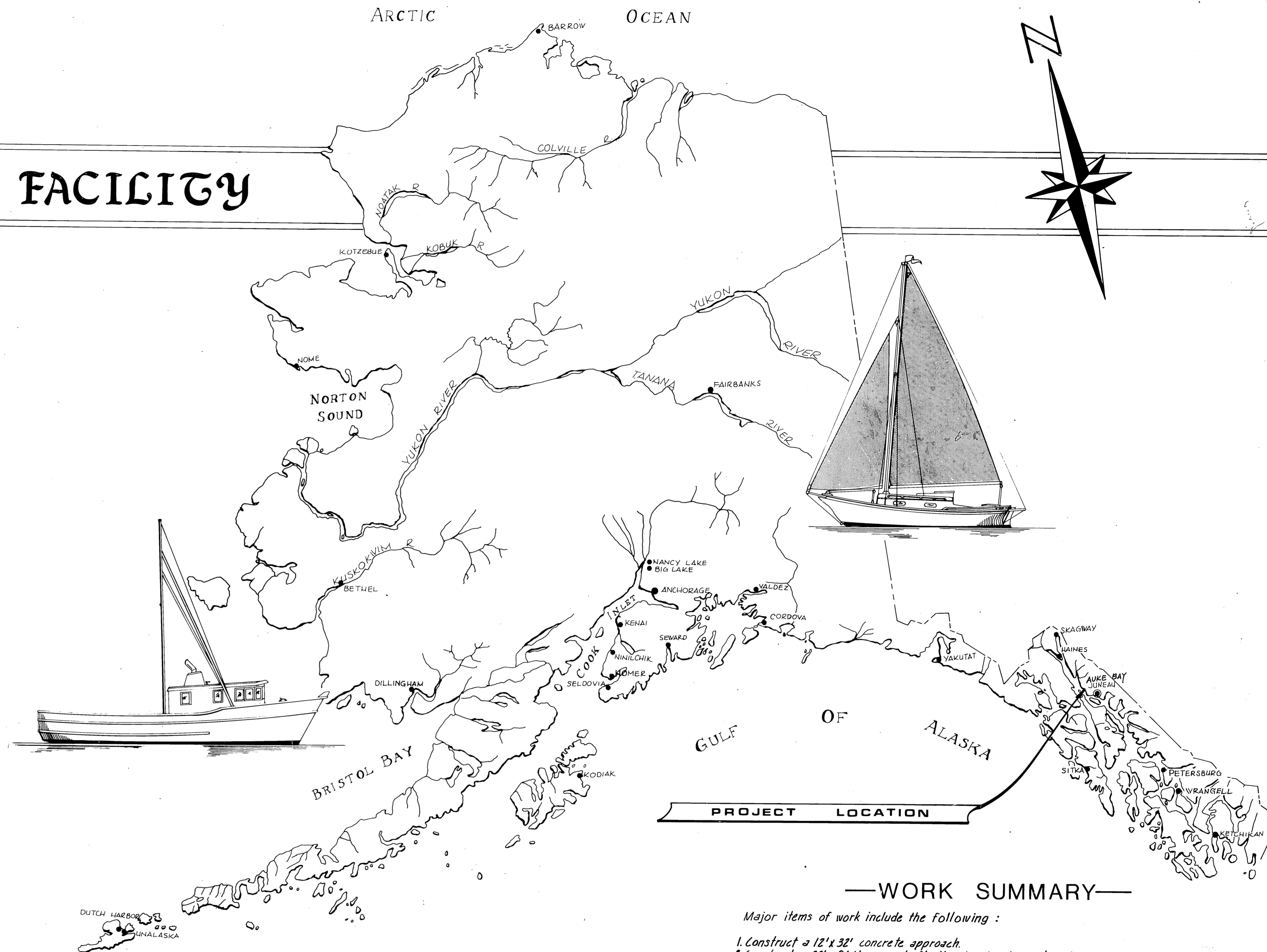


JUNEAU AUIKE BAY TRANSIENT FACILITY

PROJECT NO. K 78180



—WORK SUMMARY—

Major items of work include the following :

1. Construct a 12' x 32' concrete approach.
2. Construct a 23' x 966' concrete floating breakwater and anchor system.
3. Construct 1089 SF heavy duty non post tensioned concrete floats.
4. Construct 44,487 SF heavy duty post tensioned concrete floats and anchor system.
5. Construct a 10' x 96' steel gangway.
6. Remove existing structures.

INDEX TO SHEETS

1. TITLE SHEET	33. CONCRETE ANCHORS & CHAIN SCHEDULE
2. PROJECT LAYOUT	34. CONCRETE APPROACH
3/5. FLOAT LAYOUTS	35-38. 10'-0" x 96'-0" GANGWAY DETAILS
6. MODIFICATIONS to EXISTING FAC.	39. SUMP DETAILS
7. PROFILE of GANGWAY	40. MISCELLANEOUS DETAILS
8/10. TYPICAL FLOAT UNIT DETAILS	41. EXISTING UTILITY DETAILS
11/17. SPECIAL FLOAT UNIT DETAILS	
18. FENDERS & MISC. DETAILS	
19. COVER PLATE DETAILS	
20/21. FLOAT CONNECTION DETAILS	
22/32. FLOATING BREAKWATER DETAILS	

STATE
OF
ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

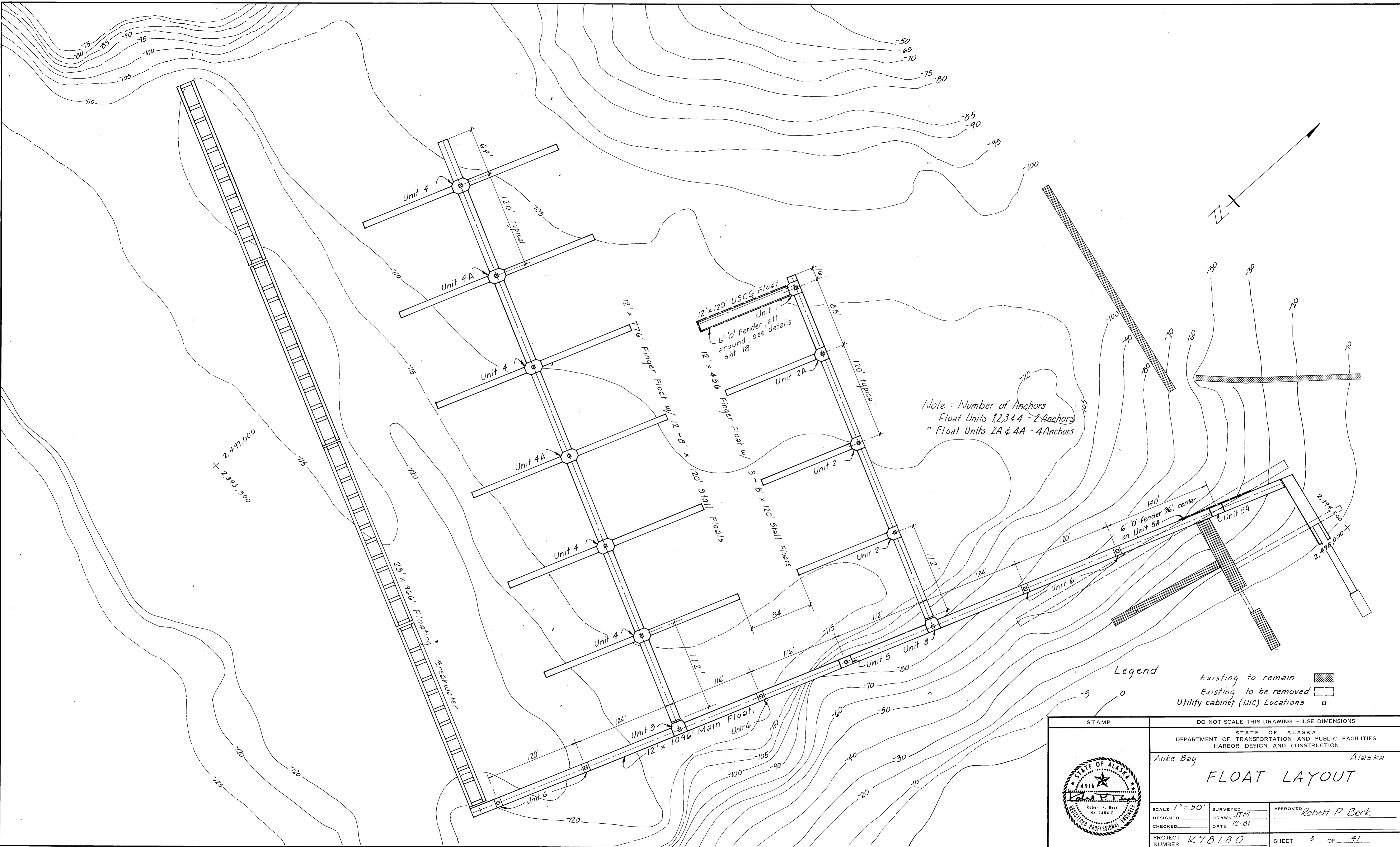
HARBOR DESIGN & CONSTRUCTION

APPROVED

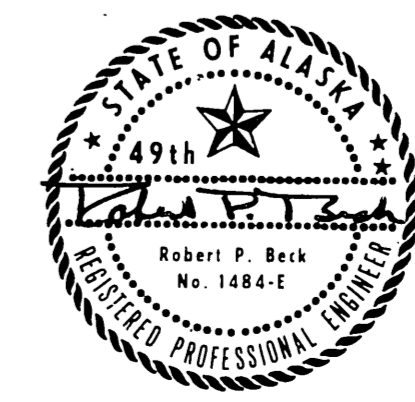
Charles S. [Signature]

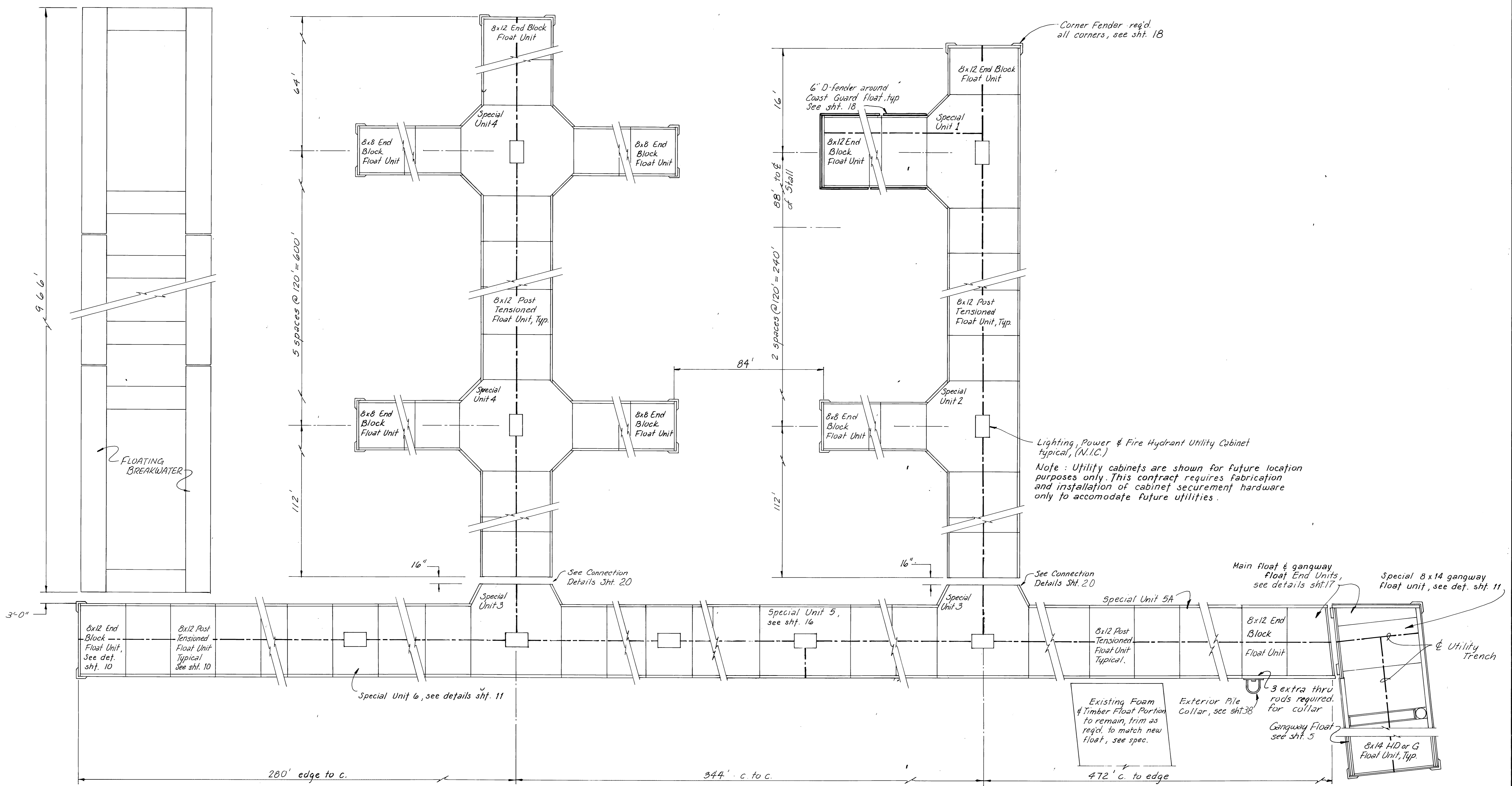
DATE 1-11-82

SHEET 1 OF 41



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
<h1>FLOAT LAYOUT</h1>			
SCALE 1" = 50'	SURVEYED	APPROVED <i>Robert P. Beck</i>	
DESIGNED	DRAWN <i>JTM</i>		
CHECKED	DATE <i>12-81</i>		
PROJECT NUMBER <i>K78180</i>	SHEET <i>3</i> OF <i>41</i>		





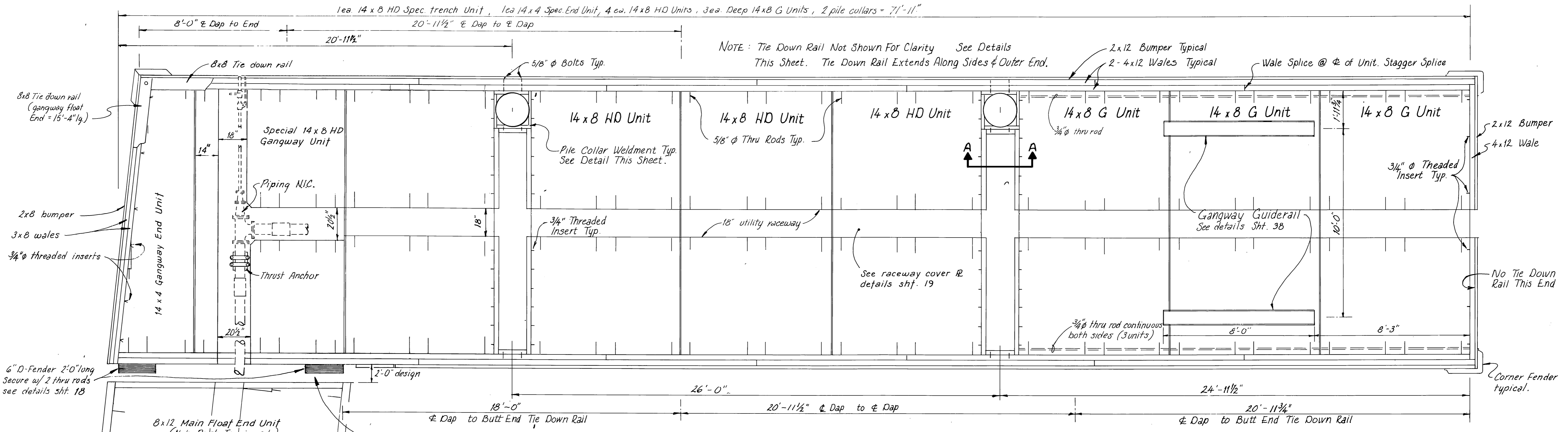
Lighting, Power & Fire Hydrant Utility Cabinet typical, (N.I.C.)
 Note: Utility cabinets are shown for future location purposes only. This contract requires fabrication and installation of cabinet securement hardware only to accommodate future utilities.

Existing Foam & Timber Float Portion to remain, trim as req'd. to match new float, see spec.
 Exterior Pile Collar, see sht. 38
 3 extra thru rods required for collar
 Gangway Float see sht. 5
 8x14 HD or G Float Unit, Typ.

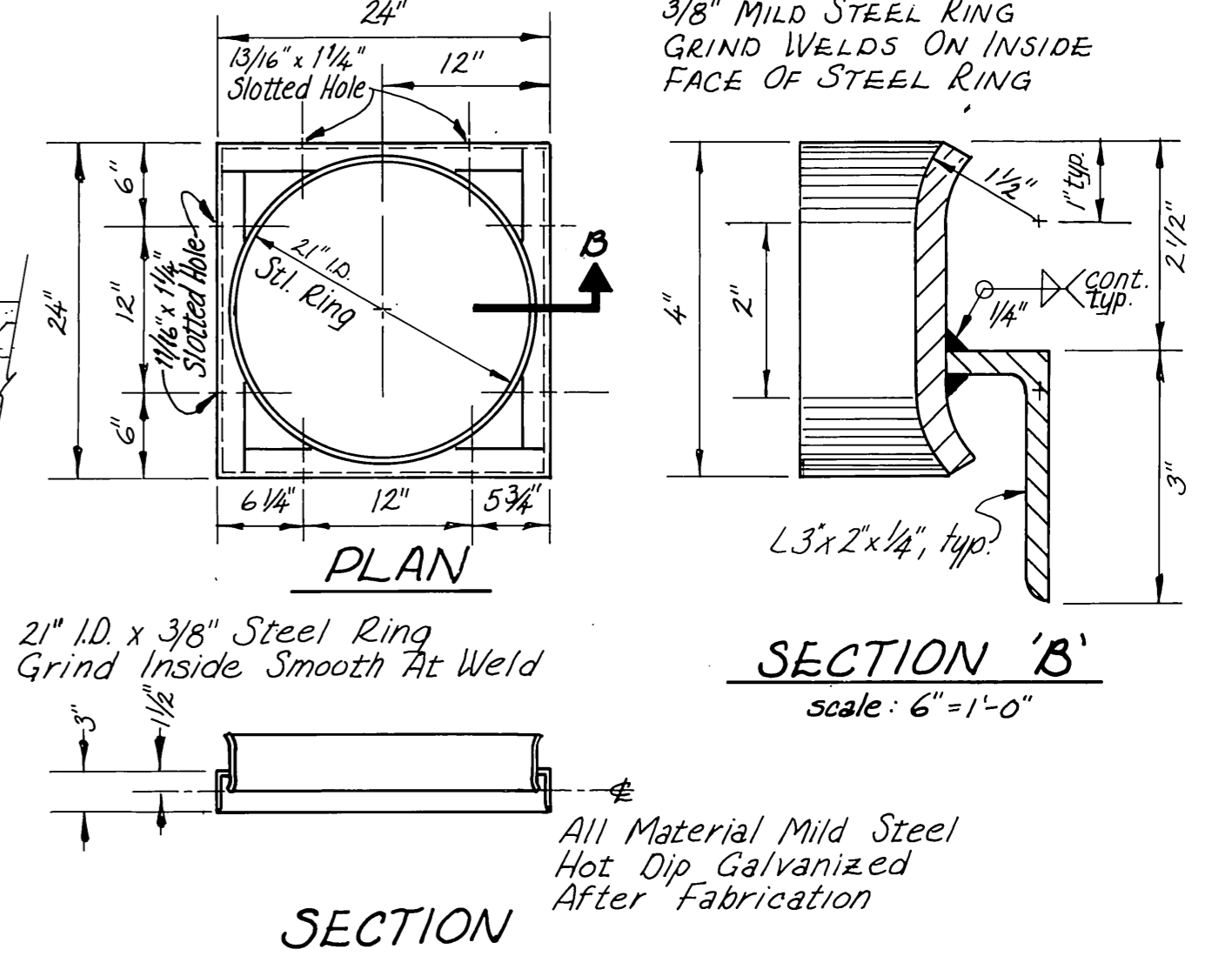
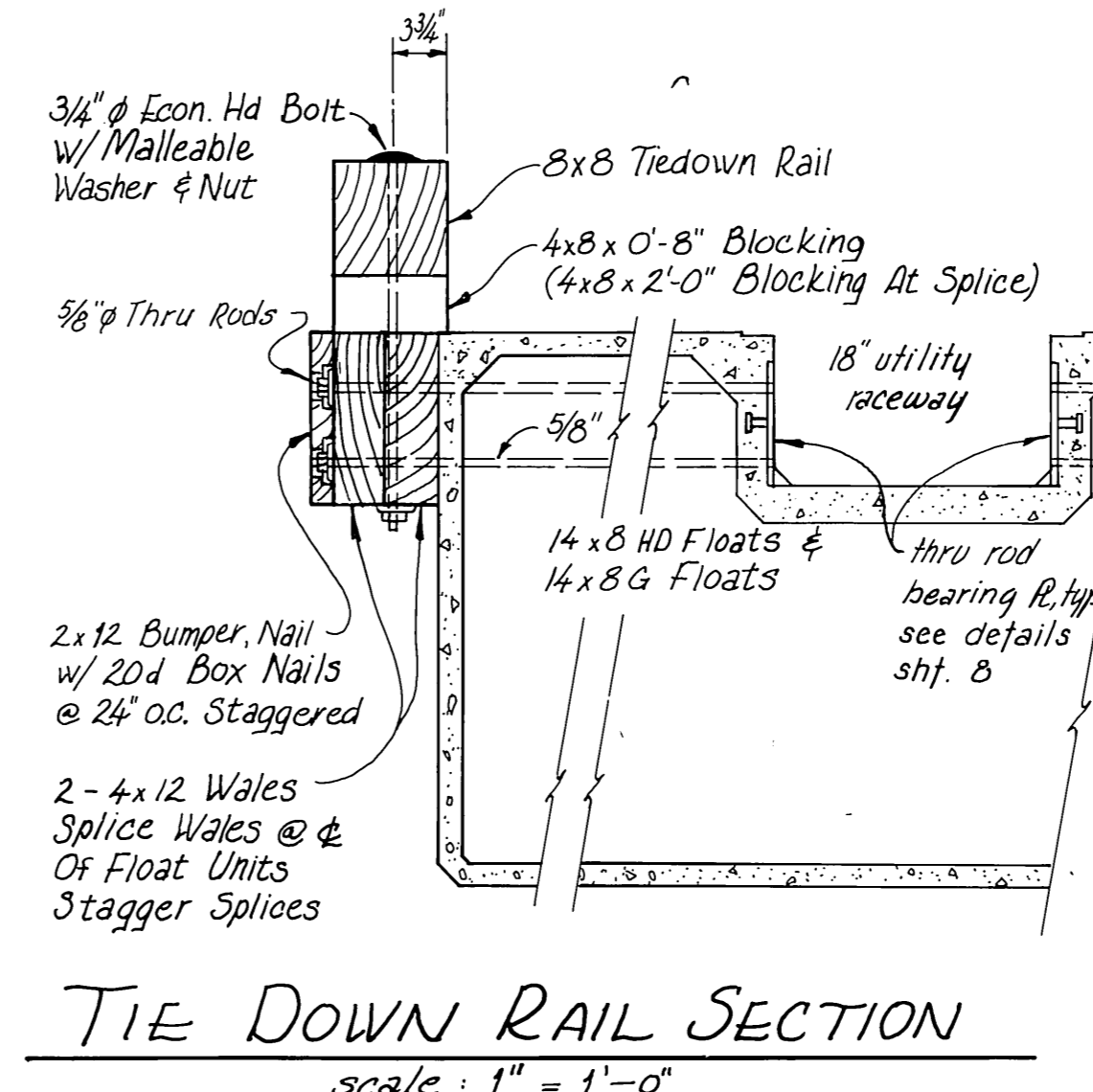
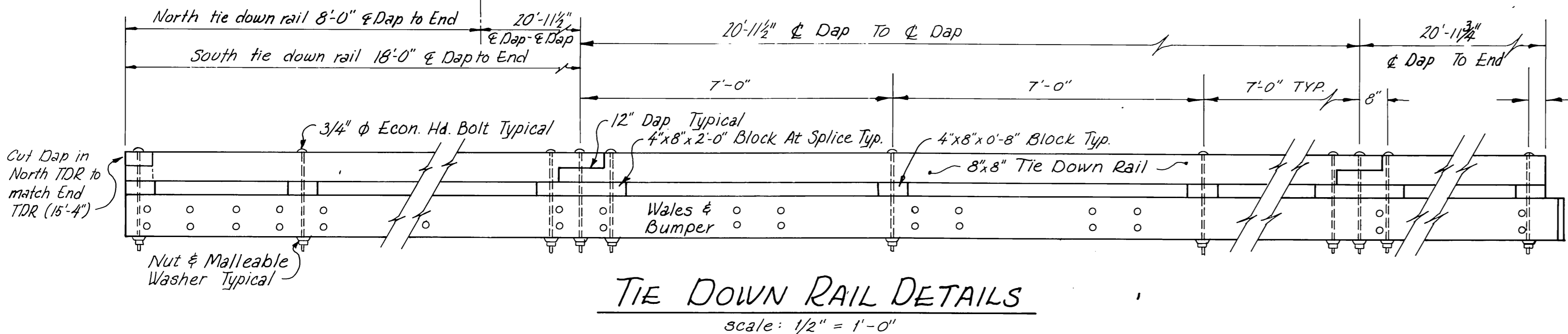
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
FLOAT UNIT LAYOUT			
SCALE 1/8" = 1'-0"	SURVEYED _____	APPROVED <u>Robert P. Beck</u>	
DESIGNED _____	DRAWN <u>DB/WLN</u>		
CHECKED _____	DATE <u>Nov. 81</u>		
PROJECT NUMBER _____	SHEET 4 OF 41		



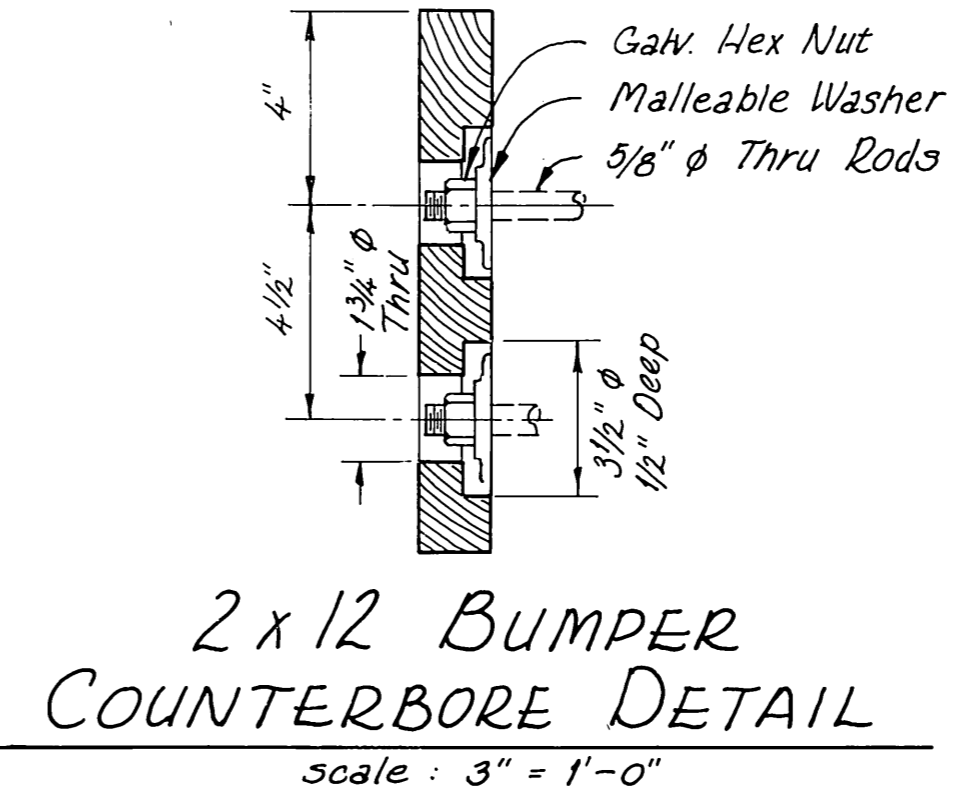
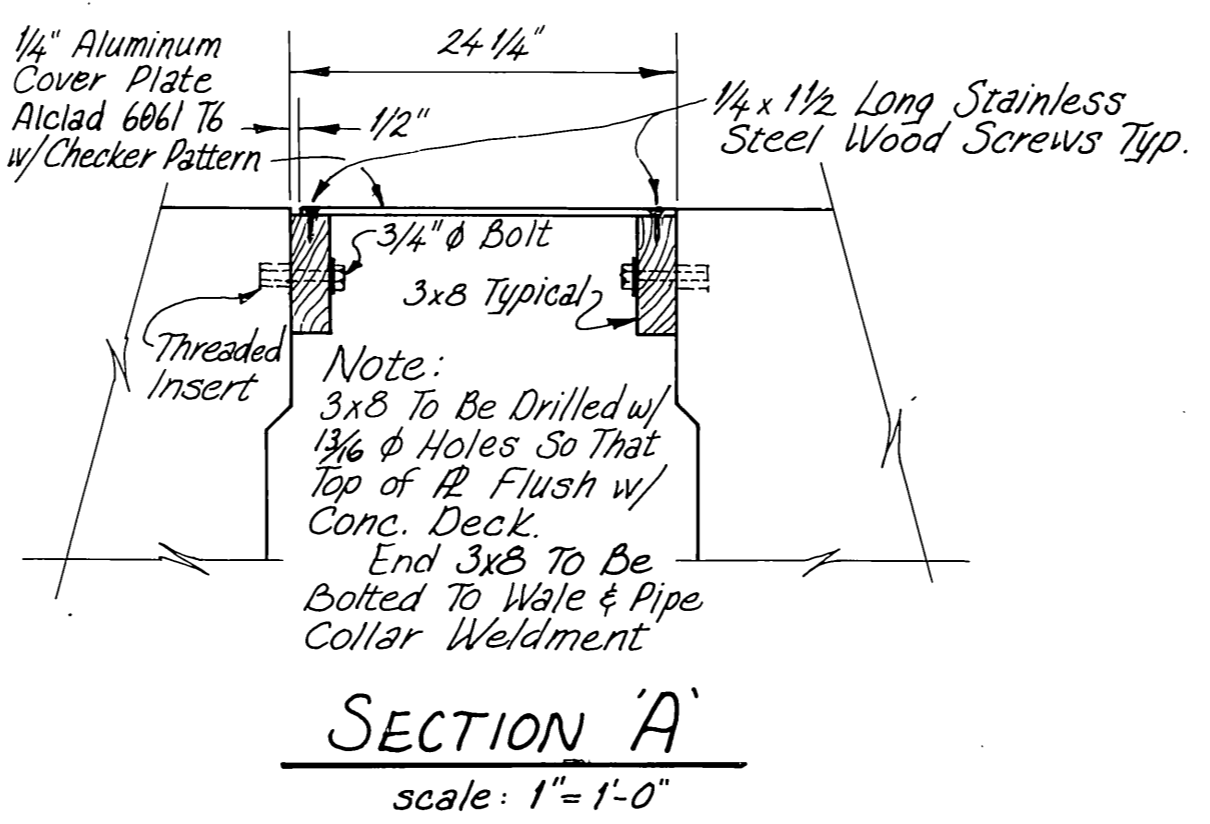
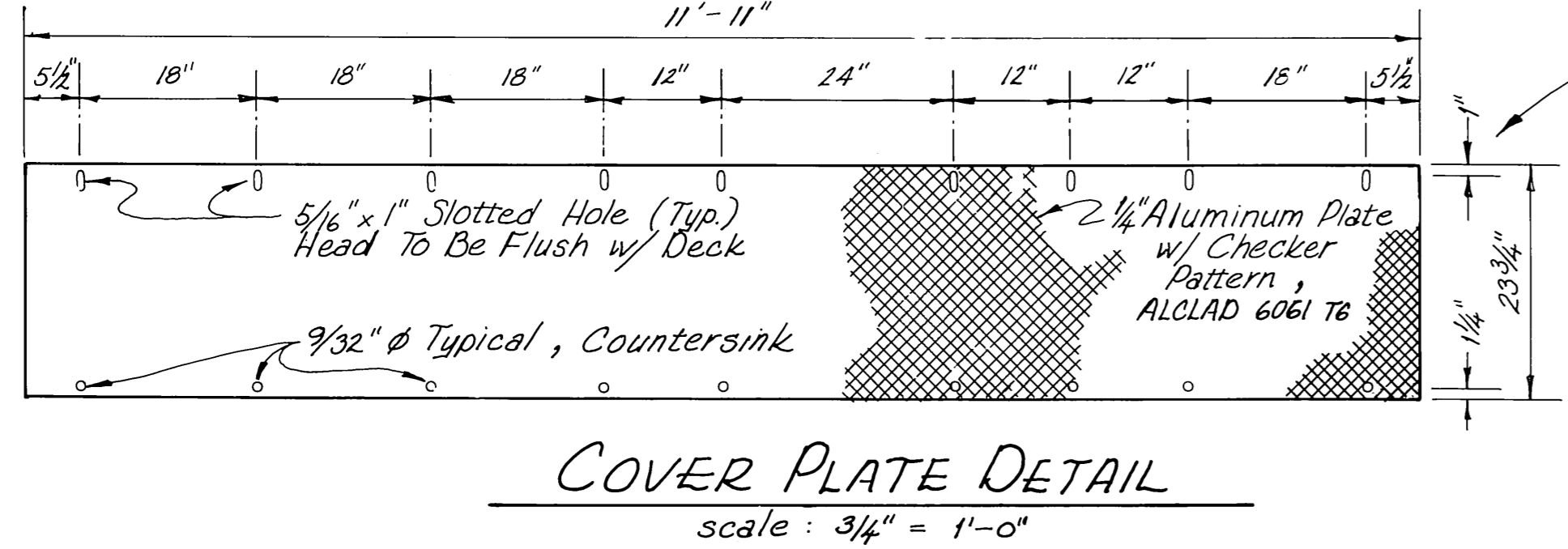
CALL TO NORTH



GANGWAY FLOAT LAYOUT
scale: 3/8" = 1'-0"

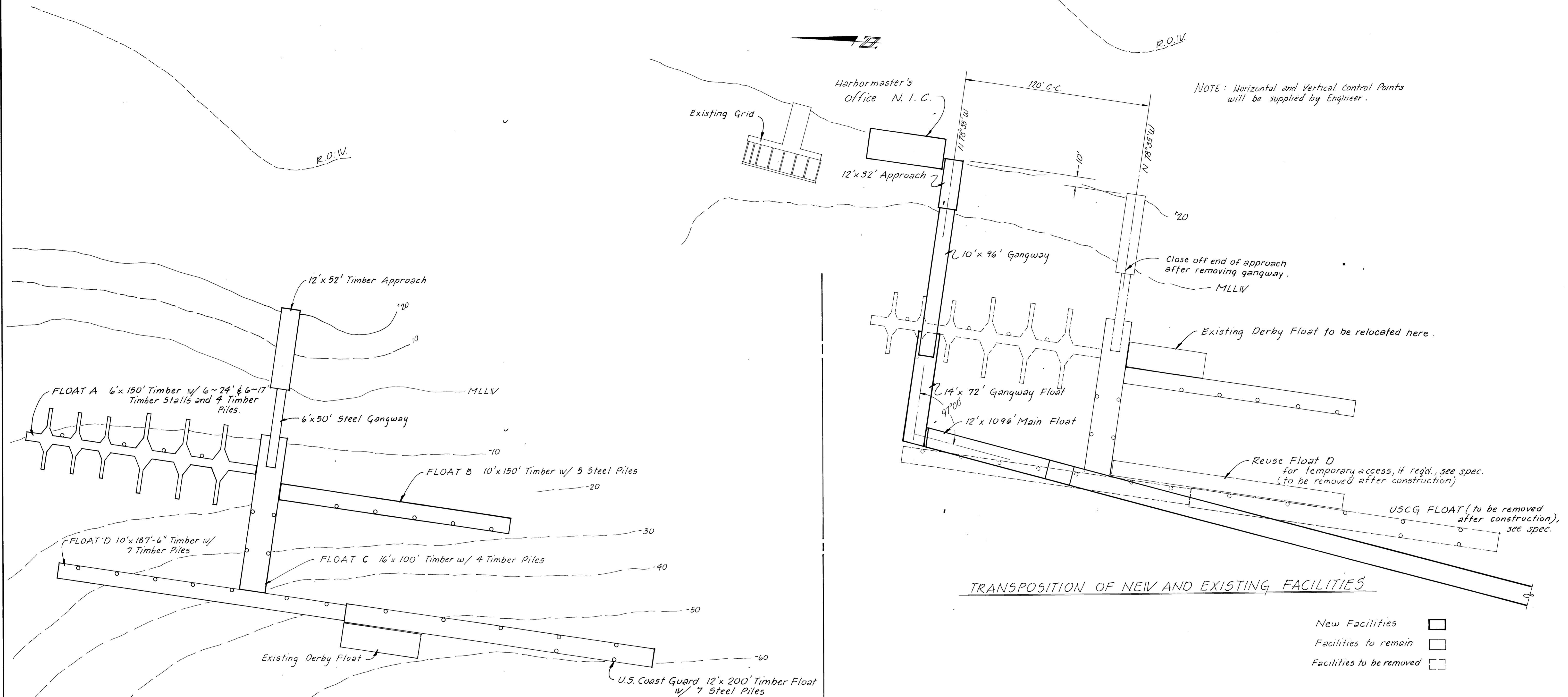


PILE COLLAR WELDMENT DETAILS
scale: 1" = 1'-0"



Note: All timber S4S except as noted.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		ALUKE BAY ALASKA 14'x72' GANGWAY FLOAT	
SCALE: AS SHOWN	SURVEYED: W.M.N.	APPROVED: ROBERT P. BECK CHIEF OF DESIGN	
DESIGNED: J.O.B.	DATE: JUNE 1981		
PROJECT NUMBER: K 78180	SHEET: 5 OF 41		

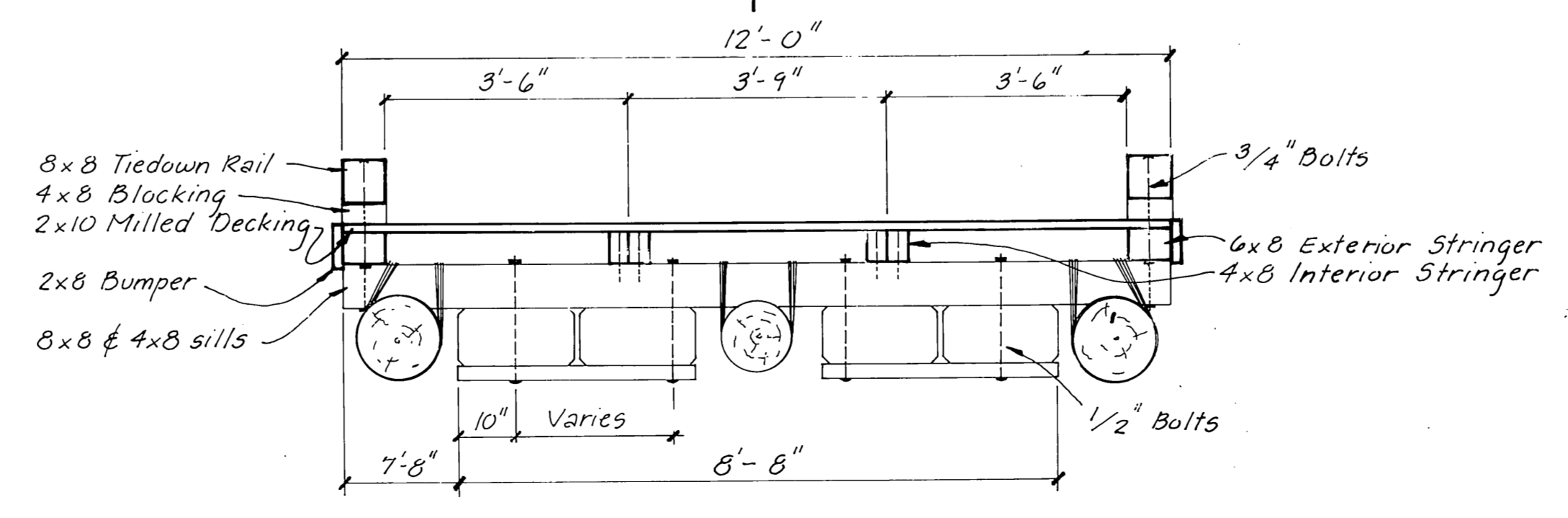
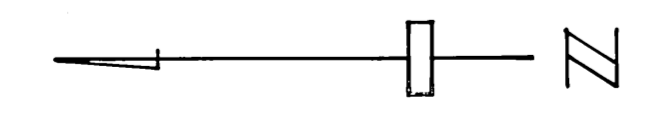


NOTE: Horizontal and Vertical Control Points will be supplied by Engineer.

EXISTING FACILITIES

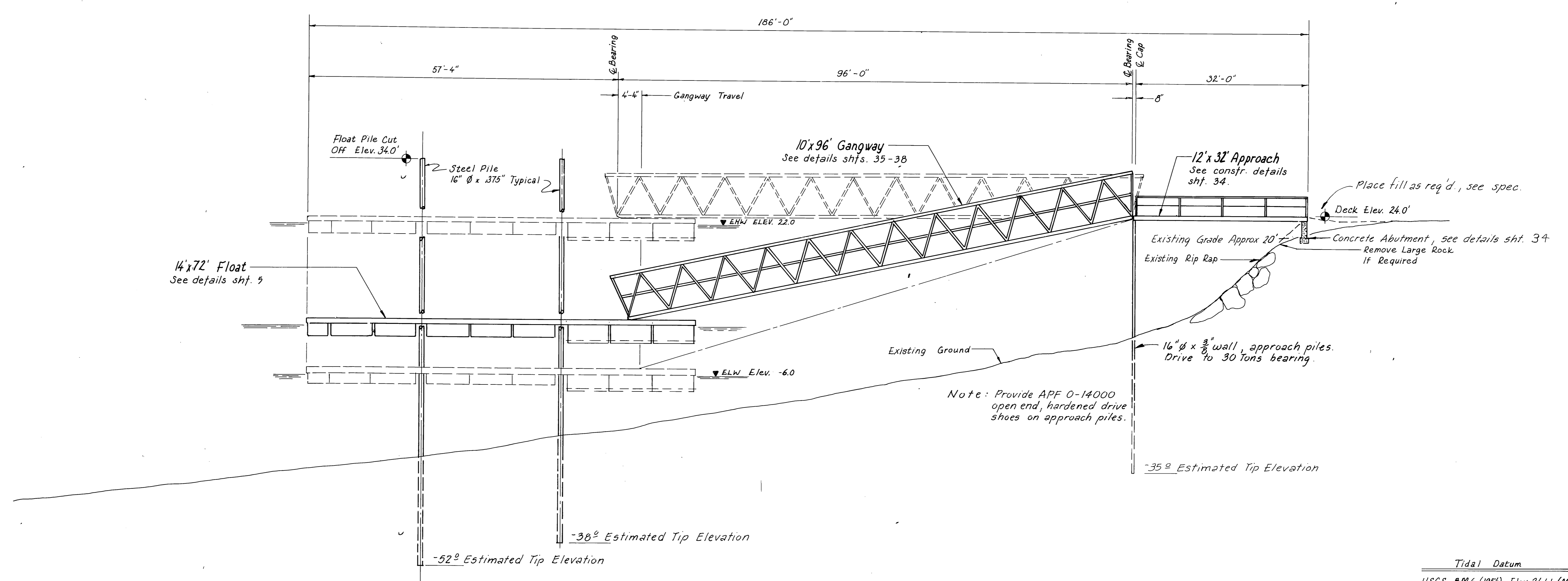
TRANSPPOSITION OF NEW AND EXISTING FACILITIES

- New Facilities
- Facilities to remain
- Facilities to be removed



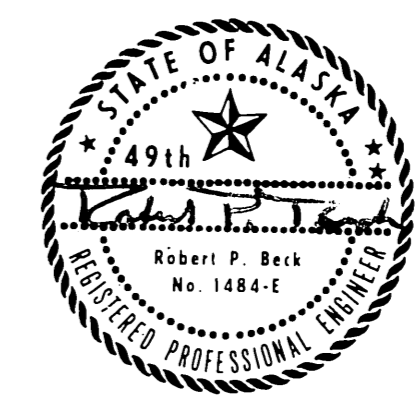
12' SECTION: EXISTING USCG FLOAT
1/2" = 1'-0"

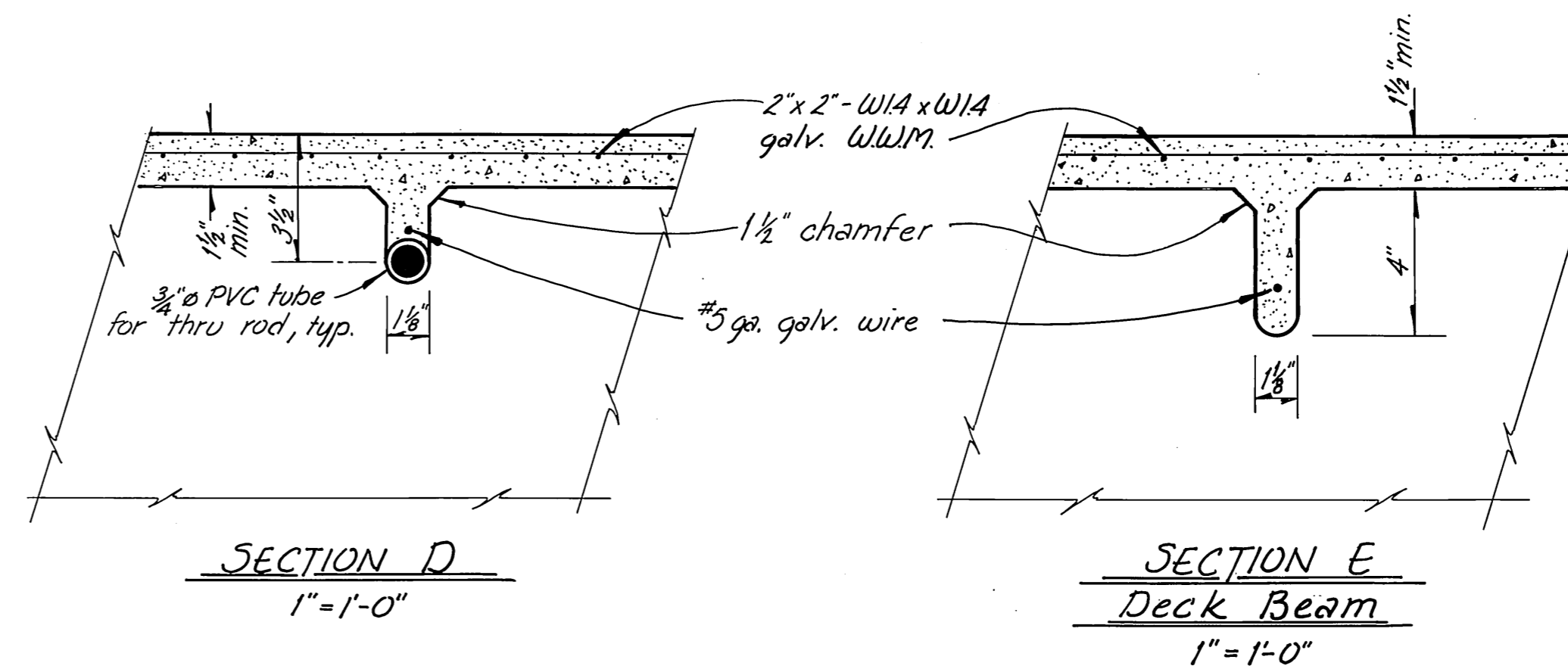
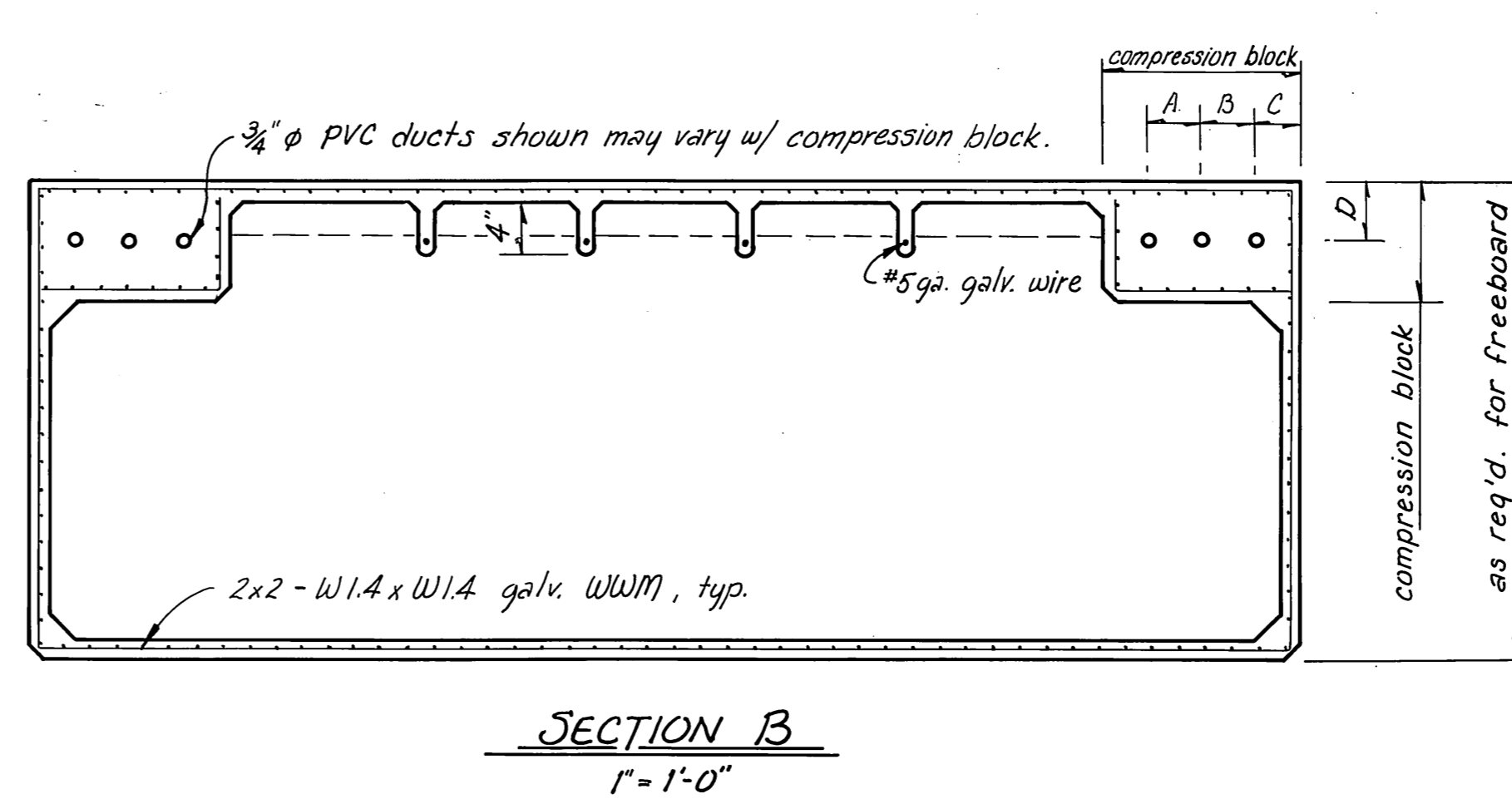
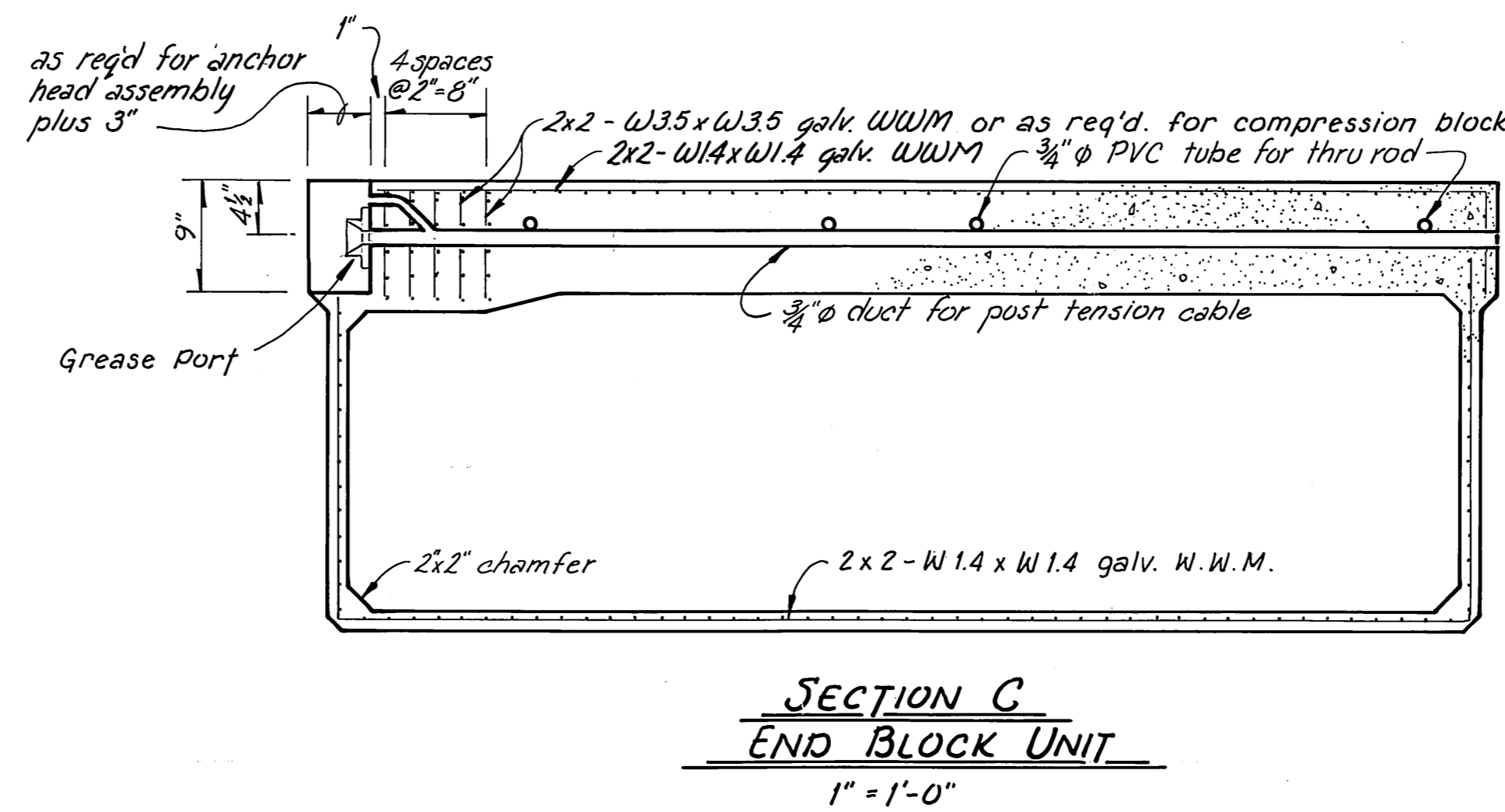
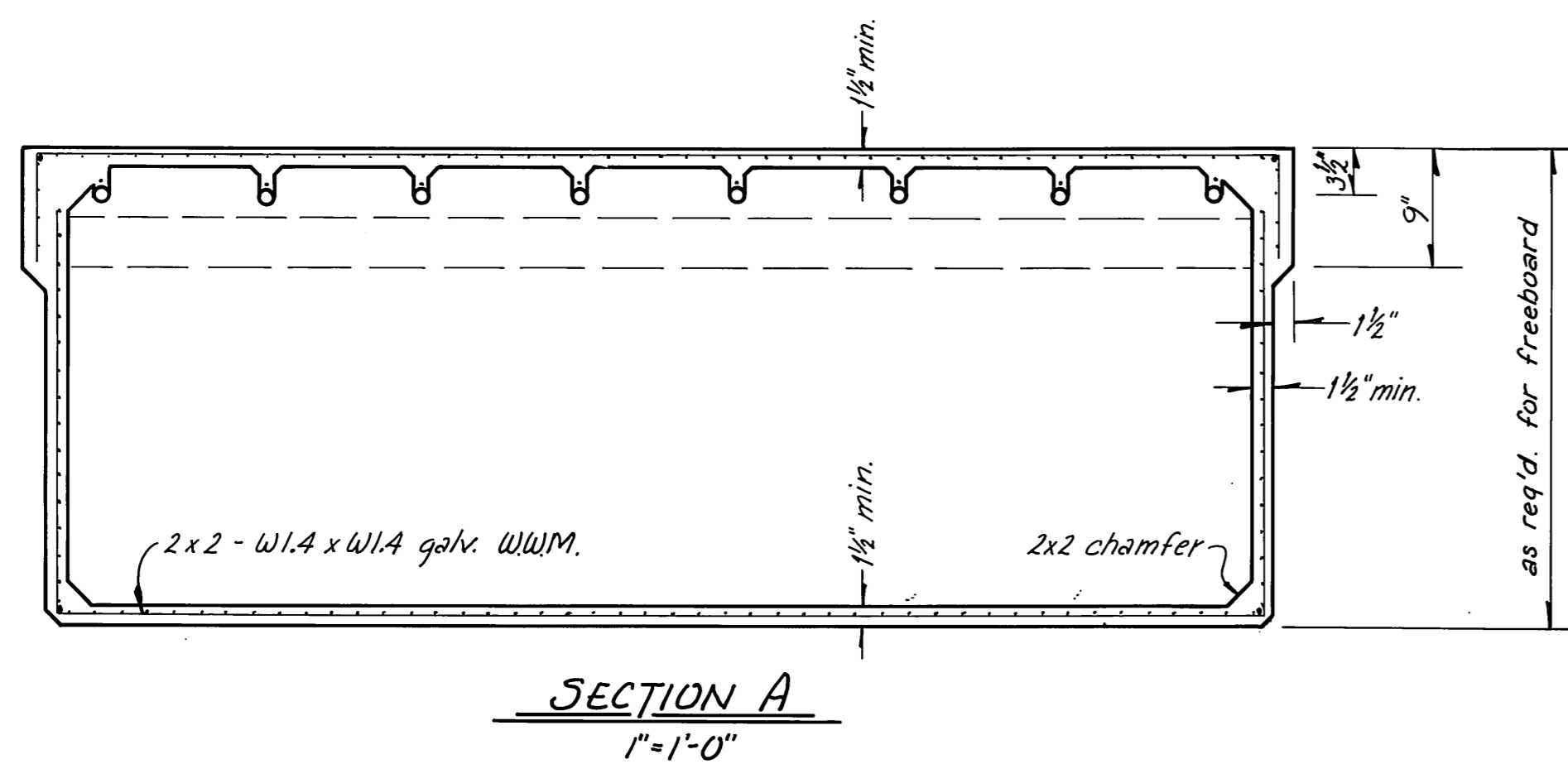
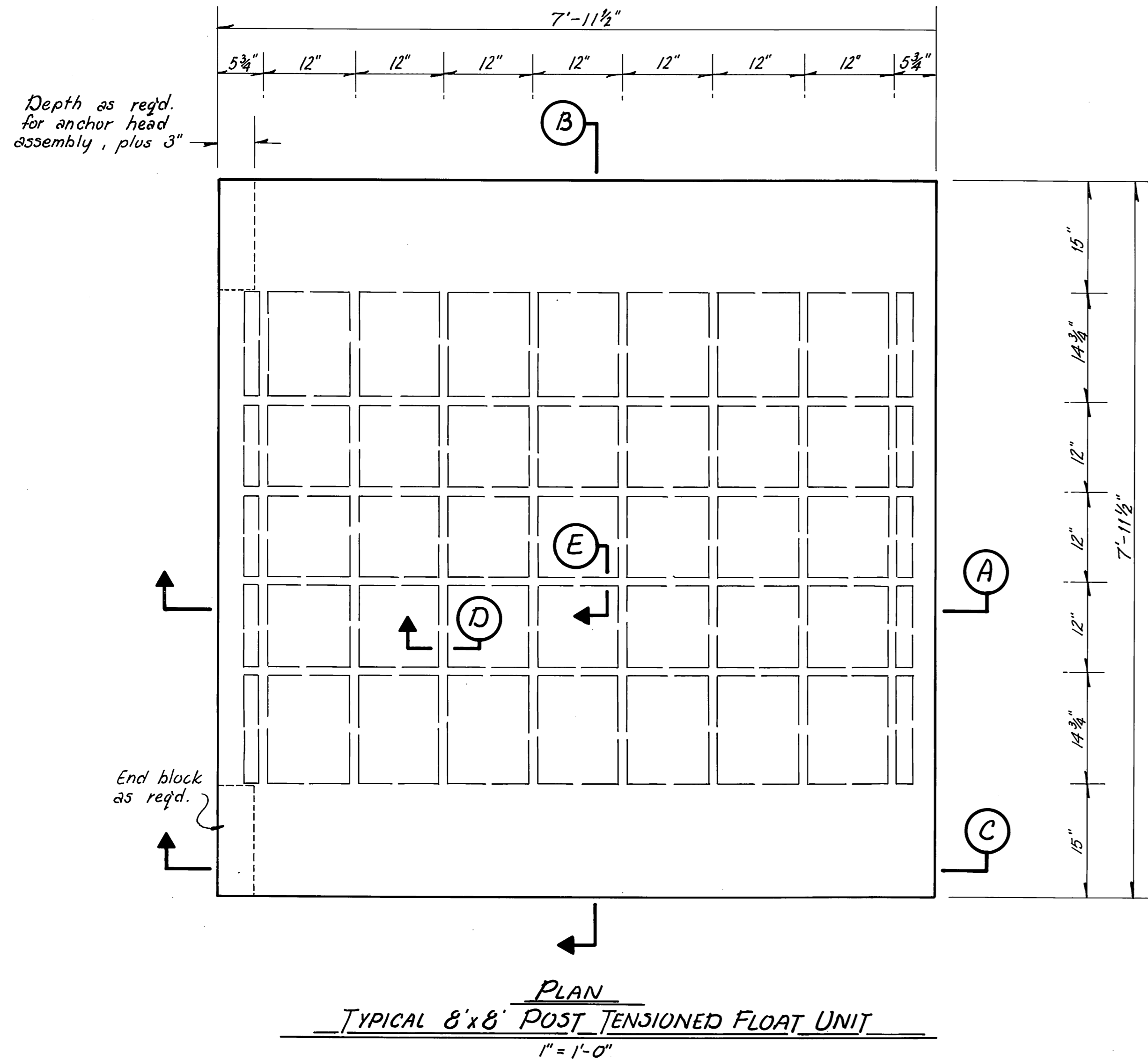
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
Auke Bay Alaska		
MODIFICATIONS TO EXISTING FACILITIES		
SCALE 1" = 30'	SURVEYED _____	APPROVED Robert P. Beck
DESIGNED _____	DRAWN JTM	
CHECKED _____	DATE 11-81	
PROJECT NUMBER _____	SHEET 6 OF 41	



Tidal Datum

U.S.G.S. BM 6 (1954) Elev. 24.41 (MLLW+0.0)	
Local Ref: Tide board DeHarris Marina Dock	
Estimated Extreme High Water	22.0
Mean Higher High Water	15.85
Mean High Water	14.85
Half Tide Level	8.20
Mean Low Water	1.55
Mean Lower Low Water	0.00
Estimated Extreme Low Water	-6.0

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
PROFILE AT GANGWAY		SCALE: 1"=100'	SURVEYED: WmN
DESIGNED: H.R.M.	DRAWN: WmN	CHECKED: R.P.B.	DATE: 6-12-81
PROJECT NUMBER: K 78180		APPROVED: Robert P. Beck CHIEF OF DESIGN	
SHEET 7 OF 41			



NOTE: Compression block dimensions to meet design loadings, see spec. Location of post tension cable ducts (A,B,C&D) per manufacturer's suggestion.

Notes :

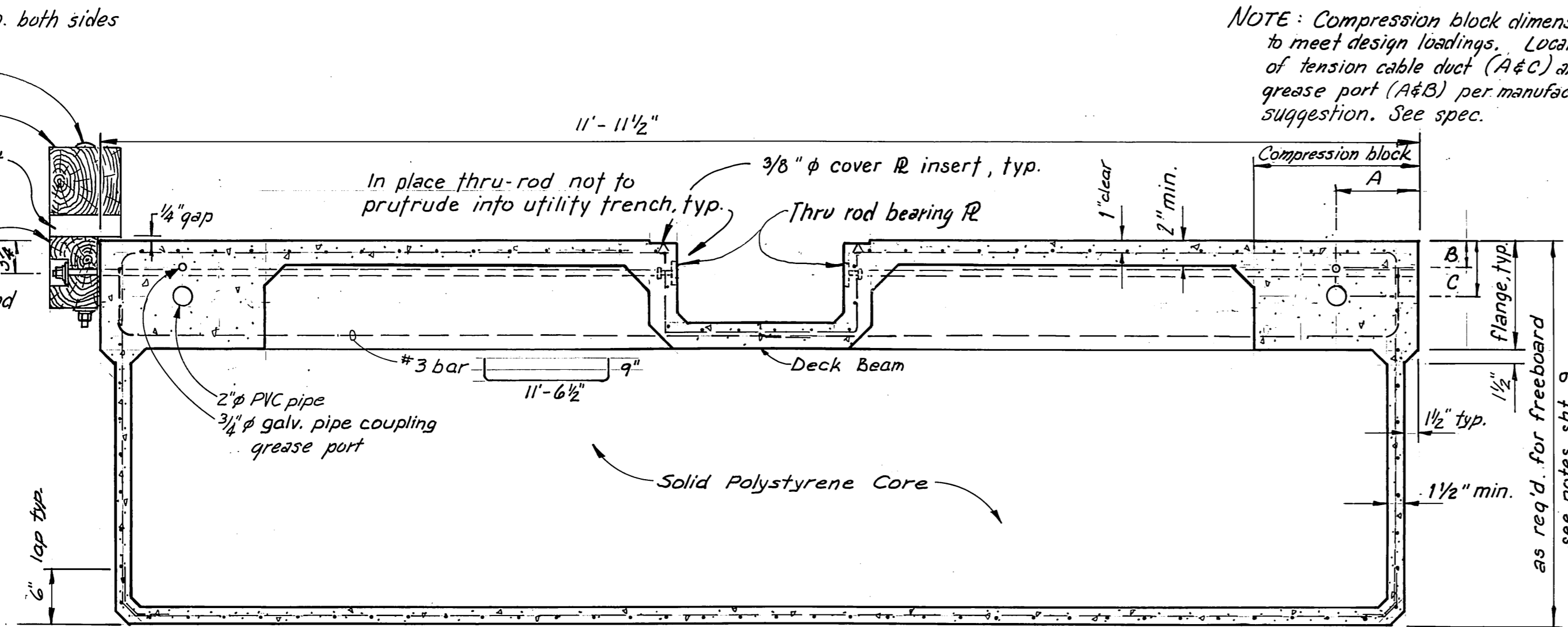
1. Alternate deck sections may be used, provided they have a section modulus equivalent or greater than the deck system shown.
2. Fabricator to install intermediate grease port access and vent reliefs as req'd. to facilitate injection of lubricant around tensioning strands.
3. End block knockouts to be grouted flush with end of float after completion of tensioning.
4. Design freeboard = 16" ± 1"
5. Pontoon supplier to provide float unit w/req'd. freeboard. Allow 100 lbs. per linear foot for wales, bumpers & utilities.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
TYPICAL 8x8 POST-TENSIONED FLOAT UNIT			
SCALE: <i>As Shown</i>	SURVEYED: <i>JDB/WJN</i>	APPROVED: <i>Robert P. Beck</i>	
DESIGNED: <i>JDB</i>	DRAWN: <i>JDB/WJN</i>		
CHECKED:	DATE: <i>11/81</i>		
PROJECT NUMBER: <i>K 78180</i>	SHEET <i>09</i> OF <i>41</i>		

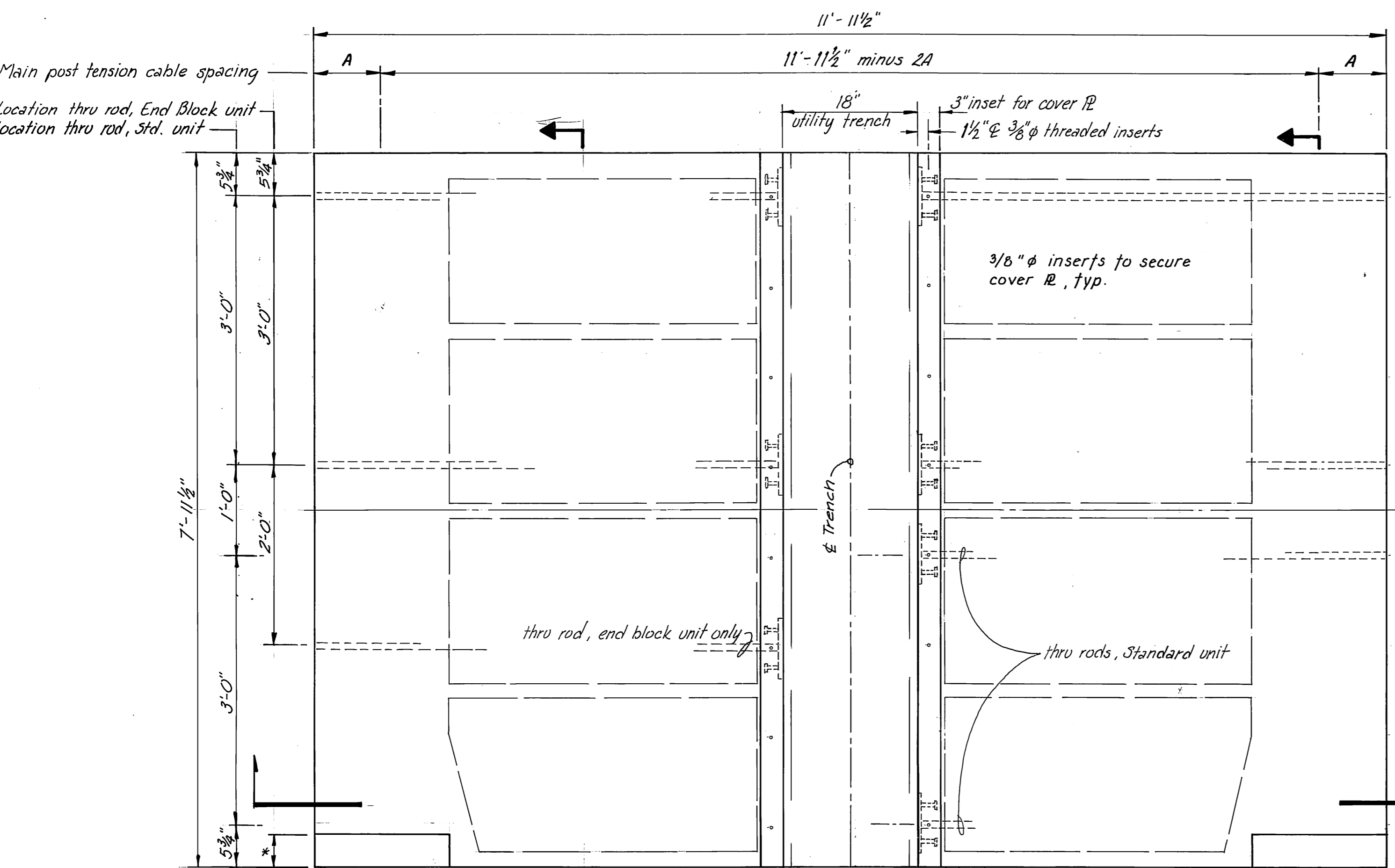
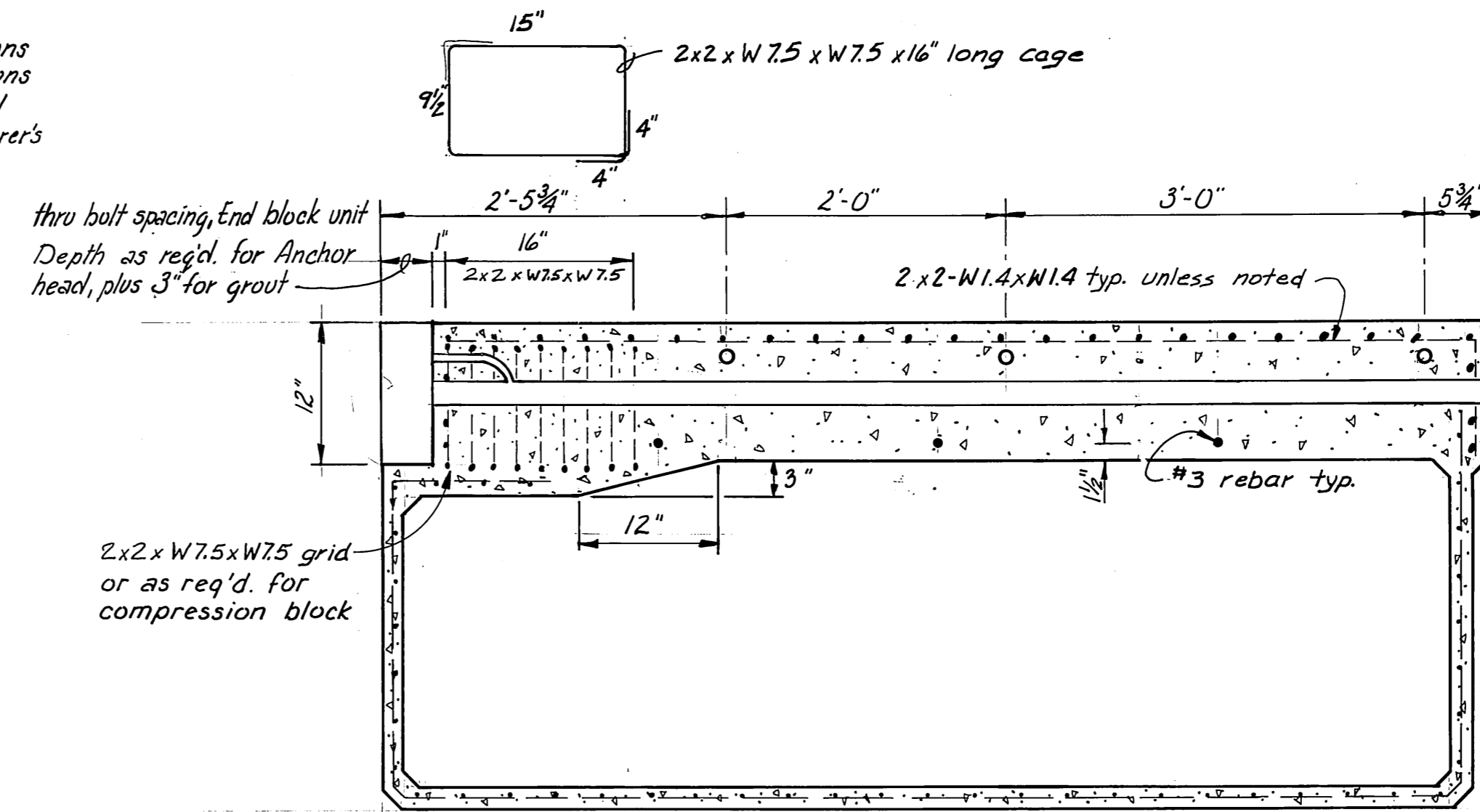


Tie down rail & wale typ. both sides

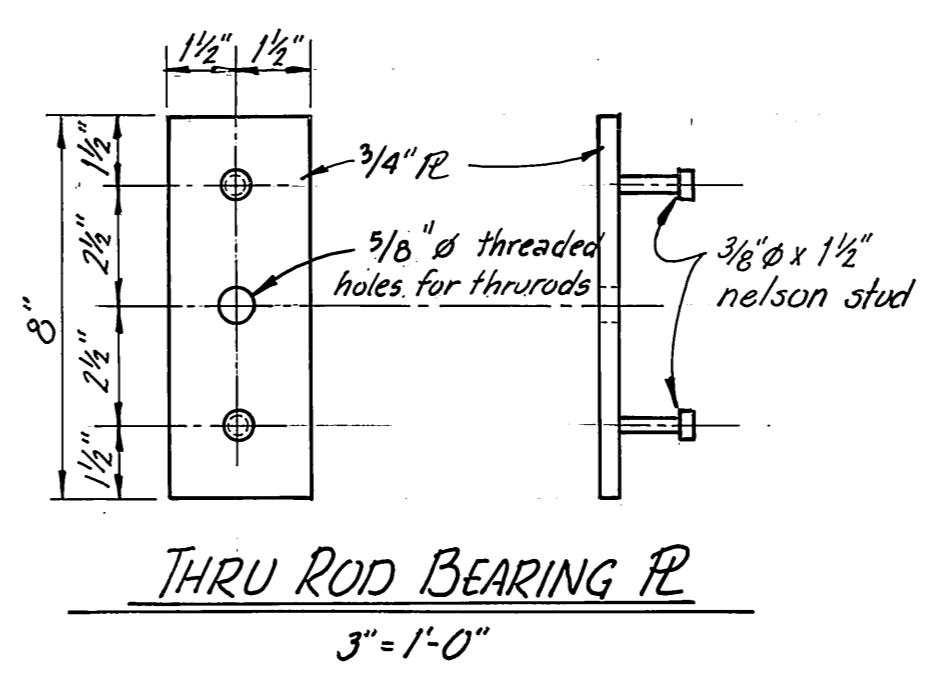
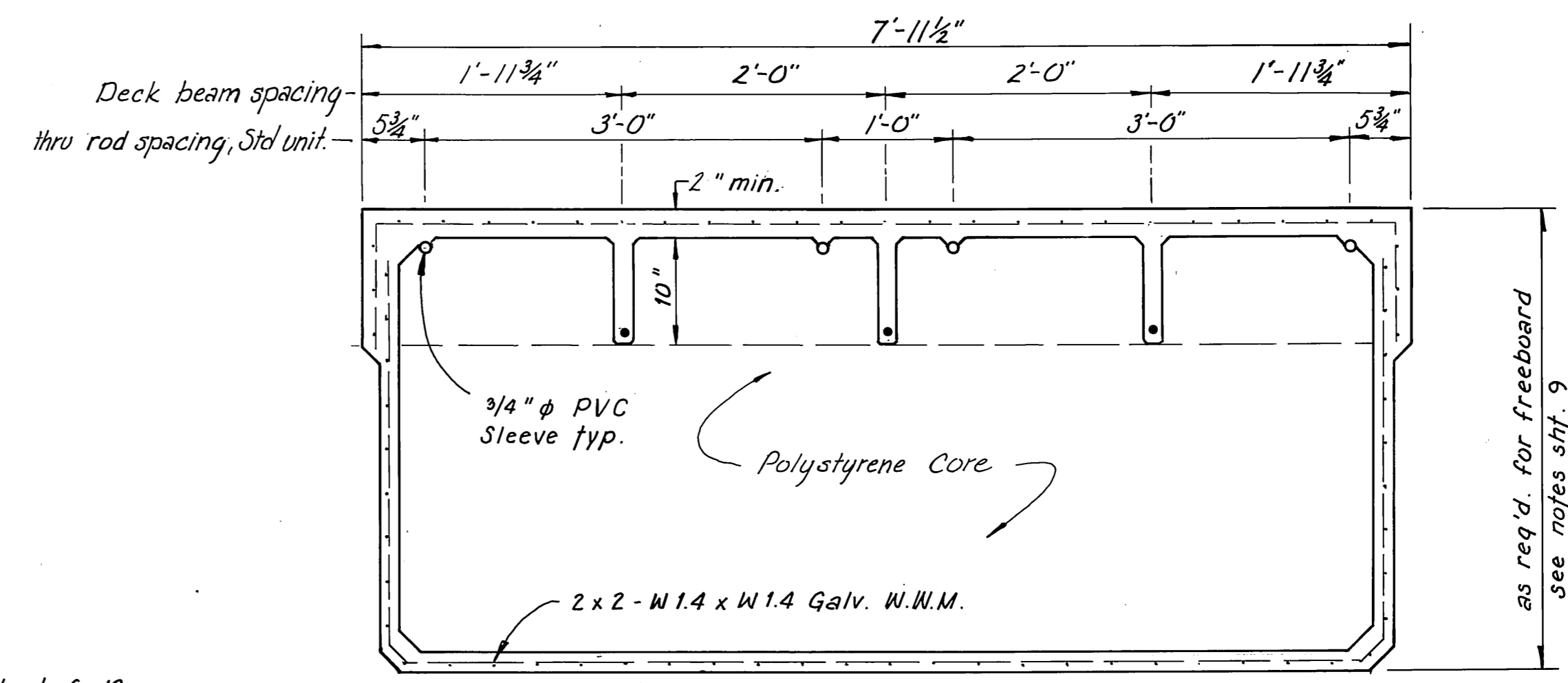
- 3/4" ϕ econ. hd. bolt
- 8"x8" tie down rail
- 4"x8"x1'-0" blocking @ bolt
- 6x8 wale w/ 3" ϕ C-bore for thru rod, nut & M1 washer



NOTE: Compression block dimensions to meet design loadings. Locations of tension cable duct (A&C) and grease port (A&B) per manufacturer's suggestion. See spec.

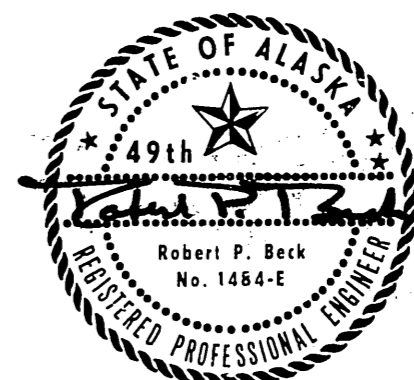


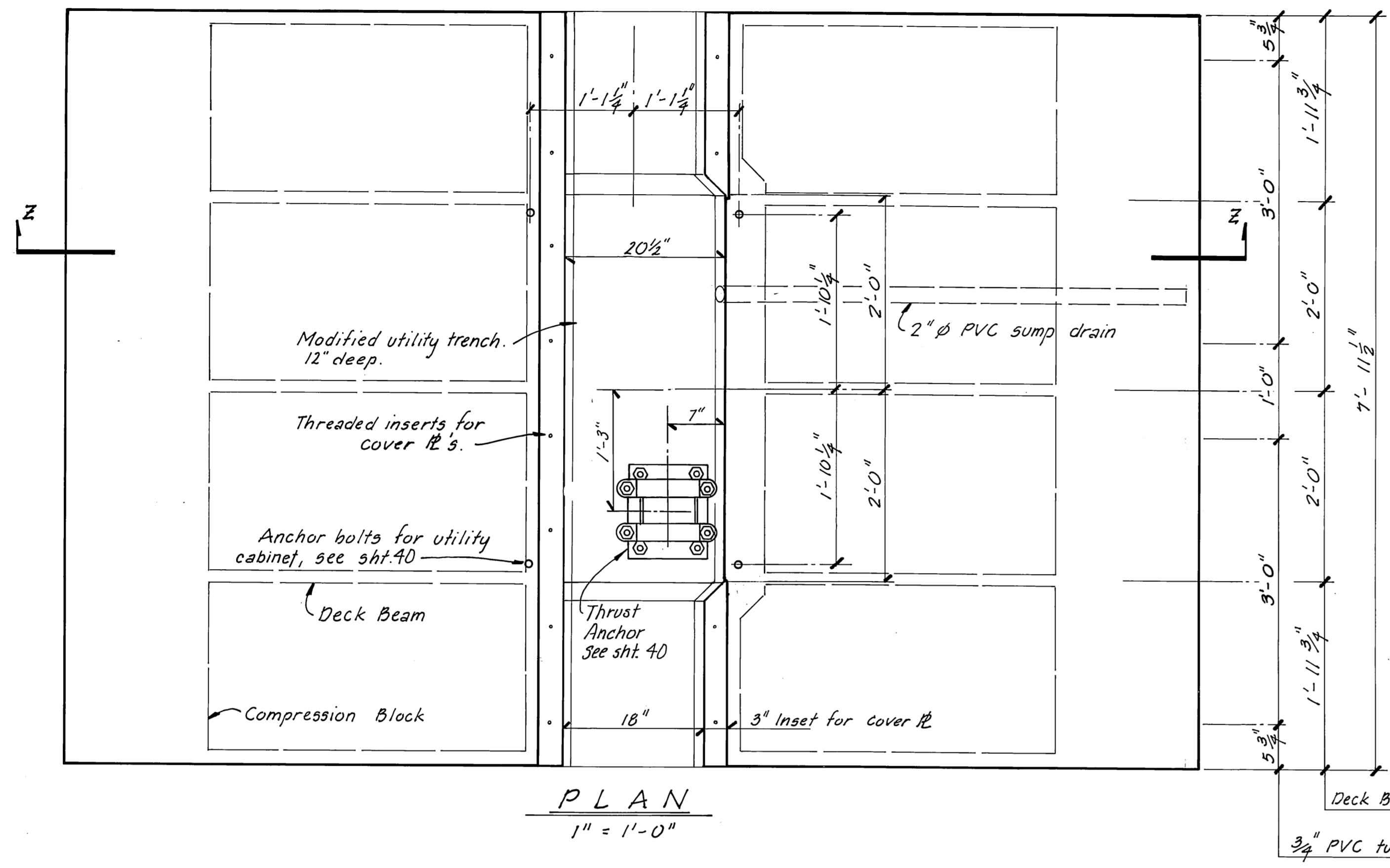
NOTE: Standard 8x12 Post Tensioned Float Unit will not have End Block & shall be symmetrical about E



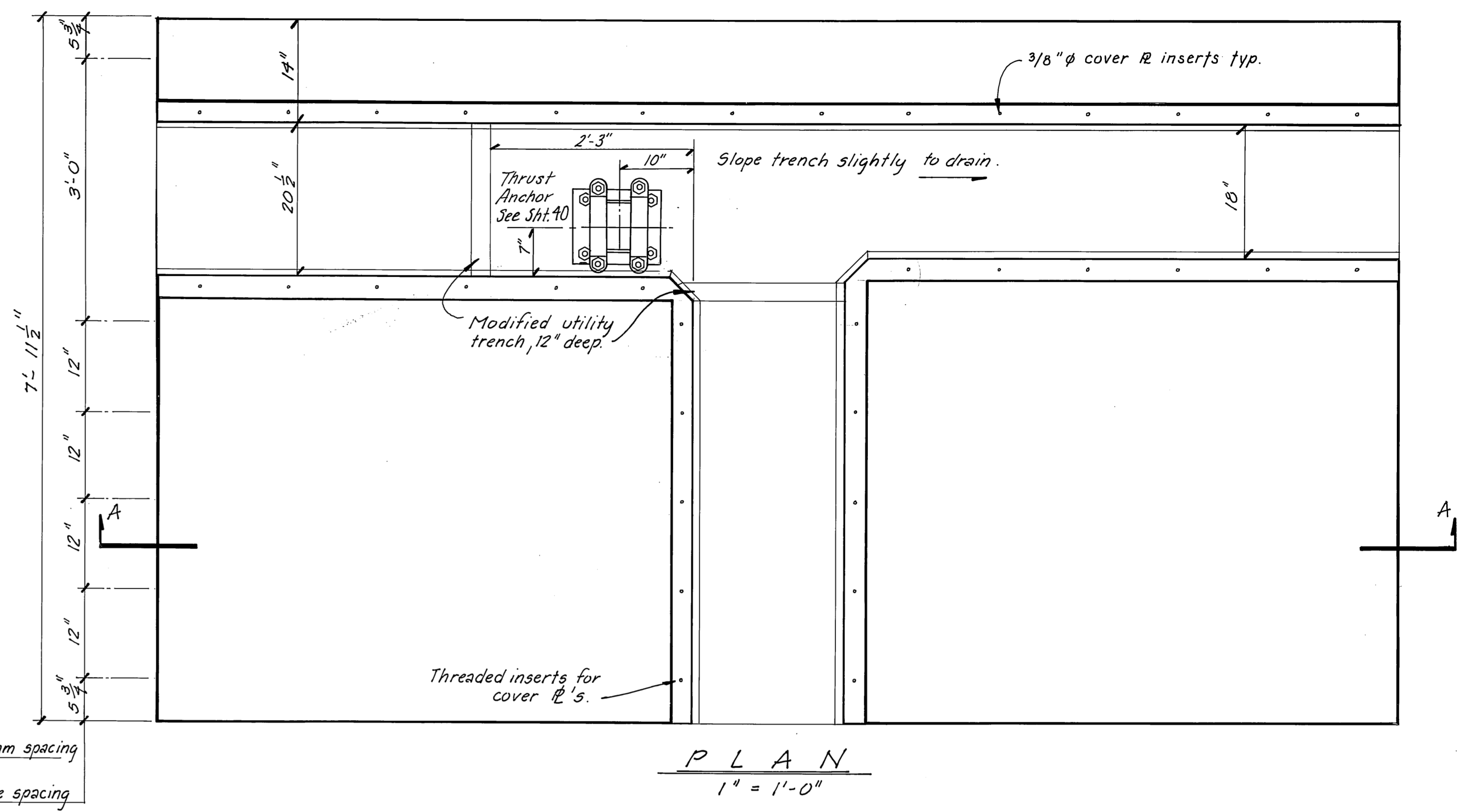
- Notes:
- End block knockouts to be grouted flush with end of float after completion of tensioning.
 - Size and location of utility trench is different for the Coast Guard float.
 - Alternate deck sections may be used, provided they have a section modulus equivalent or greater than the deck system shown.
 - Fabricator to install intermediate grease port access and vent reliefs as required to facilitate injection of lubricant around tensioning strands.

*As req'd for Anchor Head unit plus 3" for grout cover

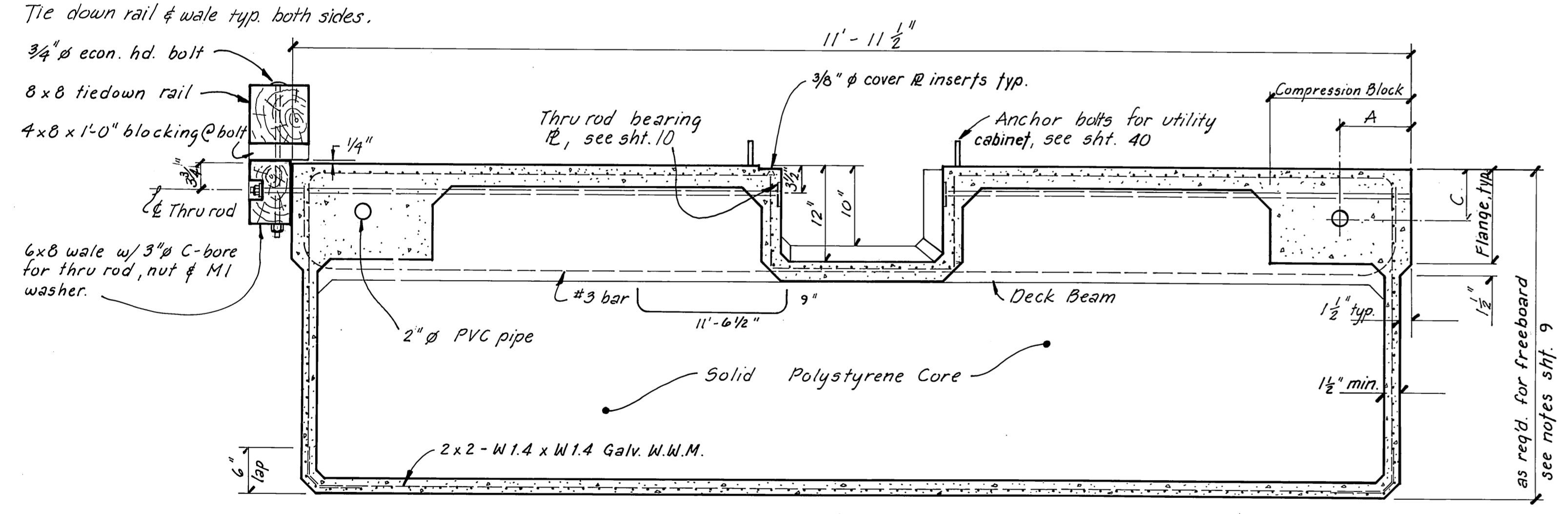
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
TYPICAL 8x12 POST TENSIONED FLOAT UNIT			
SCALE: <i>As Shown</i>	SURVEYED:	APPROVED:	
DESIGNED: <i>JOB</i>	DRAWN: <i>RJT/WV</i>	 Robert P. Beck CHIEF OF DESIGN	
CHECKED:	DATE: <i>11/81</i>		
PROJECT NUMBER: <i>K 78180</i>	SHEET <i>10</i> OF <i>41</i>		



PLAN
1" = 1'-0"

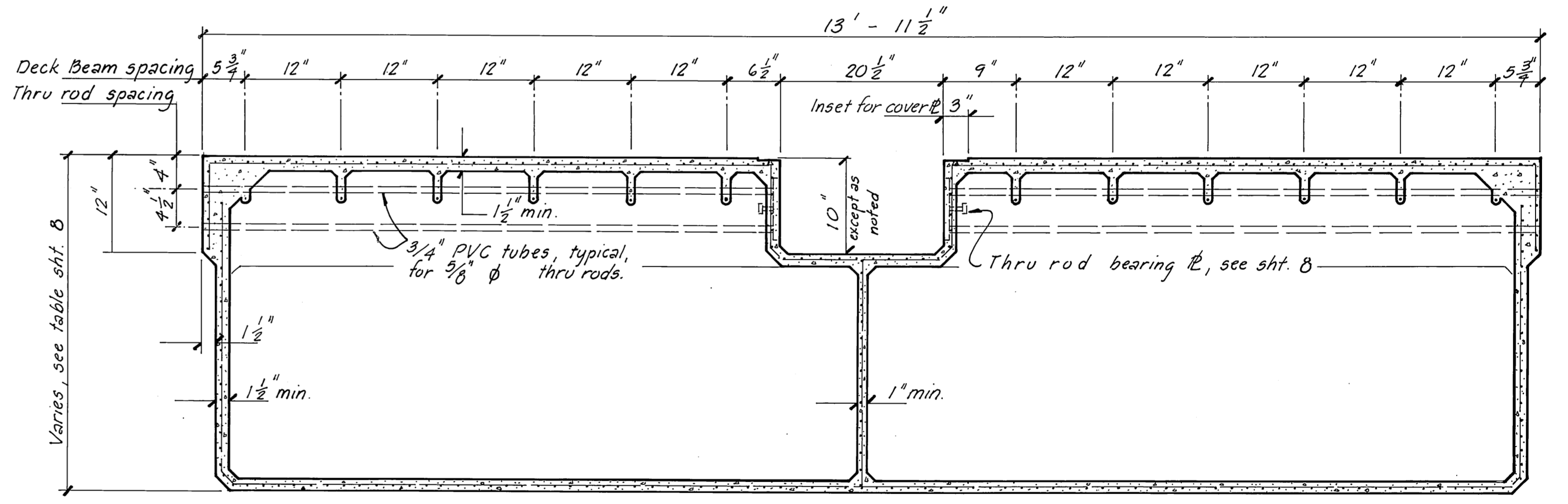


PLAN
1" = 1'-0"



SECTION Z-Z
1" = 1'-0"

SPECIAL 8'x12' FLOAT UNIT 6*



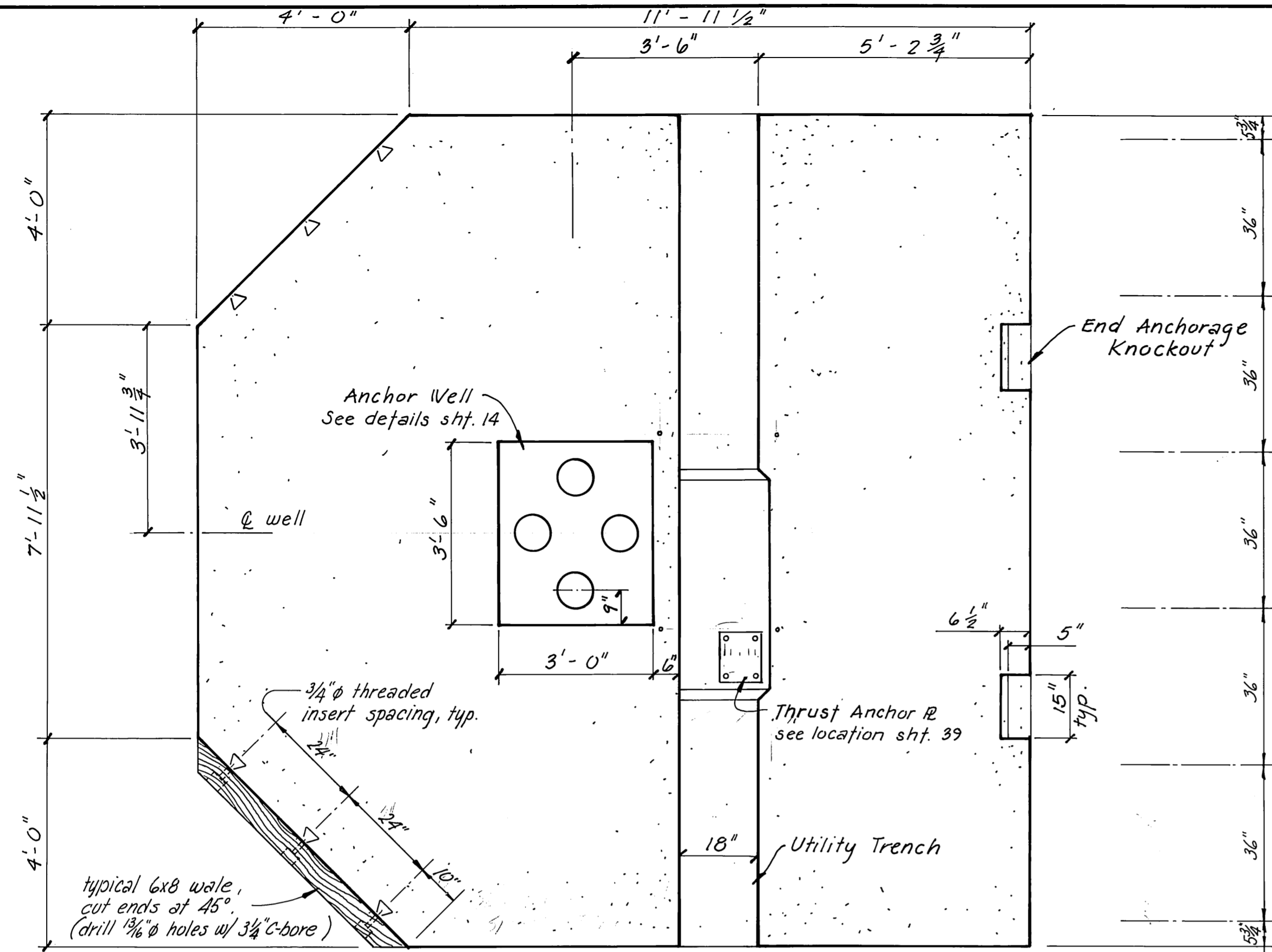
SECTION A-A
1" = 1'-0"

SPECIAL 8'x14' GANGWAY FLOAT UNIT *

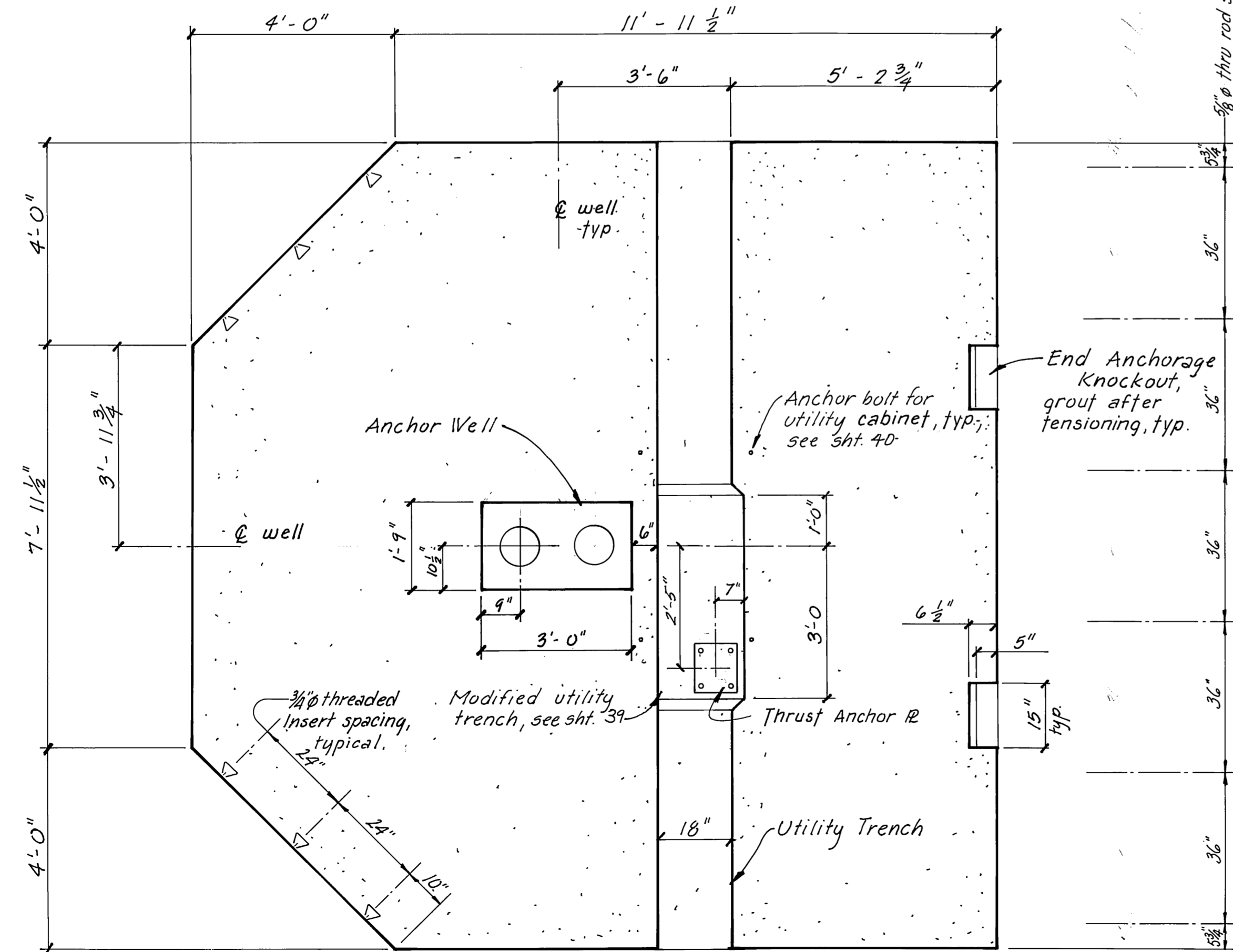
Note: Compression block dimensions to meet design loadings. Locations of tension cable duct (A & C), per manufacturer's suggestion. See specs.

* See Float Unit Layout for locations.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska SPECIAL UNIT 6 & GANGWAY UNIT	
SCALE: As Noted	SURVEYED: _____	APPROVED: <u>Robert P. Beck</u>	
DESIGNED: _____	DRAWN: <u>JTM</u>		
CHECKED: <u>JDB</u>	DATE: <u>12-81</u>		
PROJECT NUMBER: <u>K 78180</u>	SHEET <u>11</u> OF <u>41</u>		



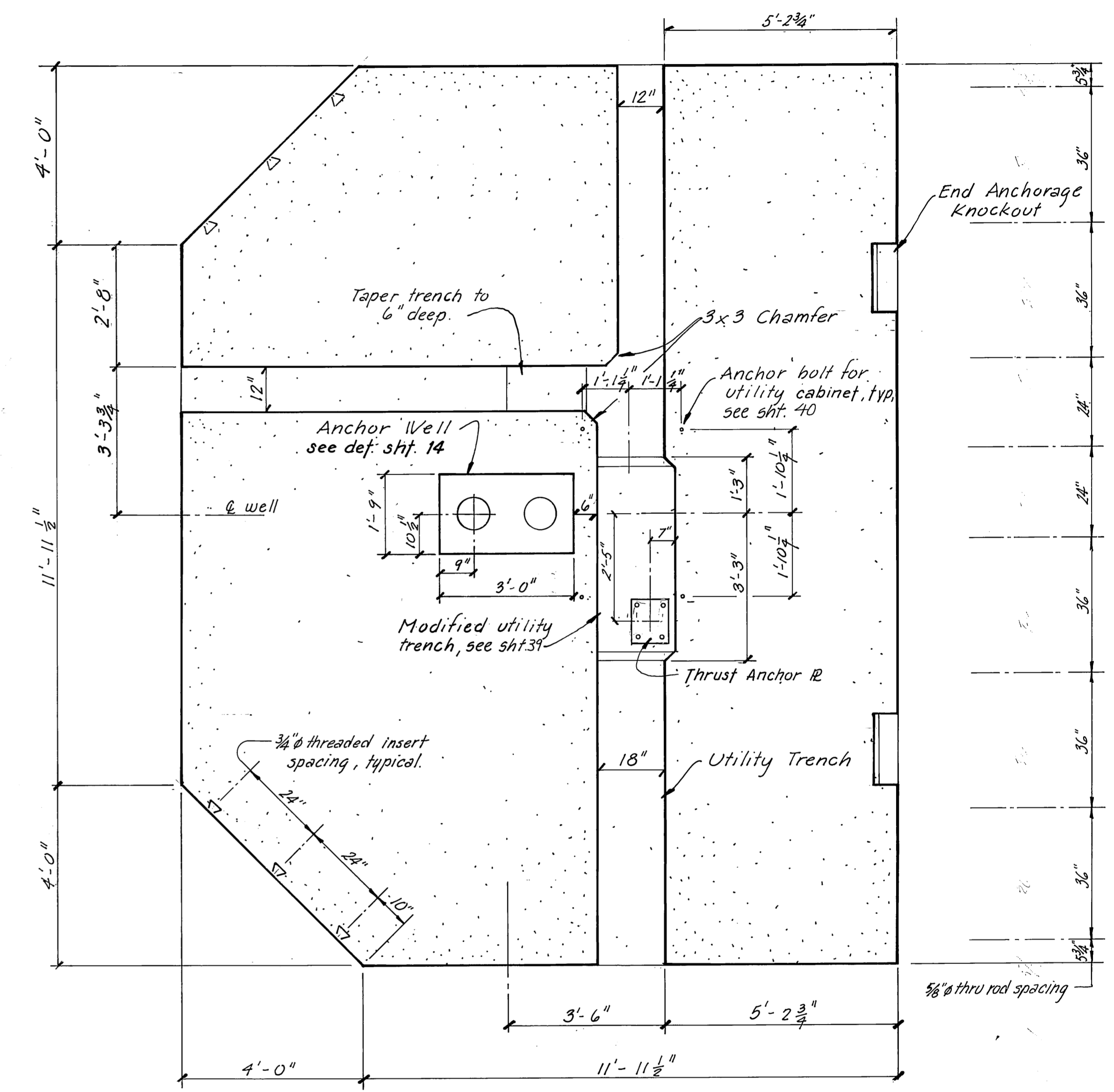
UNIT 2A



UNIT 2

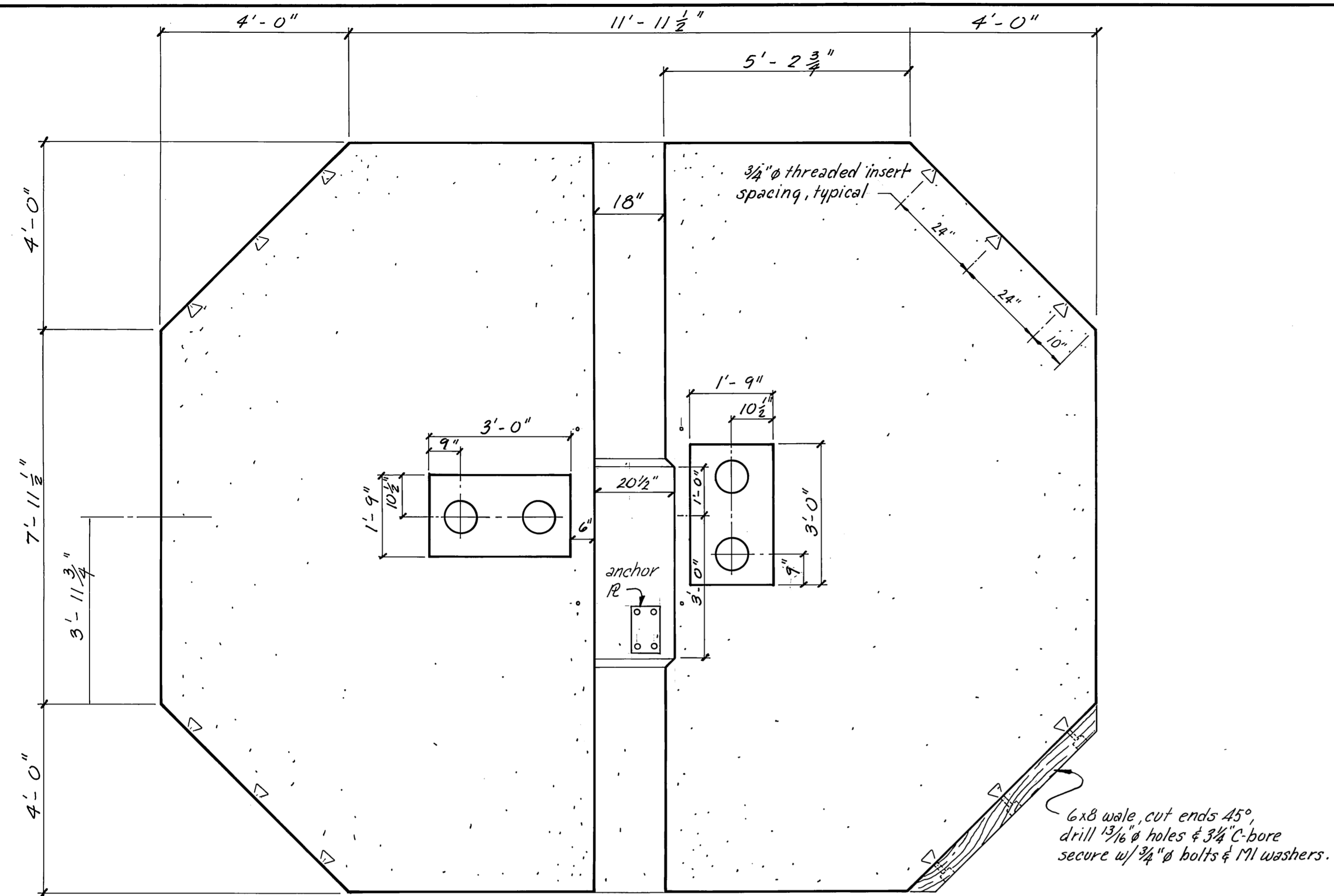
NOTE: Coast Guard float units will have 12" wide by 6" deep utility trench. Align to match unit 1.

NOTE: 8x12 post tension end block unit will have 12" wide by 10" deep utility trench. align to match unit 1.

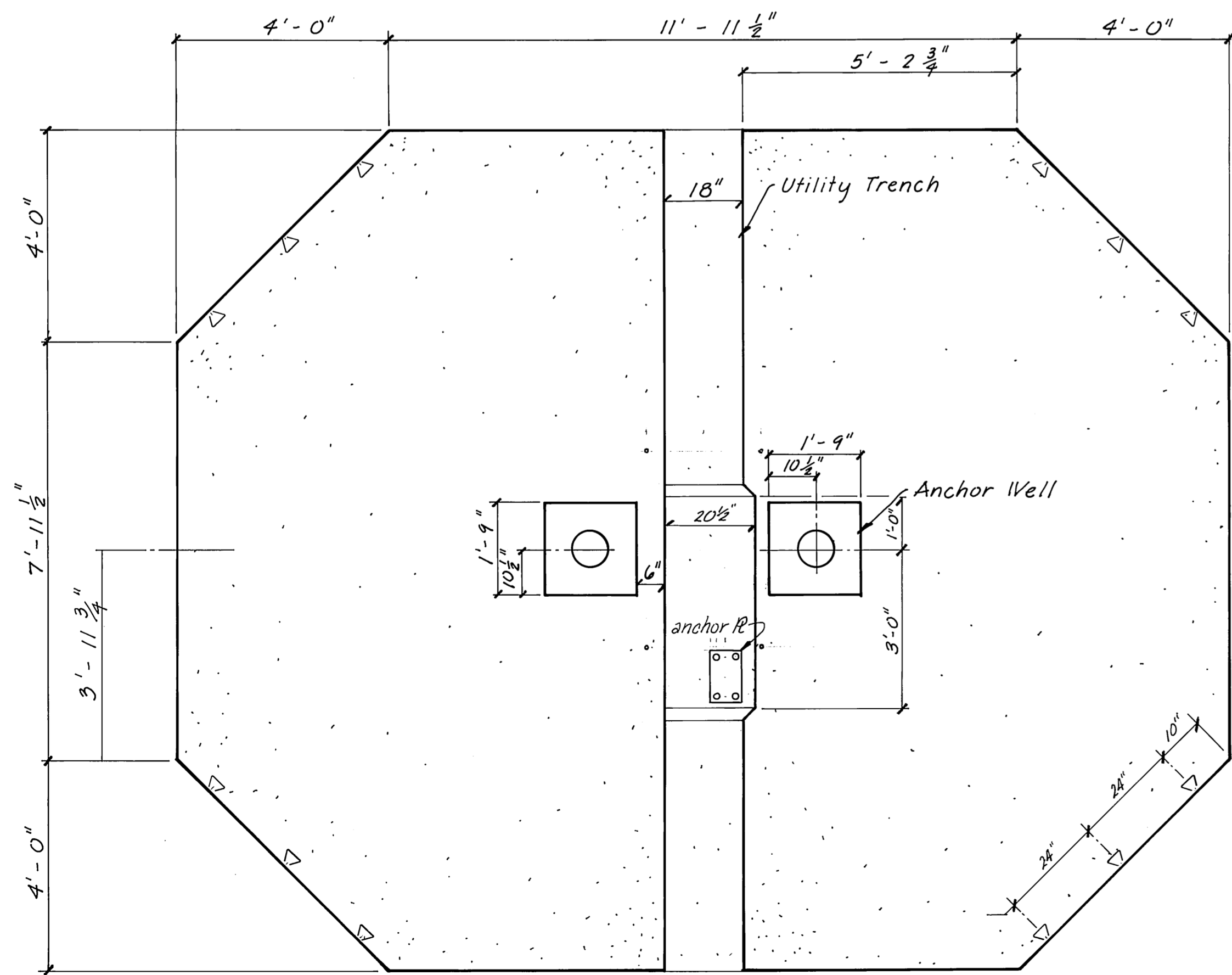


UNIT 1

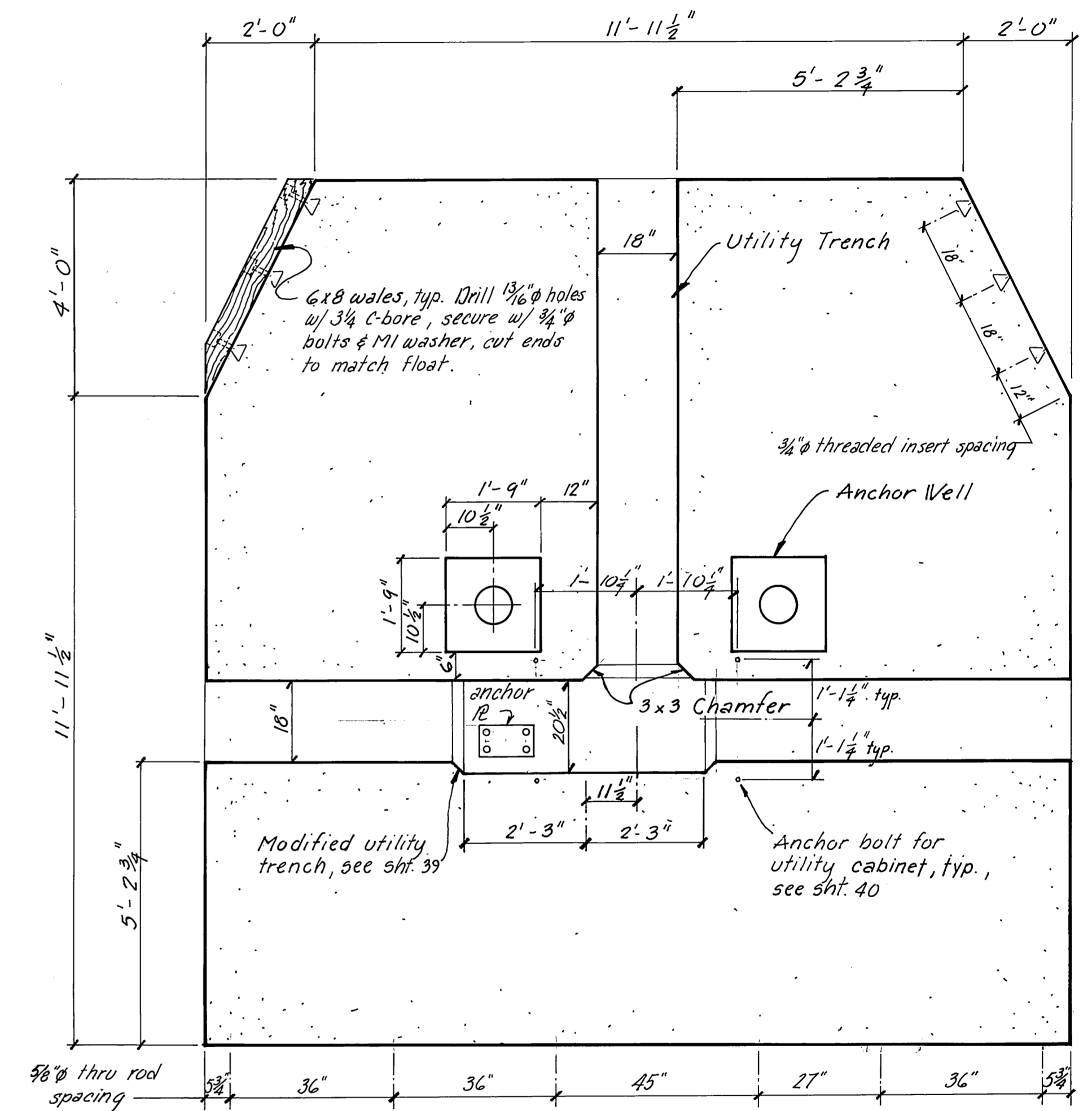
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay, Alaska SPECIAL UNITS 1, 2, 2A	
SCALE 1/2" = 1'-0"	SURVEYED	APPROVED Robert P. Beck	
DESIGNED	DRAWN JTM		
CHECKED	DATE 12-81		
PROJECT NUMBER K78180	SHEET 12 OF 41		



UNIT 4A

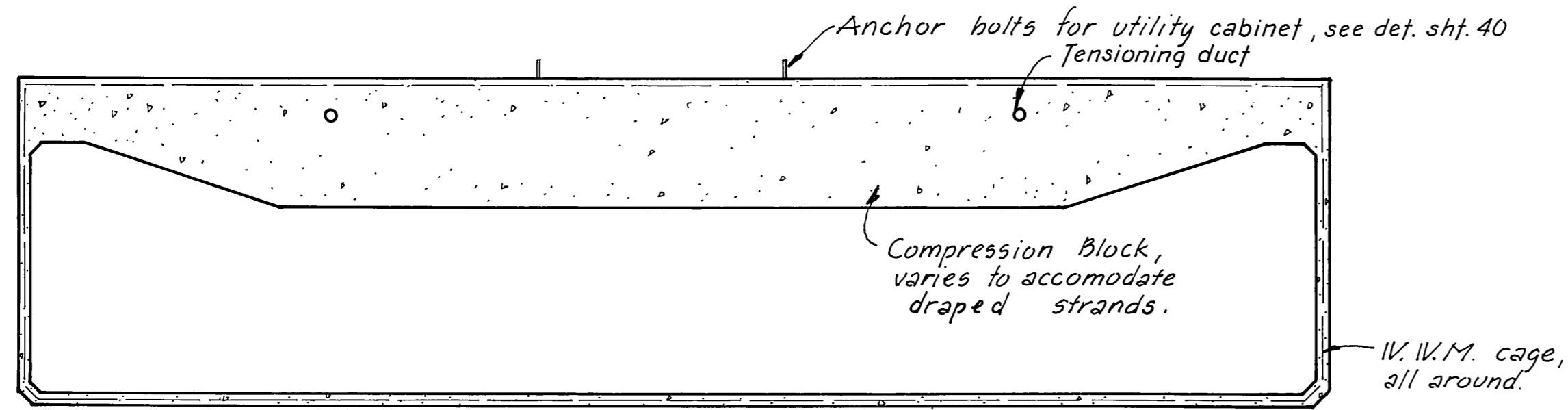


UNIT 4

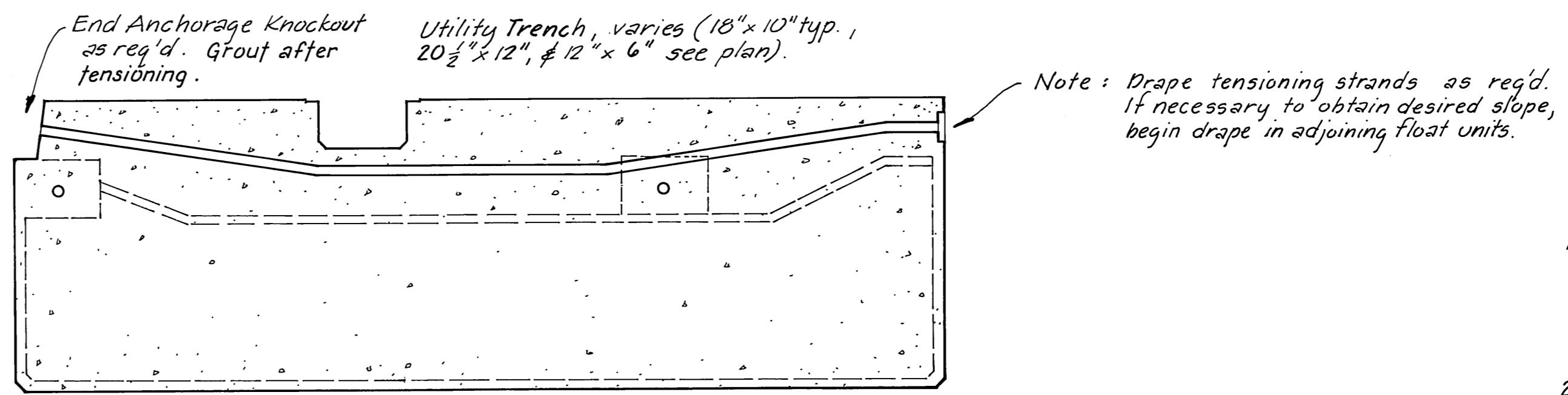


UNIT 3

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Auke Bay, Alaska SPECIAL UNITS 3, 4, 4A	
SCALE 1/2" = 1'-0" DESIGNED _____ CHECKED _____	SURVEYED _____ DRAWN JTM DATE 12-81	APPROVED Robert P. Beck
PROJECT NUMBER K78180	SHEET 13 OF 41	

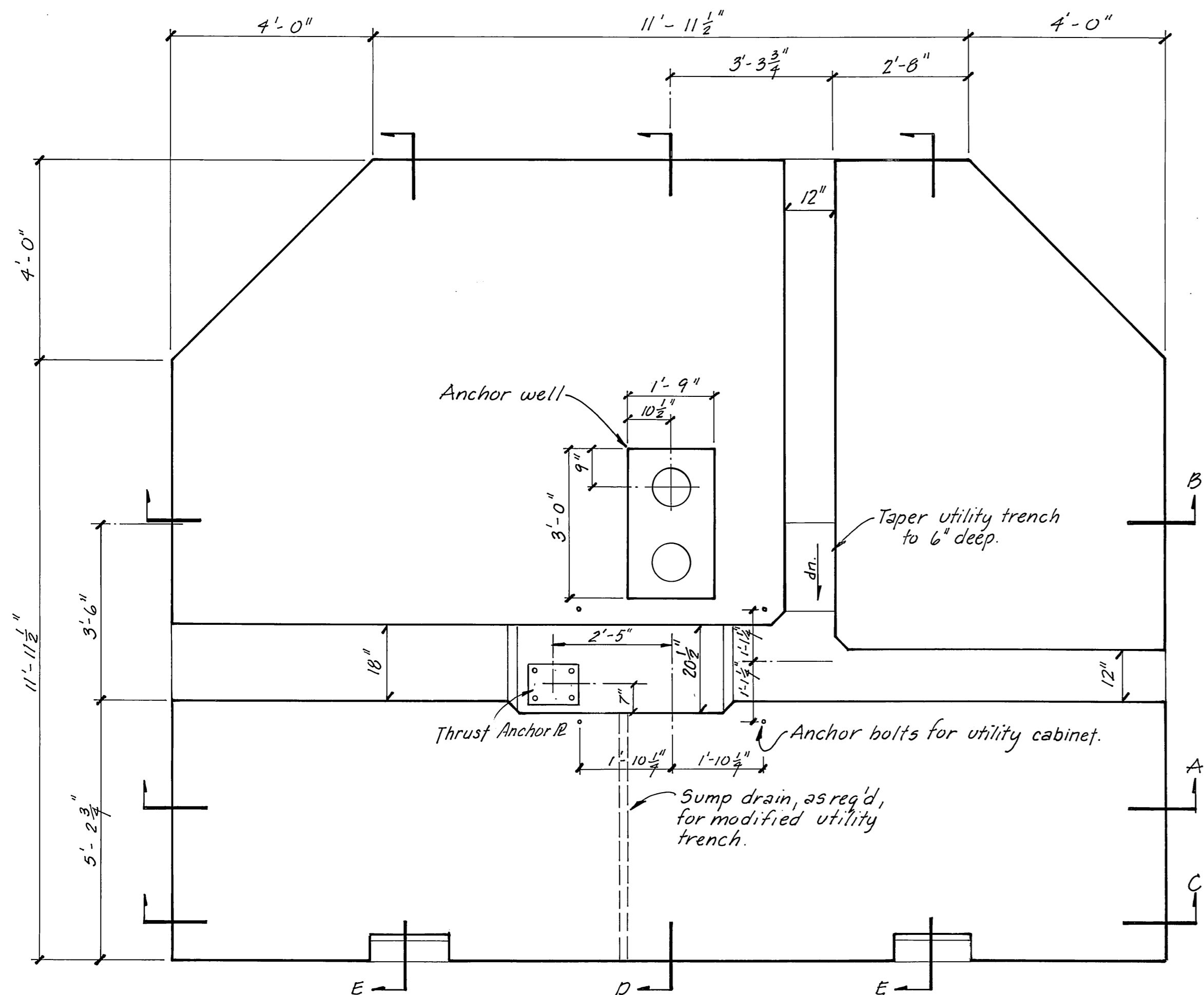


SECTION C
1/2" = 1'-0"

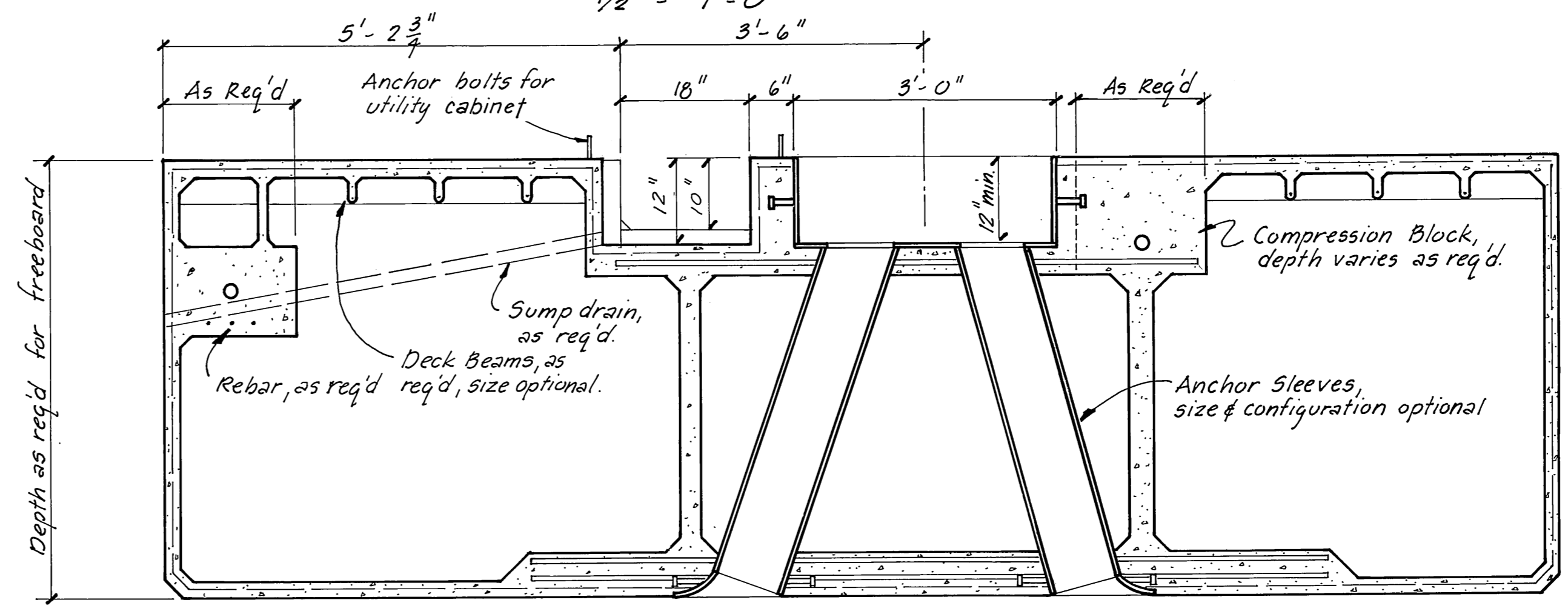


SECTION E
1/2" = 1'-0"

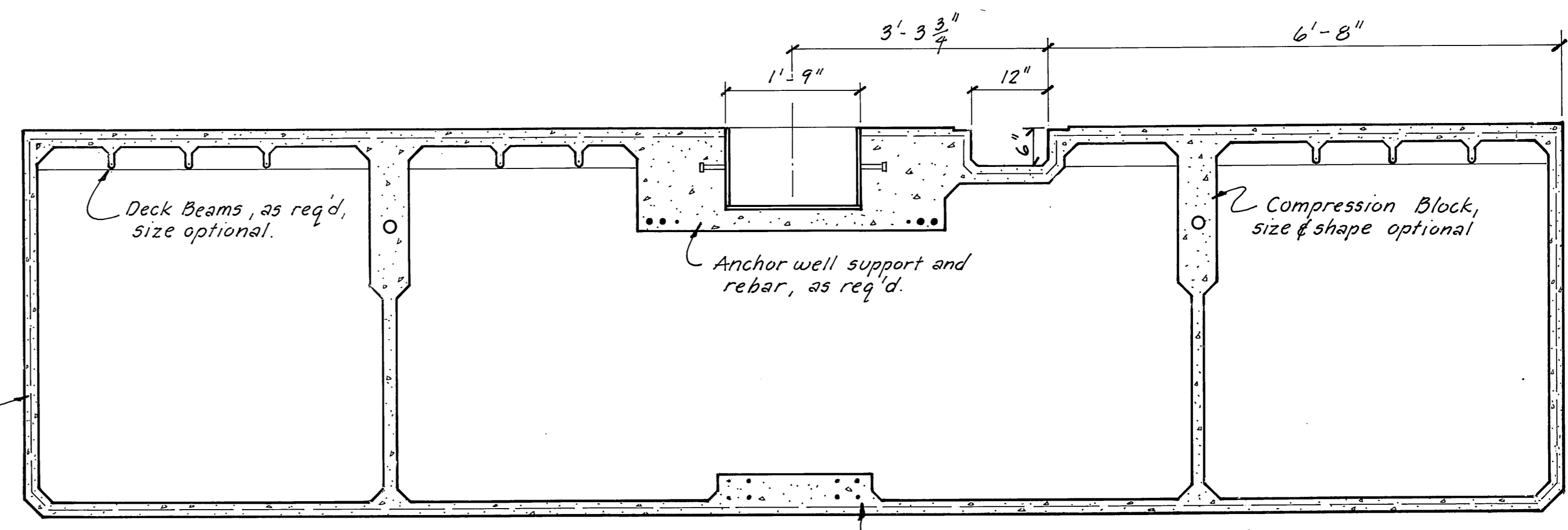
Notes:
1. Details shown this sheet are for conceptual purposes only. It shall be the contractor's option whether or not to utilize the construction details as shown. Anchor well locations shall remain where shown.
2. Provide cover #2 for anchor well.



PLAN
1/2" = 1'-0"

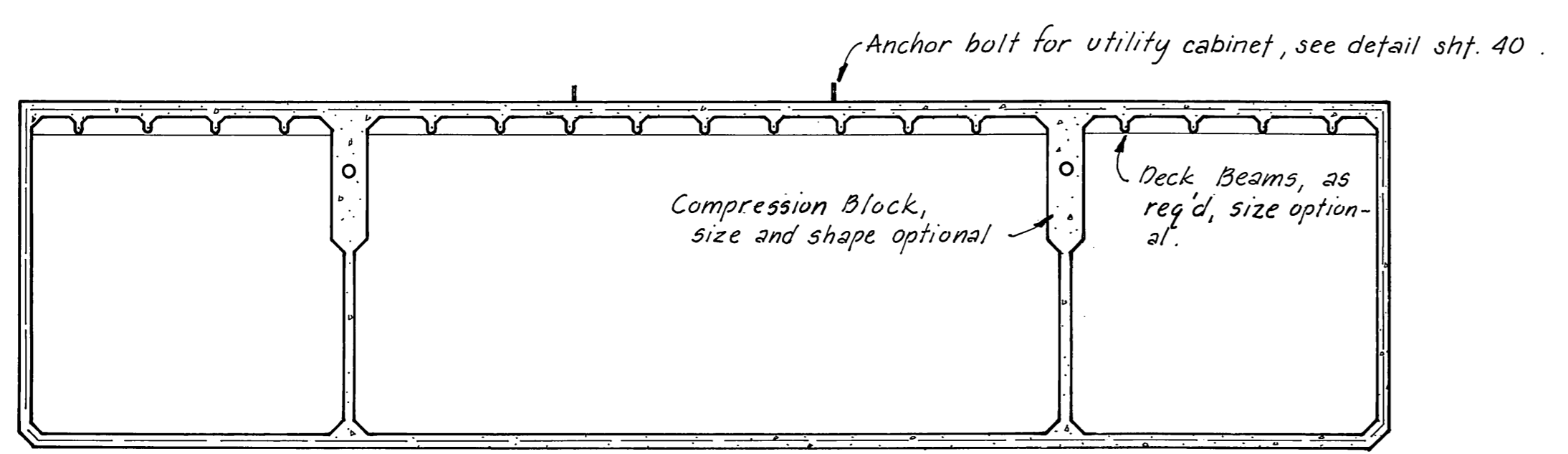


SECTION D
3/4" = 1'-0"



SECTION B
3/4" = 1'-0"

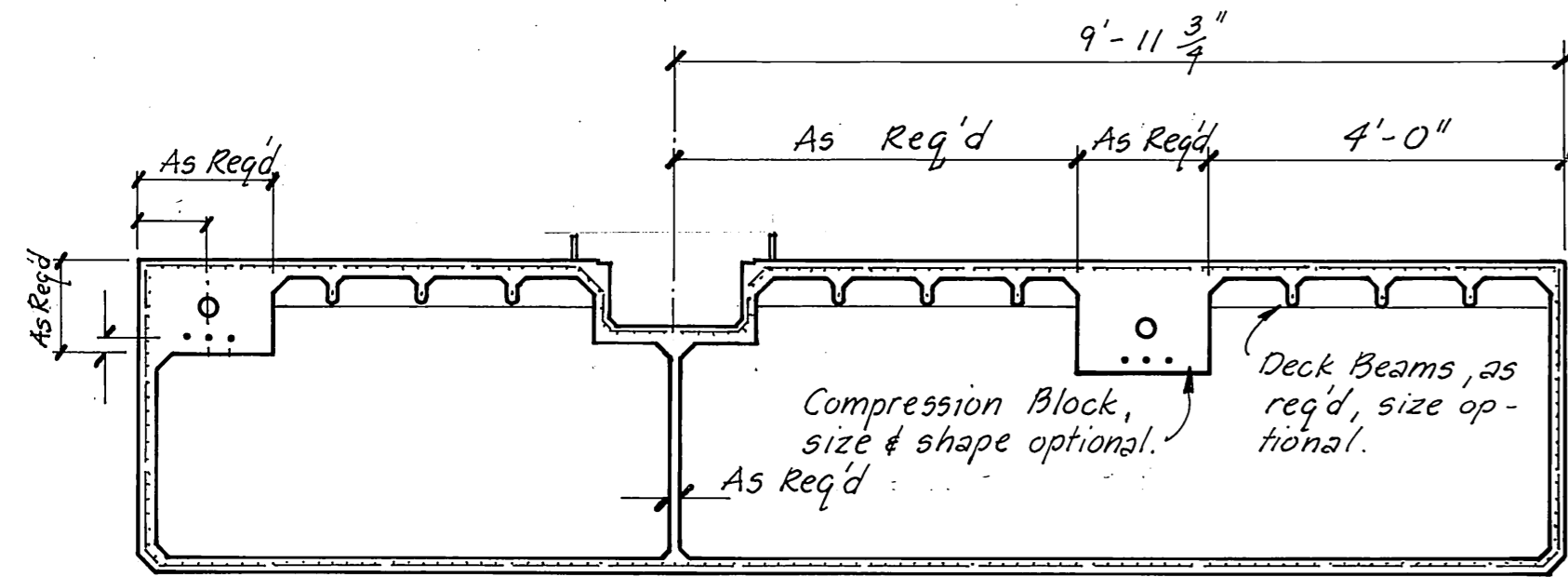
Notes: 1. Desired Anchor Well sizes:
4 way: 3'-6" x 3'-0"
2 way: 1'-9" x 3'-0"
1 way: 1'-9" x 1'-9"
Optional sizes may be submitted for approval



SECTION A
1/2" = 1'-0"

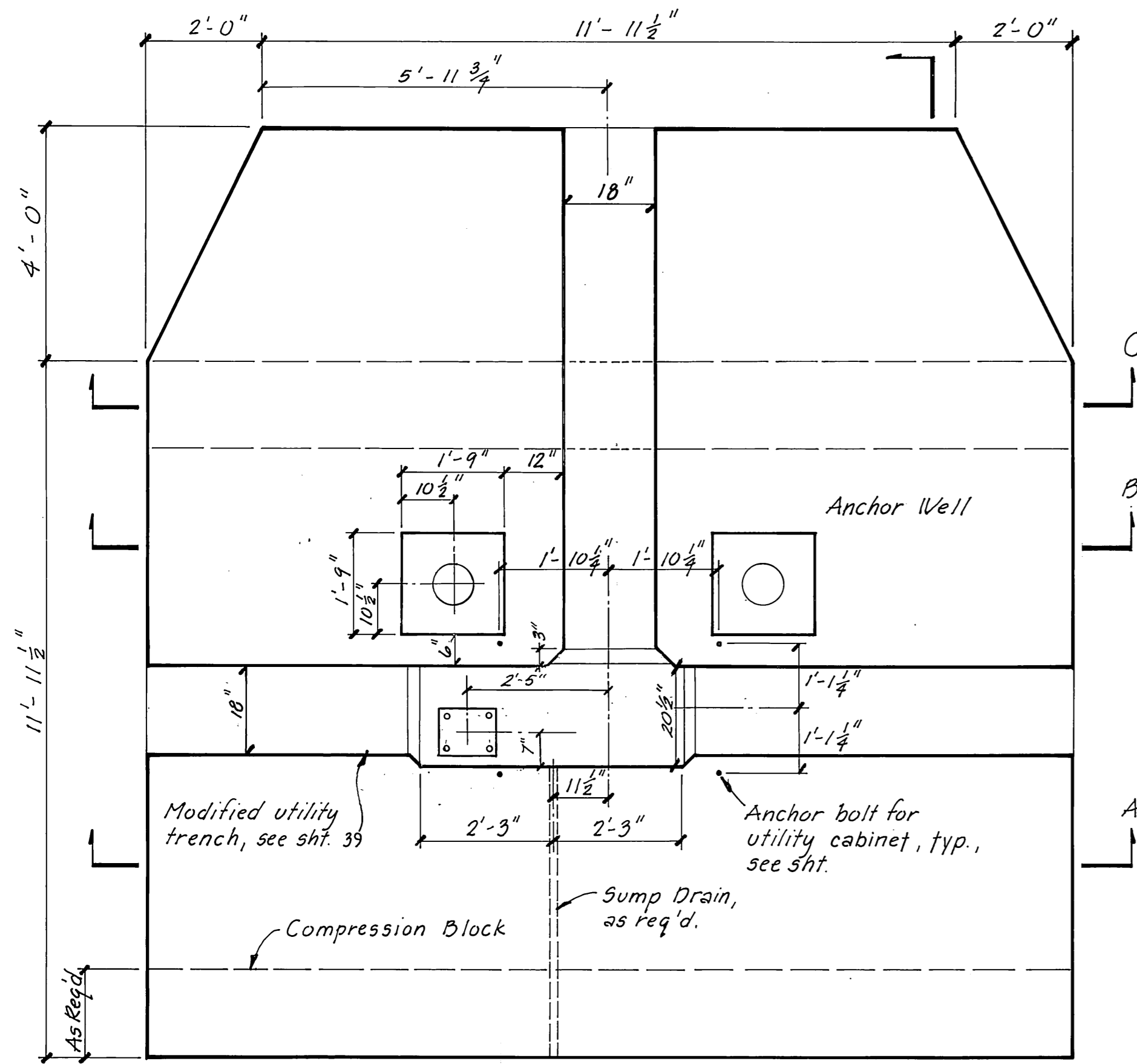
Tension ties can be concrete & rebar or steel ties.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
SCALE <i>As Noted</i> DESIGNED <i>JDB</i> CHECKED _____		SURVEYED _____ DRAWN <i>JTM</i> DATE <i>12-81</i>	
		APPROVED <i>Robert P. Beck</i>	
PROJECT NUMBER <i>K78180</i>		SHEET <i>14</i> OF <i>41</i>	

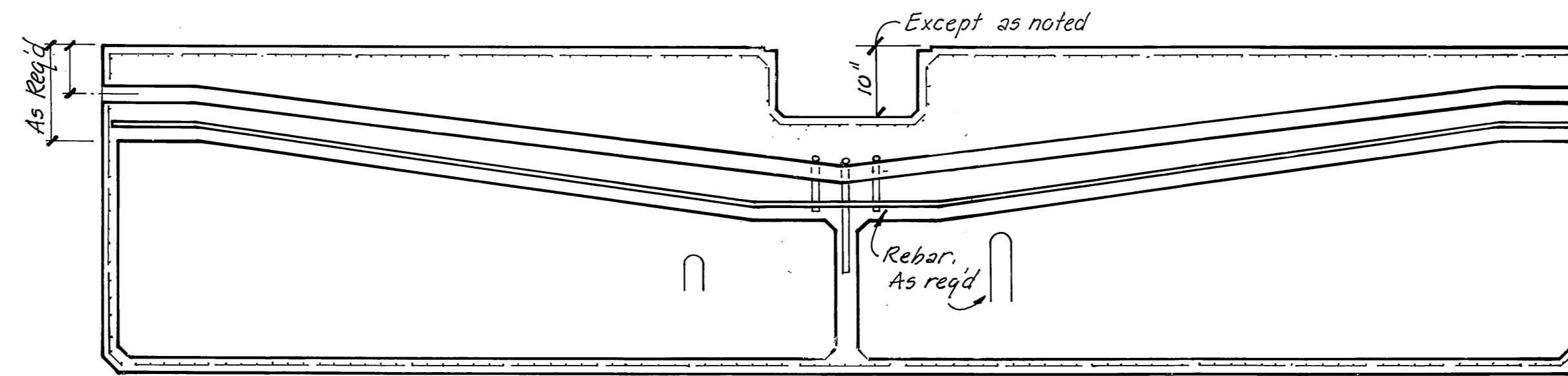


SECTION D
1/2" = 1'-0"

See notes sht. 14



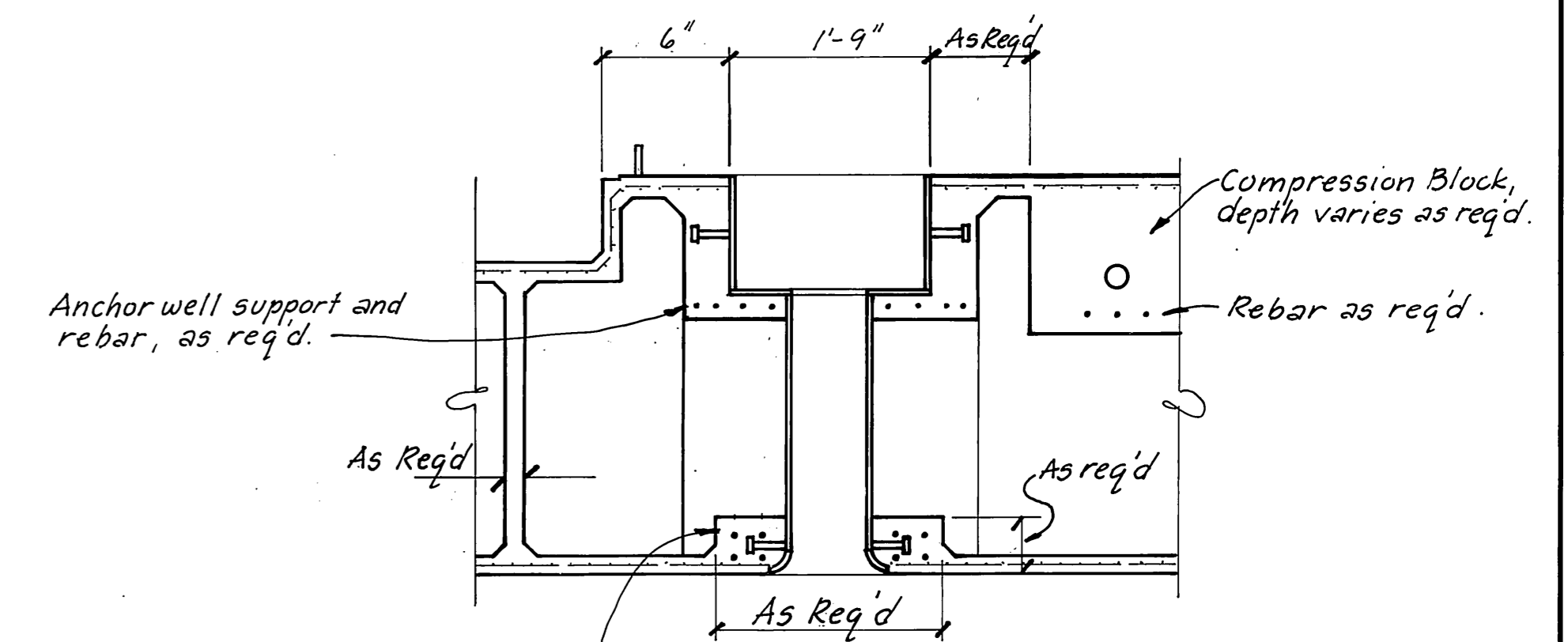
PLAN
1/2" = 1'-0"



SECTION C
3/4" = 1'-0"

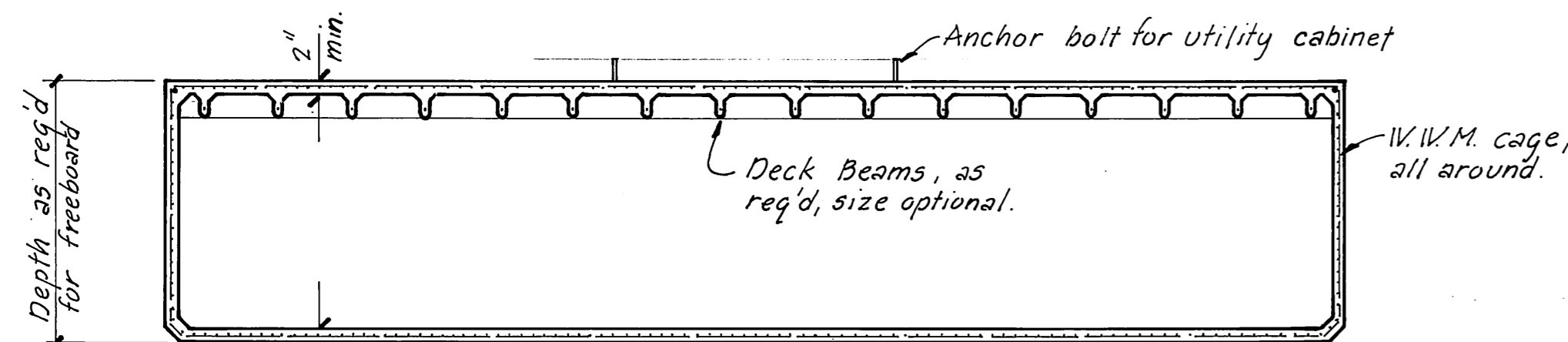
Note: Drape tensioning strands as req'd. If necessary to obtain desired slope begin drape in adjoining units.

Note: Desired Anchor Well sizes
 4 way: 3'-6" x 3'-0"
 2 way: 1'-9" x 3'-0"
 1 way: 1'-9" x 1'-9"
 Optional sizes may be submitted for approval.

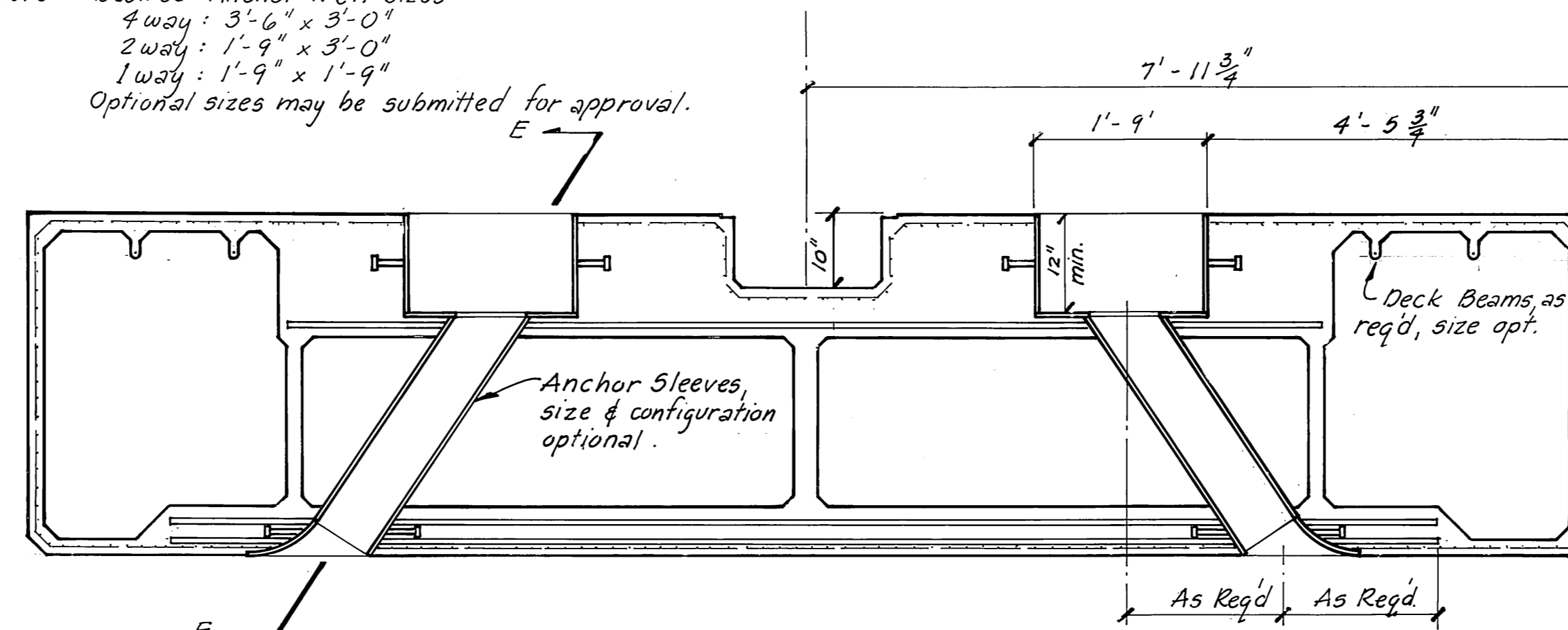


Tension ties can be concrete & rebar or steel ties.

SECTION E~E
3/4" = 1'-0"

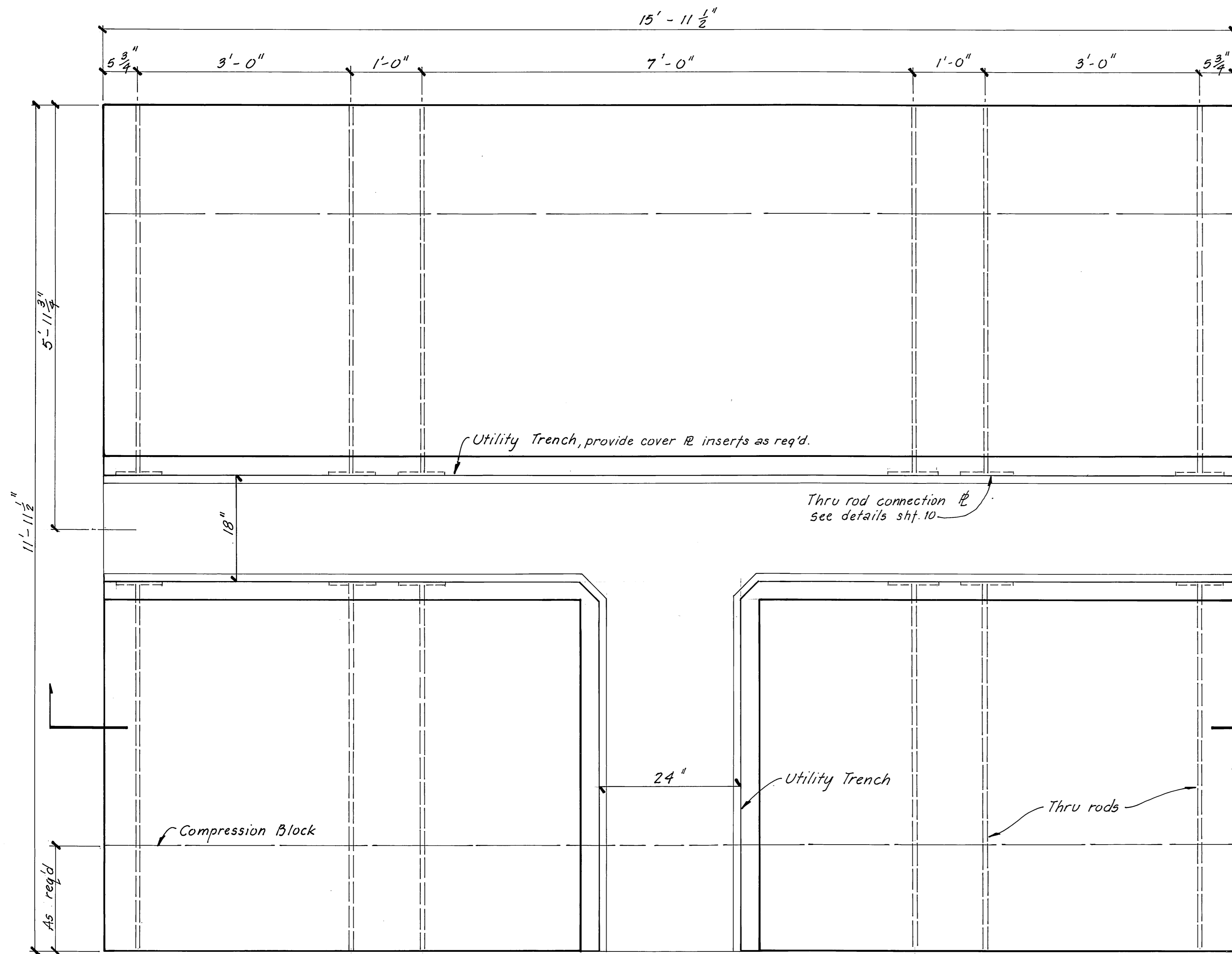


SECTION A
1/2" = 1'-0"

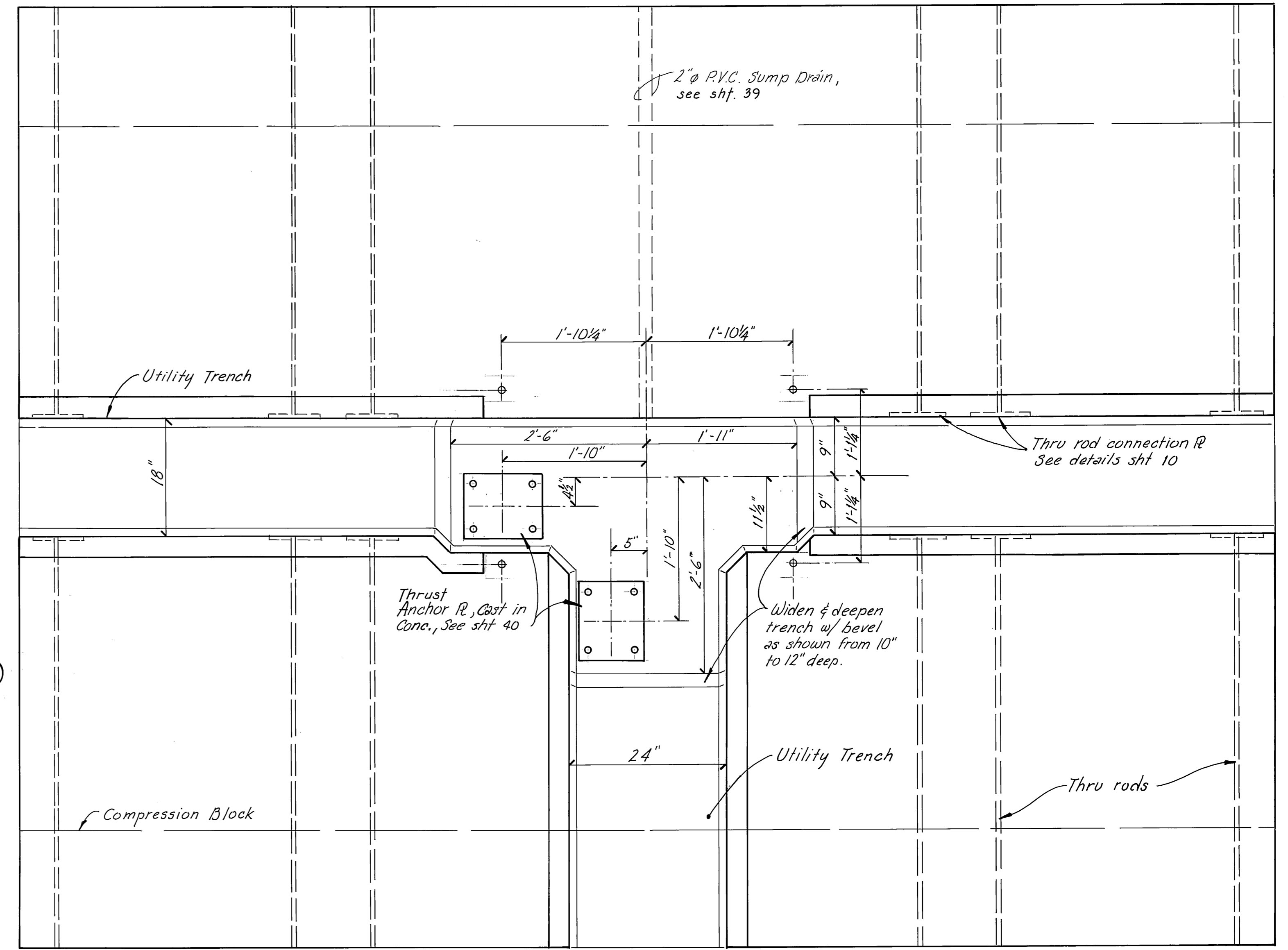


SECTION B
3/4" = 1'-0"

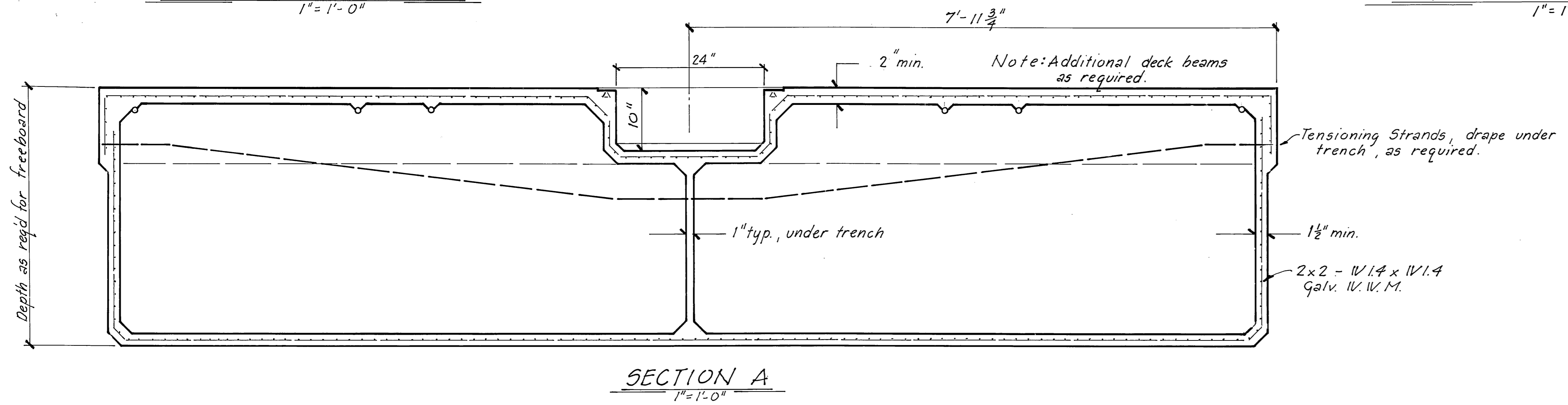
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
		SPECIAL UNIT 3 ANCHOR WELL DETAILS	
SCALE As Noted	SURVEYED	APPROVED <u>Robert P. Beck</u>	
DESIGNED <u>JB</u>	DRAWN <u>TM</u>		
CHECKED	DATE <u>12-81</u>		
PROJECT NUMBER <u>K78180</u>	SHEET <u>18</u> OF <u>41</u>		




PLAN
12' x 16' SPECIAL UNIT 5A
1" = 1'-0"

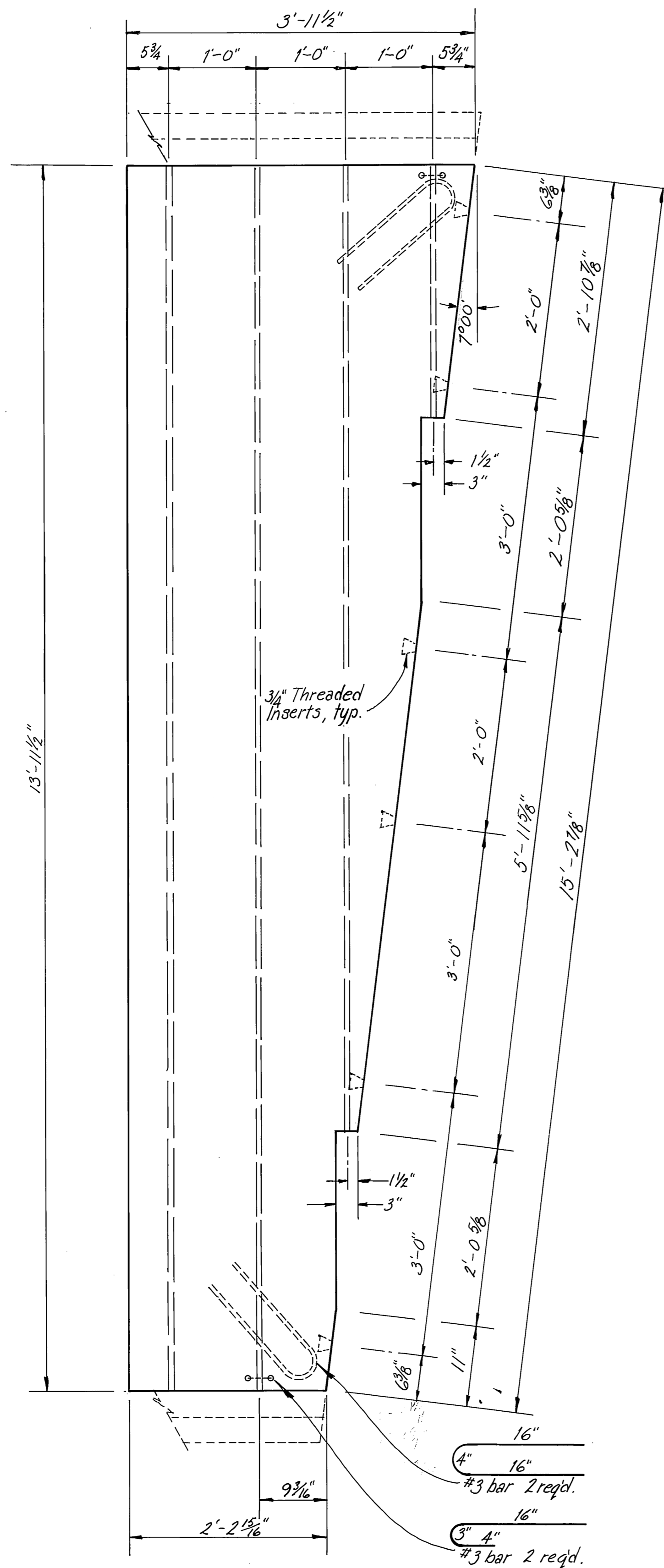


PLAN
12' x 16' SPECIAL UNIT 5
1" = 1'-0"

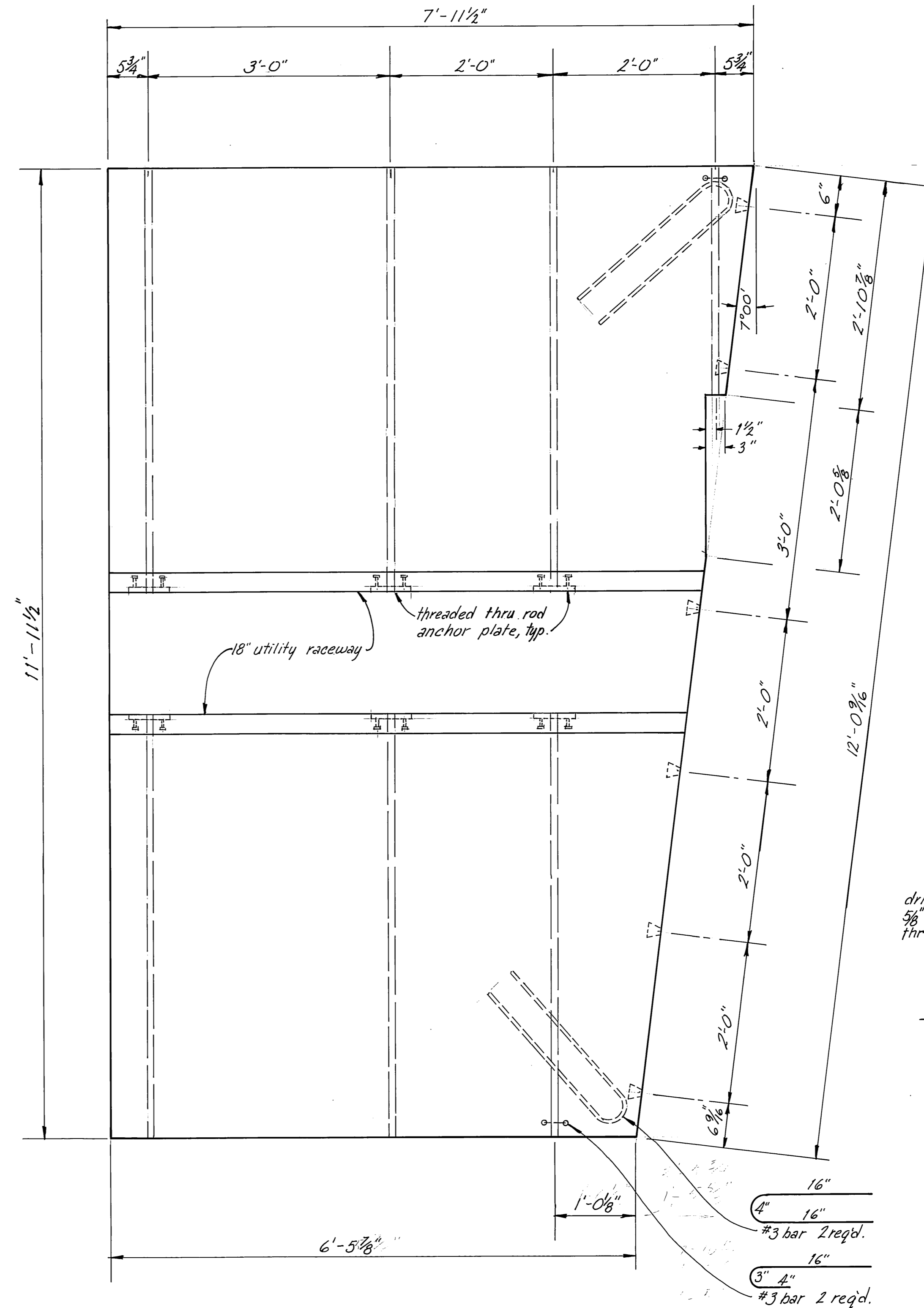


SECTION A
1" = 1'-0"

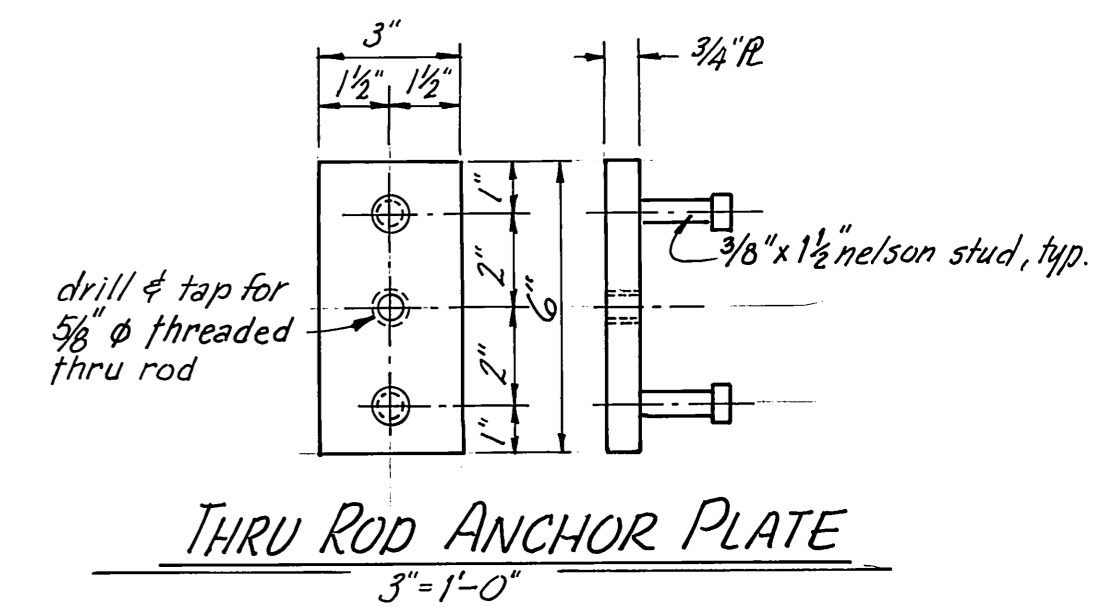
STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Alaska Bay Alaska	
SPECIAL UNIT 5 & 5A		
SCALE <u>As Noted</u> DESIGNED _____ CHECKED <u>JDB</u>	SURVEYED _____ DRAWN <u>JTM</u> DATE <u>12-81</u>	APPROVED <u>Robert P. Beck</u>
PROJECT NUMBER _____	SHEET <u>16</u> OF <u>41</u>	



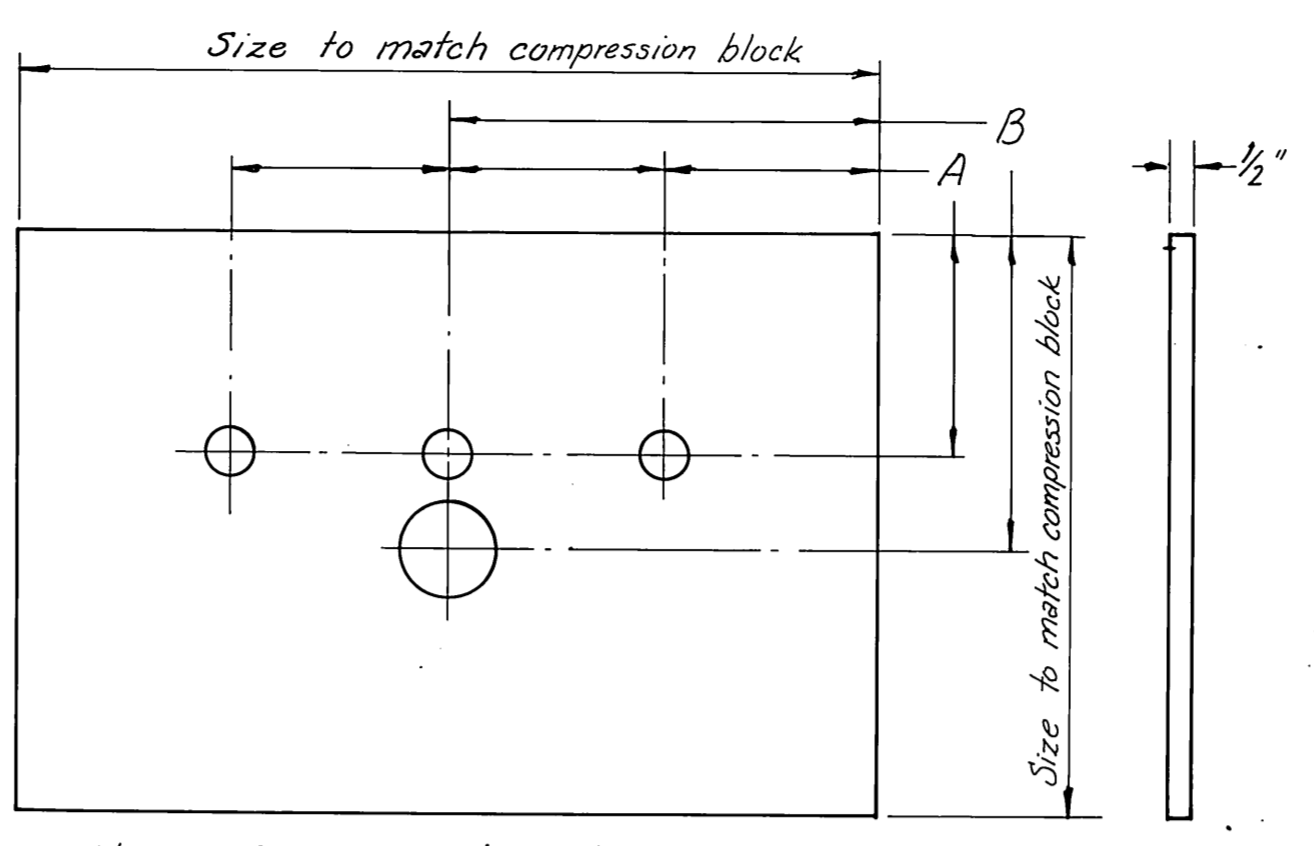
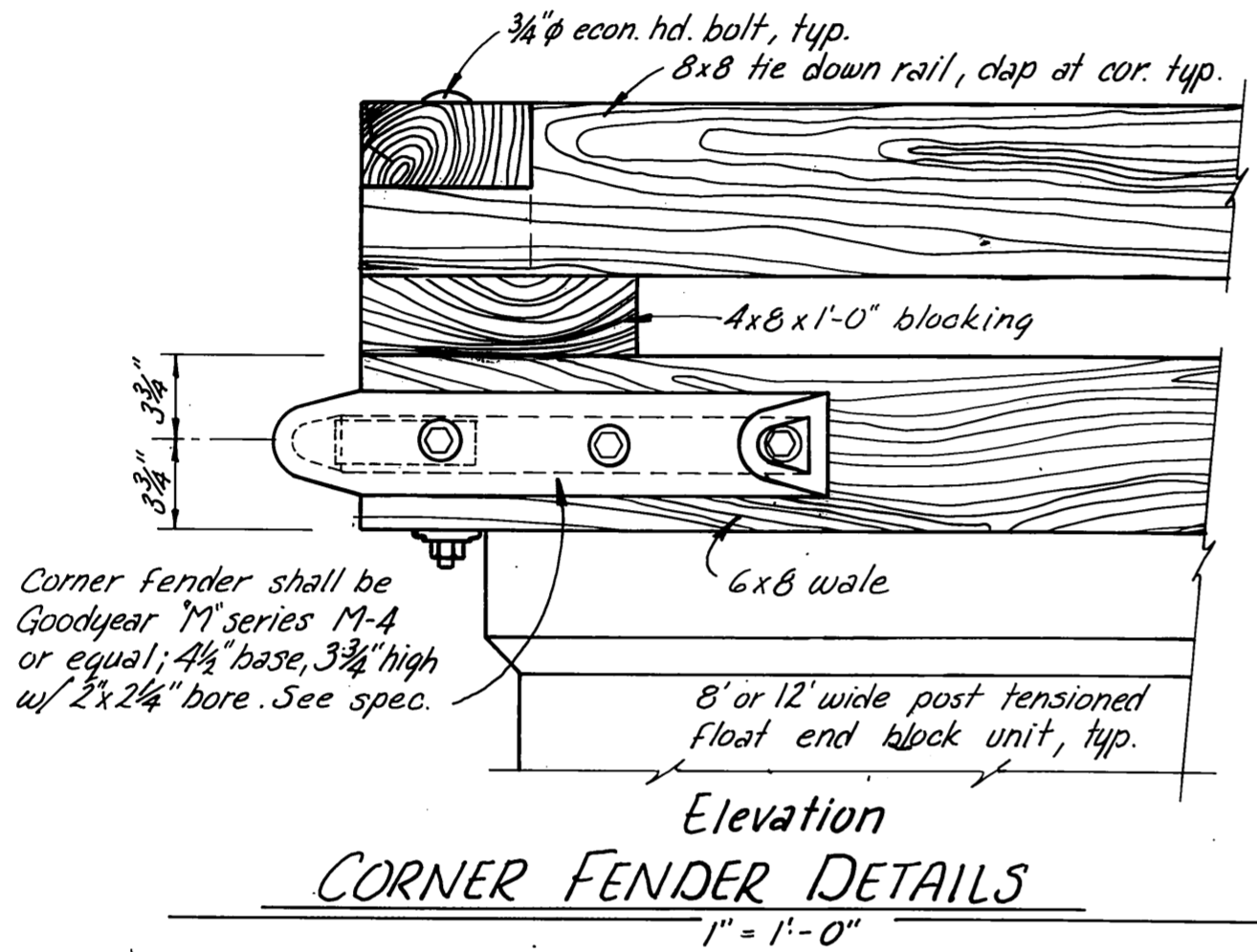
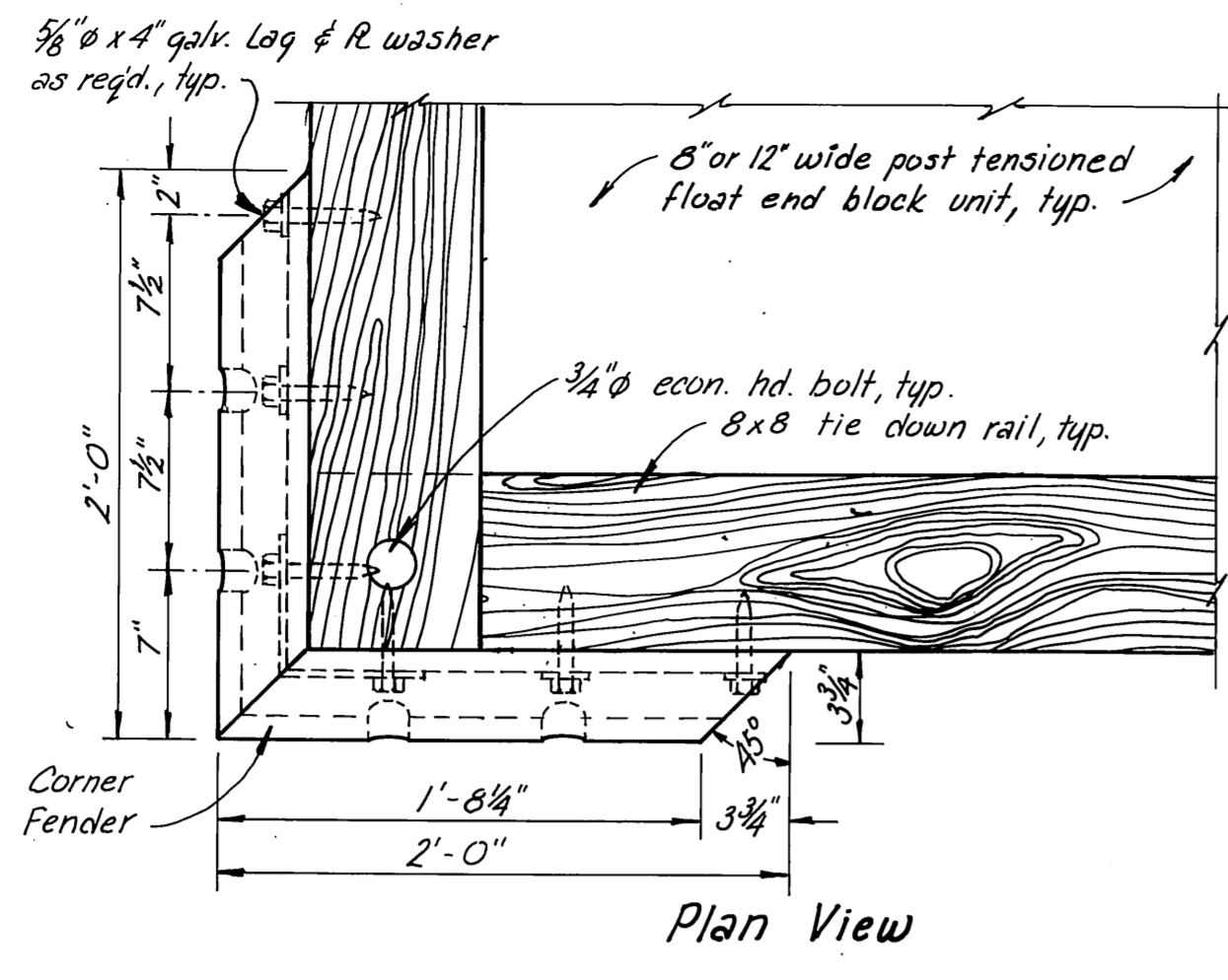
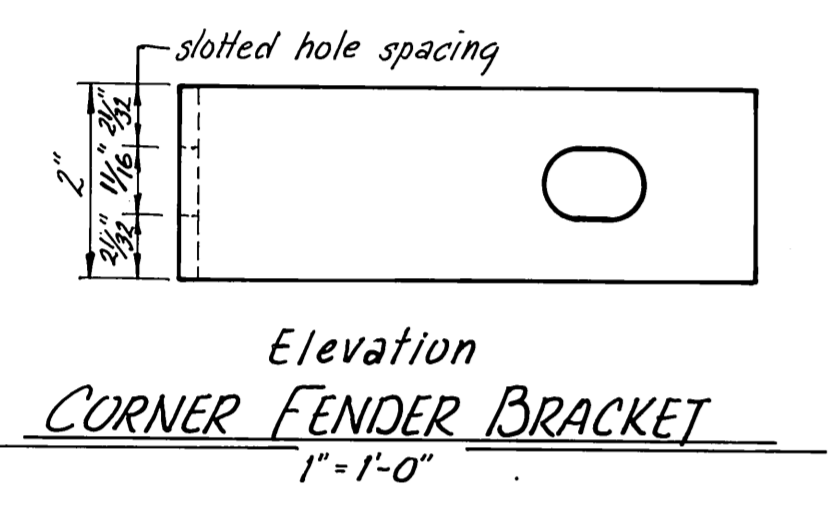
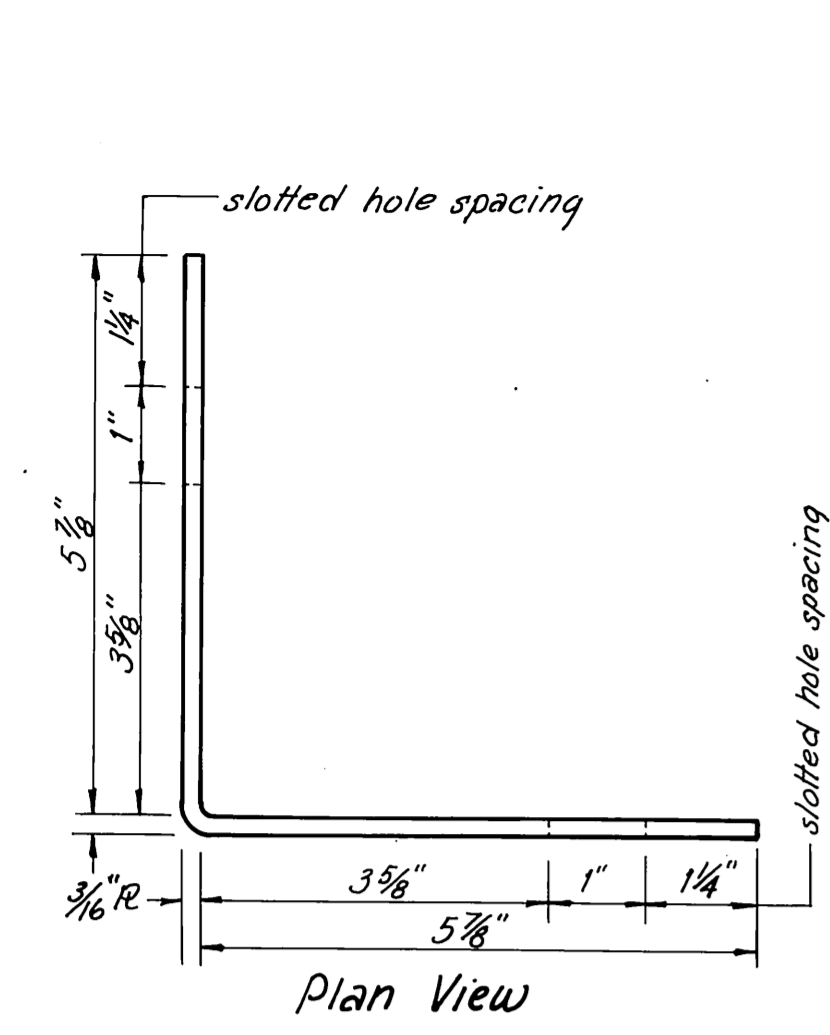
GANGWAY FLOAT SPECIAL END UNIT
1" = 1'-0"



MAIN FLOAT SPECIAL END UNIT
1" = 1'-0"



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay, Alaska MAIN FLOAT & GANGWAY FLOAT END UNITS	
SCALE 1" = 1'-0"	SURVEYED	APPROVED Robert P. Beck	
DESIGNED	DRAWN <i>WV</i>		
CHECKED <i>JOB</i>	DATE 12-81		
PROJECT NUMBER K 78180	SHEET 17 OF 41		



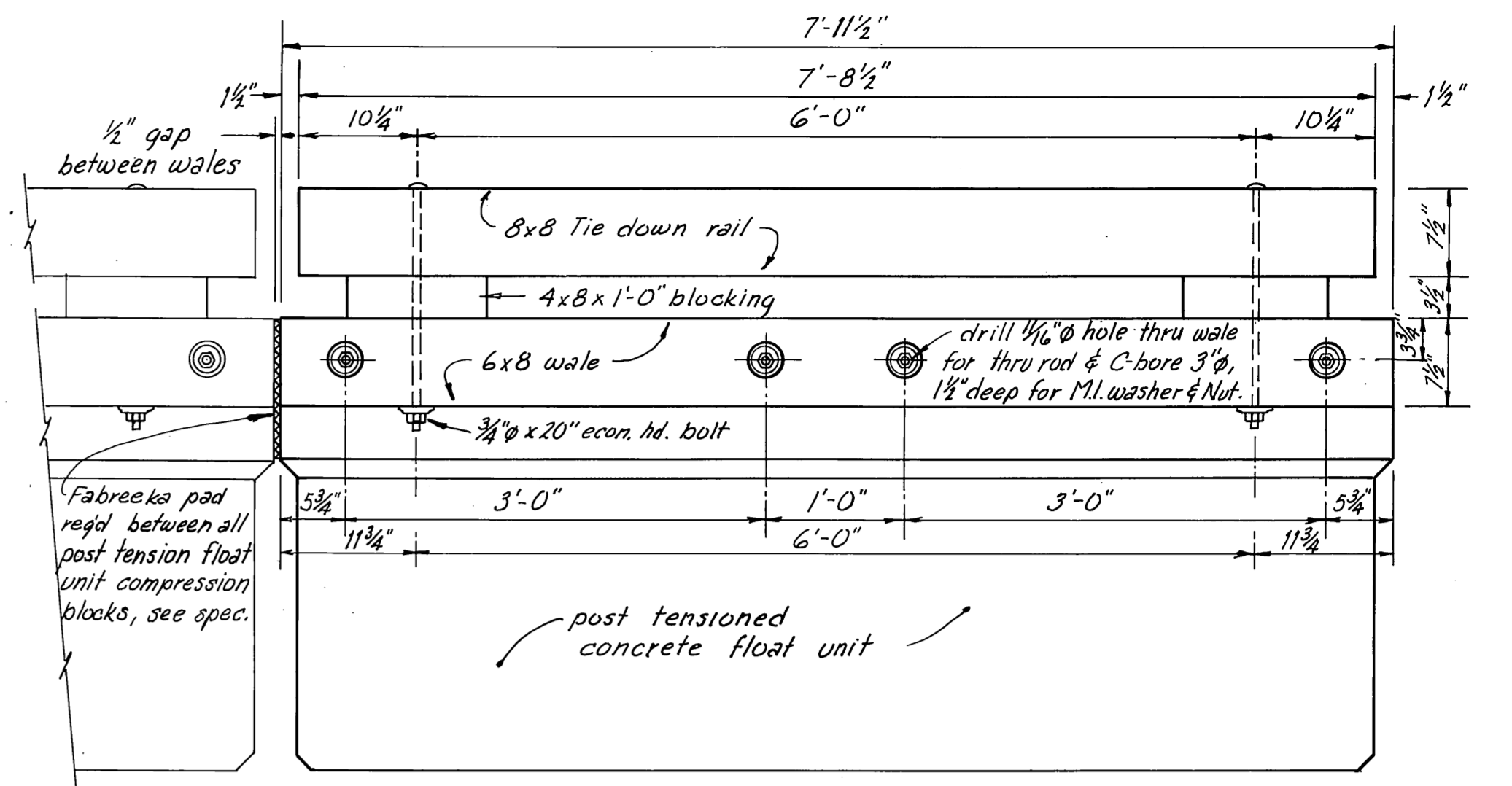
Note: Fabreeka pad req'd. at all corners between all post tension float unit compression blocks. See spec. Over all dimensions to match compression block w/ holes to match tension cable ducts 8" wide floats (A) & 12" wide floats (B).

FABREEKA PAD

NTS

NOTE:

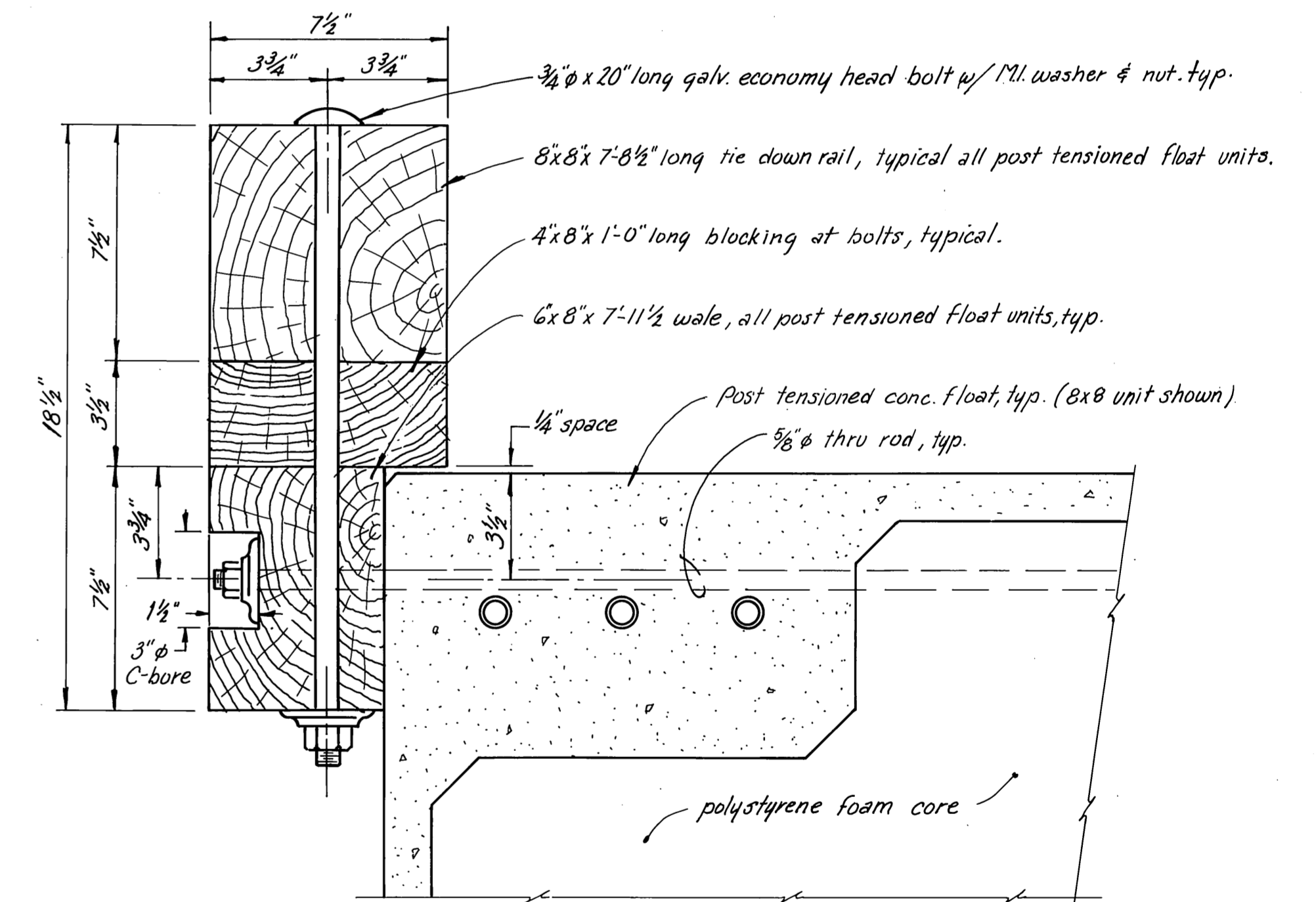
- 7'-11 1/2" long post tensioned float units are detailed. Longer float units may be used. If longer units are used, the max. tie down rail bolt spacing = 6'-0" and max. thru rod spacing = 3'-0".
- D-fender req'd. all around Coast Guard float and at intersection with existing timber floats.



ELEVATION

TYPICAL TIE DOWN RAIL, 8x8 & 8x12 POST TENSIONED FLOATS

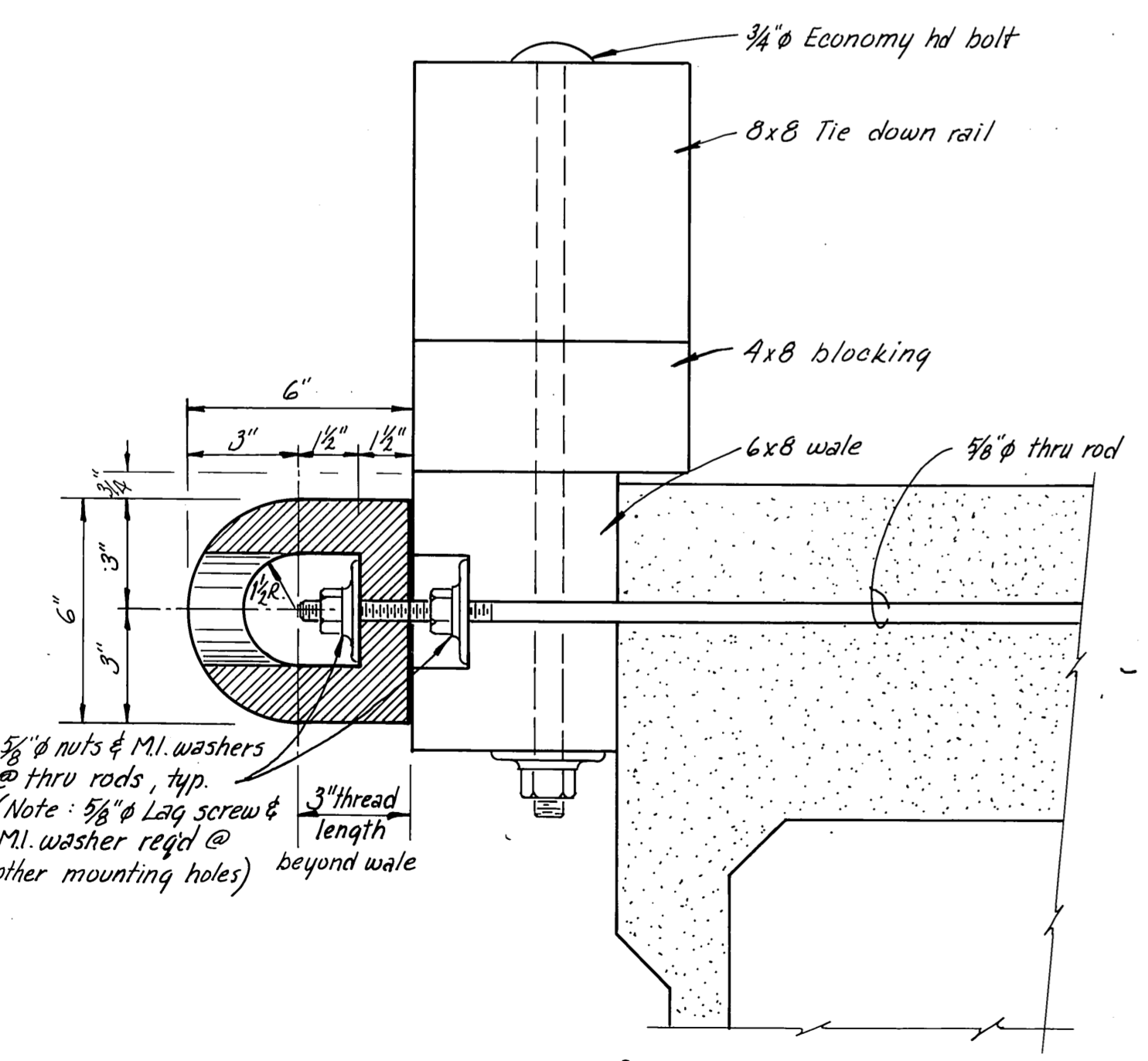
1" = 1'-0"



TYPICAL SECTION THRU TIE DOWN RAIL

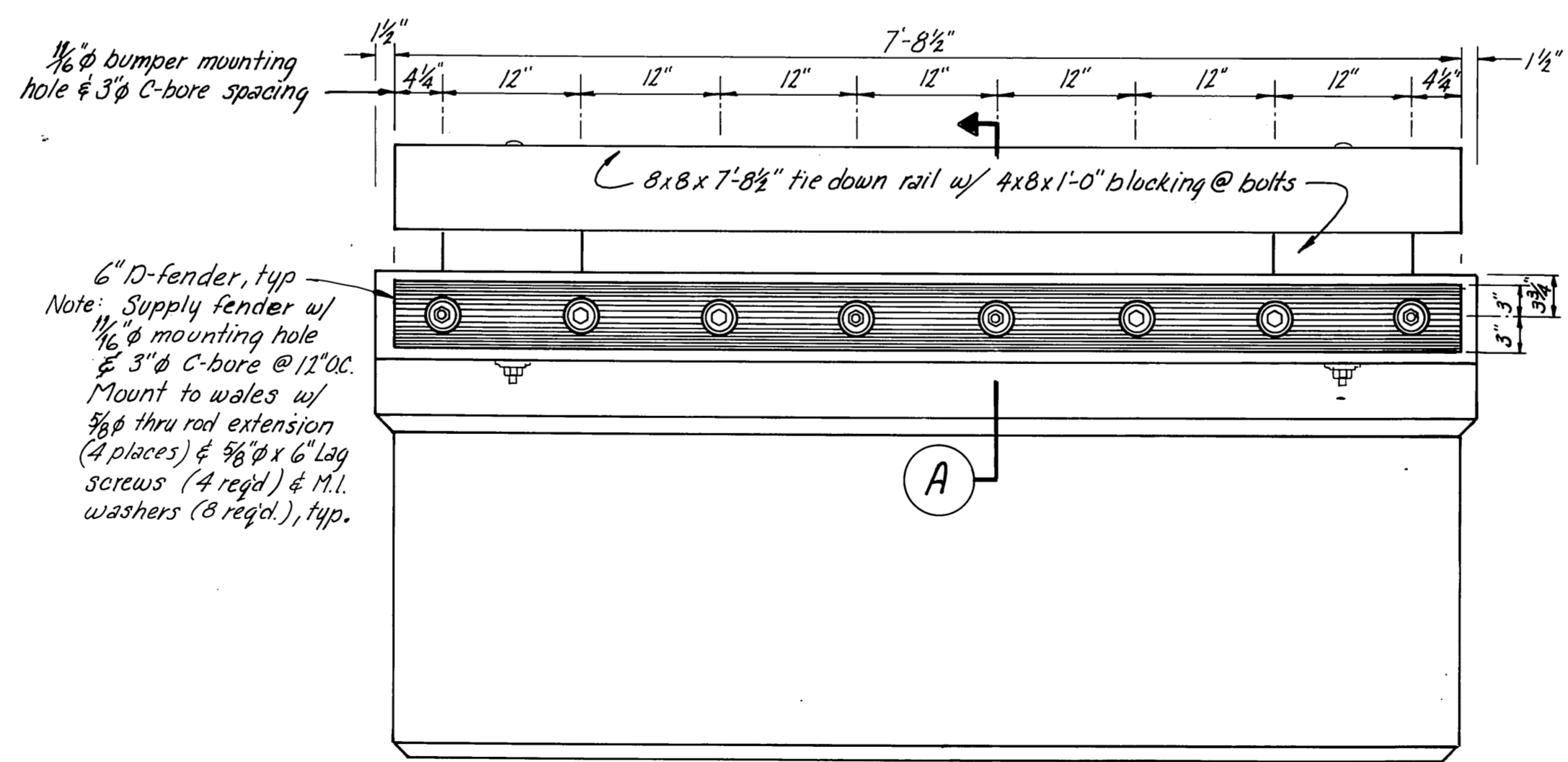
3" = 1'-0"

Note: All timber to be S4S except as noted.



SECTION A D-FENDER DETAILS

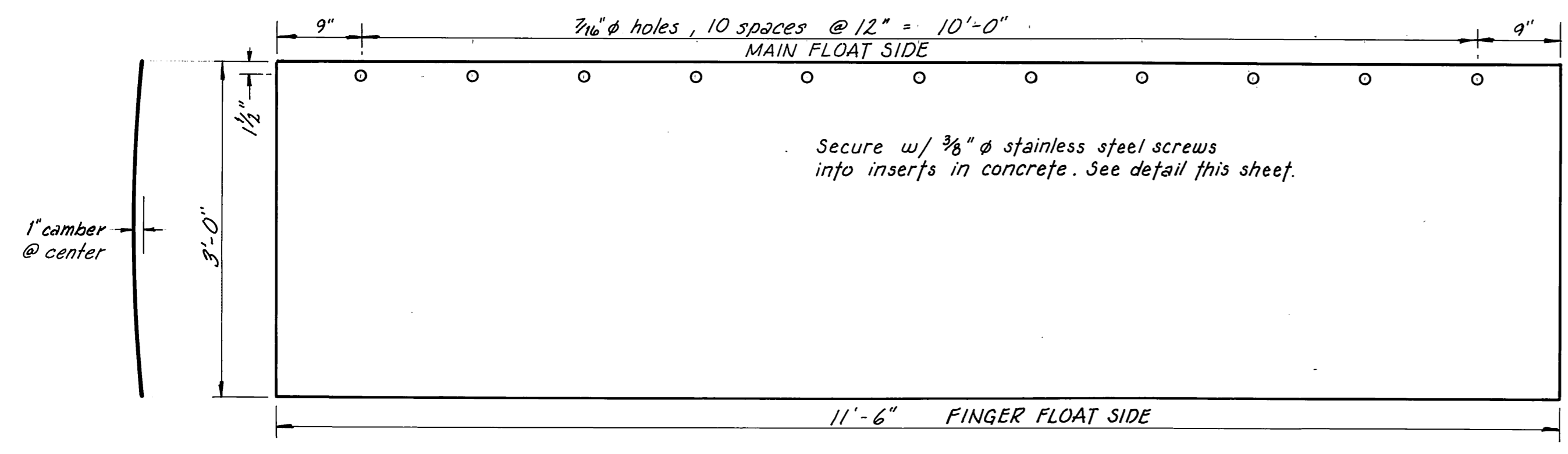
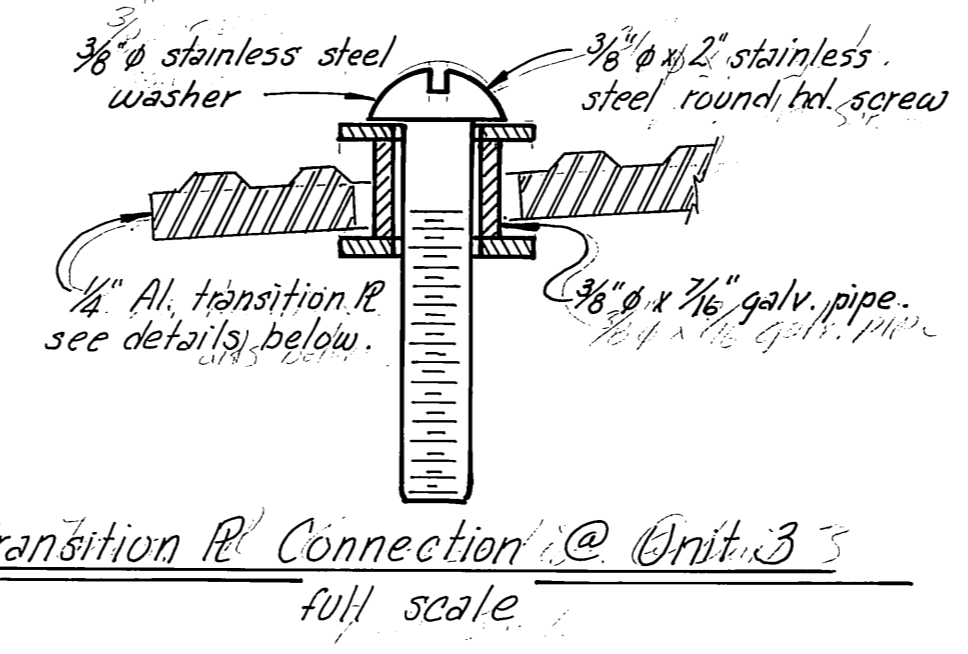
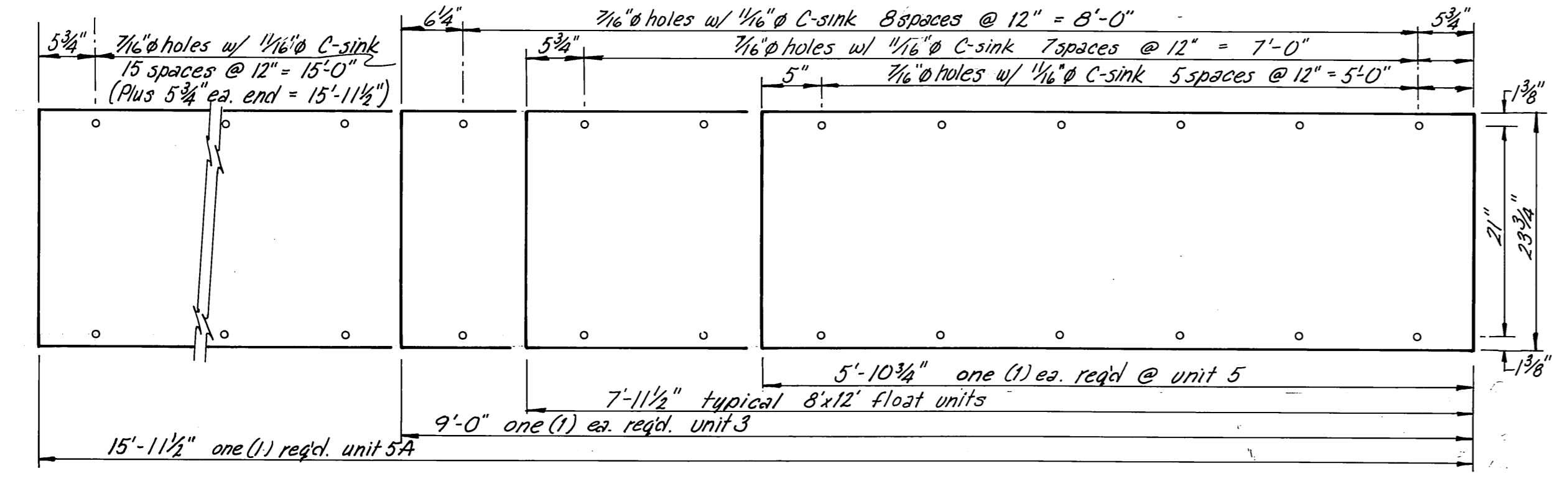
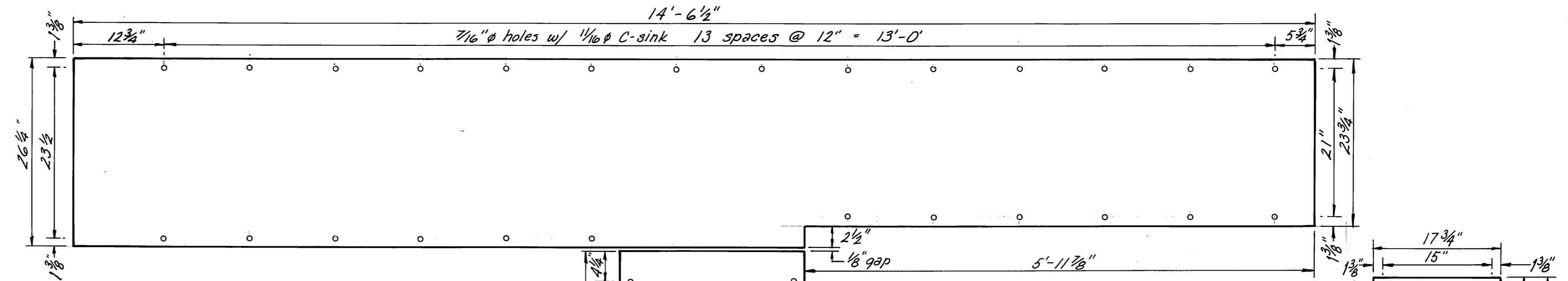
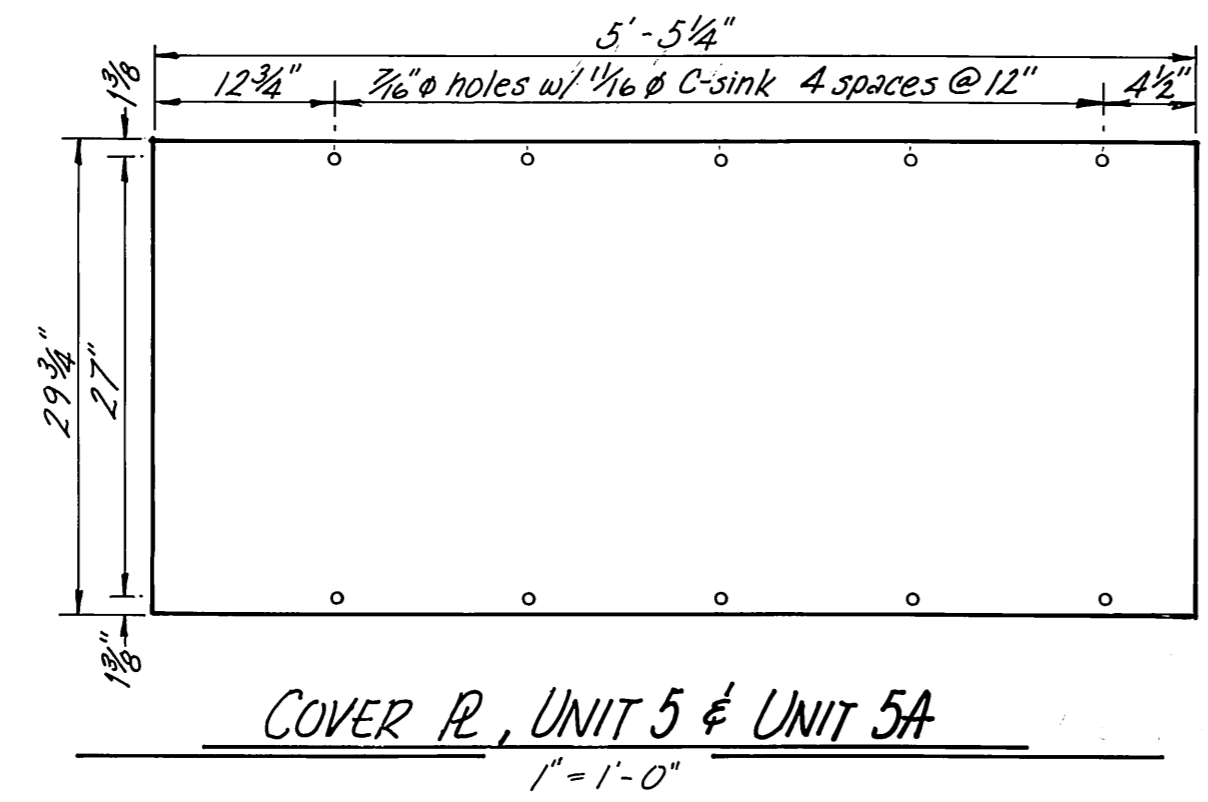
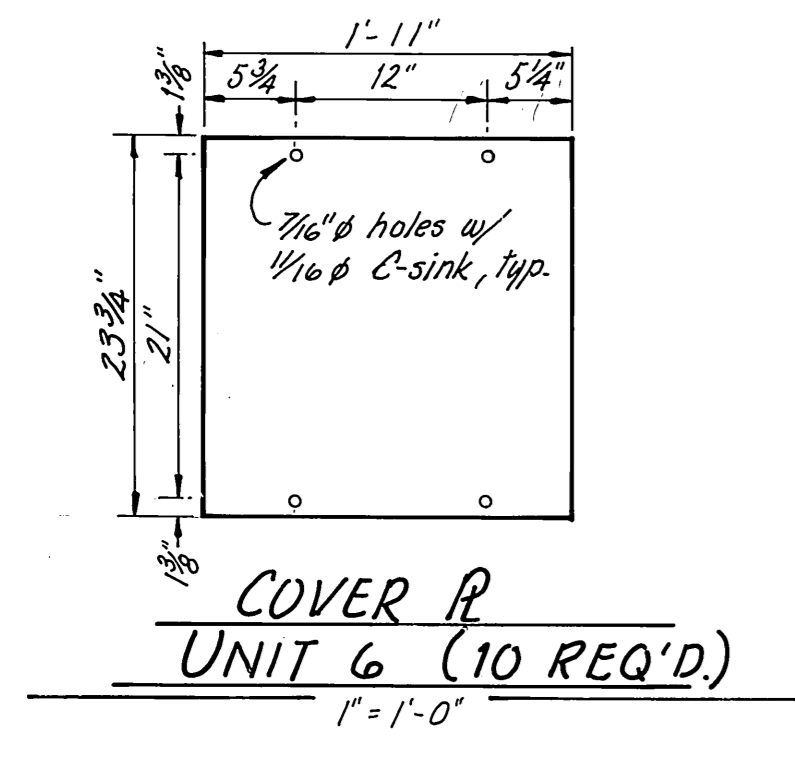
3" = 1'-0"



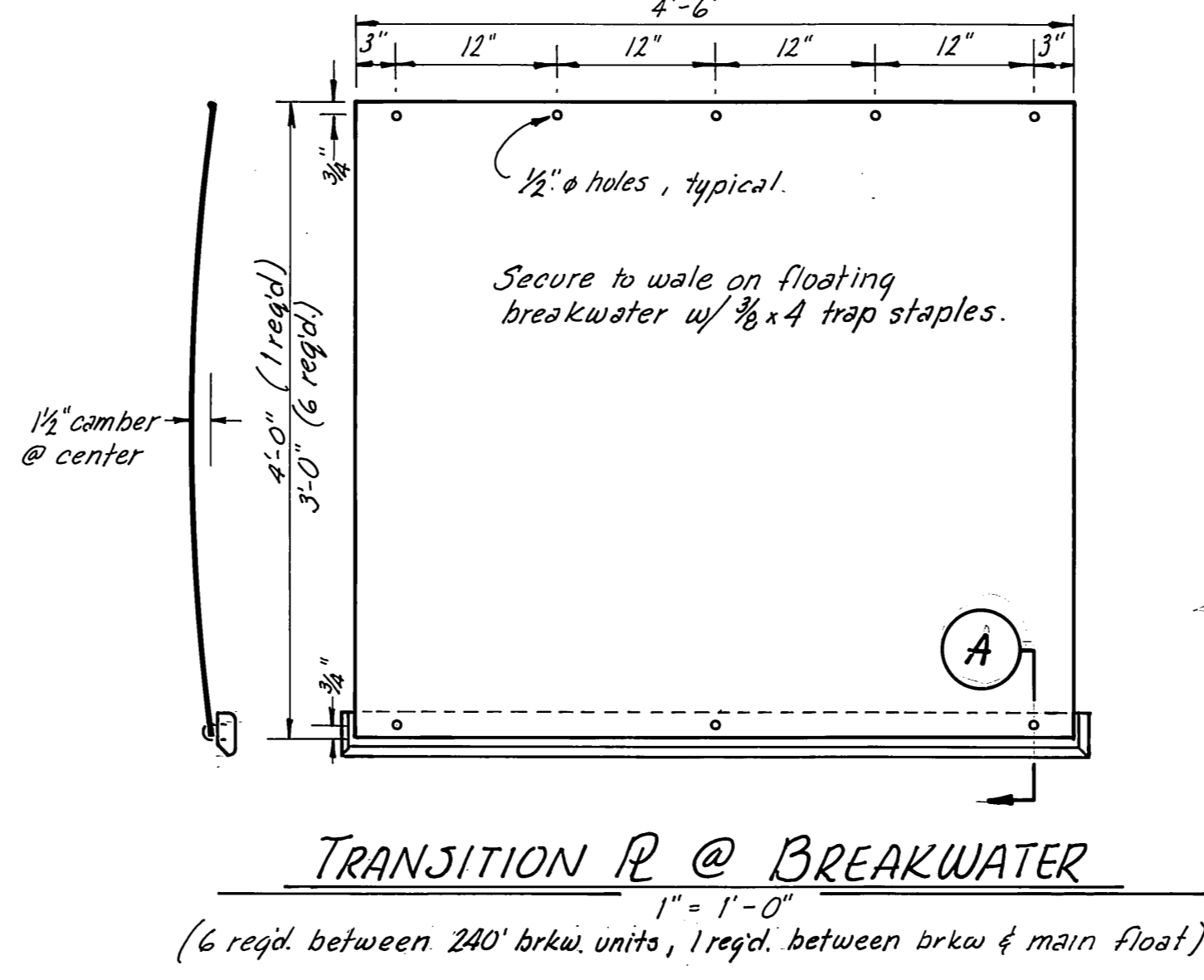
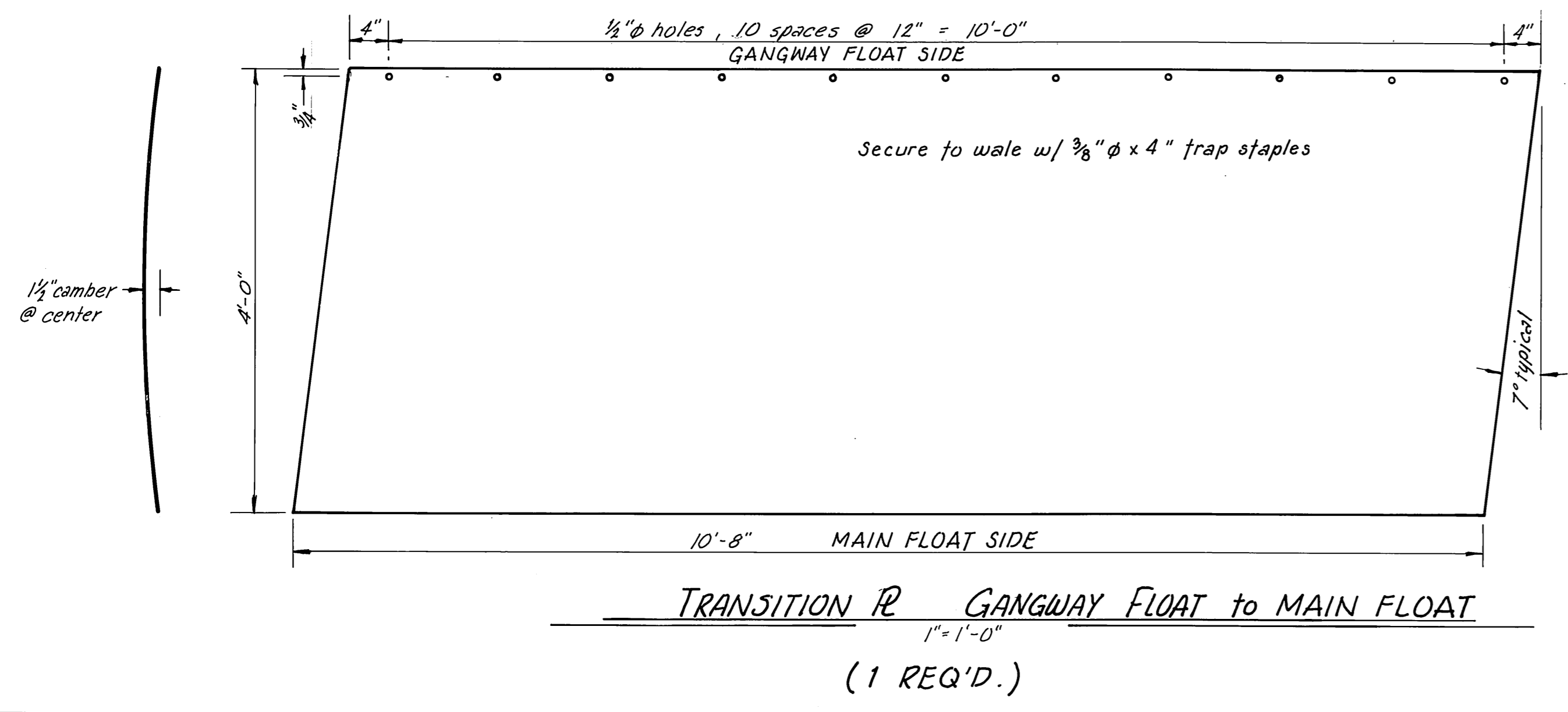
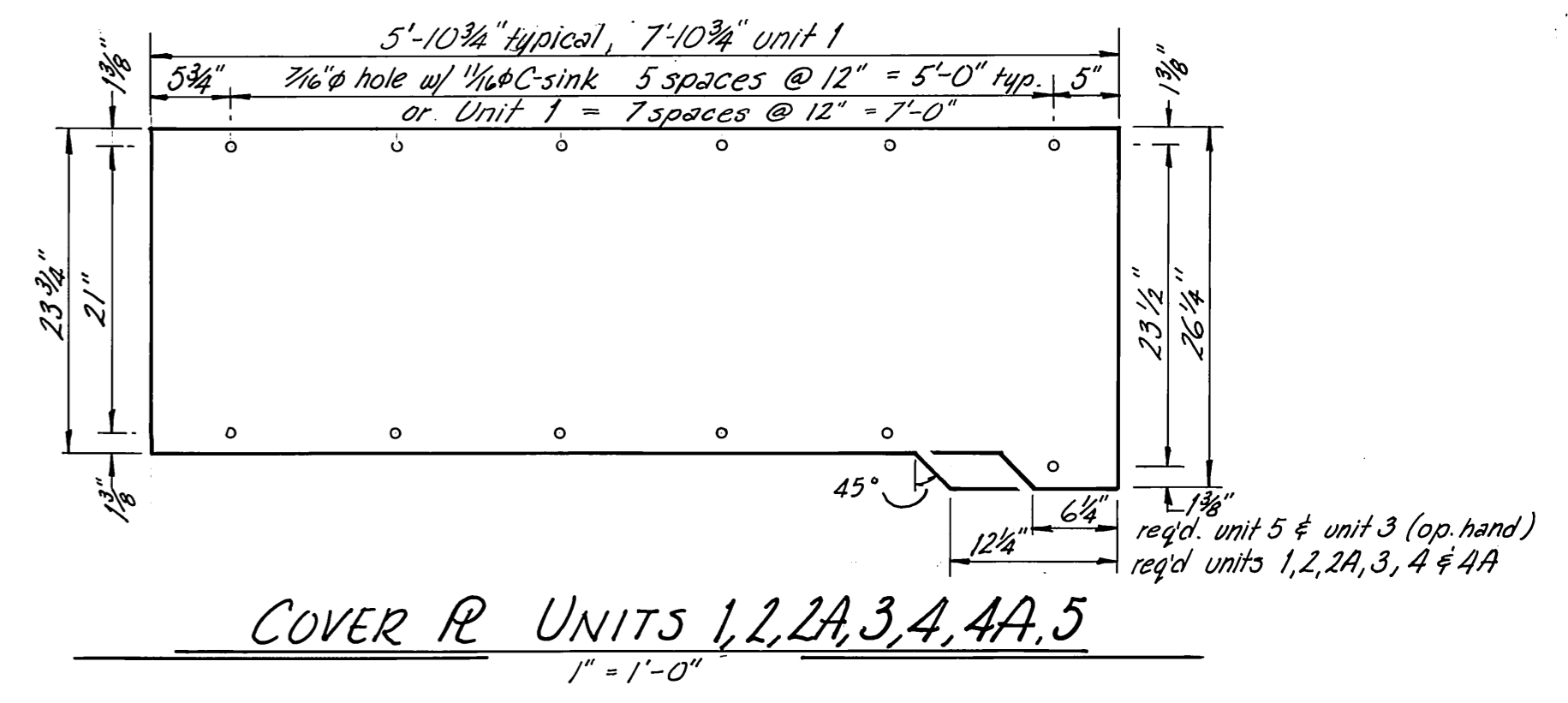
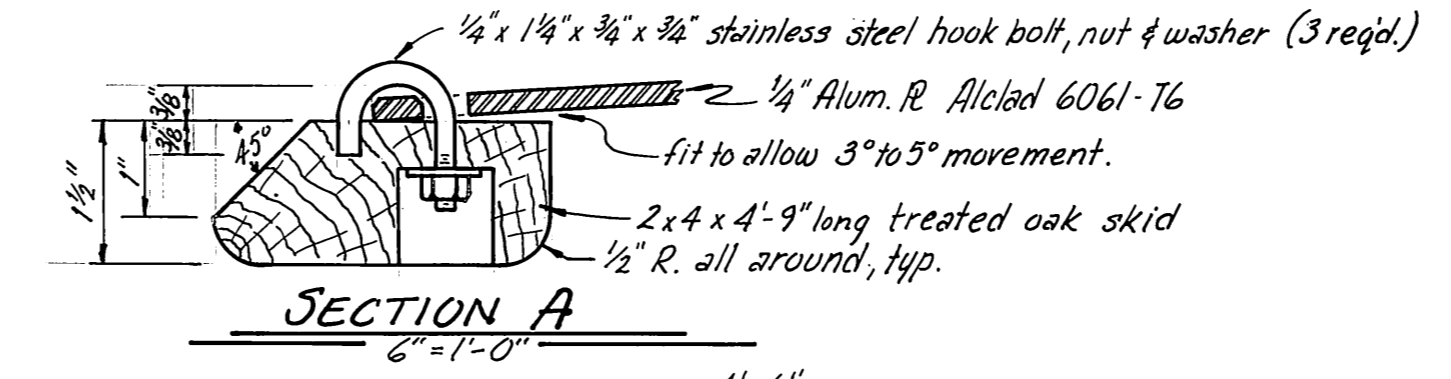
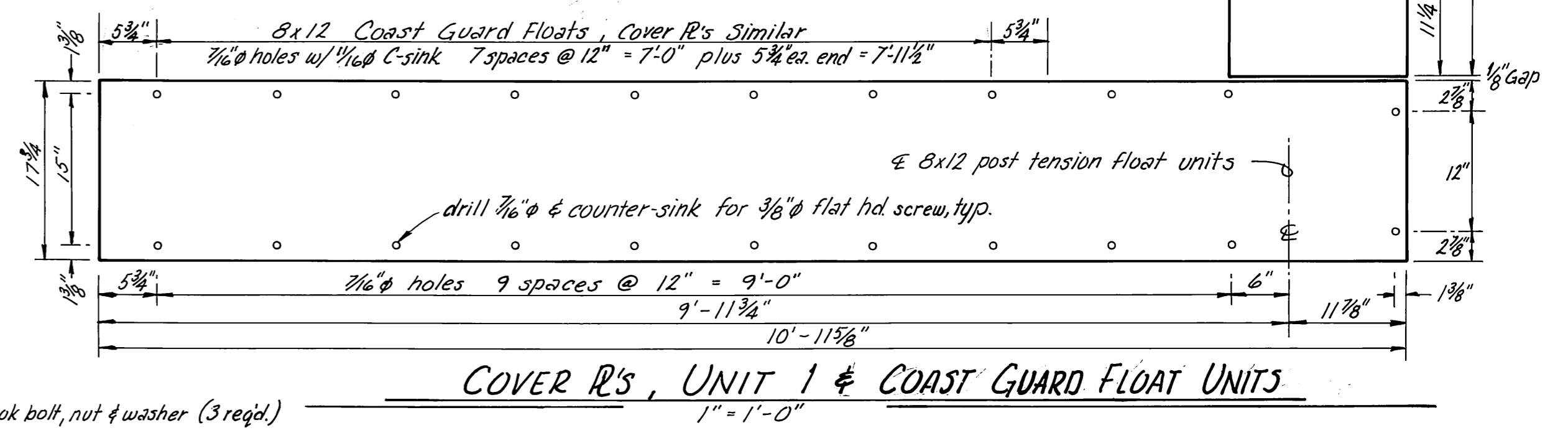
D-FENDER DETAILS

1" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska 8x8 TIE DOWN RAIL, D-FENDER, CORNER FENDER & MISC. DETAILS	
SCALE: As Shown	SURVEYED: _____	APPROVED: Robert P. Beck	
DESIGNED: _____	DRAWN: WJ		
CHECKED: JDB	DATE: 12/81		
PROJECT NUMBER: K 78180	SHEET 18 OF 41		

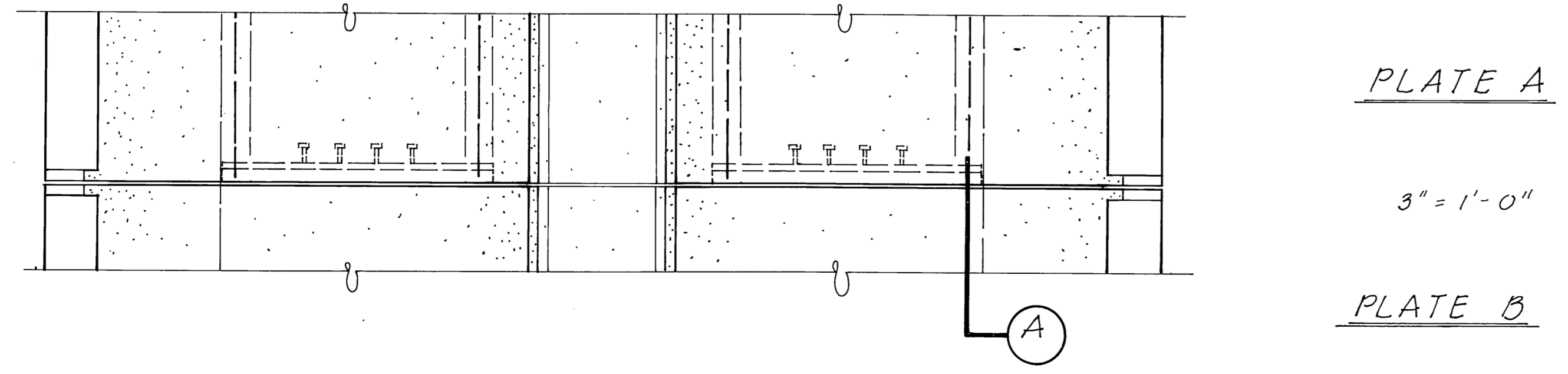
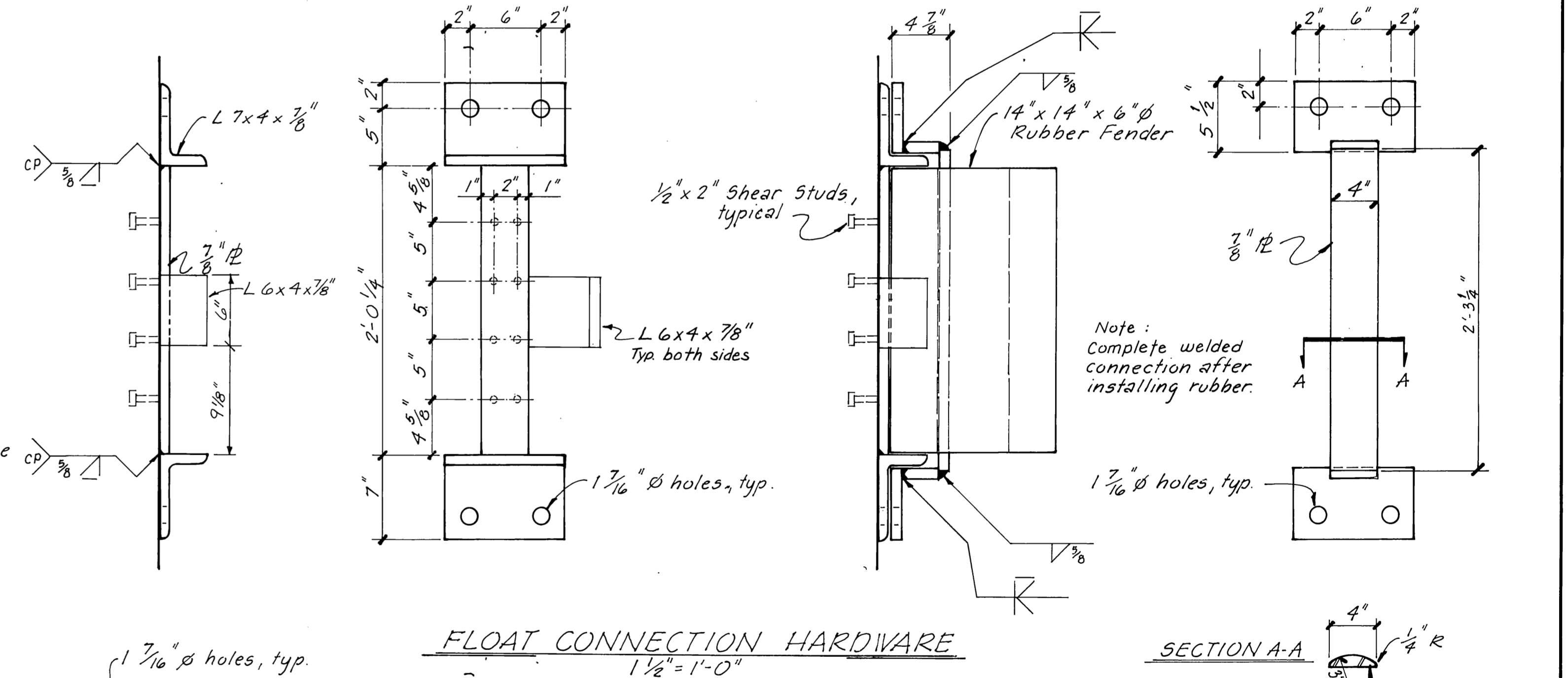
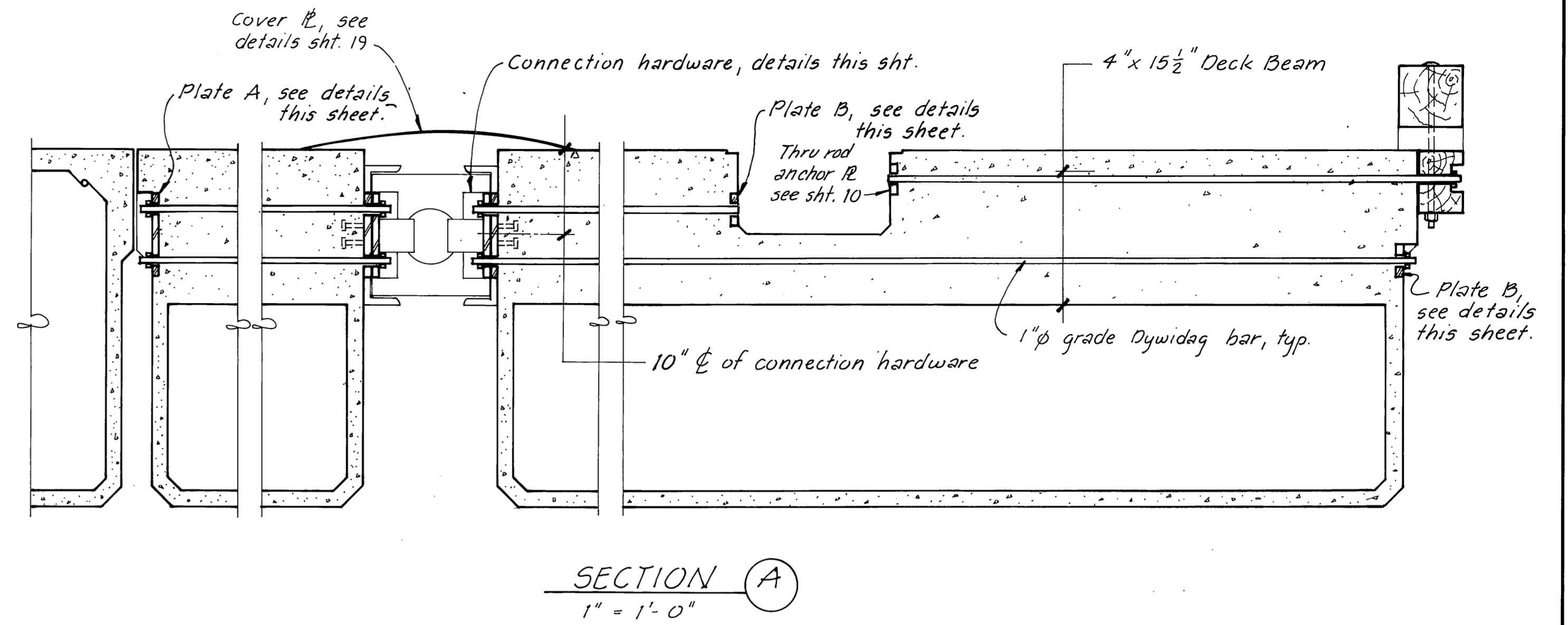
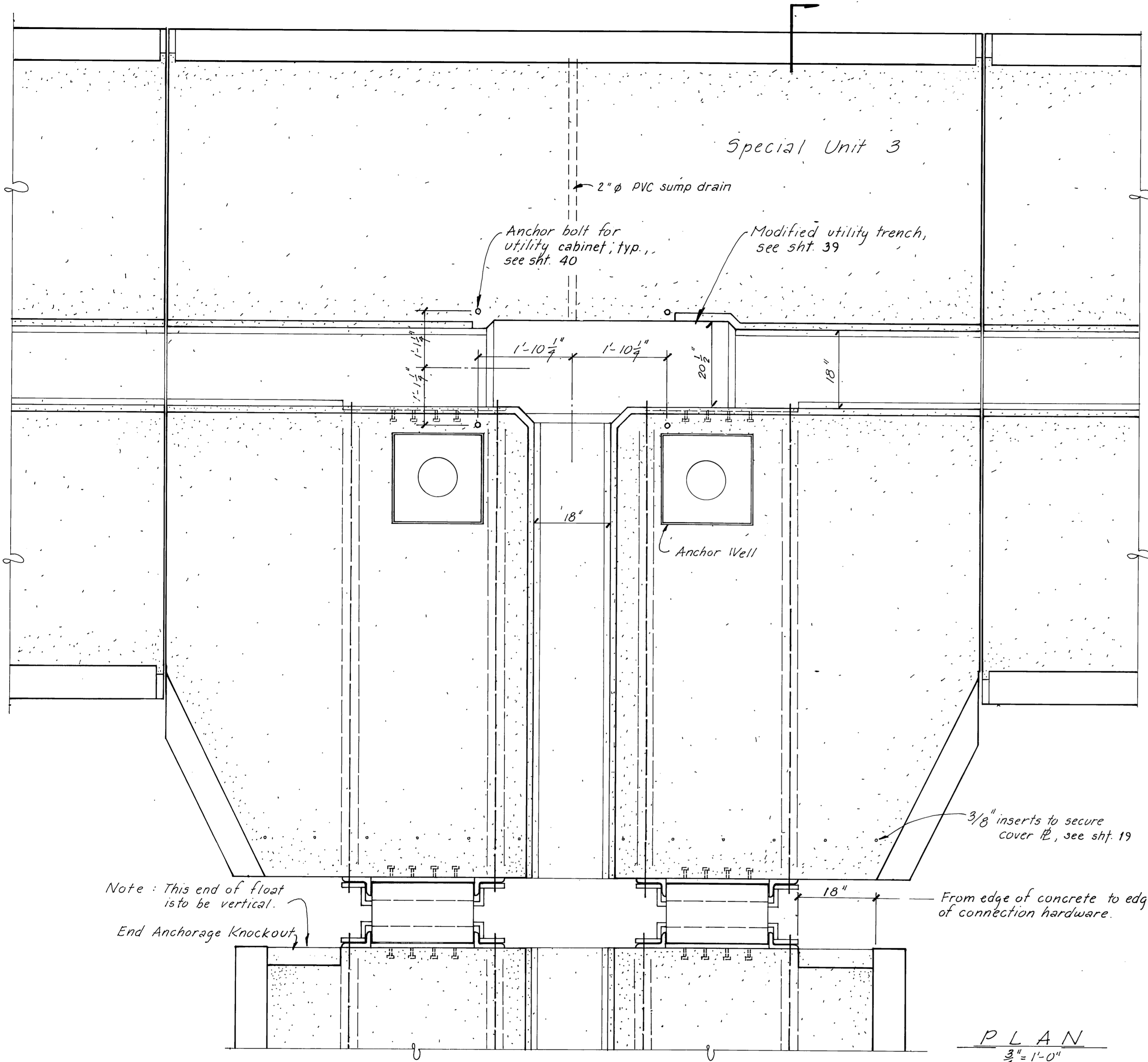


NOTES:
1. All cover R's and transition R's shall be 1/4" thick Alclad 6061 T6 w/ checker pattern slip resistant surface, typical. Secure cover R's w/ 3/8" stainless steel screws into inserts in concrete.



Handwritten notes and signatures.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
COVER R DETAILS New side		SCALE: 1" = 1'-0"	SURVEYED: _____
		DESIGNED: JDB	DRAWN: WIN
PROJECT NUMBER: K 78180		CHECKED: _____	DATE: 1/82
SHEET 17 OF 41		APPROVED: Robert P. Beck	



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
		FLOAT CONNECTION DETAILS	
SCALE As Shown	SURVEYED	APPROVED Robert P. Beck	
DESIGNED CB	DRAWN JTM		
CHECKED JB	DATE 12-81		
PROJECT NUMBER		SHEET 20 OF 41	

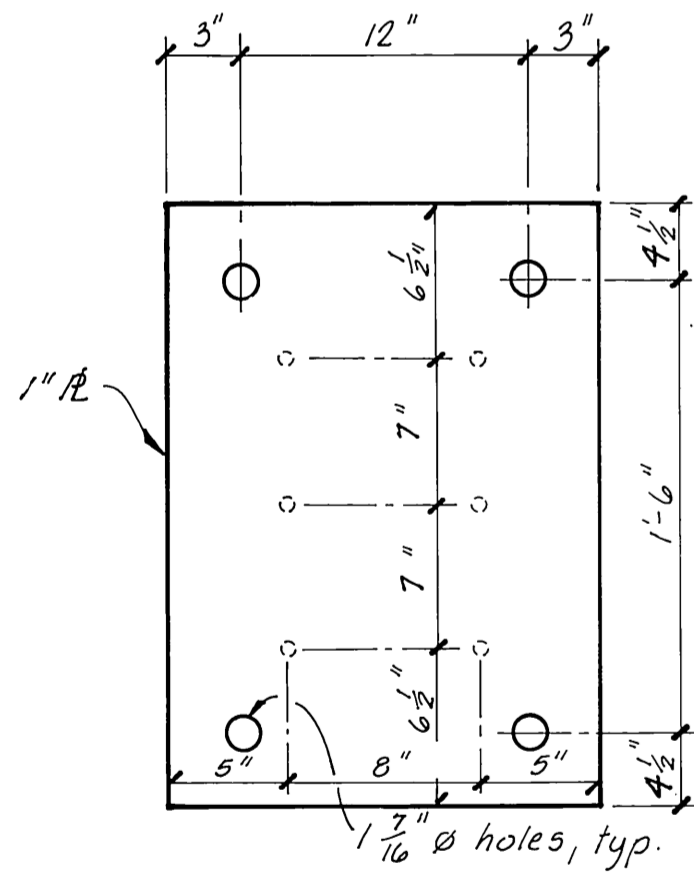
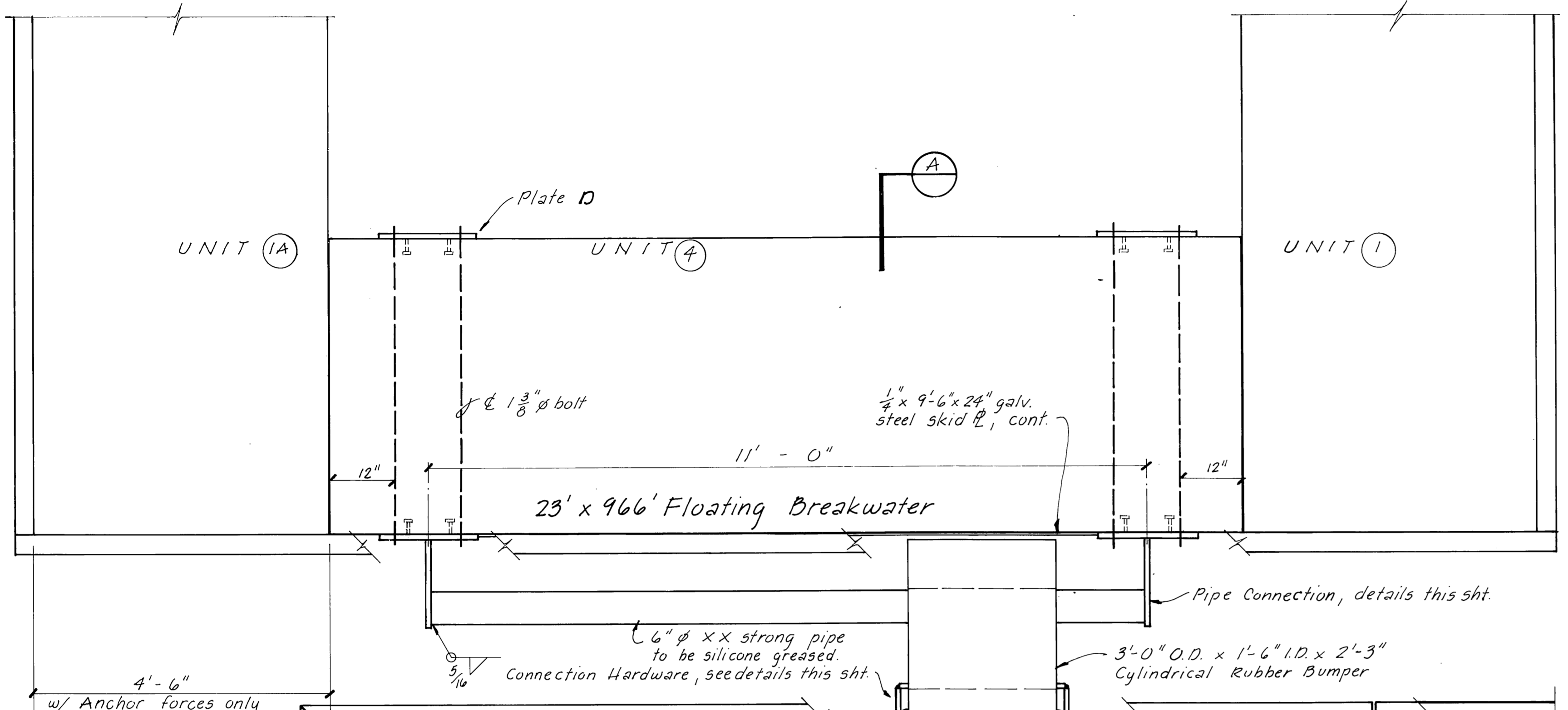
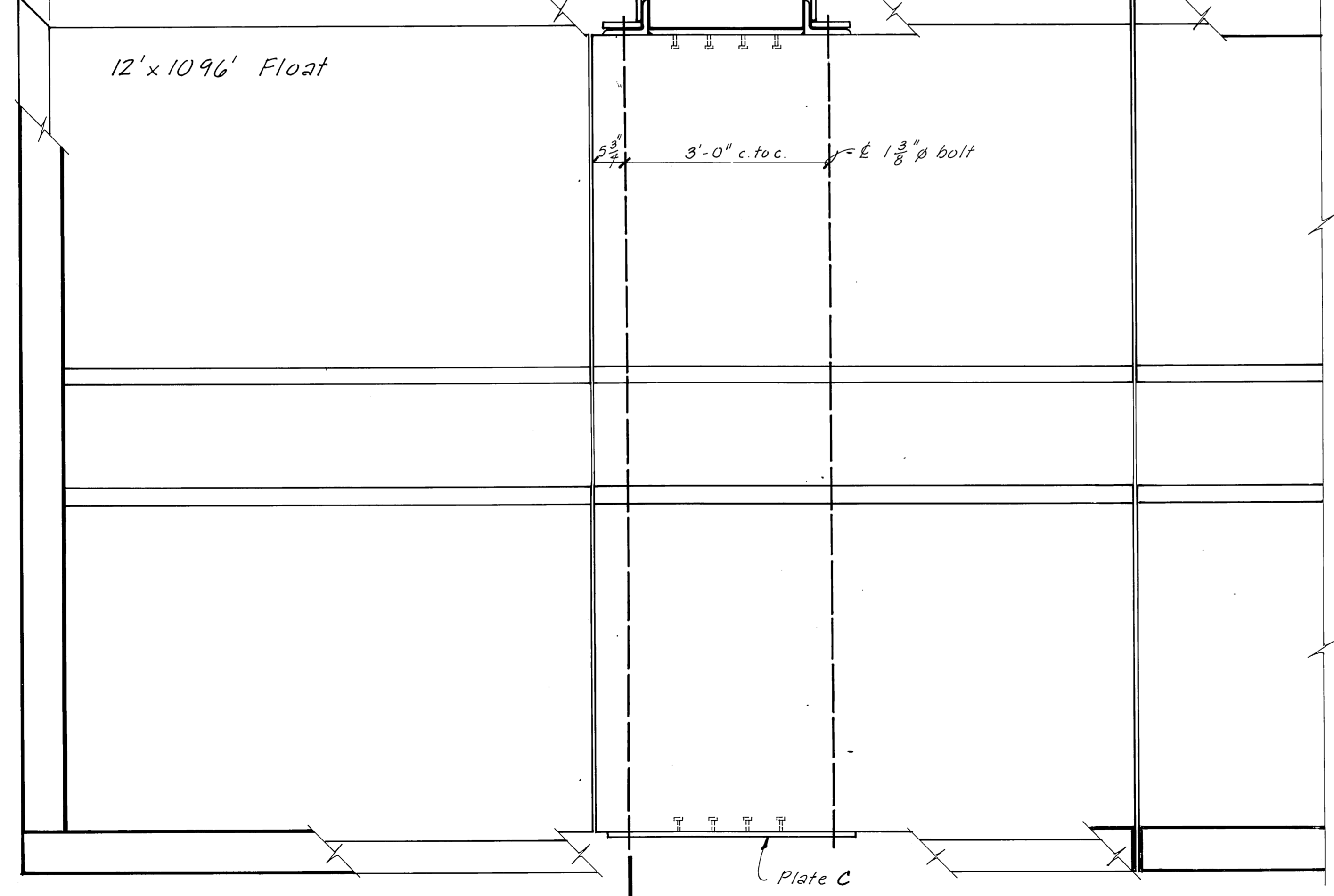


PLATE D
1 1/2" = 1'-0"



PLAN
3/4" = 1'-0"

PIPE CONNECTOR
1 1/2" = 1'-0"

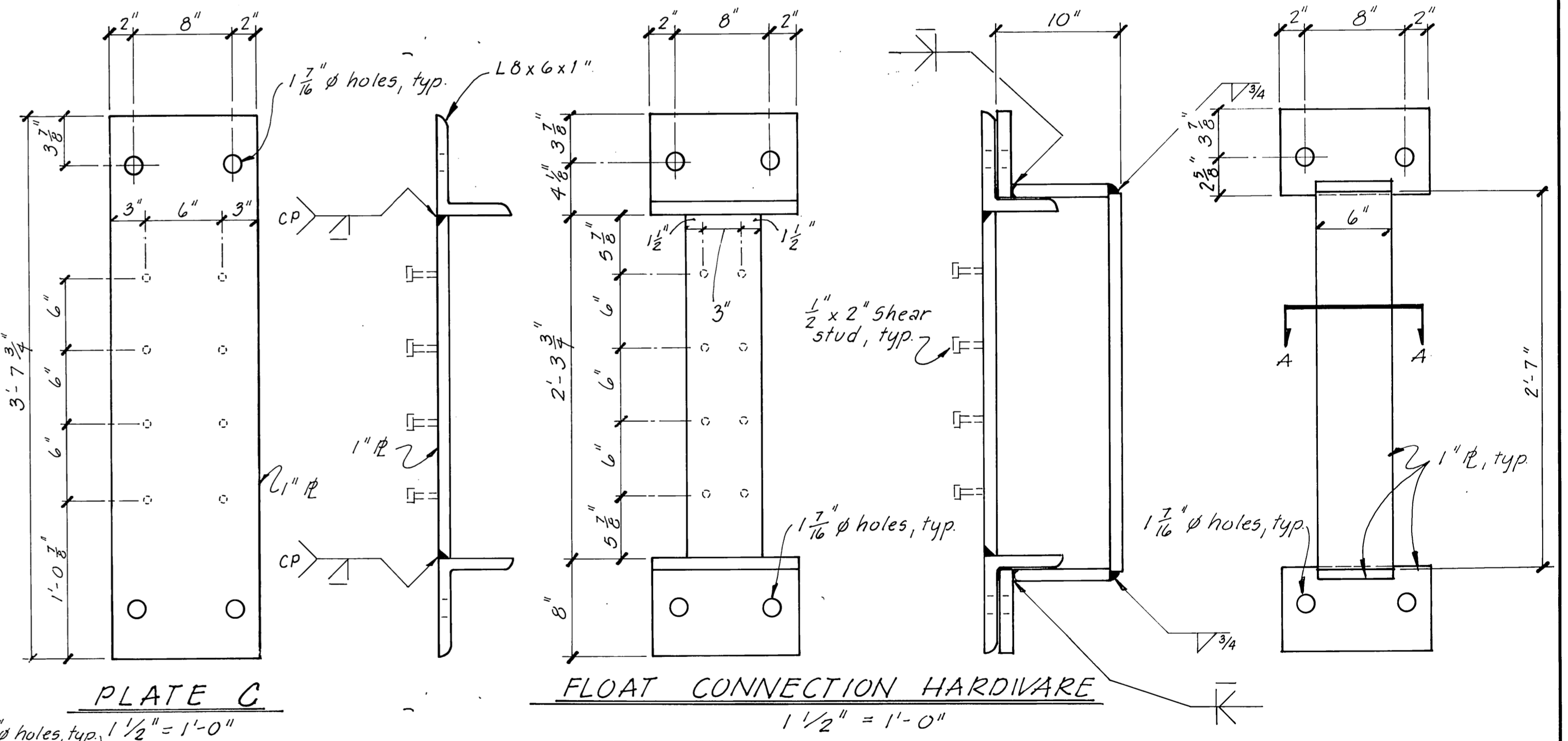
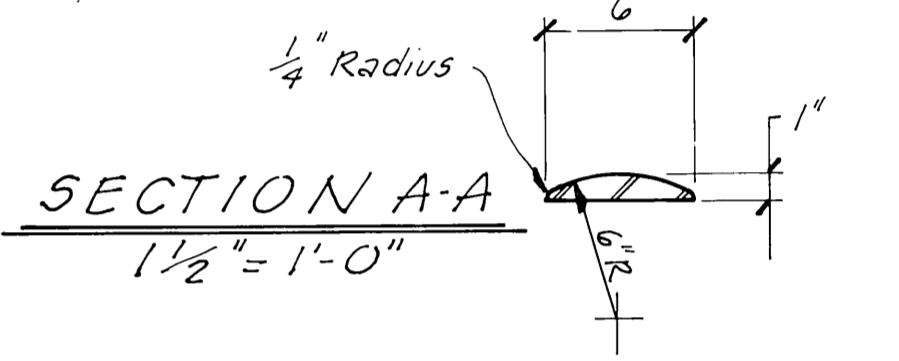
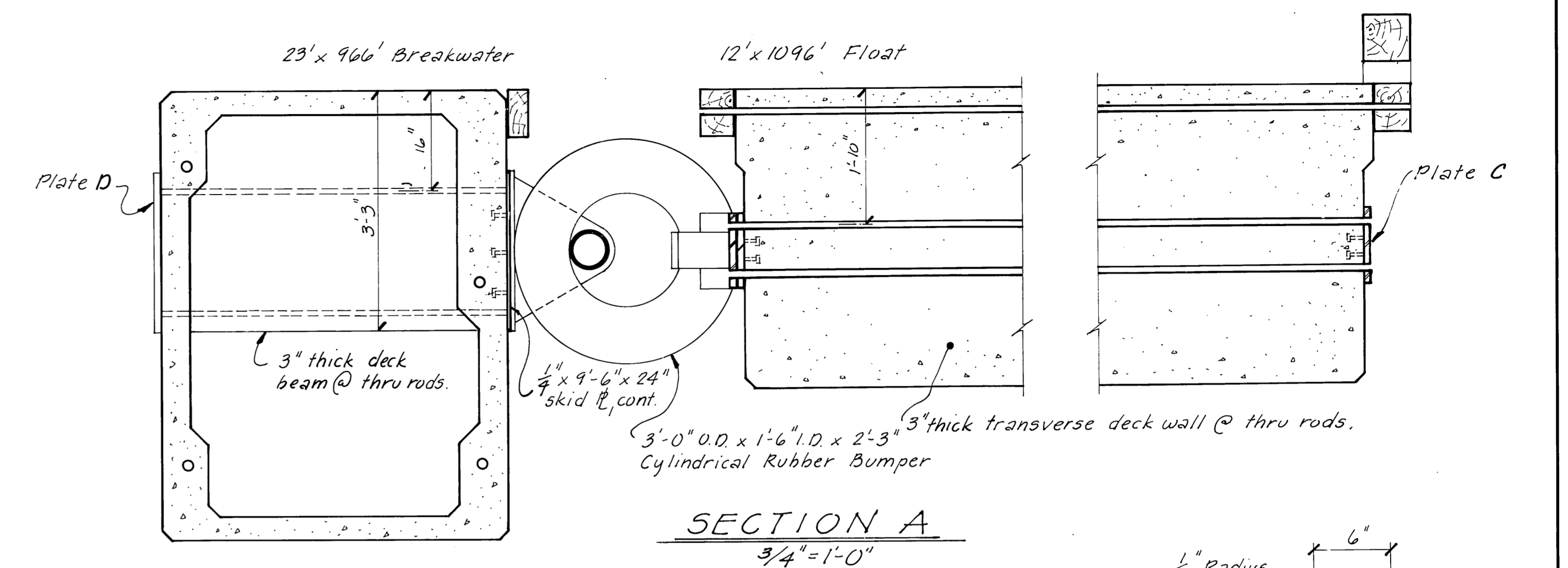
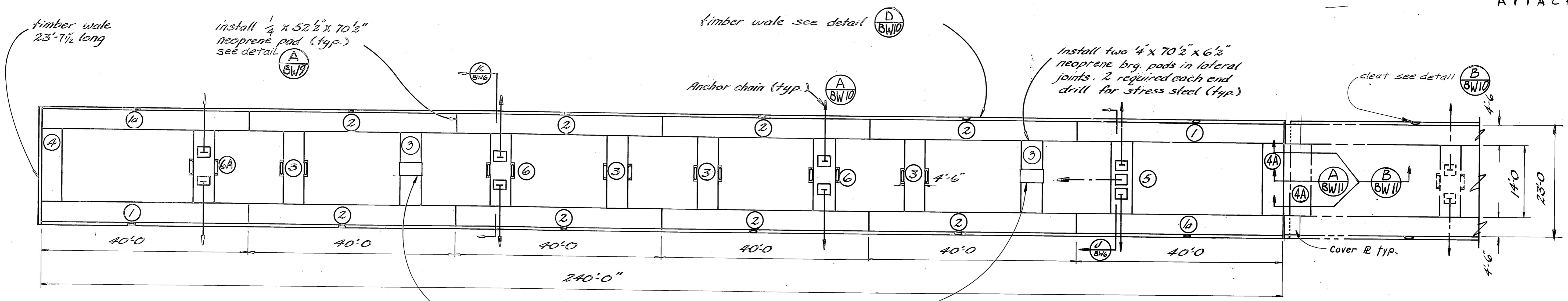


PLATE C
1 1/2" = 1'-0"

FLOAT CONNECTION HARDWARE
1 1/2" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
FLOAT TO BREAKWATER CONNECTION			
SCALE: As Noted	SURVEYED:	APPROVED: Robert P. Beck	
DESIGNED: HM/JB	DRAWN: JTM		
CHECKED:	DATE: 12.81		
PROJECT NUMBER: K78180	SHEET 21 OF 41		



Note: Location of light stand.
Provided by others.
Thru rods req'd, see (BW4)

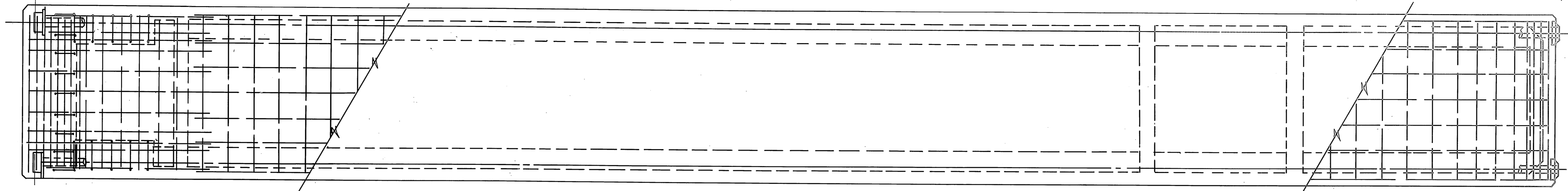
POST-TENSIONED BREAKWATER MODULE

SYMBOL KEY

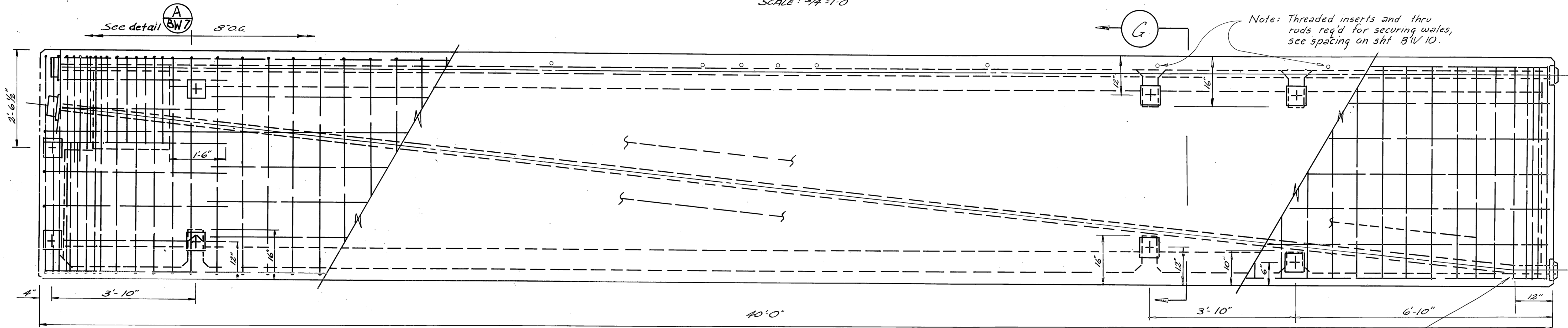
- Detail ———> (A) BW
- Page ———> (BW)
- Detail ———> (B)
- Page ———> (BW4)
- Float unit ———> (5)

BW 1

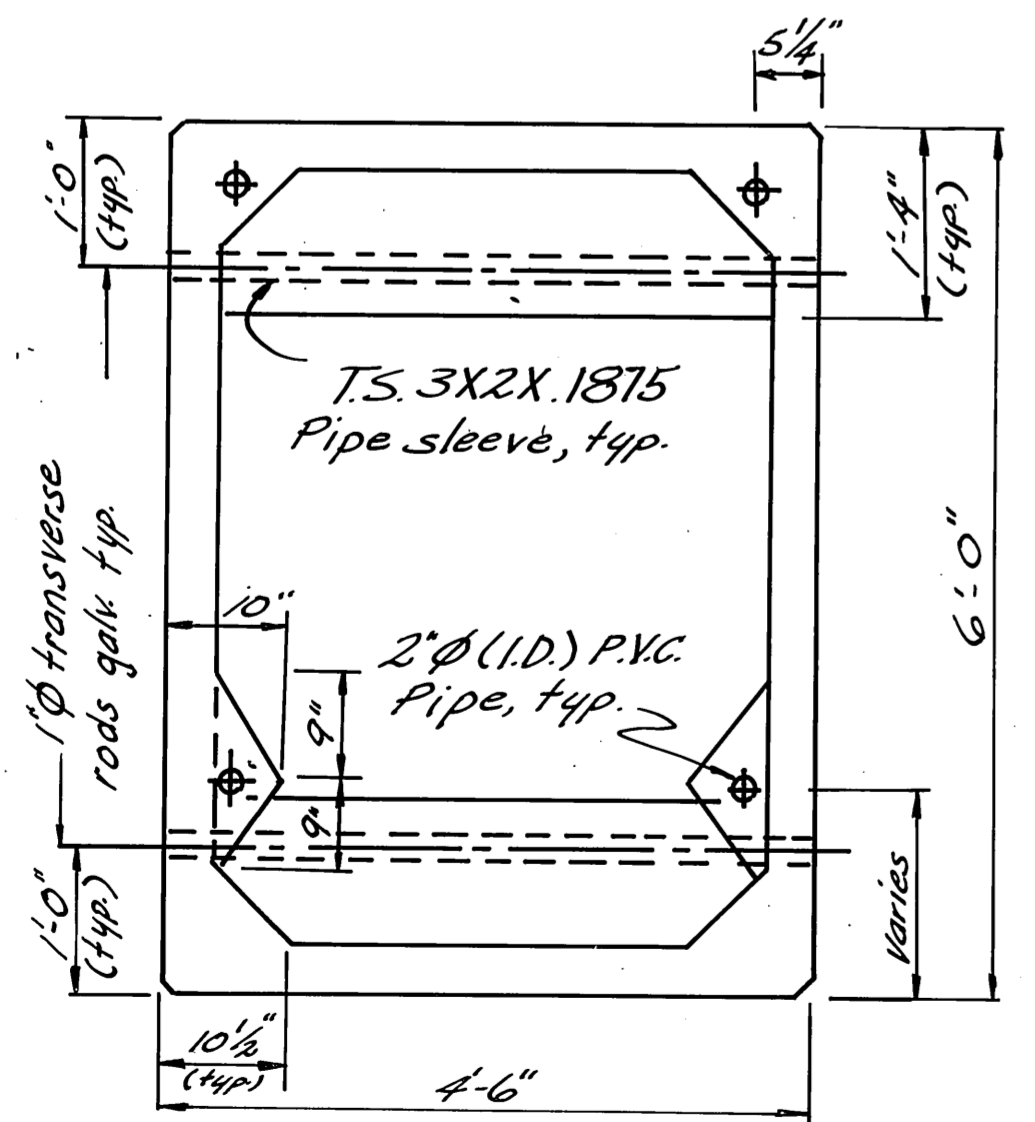
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		<u>BREAKWATER MODULE</u>	
SCALE 1" = 10'	SURVEYED	APPROVED	
DESIGNED	DRAWN <i>MAZ</i>	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE		
PROJECT NUMBER	SHEET 22 OF 41		



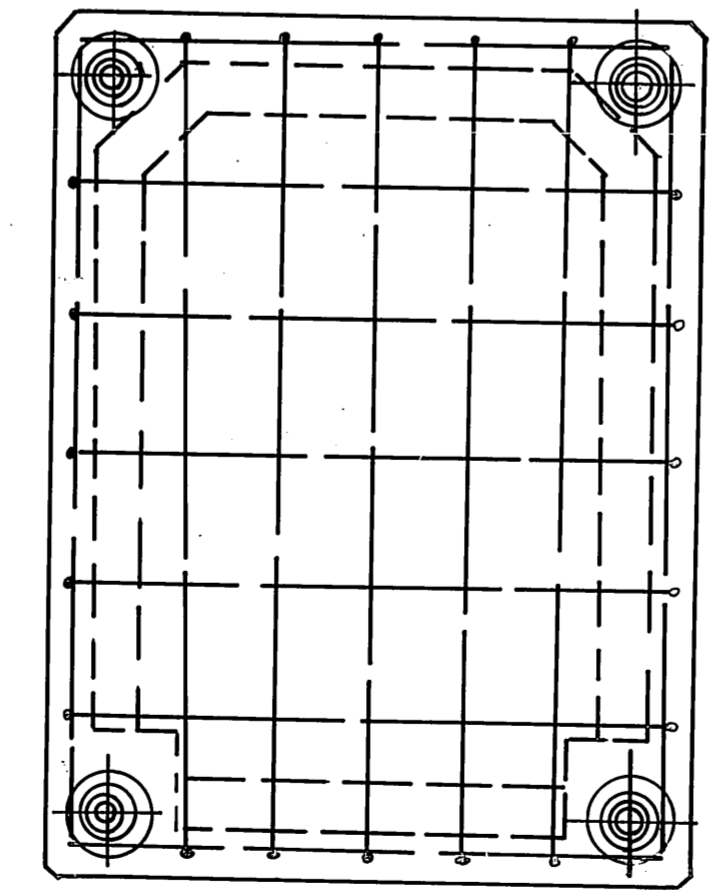
PLAN
SCALE: 3/4"=1'-0"



ELEVATION - UNIT 1 (UNIT 1A SIM.)
SCALE: 3/4"=1'-0"



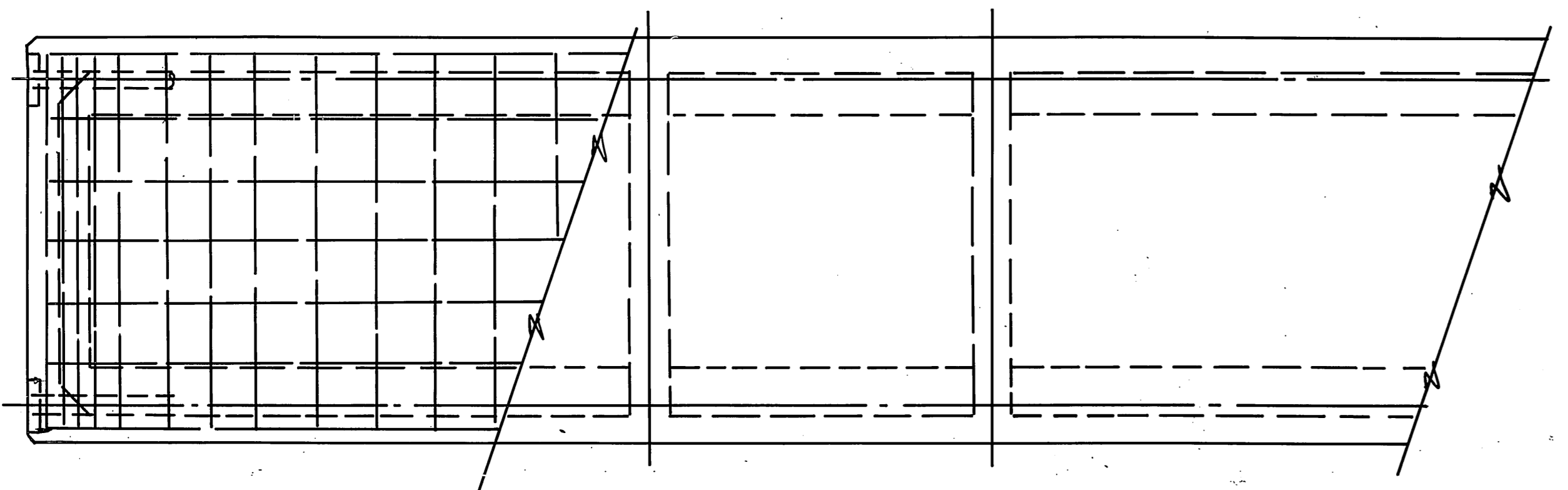
SECTION G
scale 3/4"=1'-0"



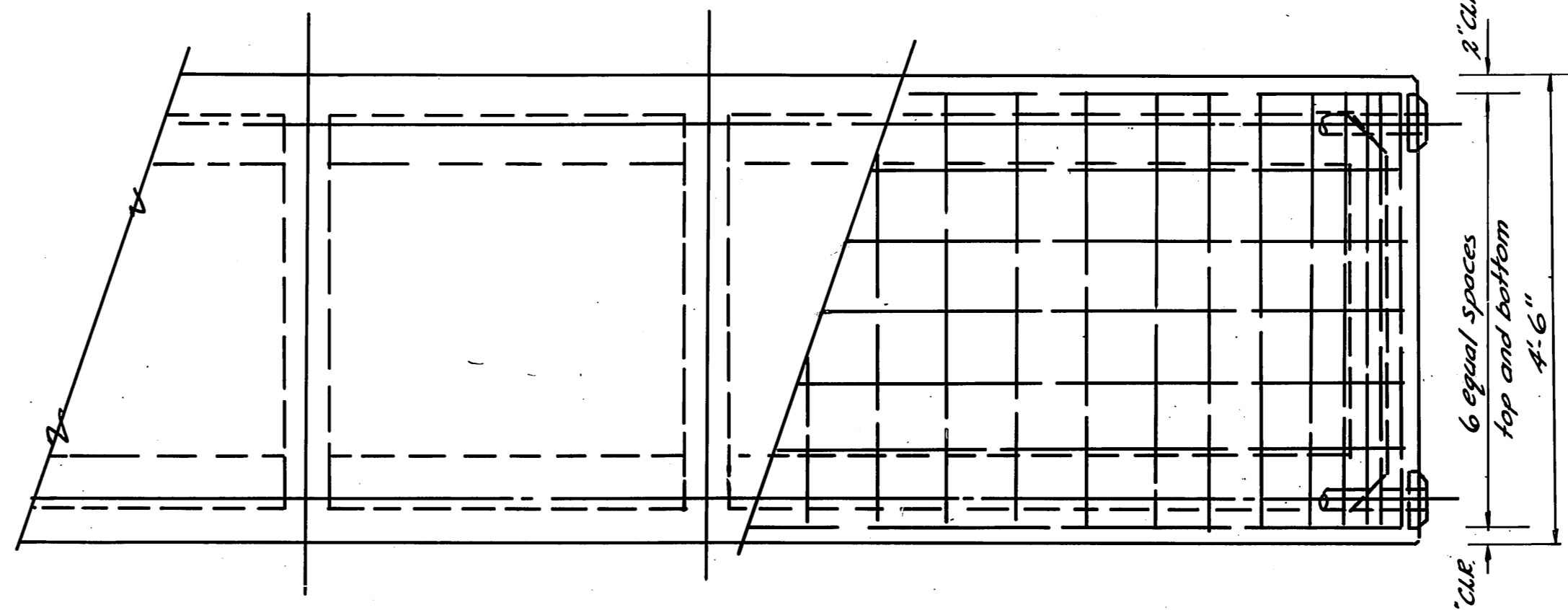
END ELEV.

BW 2

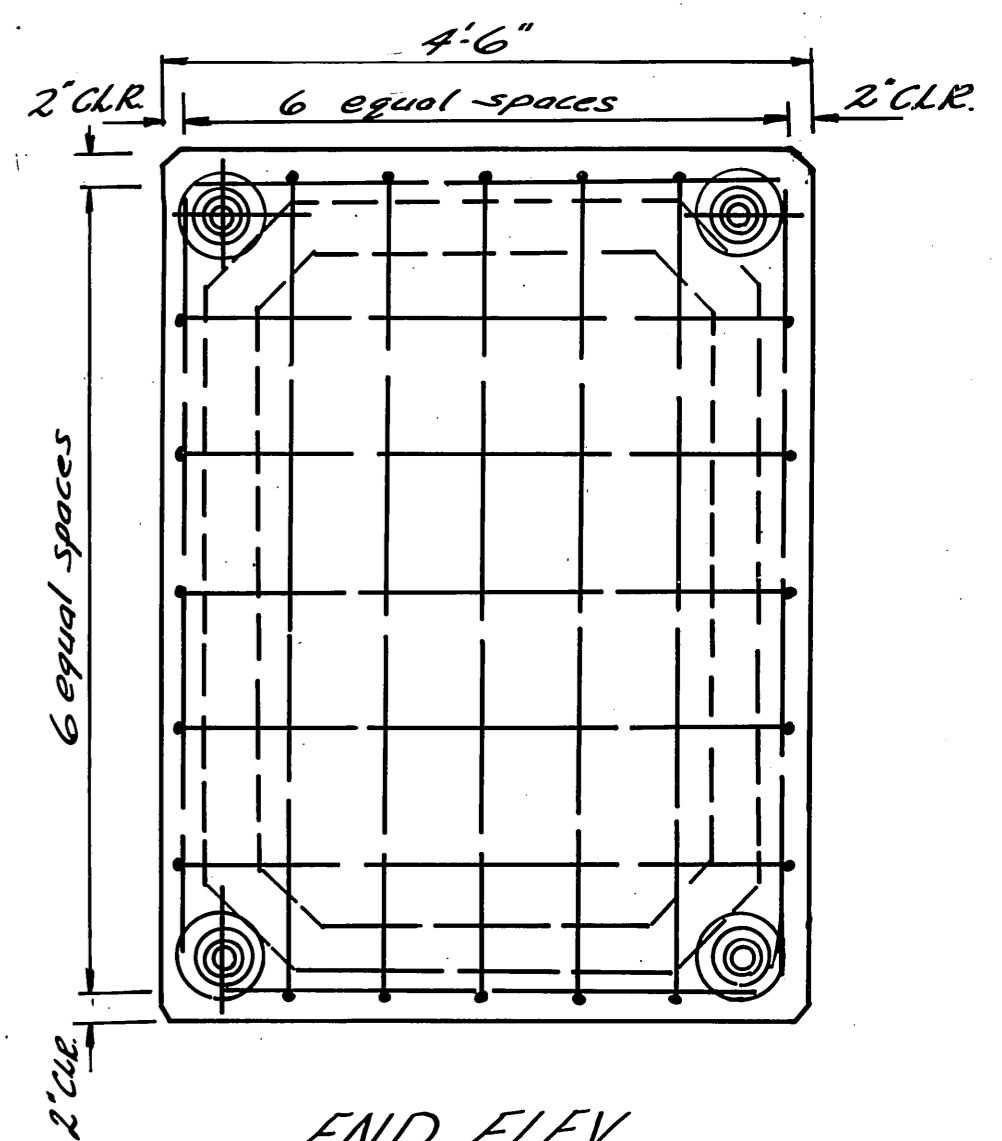
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		UNIT 1 (A)	
SCALE _____	SURVEYED _____	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED _____	DRAWN _____		
CHECKED _____	DATE _____		
PROJECT NUMBER _____	SHEET 23 OF 41		



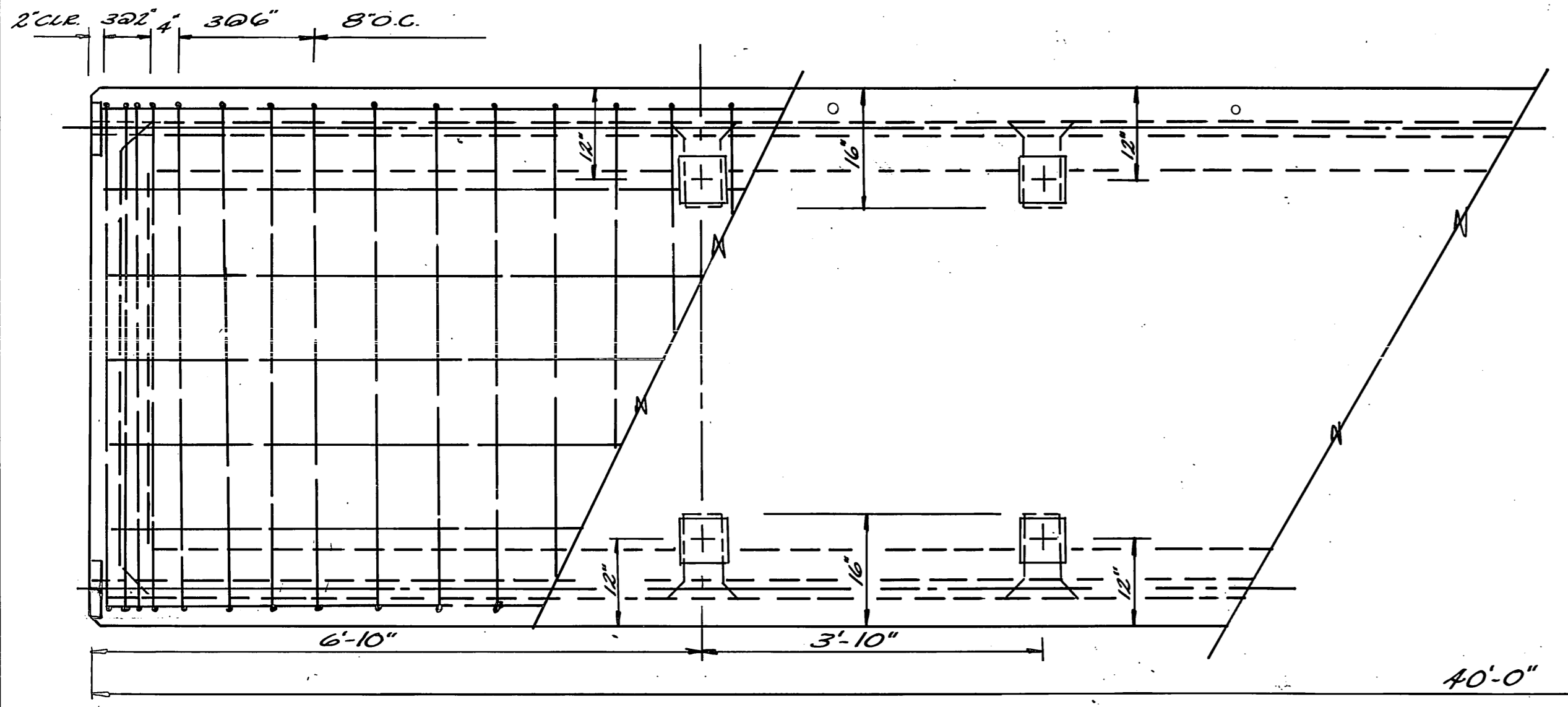
PLAN
SCALE: 3/4" = 1'-0"



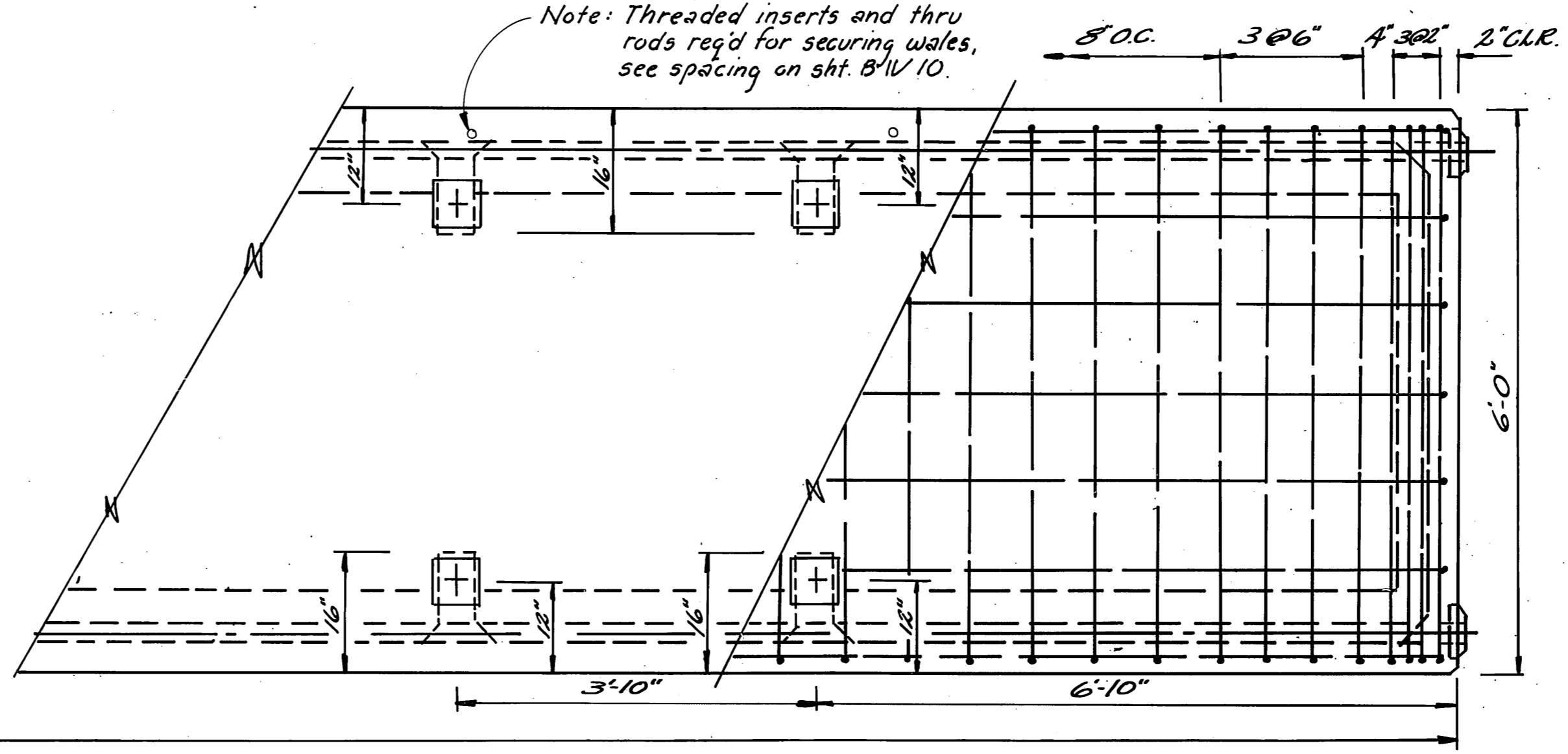
2" CLR.
6 equal spaces
4'-6"
2" CLR.



END ELEV.



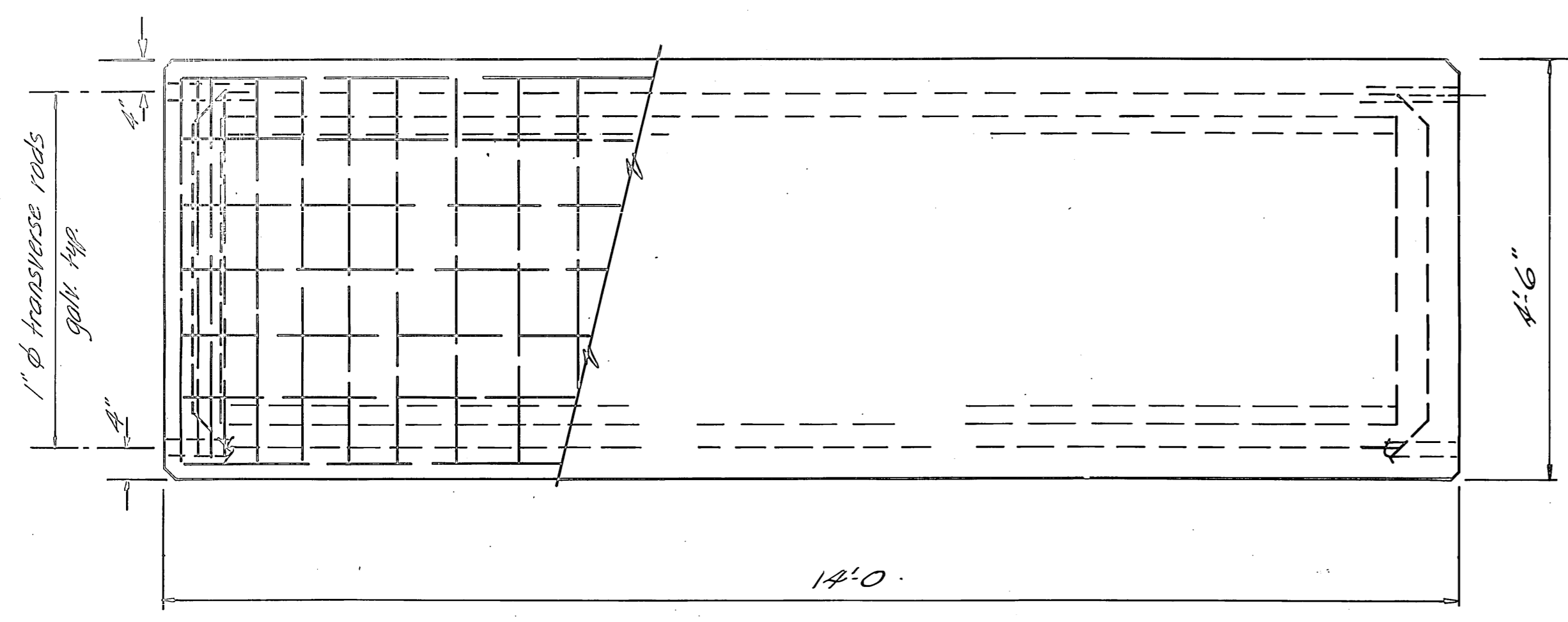
ELEVATION UNIT 2
SCALE: 3/4" = 1'-0"



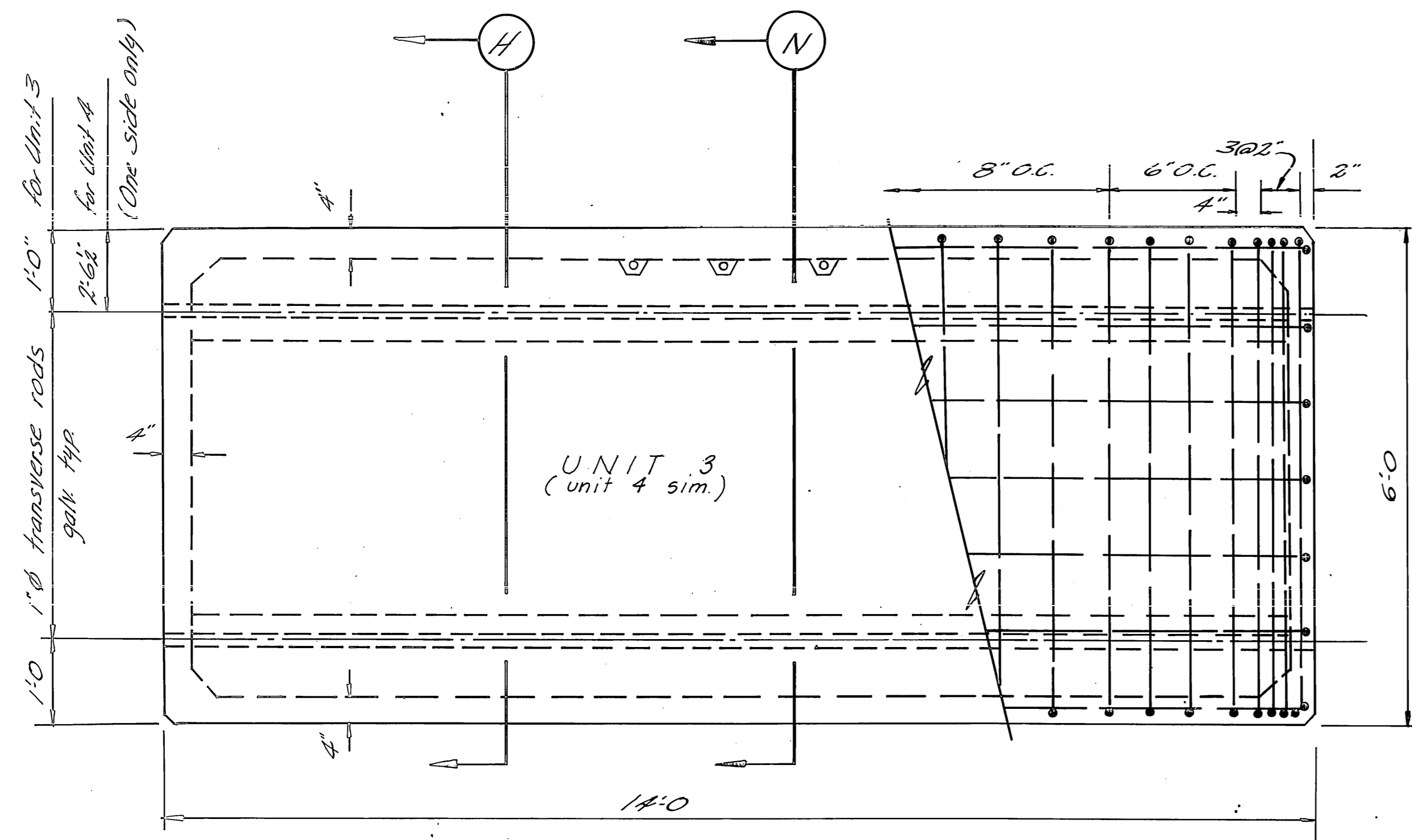
Note: Threaded inserts and thru rods req'd for securing wales, see spacing on sht. B'11/10.

BW 3

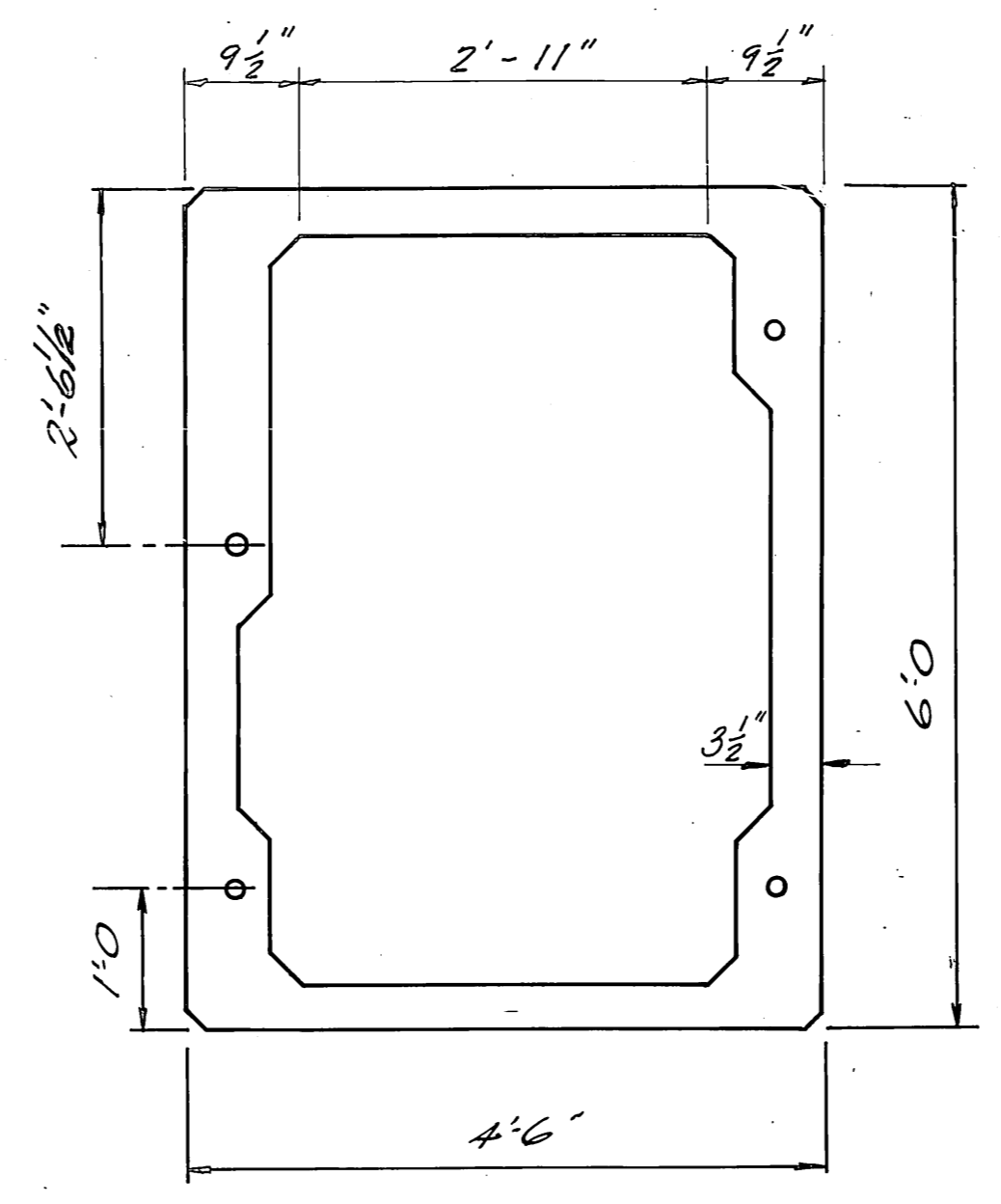
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		<u>UNIT 2</u>	
SCALE _____	SURVEYED _____	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED _____	DRAWN _____		
CHECKED _____	DATE _____		
PROJECT NUMBER _____	SHEET <u>29</u> OF <u>41</u>		



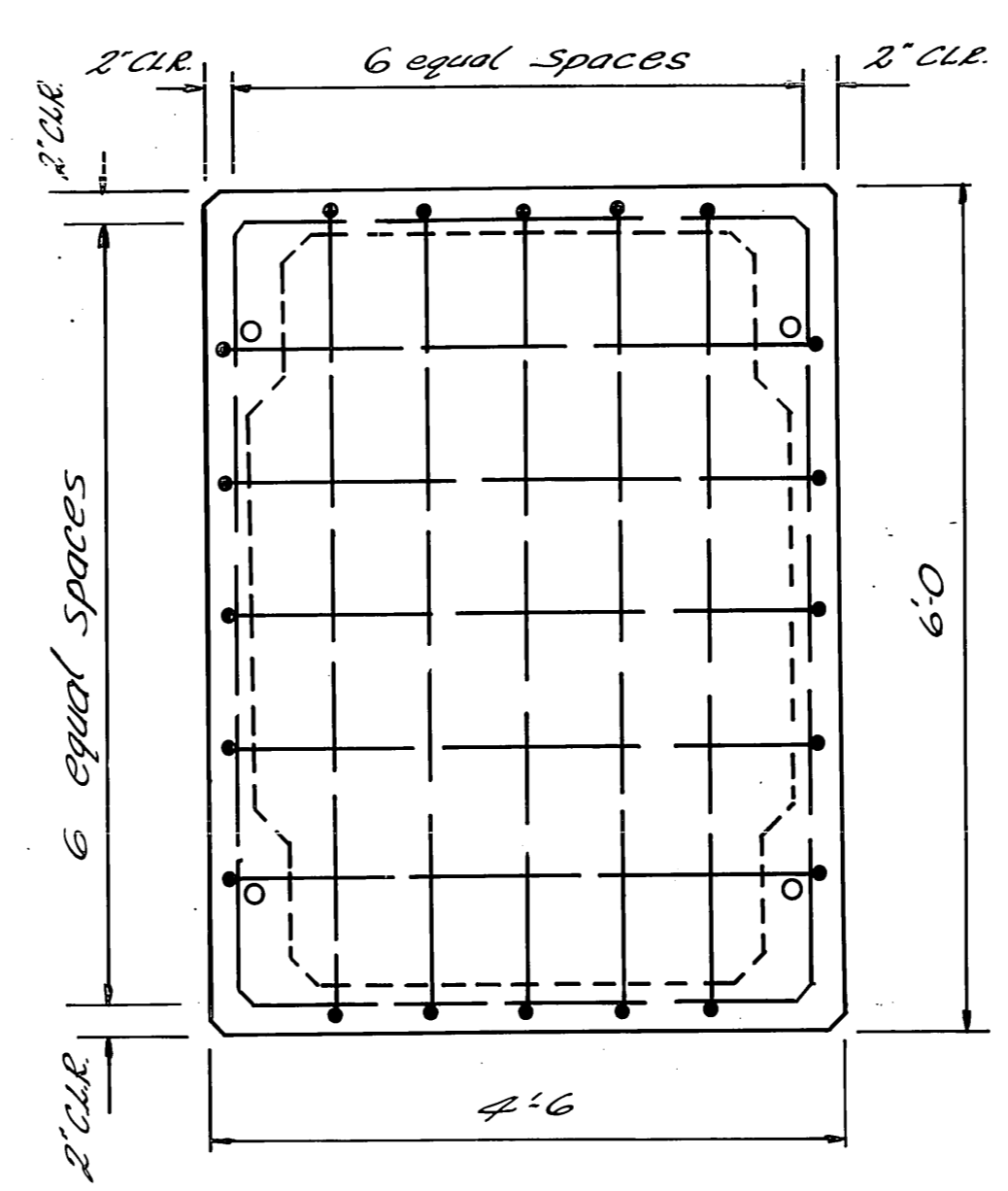
~ PLAN UNIT 4 (UNIT 3 SIM.) ~
SCALE: 3/4" = 1'-0"



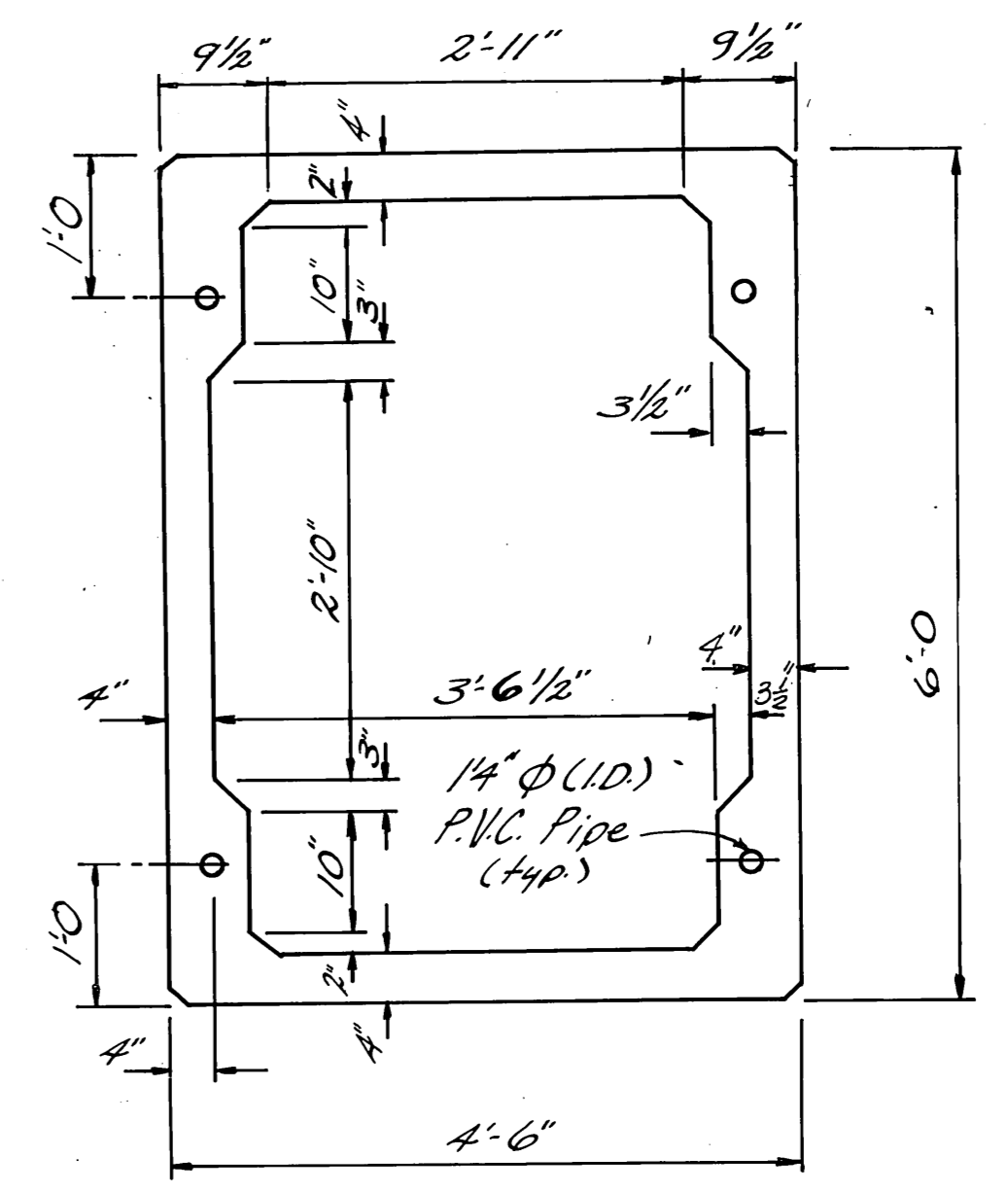
~ ELEVATION - TRANSVERSE UNITS ~
SCALE: 3/4" = 1'-0"



~ SECTION N (Unit 4 Only) ~
SCALE: 3/4" = 1'-0"



~ END ELEVATION ~
SCALE: 3/4" = 1'-0"

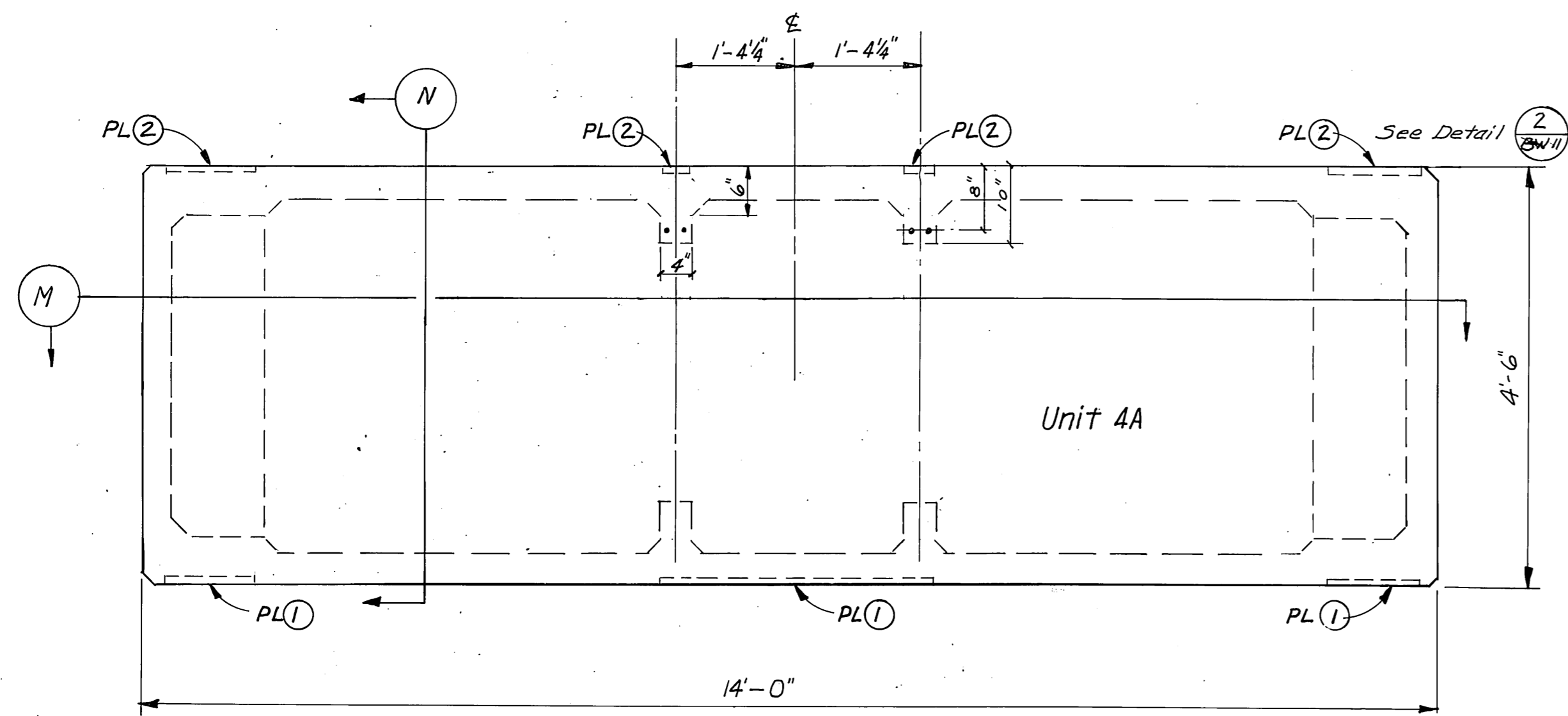


~ SECTION H ~
SCALE: 3/4" = 1'-0"

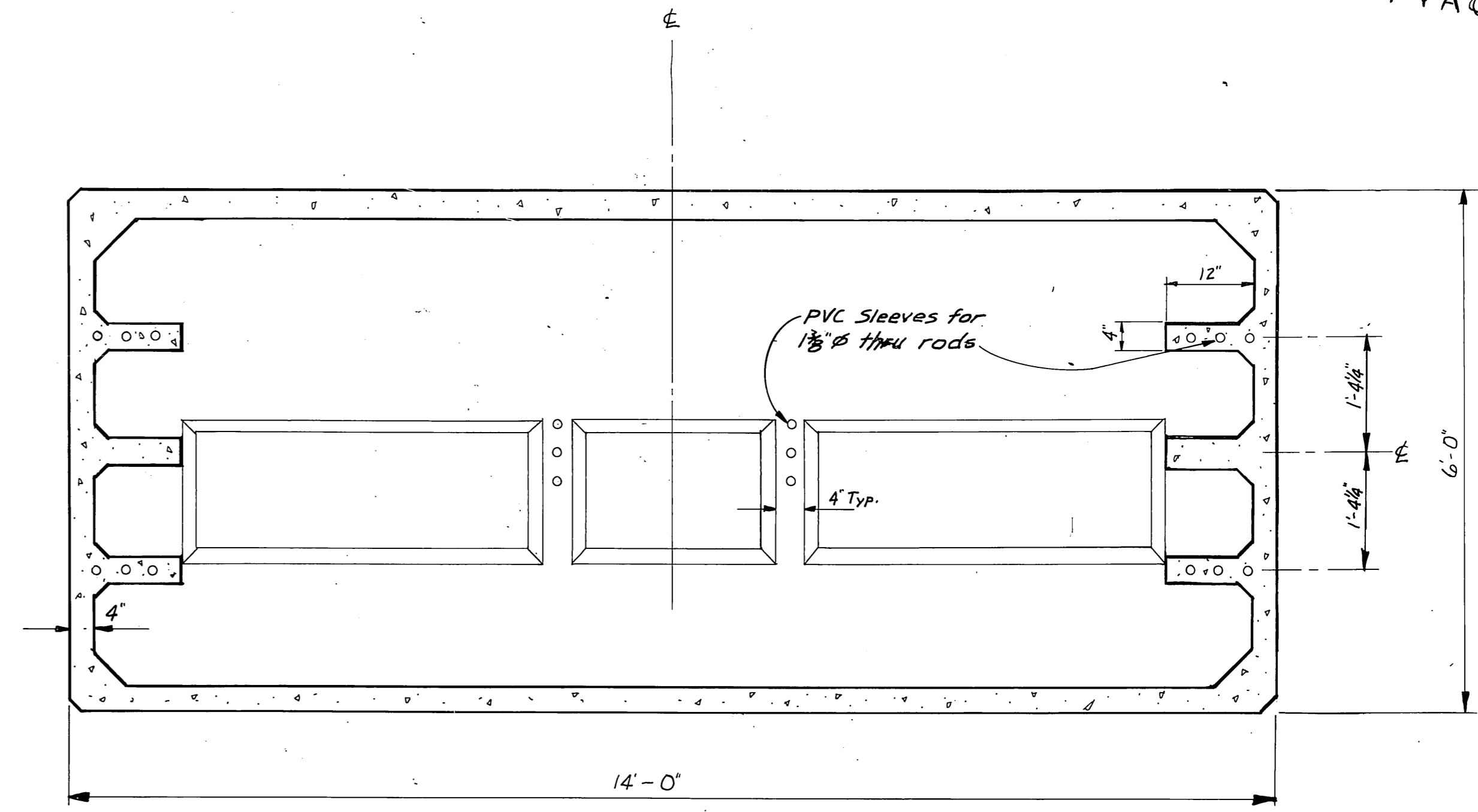
Note: 1) 120 lb. concrete to be used for uniform flotation on unit 4.
2) Unit 4 at connection to 12 x 1096 main float to include connection hardware, see details sht.

BW 4

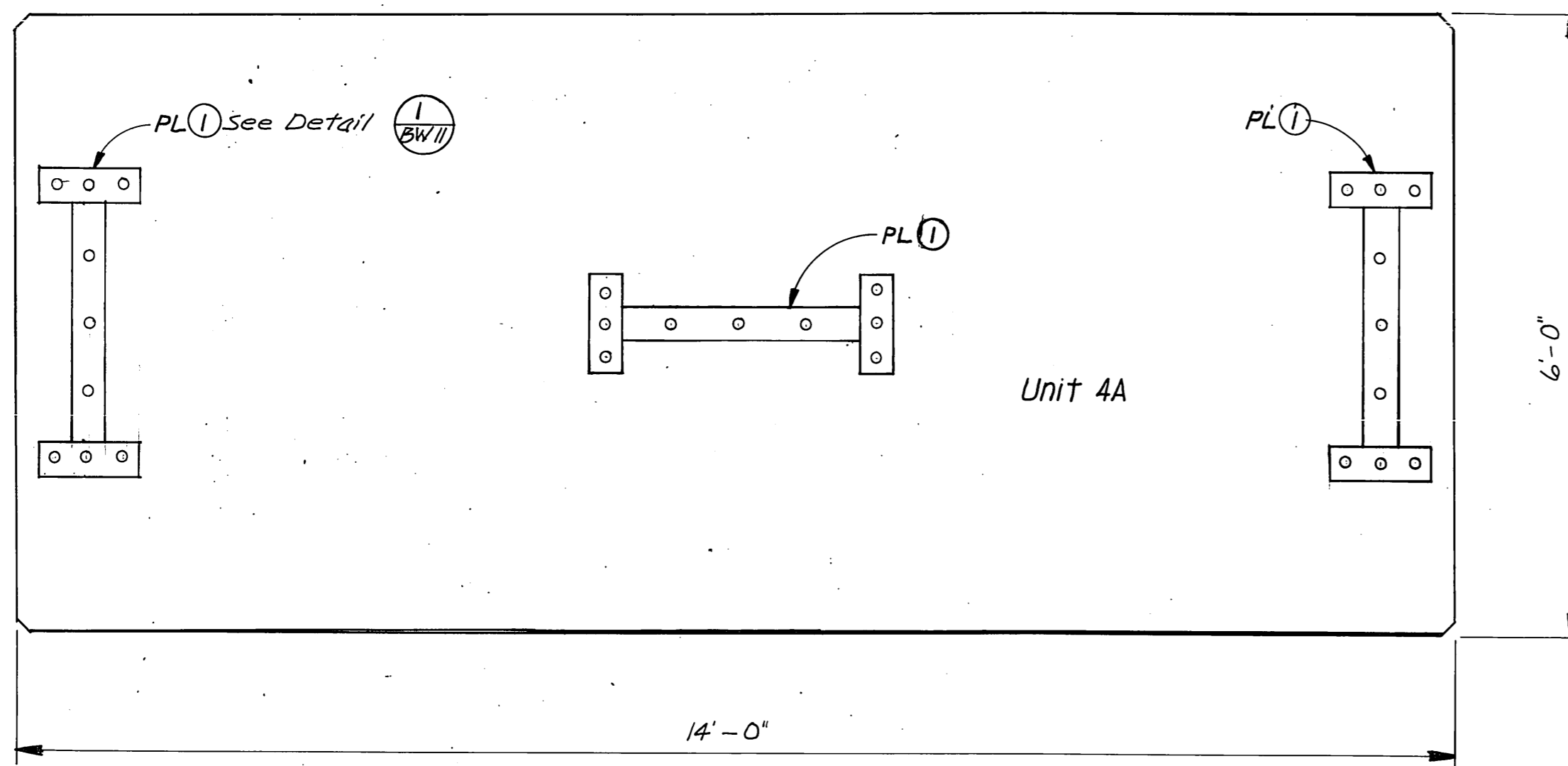
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		<p><u>TRANSVERSE UNITS 3-4</u></p>	
SCALE _____	SURVEYED _____	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED _____	DRAWN MAT		
CHECKED _____	DATE _____		
PROJECT NUMBER _____	SHEET 25 OF 41		



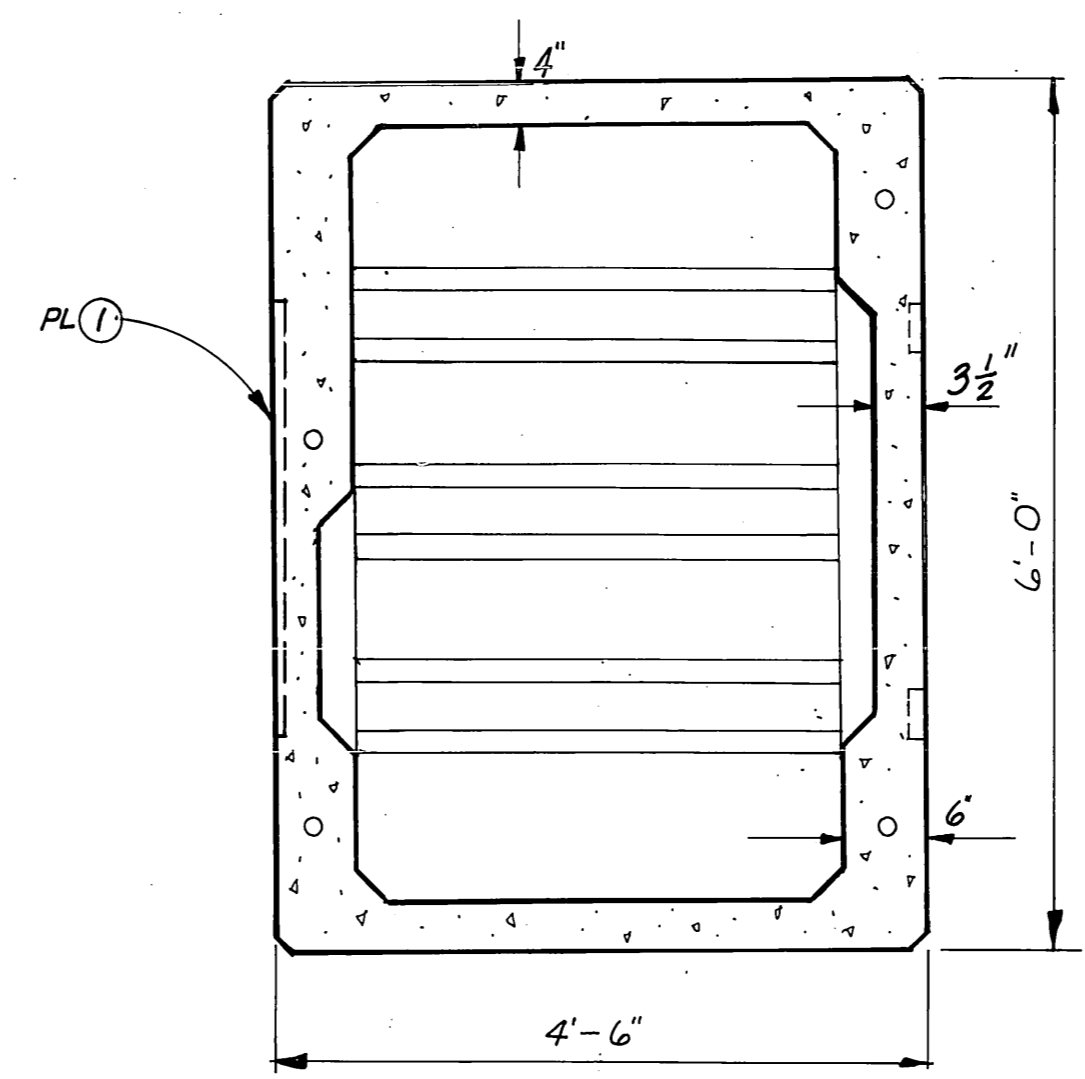
PLAN
3/4" = 1'-0"



SECTION M
3/4" = 1'-0"



ELEVATION
3/4" = 1'-0"

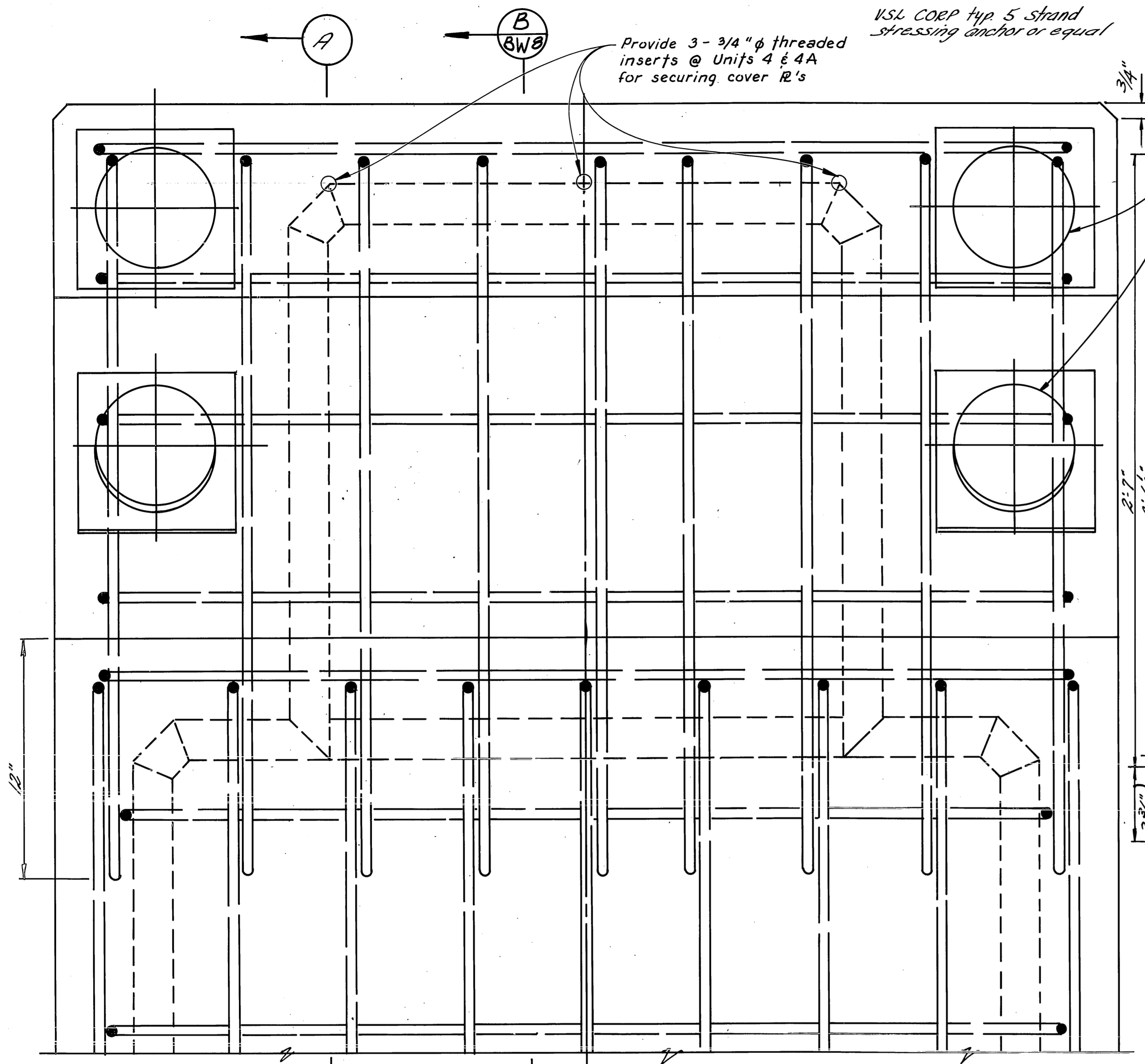


SECTION N
3/4" = 1'-0"

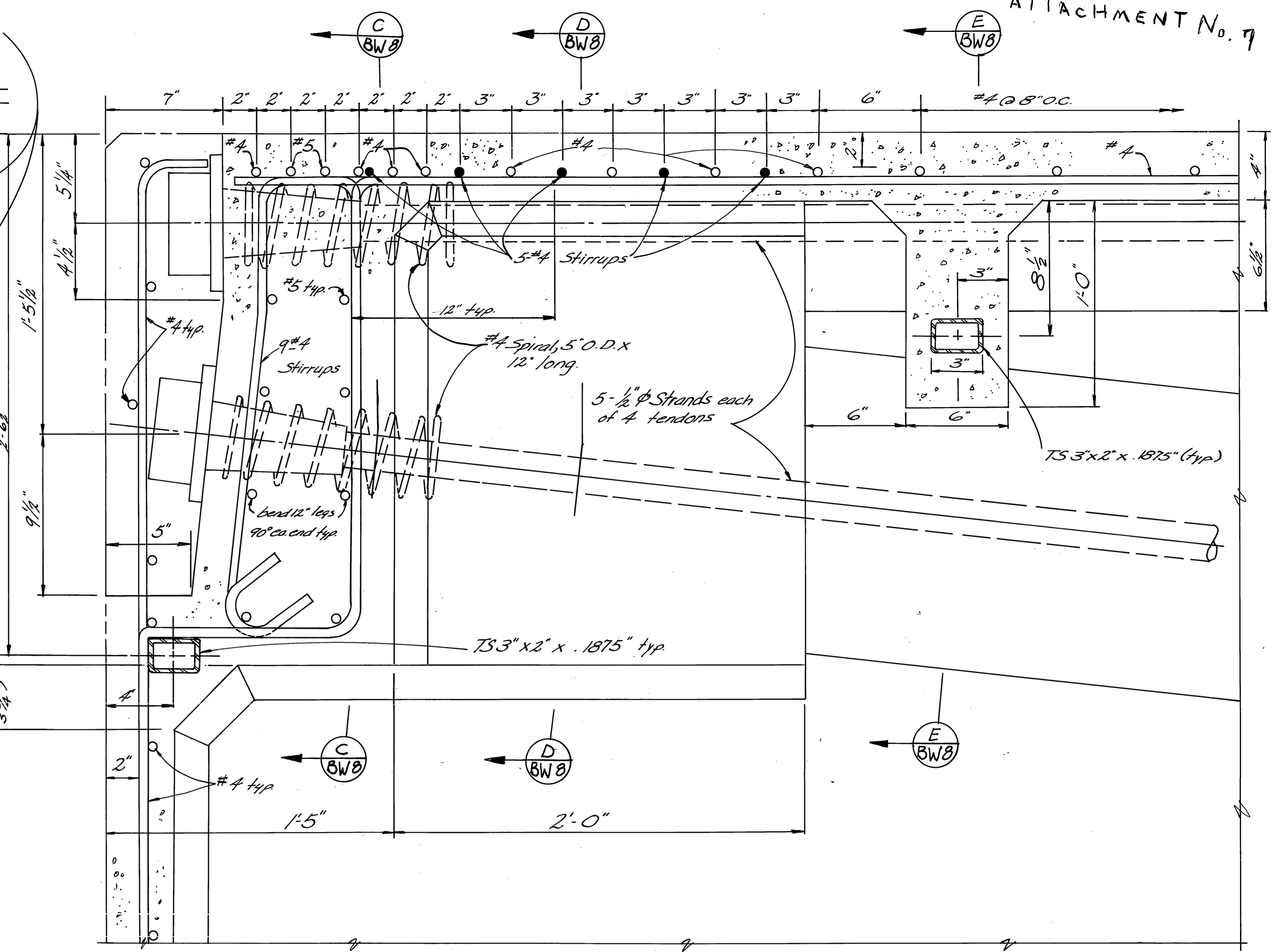
Note: 120 lb. concrete to be utilized for uniform flotation on unit 4A.

BW 5

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		TRANSVERSE UNIT (4A)	
SCALE <i>AS NOTED</i>	SURVEYED	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED	DRAWN <i>RJT</i>		
CHECKED	DATE		
PROJECT NUMBER	SHEET <i>26</i> OF <i>41</i>		



END ELEVATION UNITS 1 & 1A
scale: 3"=1'-0"



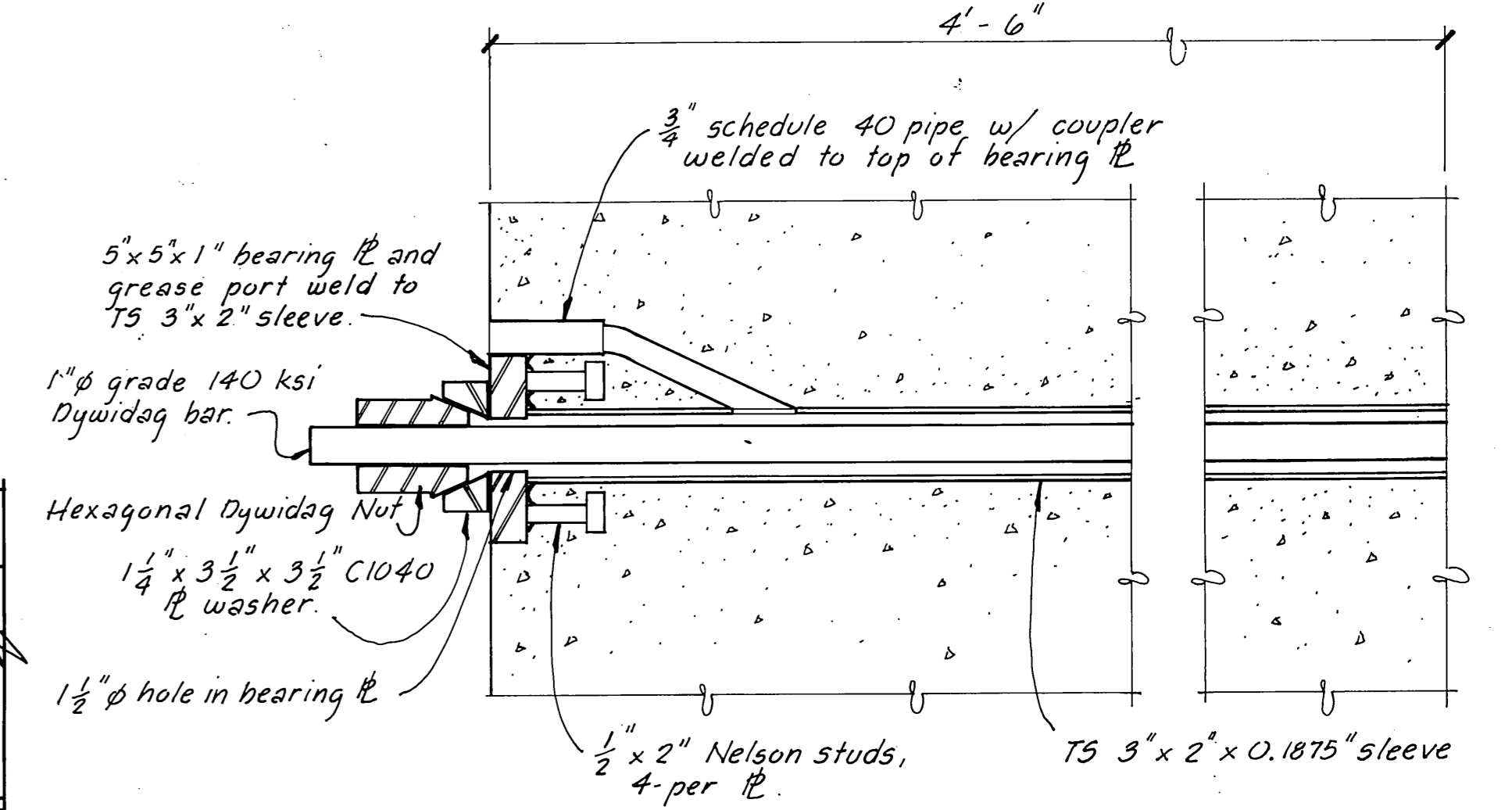
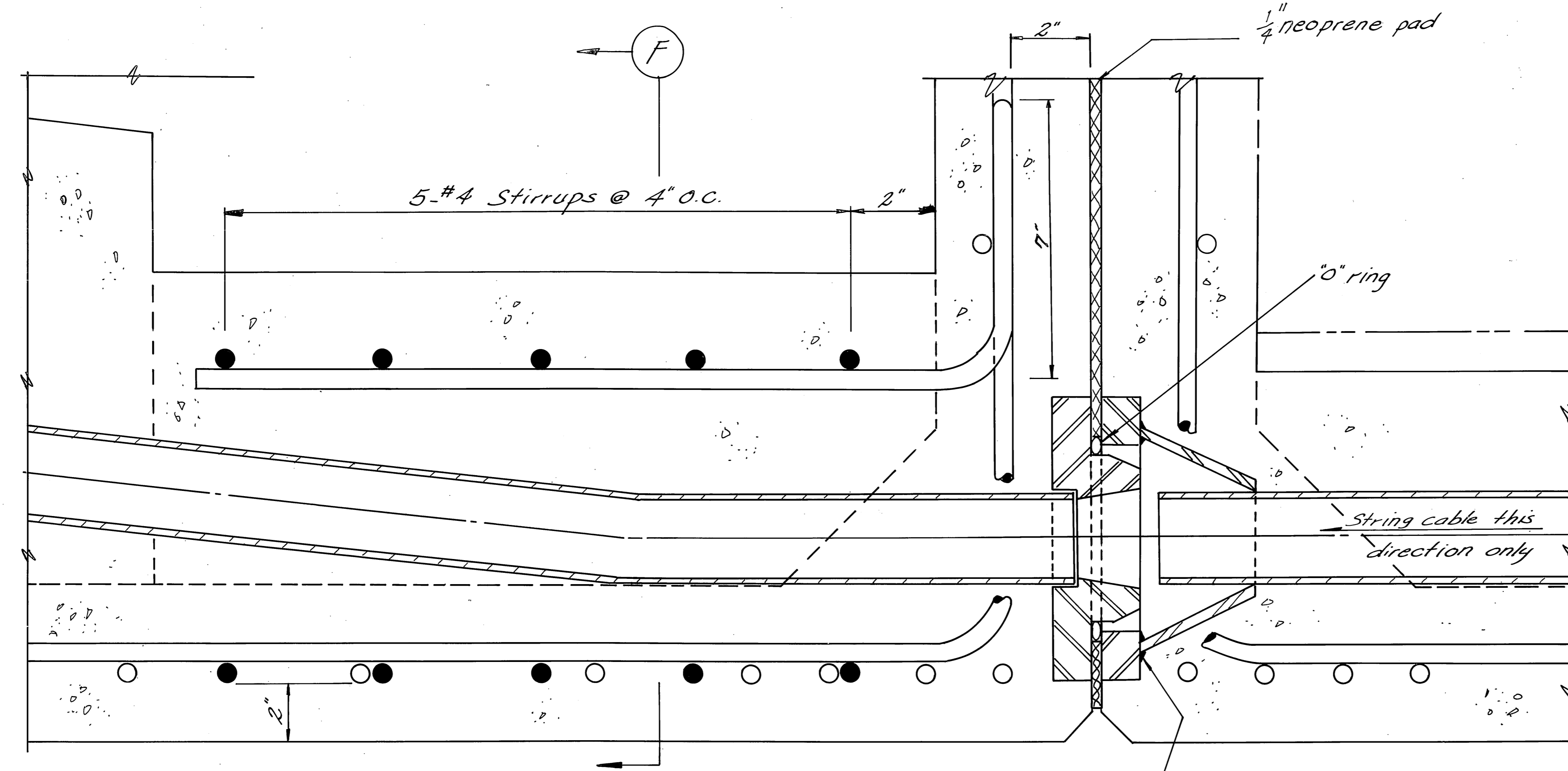
SECTION A-A
scale: 3"=1'-0"

- Notes:
- 1) Post-tension strands (270")
 - 2) Load tendons temporarily to 165 kips.
 - 3) Release jacking force and anchor at 120 kips.

BW 7

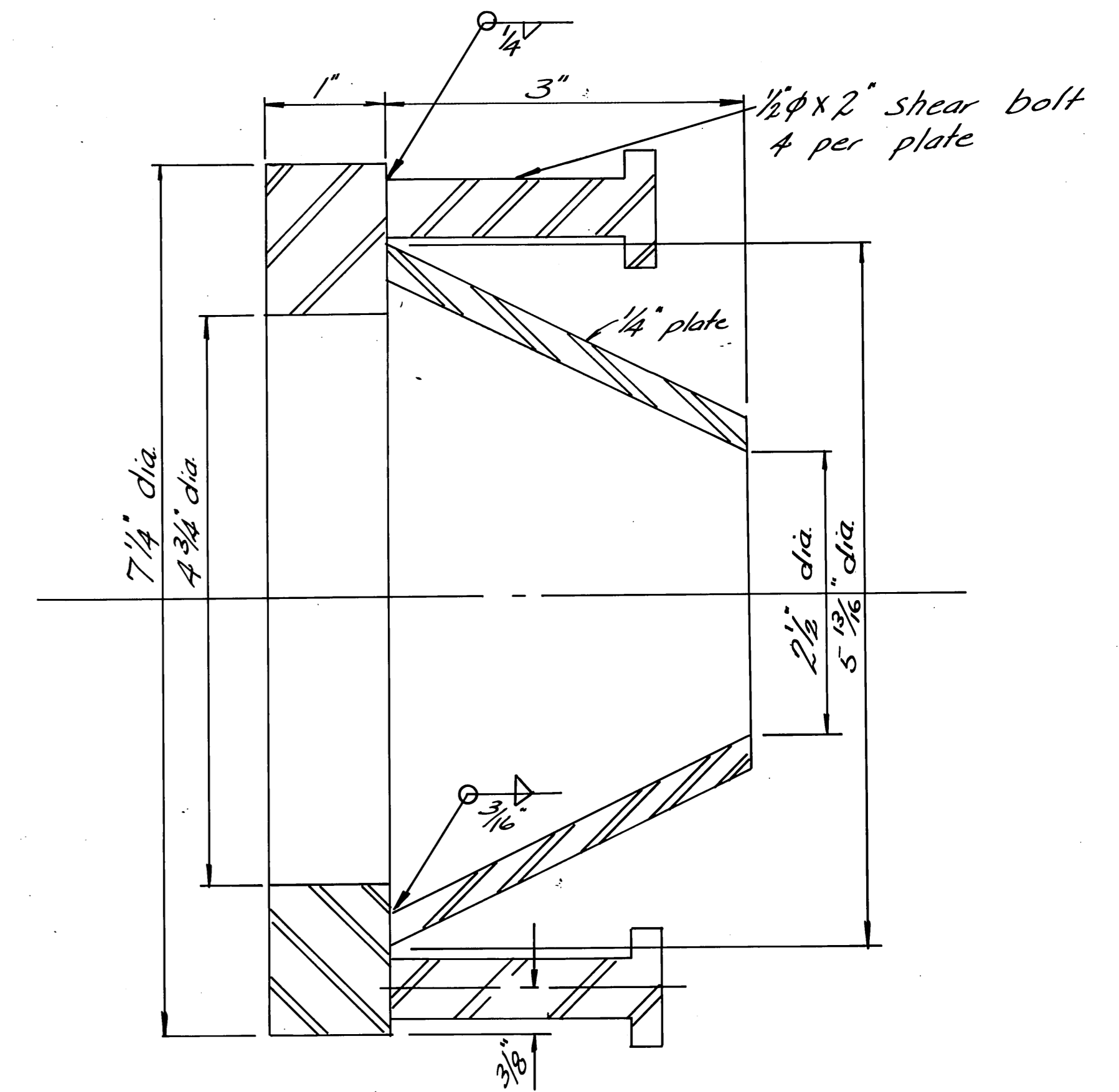
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
<u>DETAILS</u>		
SCALE: _____	SURVEYED: _____	APPROVED: _____
DESIGNED: _____	DRAWN: _____	Robert P. Beck
CHECKED: _____	DATE: _____	CHIEF OF DESIGN
PROJECT NUMBER: _____	SHEET - 28 - OF - 41	

ADDENDUM No. 1
ATTACHMENT No. 9

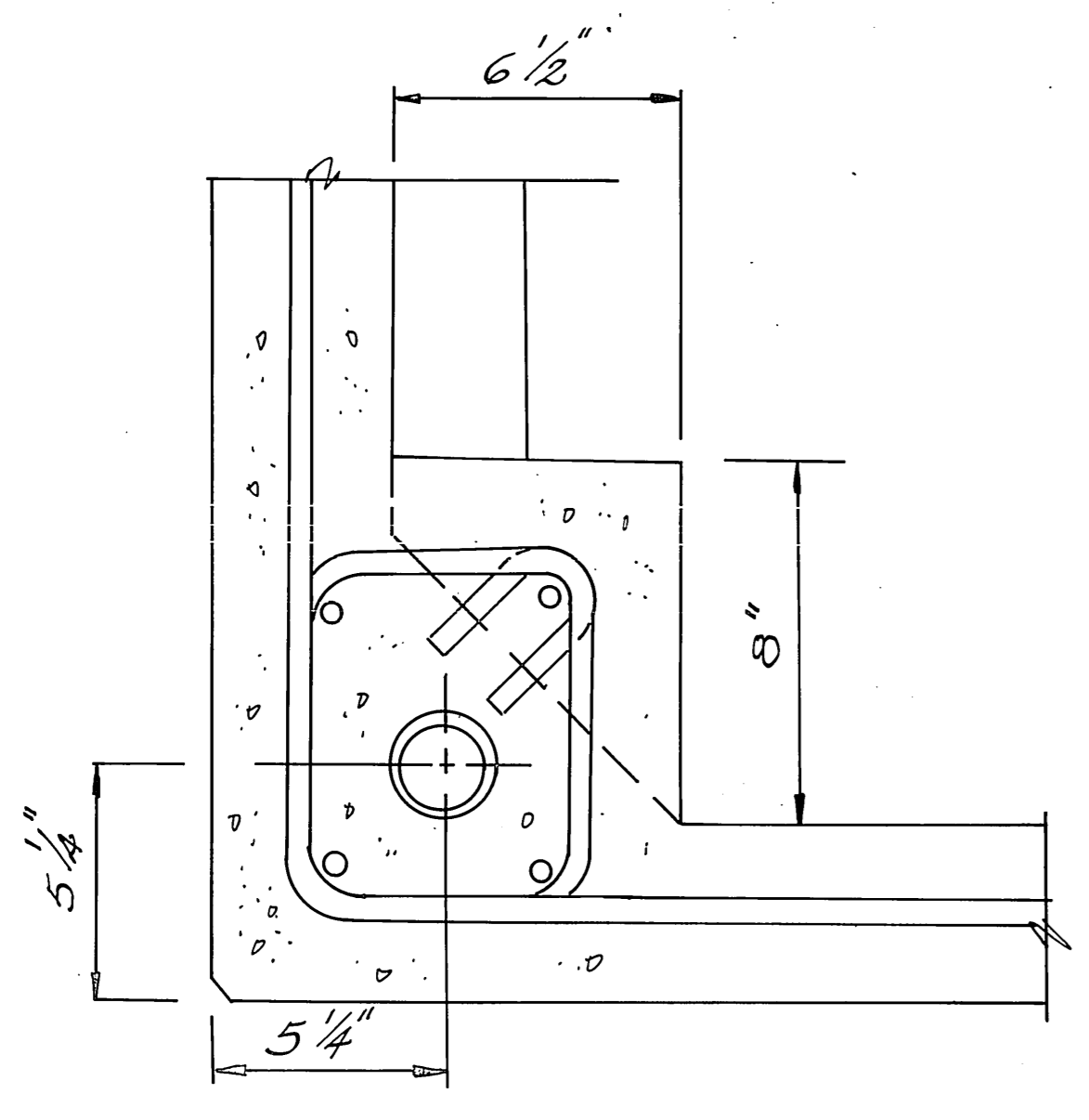


Note: Hot dip galv. after fabrication.

TYPICAL CONNECTION DETAIL (A/BW9) See typ detail (Reverse as req'd) 1

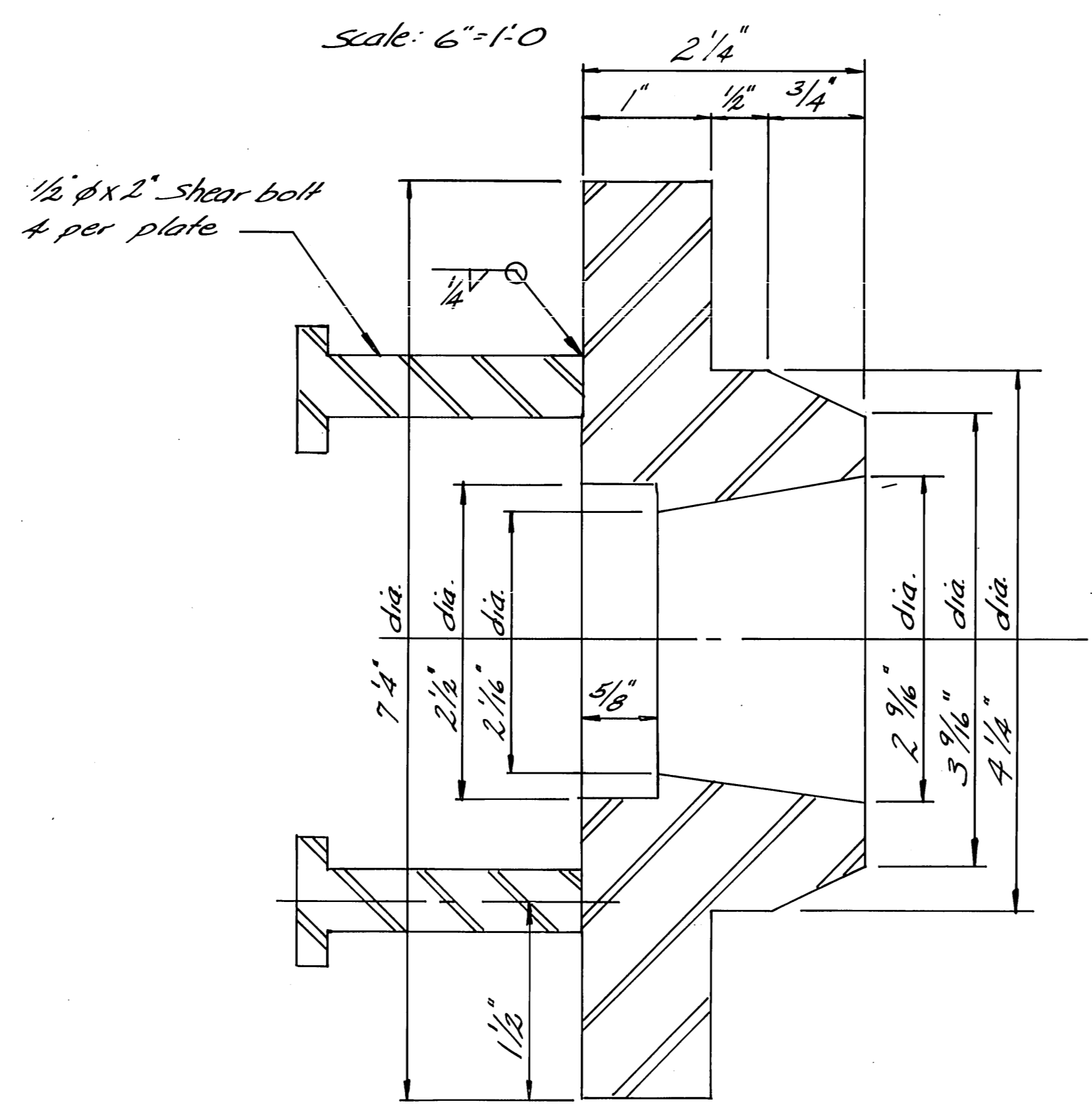


TYPICAL DETAIL 1



SECTION F

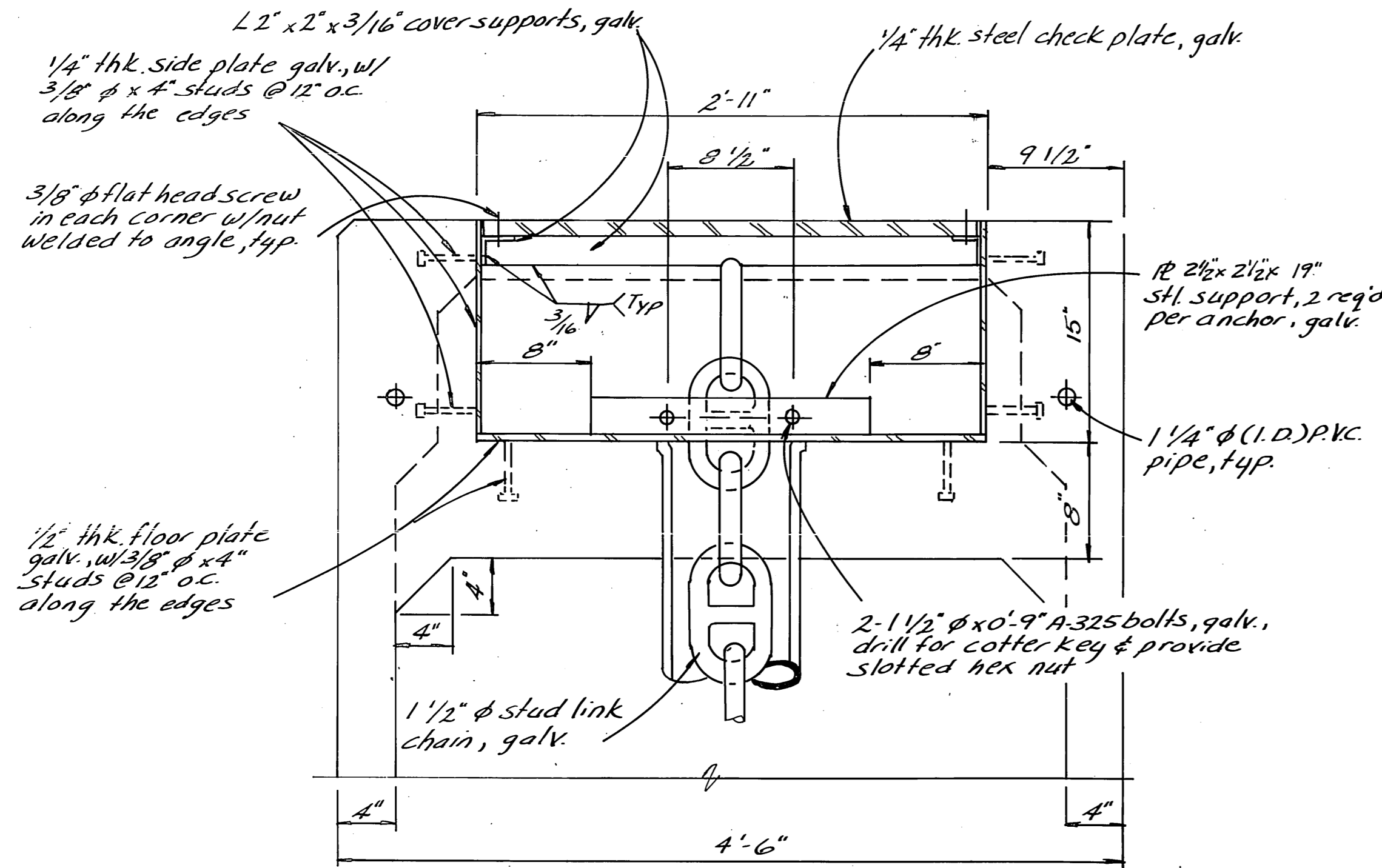
Scale: 3" = 1'-0"



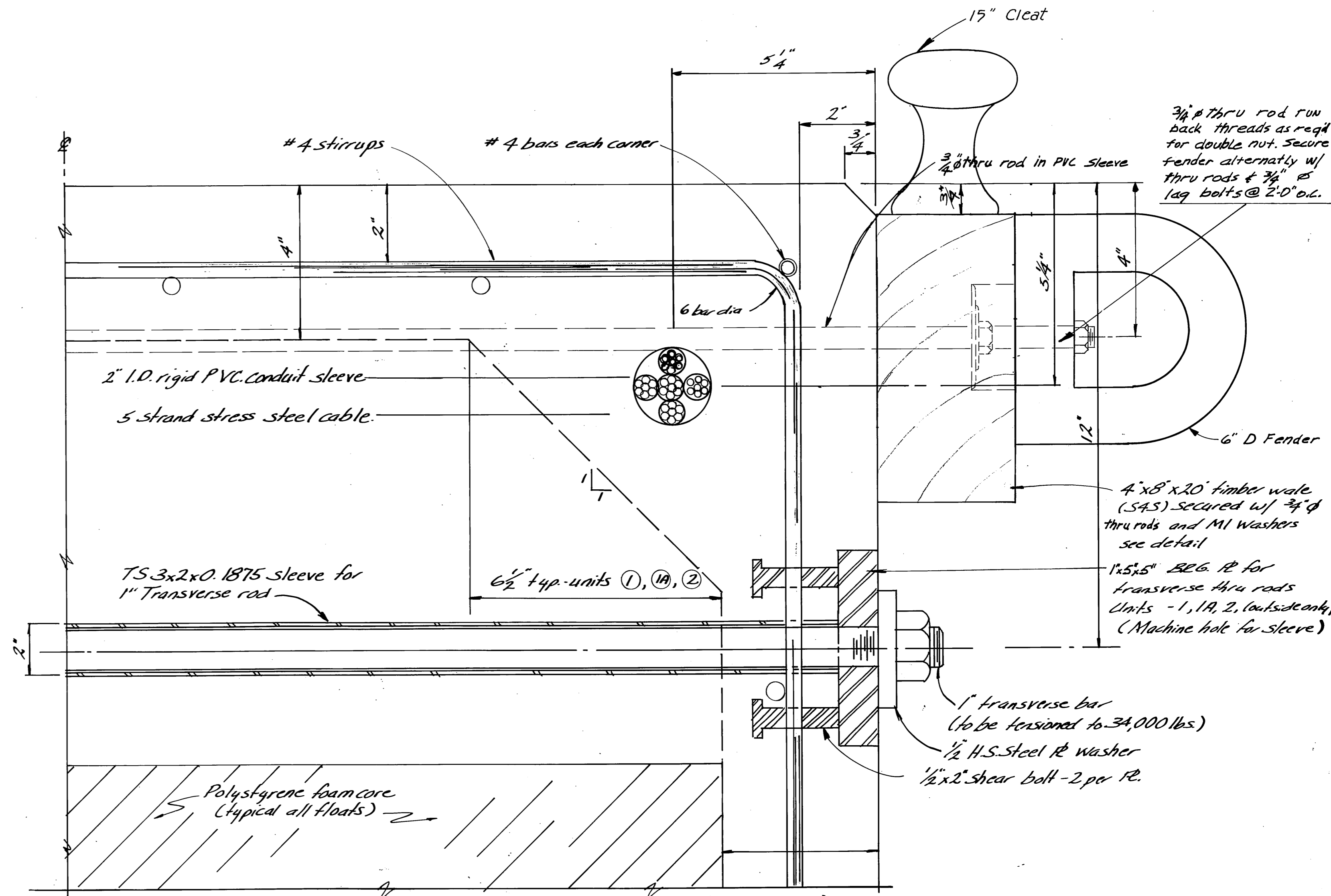
Full Size

BW 9

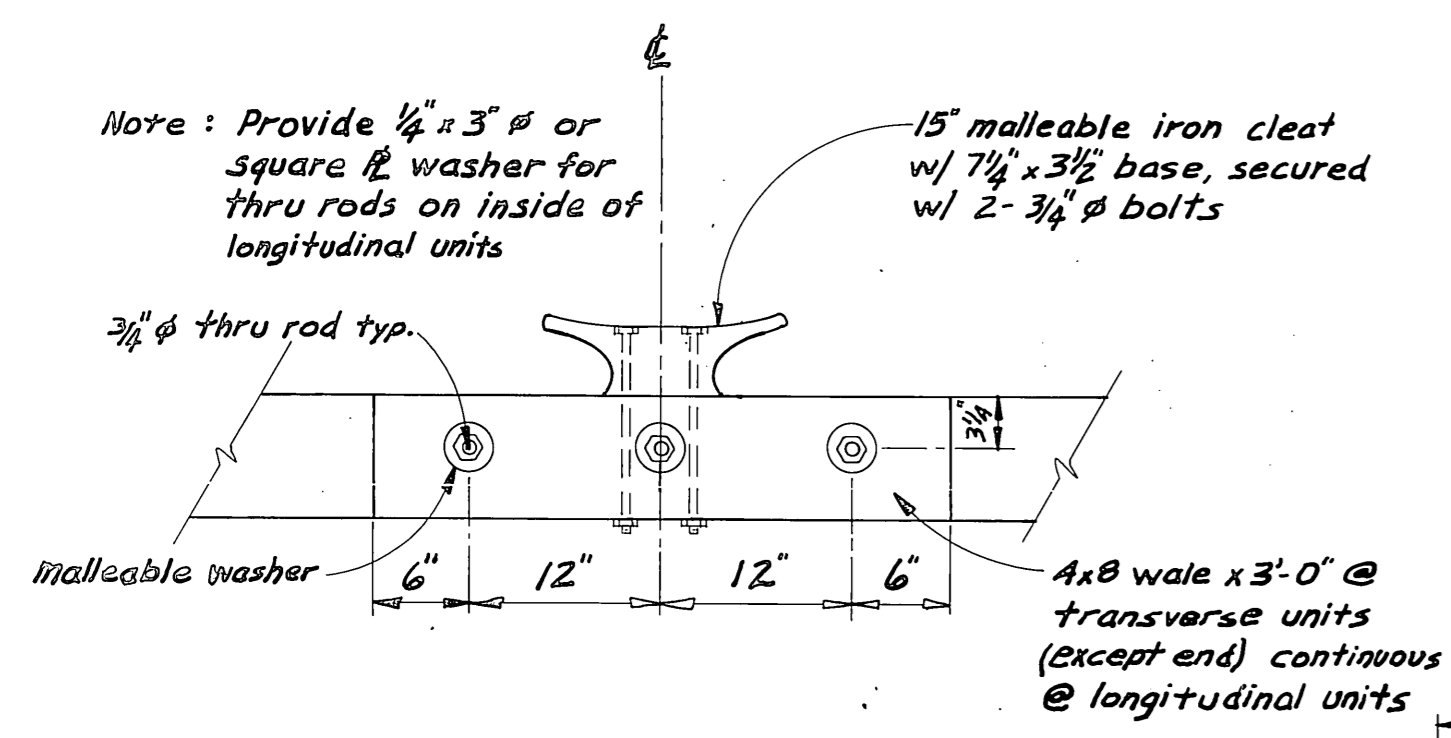
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		DETAILS	
SCALE _____	SURVEYED _____	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED _____	DRAWN _____		
CHECKED _____	DATE _____		
PROJECT NUMBER _____	SHEET 30 OF 41		



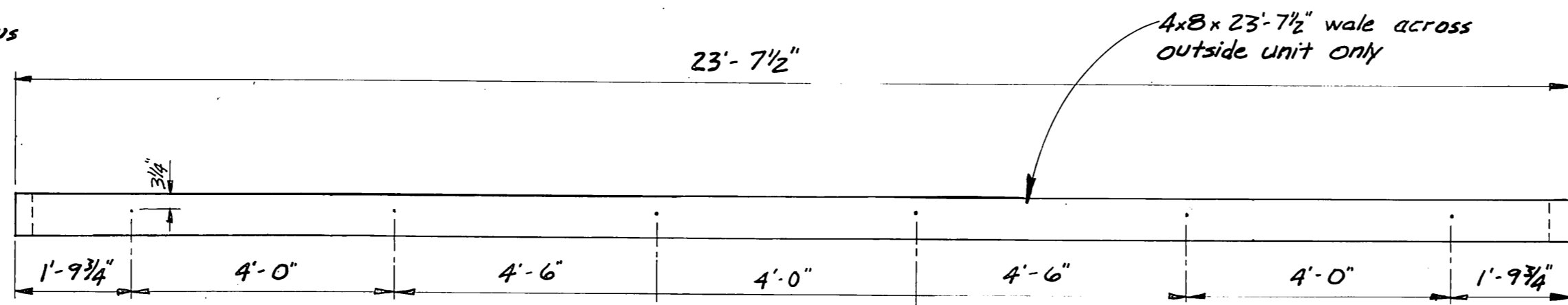
TYPICAL ANCHOR CHAIN SUPPORT DETAIL (A)
Scale: 1/2" = 1'-0"



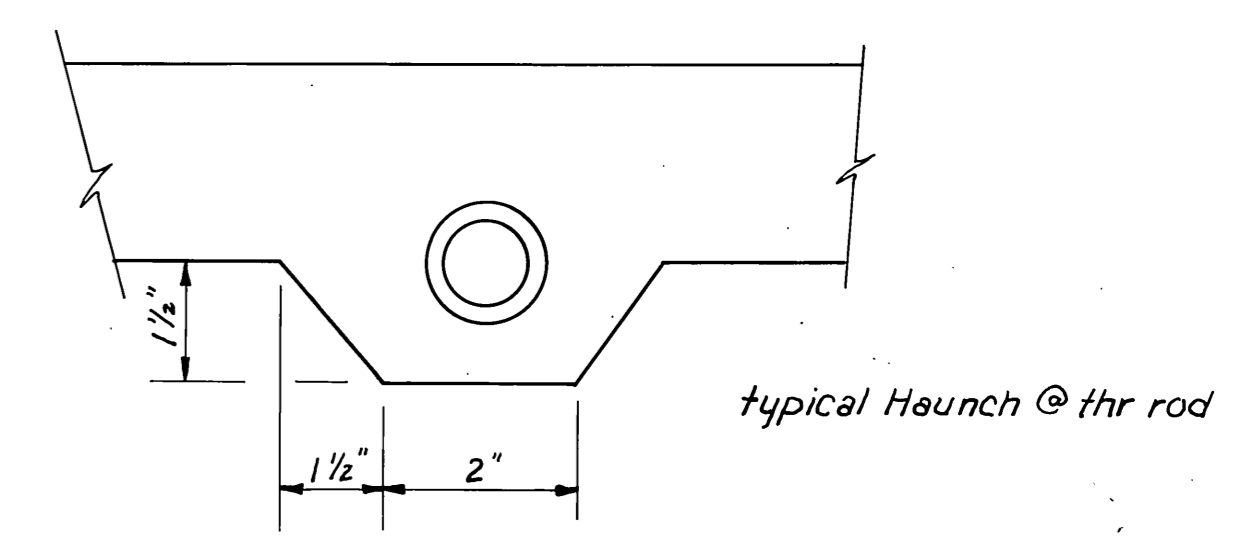
TYP. CORNER DETAIL
Scale: 6" = 1'-0"



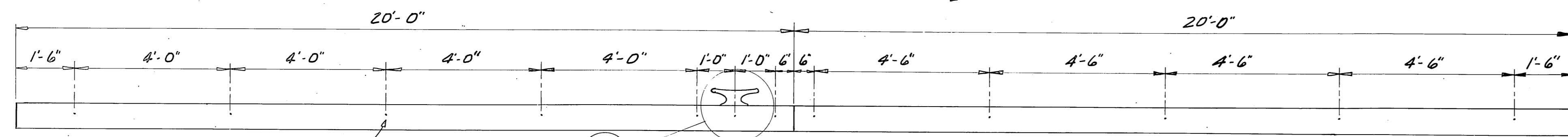
CLEAT DETAIL (B)
1" = 1'-0"



TRANSVERSE WALES & CLEAT BASE
Scale: 1/2" = 1'-0"



HAUNCH DETAIL
1" = 2'-0"



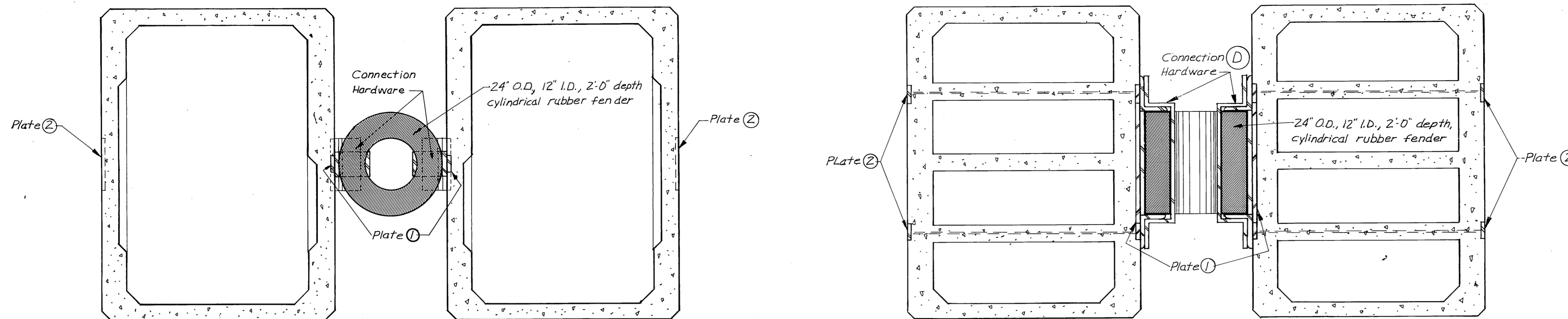
TYPICAL LONGITUDINAL WALES (D)
Scale: 1/2" = 1'-0"

13/16" φ hole counter bore 2 3/4" Dia. 3/4" deep.

Note: Where transverse member prohibits use of thru rods use 3/4" φ threaded insert.

BW 10

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		<u>DETAILS</u>	
SCALE _____	SURVEYED _____	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED _____	DRAWN _____		
CHECKED _____	DATE _____		
PROJECT NUMBER _____	SHEET 31 OF 41		



CENTER (2 REQD)
BREAKWATER CONNECTION
3/4" = 1'-0" (A)

SIDE (6 REQD)
BREAKWATER CONNECTION
3/4" = 1'-0" (B)

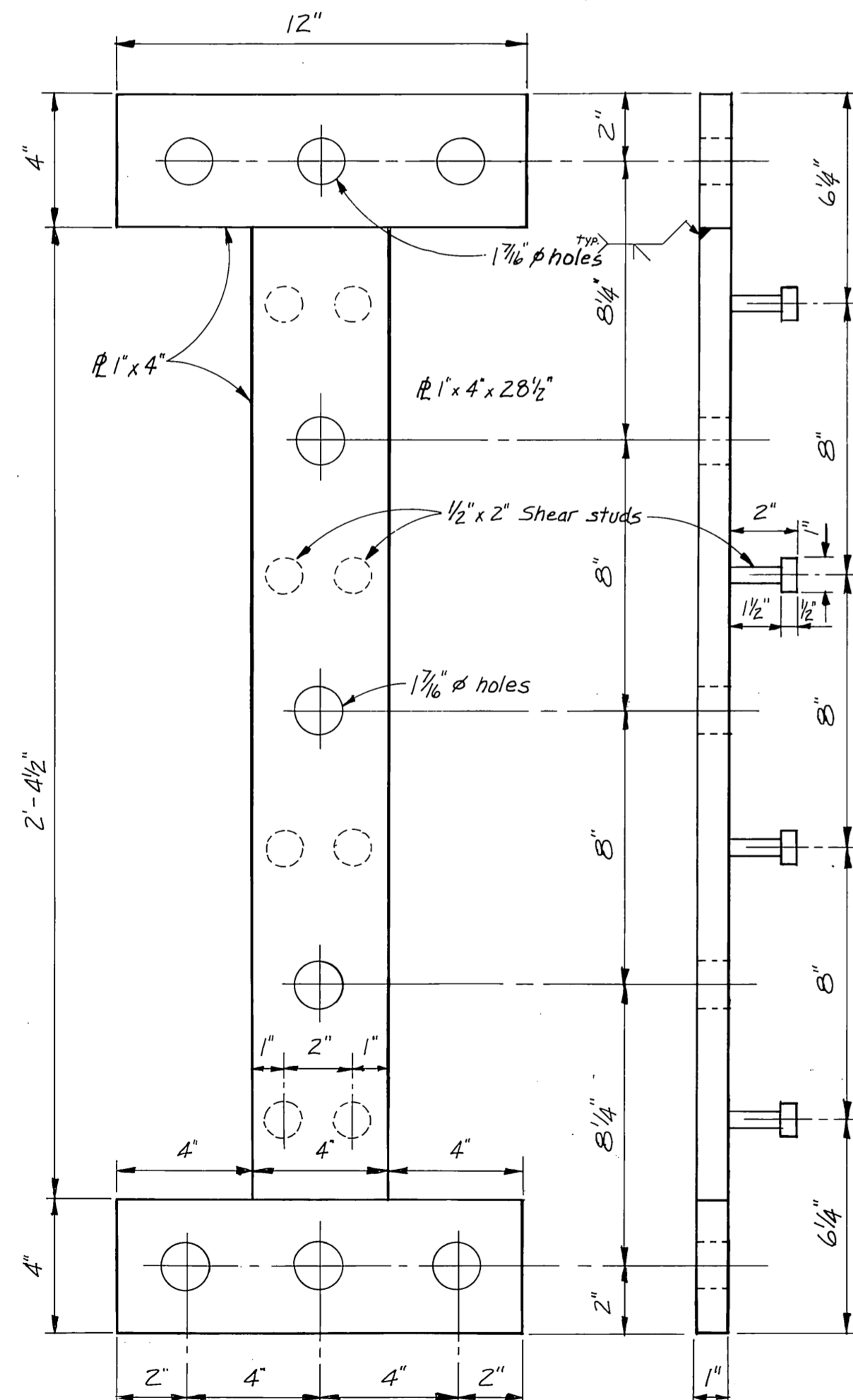
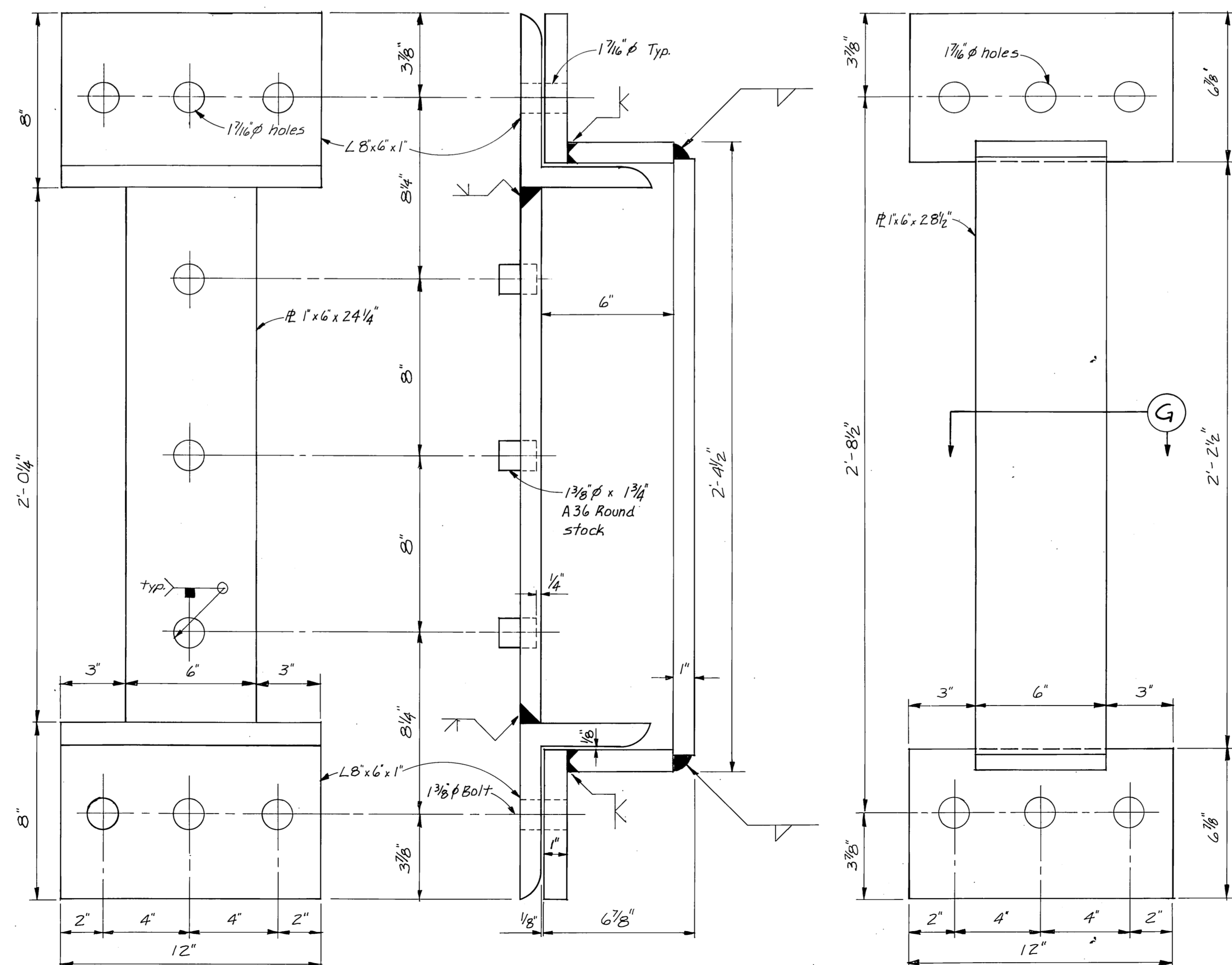


PLATE ①
3" = 1'-0"



CONNECTION HARDWARE DETAIL
3" = 1'-0" (D)

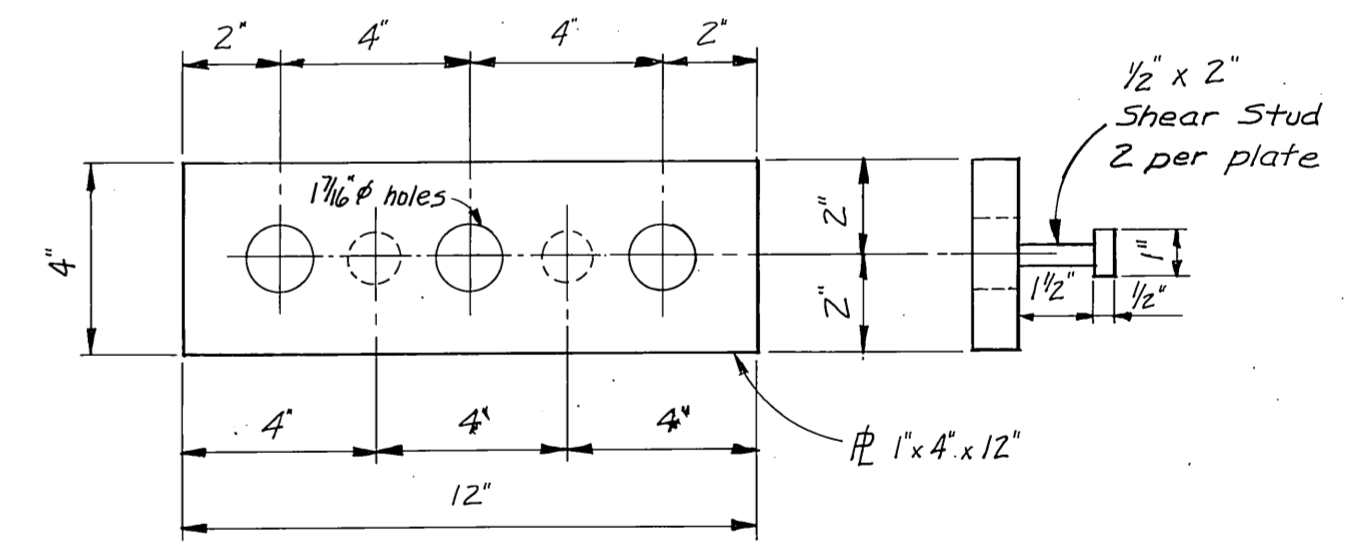
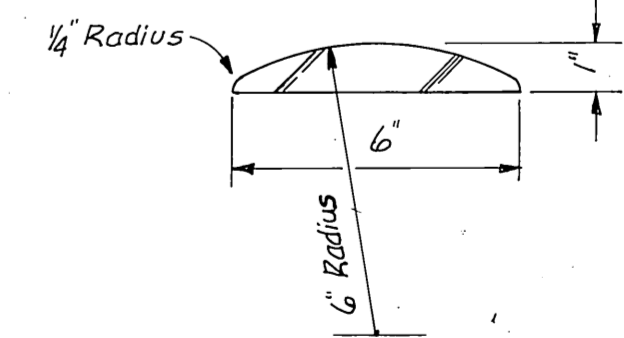



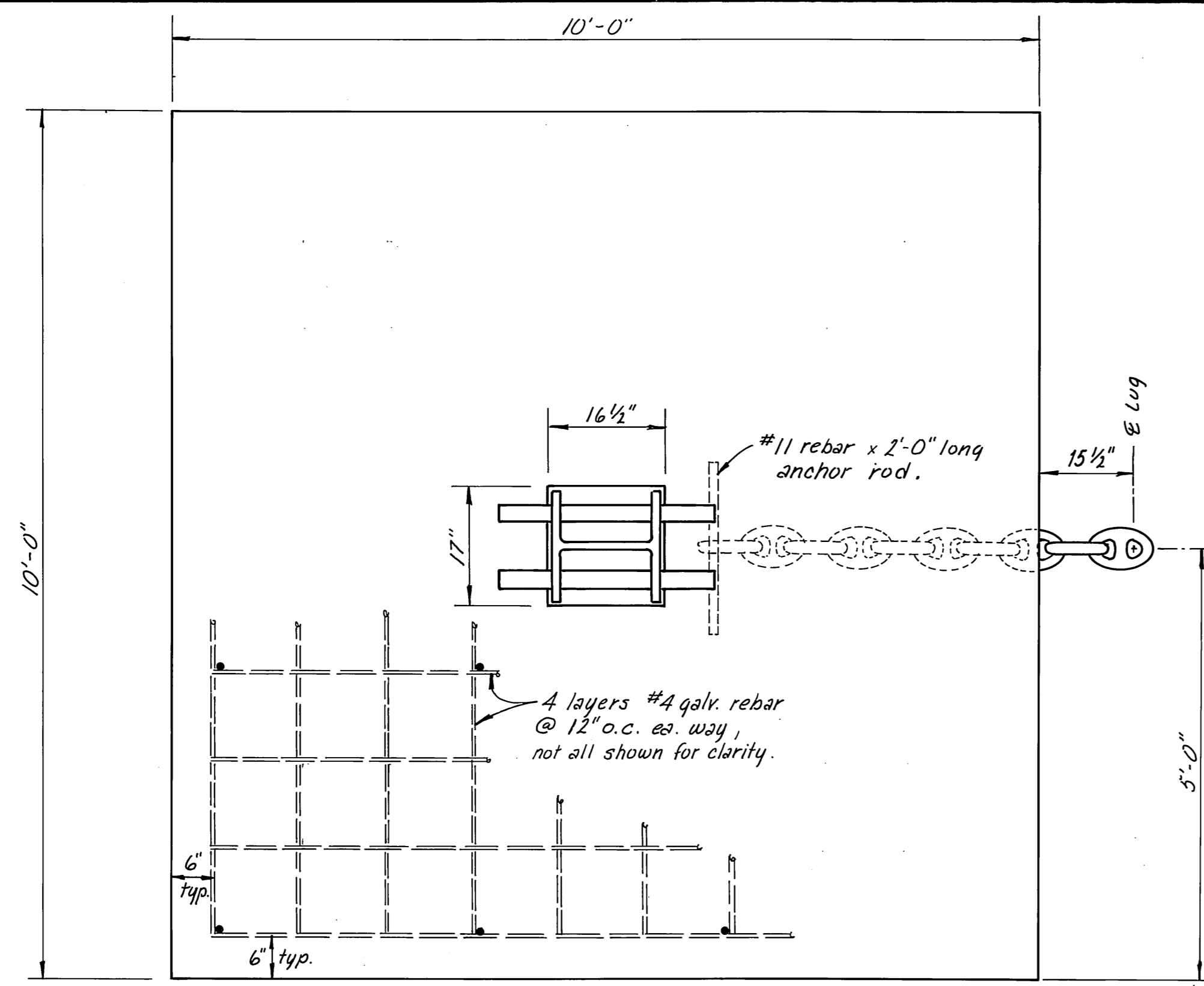
PLATE ②
3" = 1'-0"



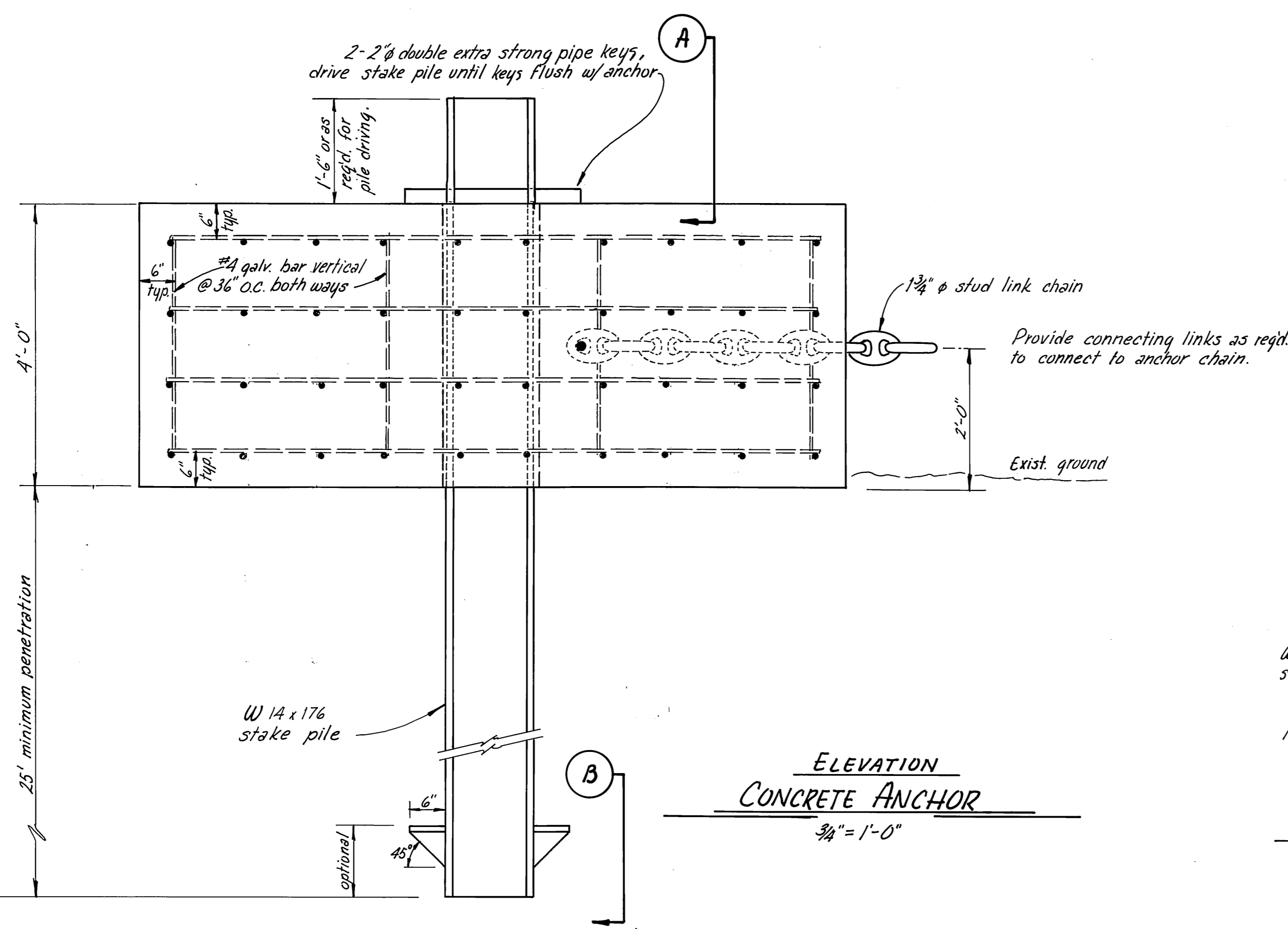
SECTION G
3" = 1'-0"

BW 11

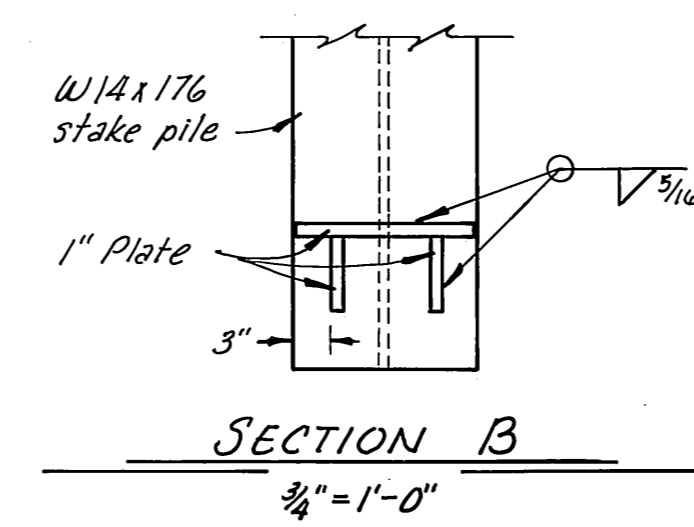
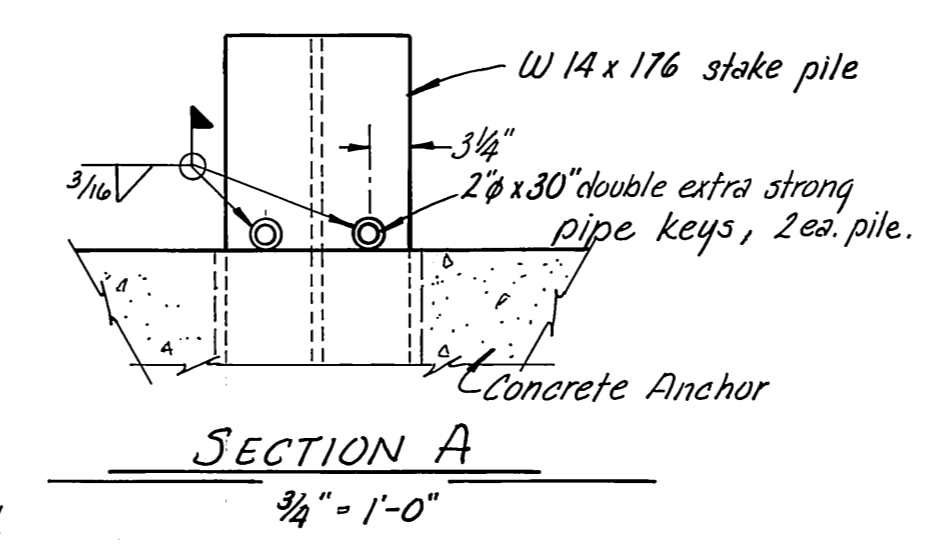
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Auks Bay		Alaska	
<u>BREAKWATER CONNECTION</u>			
SCALE <i>as noted</i>	SURVEYED	APPROVED	
DESIGNED	DRAWN <i>RJT</i>	 Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE		
PROJECT NUMBER	K 31448	SHEET	332 OF 41



PLAN VIEW
CONCRETE ANCHOR
3/4" = 1'-0"



ELEVATION
CONCRETE ANCHOR
3/4" = 1'-0"



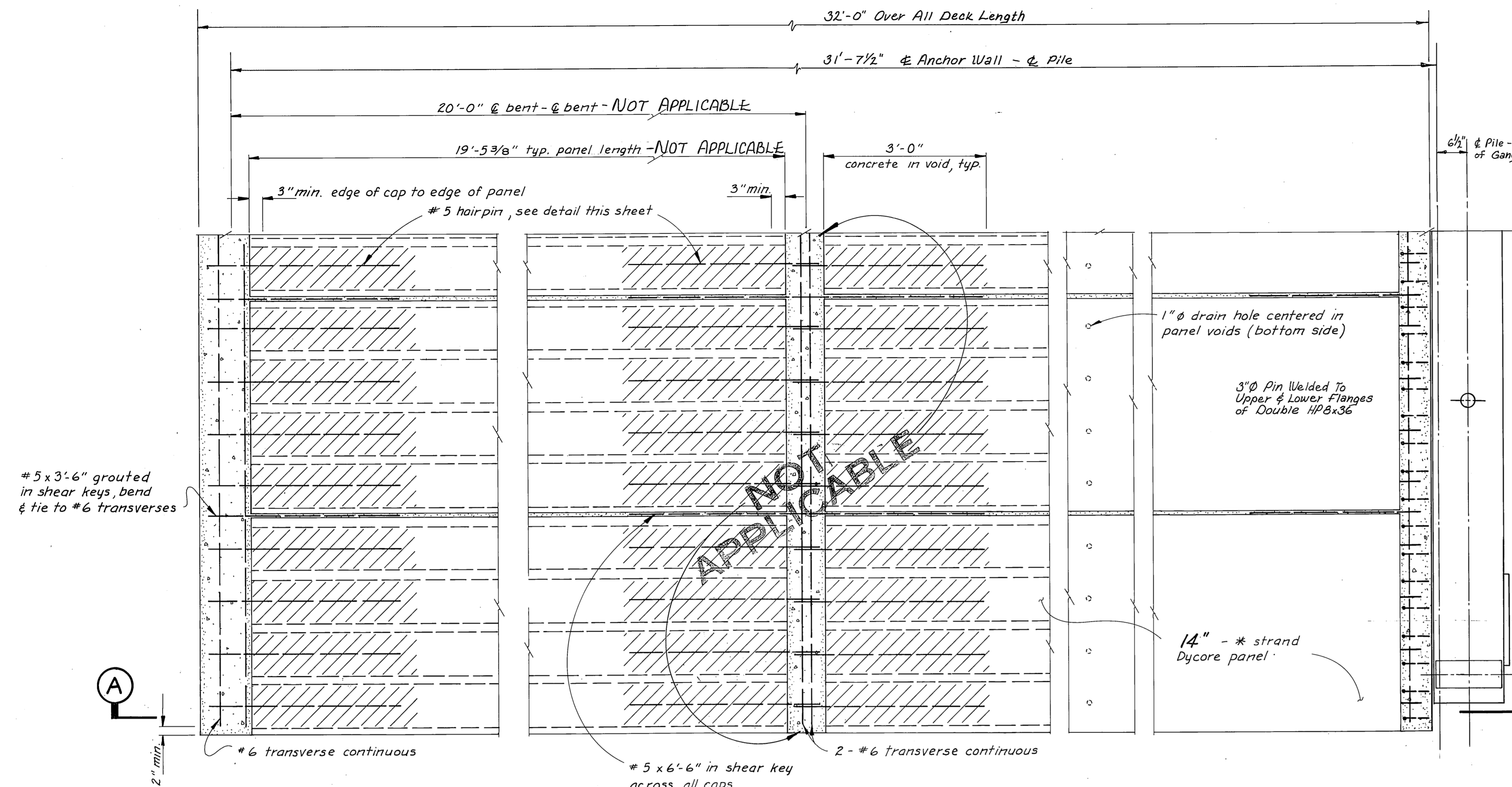
BREAKWATER AND FLOAT ANCHORS

Anchor Number	Chain Size	Calculated Chain Length add 5' for field adjust.	Horz. distance from centerline of BRKW/FLOAT to centerline of anchor lug
162	1 1/2"	383.8'	353.3'
3	**	377.8'	350.7'
465	1 1/2"	384.2'	352.9'
6	**	371.4'	345.1'
768	1 1/2"	383.4'	352.7'
9	**	365.1'	339.3'
10611	1 1/2"	383.4'	352.5'
12	*1 1/2"	531.9'	509.3'
13	**	358.8'	333.5'
14617	1 1/2"	382.6'	352.4'
15	**	490.7'	470.7'
16	**	352.5'	327.6'
18619	1 1/2"	380.3'	351.9'
20	**	346.2'	319.1'
21622	1 1/2"	380.3'	349.4'
23	**	356.3'	333.6'
24625	1 1/2"	379.9'	352.7'
26	**	360.6'	338.3'
27	1 1/2"	389.6'	362.6'
28	1 1/2"	373.8'	348.4'
29	1 1/2"	389.6'	362.3'
30	1 1/2"	358.0'	333.7'
31	1 1/2"	380.0'	348.2'
32	*1-3/4"	425.4'	401.5'
33	1 1/2"	348.6'	325.8'
34	*1-3/4"	431.7'	410.5'
35	1 1/2"	377.0'	350.5'
36	1 1/2"	350.8'	315.5'
37	1 1/2"	373.8'	347.7'
38	*1-3/4"	411.2'	401.0'
39	1 1/2"	349.0'	303.3'
40	*1-3/4"	424.7'	391.0'
41	1 1/2"	373.8'	343.0'
42	1 1/2"	343.8'	329.0'
43	1 1/2"	373.8'	343.0'
44	1 1/2"	344.4'	329.0'
45	1 1/2"	367.5'	336.5'
46	1 1/2"	349.7'	329.5'
47	1 1/2"	364.3'	333.9'
48	*1 1/2"	400.1'	383.6'
49	1 1/2"	349.7'	329.1'
50	*1 1/2"	381.7'	366.4'
51	1 1/2"	361.2'	330.8'
52	1 1/2"	350.1'	329.2'
53	*1 1/2"	572.8'	552.8'
54	*1 1/2"	463.8'	454.2'
55	*1 1/2"	560.8'	541.5'
56	*1 1/2"	387.3'	384.5'

* All Longitudinal anchors, shall have a 1-3/4" Ø nylon rope safety line. The safety line shall run from the anchor to approximately 10' below the float. Its length shall be 15' less than the calculated chain length. It shall be attached to the anchor chain with shackles as approved by the Engineer.

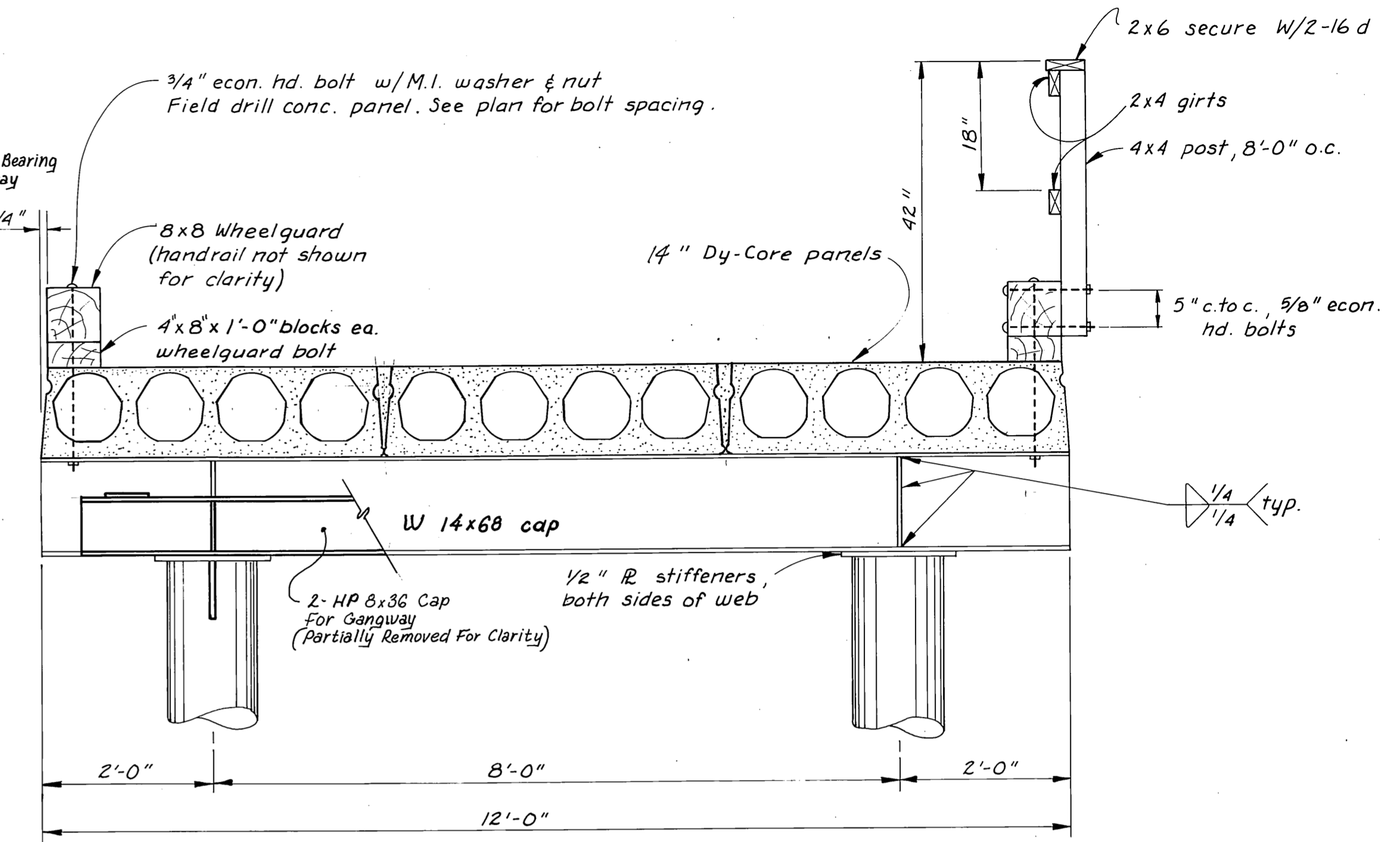
** Double chain anchor

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Auke Bay Alaska CONCRETE ANCHORS	
SCALE 3/4" = 1'-0" DESIGNED JDB CHECKED _____	SURVEYED _____ DRAWN WIN DATE 1/82	APPROVED Robert P. Beck
PROJECT NUMBER K 78180	SHEET 33 OF 41	

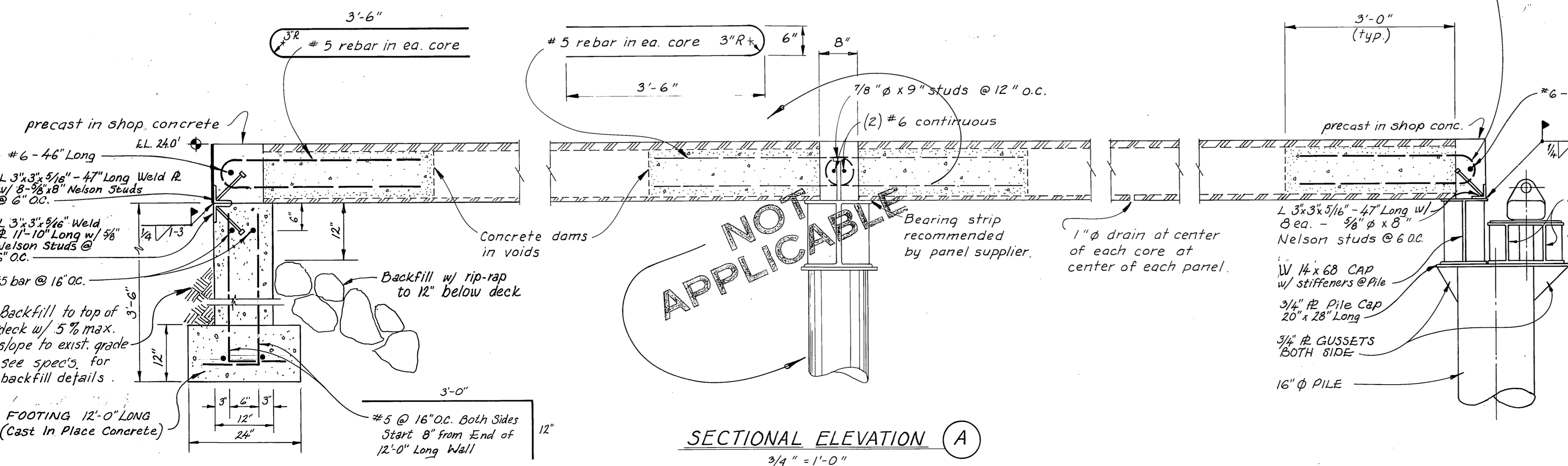
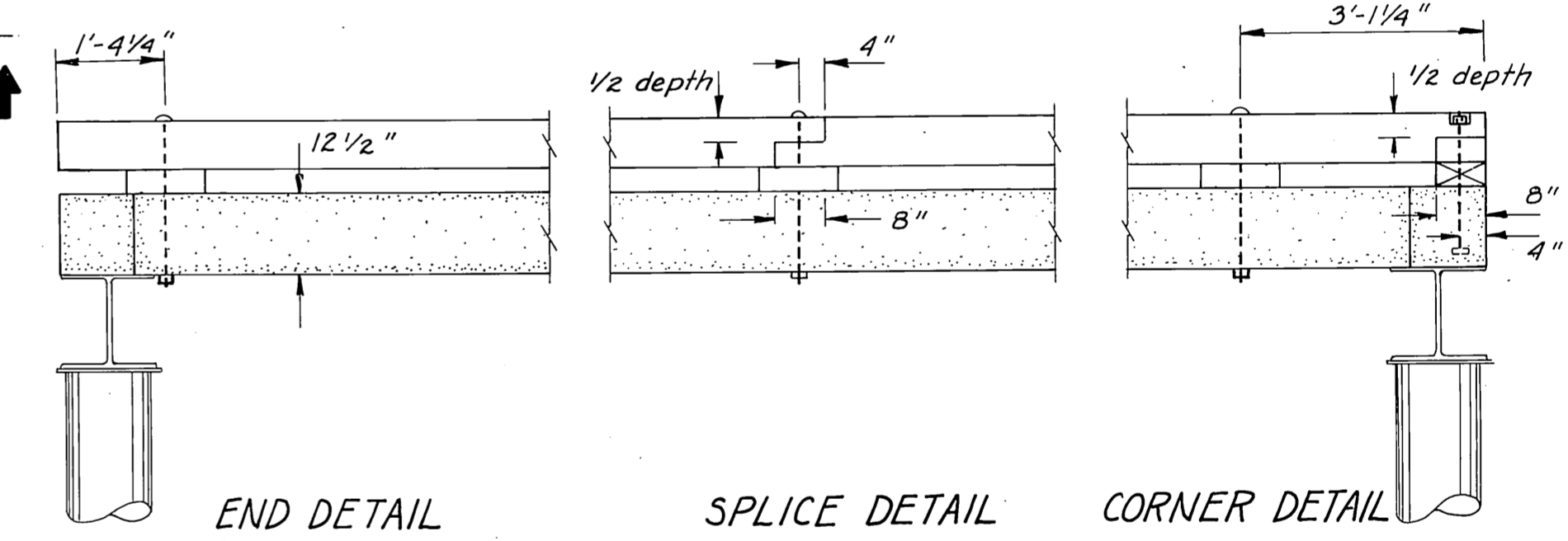


Note: Project requires 3 panels 32'-0" long & intermediate caps are not reqd.

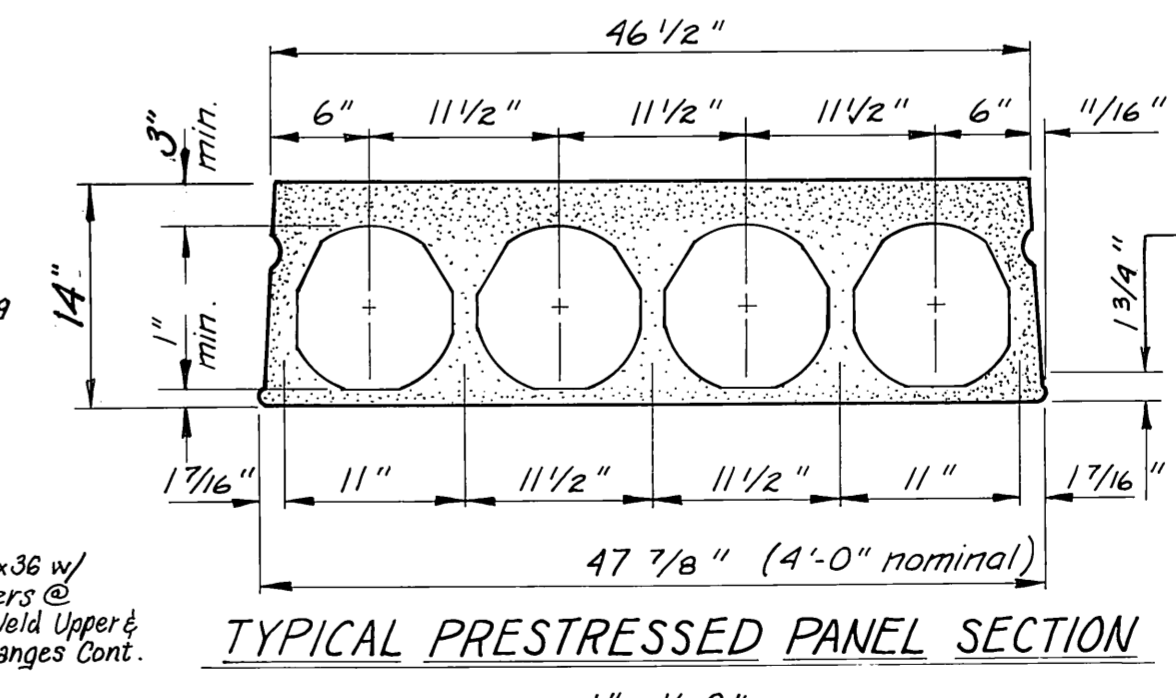
PLAN



TYPICAL APPROACH SECTION



SECTIONAL ELEVATION A

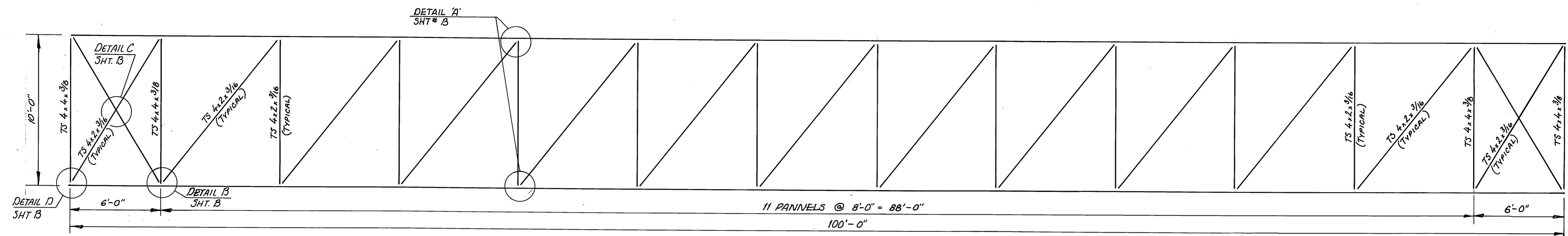


TYPICAL PRESTRESSED PANEL SECTION

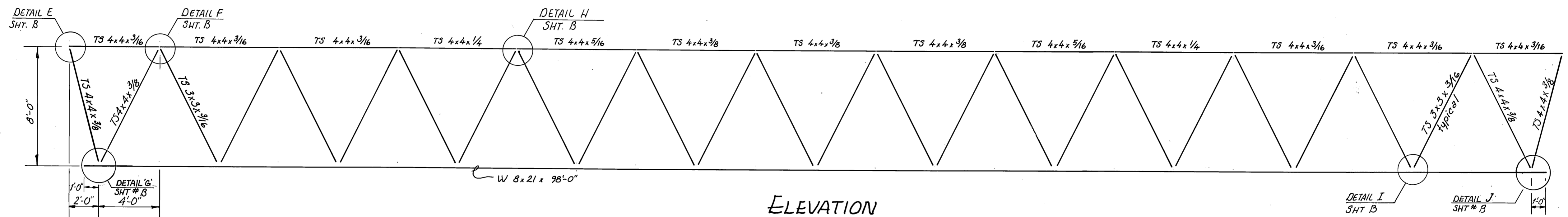
DESIGN LOAD HS 15

Minimum section properties $A_c = 296 \text{ in}^2$
Maximum panel dead wt, $W_d = 100 \text{ psf}$
Compressive strength, $f_c = 8000 \text{ psi}$

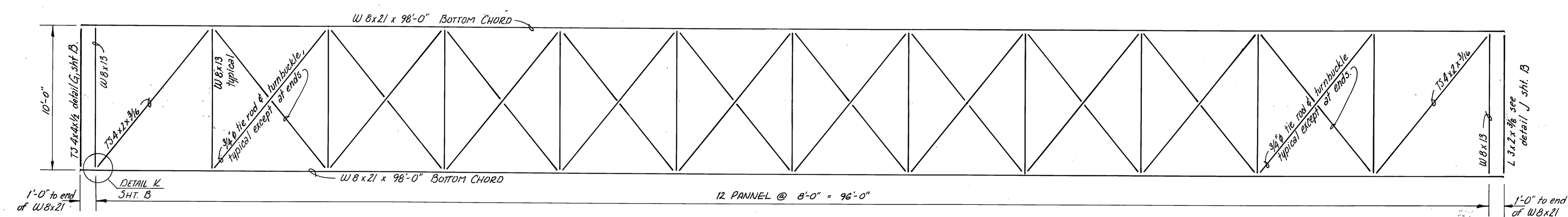
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		ALASKA BAY ALASKA TYPICAL CONCRETE APPROACH	
SCALE As Notes	SURVEYED TS/WMN	APPROVED Robert P. Beck CHIEF OF DESIGN	
DESIGNED BS	DRAWN 4/80	PROJECT NUMBER K 78180	
CHECKED	DATE	SHEET 3A OF 41	



ROOF FRAME PLAN

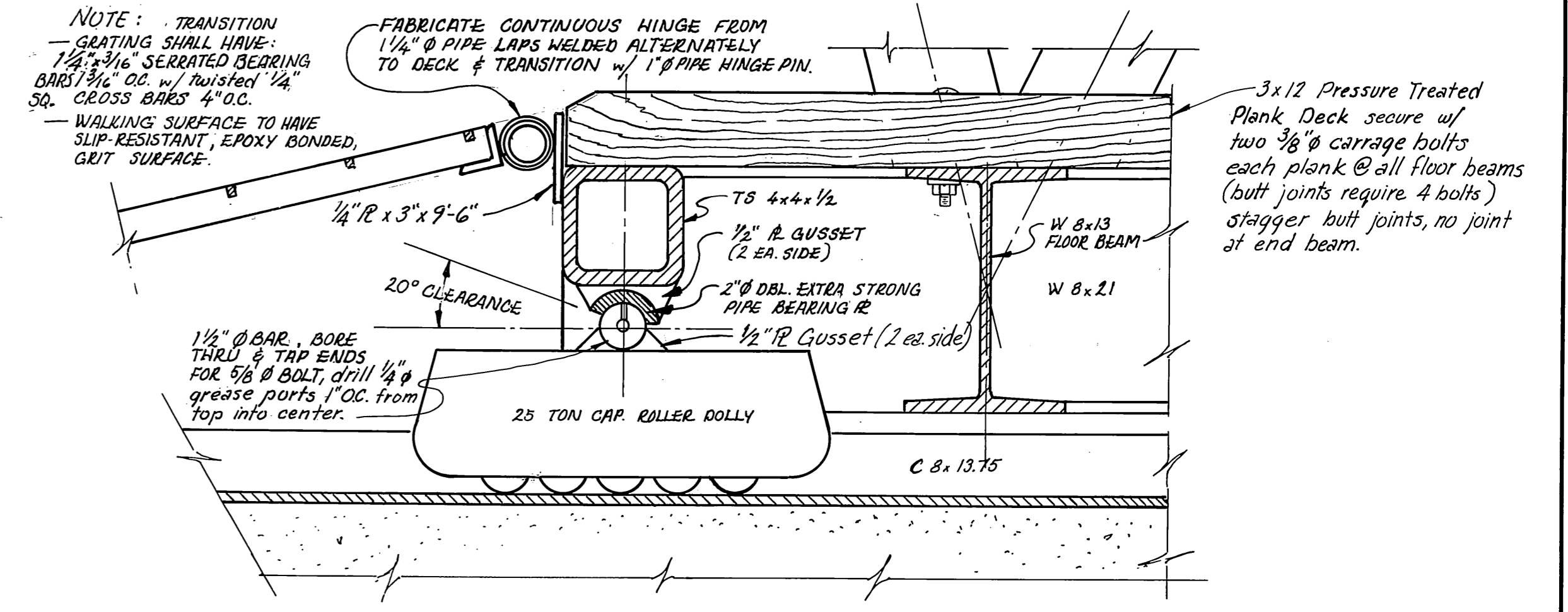
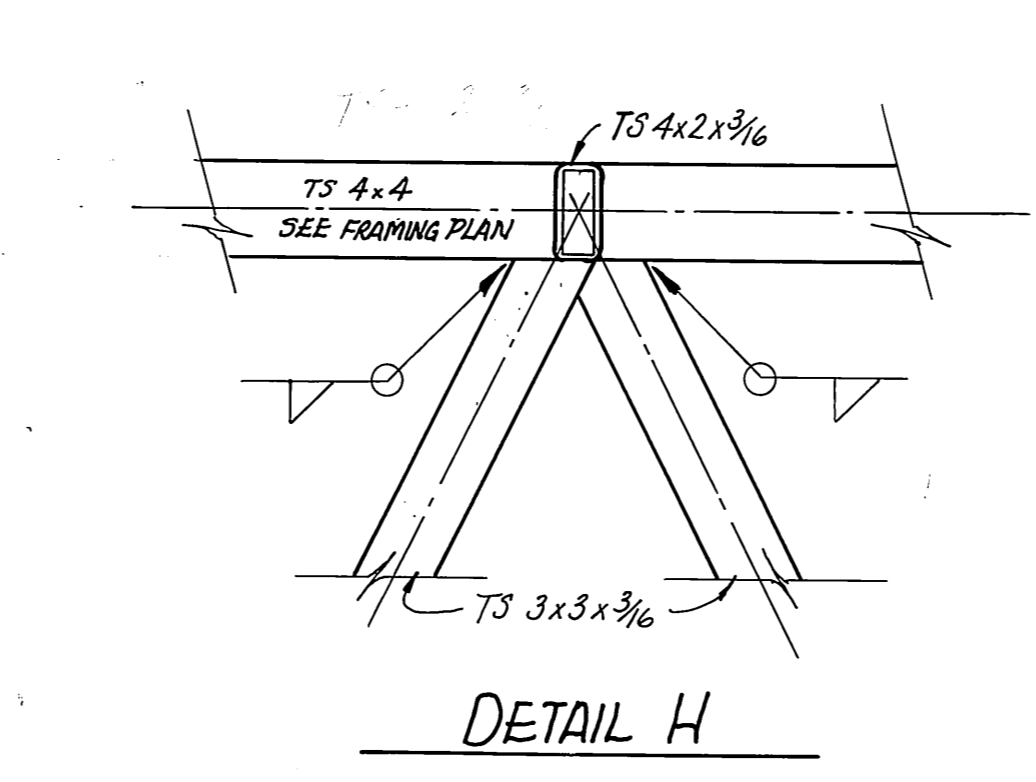
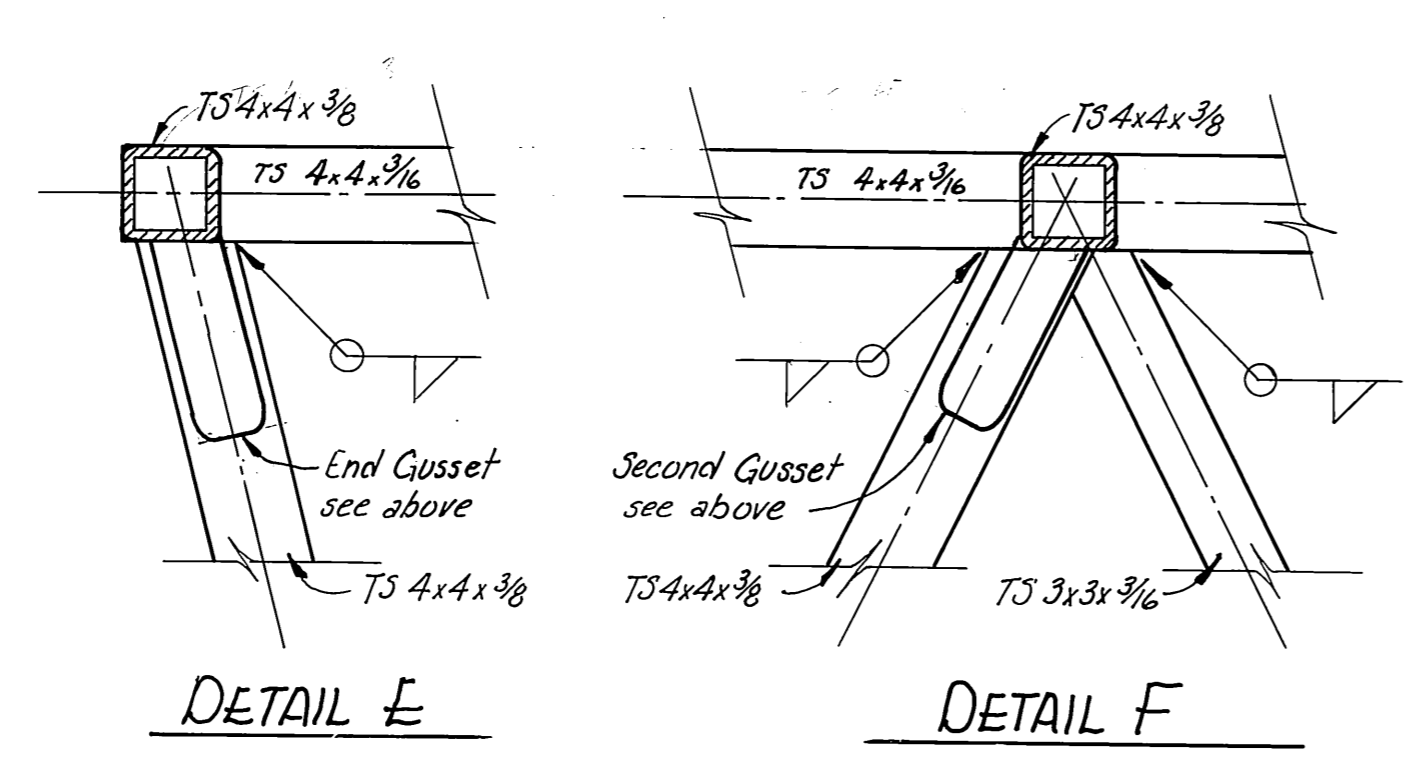
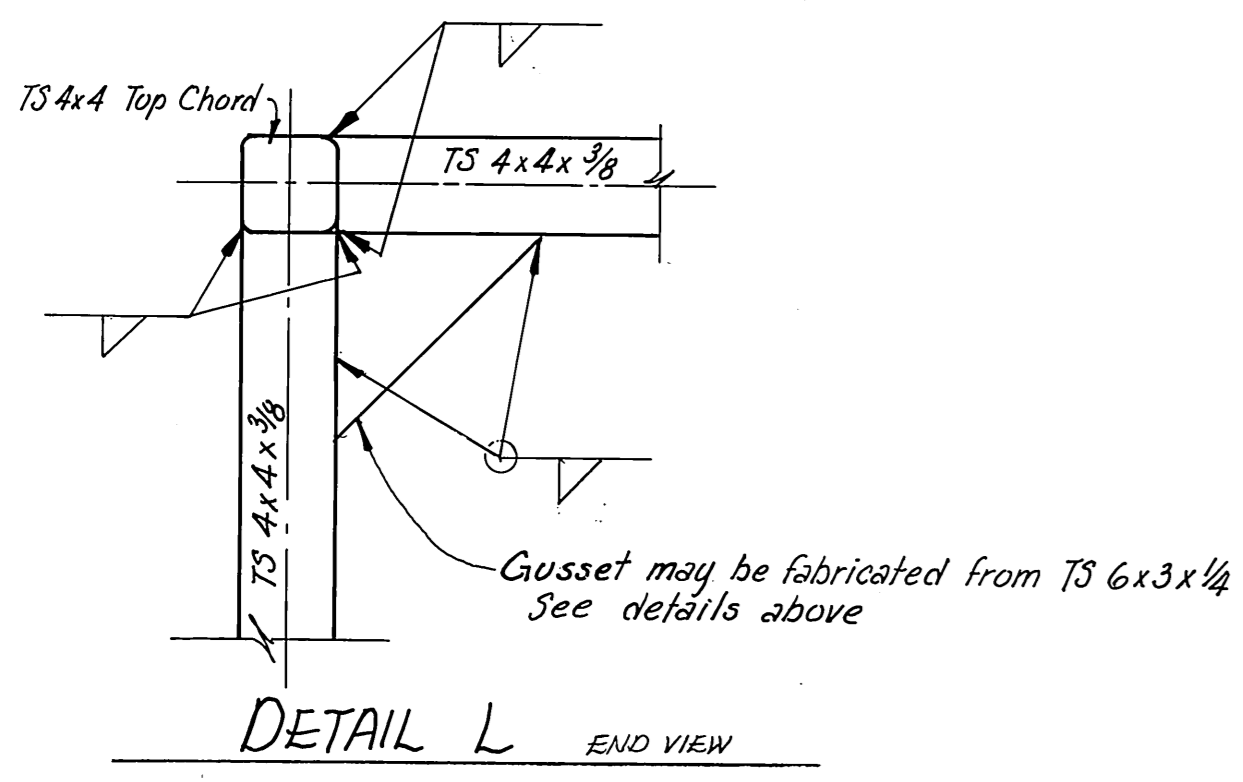
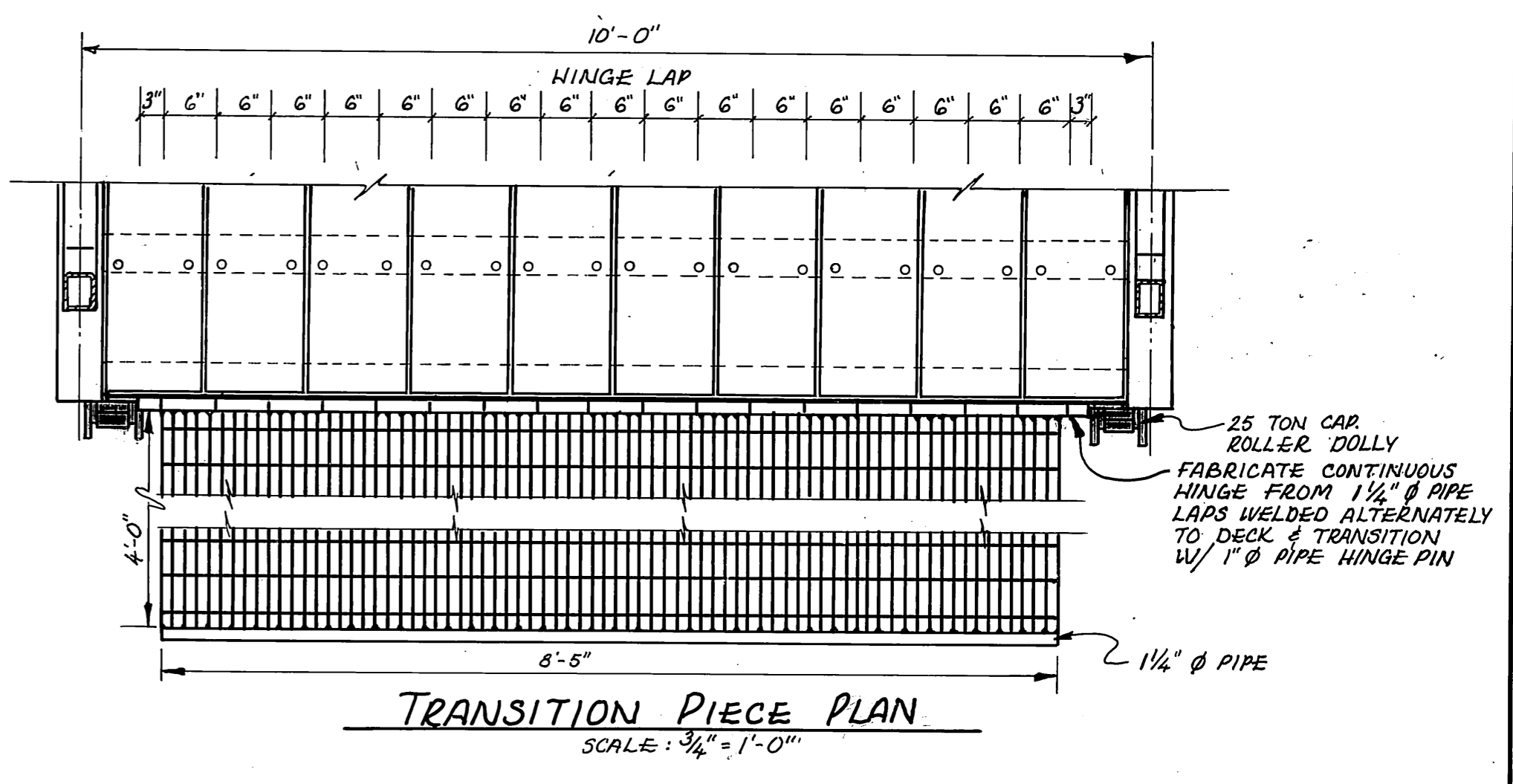
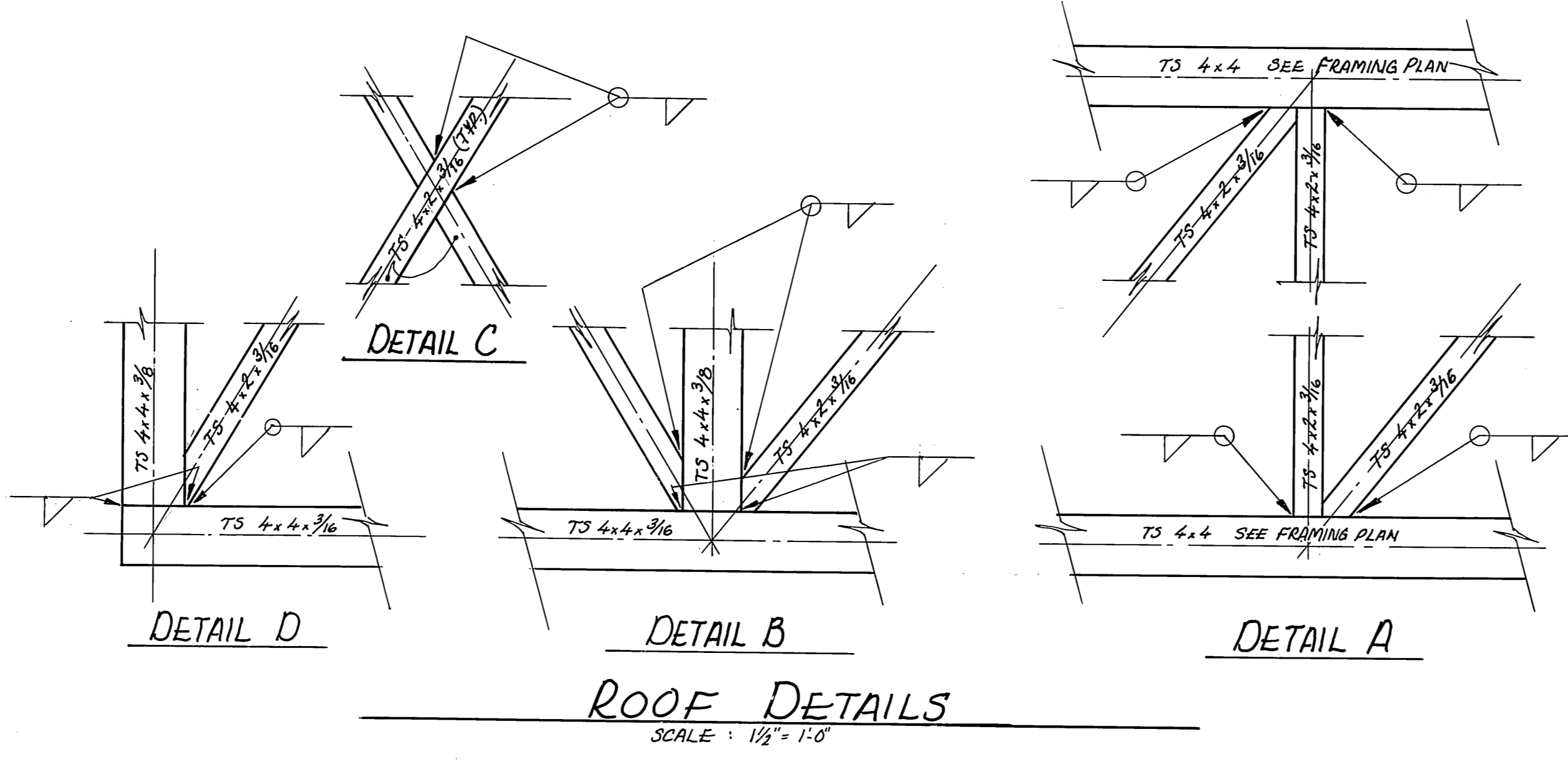
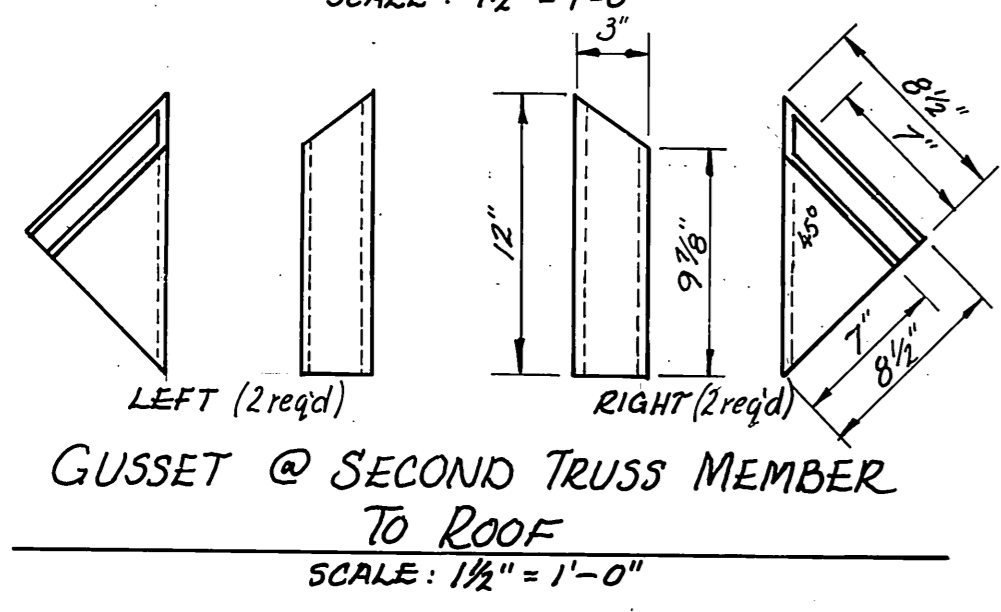
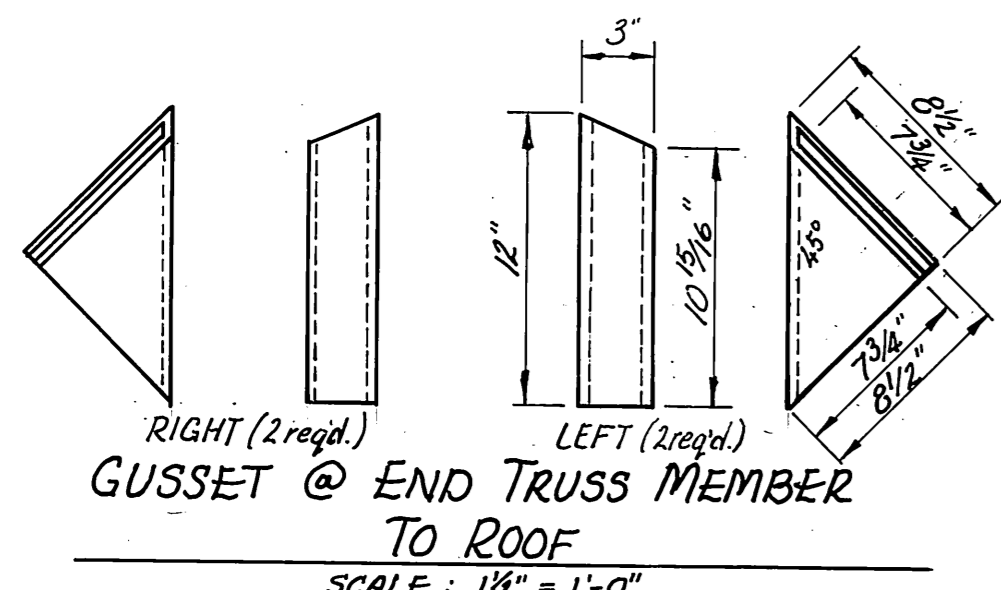


ELEVATION

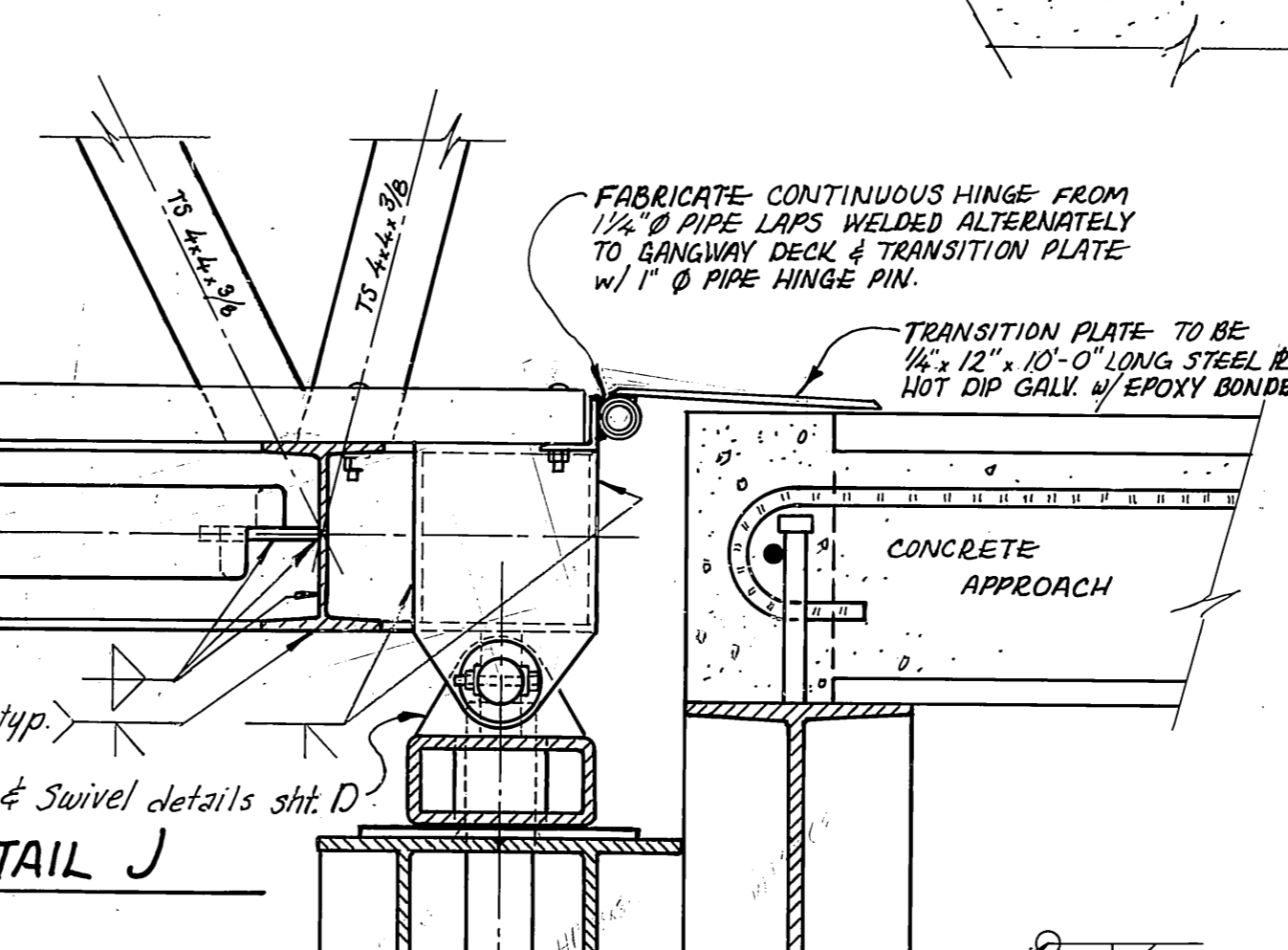
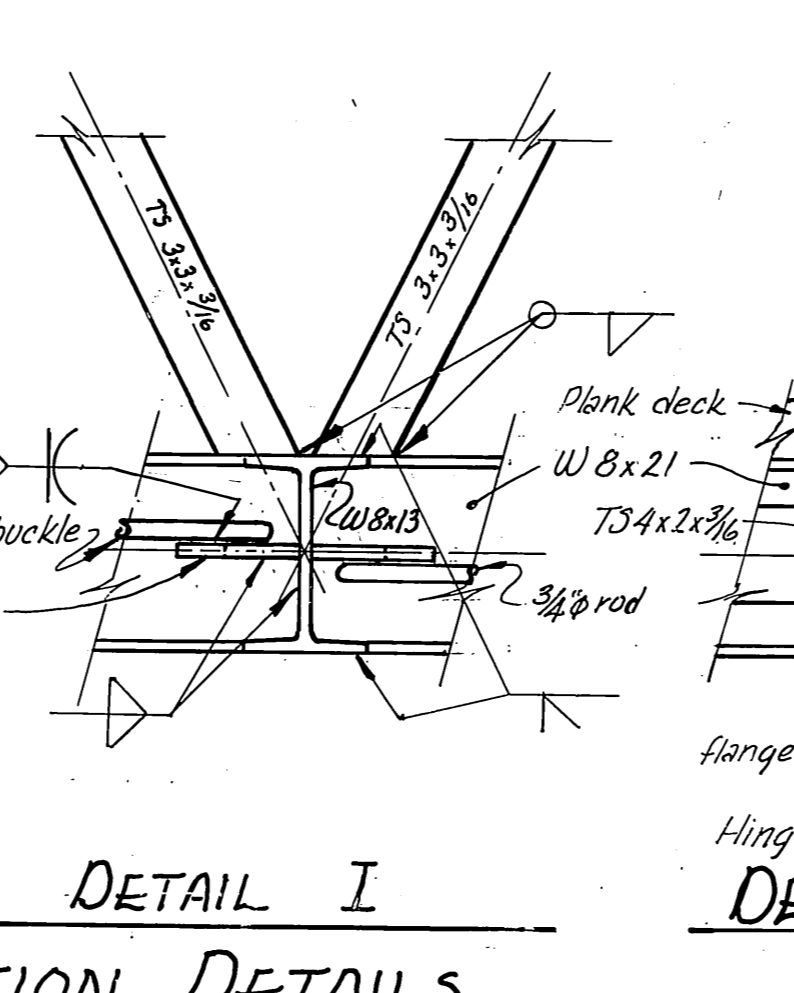
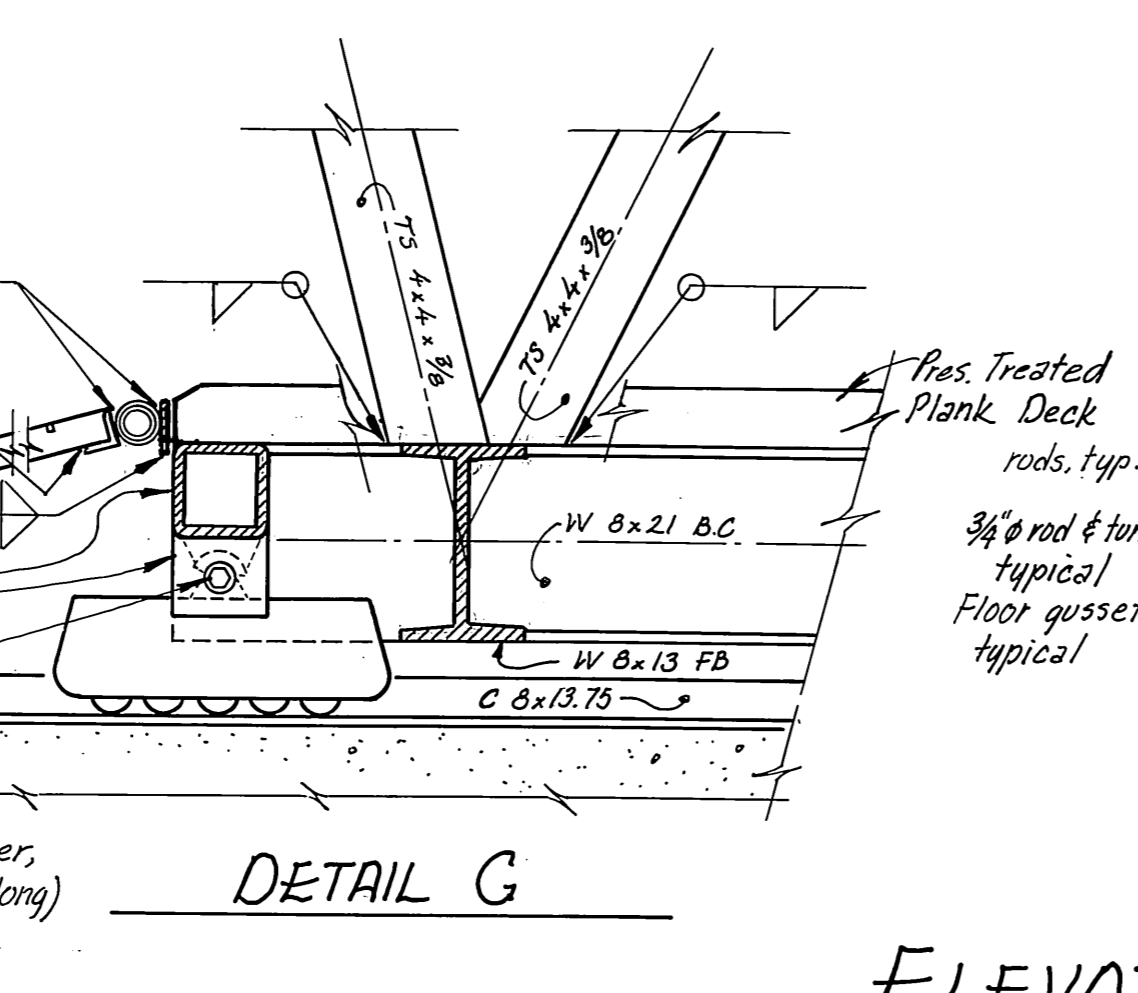
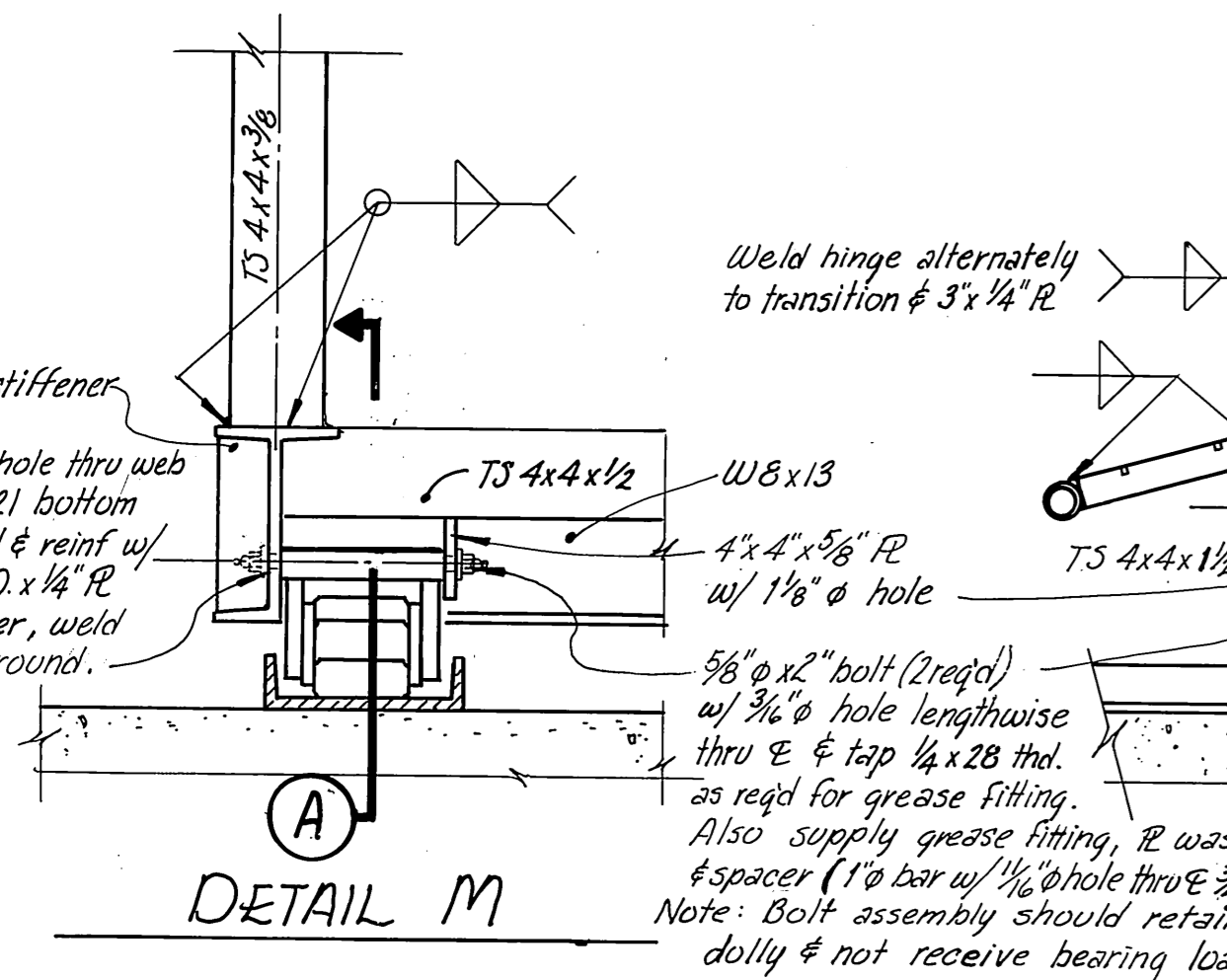


FLOOR FRAME PLAN

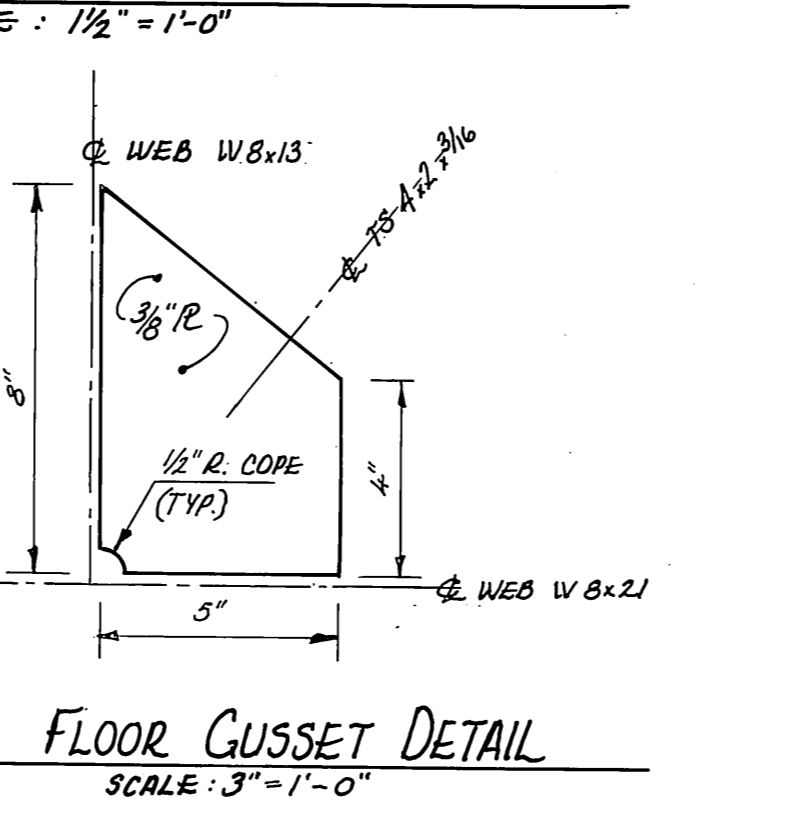
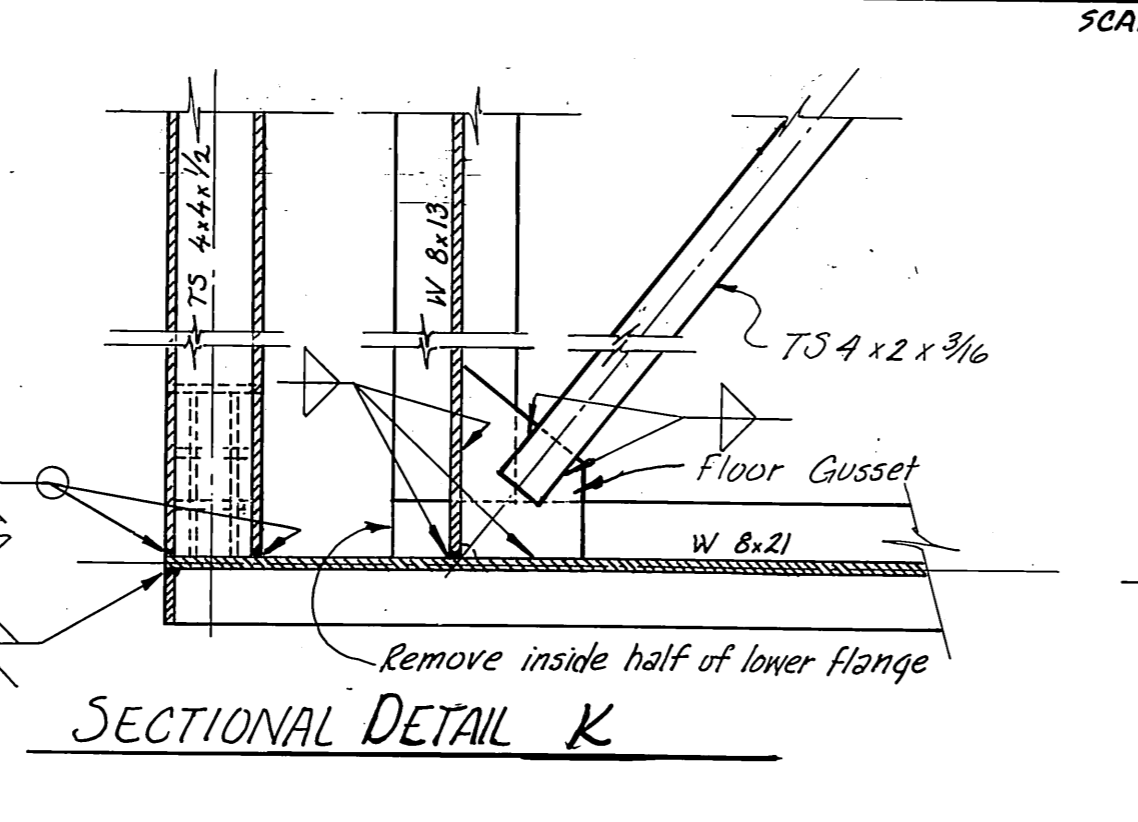
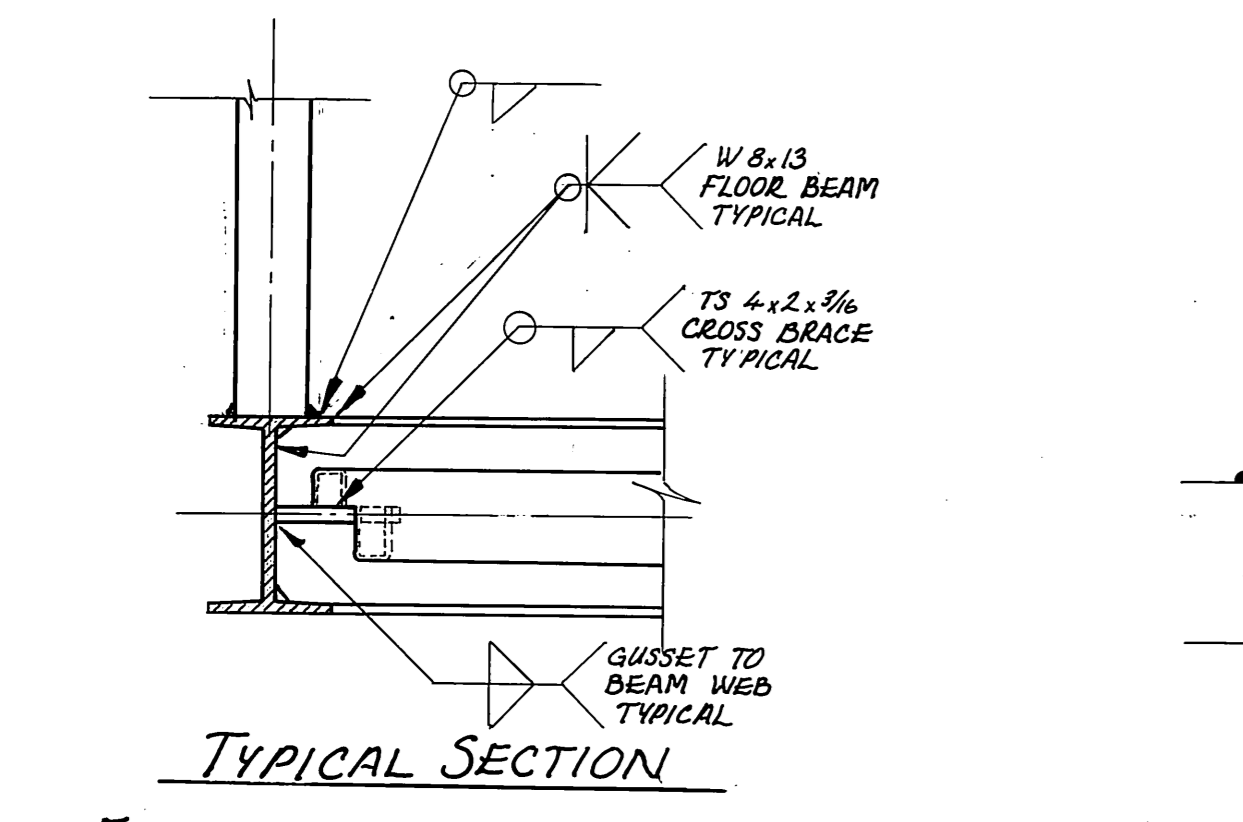
<p>STAMP</p>	DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
	ALUKE BAY ALASKA 10'x 96' GANGWAY FRAMING PLAN SHEET A		
	SCALE 1/4" = 1'-0"	SURVEYED	APPROVED
	DESIGNED HRM	DRAWN WmN	ROBERT P. BECK CHIEF OF DESIGN
CHECKED	DATE 6-81		
PROJECT NUMBER K 78180	SHEET 33 OF 41		



NOTE: TRANSITION GRATING SHALL HAVE: 1 1/4" x 3/16" SERIATED BEARING BARS 3/4" OC w/ twisted 1/4" SQ. CROSS BARS 4" OC. WALKING SURFACE TO HAVE SLIP-RESISTANT, EPOXY BONDED, GRIT SURFACE.



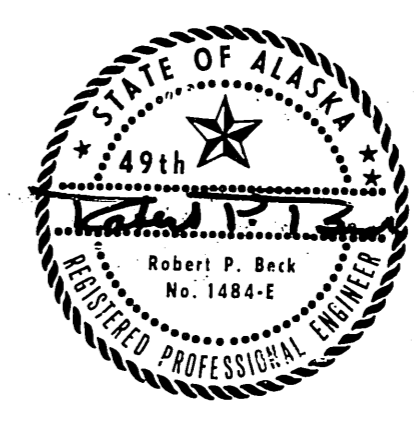
ELEVATION DETAILS
SCALE: 1 1/2" = 1'-0"



FLOOR DETAILS
SCALE: 1 1/2" = 1'-0"
See also details sh. D

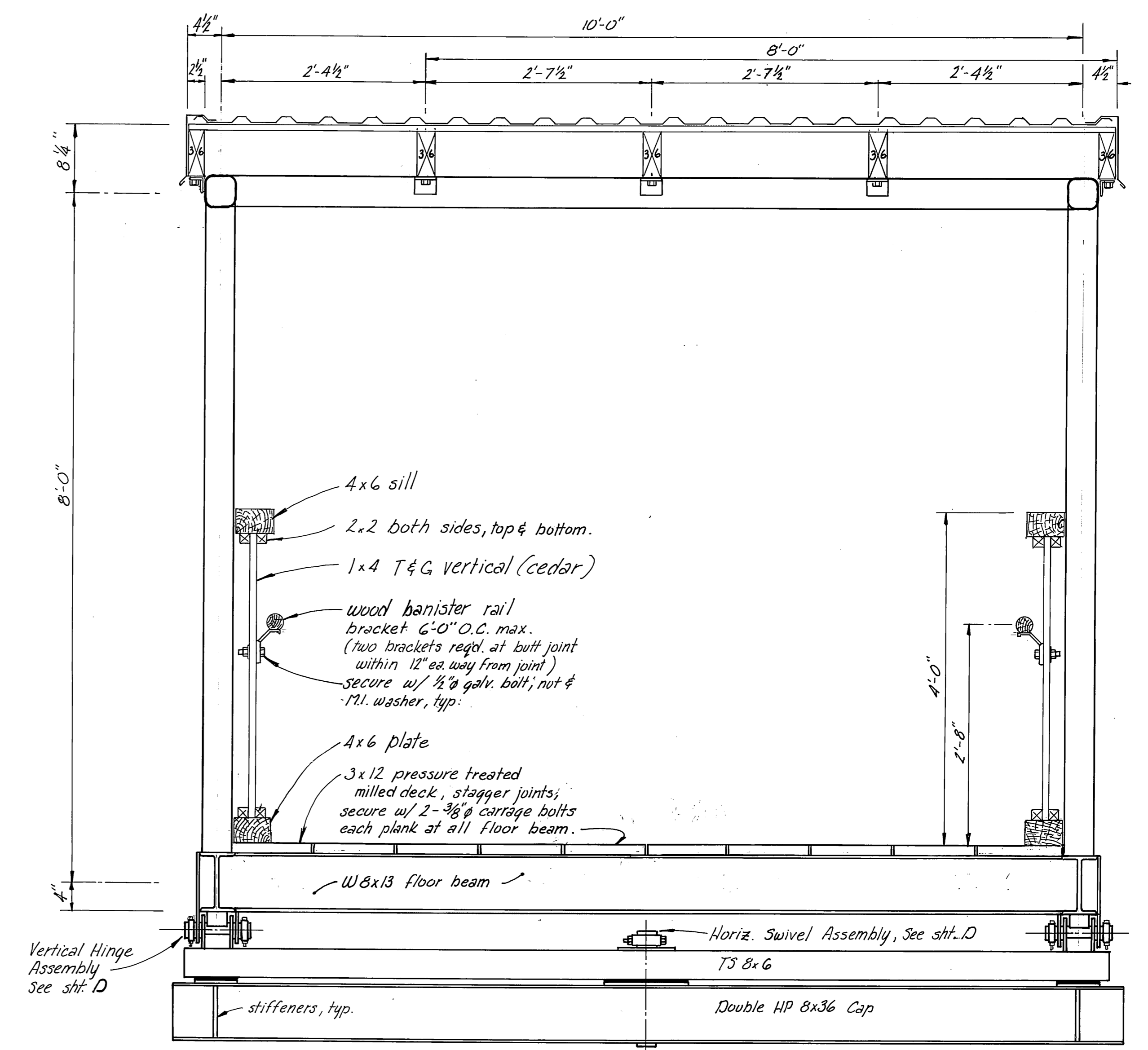
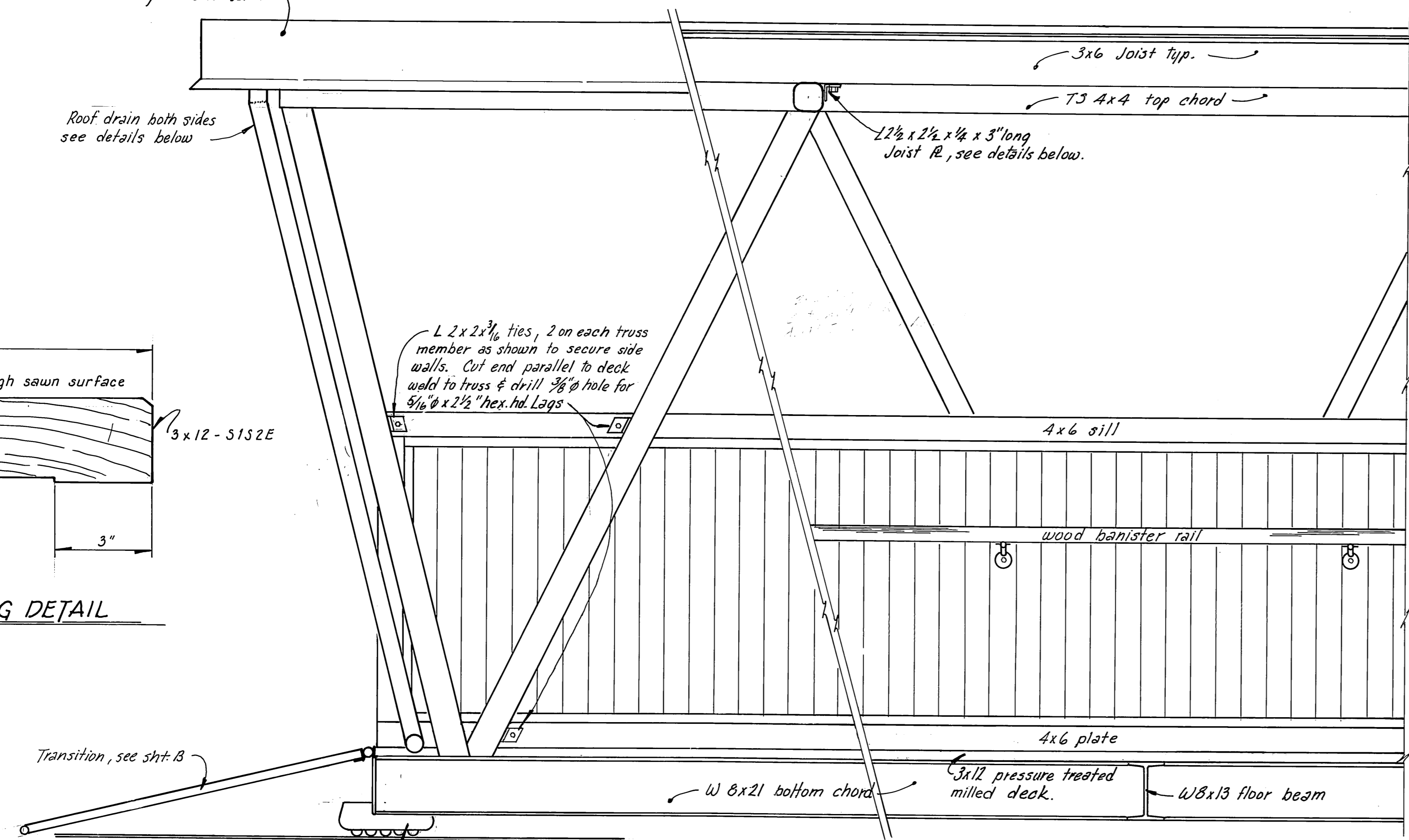
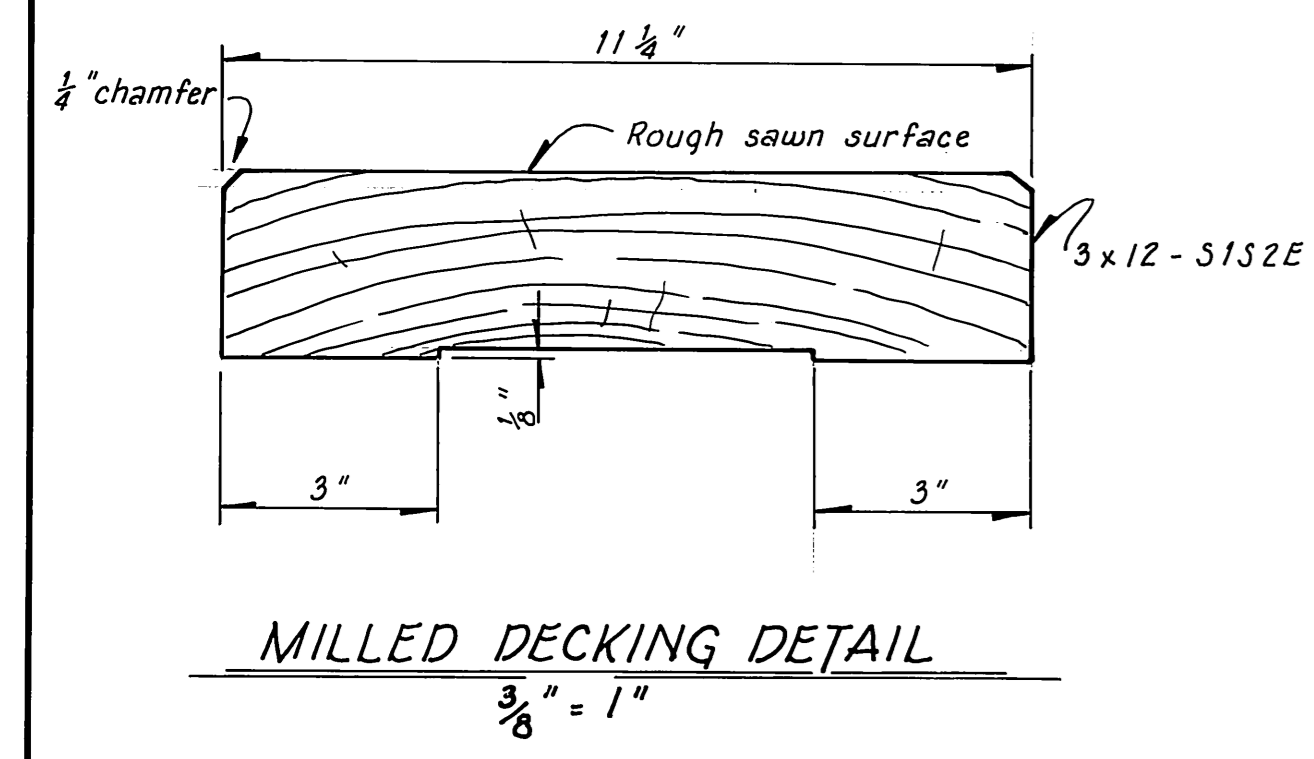
END ELEVATION DETAILS
SCALE: 1 1/2" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
10' x 96' GANGWAY DETAILS			
SHEET B			
SCALE: As Shown	SURVEYED: _____	APPROVED: _____	
DESIGNED: _____	DRAWN: WJN	Robert P. Beck CHIEF OF DESIGN	
CHECKED: JDB	DATE: Nov 91		
PROJECT NUMBER: K78180	SHEET: 36	OF 41	



Roof flashing, details below

Roof drain both sides see details below



Fabricate Basin from 20 ga. galv steel, fold lock seams and solder or hot-dip galv. after fabrication.

Flashing All Around, 28 ga. galv. & baked enamel finish.

3/4" Ext. Plywood, treat w/ pent's & stain to match other wood.

Shower type drain, solid bronze w/ 2" IPT, typ both sides (eliminate strainers)

Supply Split Ring M.I. Pipe Hangers Shall be hot-dip galv. & clamp tightly to 2" dia. stl. pipe, secure w/ 3/8" bolt to 2"x2"x3/4" Angle clip welded to truss.

2" dia. Std. galv. pipe.

ROOF DRAIN DETAILS

3" = 1'-0"

American Building Products Amer-X6 28 ga. galv. & baked enamel Steel Roofing or Equal.

Asphalt Felt

3/4" C-D Ext. Plywood

3x6 Joist, Typ.

Header as req'd., bevel to accommodate basin & nail w/ 16d. galv. nails.

Joist hangers & ties as req'd. see details sht. D

L 2 1/2 x 2 1/2 x 3/4 Joist R. 3" long all interior joists @ 8'-0" O.C. max., typ.

L 2 1/2 x 2 1/2 x 3/4 Angle 6" long Exterior Joist R., 4'-0" oc., typ.

Flashing Removed for clarity

JOIST CONNECTION DETAIL

3" = 1'-0"

3x6 Joist, Typical.

American Building Products Amer-X6 28 ga. Galv. & Baked Enamel Steel Roofing or Equal

Flashing All Around 28 ga. Galv. & Baked Enamel Modify to Accommodate Closure Strip At Top

Asphalt Felt

3/4" C-D Ext. Plywood

Header, see details sht. D

3/8" x 3" Hex. Hd. Lag Screws

2 1/2 x 2 1/2 x 3/4 Angle 6" Long Joist Plate 4'-0" o.c. (Typ.)

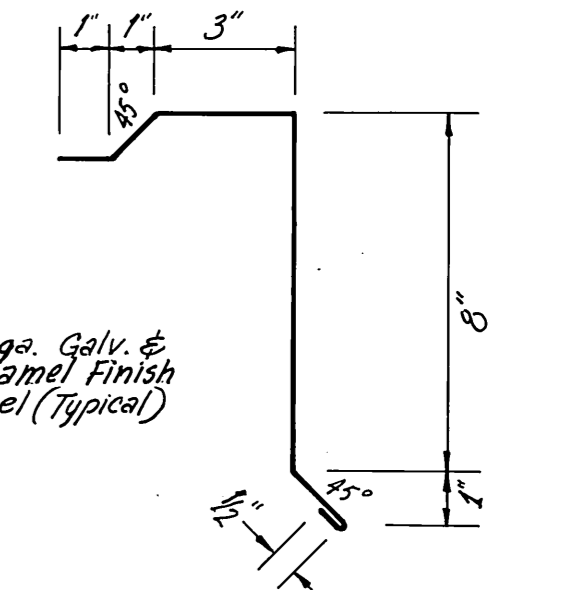
L 2 1/2 x 2 1/2 x 3/4 Joist R. 3" long all interior joists @ 8'-0" O.C. max., typical

SECTION @ TOP CHORD

3" = 1'-0"

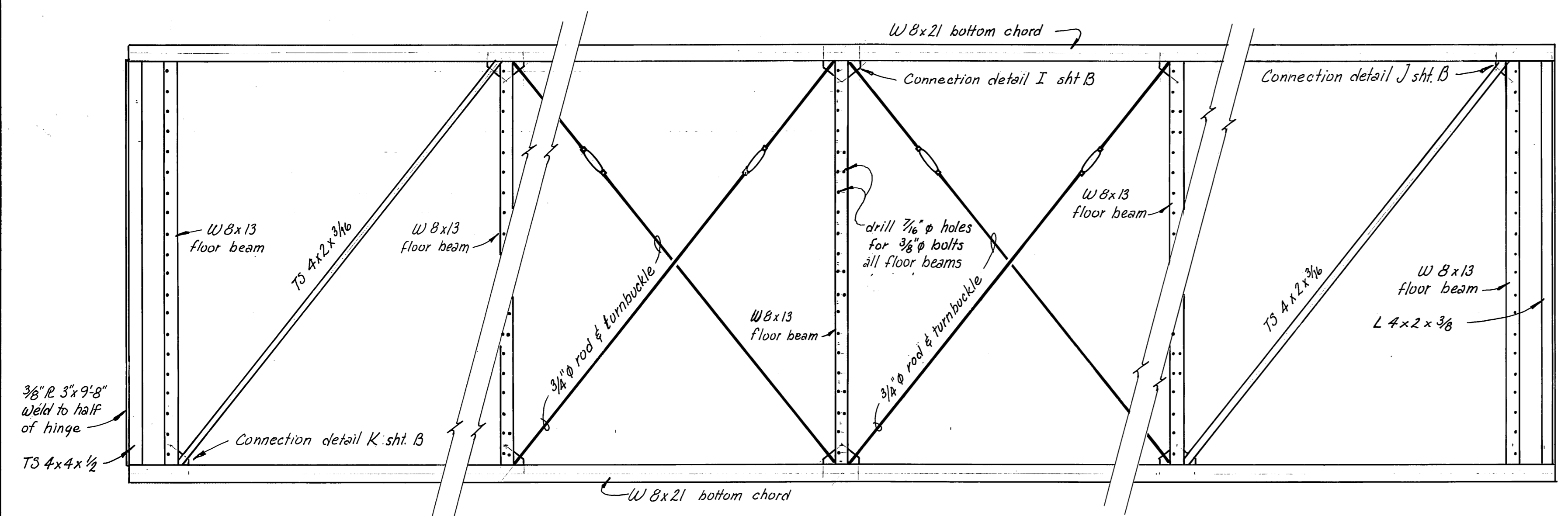
TYPICAL CROSS-SECTION

1" = 1'-0"

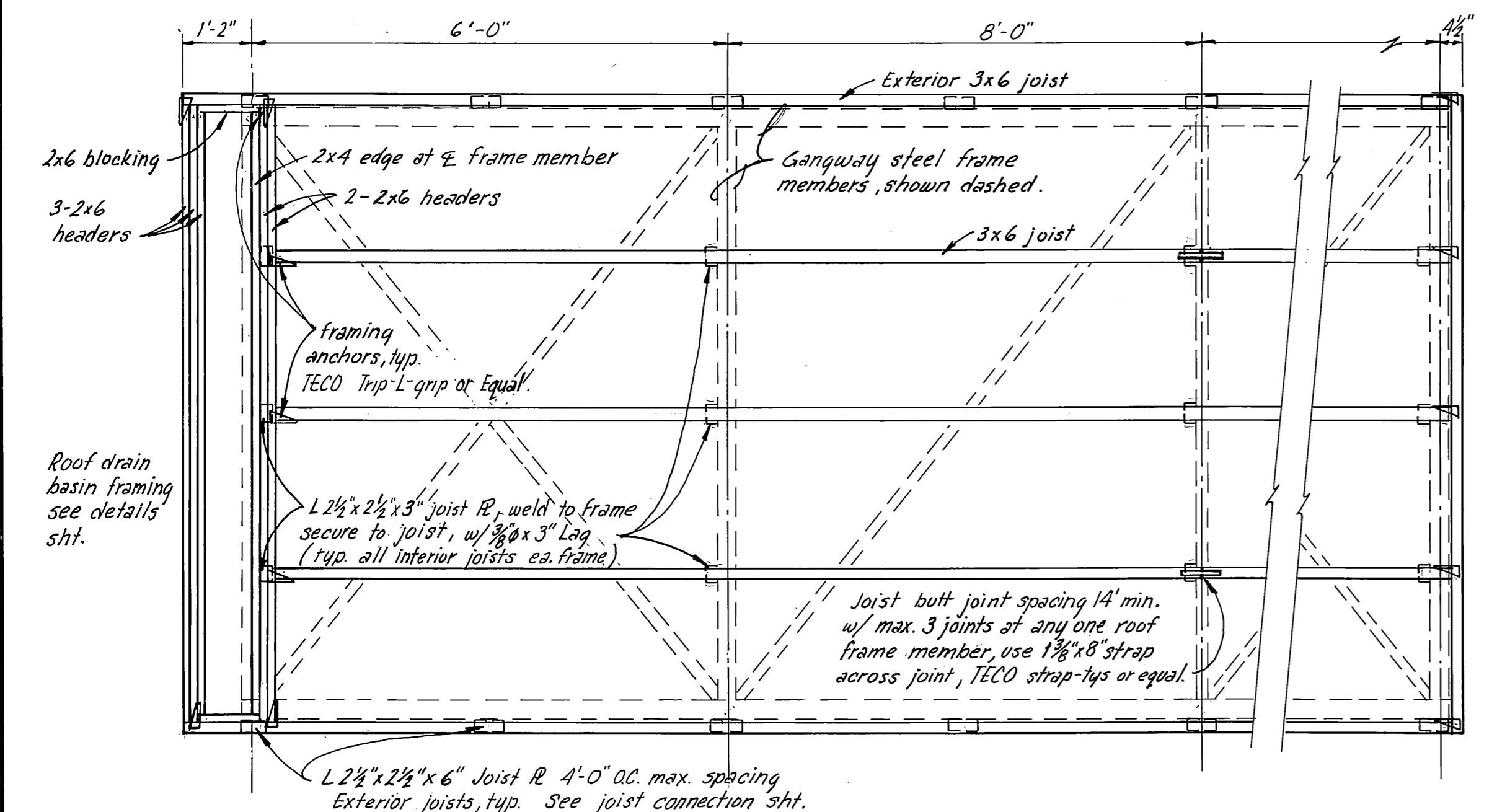


Note: All timber S4S except where noted.

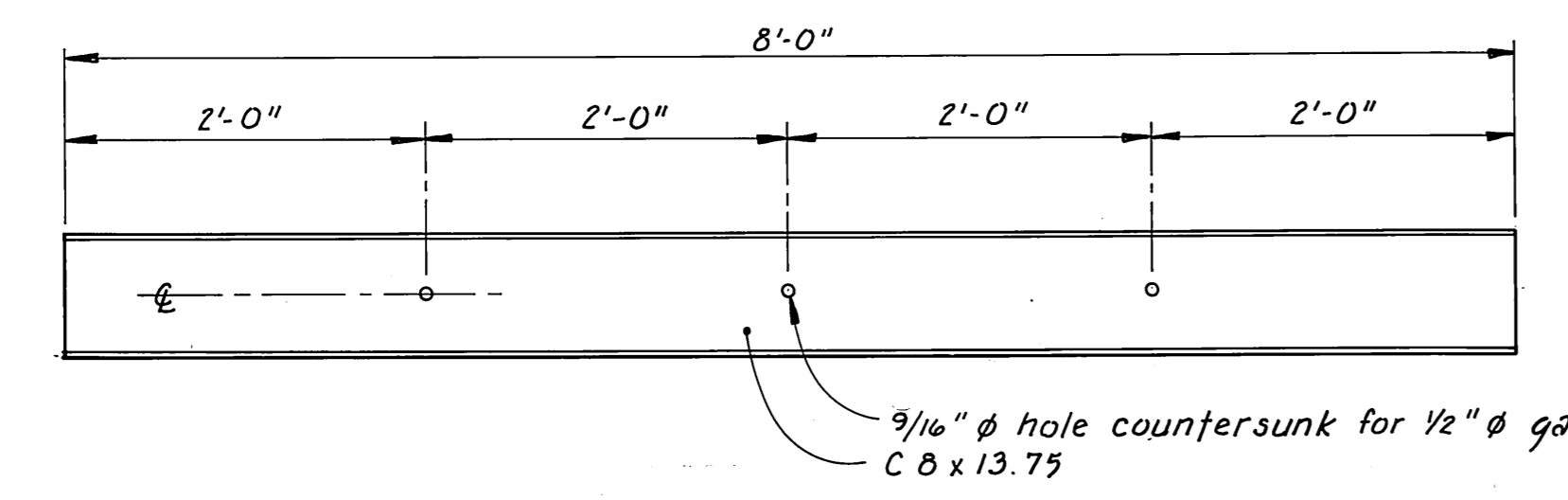
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Auke Bay Alaska 10' x 96' COVERED GANGWAY SHEET C	
SCALE: As Shown DESIGNED: JDB CHECKED: JDB	SURVEYED: JDB DRAWN: JDB DATE: Nov. 81	APPROVED: Robert P. Beck
PROJECT NUMBER: K 78180	SHEET: 37 OF 41	



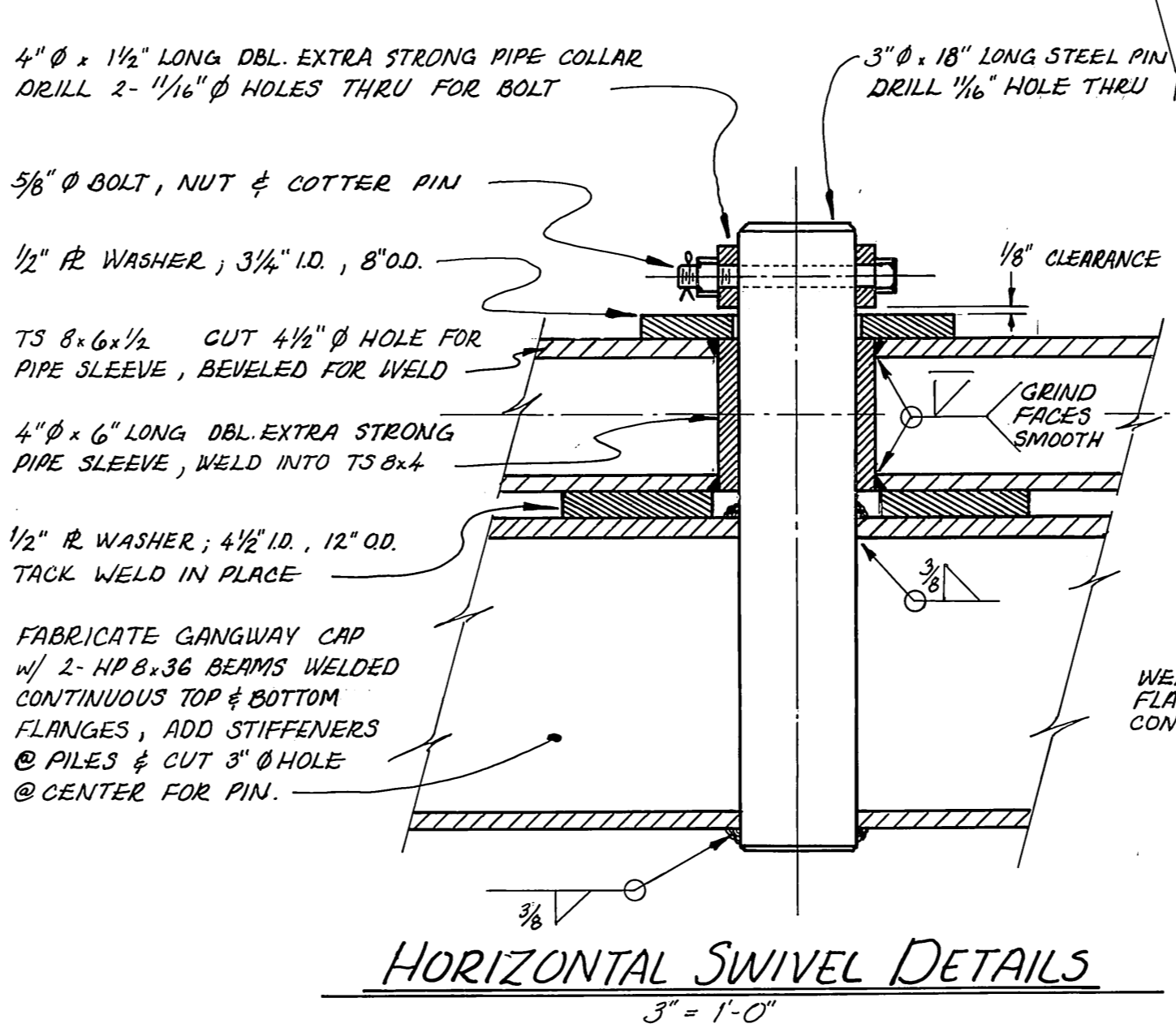
PARTIAL FLOOR LAYOUT
1/2" = 1'-0"



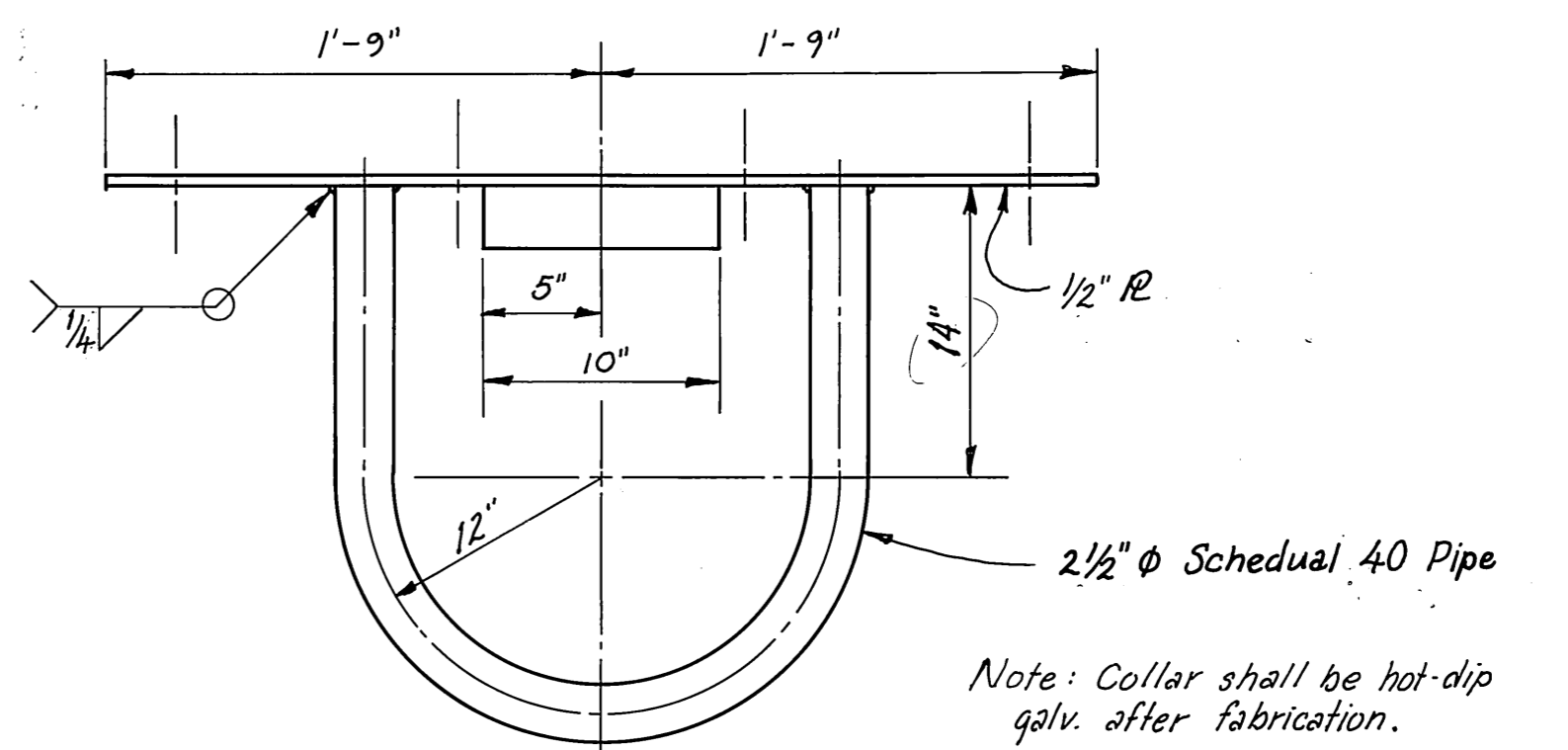
ROOF JOIST FRAMING DETAILS
1" = 1'-0"



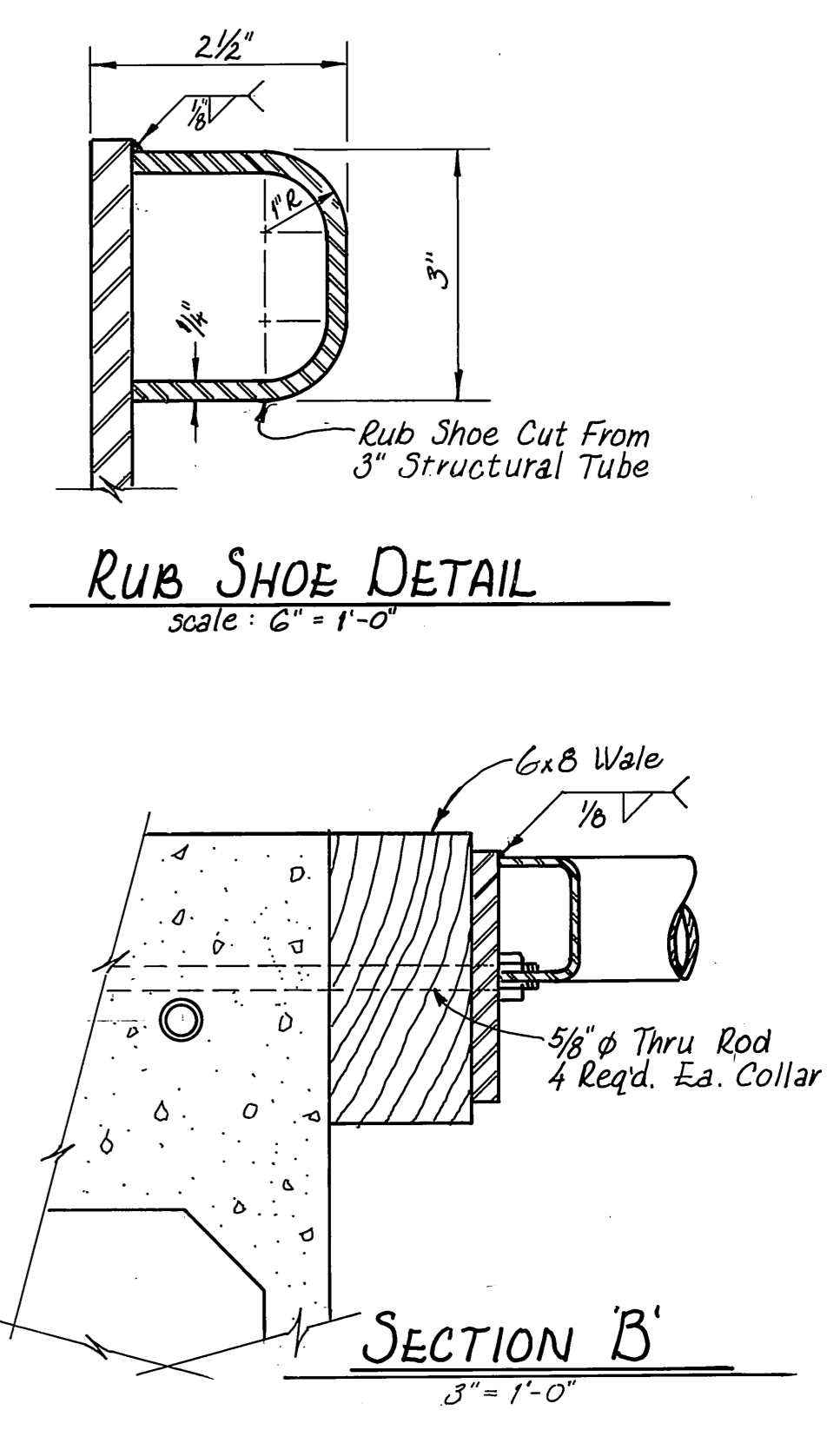
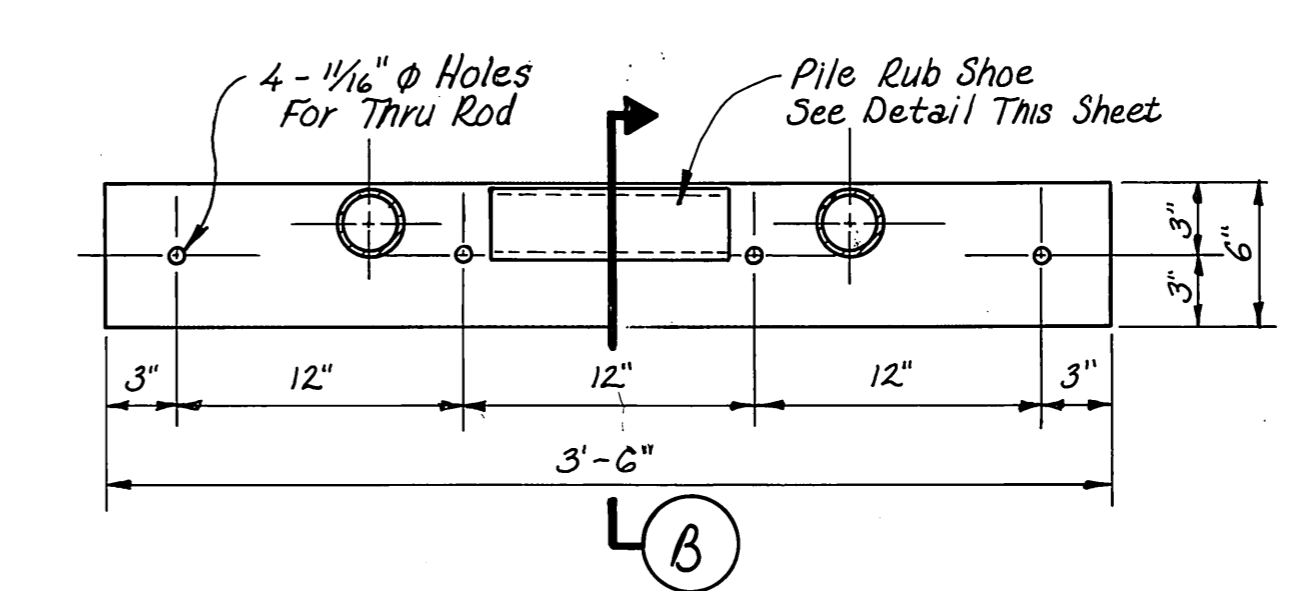
GANGWAY GUIDERAIL DETAIL
1" = 1'-0"



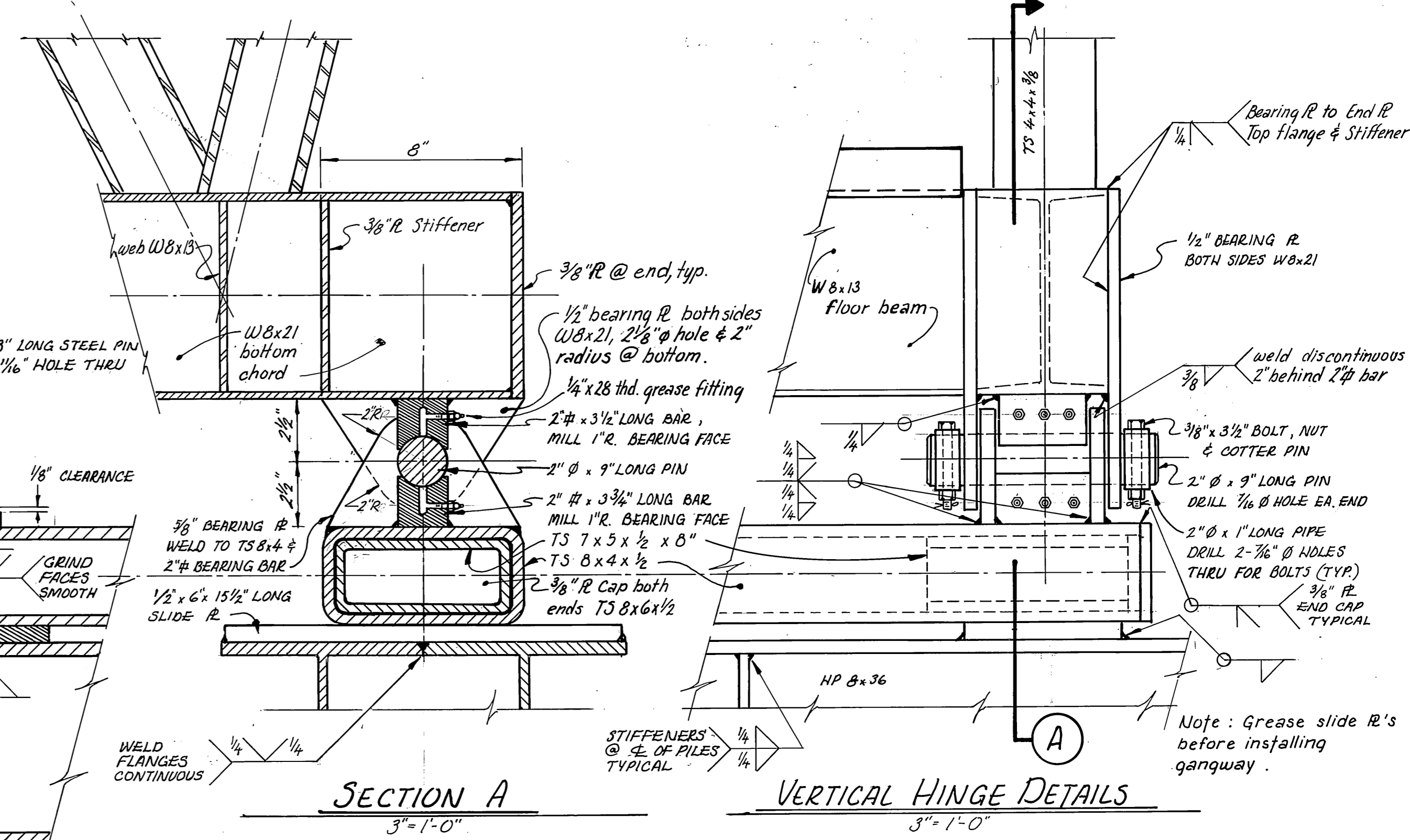
HORIZONTAL SWIVEL DETAILS
3" = 1'-0"



EXTERIOR PILE COLLAR (1 Req'd.)
scale: 1 1/2" = 1'-0"



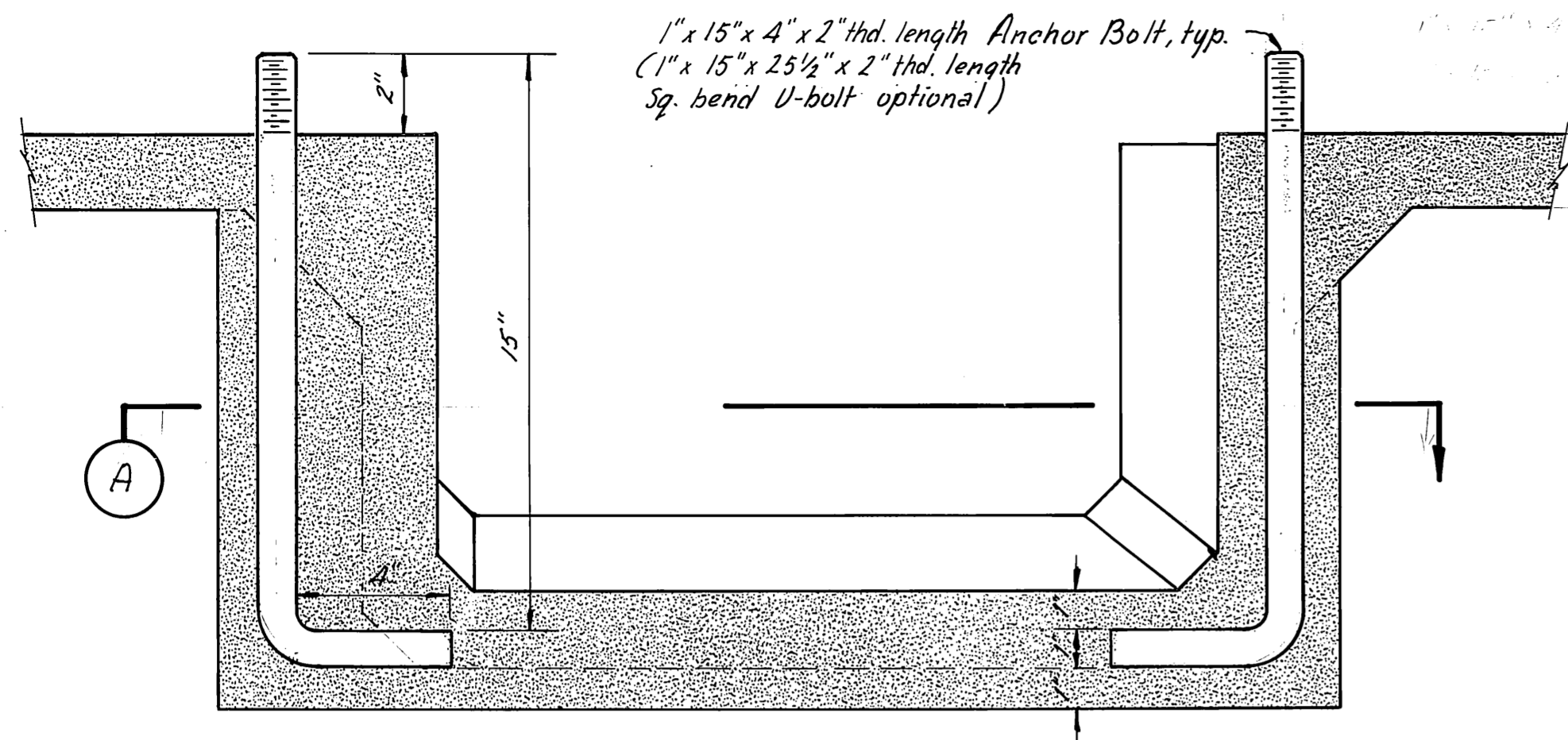
RUB SHOE DETAIL
scale: 6" = 1'-0"



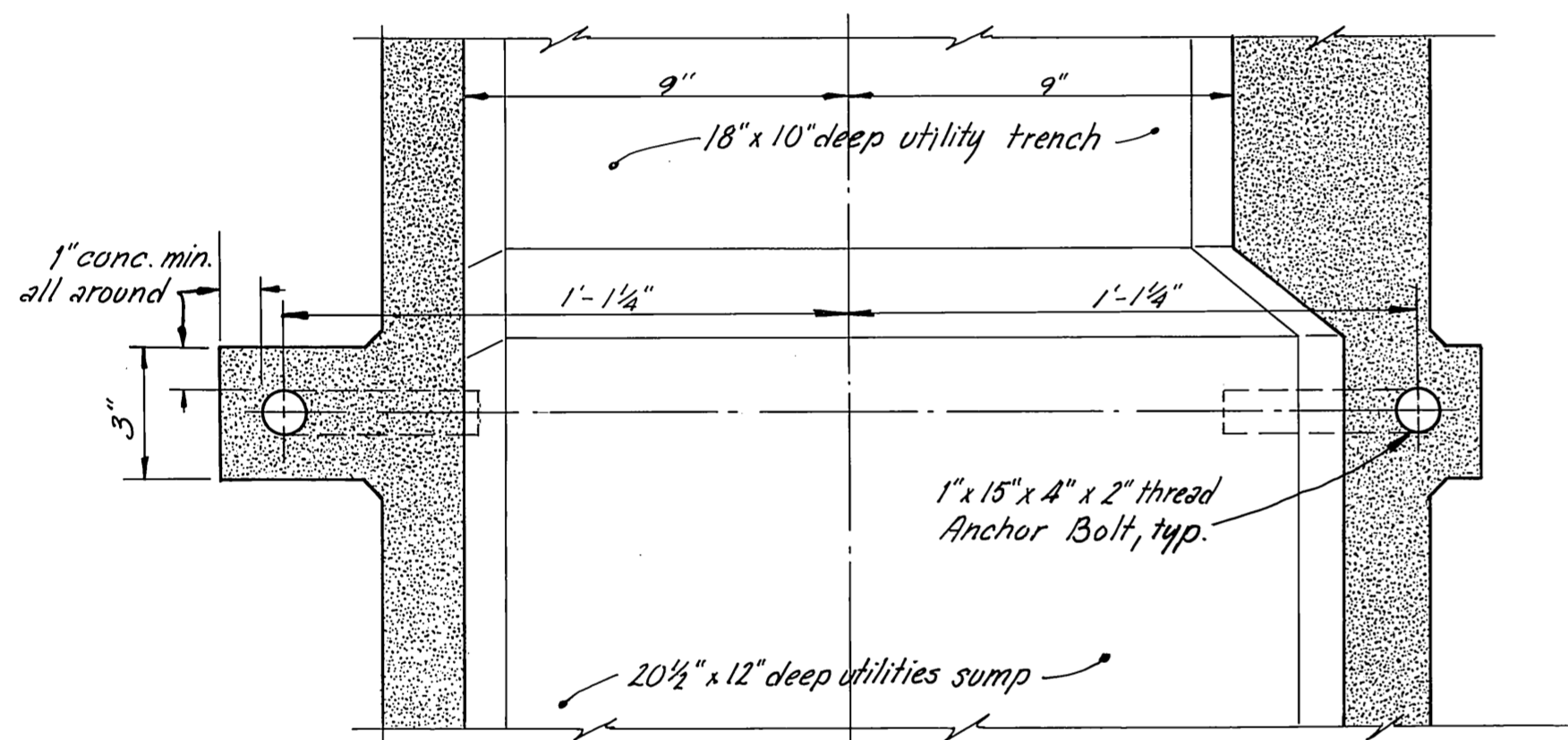
SECTION A
3" = 1'-0"

VERTICAL HINGE DETAILS
3" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		AUKE BAY ALASKA	
<p>Misc. Float and Gangway Details SHEET D</p>		SCALE AS SHOWN	SURVEYED
DESIGNED	DRAWN WmN	CHECKED JDB	DATE 11/81
PROJECT NUMBER K 78180		APPROVED Robert P. Beck CHIEF OF DESIGN	
SHEET 38 OF 41			

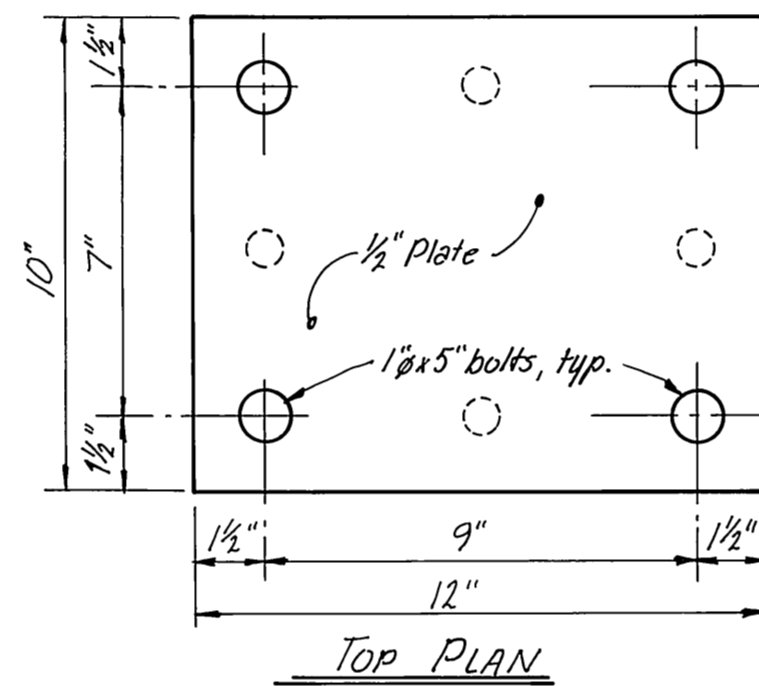


SECTION AT UTILITY CABINET ANCHOR BOLTS
3" = 1'-0"

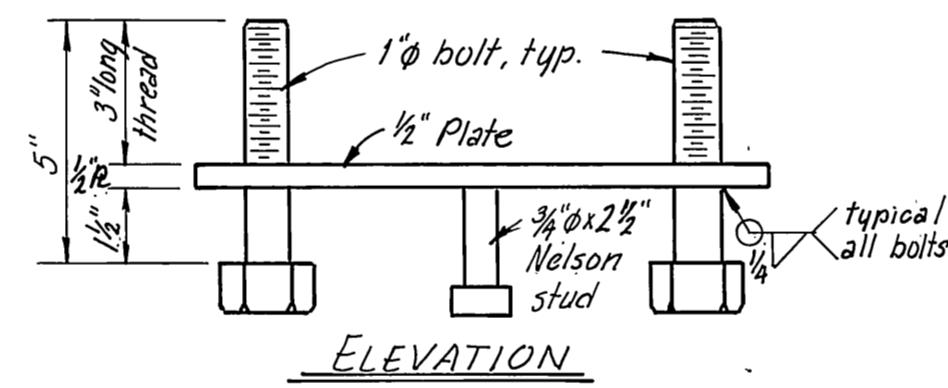


SECTION A
3" = 1'-0"

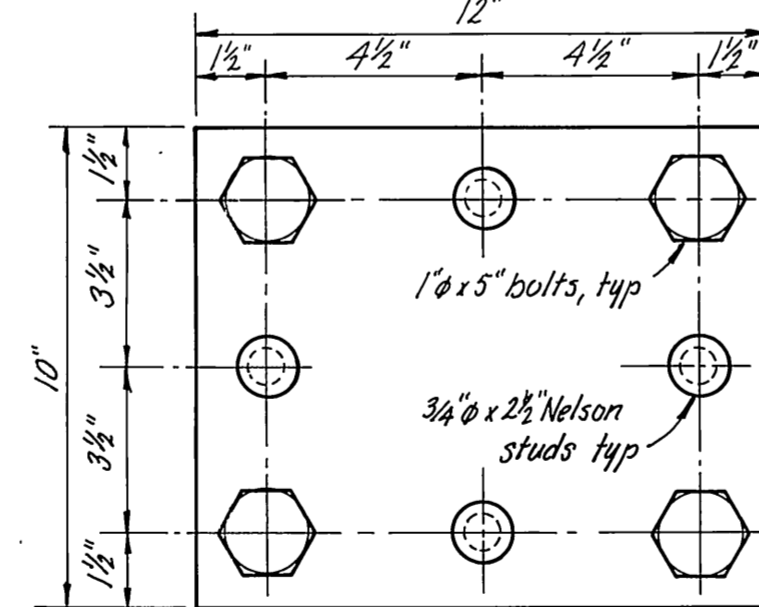
NOTE: Assembly shall be hot-dip galvanized after fabrication.



TOP PLAN

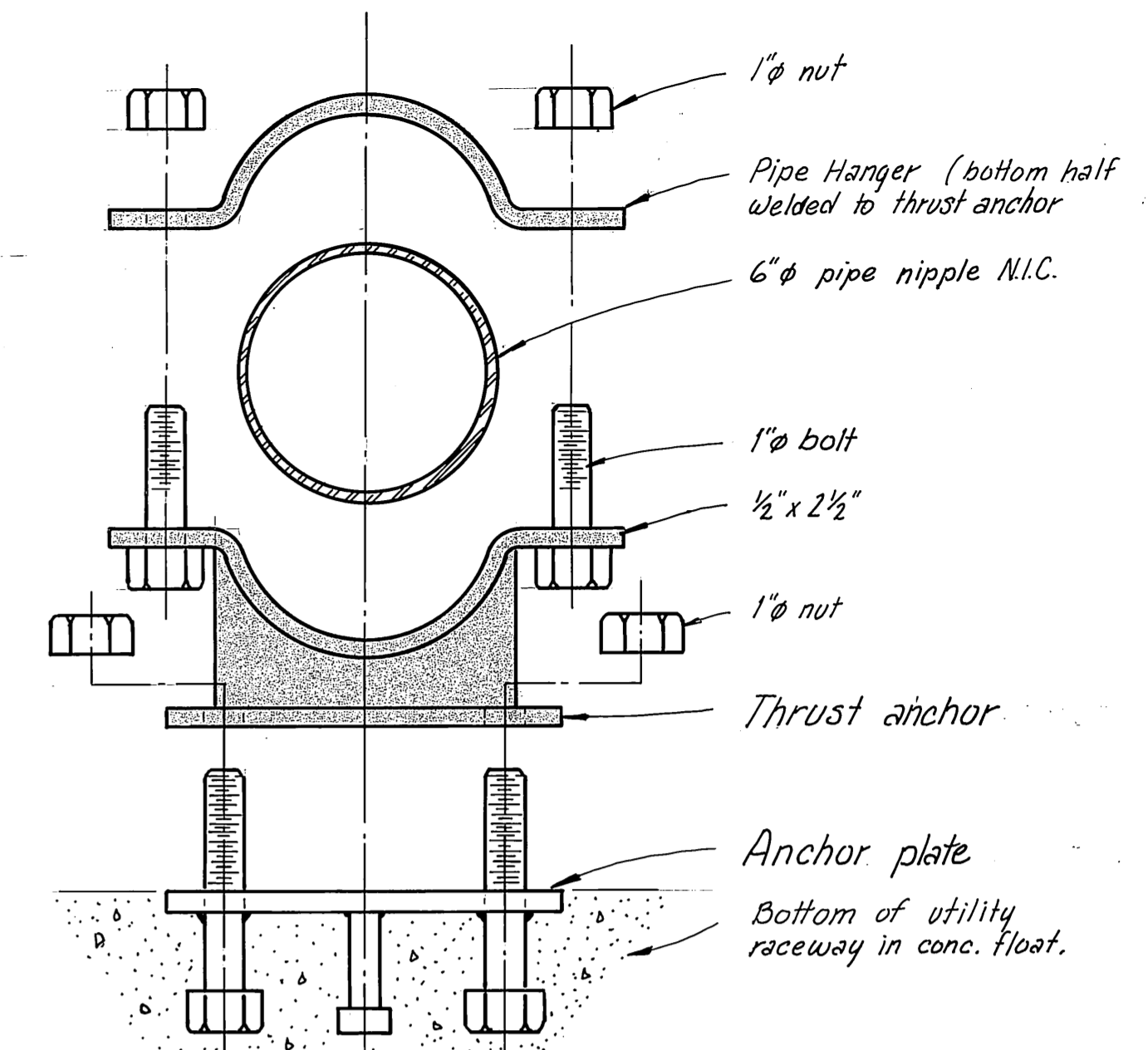


ELEVATION

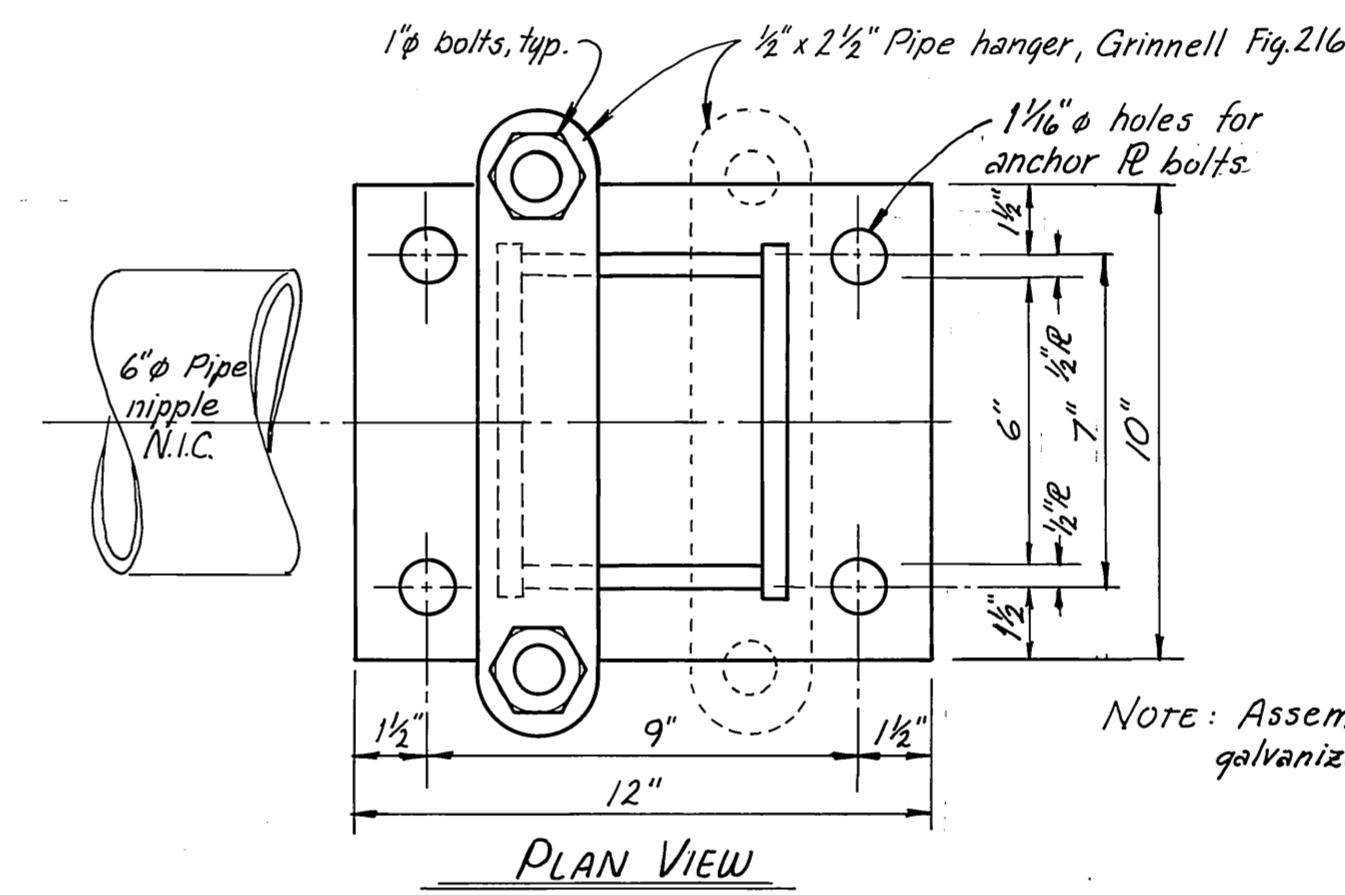


BOTTOM PLAN

ANCHOR PLATE DETAILS
3" = 1'-0"

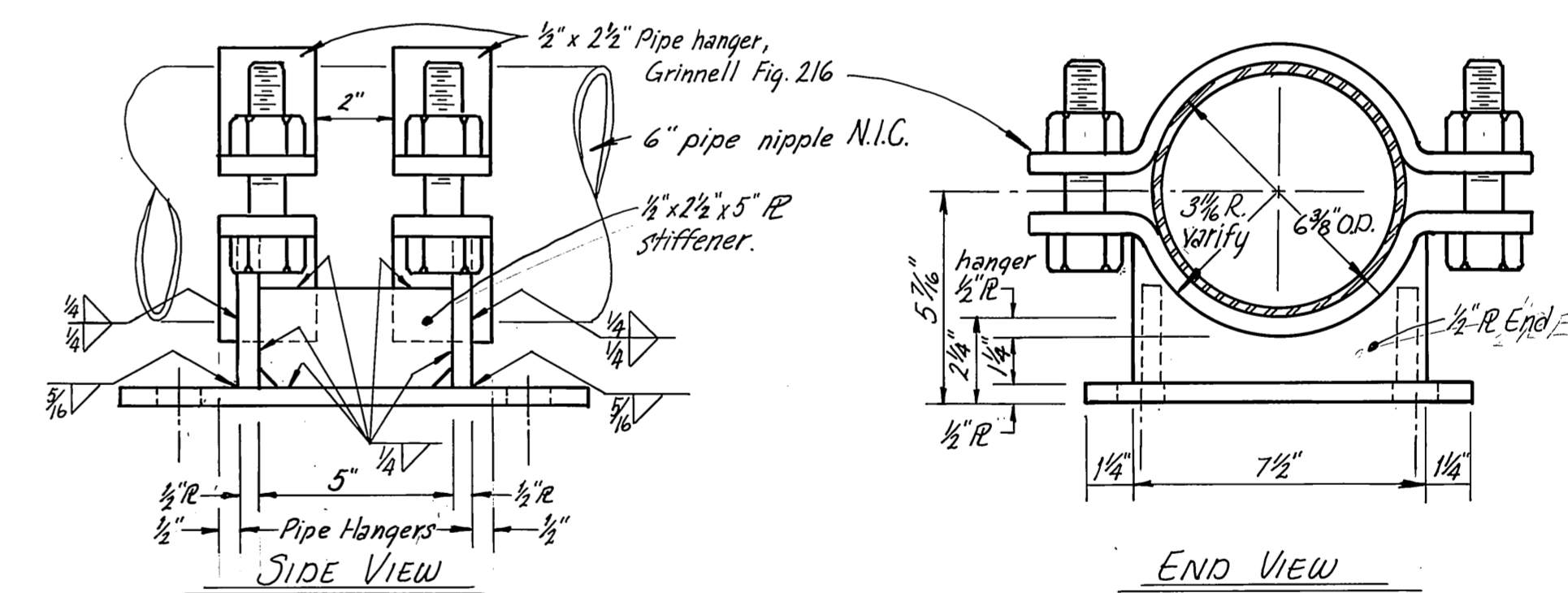


EXPLODED ANCHOR ASSEMBLY
3" = 1'-0"



PLAN VIEW

NOTE: Assembly shall be hot-dip galvanized after fabrication.

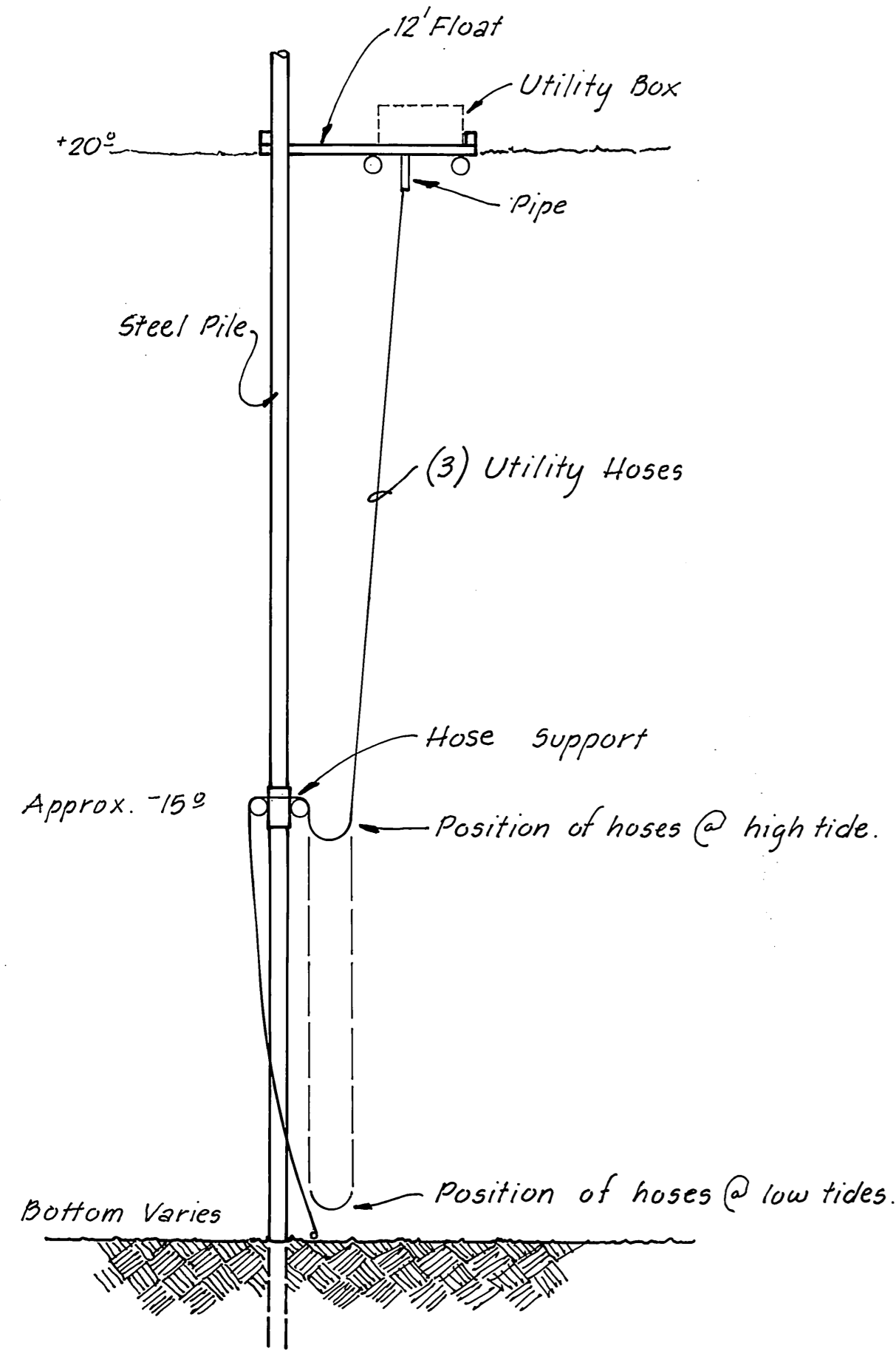


SIDE VIEW

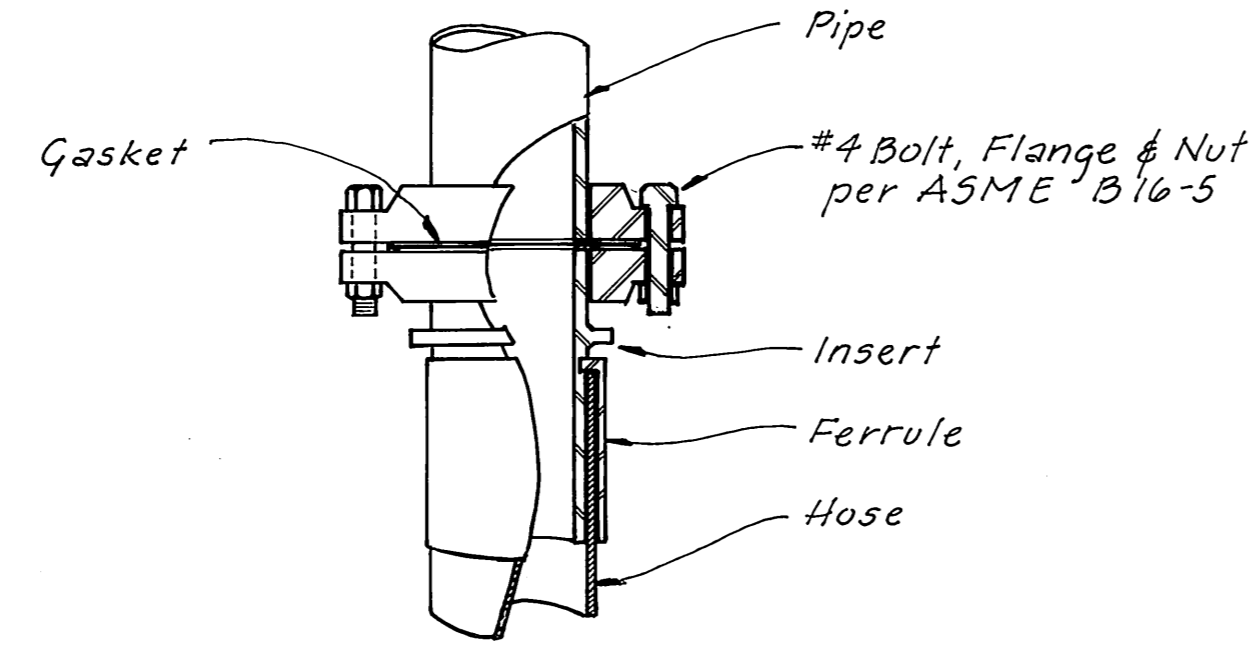
END VIEW

THRUST ANCHOR DETAILS
3" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Auke Bay Alaska MISCELLANEOUS DETAILS	
SCALE <i>As shown</i>	SURVEYED	APPROVED <i>Robert P. Beck</i>	
DESIGNED	DRAWN <i>WIN</i>		
CHECKED <i>JOB</i>	DATE <i>12/81</i>		
PROJECT NUMBER <i>K 78180</i>	SHEET <i>40</i> OF <i>41</i>		



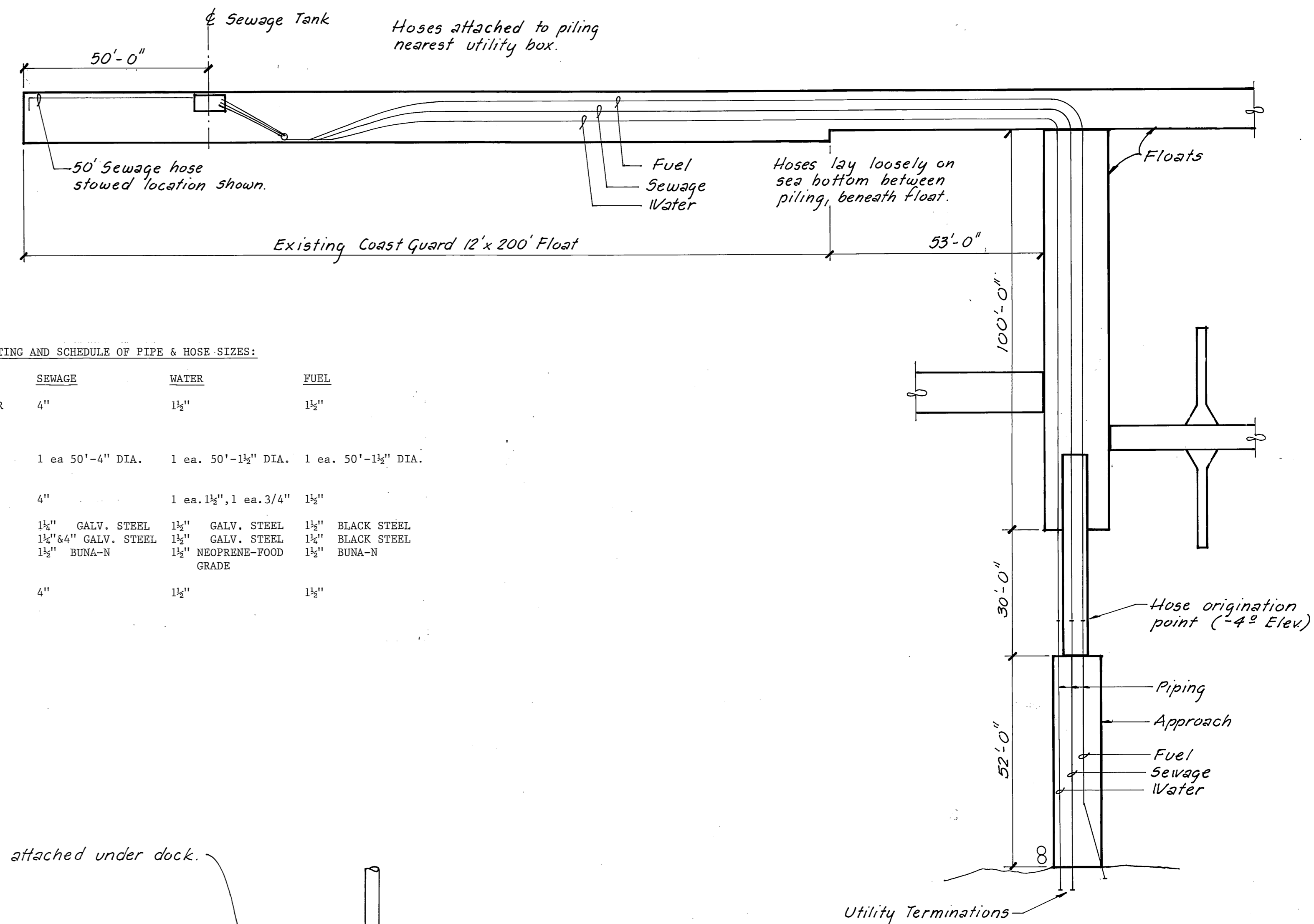
ELEVATION
1/8" = 1'-0"



HOSE TO PIPE CONNECTION
No Scale

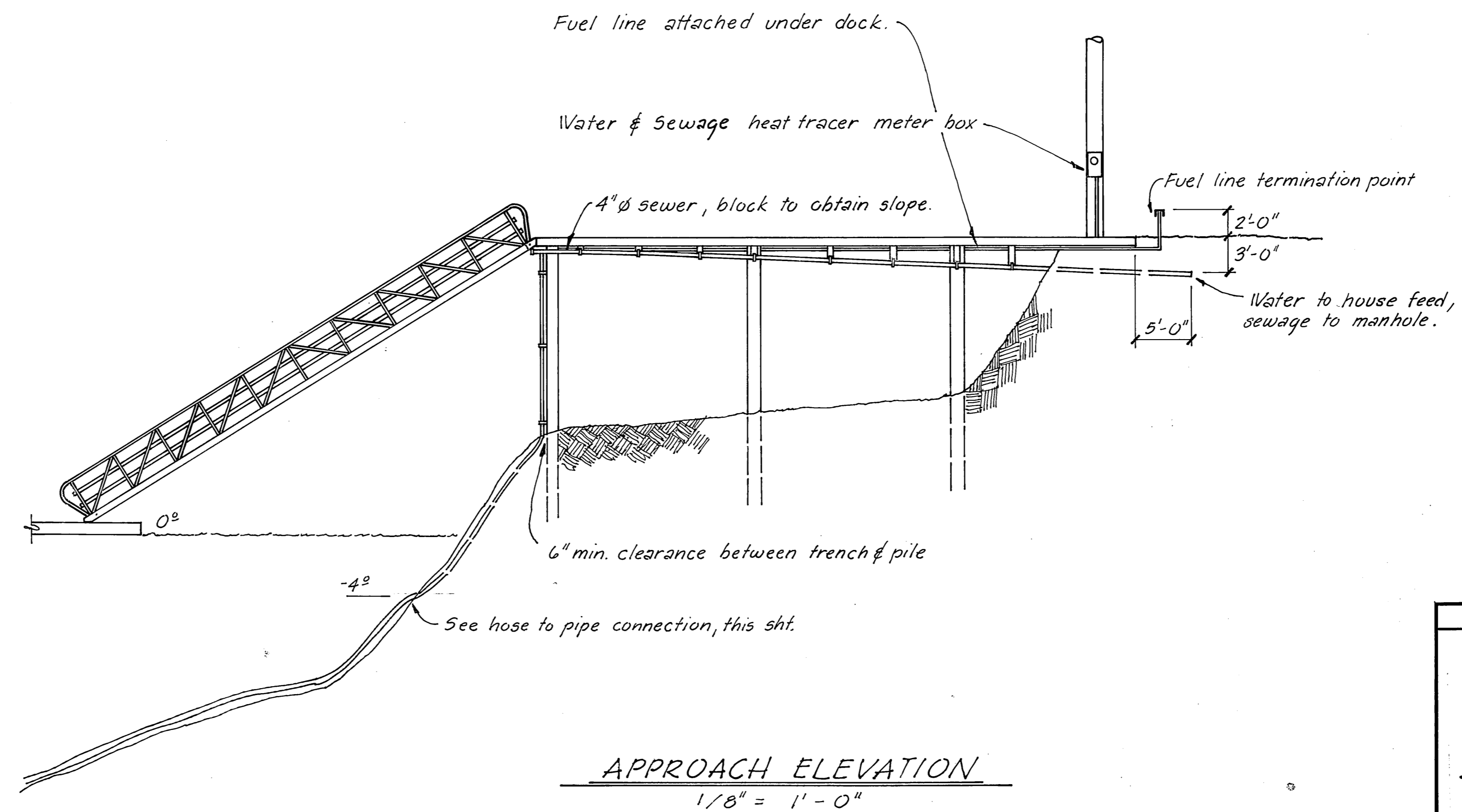
VESSEL TO SHORE ROUTING AND SCHEDULE OF PIPE & HOSE SIZES:

ITEM	SEWAGE	WATER	FUEL
VESSEL TERMINAL (FOR INFORMATION ONLY; NOT IN CONTRACT)	4"	1 1/2"	1 1/2"
VESSEL CONNECTING HOSE DIAMETER	1 ea 50'-4" DIA.	1 ea. 50'-1 1/2" DIA.	1 ea. 50'-1 1/2" DIA.
FLOAT CONNECTIONS	4"	1 ea. 1 1/2", 1 ea. 3/4"	1 1/2"
FLOAT PIPING SYSTEM	1 1/2" GALV. STEEL	1 1/2" GALV. STEEL	1 1/2" BLACK STEEL
DOCK PIPING SYSTEM	1 1/2" 84" GALV. STEEL	1 1/2" GALV. STEEL	1 1/2" BLACK STEEL
SHORE CONNECTING HOSE	1 1/2" BUNA-N	1 1/2" NEOPRENE-FOOD GRADE	1 1/2" BUNA-N
SHORE TERMINAL	4"	1 1/2"	1 1/2"



EXISTING UNDERWATER UTILITIES
1" = 20'

Note: Drawings from U.S. Coast Guard Engineering As-builts for existing CG Float. Information only, contractor to verify conditions.



APPROACH ELEVATION
1/8" = 1'-0"

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Auke Bay Alaska EXISTING UTILITY DETAILS	
SCALE <u>As Noted</u> DESIGNED _____ CHECKED _____	SURVEYED _____ DRAWN <u>JTM</u> DATE <u>12.81</u>	APPROVED <u>Robert P Beck</u>
PROJECT NUMBER <u>K 78180</u>	SHEET <u>41</u> OF <u>41</u>	