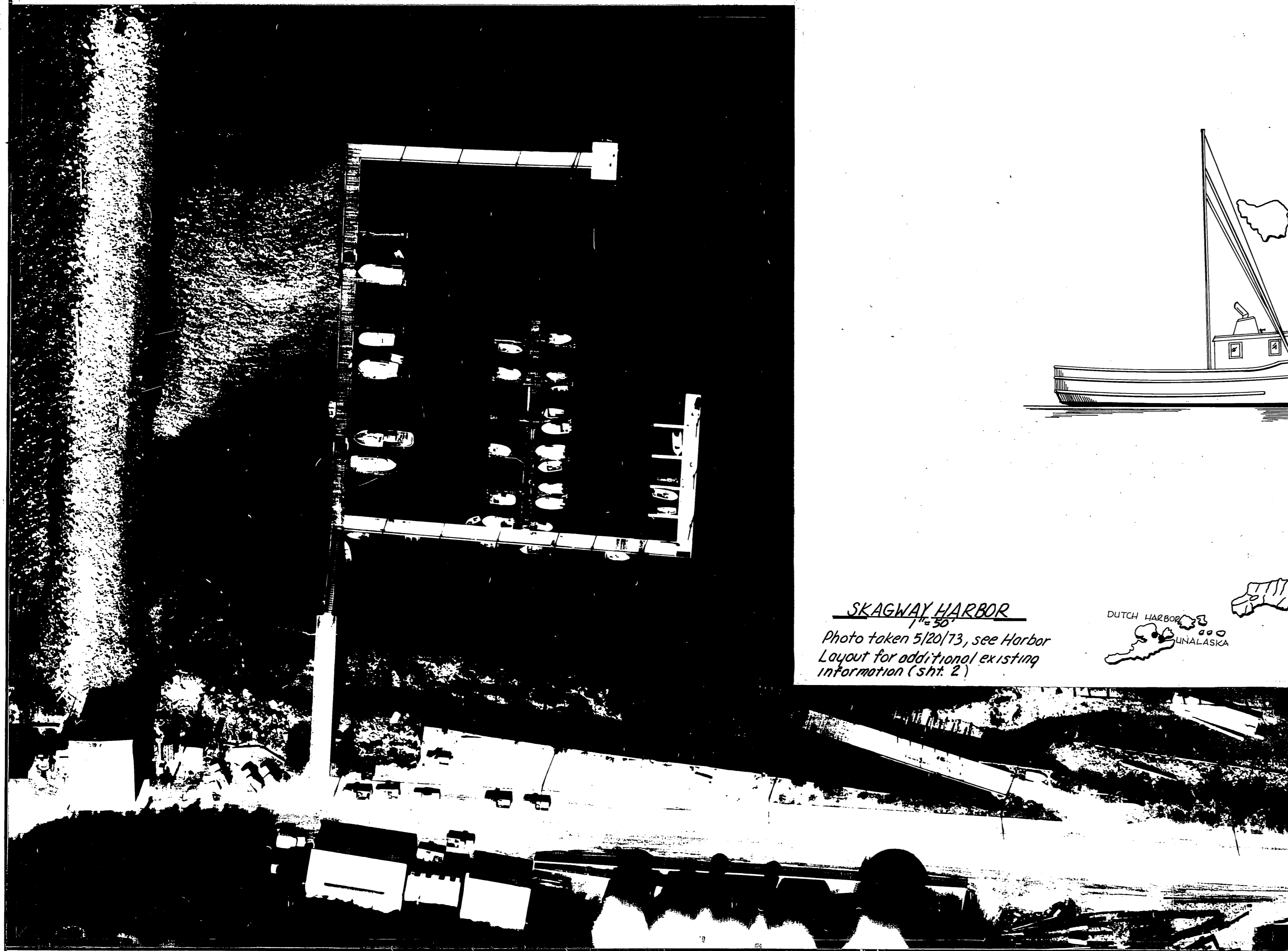
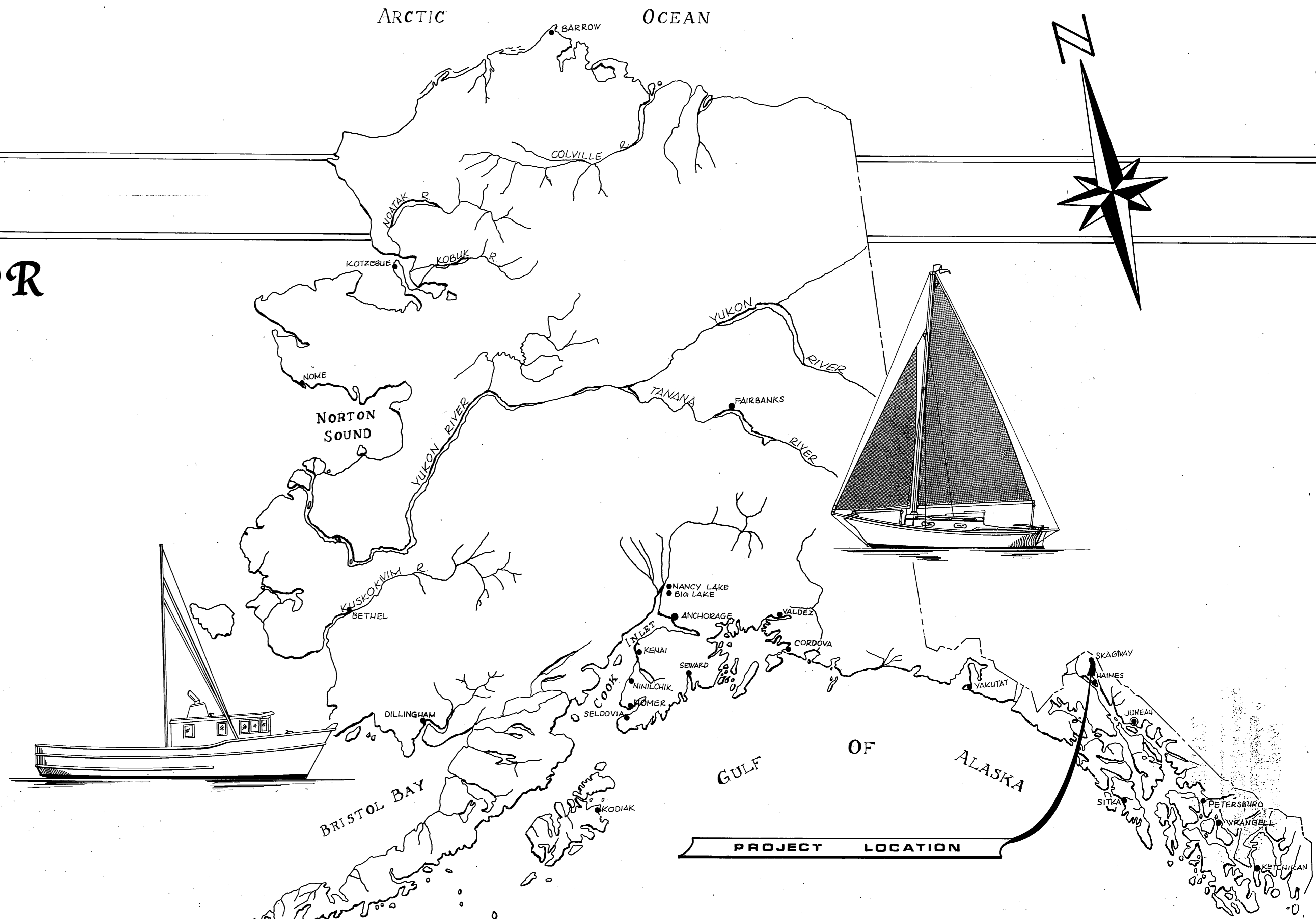


PROJECT NO. K 78147

# SKAGWAY INNER HARBOR FACILITY



SKAGWAY HARBOR  
 Photo taken 5/20/73, see Harbor Layout for additional existing information (sht. 2)



PROJECT LOCATION

### —WORK SUMMARY—

- Major items of work consists of the following:
1. Construct 2461 ft<sup>2</sup> of 12' wide post-tensioned concrete float.
  2. Construct 3,281 ft<sup>2</sup> of 12' wide heavy duty non post-tensioned concrete float.
  3. Construct 13,282 ft<sup>2</sup> of standard concrete float.
  4. Construct 4,137 ft<sup>2</sup> of timber float.
  5. Furnish and install 828 LF of 12"Ø steel float pile (12 piles) & 4,068 LF of timber float pile. (63 piles)
  6. Relocate oil pipeline.
  7. Install domestic water supply.
  8. Dredge approx. 10,500 C.Y.
  9. Construct 1,360 ft<sup>2</sup> of 16' wide timber approach.
  10. Construct a double lane launching ramp.
  11. Furnish and install electrical utilities.
  12. Furnish and install a 6'x60' gangway.
  13. Remove and dispose selected existing structures.
  14. Relocate salvaged existing floats.
  15. Construct a 18'x72' Grid & Catwalk.

**AS-BUILT**  
 5-9-81  
 Division of Harbor and Coastal  
 and Construction

### INDEX TO SHEETS

1	TITLE SHEET	15	8' CONC. TO 12' CONC. FLOAT CONNECTION
2	PROJECT LAYOUT	16	TRANSITION PLATE & DOMESTIC WATER
3/4	CONCRETE FLOAT LAYOUT	17	GRID DETAILS
5	8x8 & 6x8 CONCRETE FLOAT UNITS	18	BOAT LAUNCHING RAMP
6	12' WIDE FLOAT UNIT	19	FUEL FLOAT
7	12' POST TENSION FLOAT LAYOUT	20	LAUNCHING RAMP DETAILS
8	12' POST TENSION CONC. FLOAT	21	6' SECTIONAL FLOAT
9	DETAILS - 12' POST TENSIONED FLOAT	22	TYPICAL 16' APPROACH
10	TYPICAL 10' TIMBER FLOAT	23	60' STEEL GANGWAY SHT. - A
11	TYPICAL STALL FLOATS (CONCRETE)	24	60' STEEL GANGWAY SHT. - B
12	TIMBER STALL FLOATS	25	LIGHTING PLAN
13	CONC. STALL FLOAT WELDMENTS	26	POWER PLAN
14	10' TIMBER FLOAT CONNECTION	27/28	MISC. ELECTRICAL DETAILS

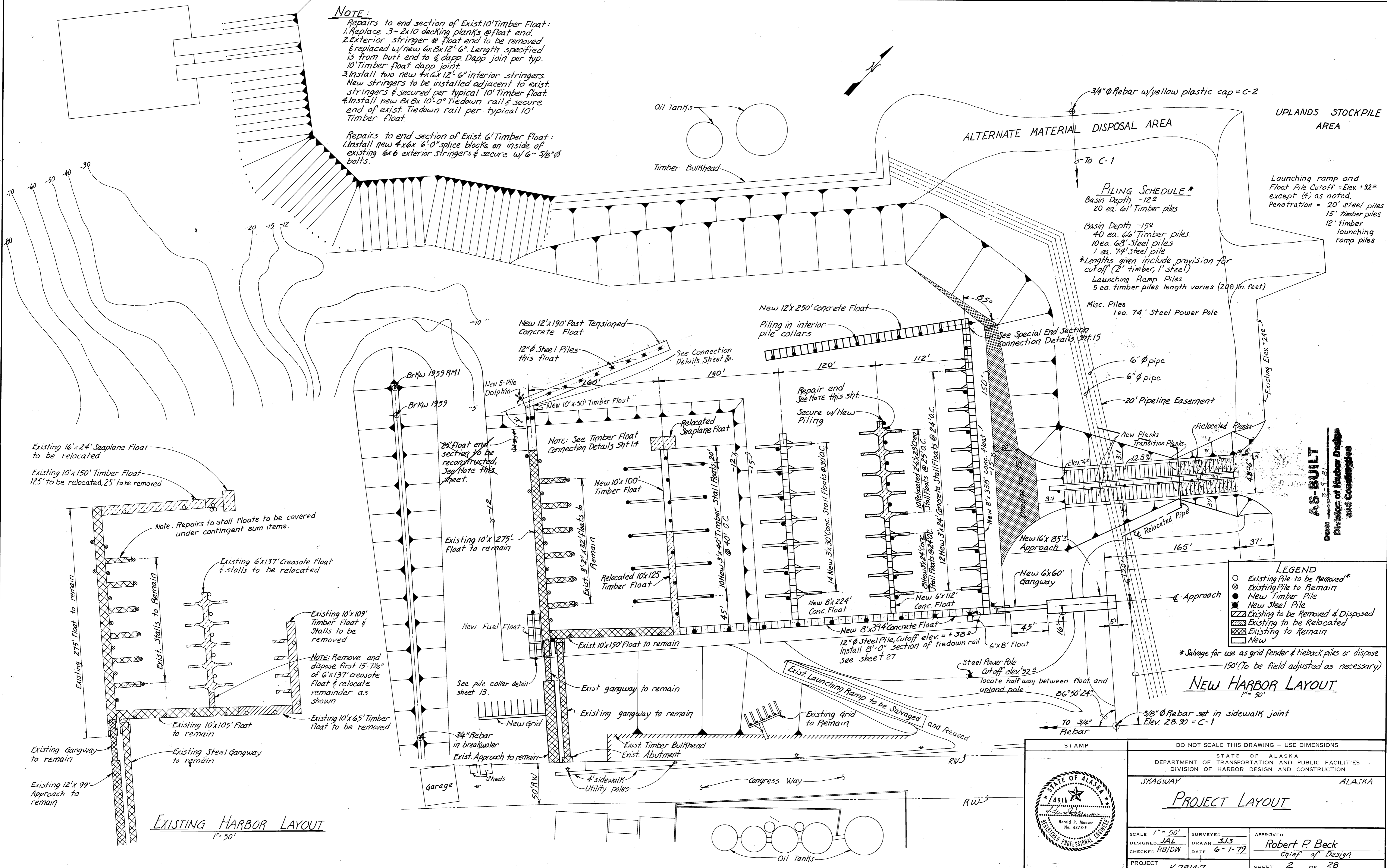
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
**DIVISION OF HARBOR DESIGN & CONSTRUCTION**

**APPROVED**  
*Wen Statter*  
 DATE 1/28/80  
 SHEET 1 OF 28

**NOTE:**  
 Repairs to end section of Exist. 10' Timber Float:  
 1. Replace 3-2x10 decking planks @ float end.  
 2. Exterior stringer @ float end to be removed & replaced w/ new 6x8x12'-6". Length specified is from butt end to clapp. Dapp joint per typ. 10' Timber float dapp joint.  
 3. Install two new 4x6x12'-6" interior stringers. New stringers to be installed adjacent to exist. stringers & secured per typical 10' Timber float.  
 4. Install new 8x8x10'-0" tiedown rail & secure end of exist. Tiedown rail per typical 10' Timber float.

Repairs to end section of Exist. 6' Timber float:  
 1. Install new 4x6x6'-0" splice blocks on inside of existing 6x6 exterior stringers & secure w/ 6-5/8"Ø bolts.



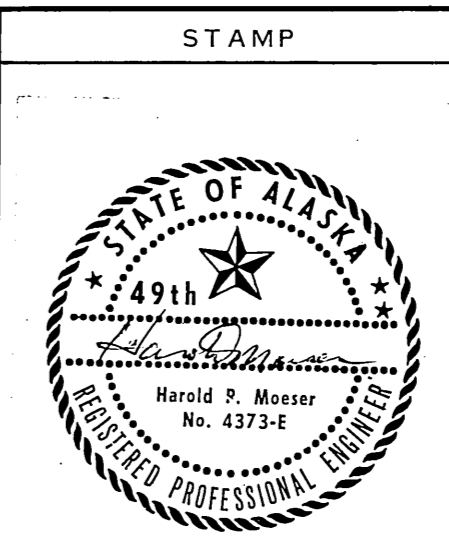
**PILING SCHEDULE\***

Basin Depth -12'	20 ea. 61' Timber piles
Basin Depth -15'	40 ea. 66' Timber piles, 10 ea. 68' Steel piles, 1 ea. 74' Steel pile
*Lengths given include provision for cutoff (2' timber, 1' steel)	
Launching Ramp Piles	5 ea. timber piles length varies (208 lin. feet)
Misc. Piles	1 ea. 74' Steel Power Pole

**LEGEND**

- Existing Pile to be Removed\*
- ⊗ Existing Pile to Remain
- New Timber Pile
- New Steel Pile
- ▨ Existing to be Removed & Disposed
- ▨ Existing to be Relocated
- ▨ Existing to remain
- New

\*Salvage for use as grid fender & tieback piles or dispose 150' (to be field adjusted as necessary)



STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

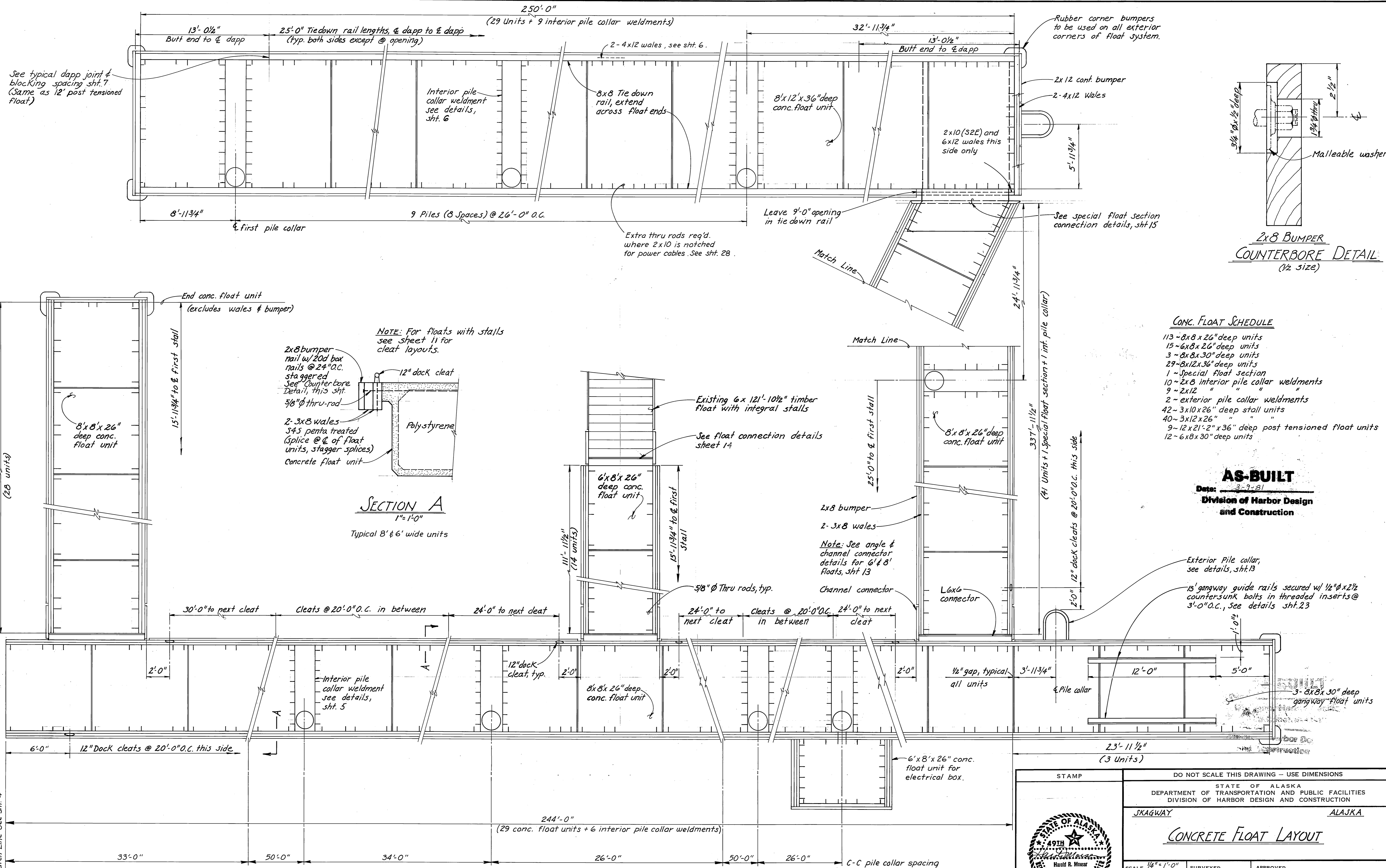
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
 DIVISION OF HARBOR DESIGN AND CONSTRUCTION

SKAGWAY ALASKA

**PROJECT LAYOUT**

SCALE 1" = 50'	SURVEYED	APPROVED
DESIGNED JAL	DRAWN SJS	Robert P. Beck
CHECKED RB/DW	DATE 6-1-79	Chief of Design
PROJECT NUMBER K78147		SHEET 2 OF 28

**AS-BUILT**  
 3-9-81  
 Division of Harbor Design and Construction

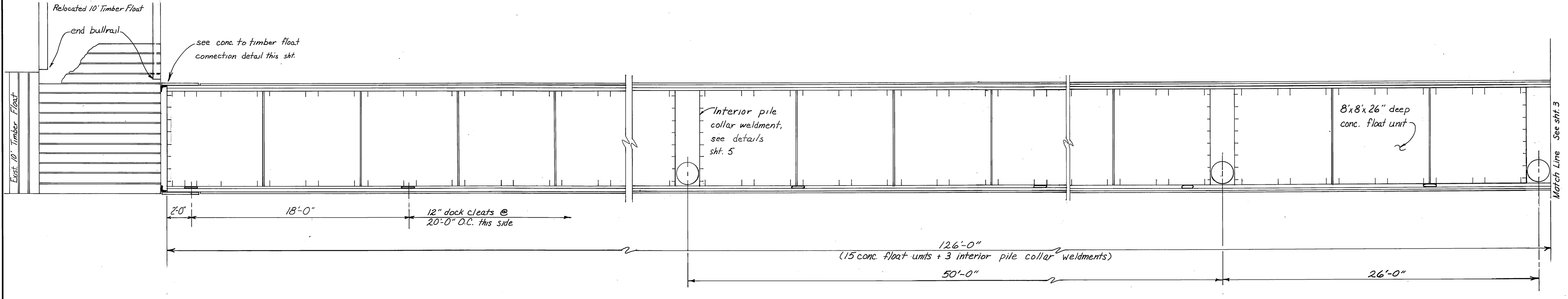


**CONC. FLOAT SCHEDULE**

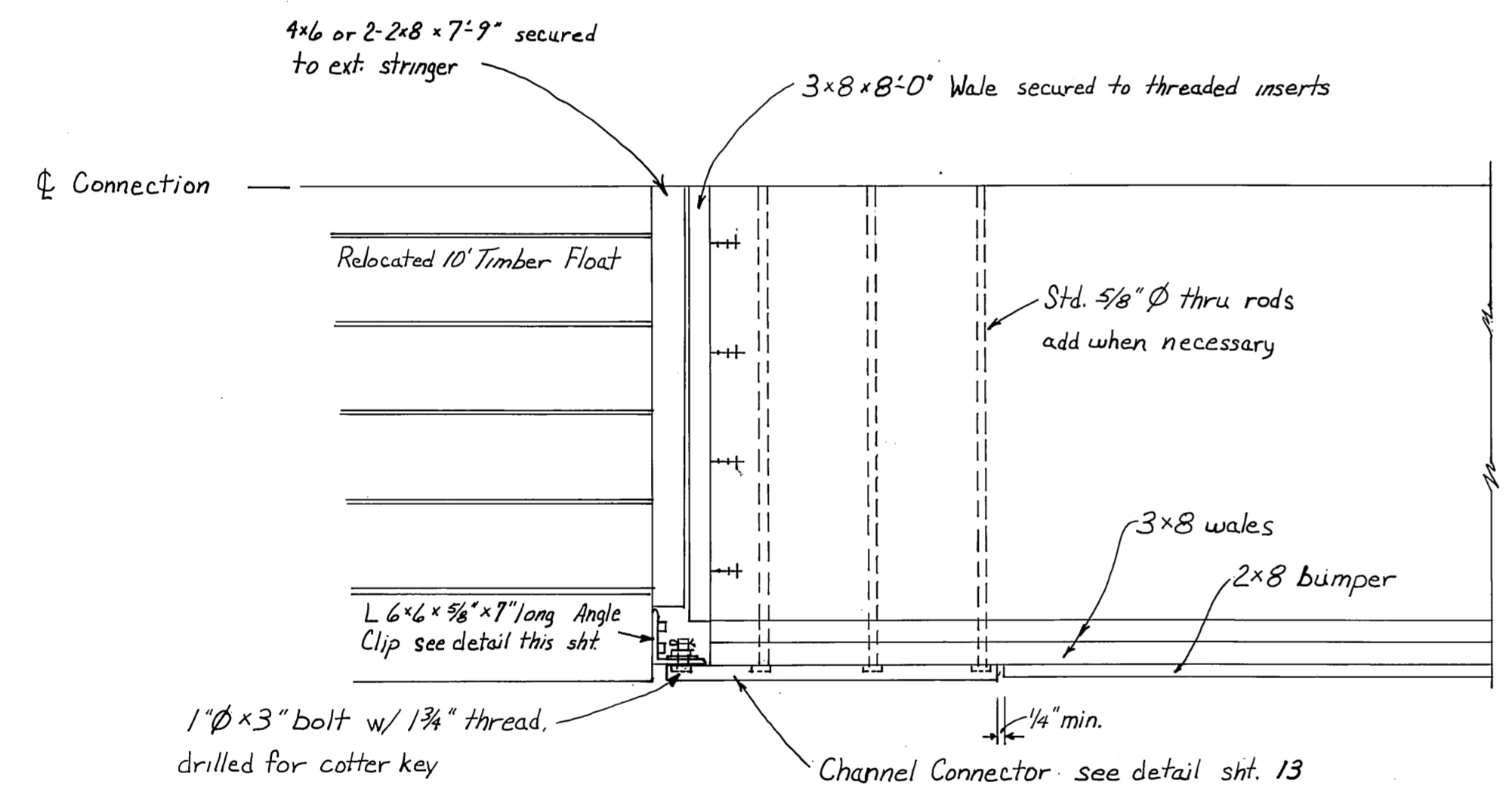
- 113 - 8x8 x 26" deep units
- 15 - 6x8 x 26" deep units
- 3 - 8x8 x 30" deep units
- 29 - 8x12 x 36" deep units
- 1 - Special float section
- 10 - 2x8 interior pile collar weldments
- 9 - 2x12 " " "
- 2 - exterior pile collar weldments
- 42 - 3x10 x 26" deep stall units
- 40 - 3x12 x 26" " " "
- 9 - 12 x 21'-2" x 36" deep post tensioned float units
- 12 - 6x8 x 30" deep units

**AS-BUILT**  
 Date: 3-7-81  
 Division of Harbor Design and Construction

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION SKAGWAY ALASKA	
<b>CONCRETE FLOAT LAYOUT</b>		
SCALE 1/4" = 1'-0" DESIGNED JAL CHECKED:	SURVEYED: DRAWN SJS DATE 6-1-79	APPROVED Robert F. Zick Chief of Design
PROJECT NUMBER K 78147		SHEET 3 OF 28

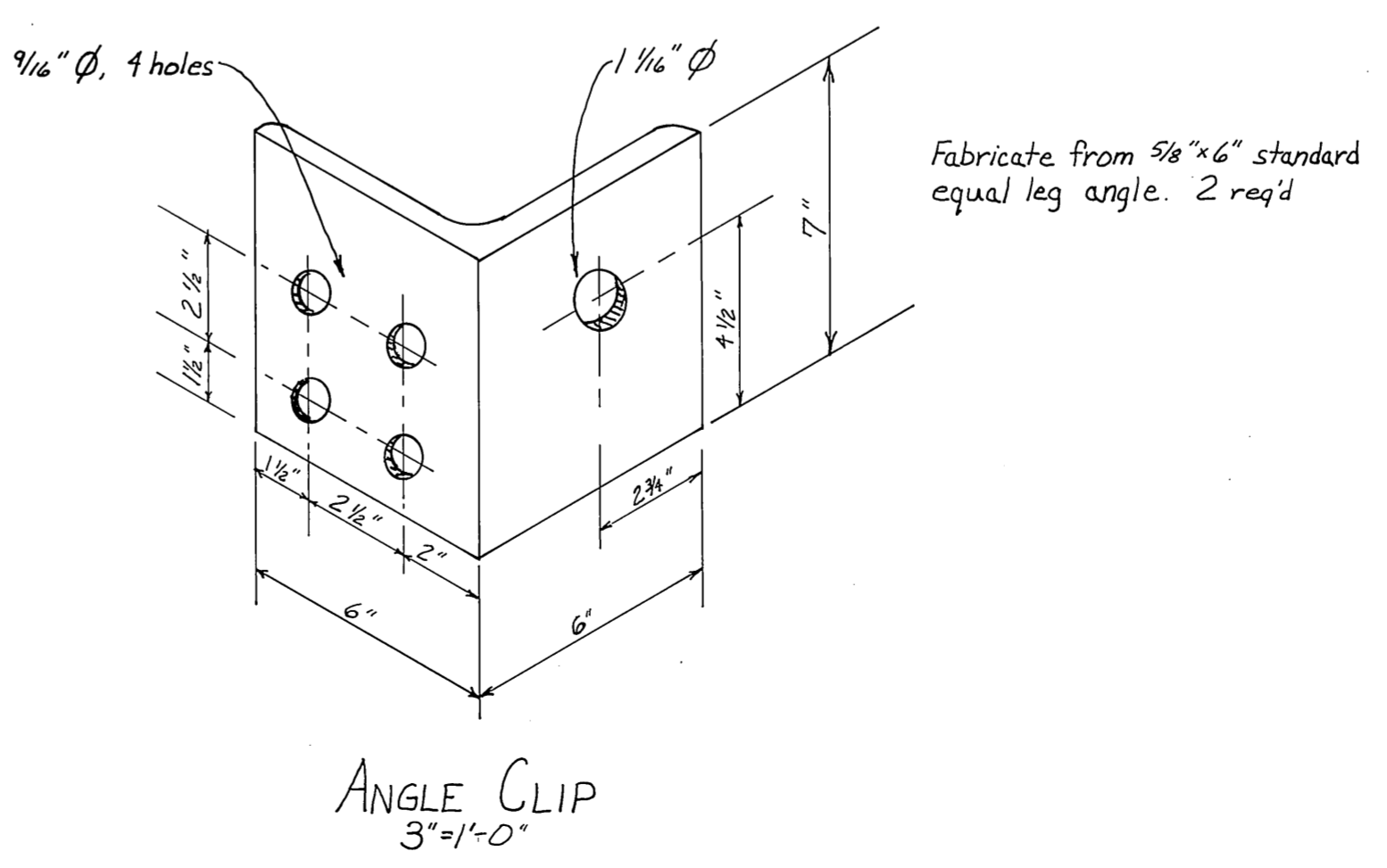
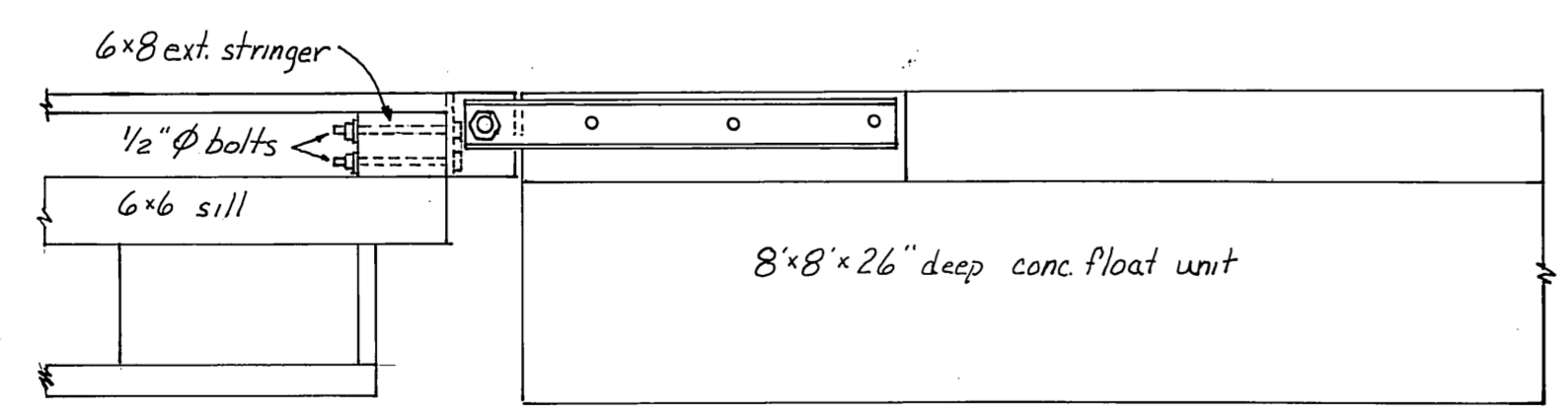


CONCRETE FLOAT LAYOUT  
1/4" = 1'-0"

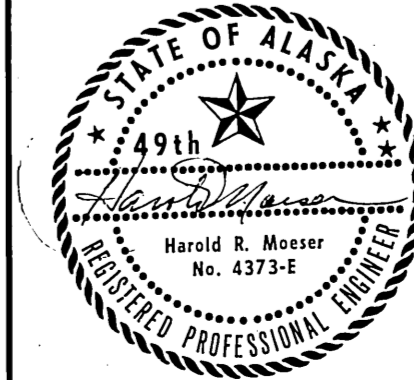


CONCRETE TO TIMBER FLOAT CONNECTION DETAIL  
3/4" = 1'-0"

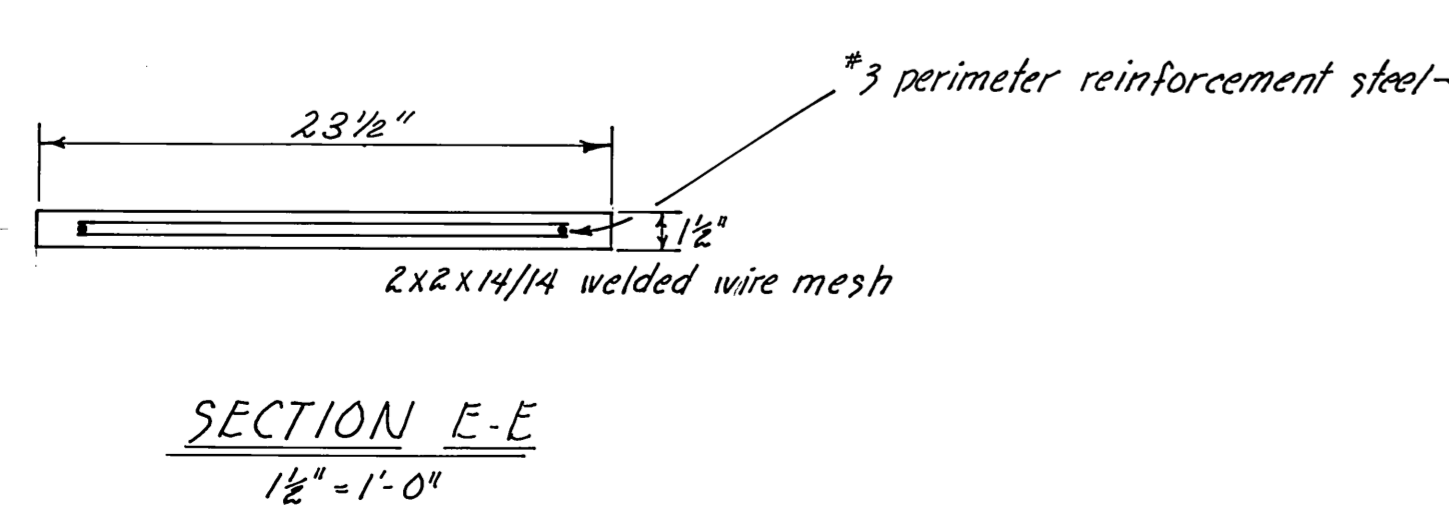
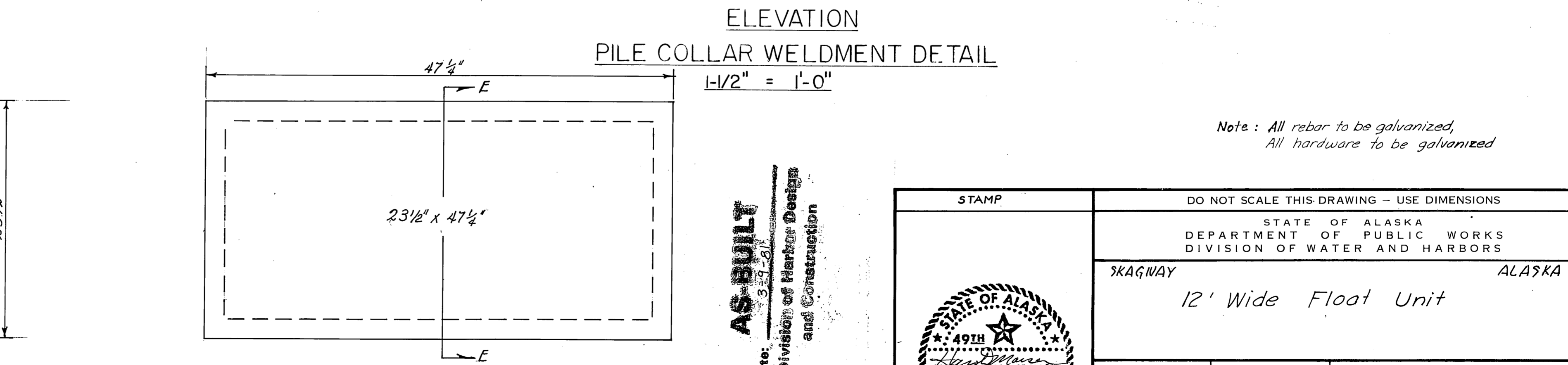
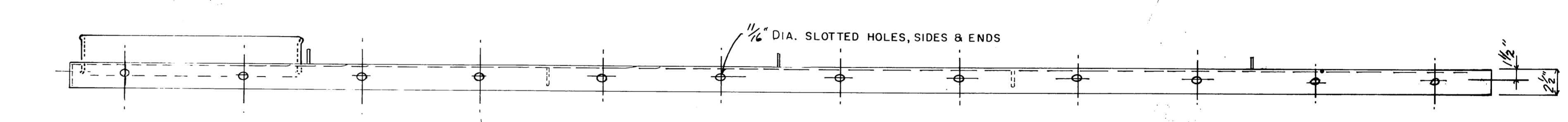
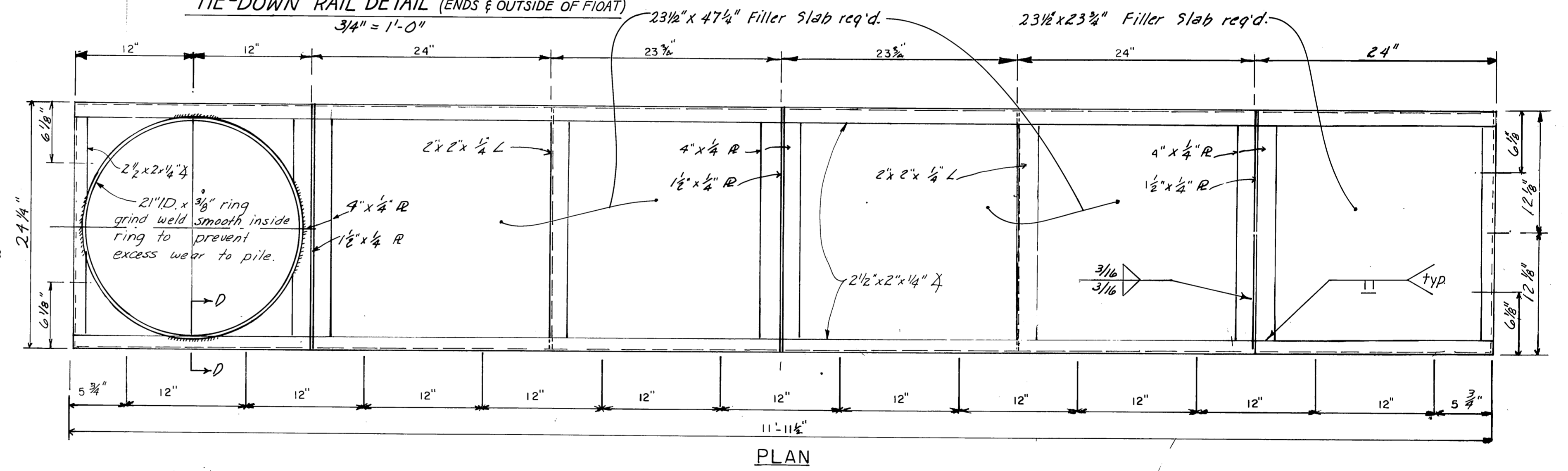
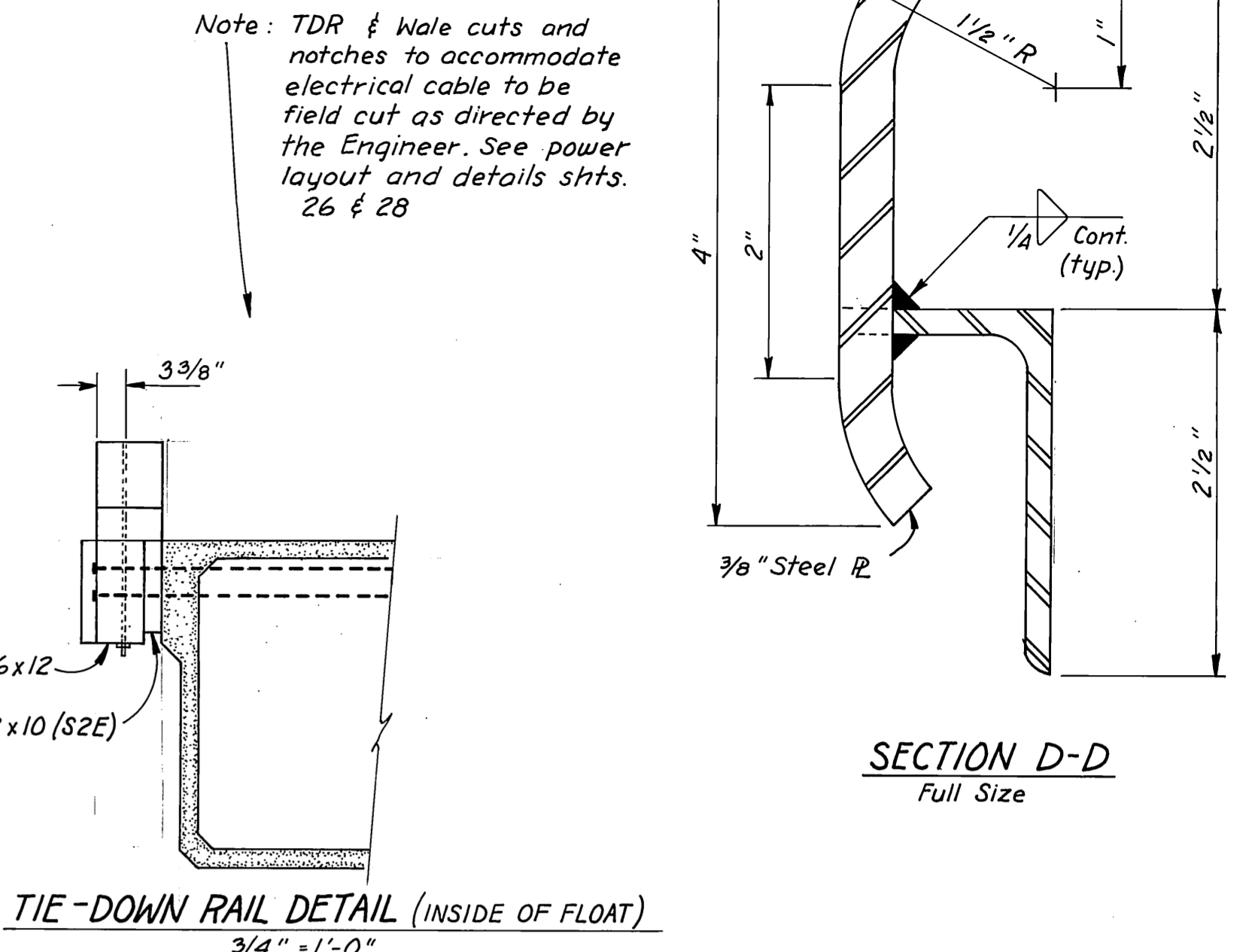
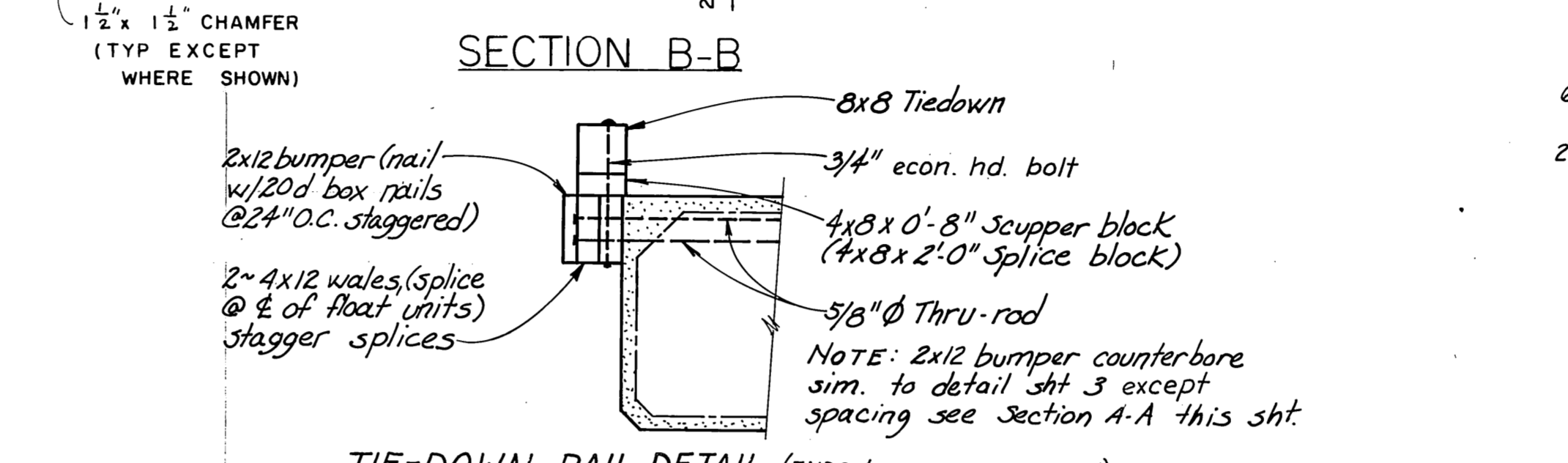
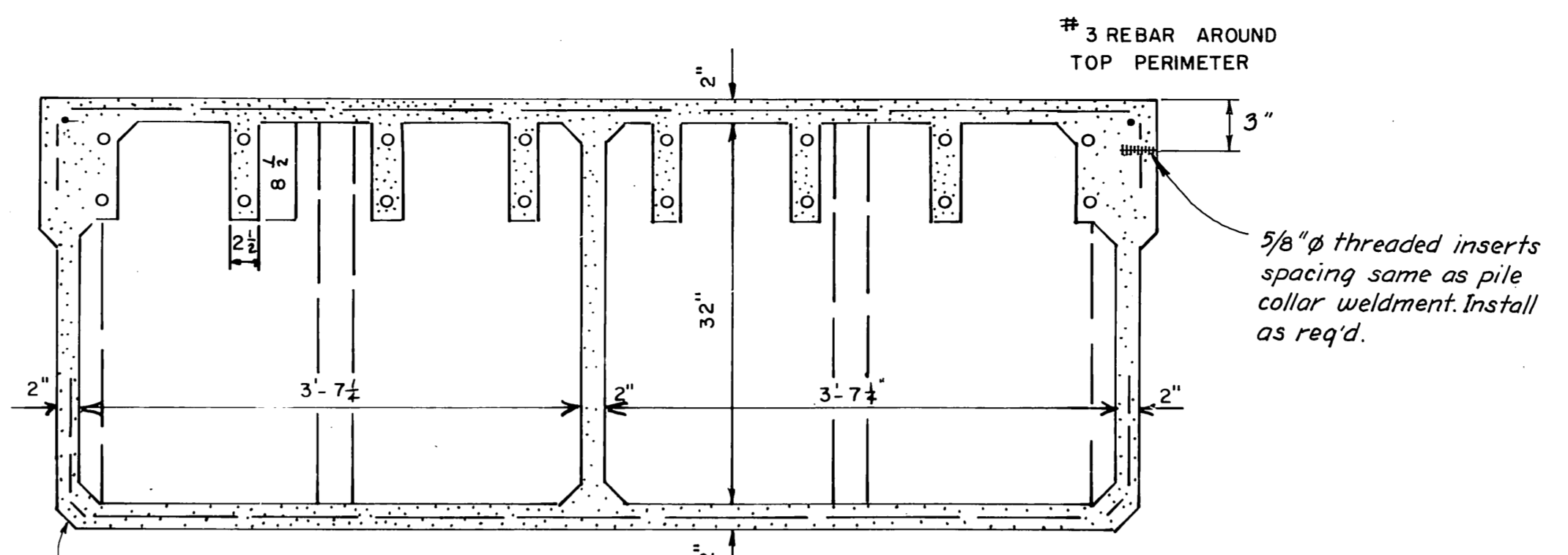
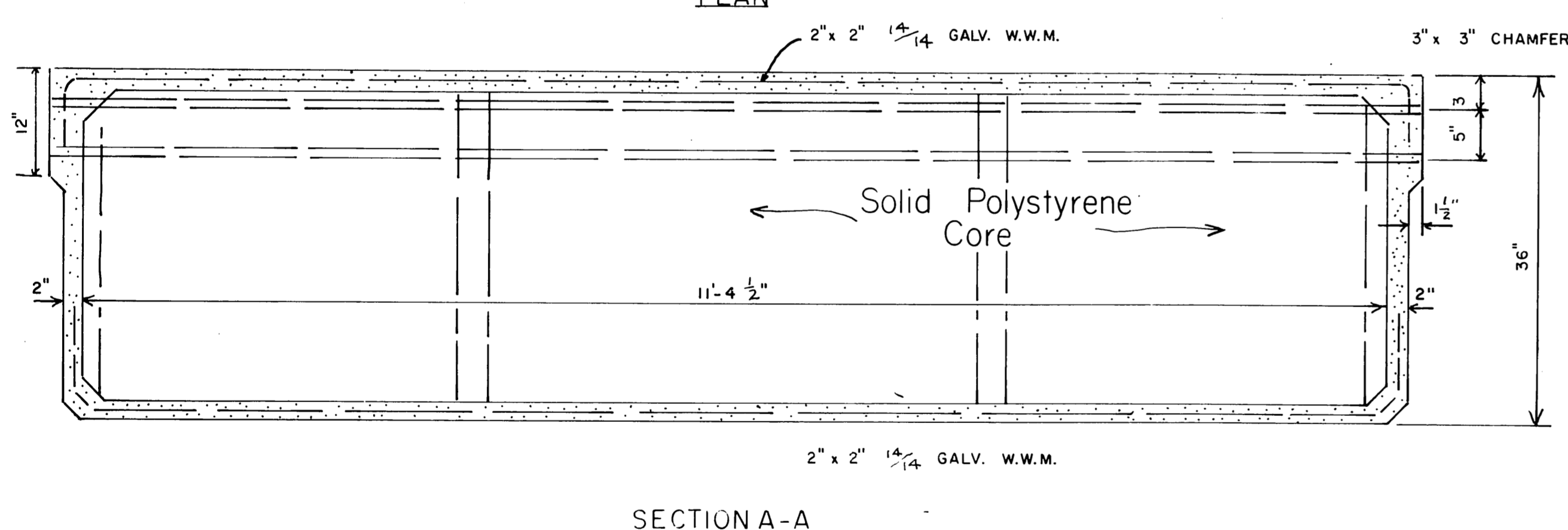
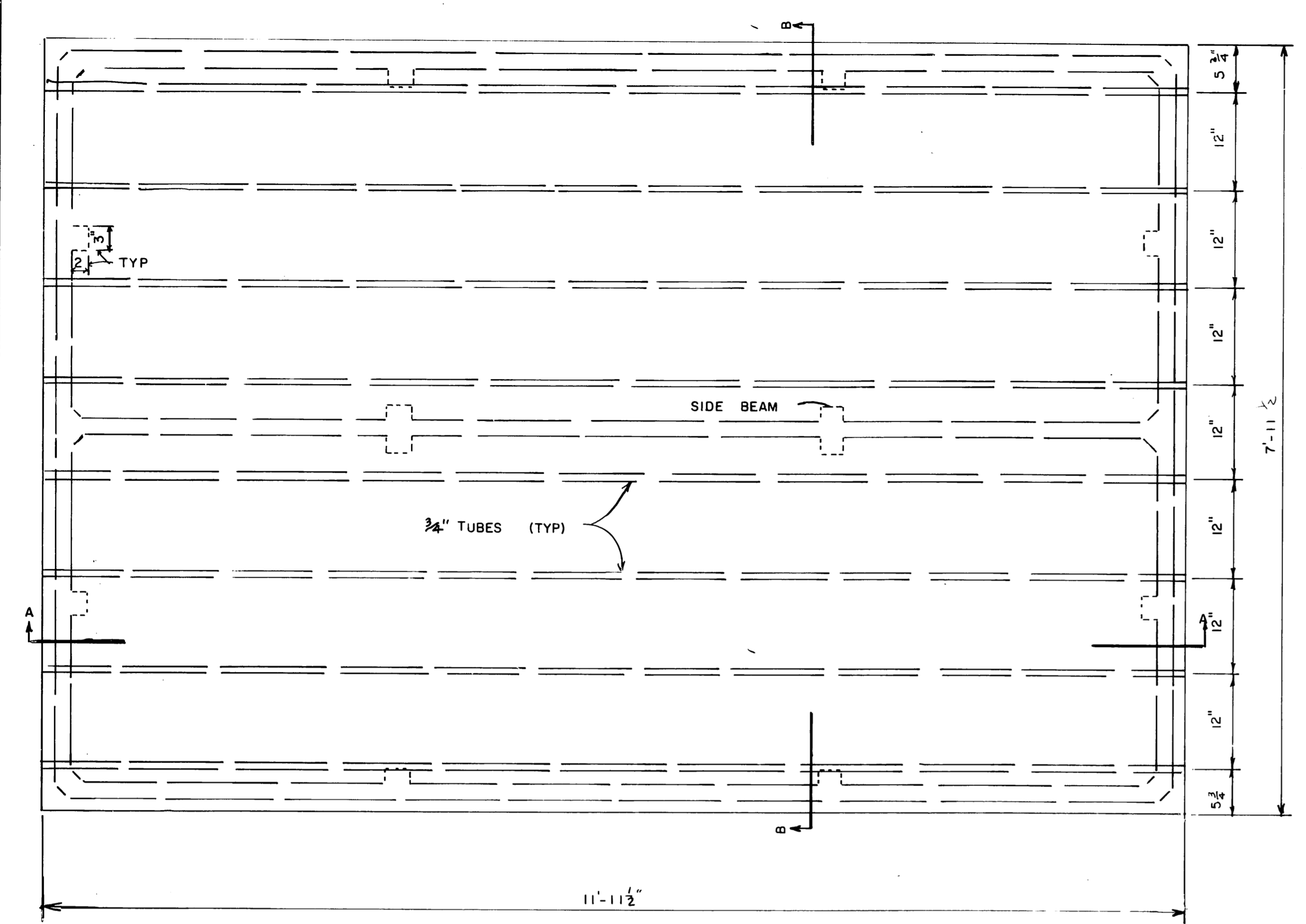
Note:  
Install additional flotation as req'd. Flotation to be salvaged from floats to be disposed.



**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN, AND CONSTRUCTION			
SKAGWAY		ALASKA	
CONCRETE FLOAT LAYOUT 8' CONCRETE TO 10' TIMBER CONNECTION			
SCALE <i>as noted</i>	SURVEYED	APPROVED	
DESIGNED <i>JDB</i>	DRAWN <i>JDB</i>	 <i>Robert P. Beck</i> Chief of Design	
CHECKED <i>RB/DW</i>	DATE <i>Oct. 1979</i>		
PROJECT NUMBER <i>K78147</i>	SHEET <i>4</i> OF <i>28</i>		

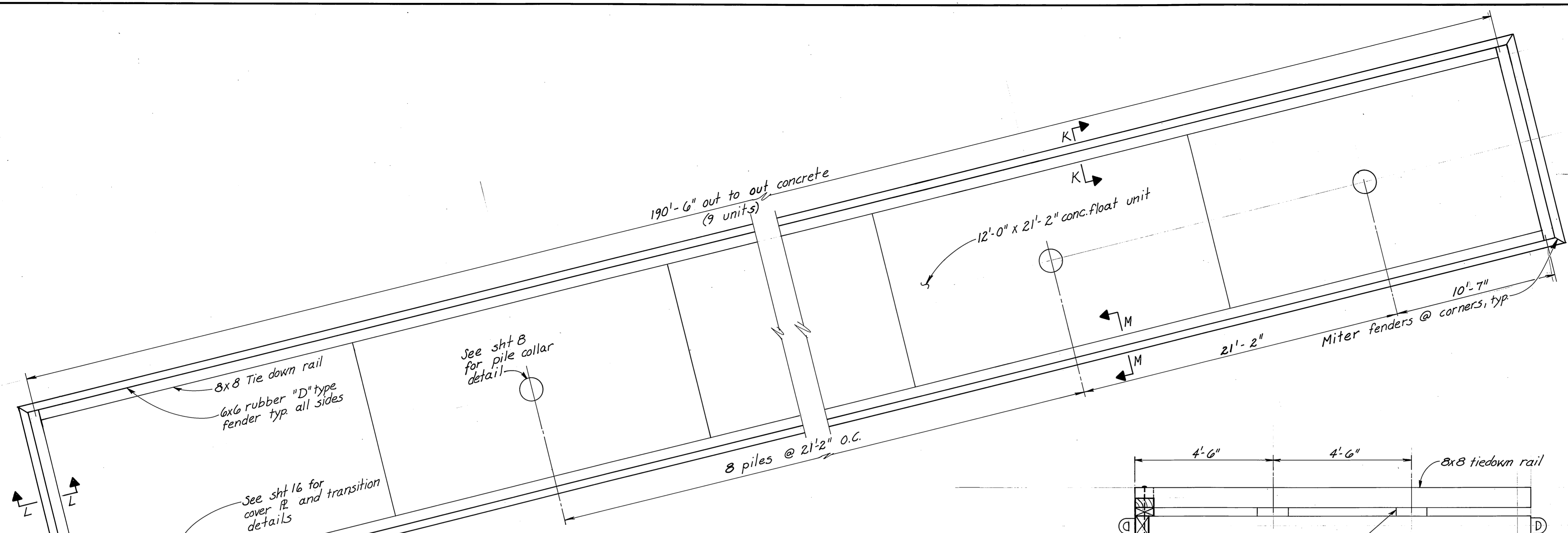




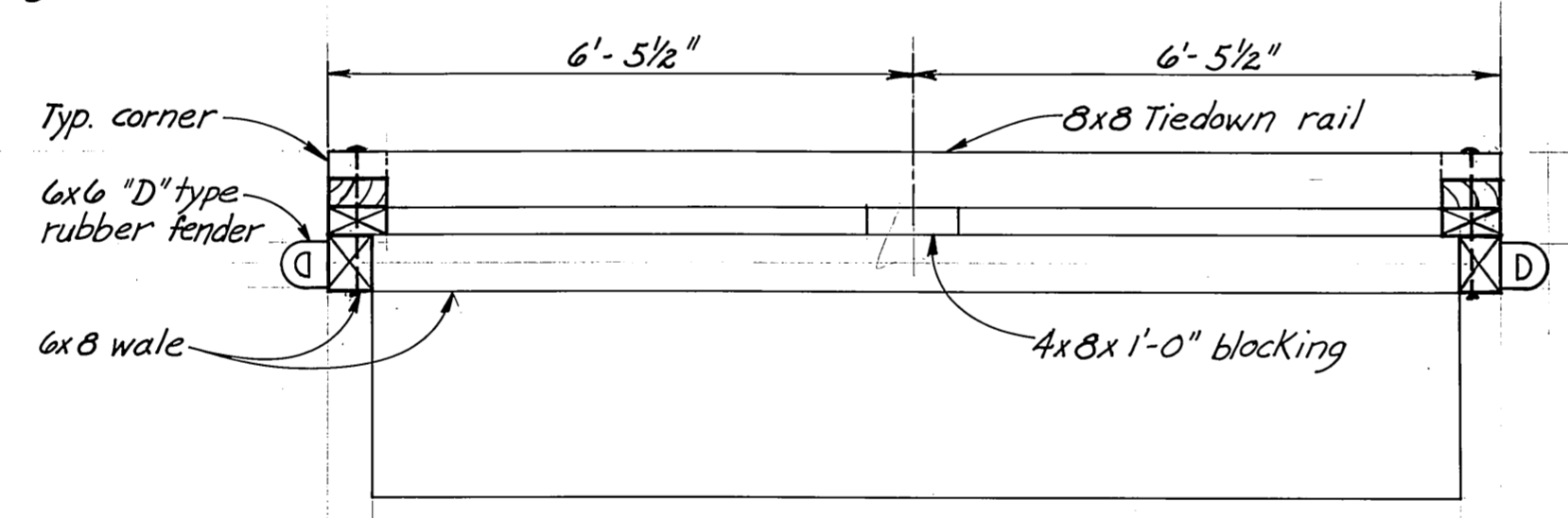
**AS-BUILT**  
 Date: 3-1-79  
 Division of Harbor Design and Construction

STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
SKAGWAY		ALASKA
12' Wide Float Unit		
SCALE As noted	SURVEYED W. O.	APPROVED
DESIGNED	DRAWN	<i>Harold R. Mooser</i> Chief of Design
CHECKED	DATE 6-1-79	
PROJECT NUMBER K 78147	SHEET 6 OF 28	

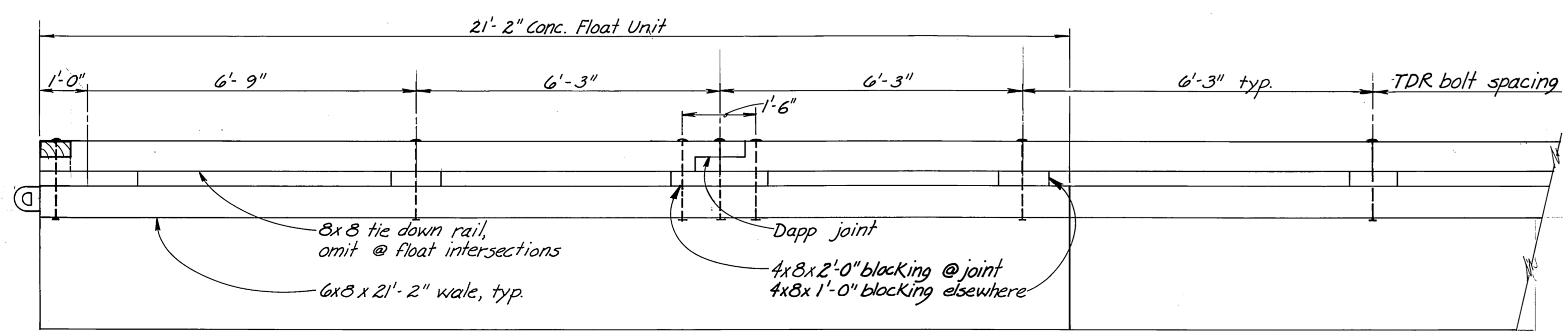
Note: All rebar to be galvanized,  
 All hardware to be galvanized



12' x 190' Post Tensioned Float Layout  
 1/4" = 1'-0"



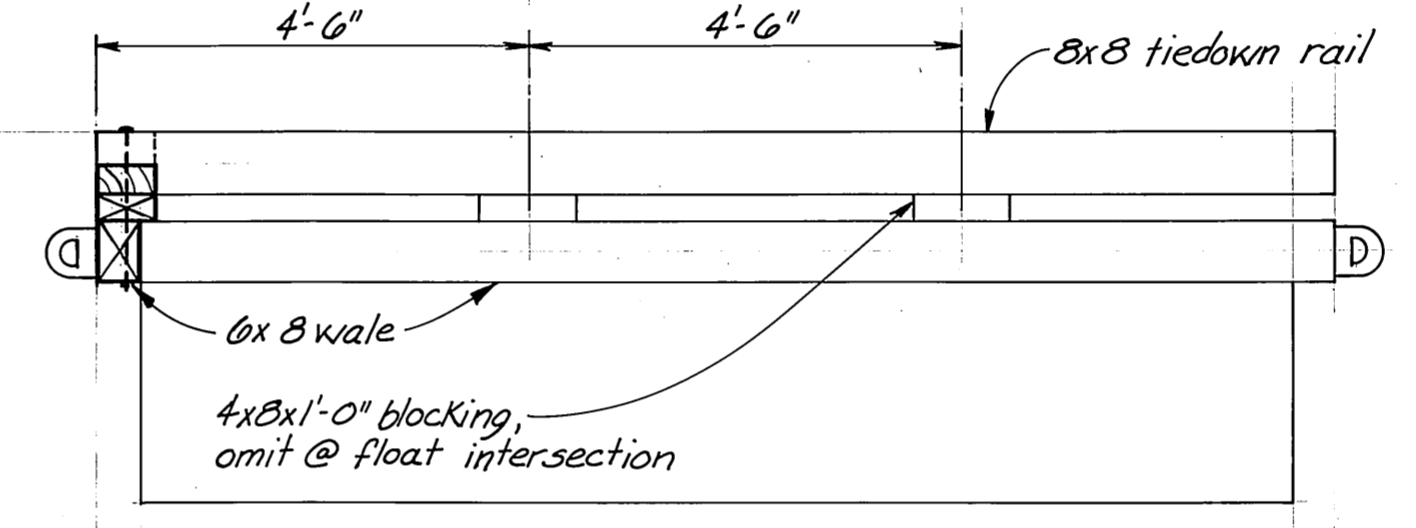
RIGHT END VIEW  
 1/2" = 1'-0"



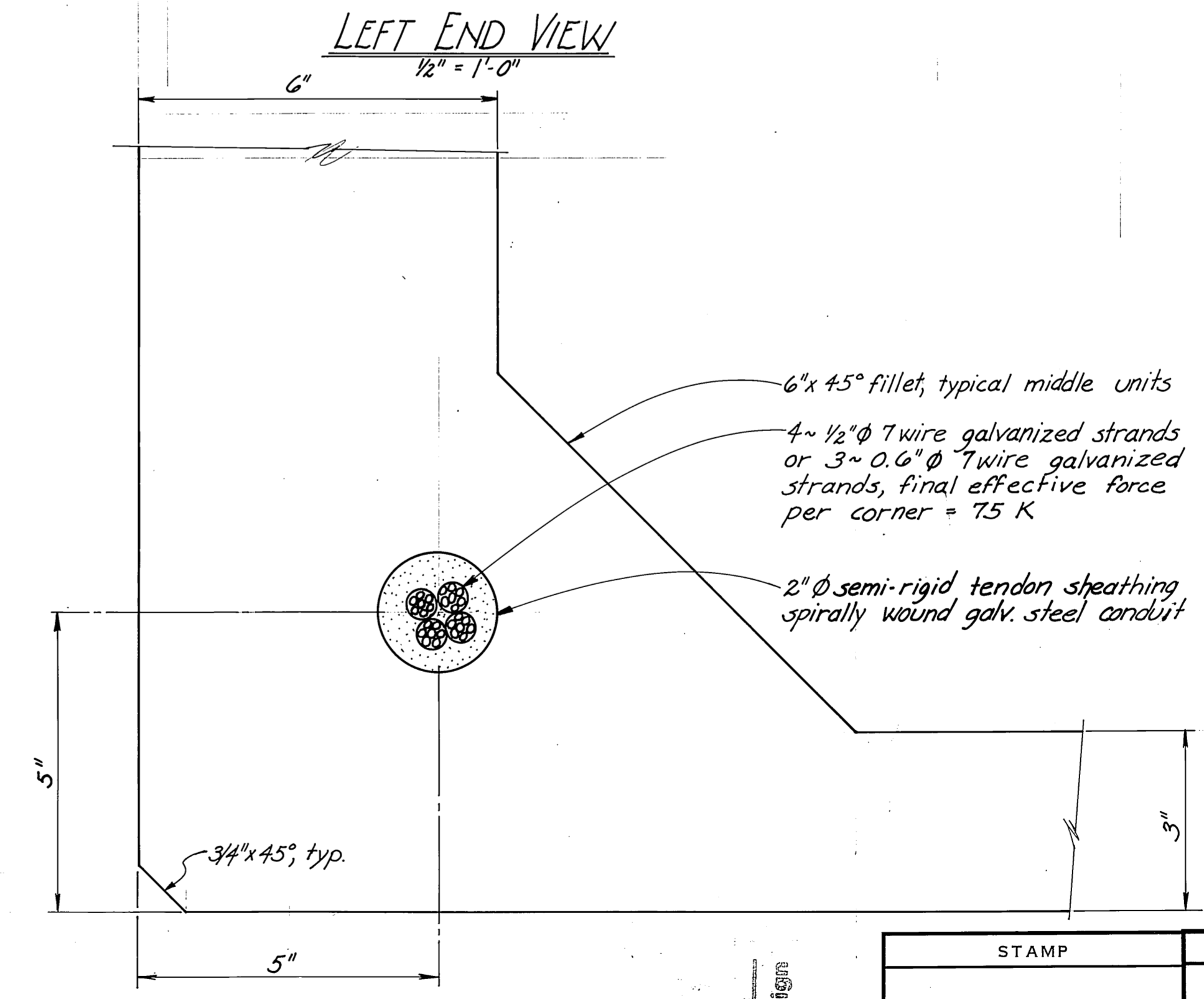
NOTE:  
 Install wales for end unit after blockouts have been grouted.  
 Butt join end & side wales.

TIE DOWN RAIL AND WALE LAYOUT  
 1/2" = 1'-0"

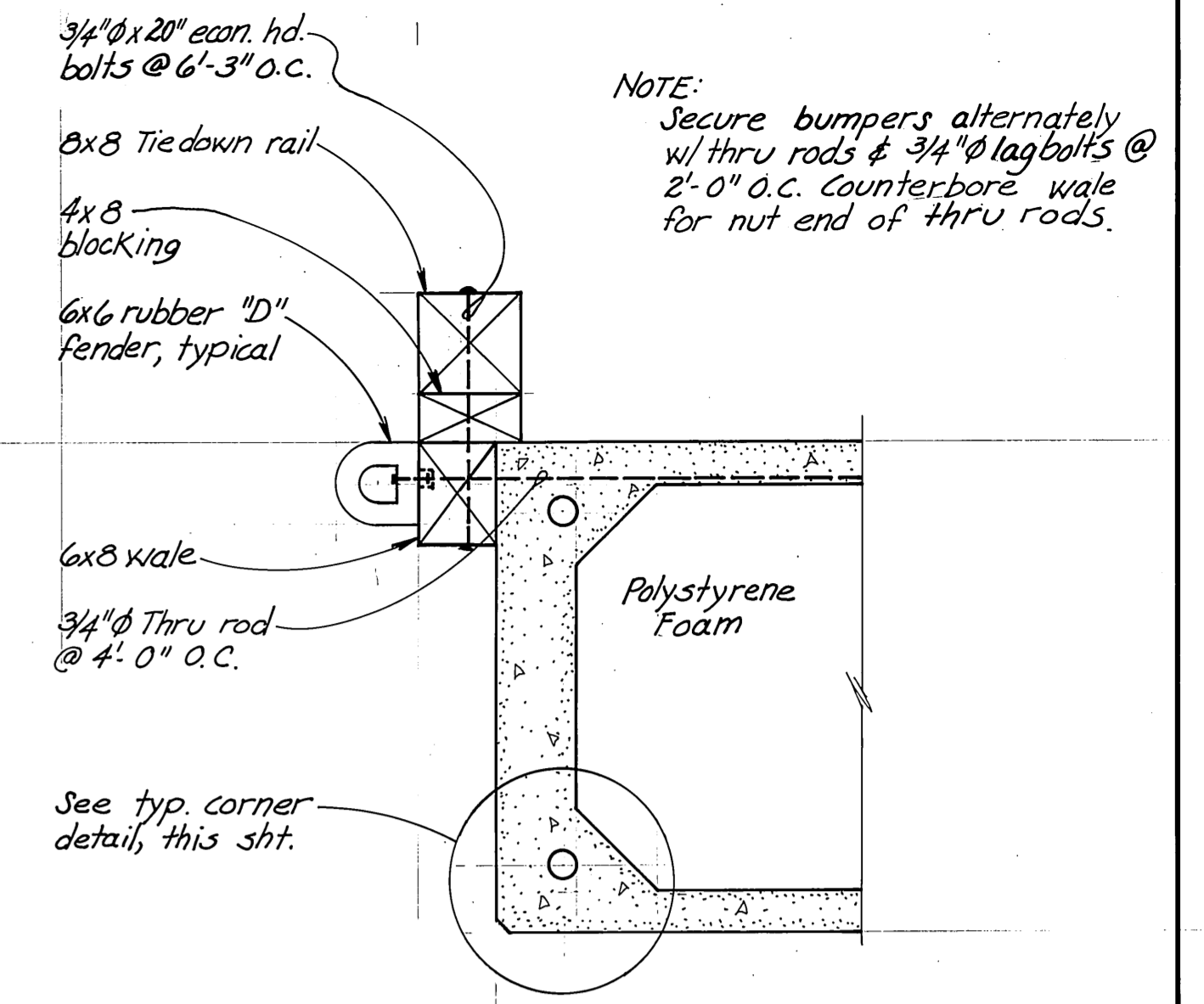
Note: TDR & wale cuts and notches to accommodate electrical cable to be field cut as directed by the Engineer. See power layout and details, shts. 26 & 28.



LEFT END VIEW  
 1/2" = 1'-0"

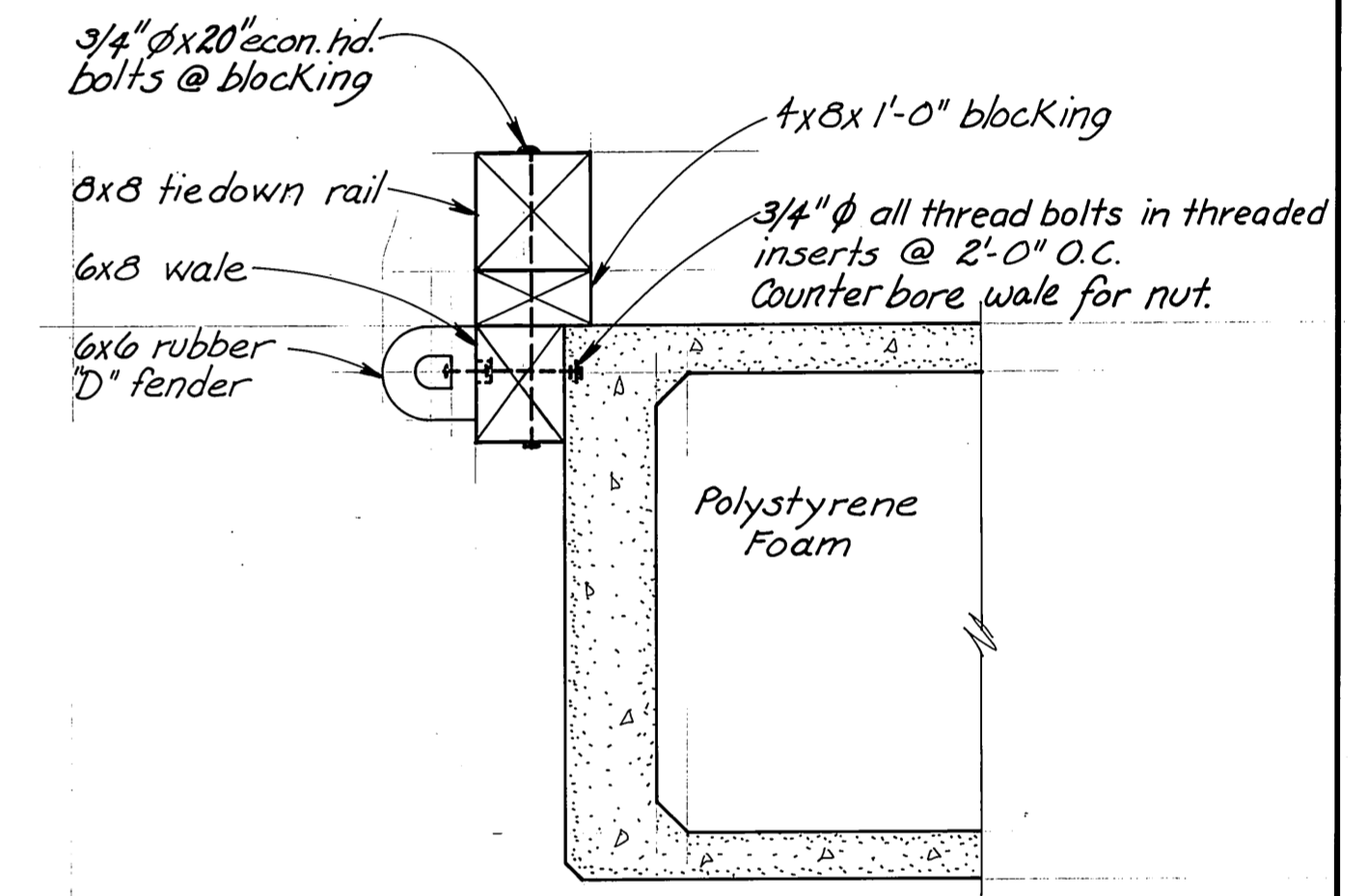


TYPICAL CORNER DETAIL  
 half size

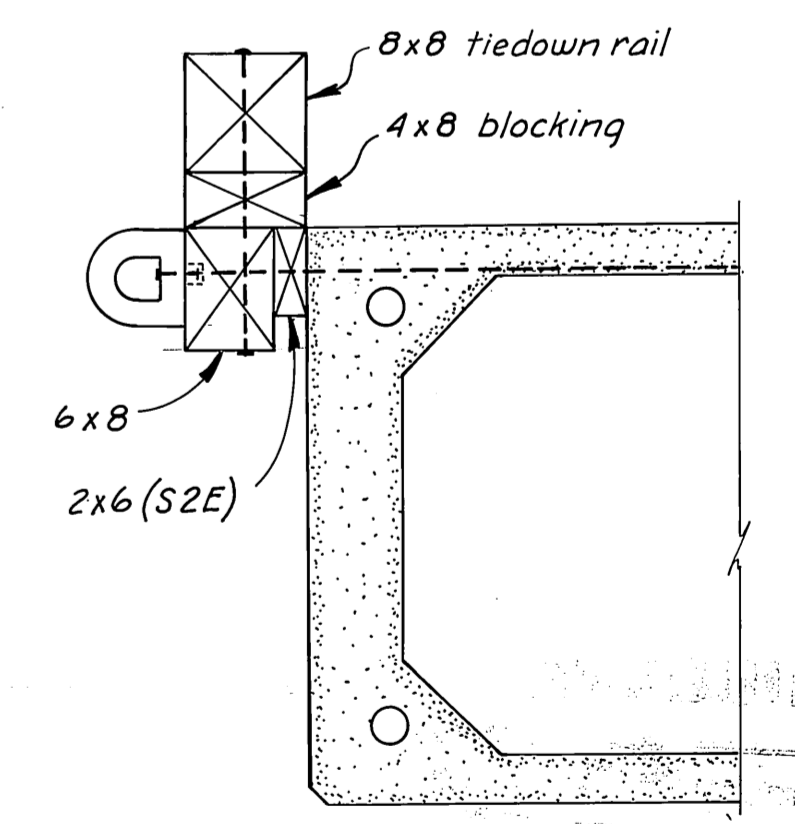


NOTE:  
 Secure bumpers alternately w/ thru rods & 3/4" Ø lag bolts @ 2'-0" O.C. Counter bore wale for nut end of thru rods.

SECTION K~K  
 1" = 1'-0"

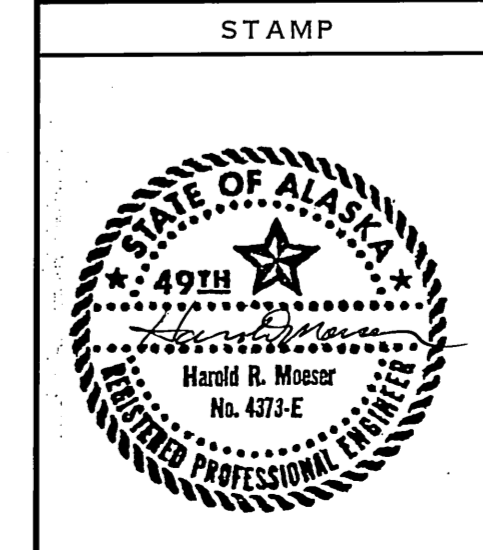


SECTION L~L  
 1" = 1'-0"

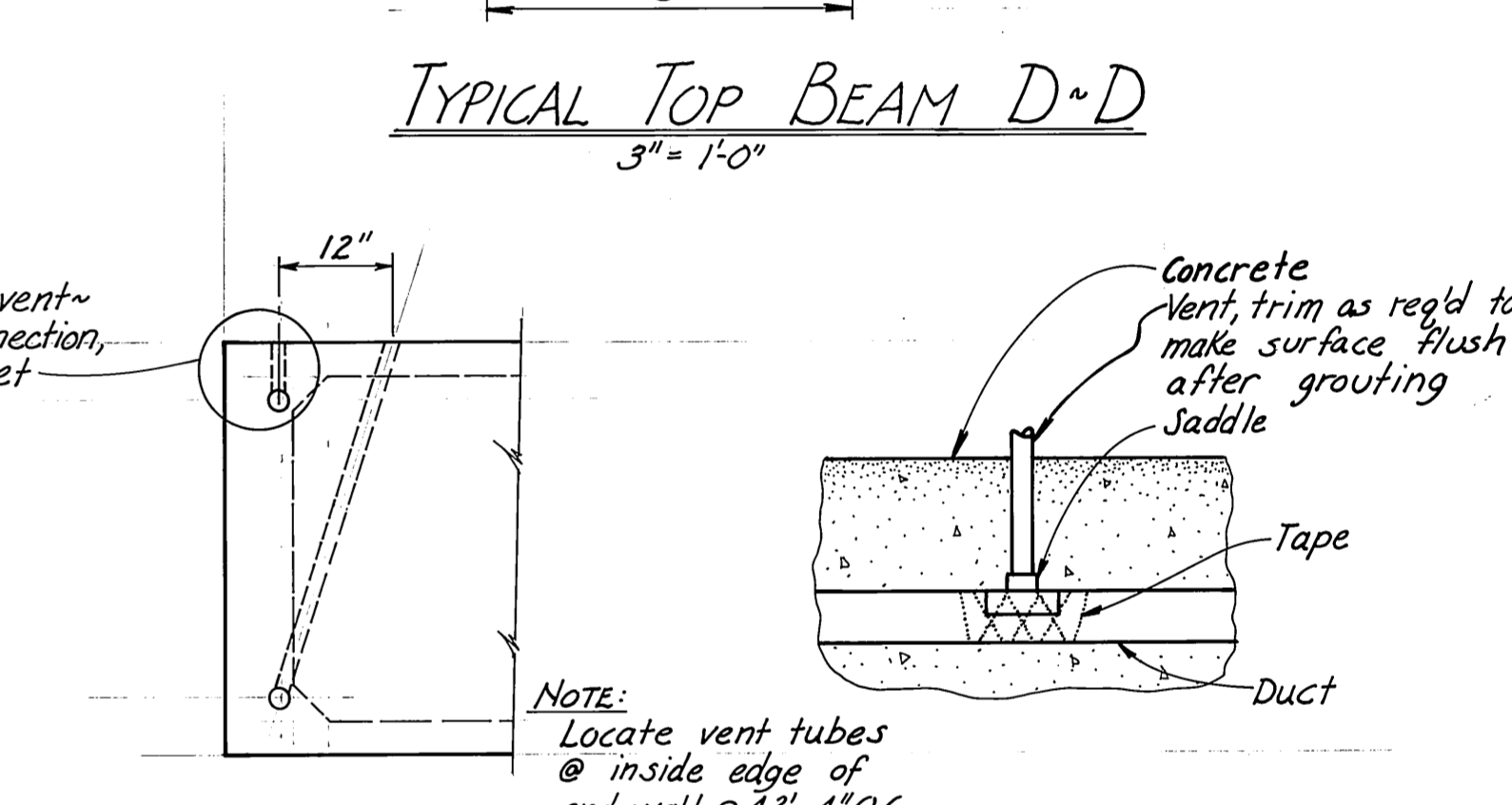
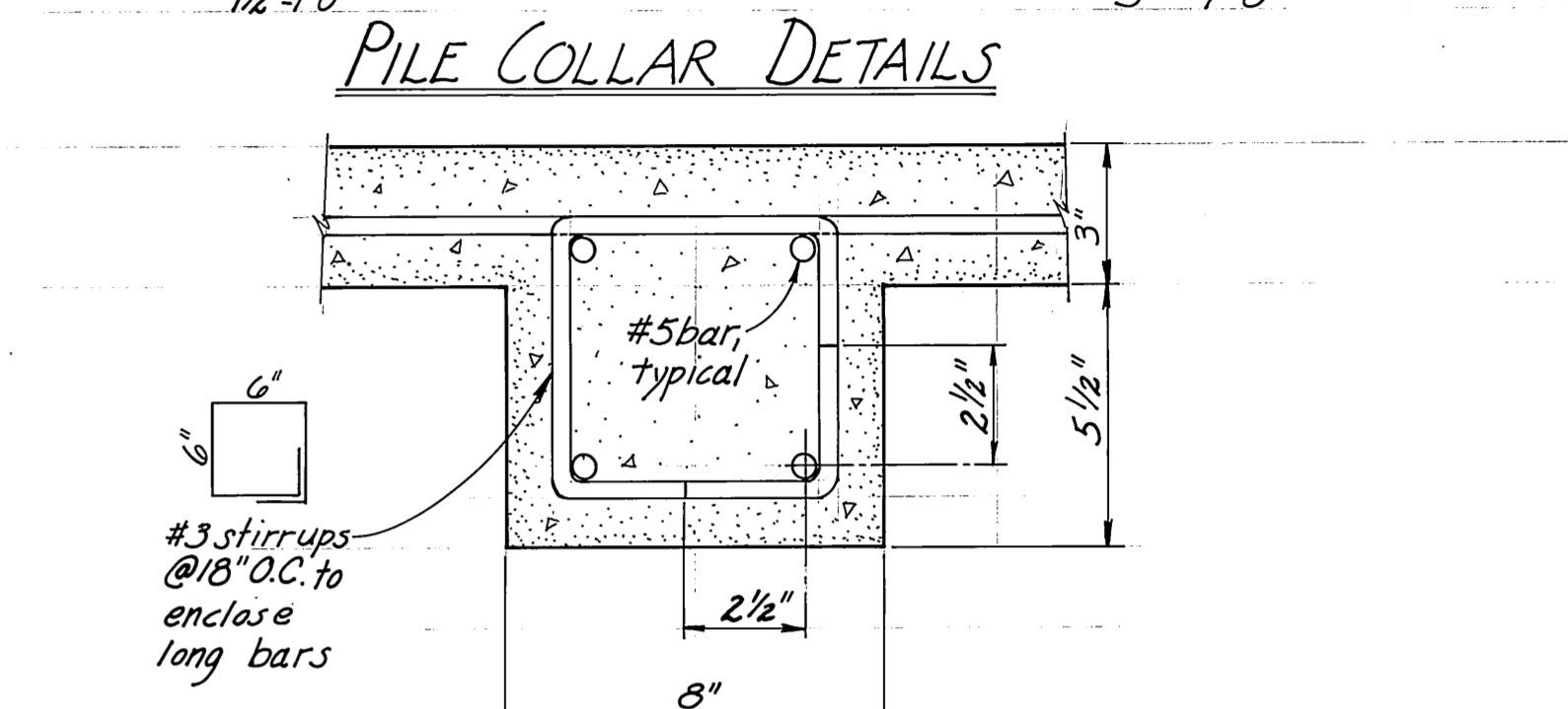
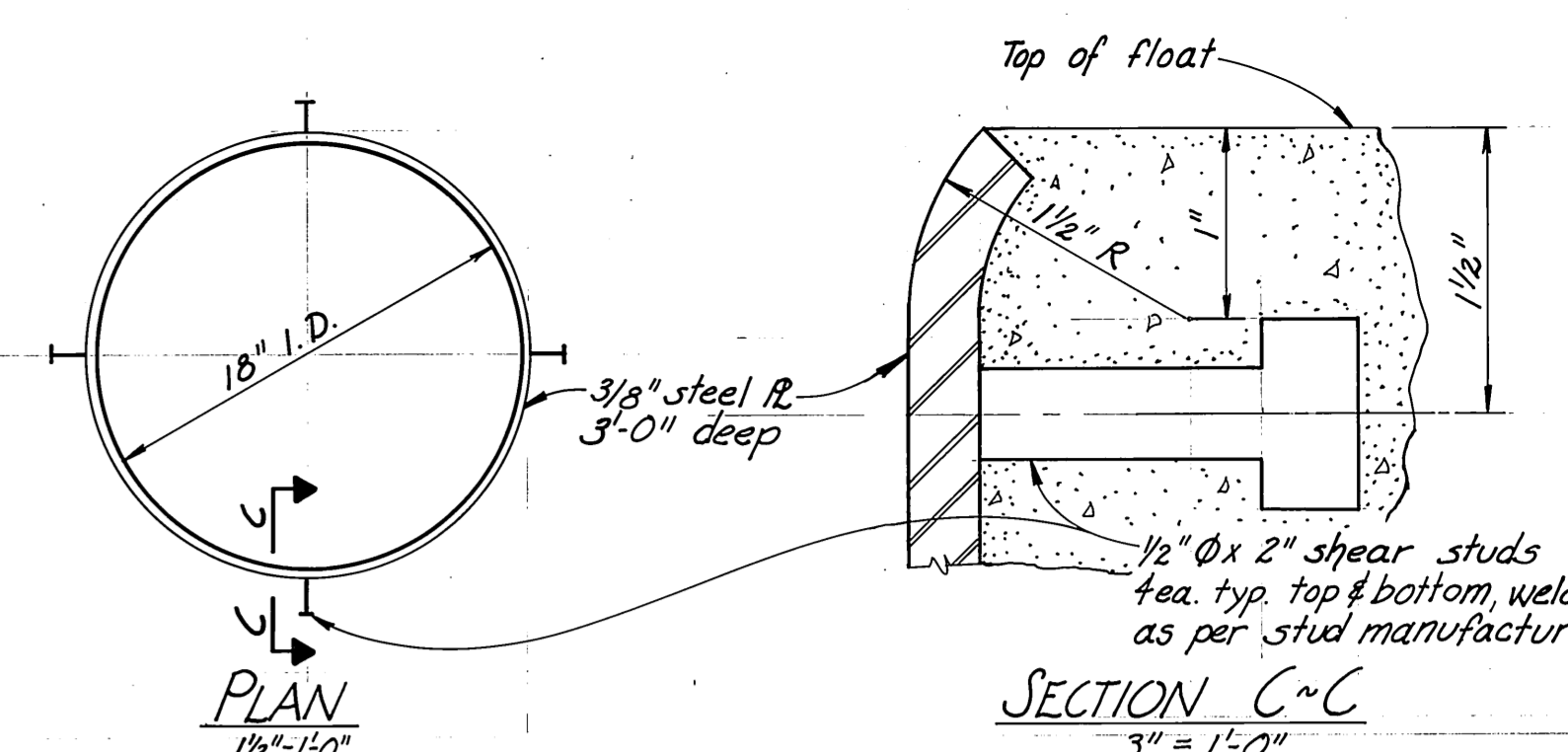
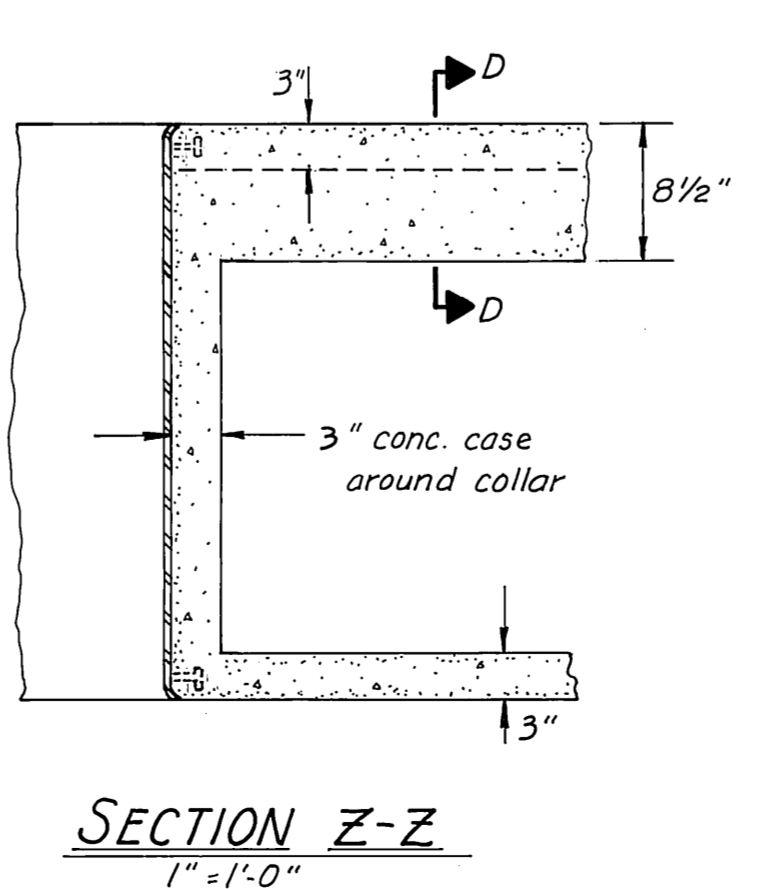
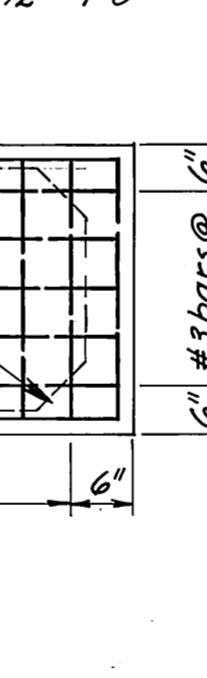
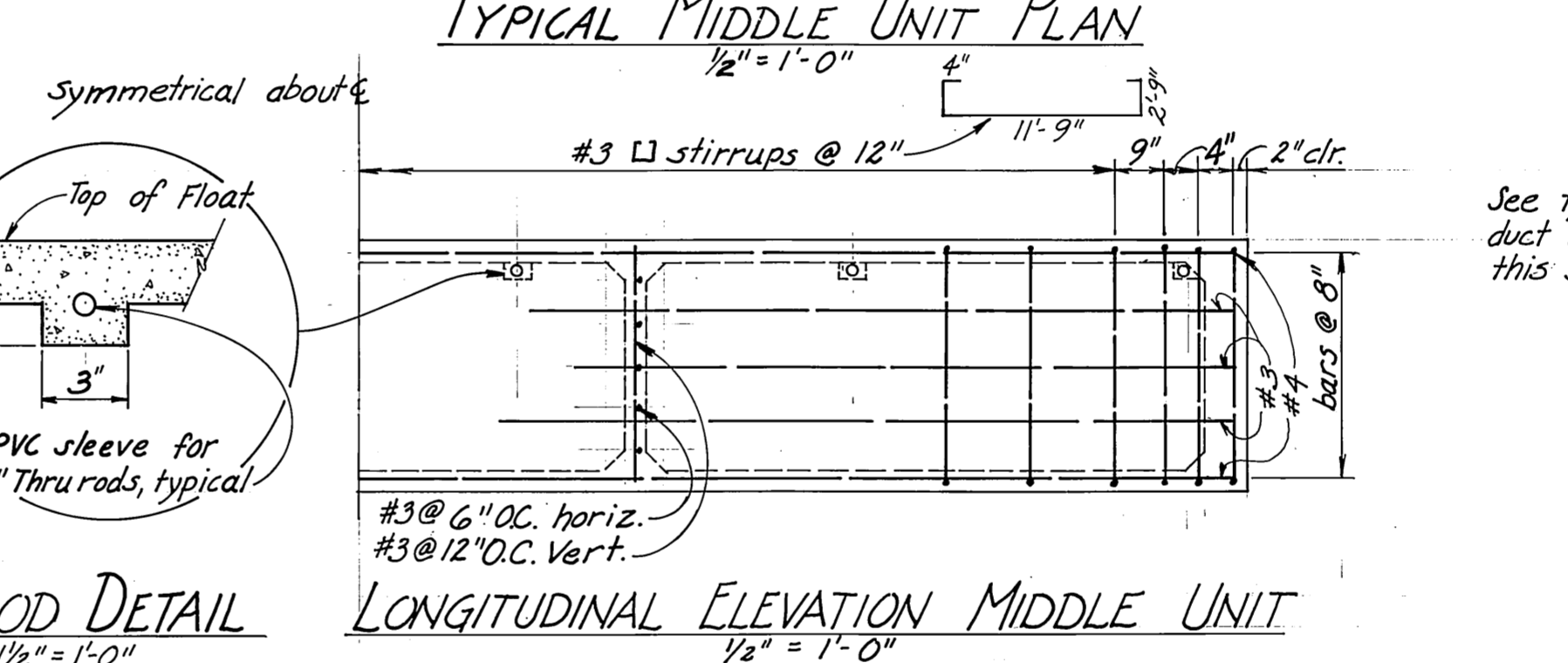
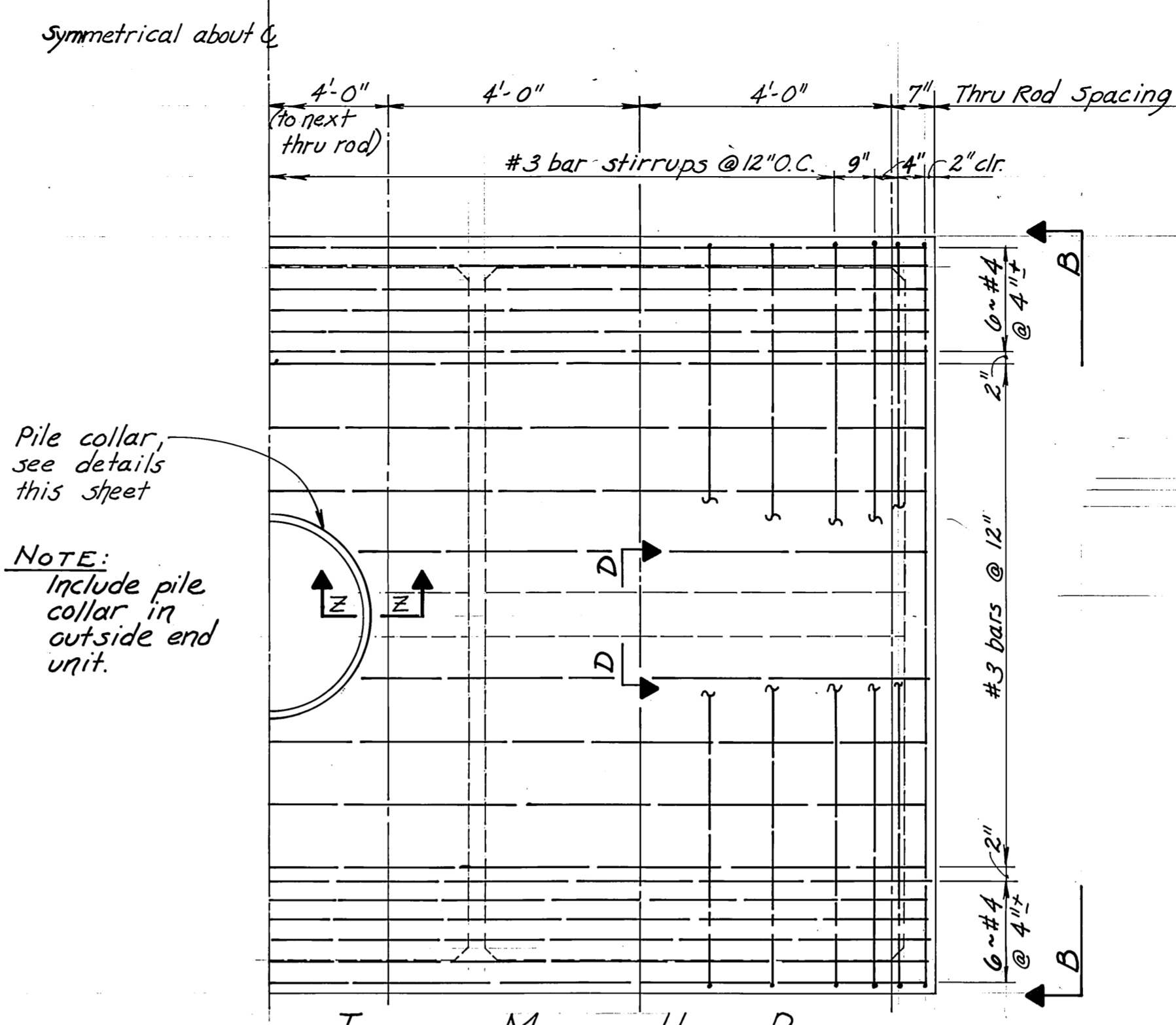
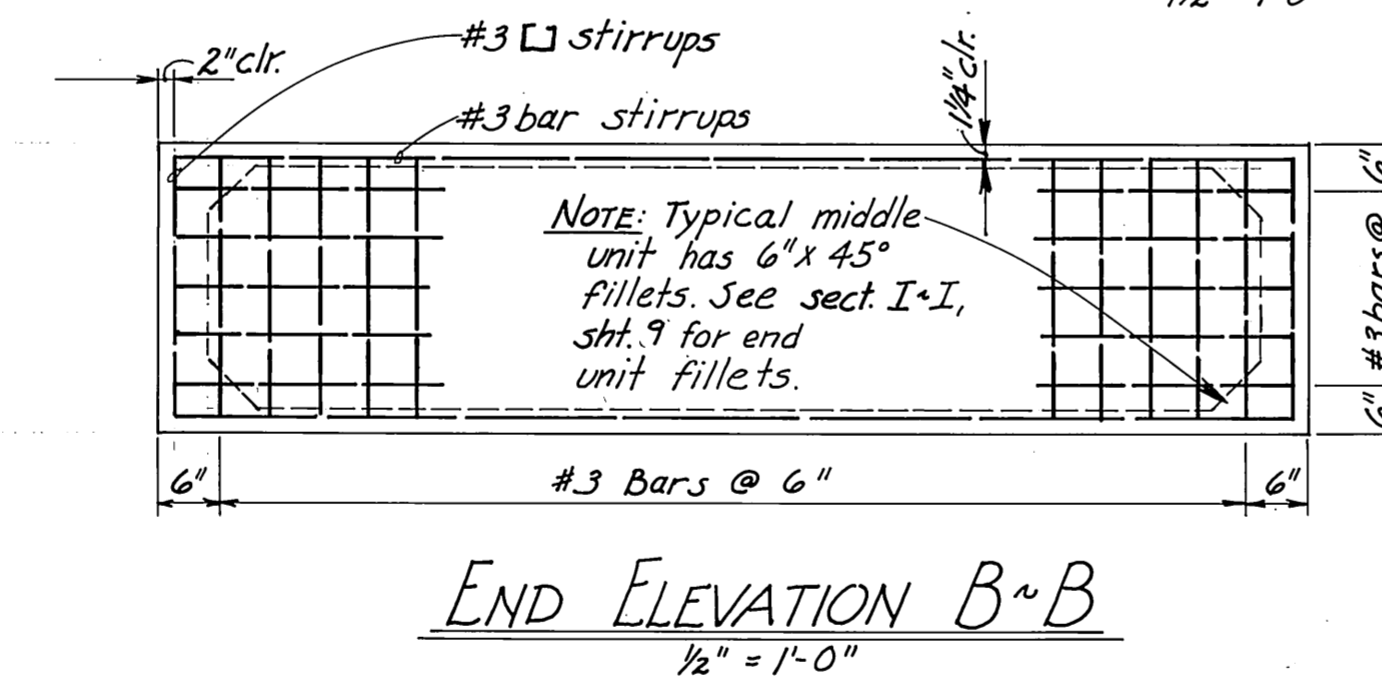
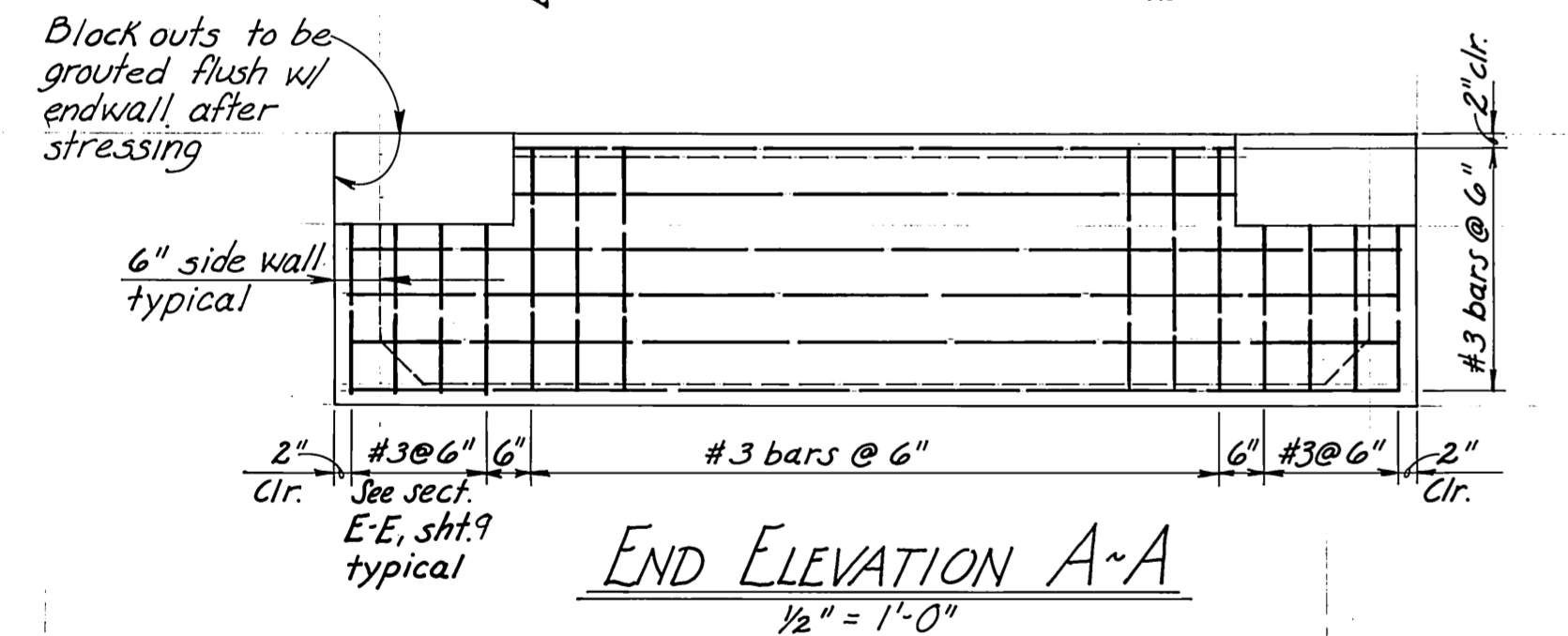
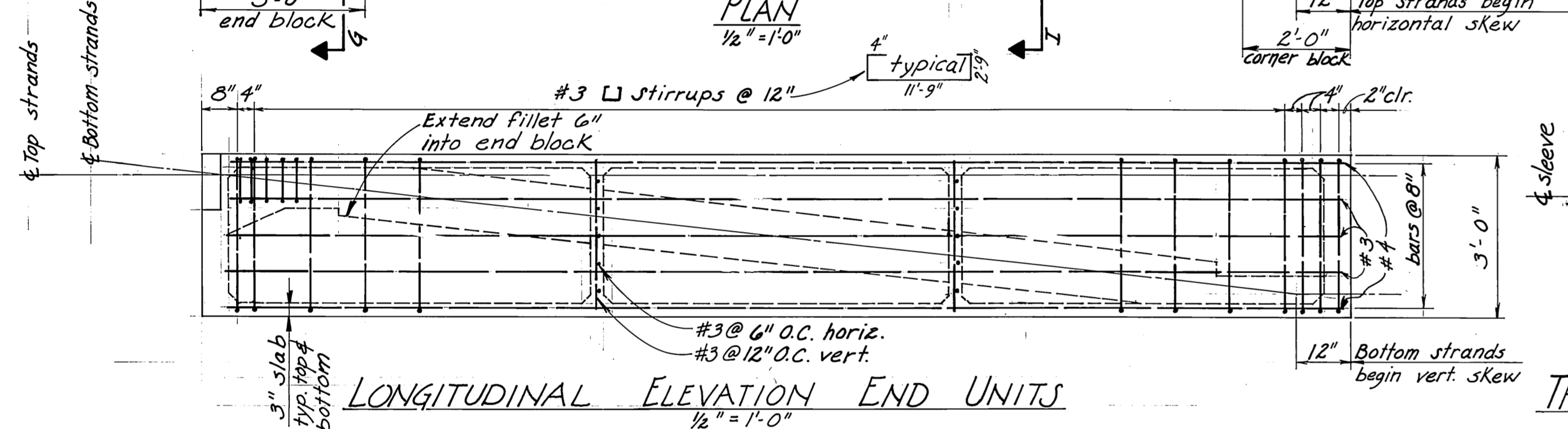
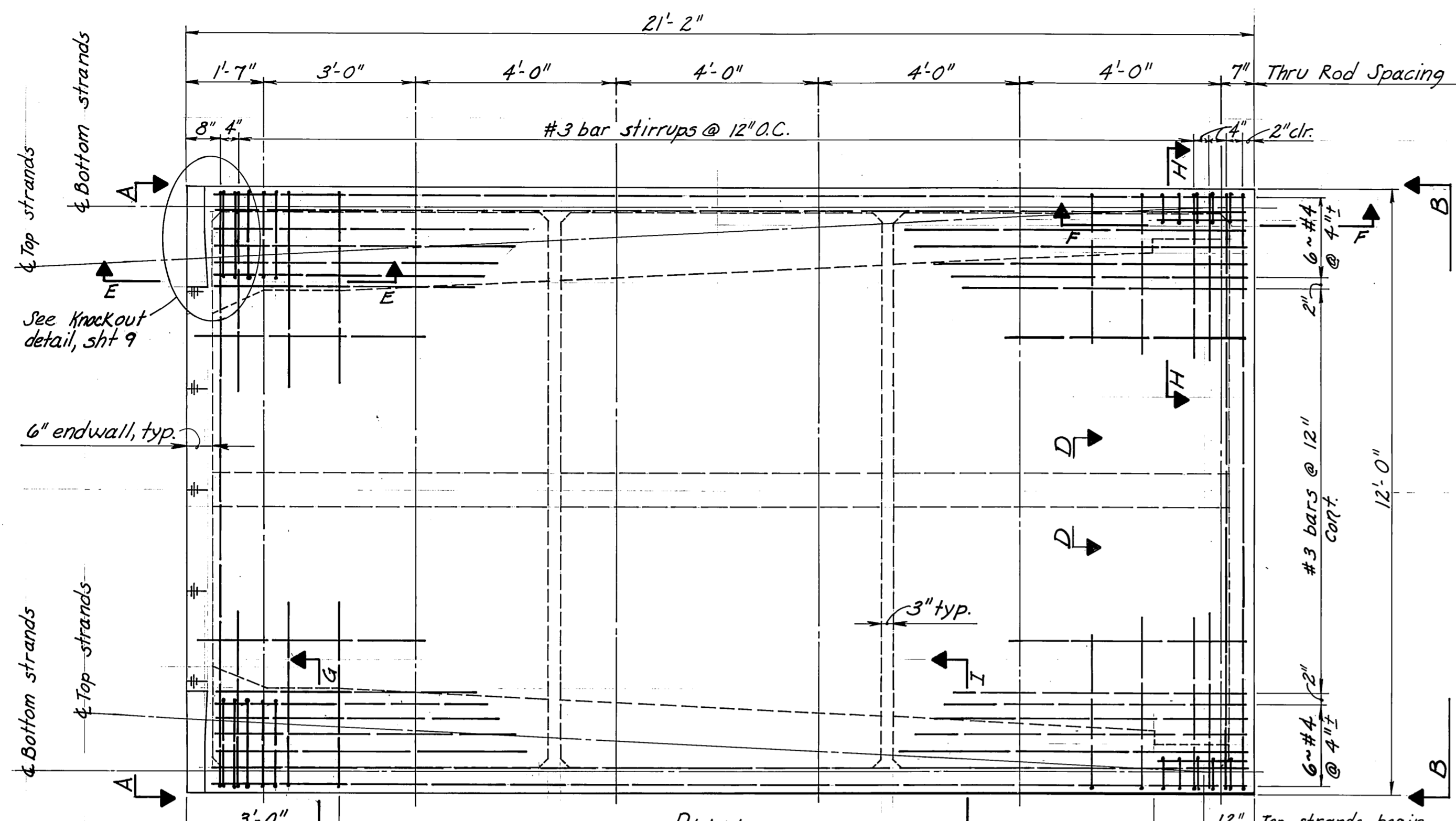


SECTION M~M  
 1" = 1'-0"

AS-BUILT  
 Date: 5-9-81  
 Division of Harbor Design and Construction



STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
SKAGWAY		ALASKA
12' Post Tensioned Float Layout & Misc. Details		
SCALE: As NOTED	SURVEYED	APPROVED
DESIGNED: SL	DRAWN: SJS	Robert T. Sisk Chief of Design
CHECKED:	DATE: 6-1-79	
PROJECT NUMBER: K 78147	SHEET 7 OF 28	



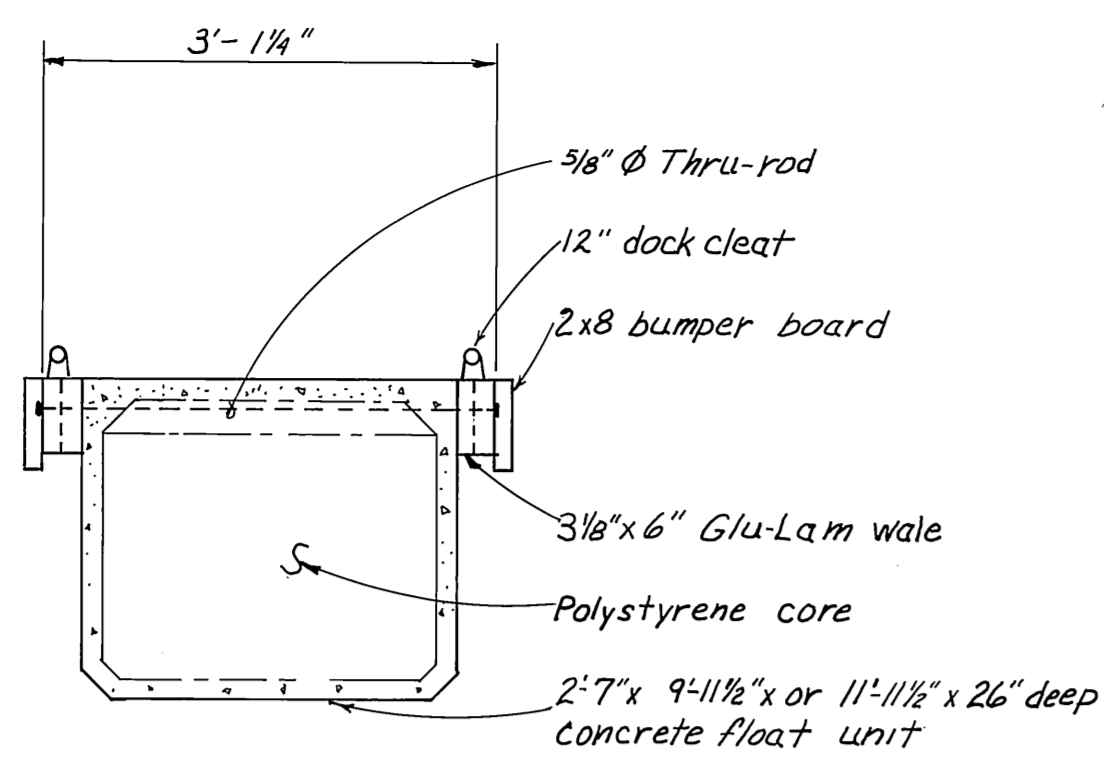
- GENERAL NOTES**
- The method of post-tensioning is optional as per specifications.
  - Three 0.6" Ø or four 0.5" Ø galvanized, 7 wire strands may be used per tendon.
  - Final effective force per tendon shall equal 75 Kips.
  - Tendons and end anchorage shall be grouted after stressing.
  - Concrete  $f'_{ci}$  = 4000 psi minimum @ stressing  
 $f'_c$  = 5000 psi at 28 days  
 $w_t$  = 115 lb/ft<sup>3</sup>
  - Float units shall be match cast.
  - Provide 3000 lbs additional floatation (as per timber float floatation specifications) for each end unit.

**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction

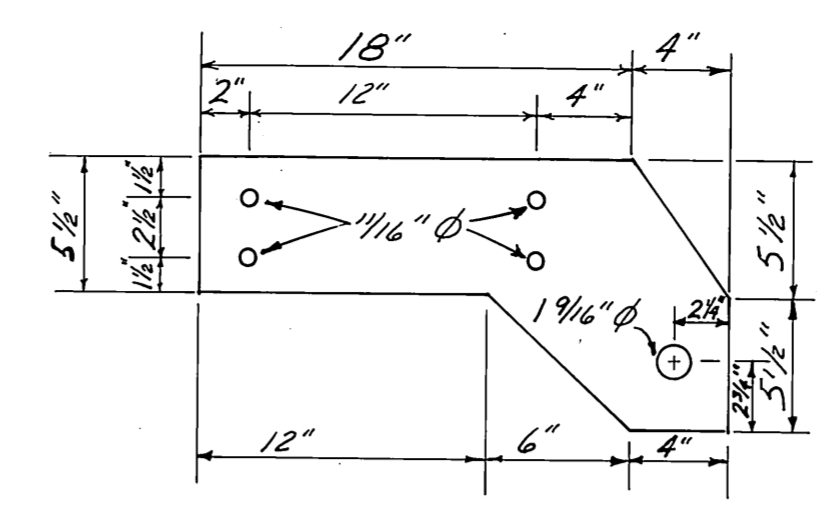
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
SKAGWAY		ALASKA	
<b>12" POST TENSIONED CONCRETE FLOAT</b>			
SCALE: As NOTED	SURVEYED:	APPROVED:	
DESIGNED: J.L.	DRAWN: J.S.		
CHECKED:	DATE: 6-1-79		
PROJECT NUMBER: K 78147	SHEET: 8 OF 28		



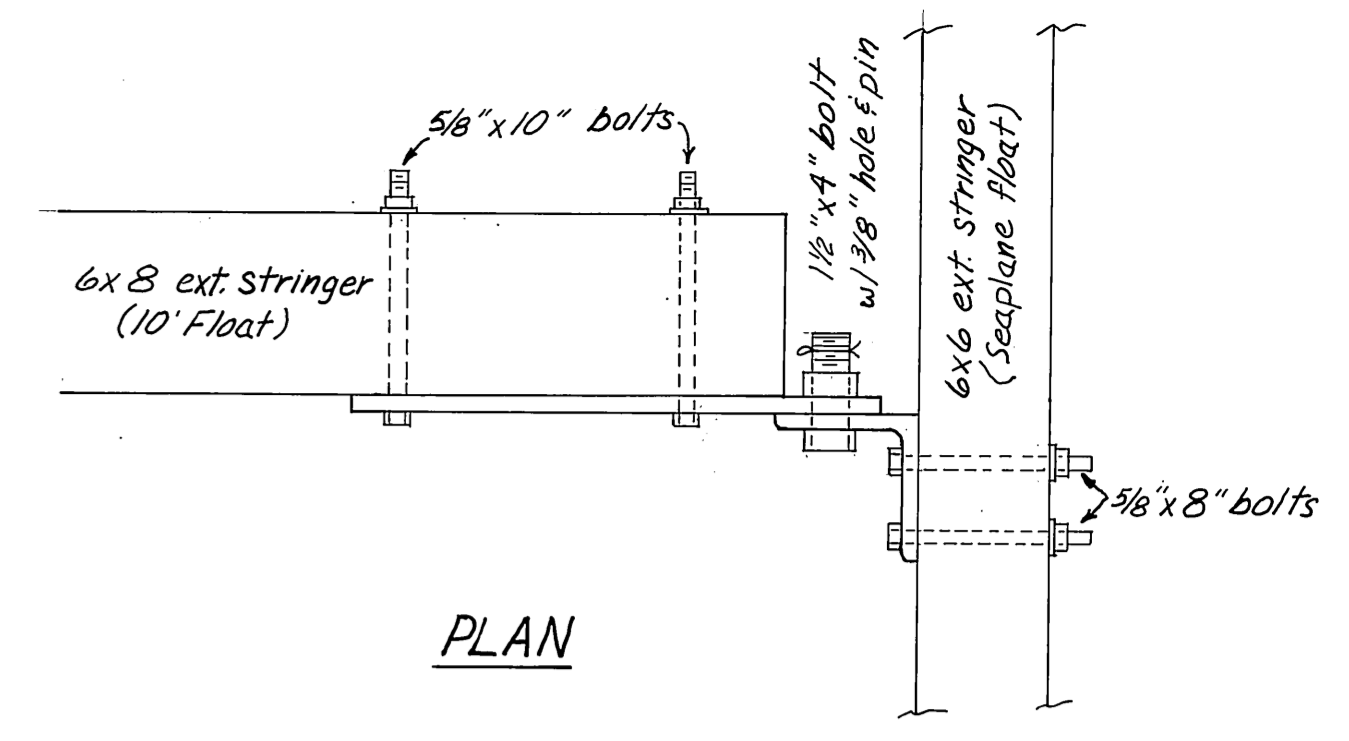




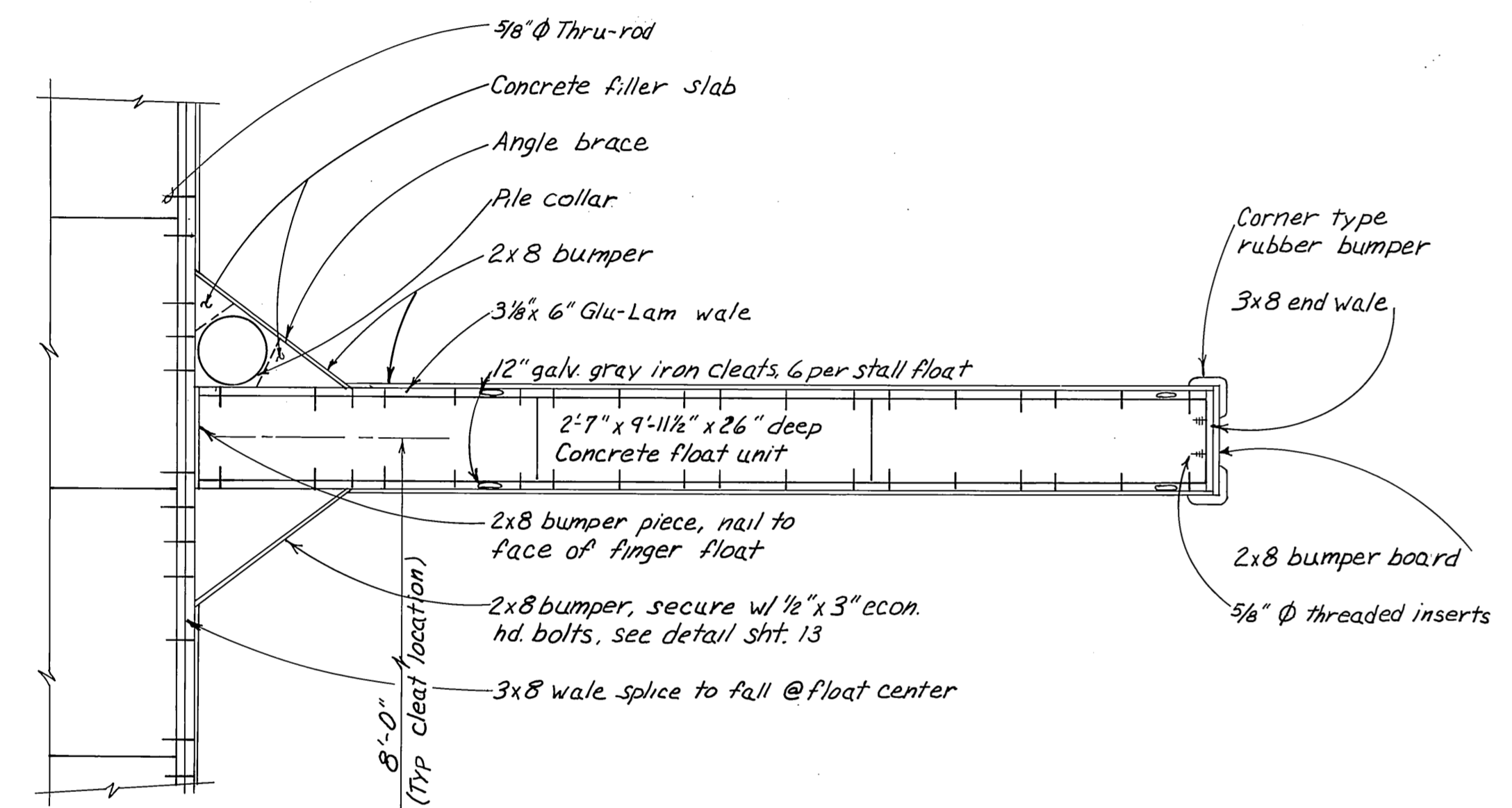
**3' Stall Section**  
3/4" = 1'-0"



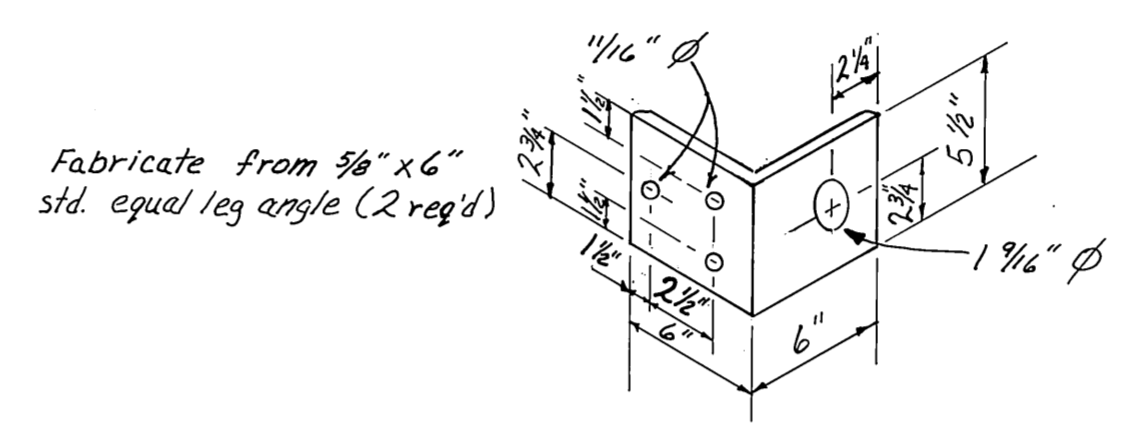
**HINGE PLATE**  
Fabricate from 5/8" plate (2 req'd)



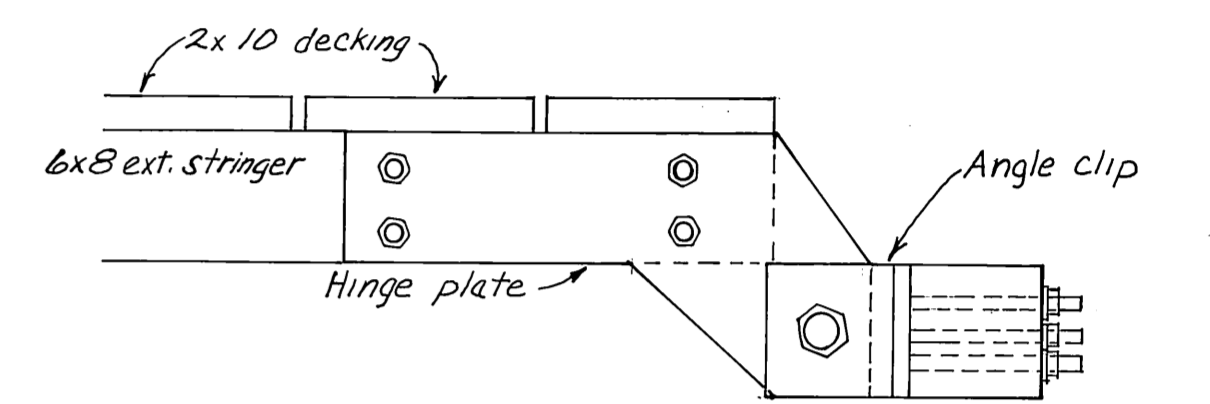
**PLAN**



**3'x 30' Stall Float (107.9 sf)**  
1/4" = 1'-0"

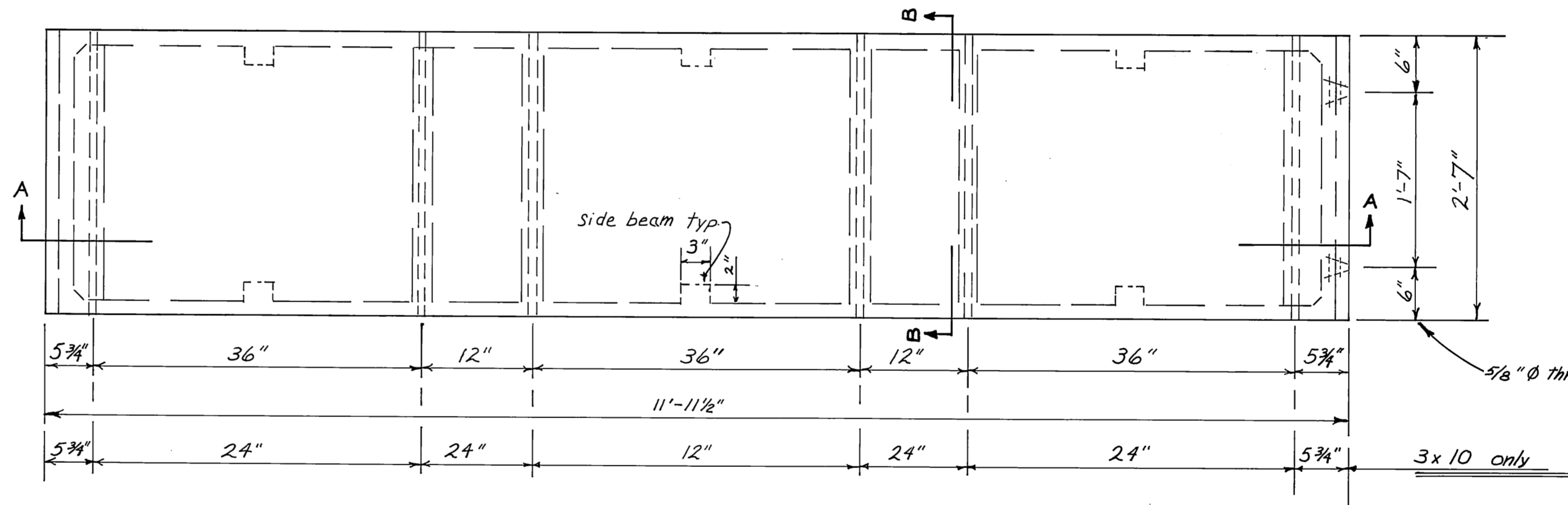


**ANGLE CLIP**

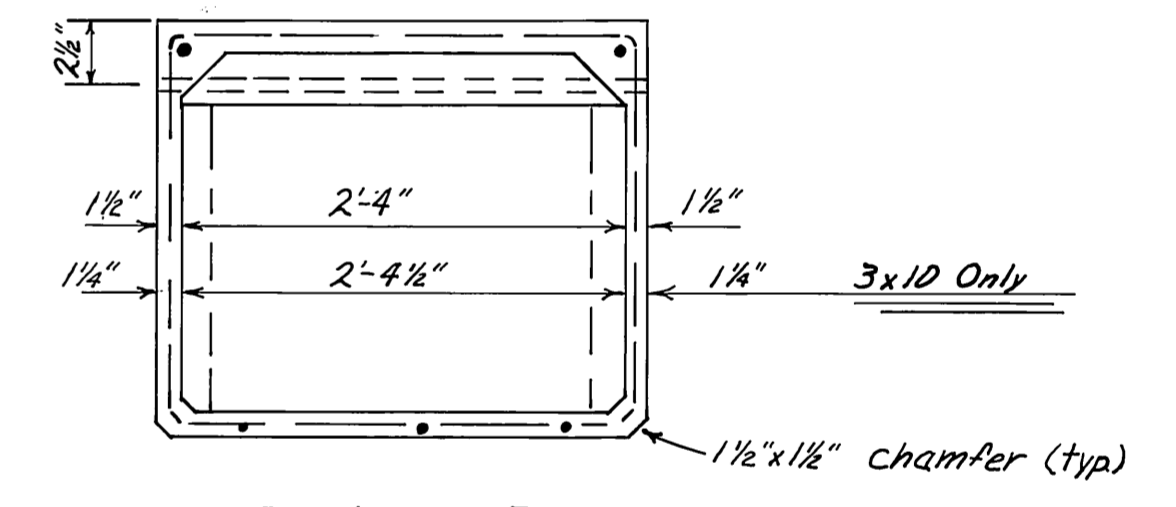


**ELEVATION**

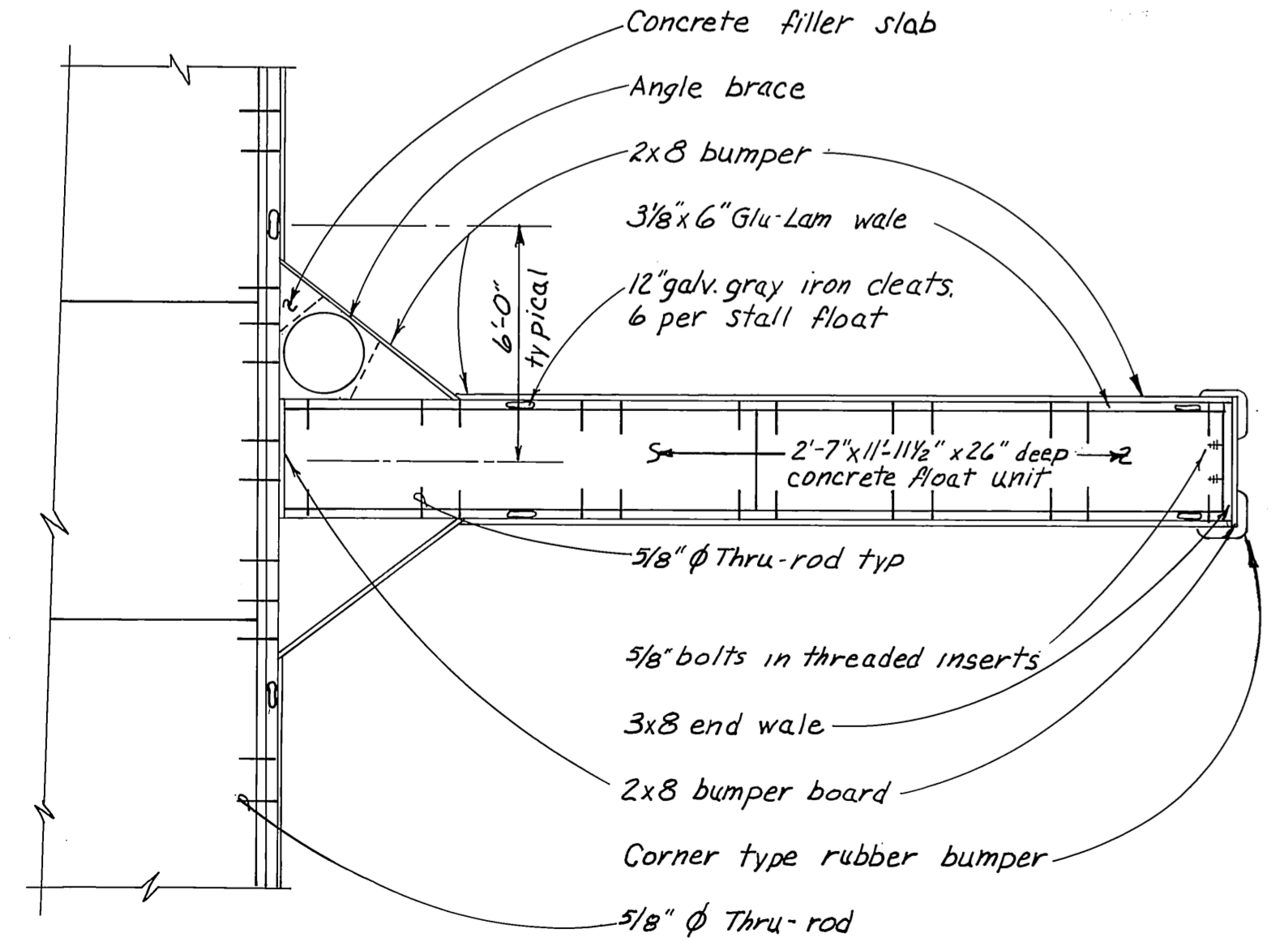
**SEAPLANE FLOAT CONNECTION**  
1/2" = 1'-0"



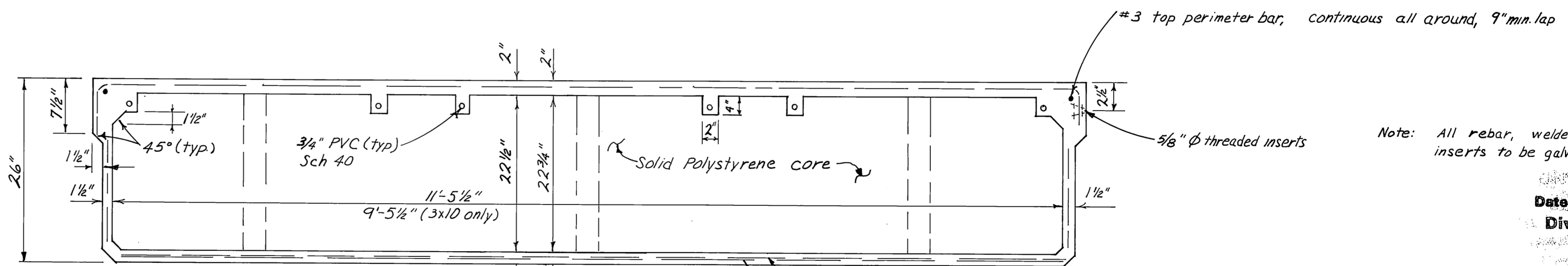
**Section A-A**  
1" = 1'-0"



**Section B-B**



**3'x 24' Stall Floats (89.3 sf)**  
1/4" = 1'-0"



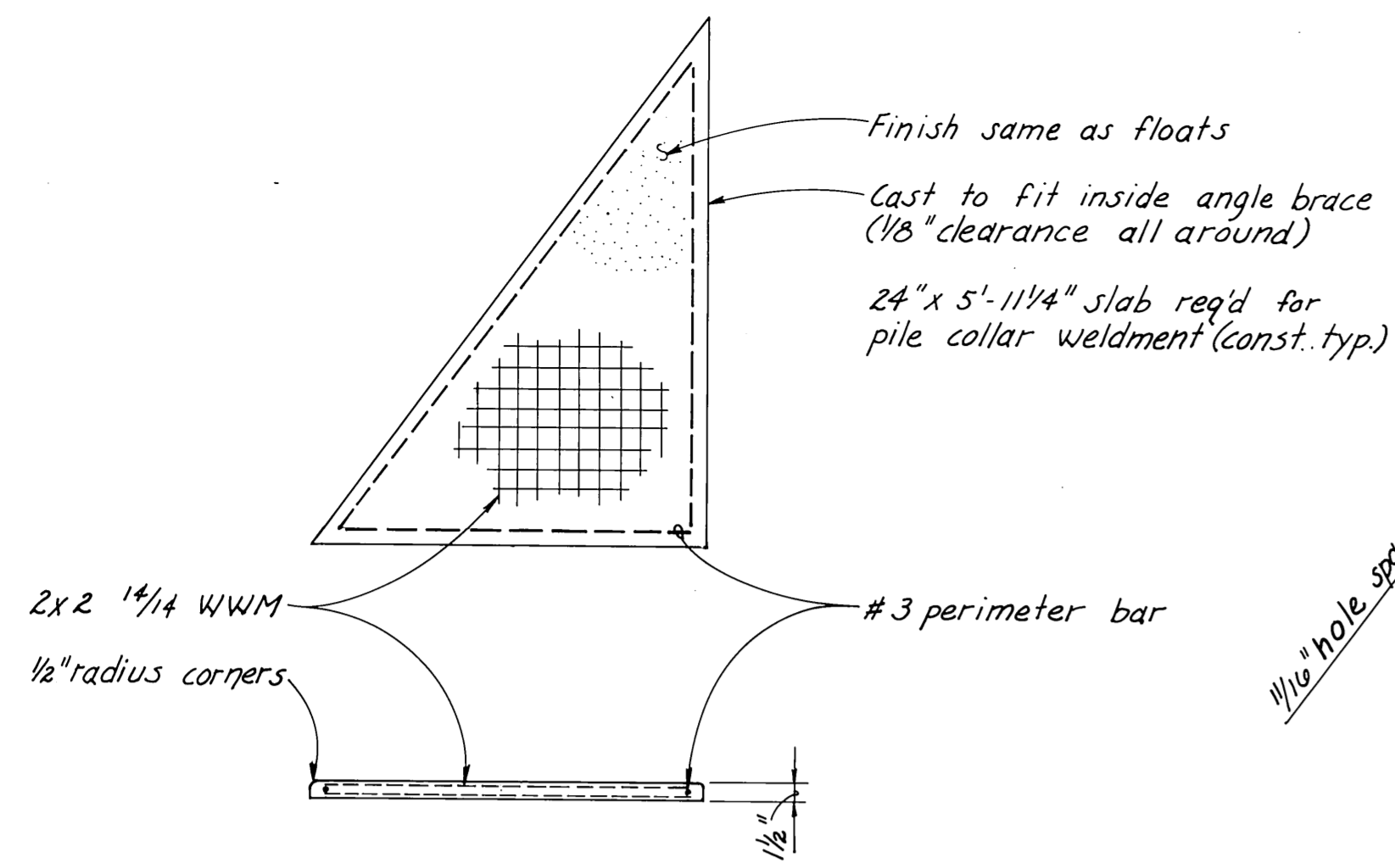
**3 x 12 STANDARD STALL FLOAT**  
**3 x 10 STALL FLOAT SIMILAR EXCEPT AS NOTED**

Note: All rebar, welded wire mesh and threaded inserts to be galvanized (not dipped)

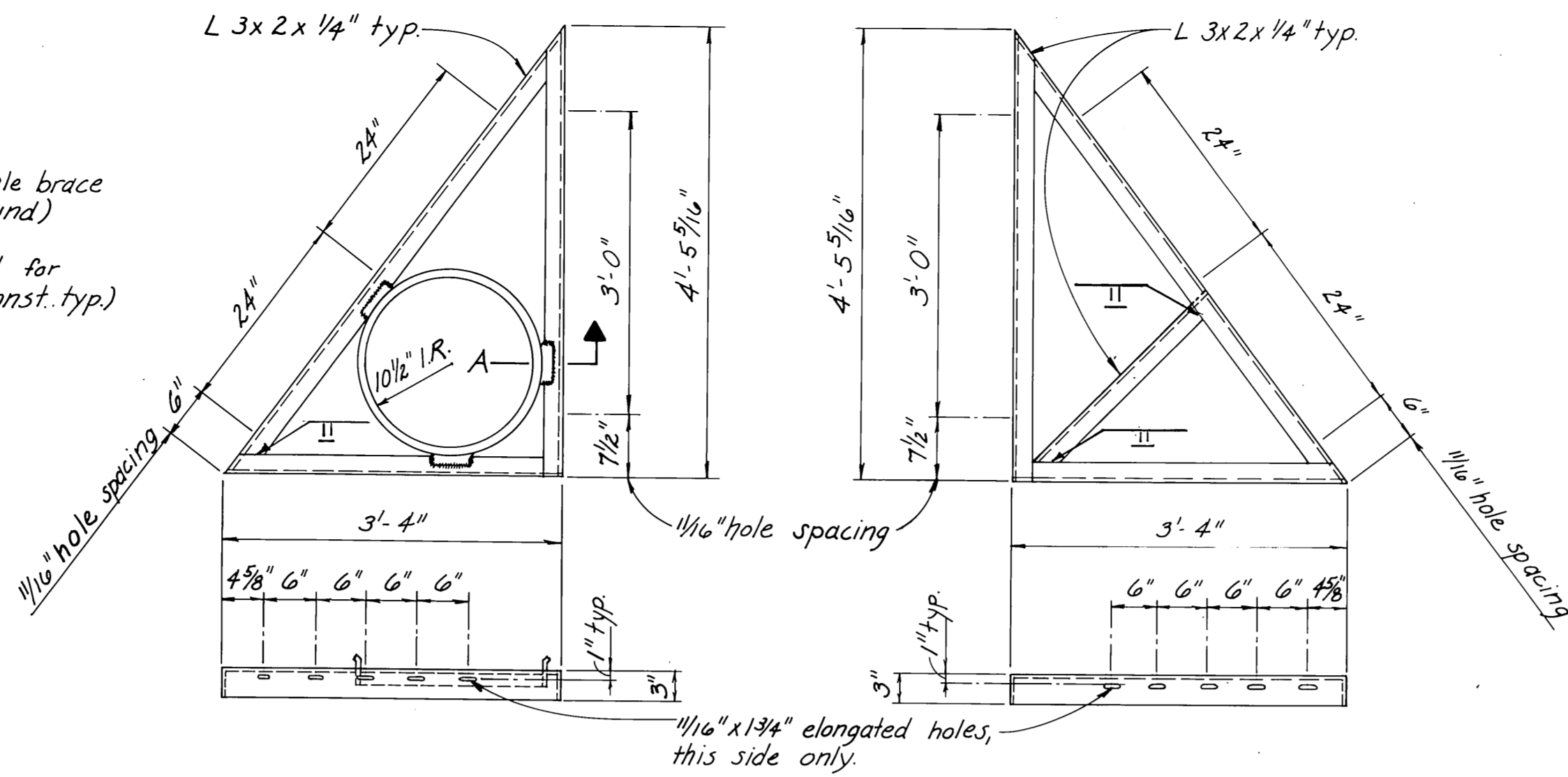
**AS-BUILT**  
Date: 3-2-84  
Division of Harbor Design and Construction

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		SKAGWAY	ALASKA
		<b>CONCRETE STALL FLOATS</b> <b>&amp; SEAPLANE FLOAT CONNECTION</b>	
SCALE: as noted	SURVEYED:	APPROVED	
DESIGNED: RB/DW	DRAWN: JDB	Robert P. Beck Chief of Design	
CHECKED:	DATE: Nov 79		
PROJECT NUMBER: K 78147	SHEET: 11 OF 28		



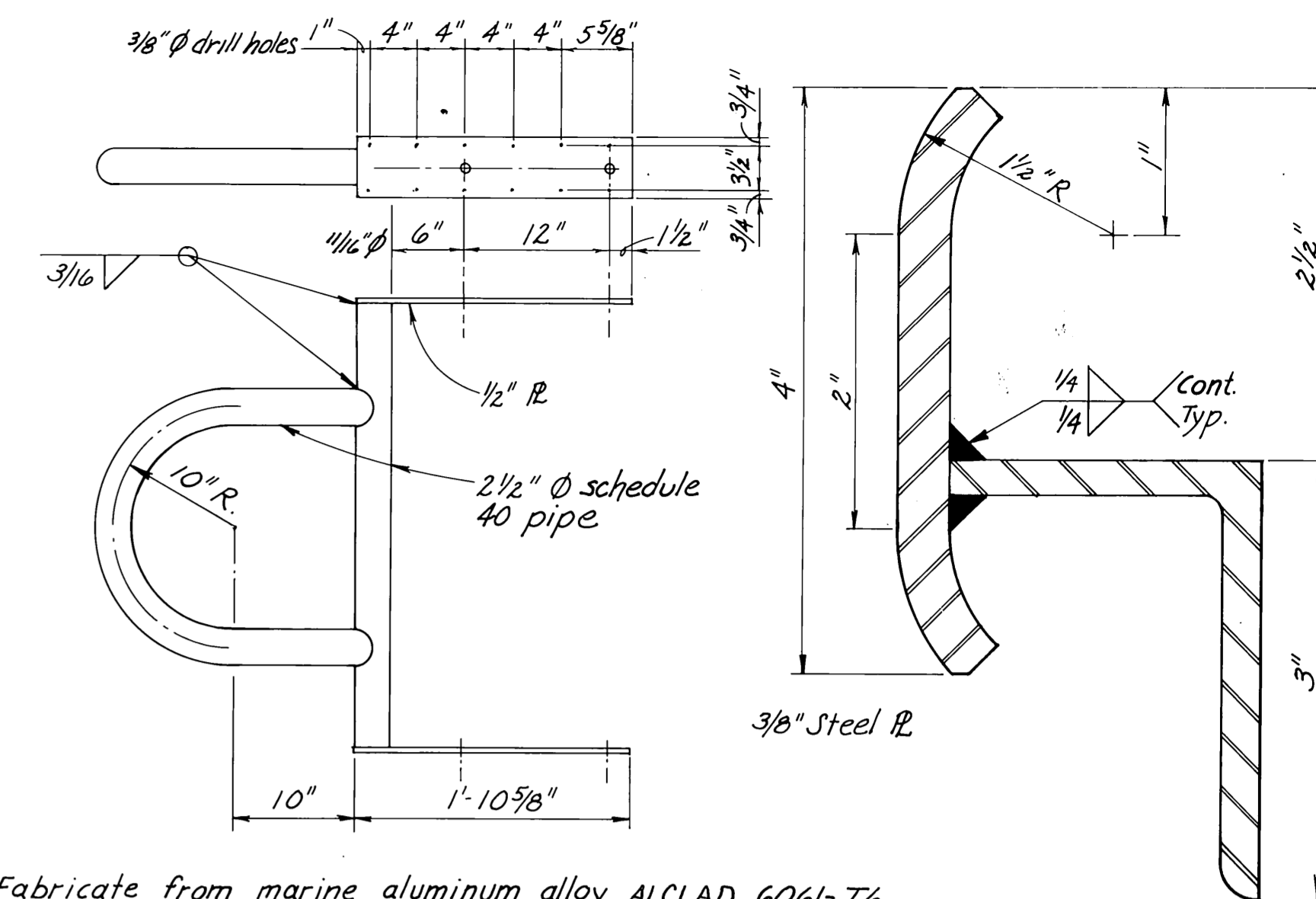
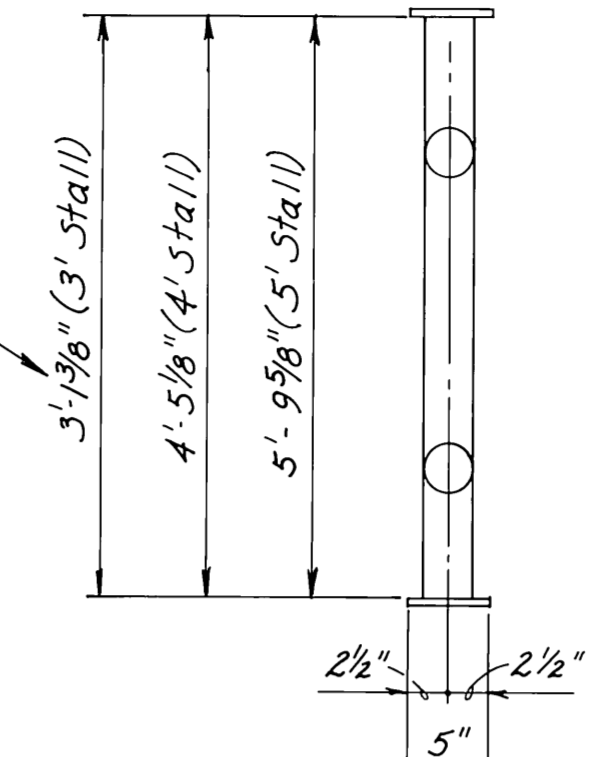


**CONCRETE FILLER SLAB DETAIL**  
3/4" = 1'-0"



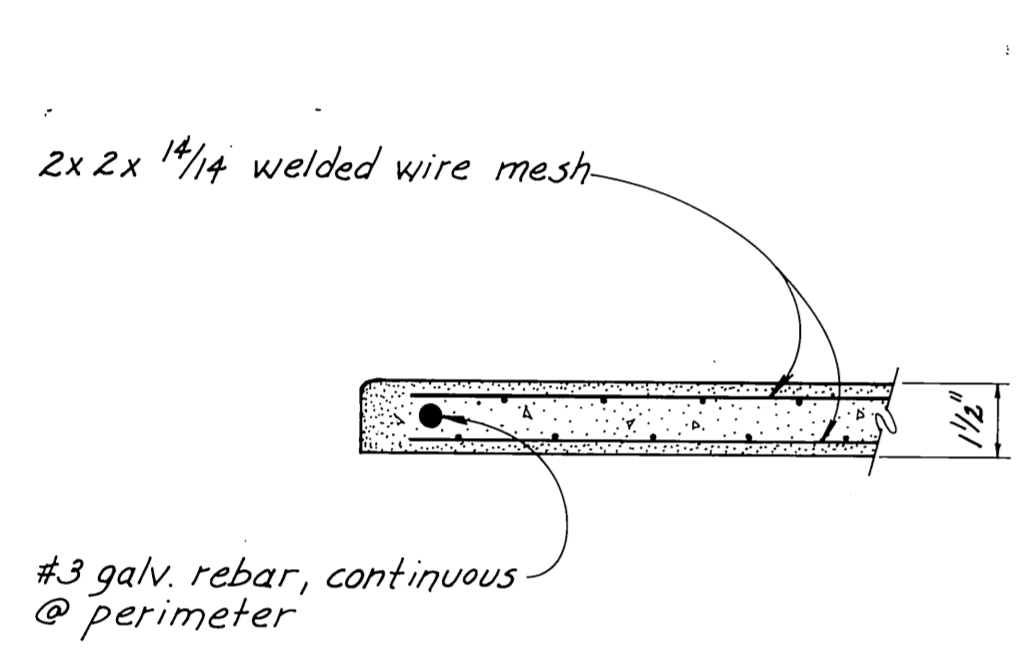
**ANGLE BRACE**  
3/4" = 1'-0"

NOTE:  
For timber stalls (40) make  
inside dimension 3'-3 1/2"  
(10 required)

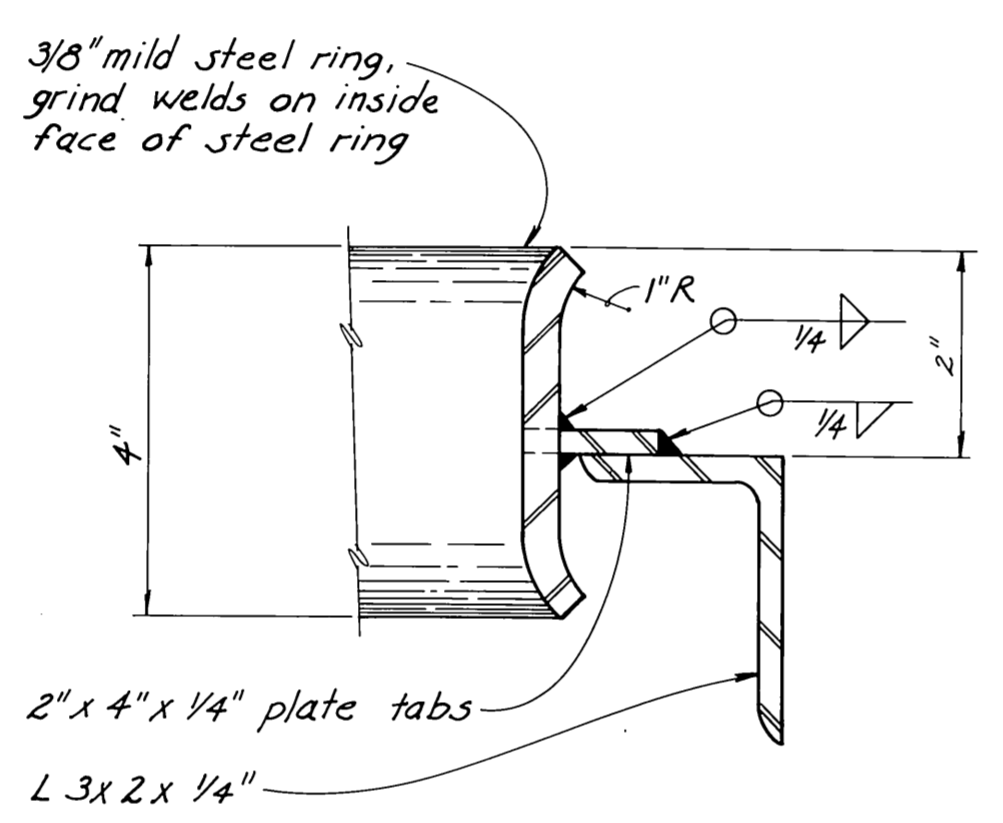


**STALL FLOAT PILE COLLAR**  
1" = 1'-0"

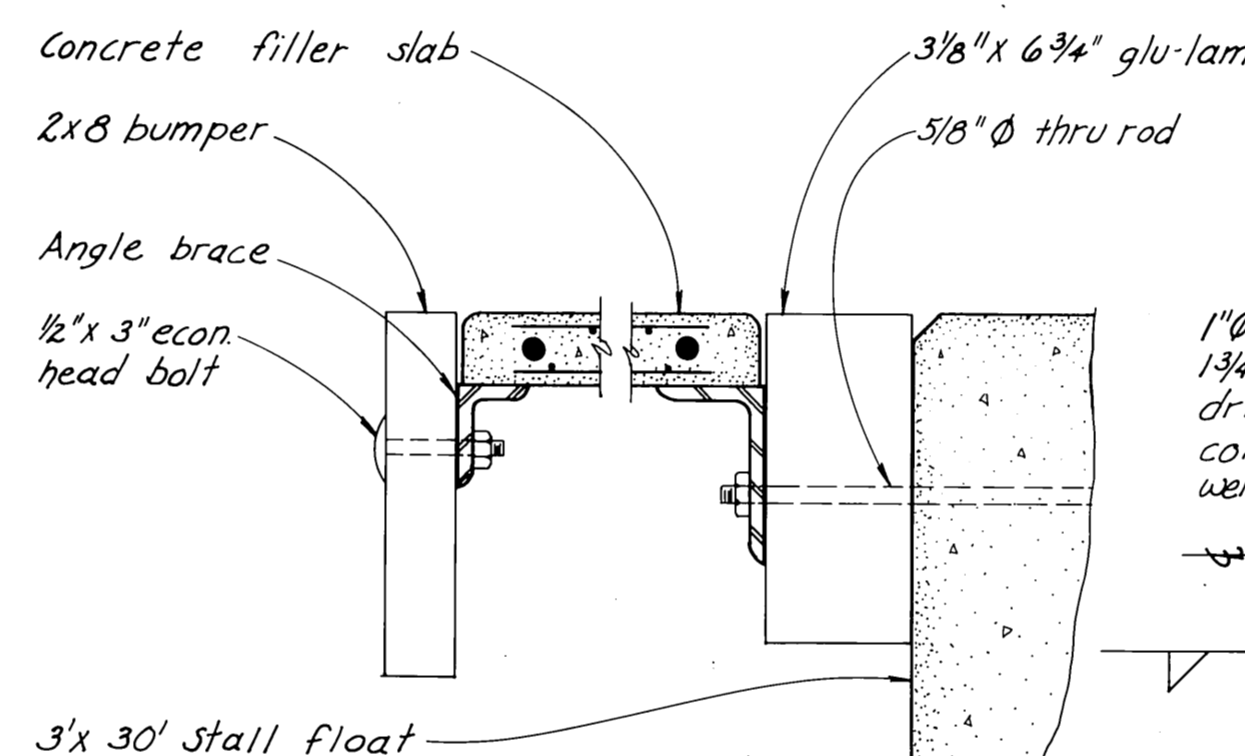
Fabricate from marine aluminum alloy ALCLAD 6061-T6



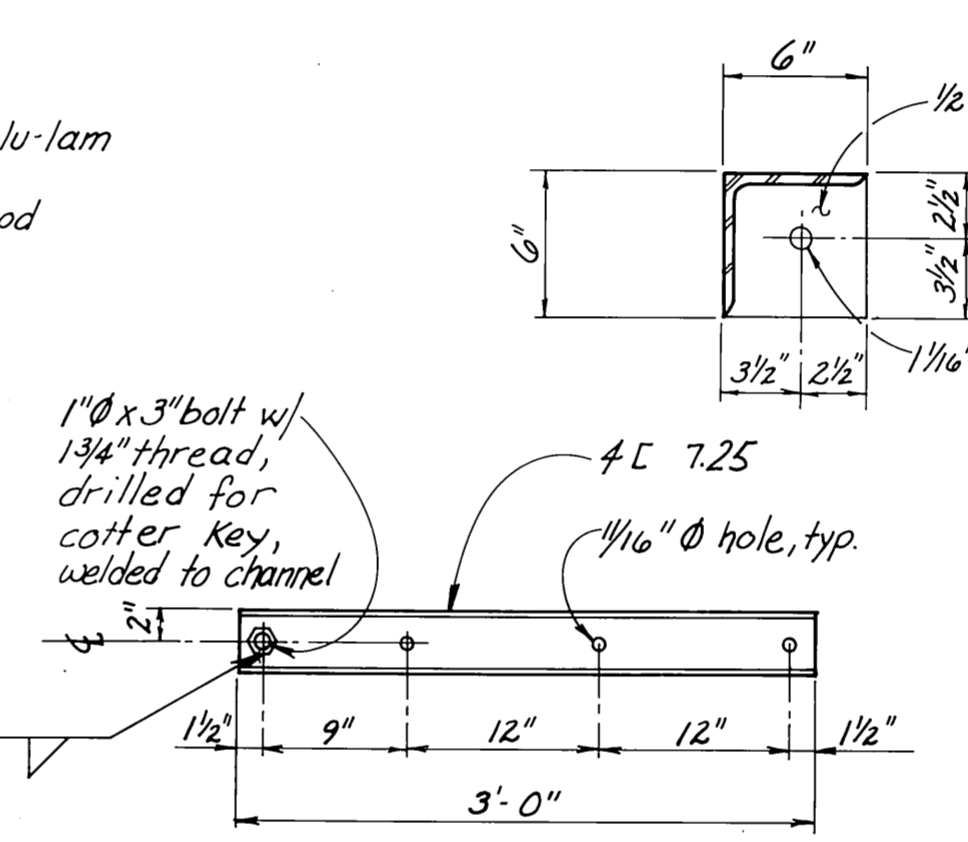
**FILLER SLAB SECTION**  
3" = 1'-0"



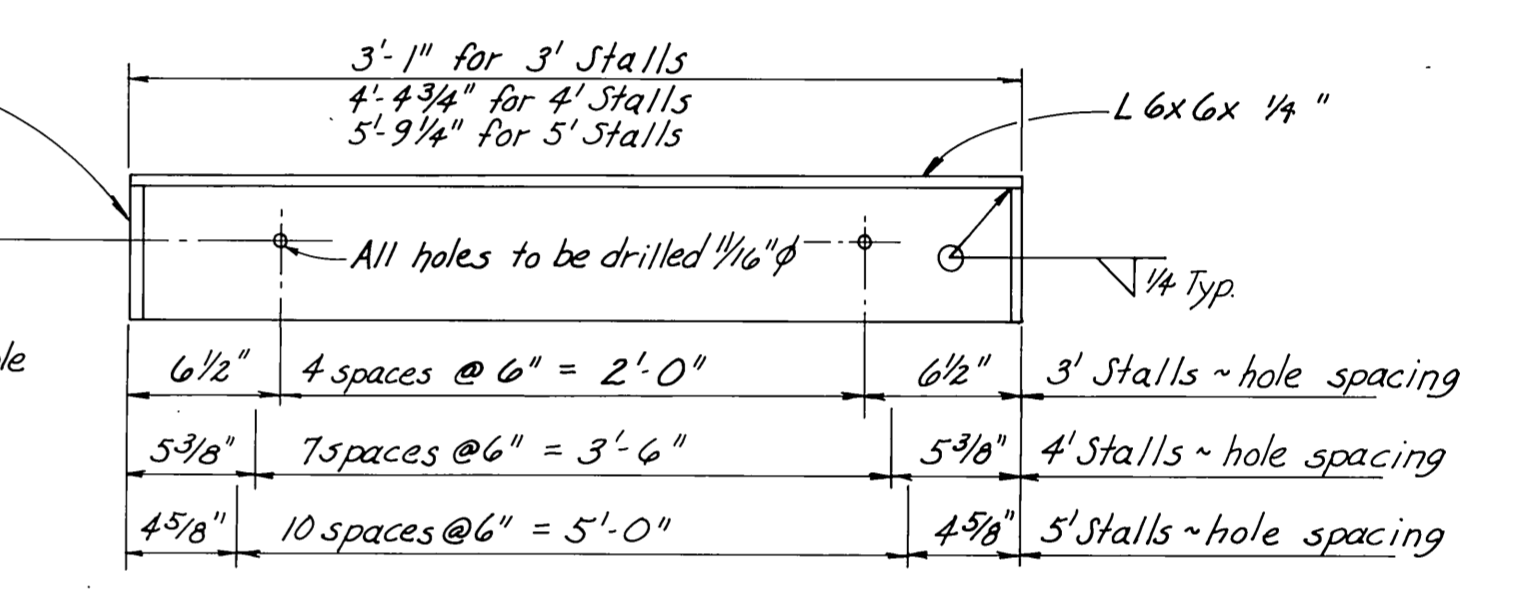
**SECTION A**  
half size



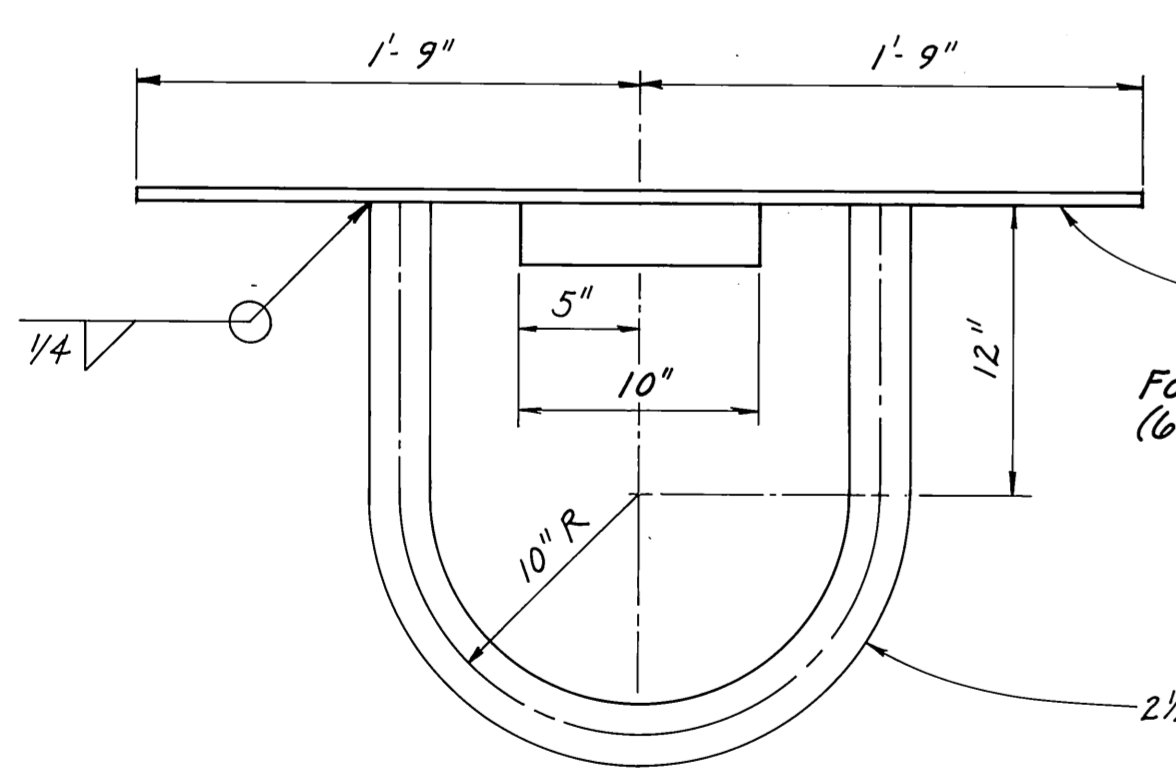
**DETAIL AT BRACE**  
3" = 1'-0"



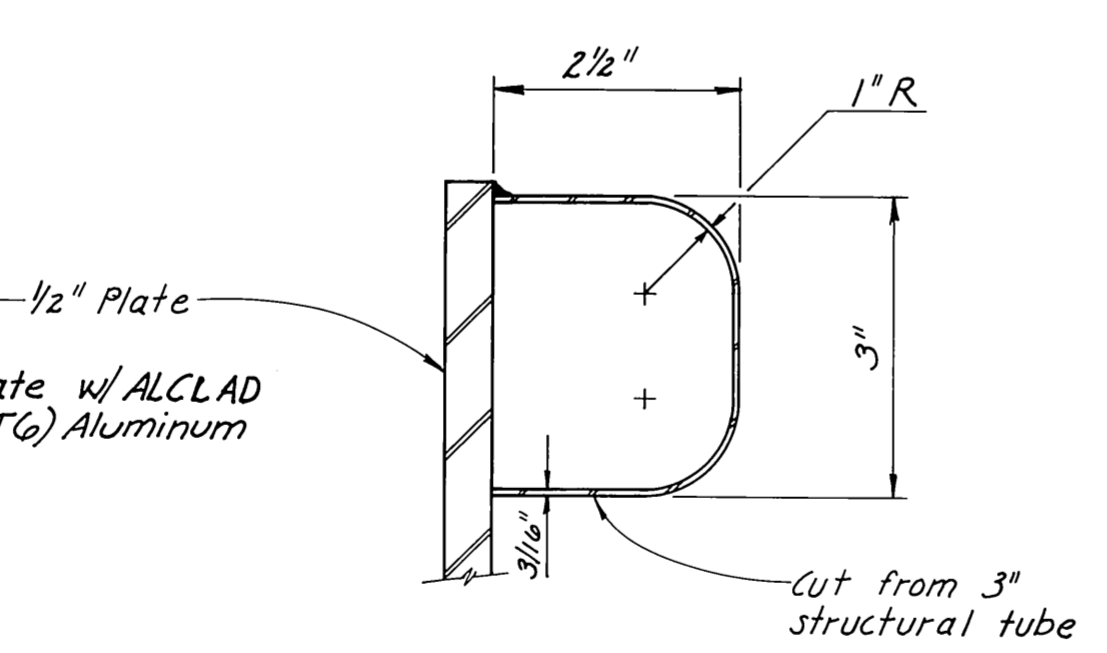
**4E 7.25 CHANNEL CONNECTOR DETAIL**  
1" = 1'-0"



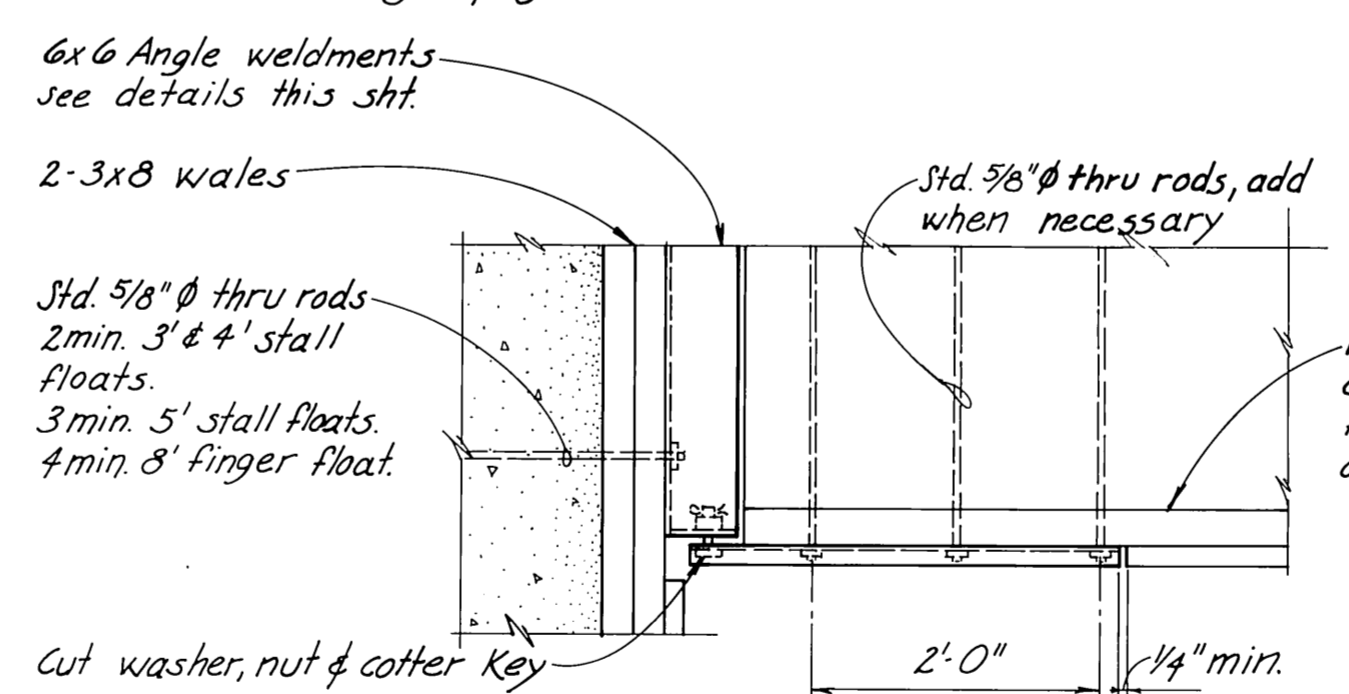
**6x6 L WELDMENT DETAIL**  
1 1/2" = 1'-0"



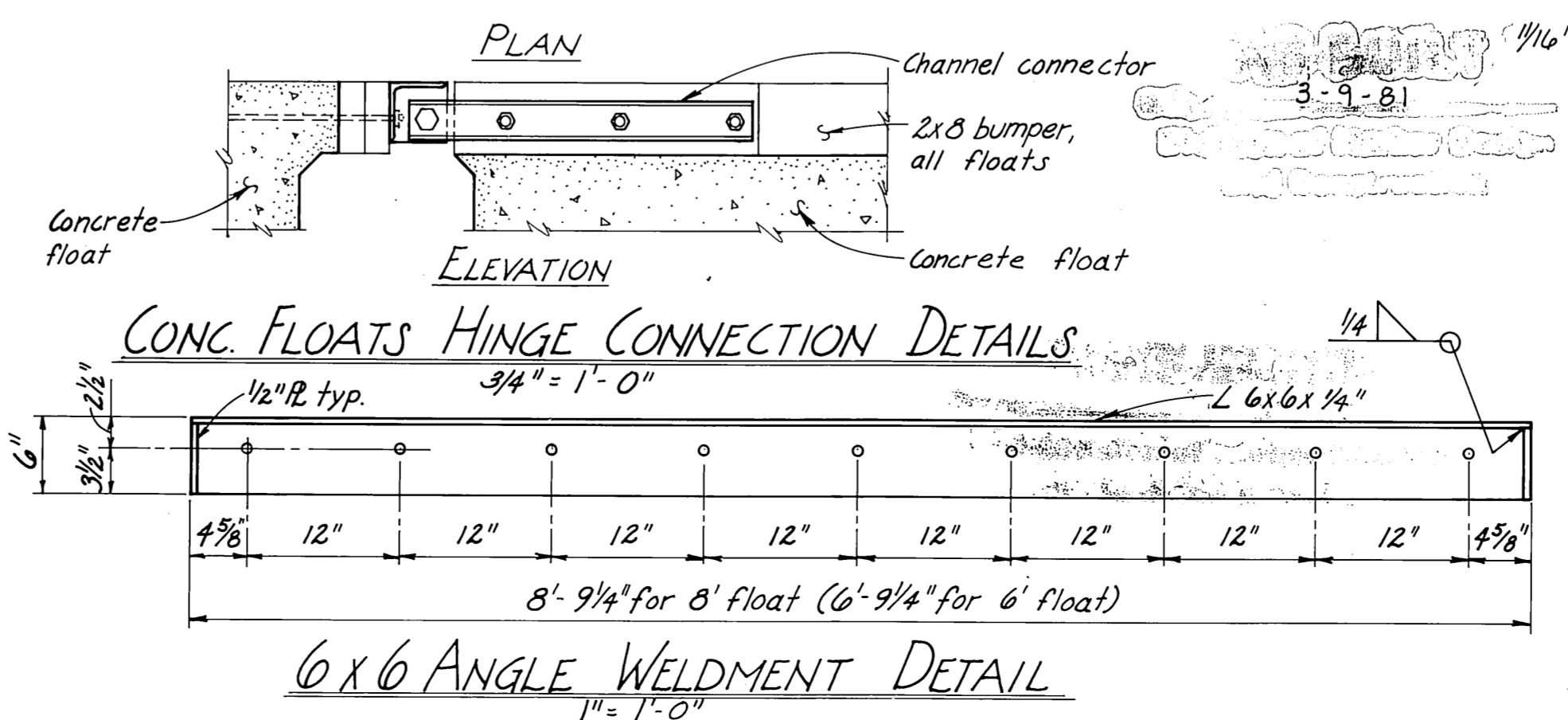
**EXTERIOR PILE COLLAR 4 Req'd.**  
1 1/2" = 1'-0"



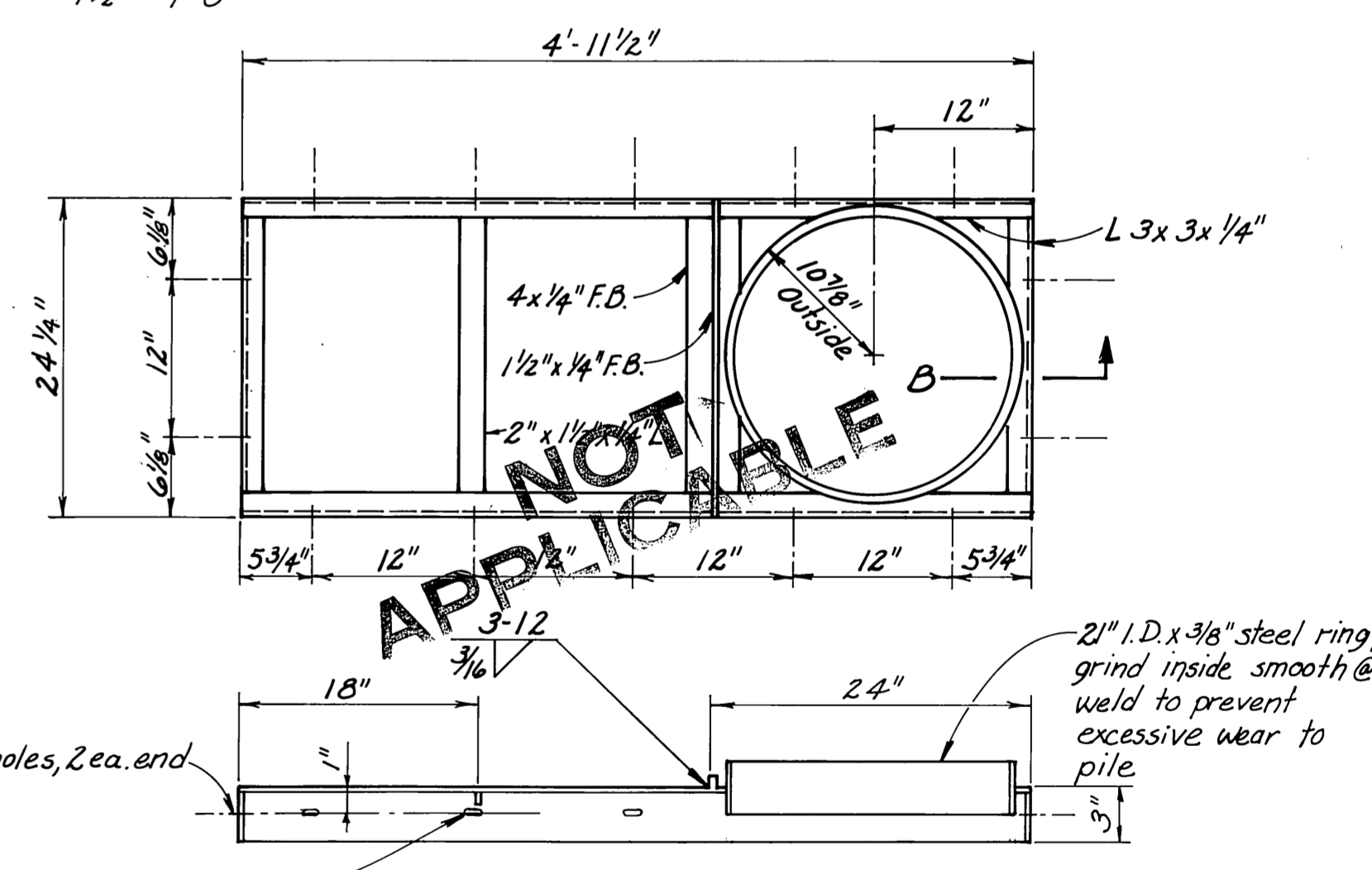
**RUB SHOE DETAIL**  
half size



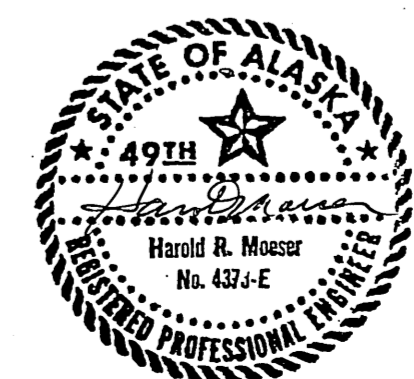
**CONC. FLOATS HINGE CONNECTION DETAILS**  
3/4" = 1'-0"

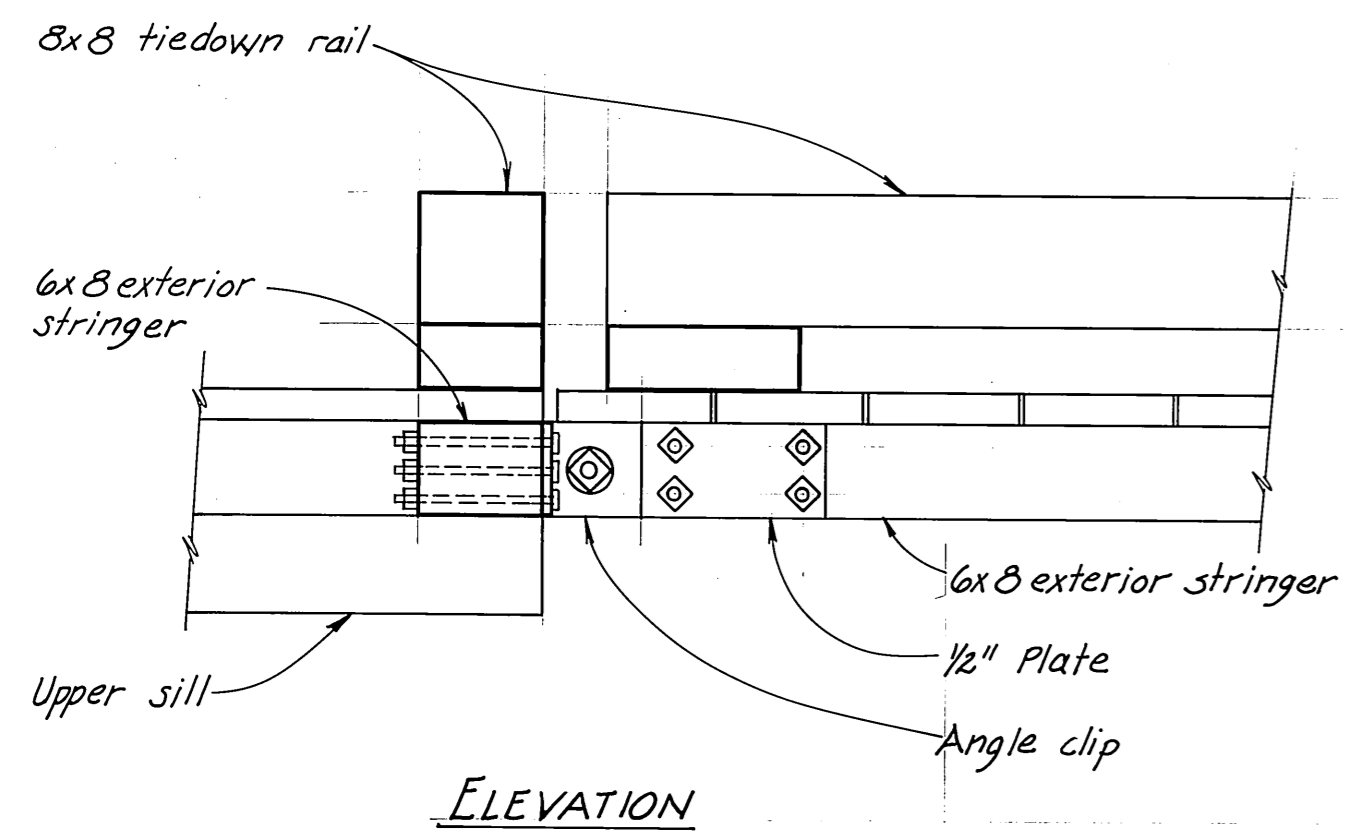


**6x6 ANGLE WELDMENT DETAIL**  
1" = 1'-0"

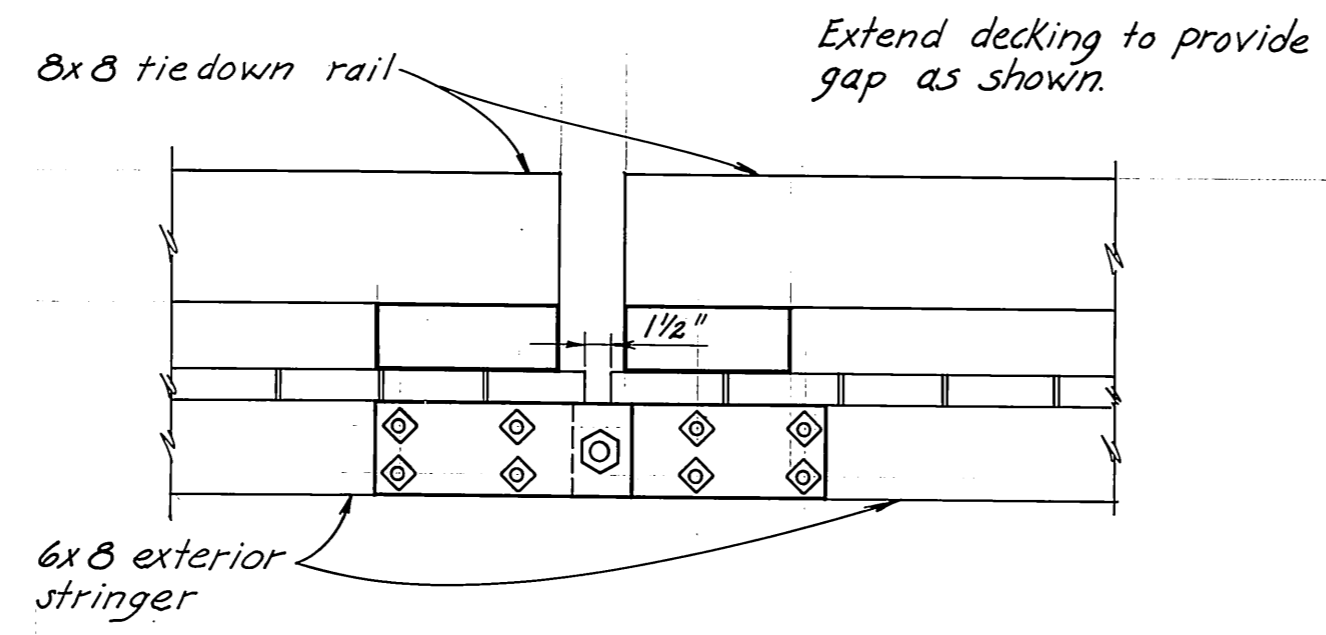


**PILE COLLAR WELDMENT DETAILS**  
1" = 1'-0"

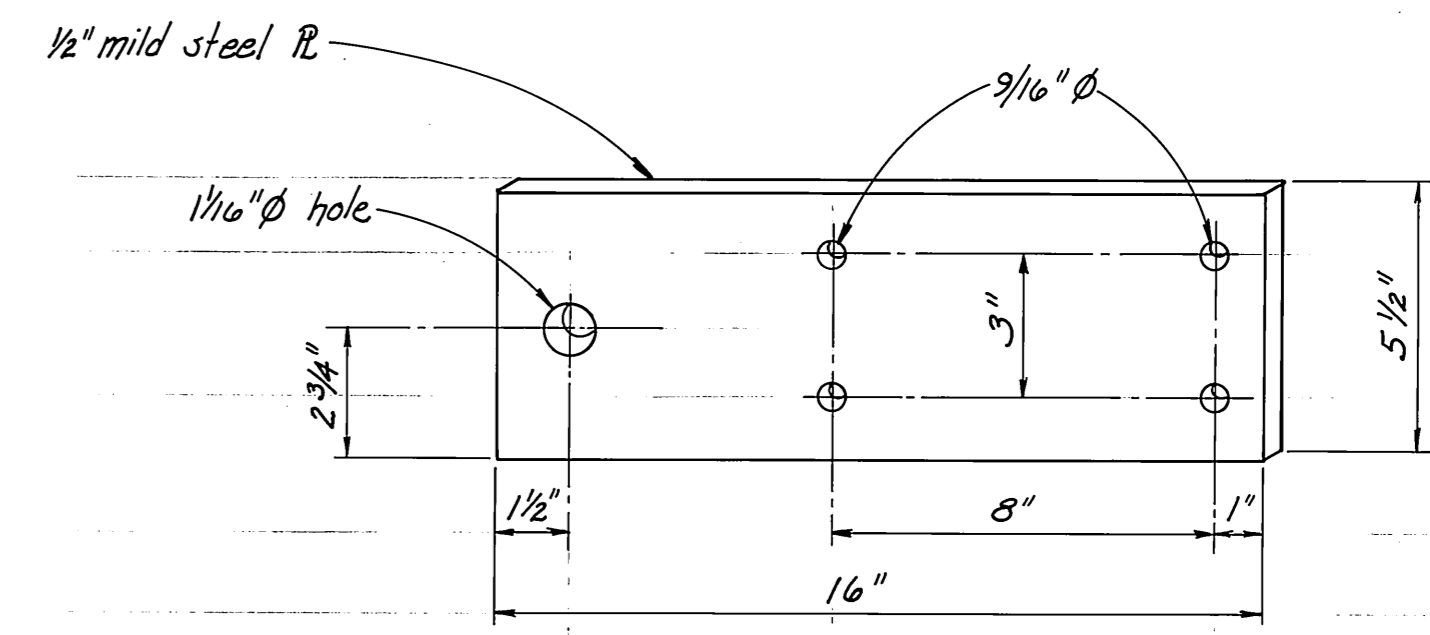
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
SKAGWAY		ALASKA	
<b>CONCRETE STALL FLOAT WELDMENTS &amp; MISCELLANEOUS DETAILS</b>			
SCALE AS NOTED	SURVEYED	APPROVED	
DESIGNED	DRAWN	 Chief of Design	
CHECKED	DATE		
PROJECT NUMBER	K 78147	SHEET	13 OF 28



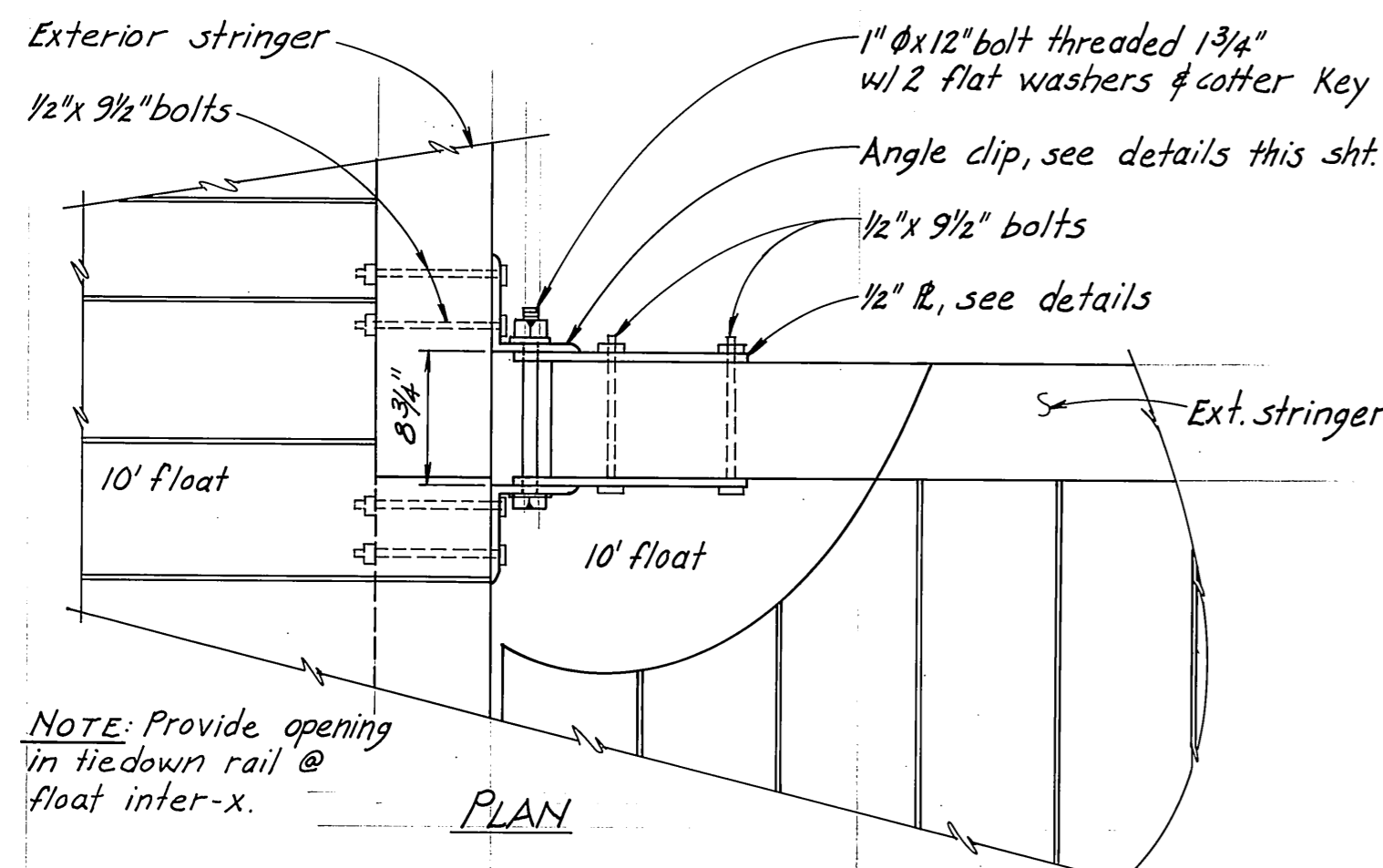
ELEVATION



ELEVATION



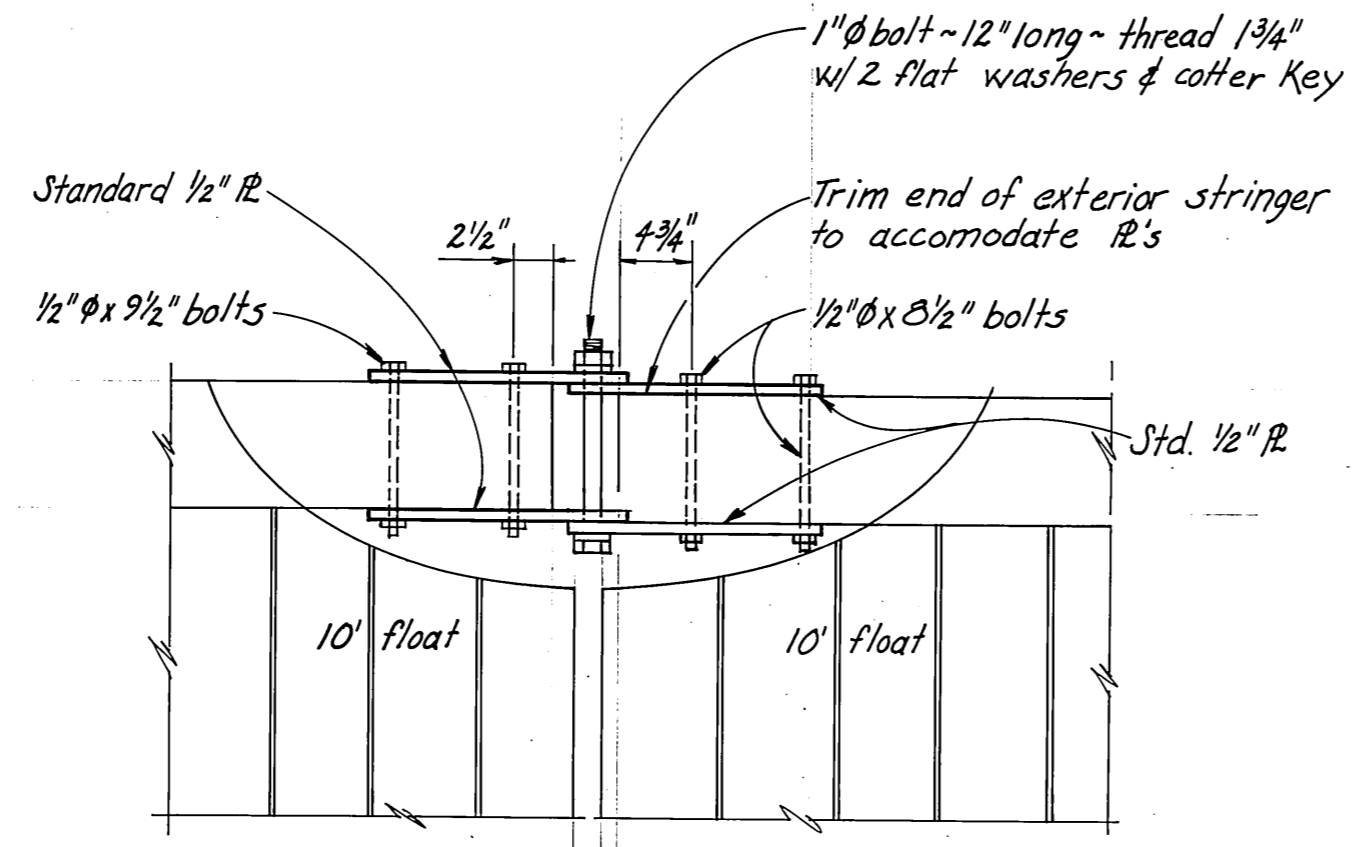
STANDARD 1/2" R  
3"-1'-0"



NOTE: Provide opening in tiedown rail @ float inter-x.

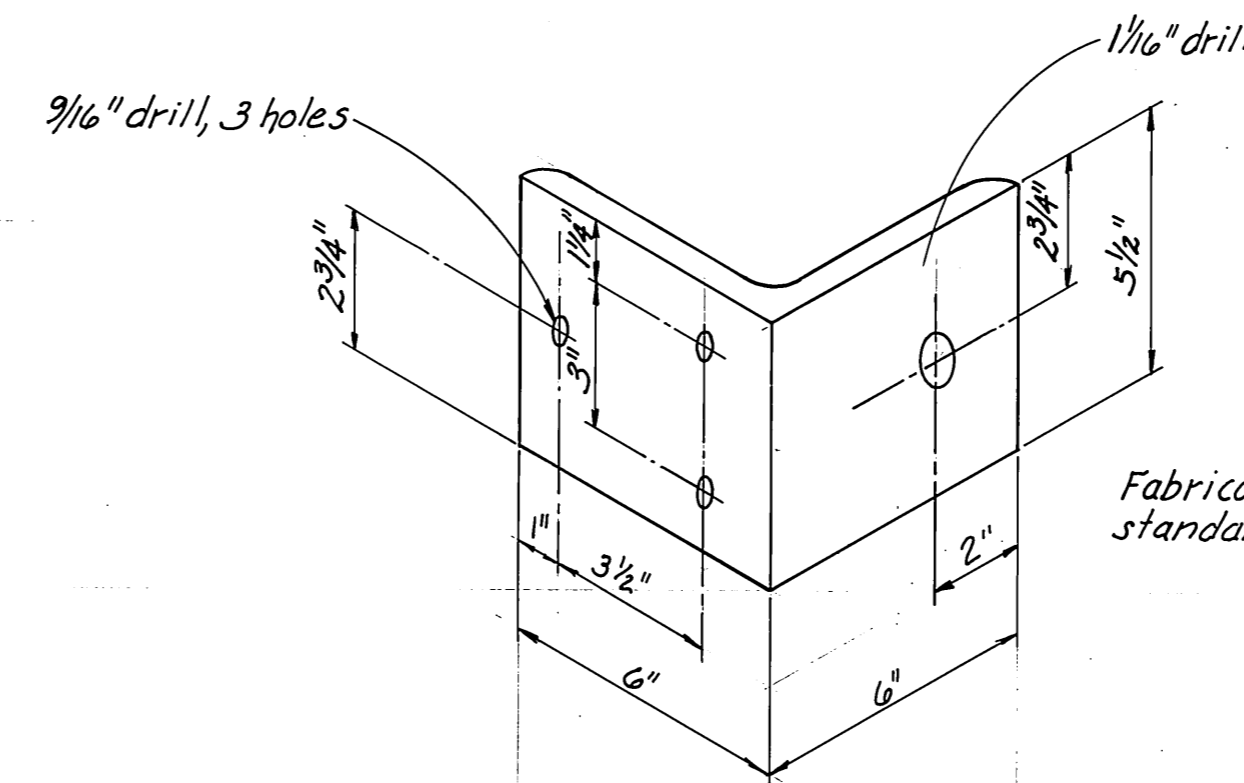
PLAN

10' FLOAT - RIGHT ANGLE CONNECTION  
1" = 1'-0"



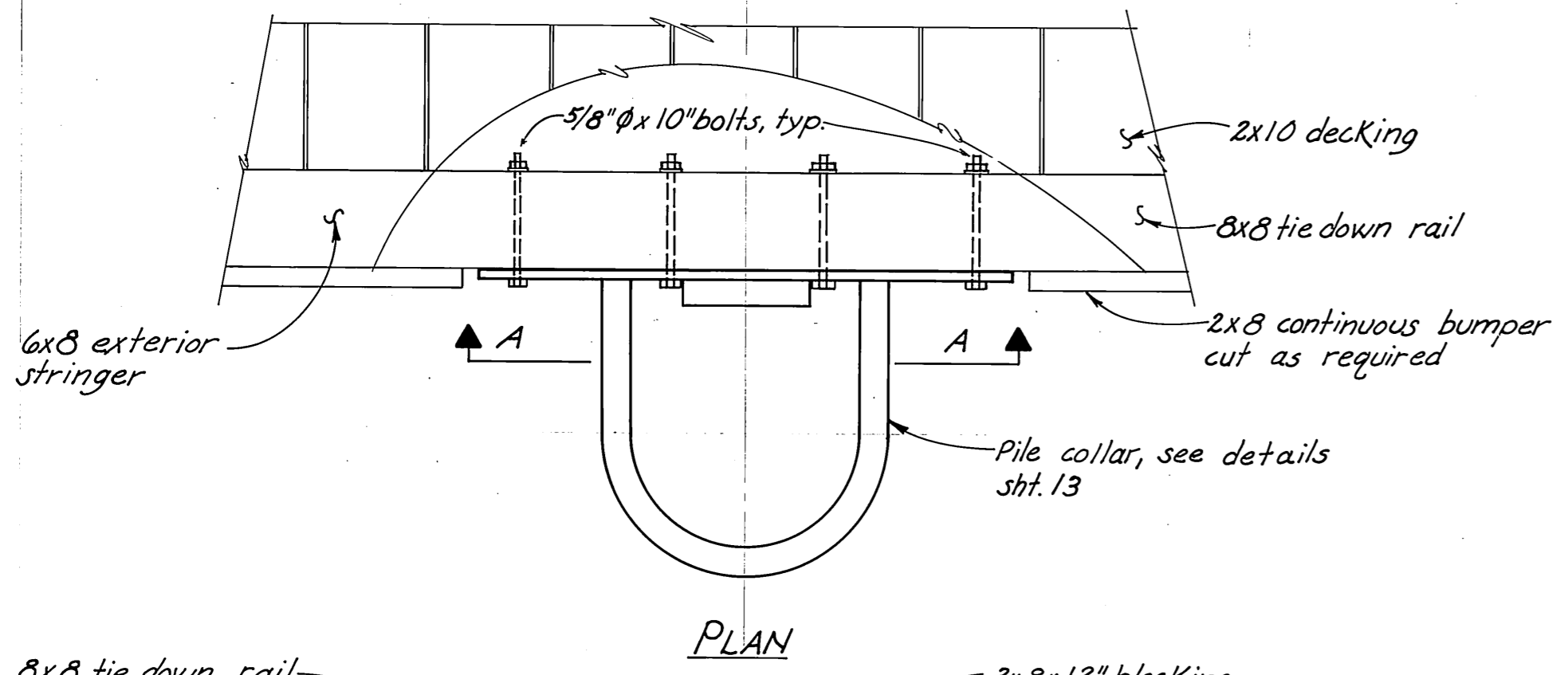
PLAN

10' FLOAT - CONTINUOUS CONNECTION  
1" = 1'-0"



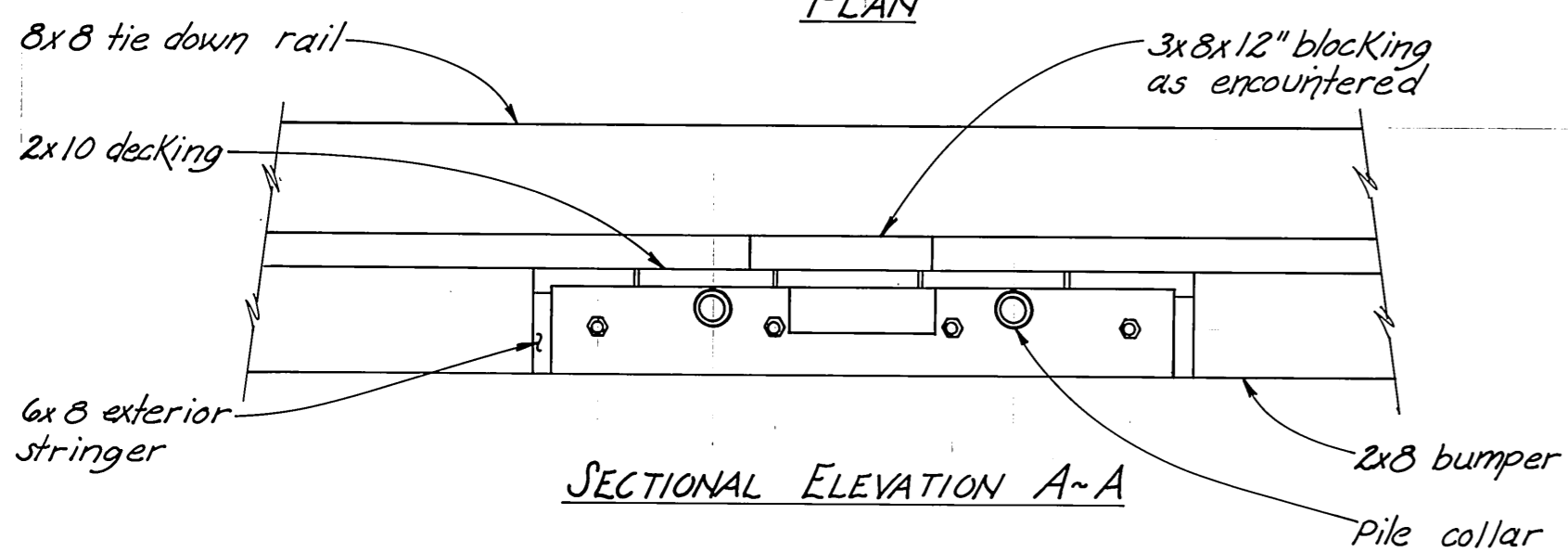
Fabricate from 5/8" x 6" standard equal leg angle.

ANGLE CLIP (RIGHT ANGLE CONN.)  
3" = 1'-0"

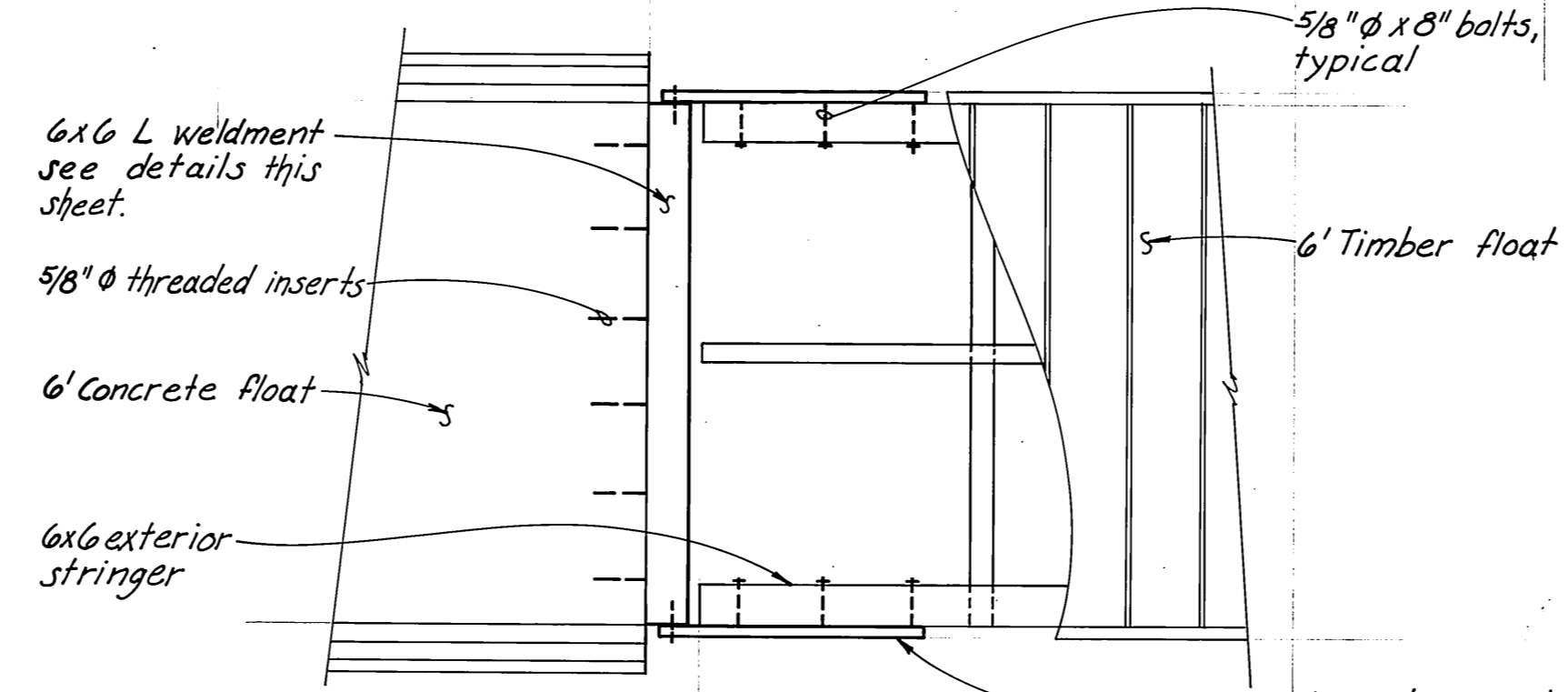


PLAN

EXTERIOR PILE COLLAR DETAILS  
1" = 1'-0"



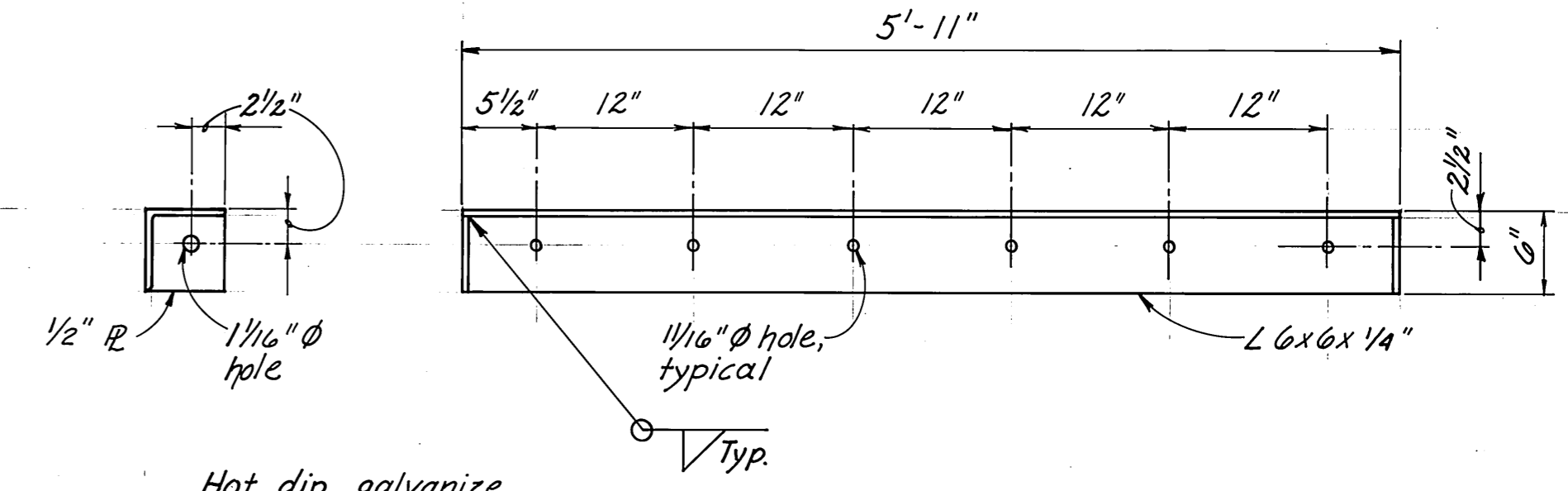
SECTIONAL ELEVATION A-A



PLAN

ELEVATION

6' TIMBER TO 6' CONCRETE FLOAT CONNECTION  
1/2" = 1'-0"



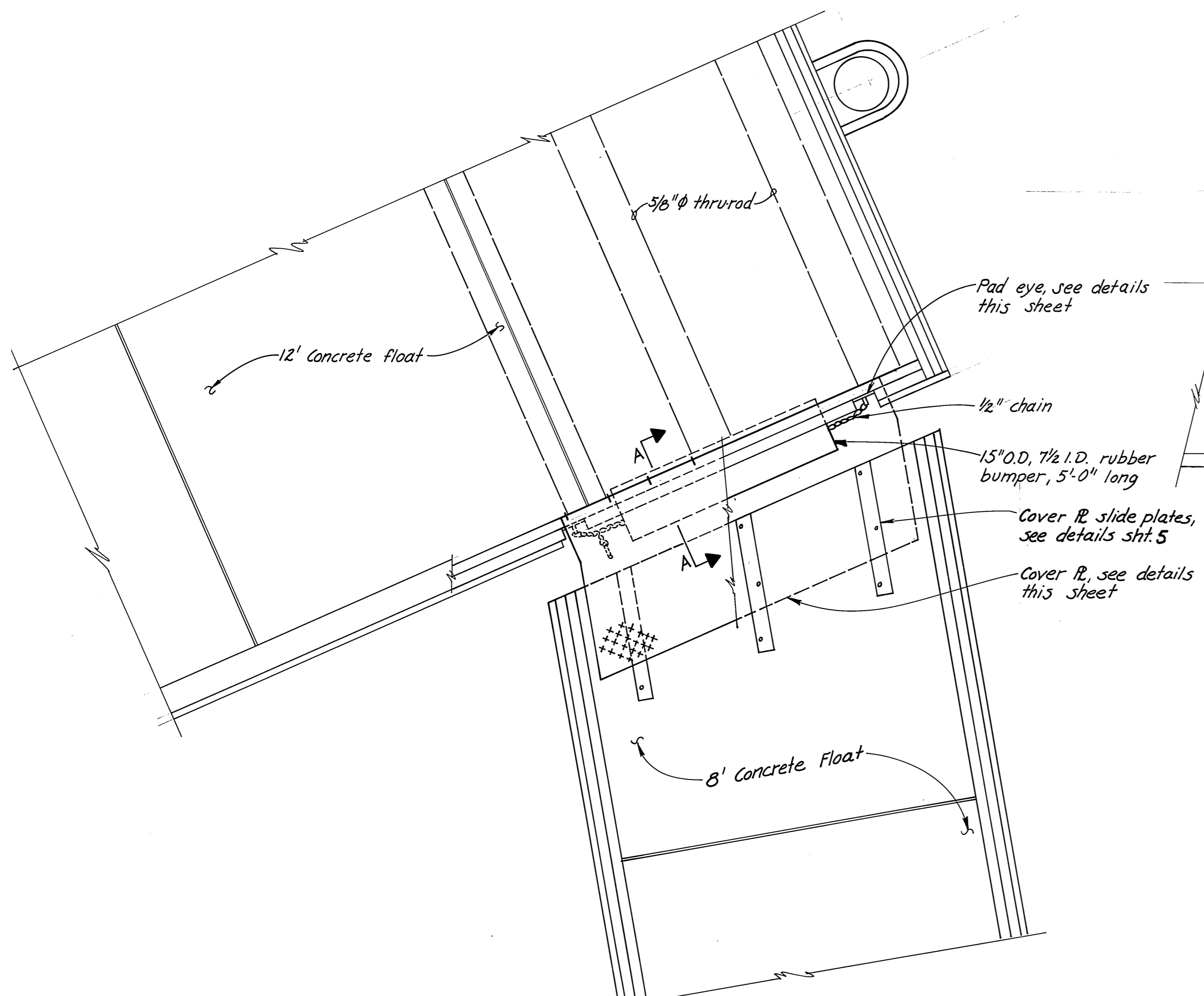
6x6 L WELDMENT  
1" = 1'-0"

Note: 1 req'd. for 6' Timber Float to 6' Conc. Float Only

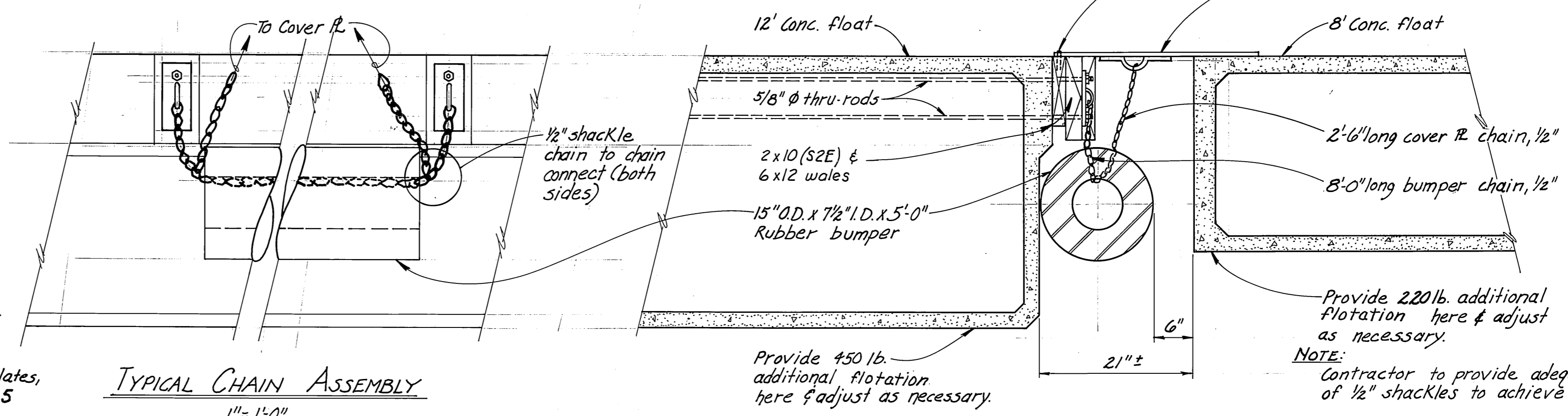
AS-BUILT  
3-9-81  
Division of Harbor Design and Construction



STAMP			DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			ALASKA		
SKAGWAY			10' TIMBER FLOAT CONNECTION & MISCELLANEOUS DETAILS		
SCALE AS NOTED	SURVEYED	APPROVED			
DESIGNED JAL	DRAWN SJS	Harold R. Mooser Chief of Design			
CHECKED	DATE 6-1-79				
PROJECT NUMBER K78147	SHEET 14 OF 28				



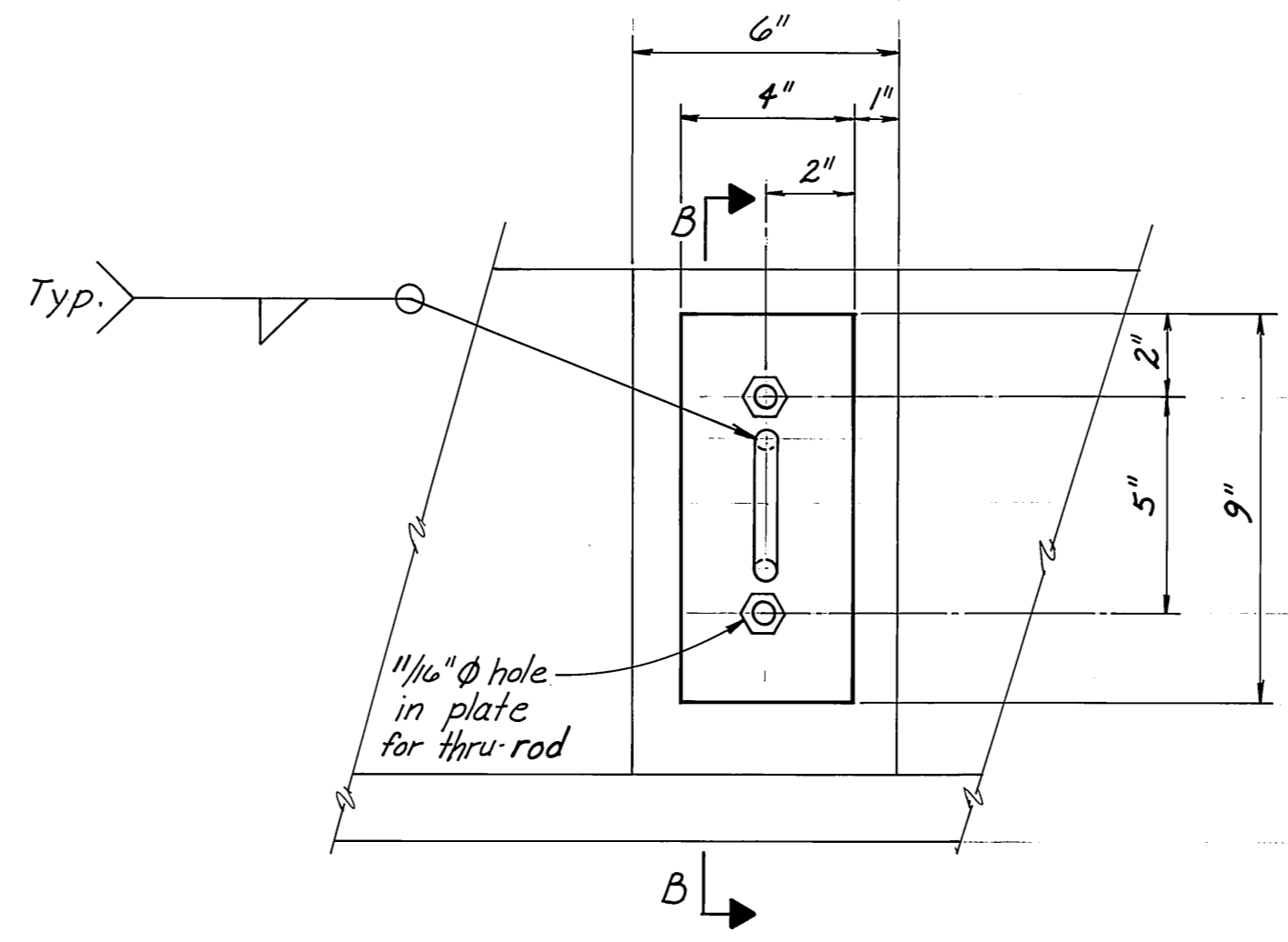
**FLOAT TRANSITION ~ PLAN**  
(8' Float → 12' Float)  
1/2" = 1'-0"



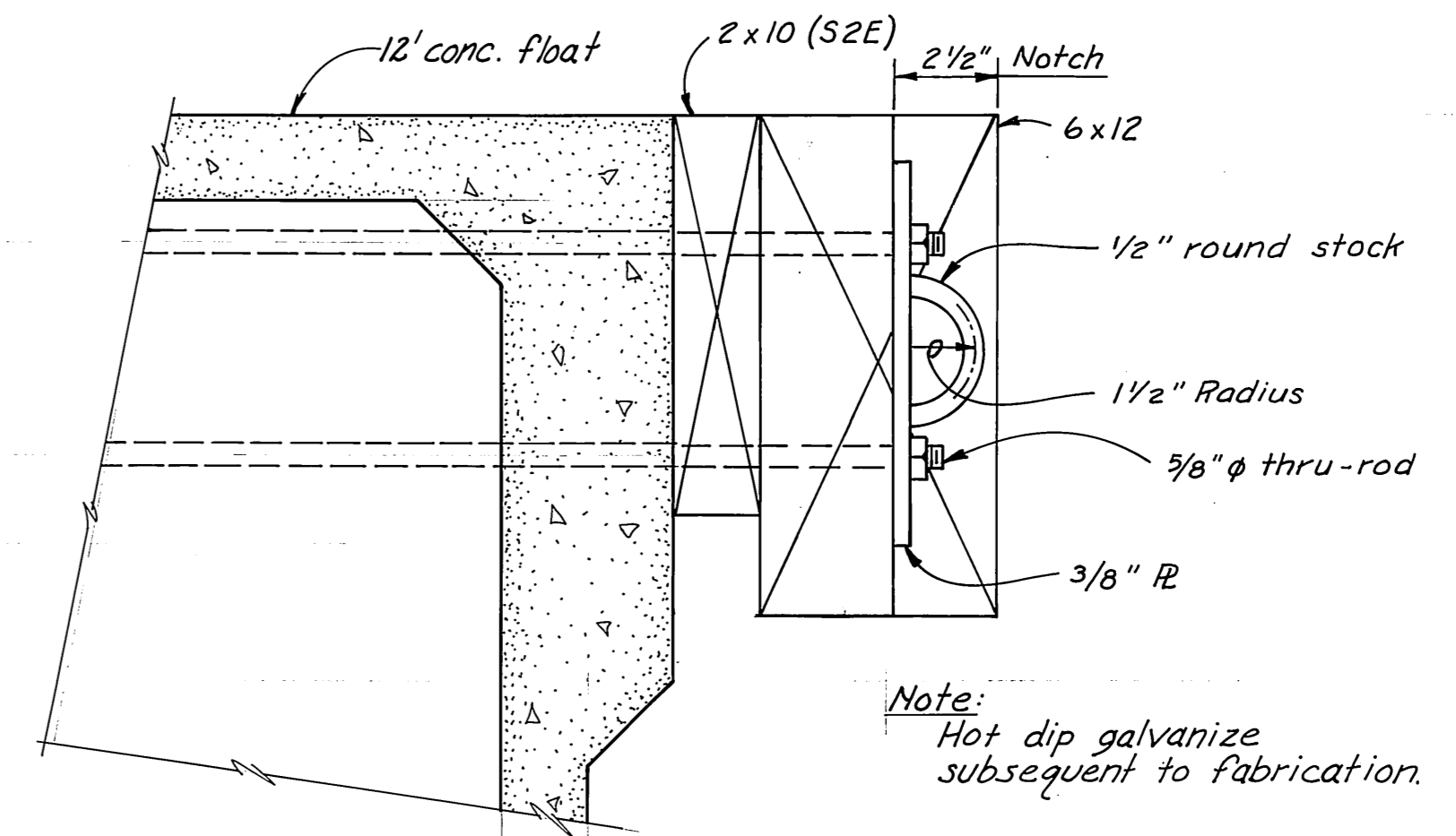
**TYPICAL CHAIN ASSEMBLY**  
1" = 1'-0"

**NOTE:**  
Additional flotation to be high density (1.3 lb./ft<sup>3</sup>), low water absorption as per specification for timber float construction.

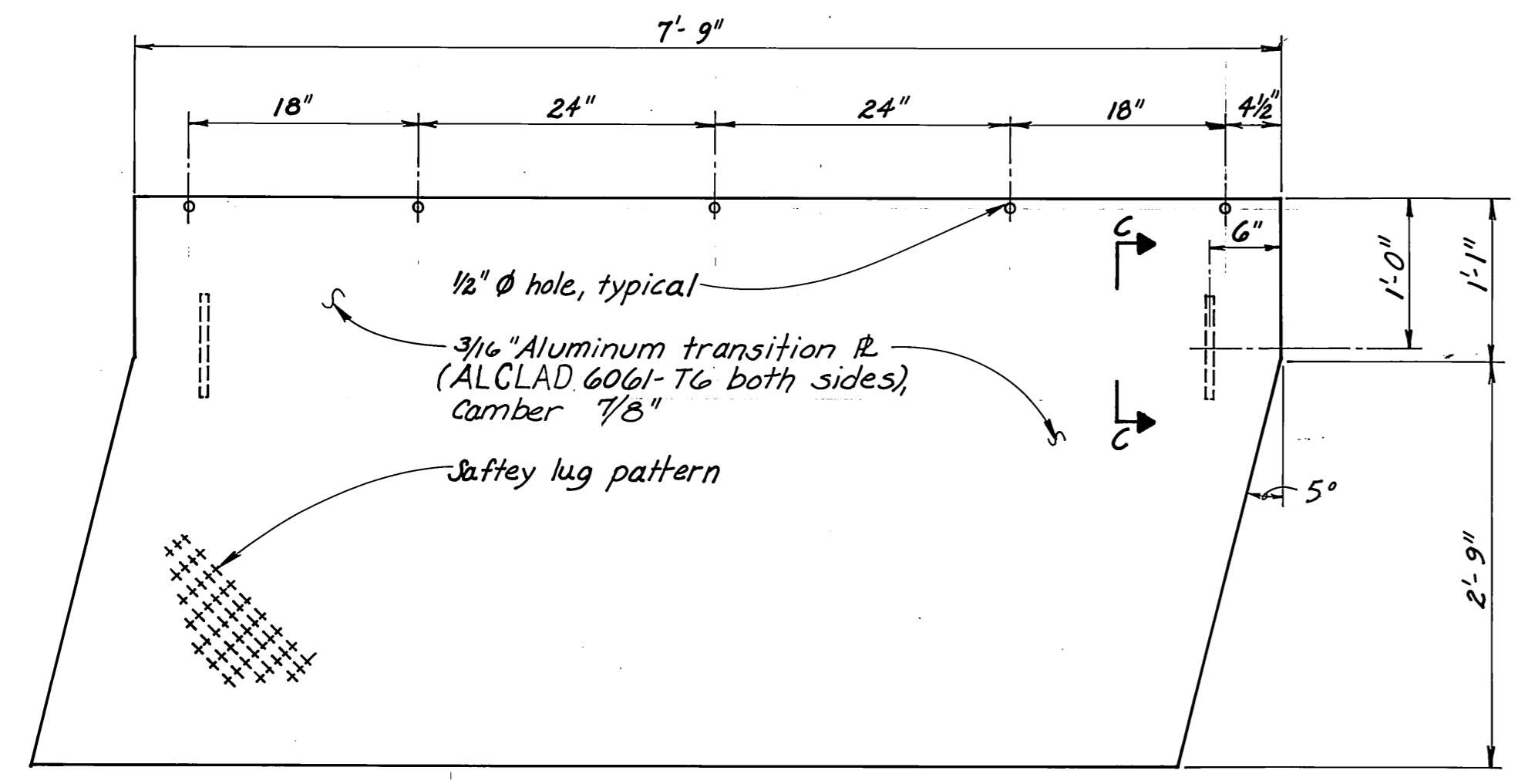
**SECTIONAL ELEVATION A~A**  
1" = 1'-0"



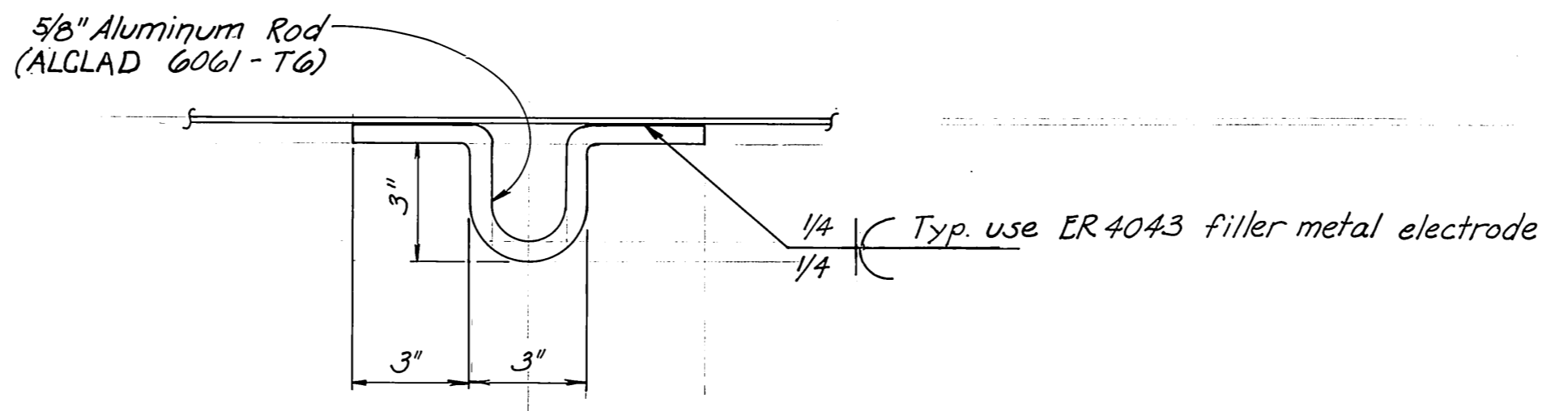
**ELEVATION**  
**DETAIL ~ PAD EYE**  
3" = 1'-0"



**SECTIONAL ELEVATION B~B**



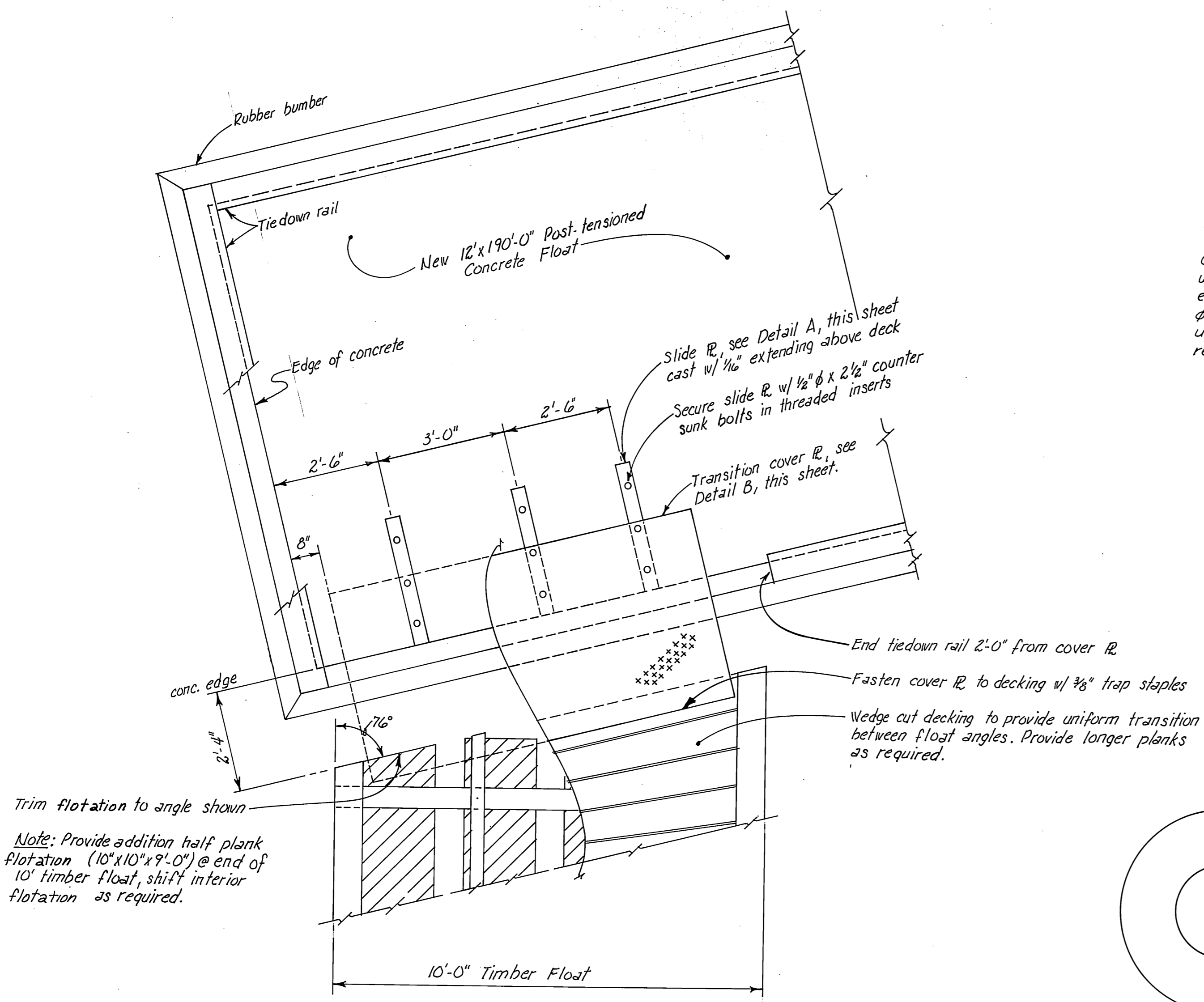
**TRANSITION COVER PLATE**  
1" = 1'-0"



**SECTIONAL ELEVATION C~C**  
3" = 1'-0"

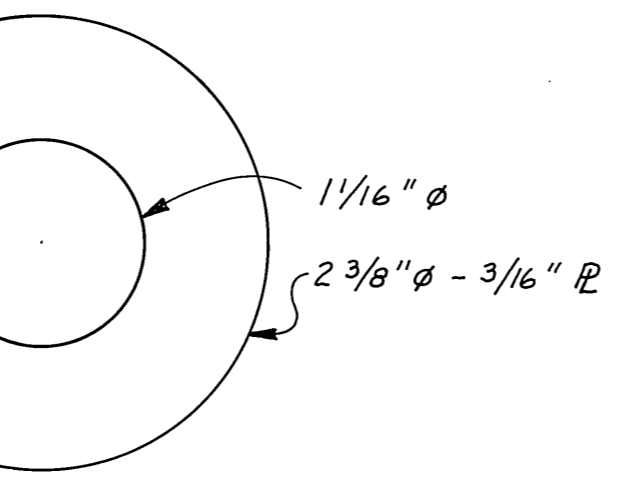
**AS BUILT**  
Date: 6-1-79  
Division of Harbor Design and Construction  
1500 Governor's Office

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		JKAGKAY ALASKA <b>8' CONCRETE TO 12' CONCRETE CONNECTION DETAILS</b>	
SCALE <i>As Noted</i>	SURVEYED	APPROVED	
DESIGNED <i>JAL</i>	DRAWN <i>JJS</i>	Chief of Design	
CHECKED	DATE <i>6-1-79</i>		
PROJECT NUMBER <i>K78147</i>	SHEET <i>15</i> OF <i>28</i>		

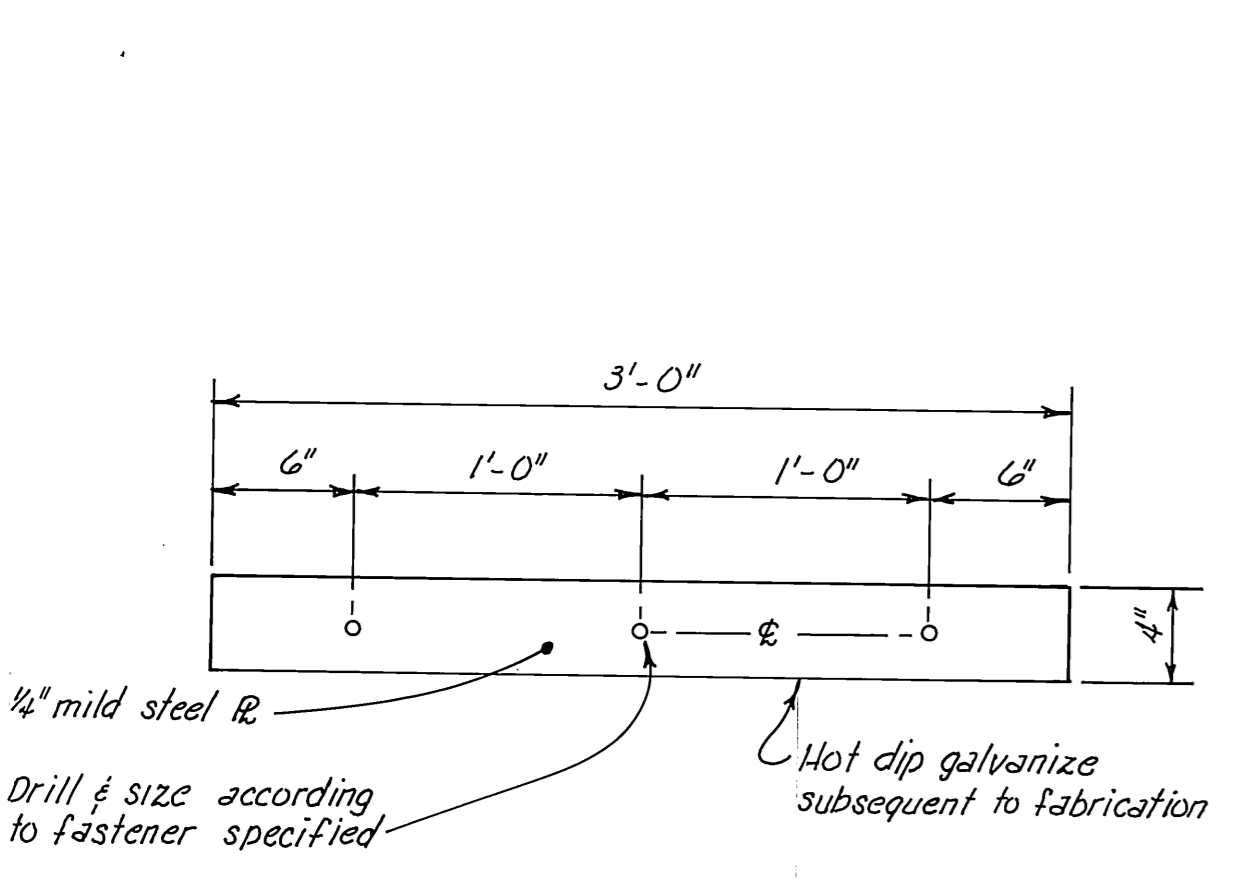


**PLAN - FLOAT TRANSITION**  
10' TIMBER FLOAT to 12' CONC. FLOAT  
1/2" = 1'-0"

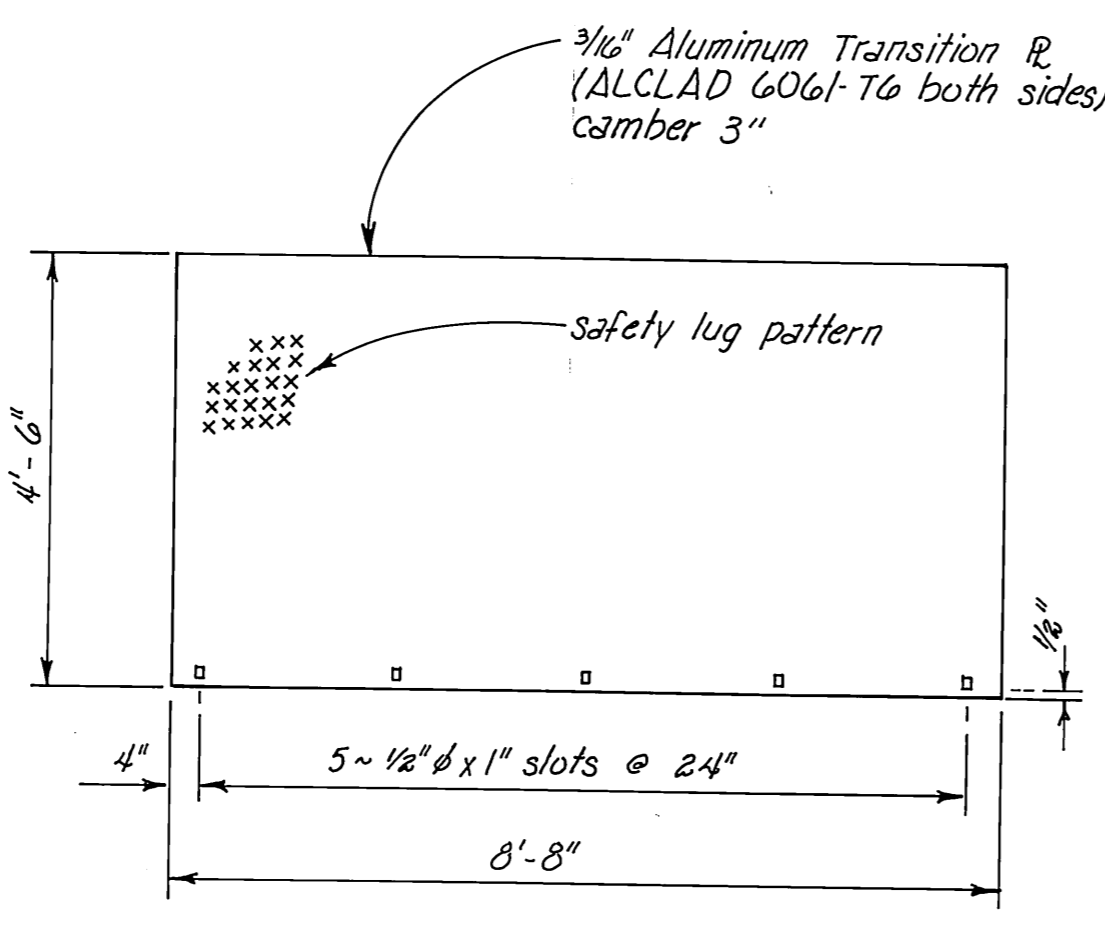
Note: Provide addition half plank flotation (10" x 10" x 9'-0") @ end of 10' timber float, shift interior flotation as required.



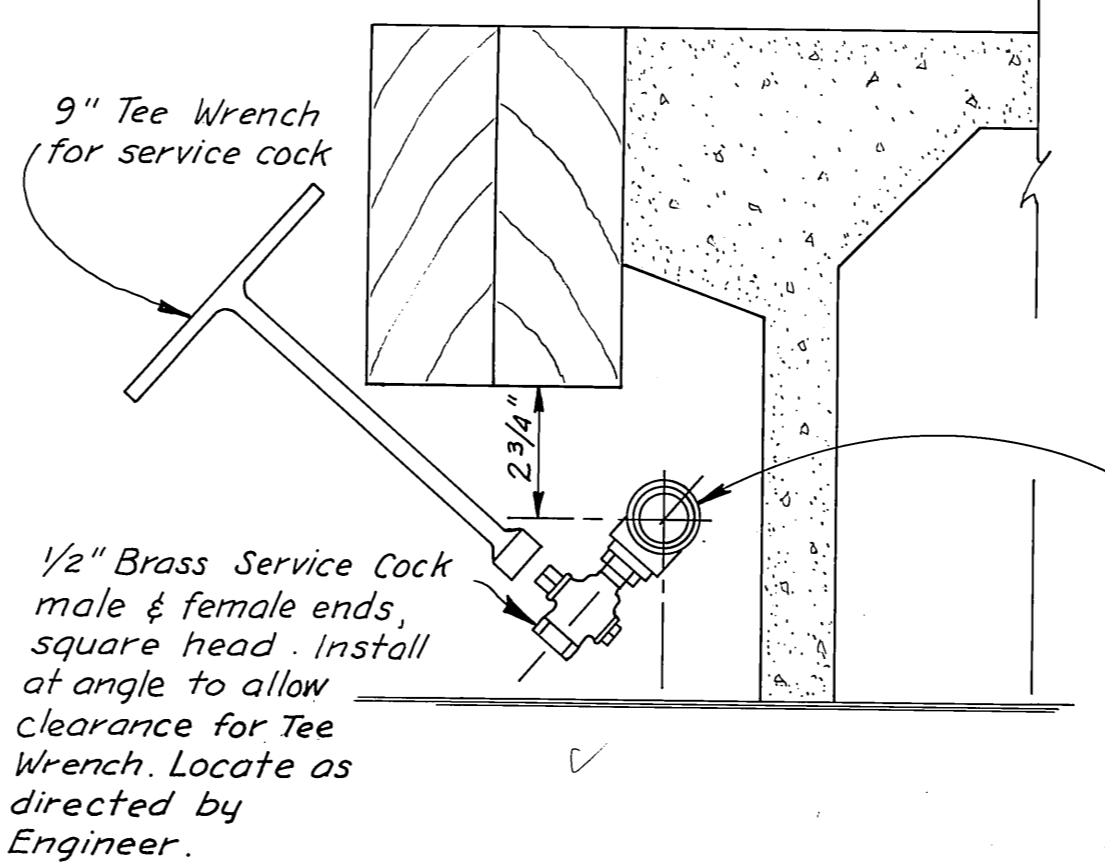
**GALV. PIPE CAP**  
Full size



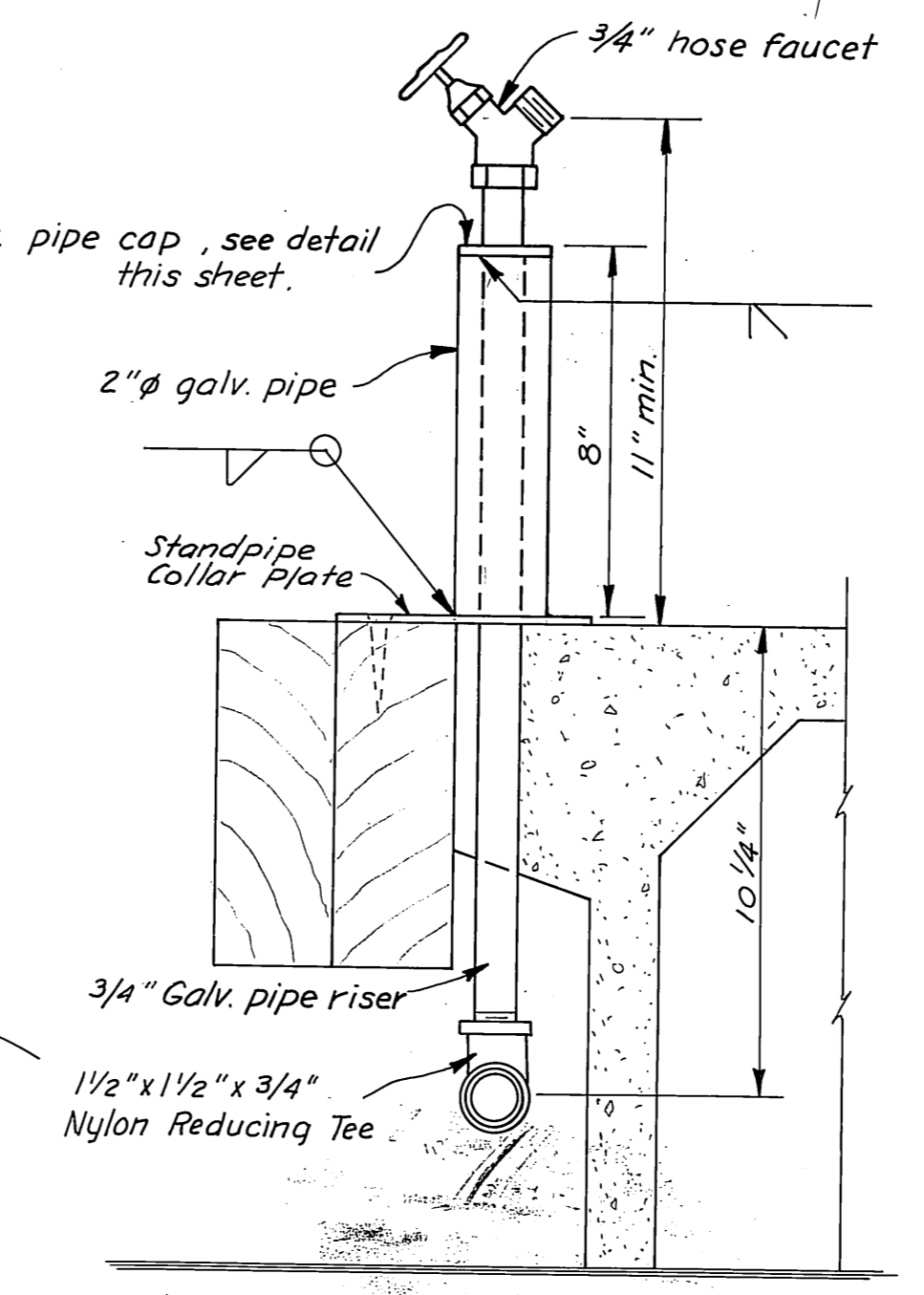
**SLIDE PLATE**  
DETAIL A  
1 1/2" = 1'-0"



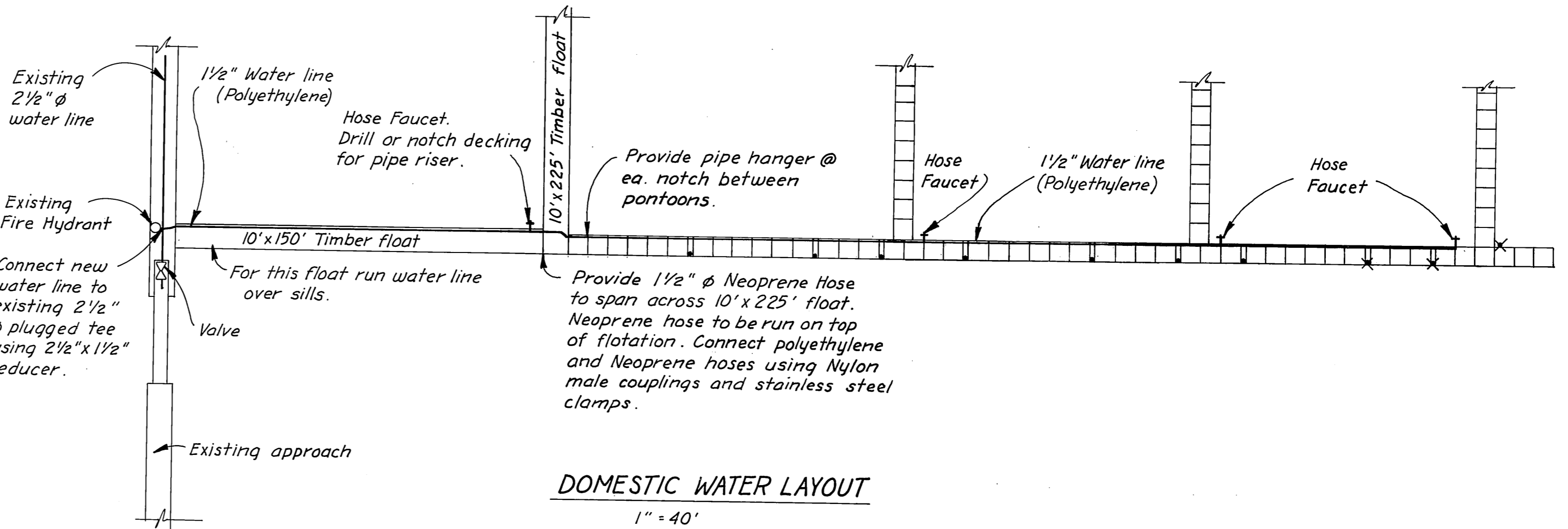
**TRANSITION COVER PLATE**  
DETAIL B  
1/2" = 1'-0"



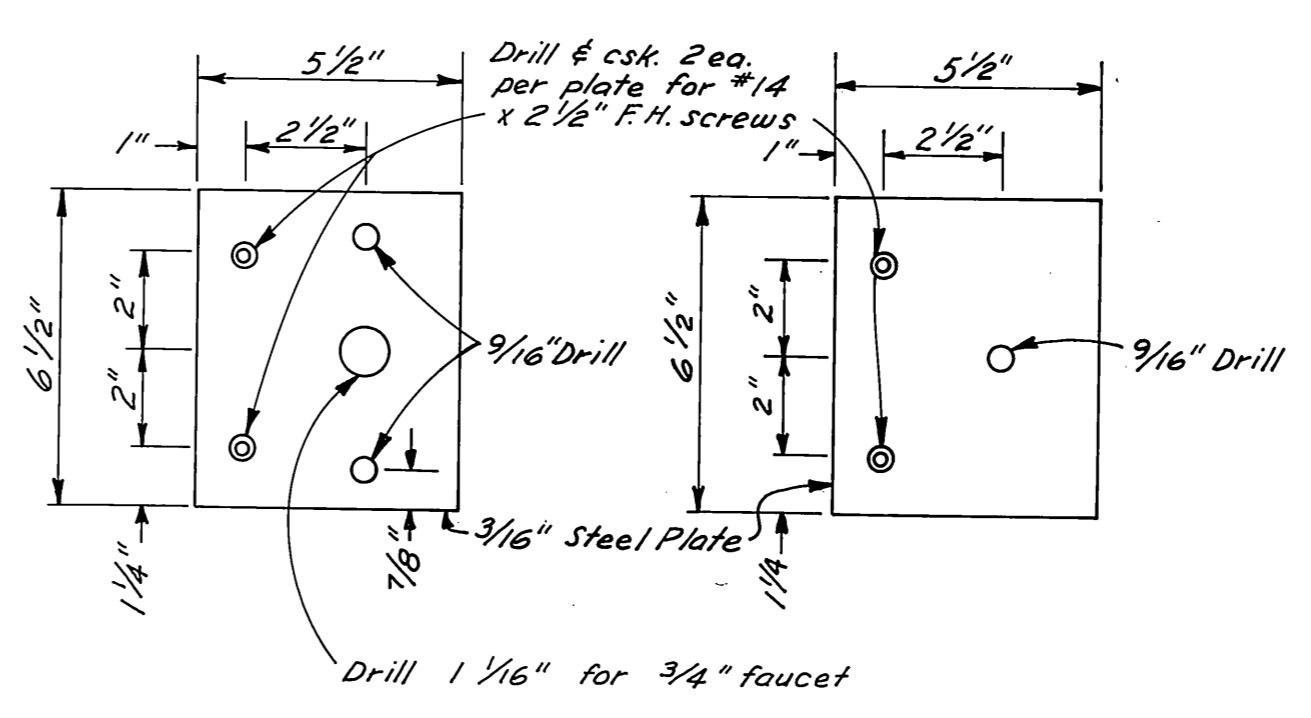
**DRAIN DETAIL**  
Scale 3" = 1'-0"



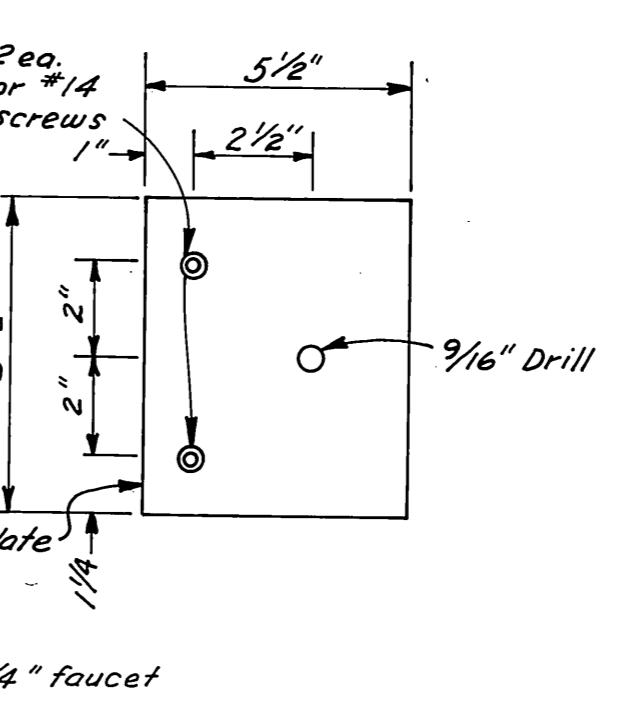
**FAUCET DETAIL**  
Scale 3" = 1'-0"



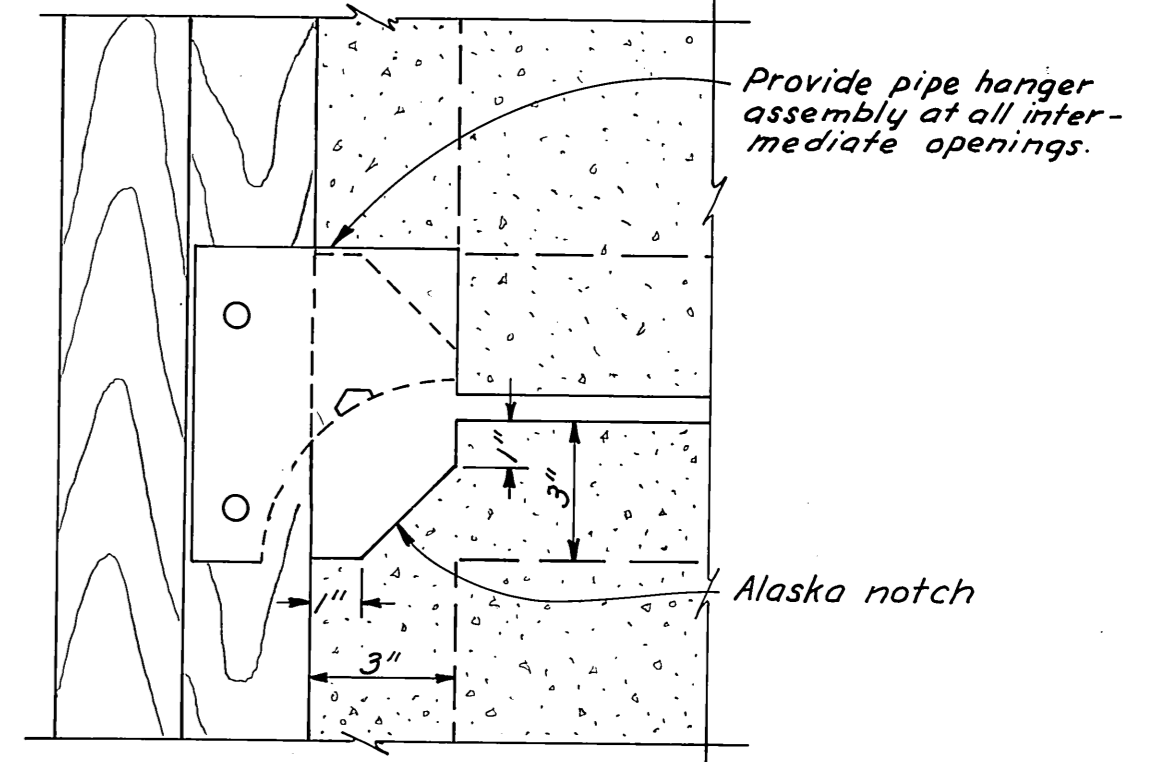
**DOMESTIC WATER LAYOUT**  
1" = 40'



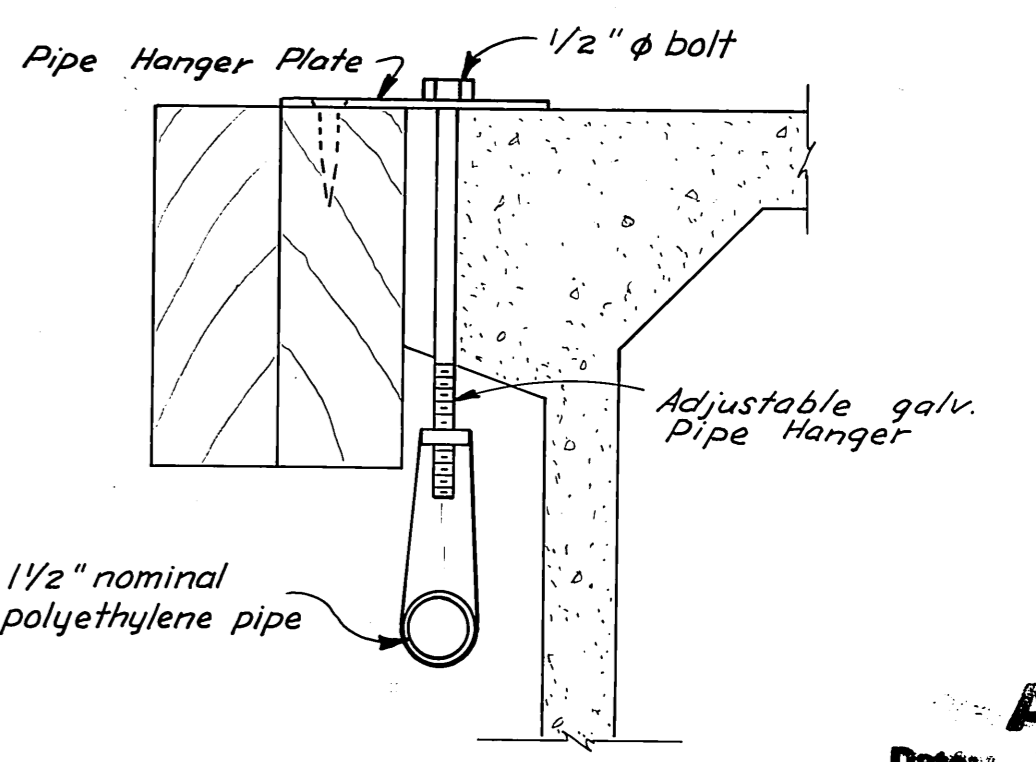
**STANDPIPE COLLAR PLATE**  
Scale 3" = 1'-0"



**PIPE HANGER PLATE**  
Scale 3" = 1'-0"



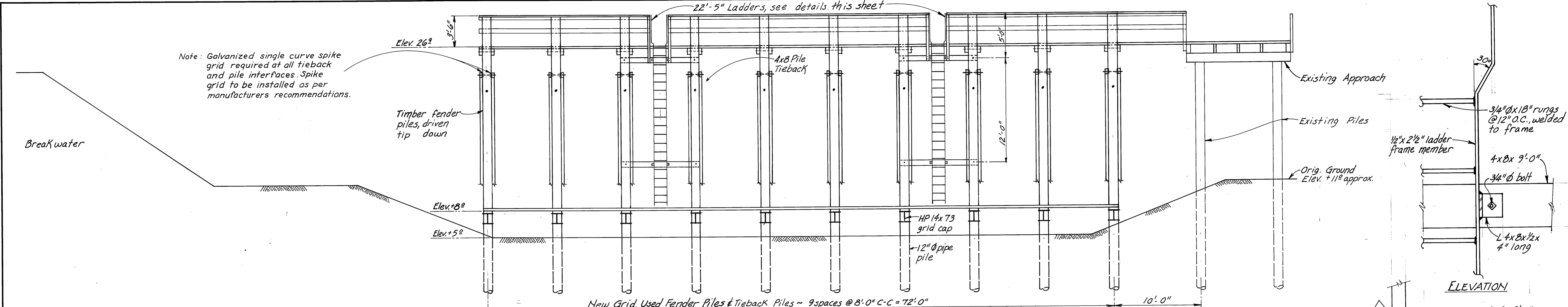
**TYPICAL FLOAT CORNER DETAIL**  
Scale 3" = 1'-0"



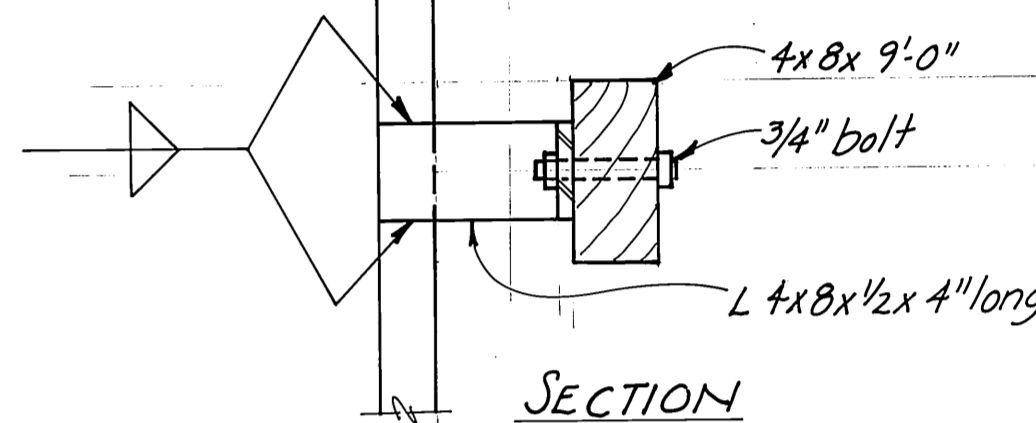
**PIPE HANGER ASSEMBLY**  
Scale 3" = 1'-0"

**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction

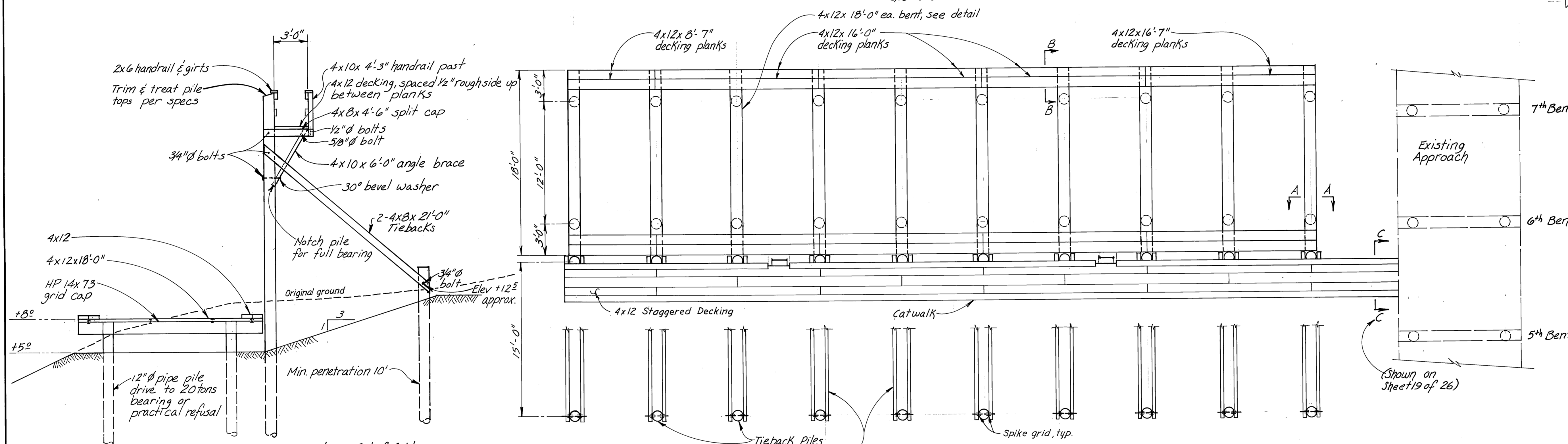
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Skagway Alaska	
<b>TRANSITION COVER PLATE DETAILS &amp; DOMESTIC WATER</b>			
SCALE: As Noted	SURVEYED: GRF	APPROVED: Robert P. Beck Chief of Design	
DESIGNED: JAL/JDB	DRAWN: GRF	DATE: 11-79	
CHECKED: RB/DW	DATE: 11-79	PROJECT NUMBER: K78147	
PROJECT NUMBER: K78147		SHEET 16 OF 28	



**ELEVATION**  
3/16" = 1'-0"

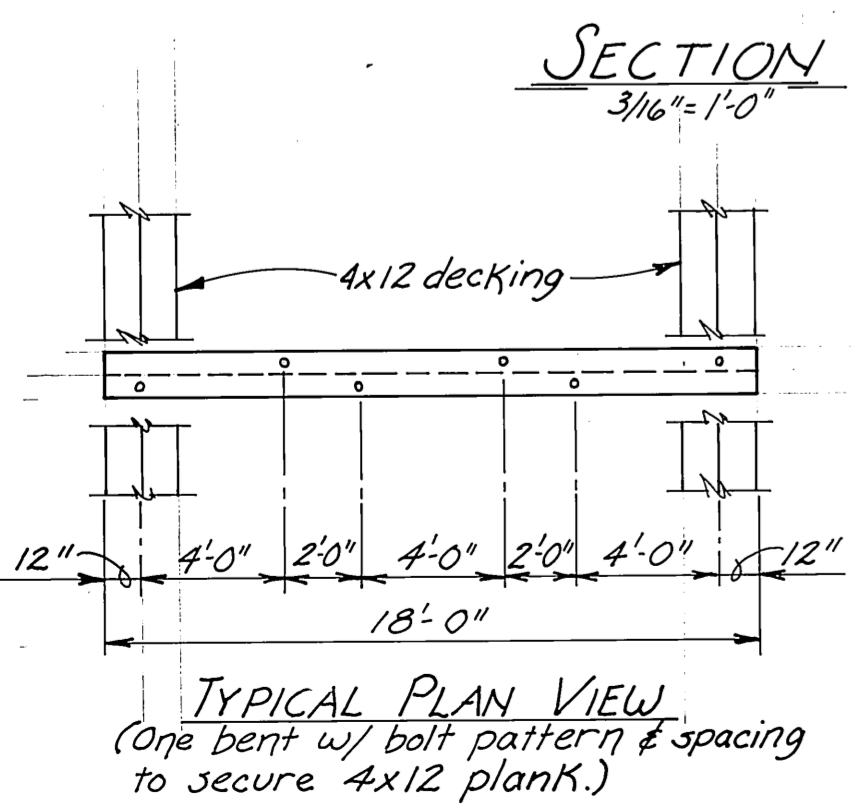


**LADDER DETAILS**  
1/2" = 1'-0"

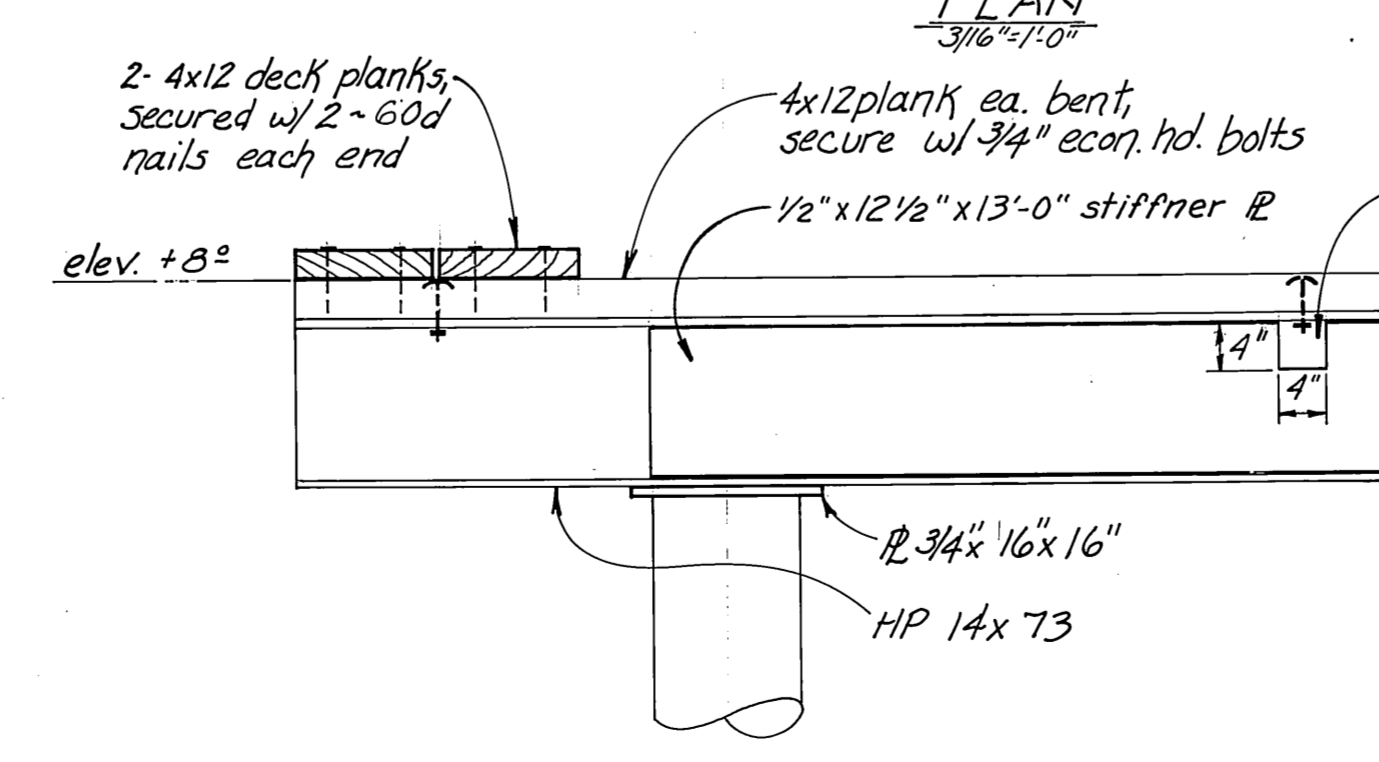
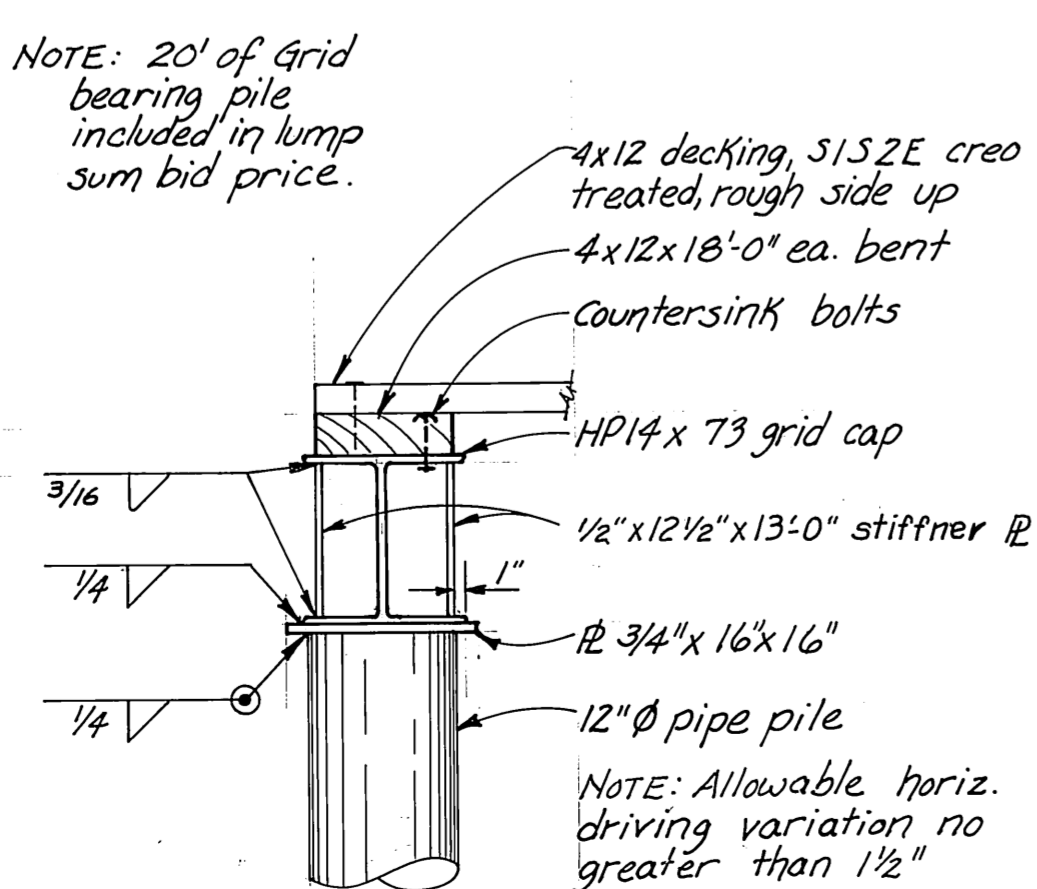


**PLAN**  
3/16" = 1'-0"

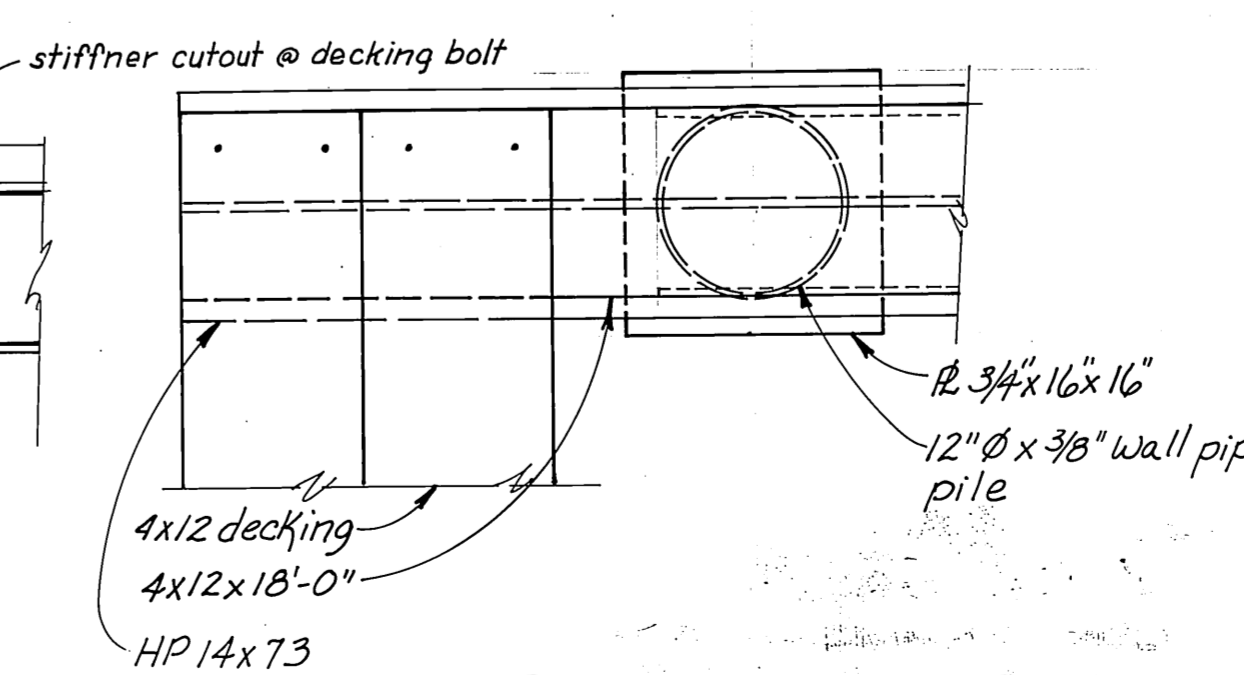
- NOTES**
- All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut and wood surfaces.
  - All bolts to be of the economy head type. Bolt holes to be drilled 1/16" oversize.
  - 4" decking to be secured with 2-60d nails each cap.
  - Handrails & girts to be secured to posts and piles with 2-20d nails and to each other with 16d nails @ 32" o.c.
  - All field cuts and holes in creosote material shall be treated with hot creosote oil before final assembly.
  - Penta treated material shall be treated with penta solution where field cut or drilled.
  - Drive fender piles to 15' penetration and tieback piles to 10' penetration or as directed by the engineer.
  - All material to be S4S except SISZE grid & catwalk decking.
  - All material to be crep treated except for catwalk handrail posts, handrail, girts, and decking, which shall be penta treated.



**SECTION**  
3/16" = 1'-0"

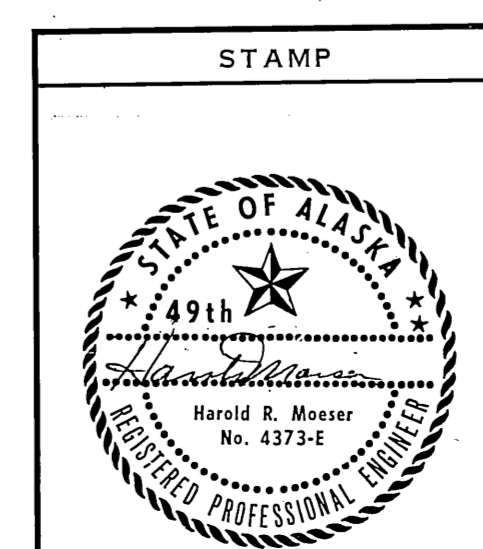


**SECTION B-B**  
3/4" = 1'-0"



**AS-BUILT**

Date: 3-9-81  
Division of Harbor Design and Construction



DO NOT SCALE THIS DRAWING - USE DIMENSIONS

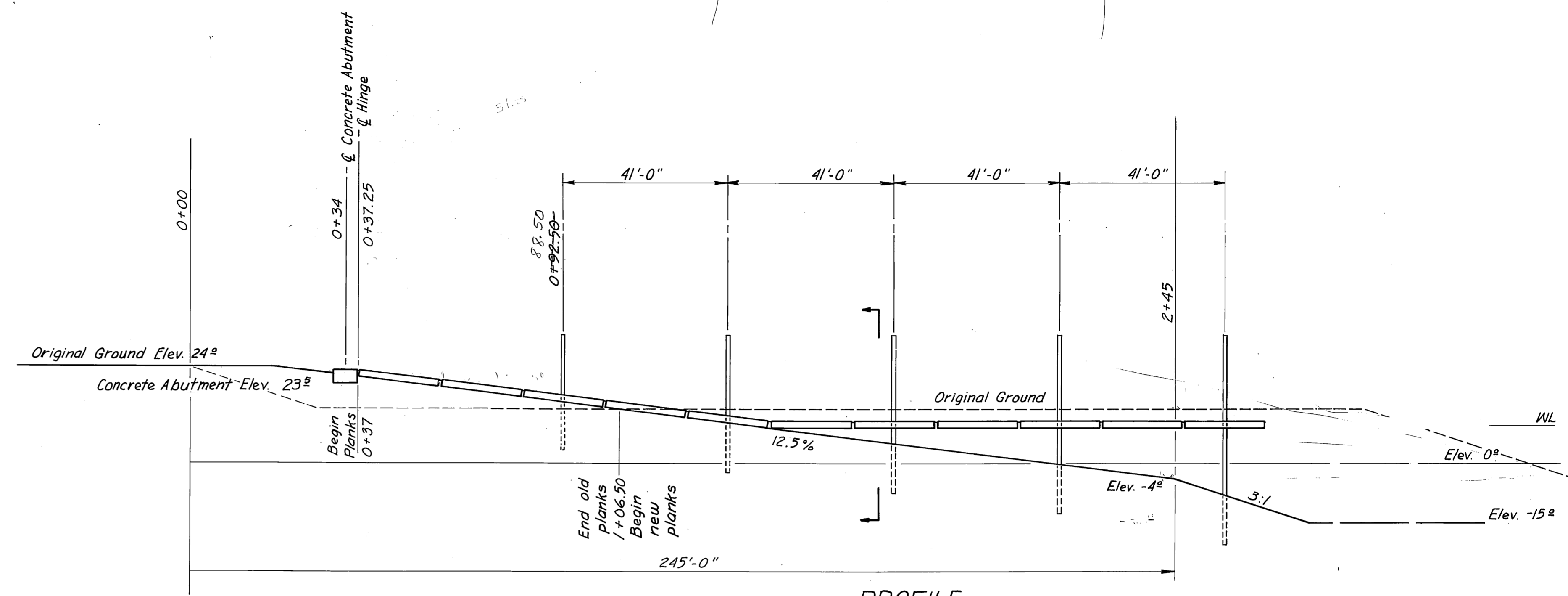
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

SKAGWAY ALASKA

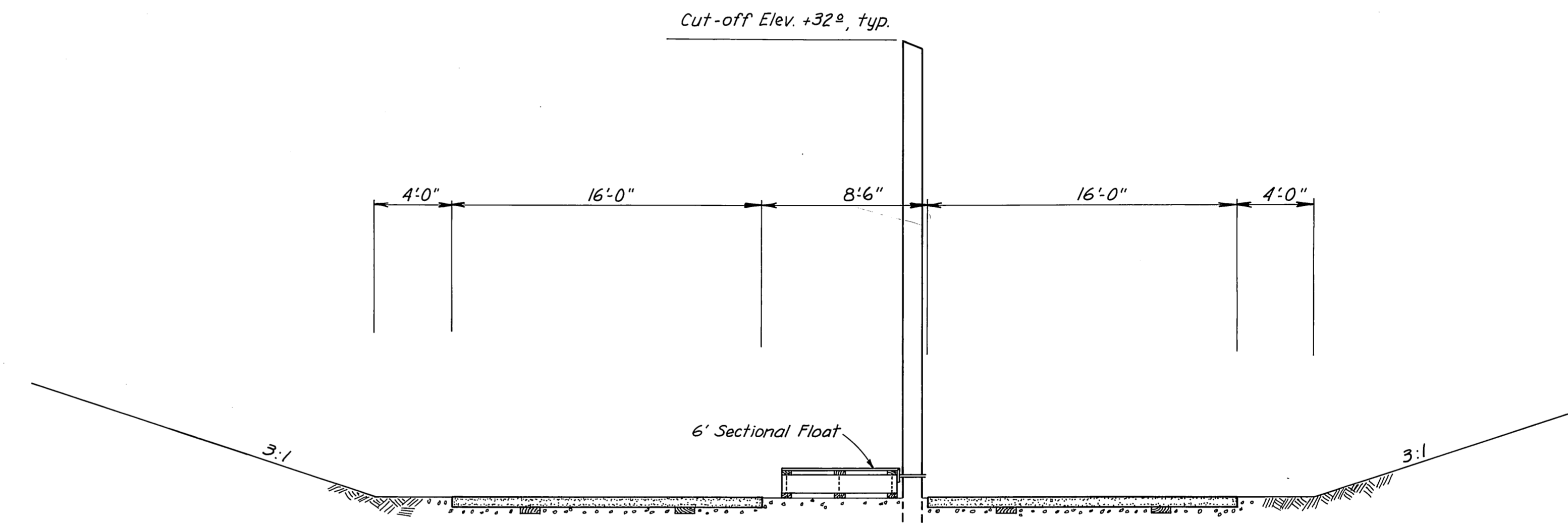
**GRID DETAILS**

SCALE NOTED	SURVEYED	APPROVED
DESIGNED JDB	DRAWN SJS	Robert P. Beck
CHECKED RB/DW	DATE Sept 1979	Chief of Design
PROJECT NUMBER K 78147		SHEET 17 OF 28

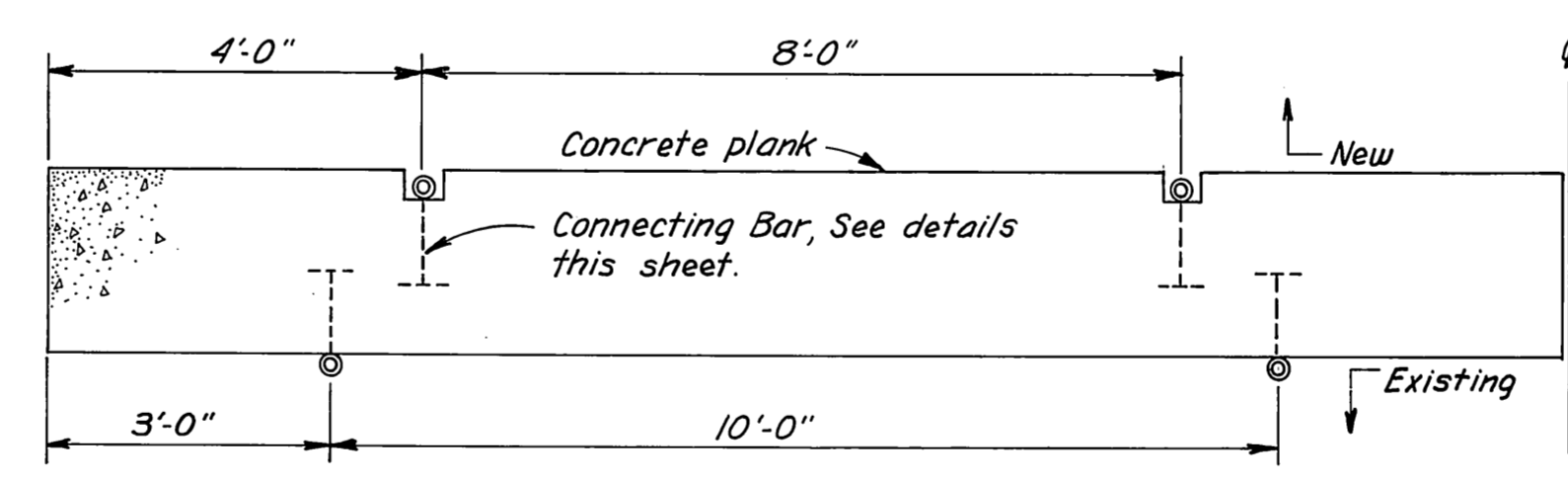
E. J. Apps



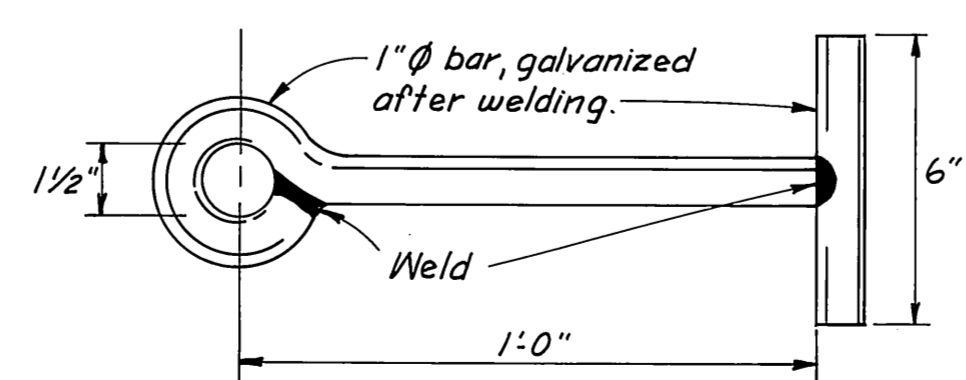
PROFILE  
Scale 1"=20'



TYPICAL RAMP CROSS SECTION  
STA. 1+50  
SCALE - 1"=25'



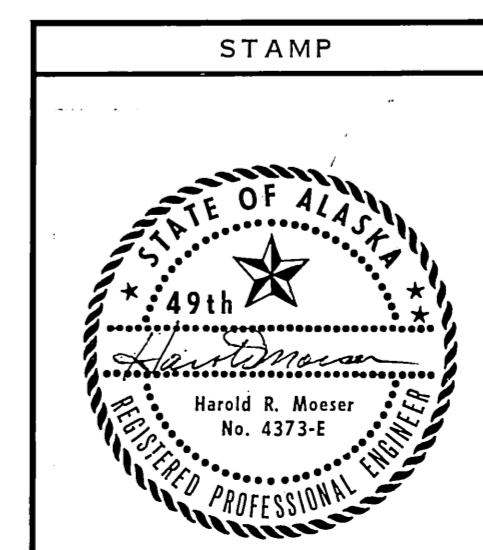
TRANSITION PLANK  
(2 req'd. - 1L & 1R)  
Scale 1/2"=1'-0"



TRANSITION CONNECTING BAR  
Scale 3"=1'-0"

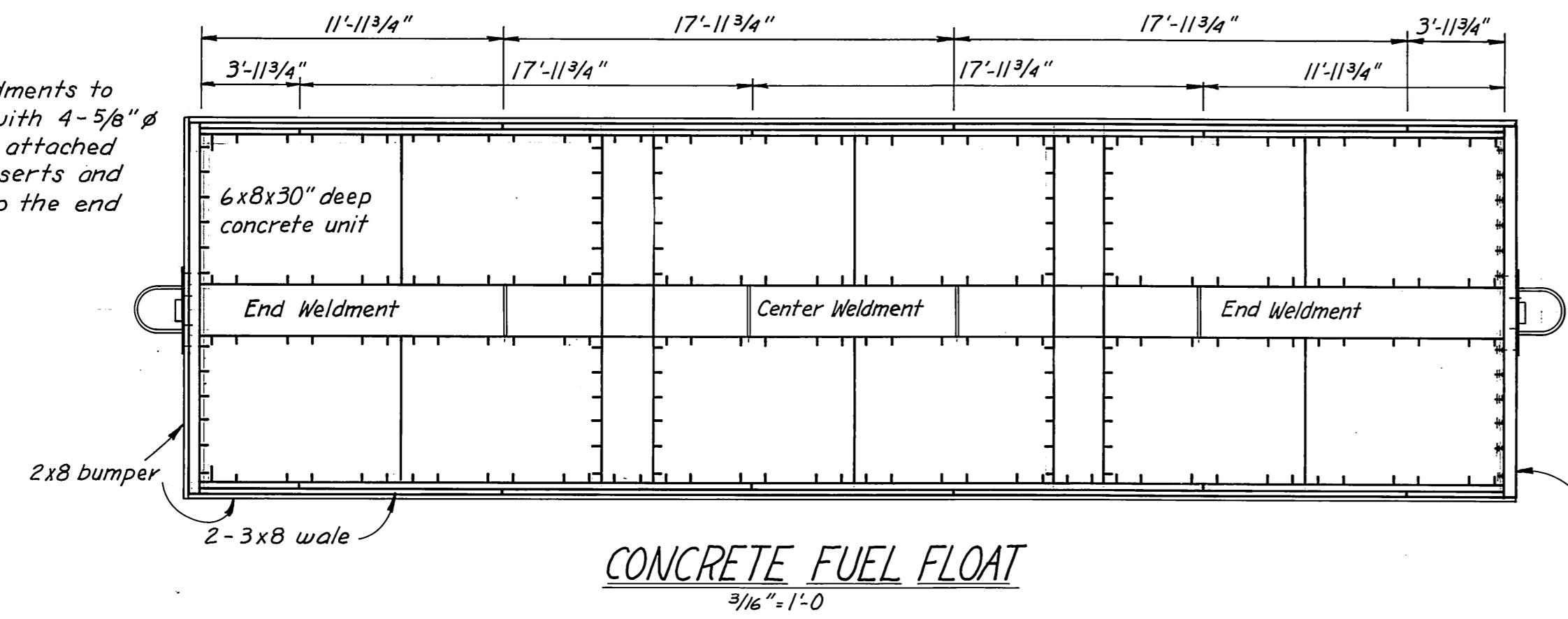
Note: 105 planks per lane. First 35 planks each lane to be salvaged from existing ramp. Change from relocated planks to be made with a transition plank, detail this sheet.

**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction

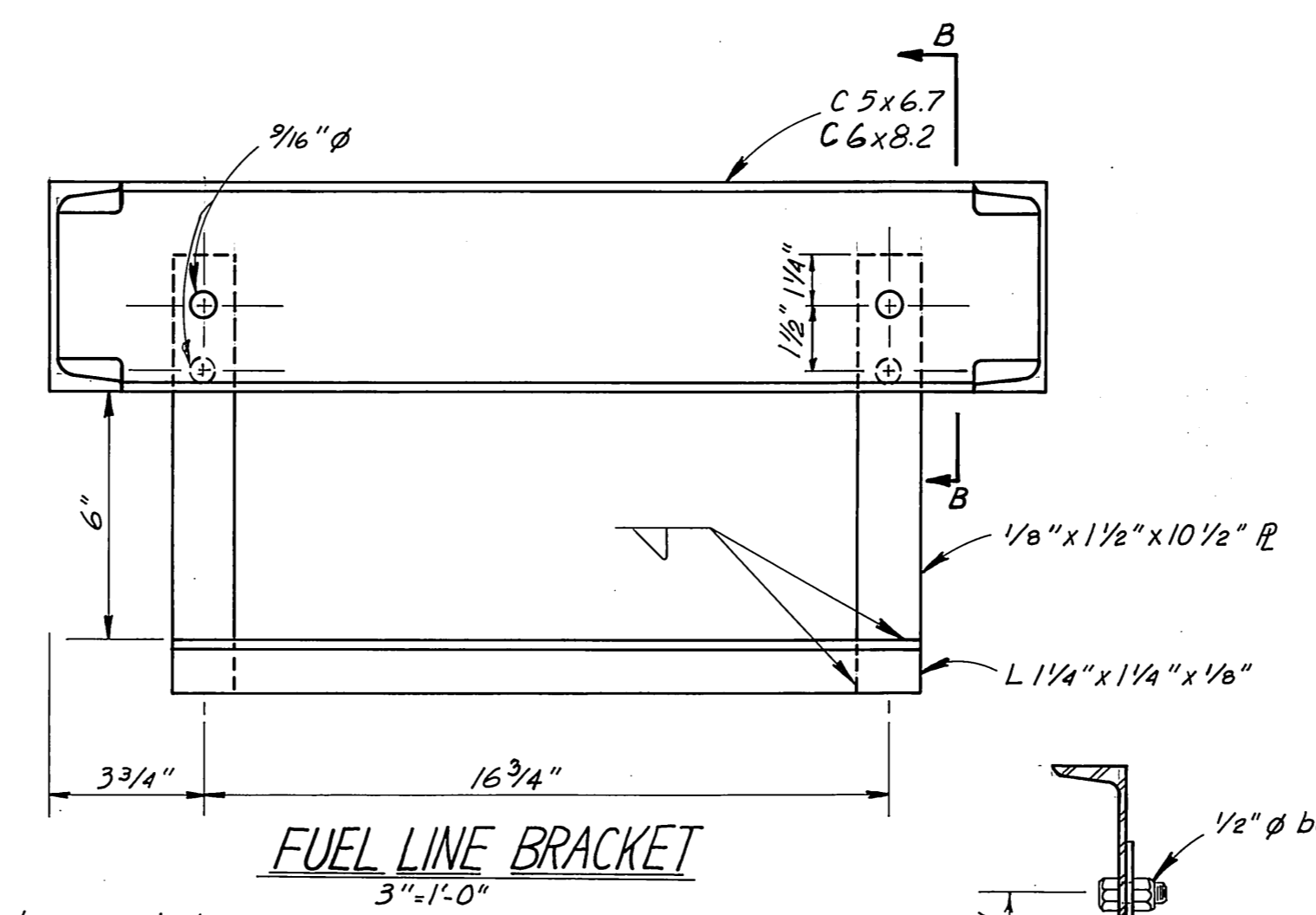


STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
<b>BOAT LAUNCHING RAMP</b>			
SCALE: AS NOTED	SURVEYED:	APPROVED	
DESIGNED: RB/DW	DRAWN: TS	<b>ROBERT P. BECK</b> CHIEF OF DESIGN	
CHECKED: RB/DW	DATE: Nov. 79		
PROJECT NUMBER: K 78147	SHEET 18 OF 28		

Note: Pile collar weldments to be attached with 4-5/8"  $\phi$  bolts. 2 bolts attached to threaded inserts and 2 attached to the end weldments.

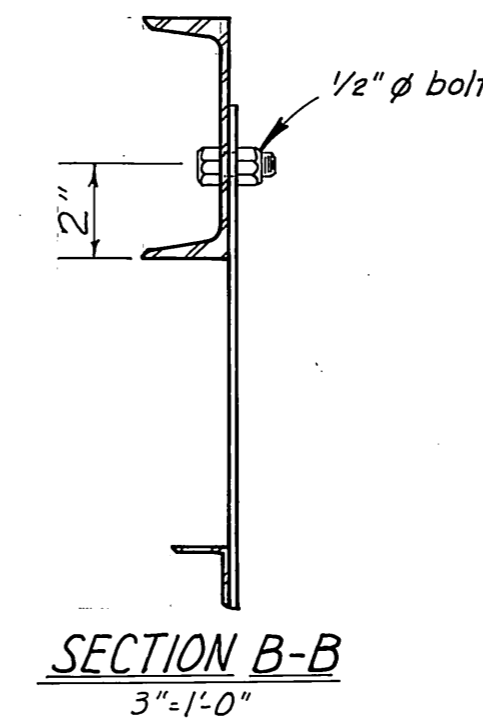


**CONCRETE FUEL FLOAT**  
3/16" = 1'-0"



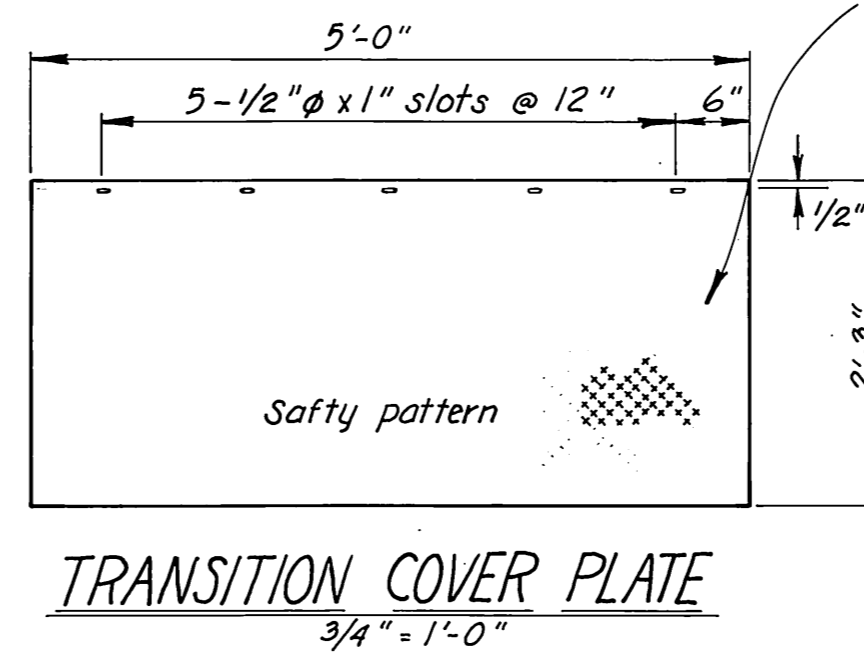
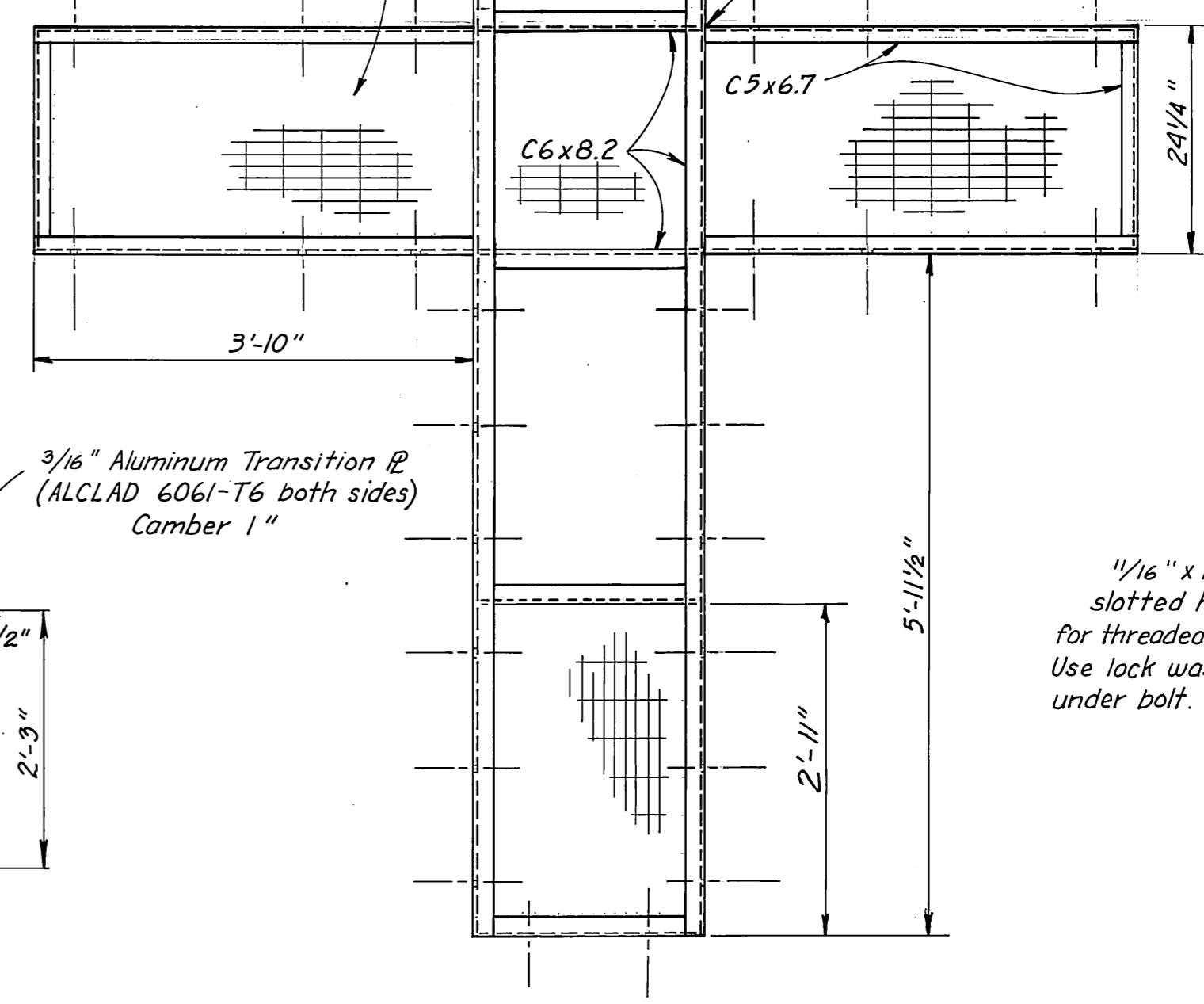
**FUEL LINE BRACKET**  
3" = 1'-0"

Note: Drill fuel line bracket holes in cross members and galvanize subsequent to fabrication. Provide 6 bracket weldments and attach where directed by the Engineer.



**SECTION B-B**  
3" = 1'-0"

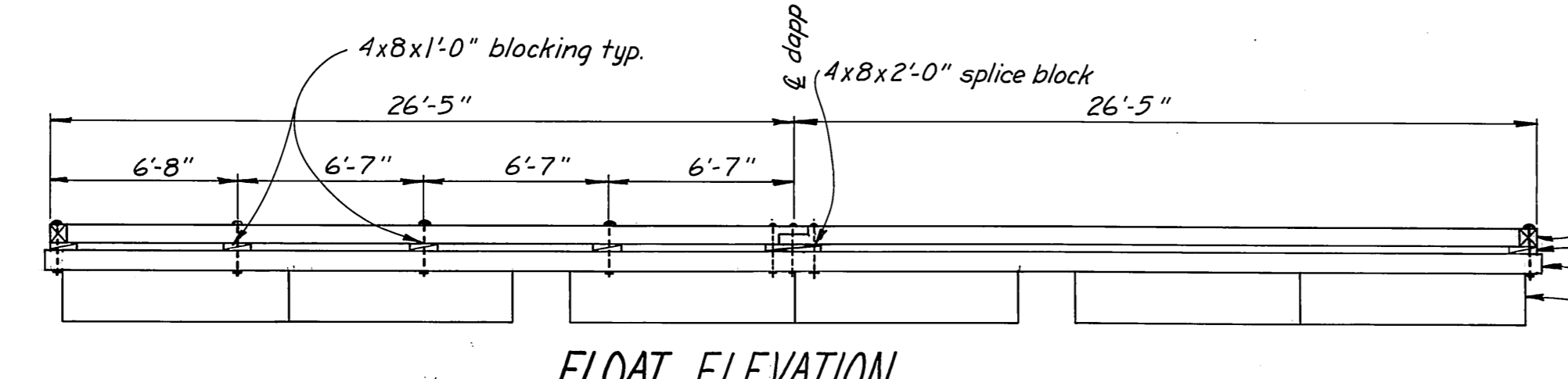
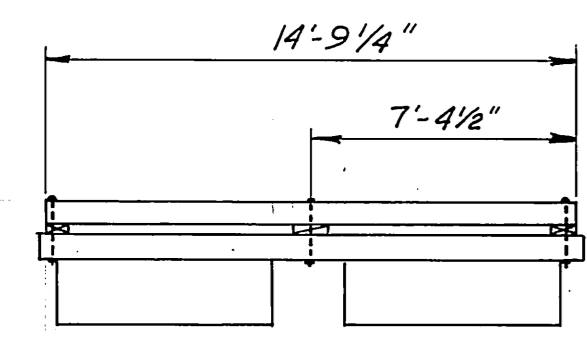
Welded serrated steel grating w/ 1" x 1/8" bearing bars @ 1 3/16" O.C. & 1/4" crossbars @ 4" O.C. Hot dip galvanize. Furnish Pressure Locked Clips Borden Type F-6 or equal.



**TRANSITION COVER PLATE**  
3/4" = 1'-0"

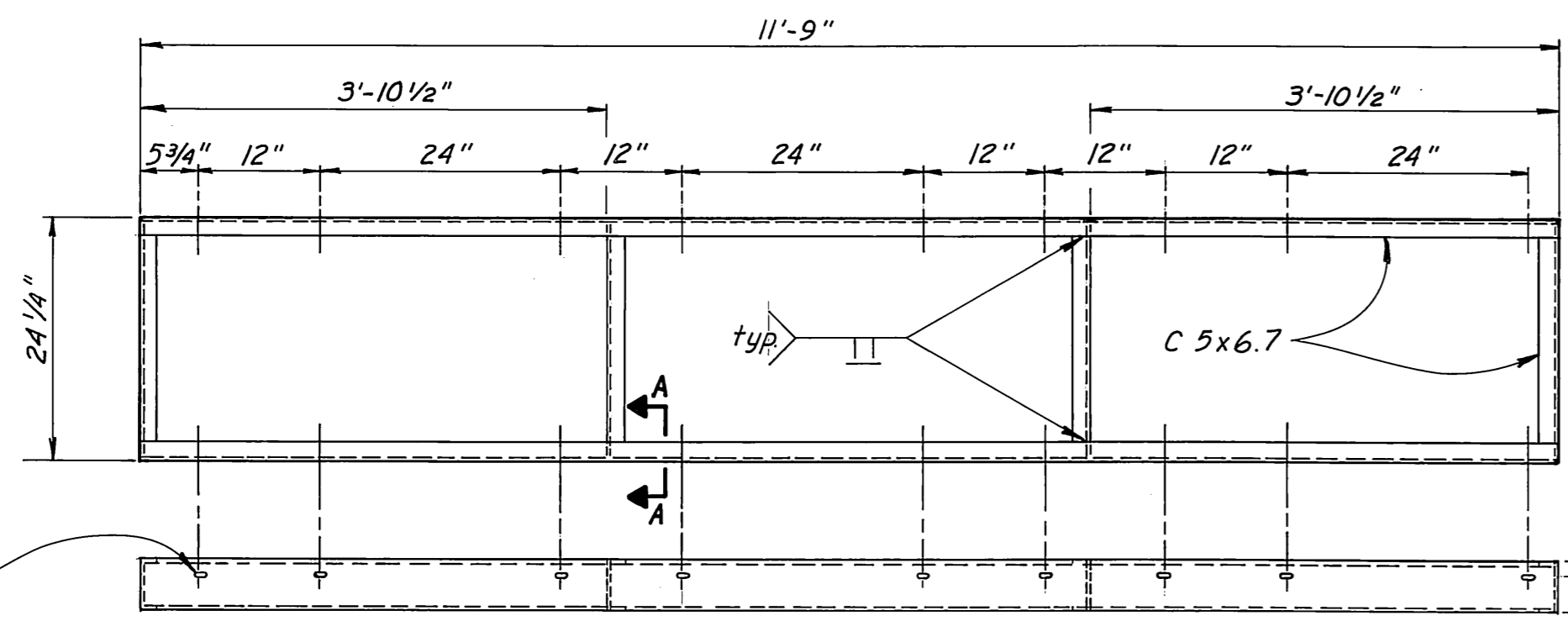
3/16" Aluminum Transition  $\mathcal{R}$  (ALCLAD 6061-T6 both sides) Camber 1"

1/16" x 1/4" slotted holes for threaded inserts. Use lock washers under bolt.



**FLOAT ELEVATION**  
3/16" = 1'-0"

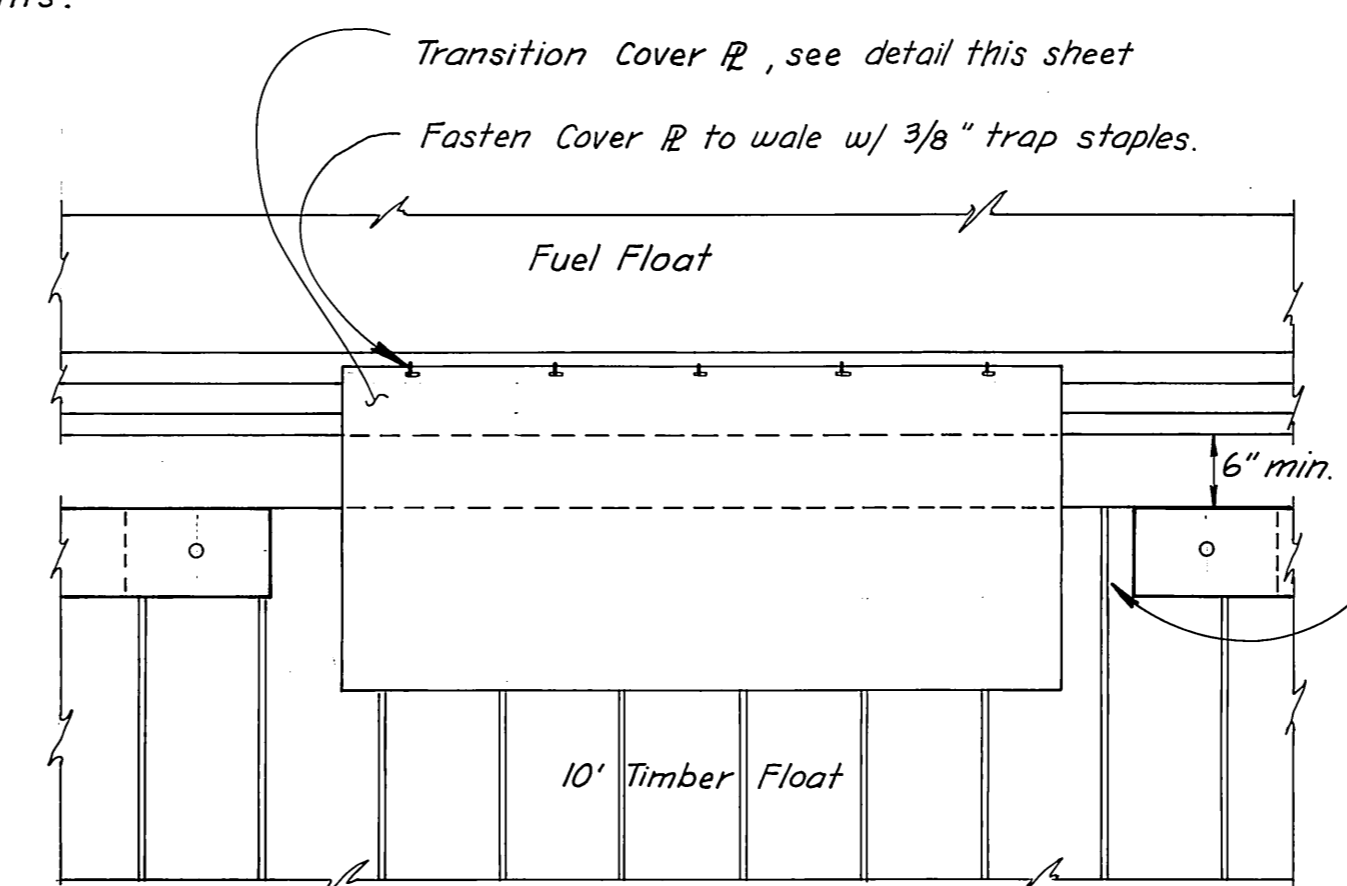
Note: All tiedown rail connections made with 3/4"  $\phi$  bolts. See details sht. 7 of 27. Provide tiedown rail across float ends and outside edge.



**END WELDMENT**  
3/4" = 1'-0"

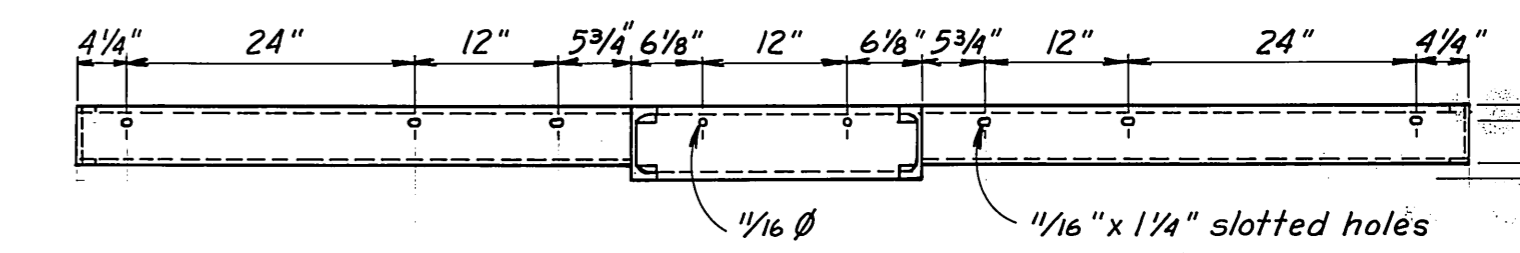
1/16" x 1/4" slotted holes for thru rods use lock washer under nut.

1/16"  $\phi$  holes req'd. on outside of end weldments for pile collar weldments.



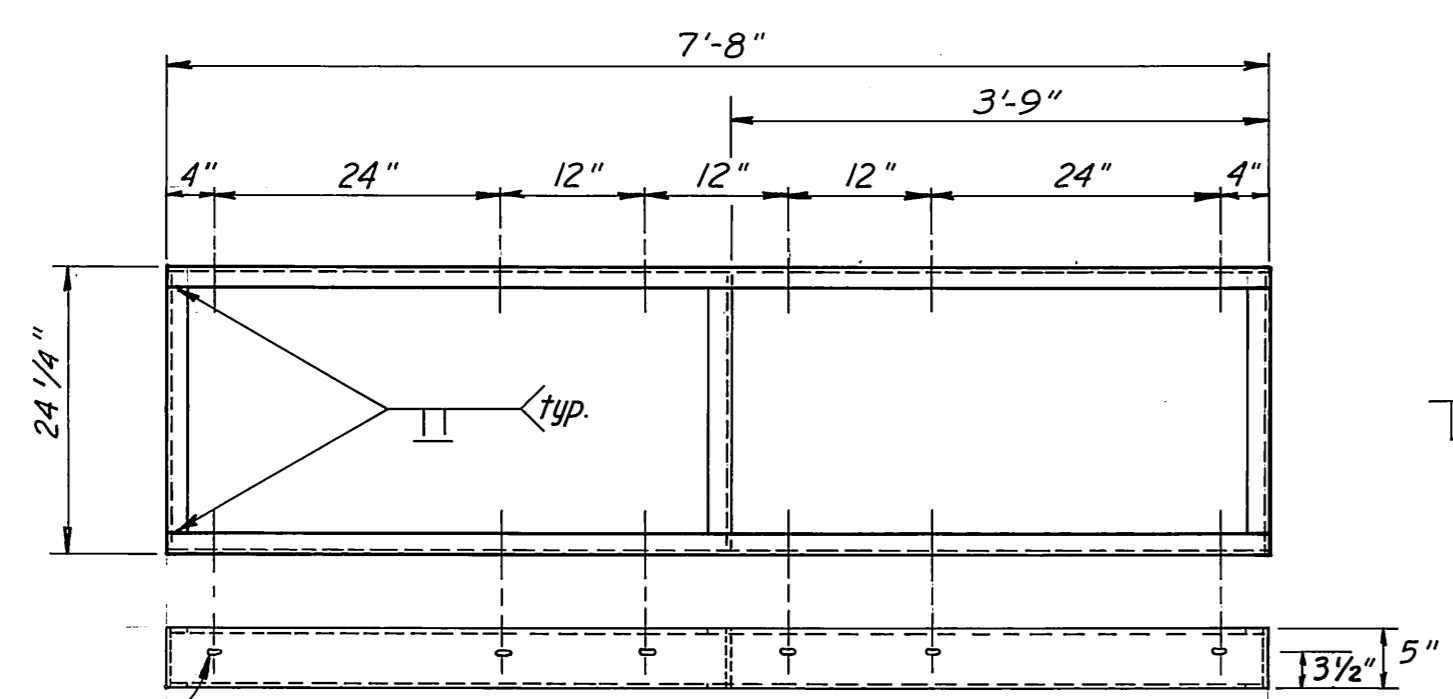
**FUEL FLOAT TRANSITION**  
3/4" = 1'-0"

Cut a 6" gap in tie down rail to provide access to fuel float.



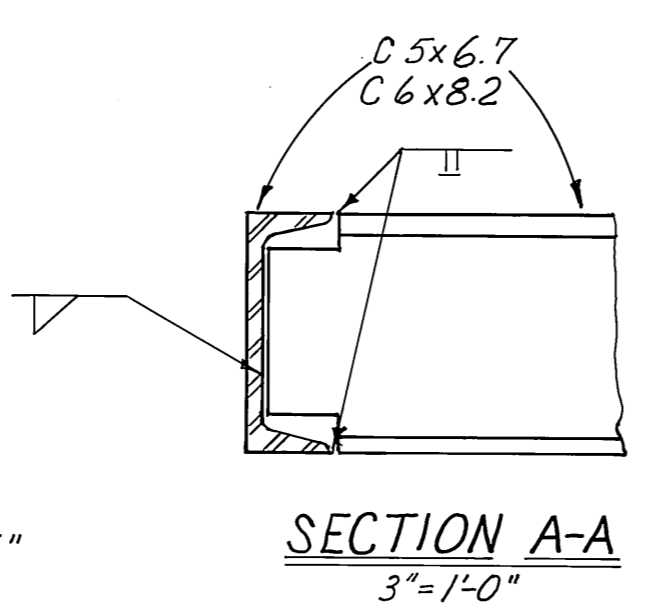
**BEAM COLLAR WELDMENT DETAILS**  
3/4" = 1'-0"

Note: See sht. 13 for sectional view of pile collar.



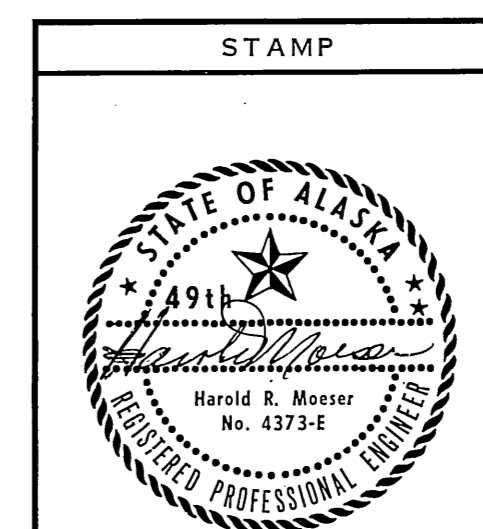
**CENTER WELDMENT**  
3/4" = 1'-0"

1/16" x 1/4" slotted holes for thru rods. Use lock washer under nut.

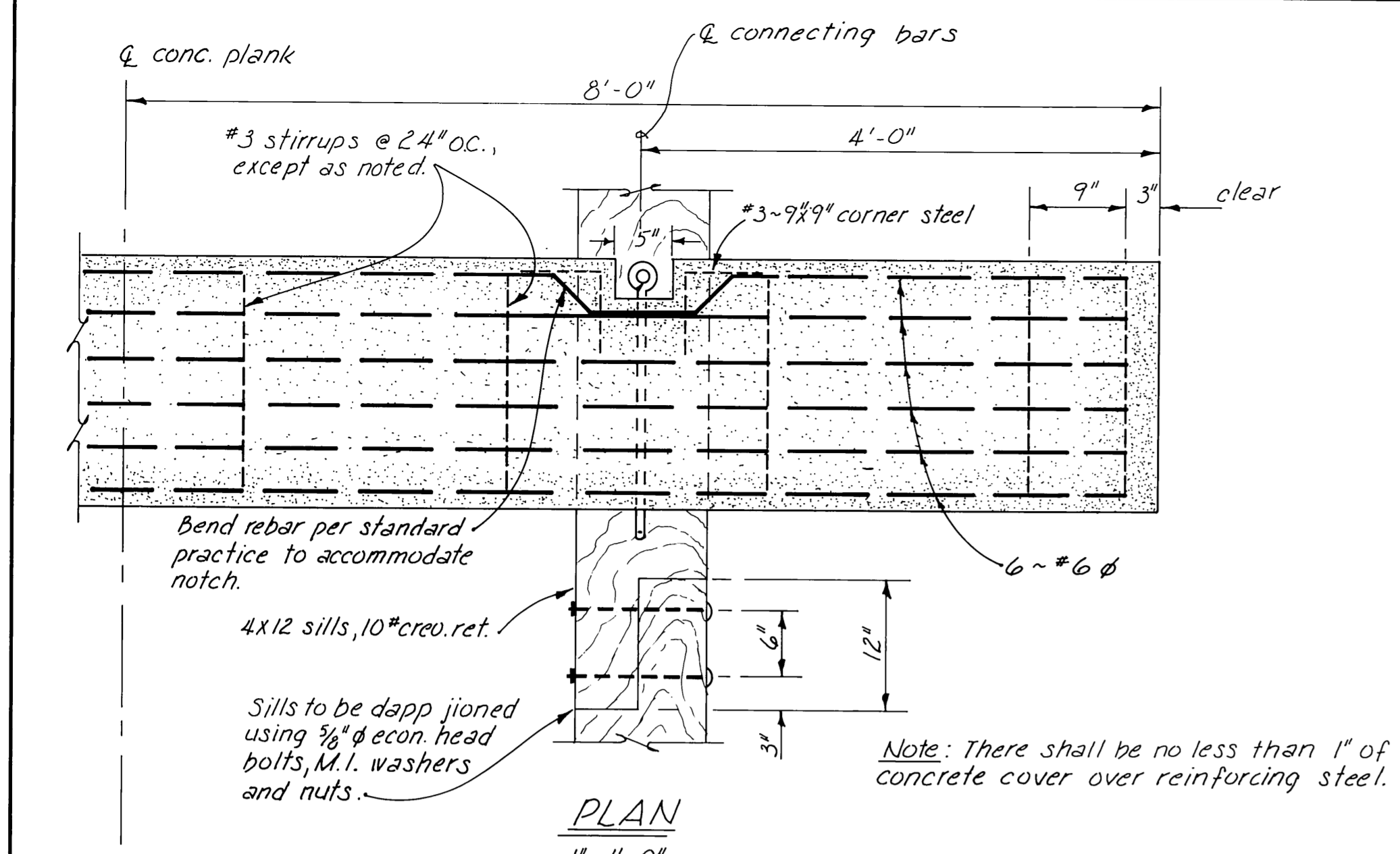


**SECTION A-A**  
3" = 1'-0"

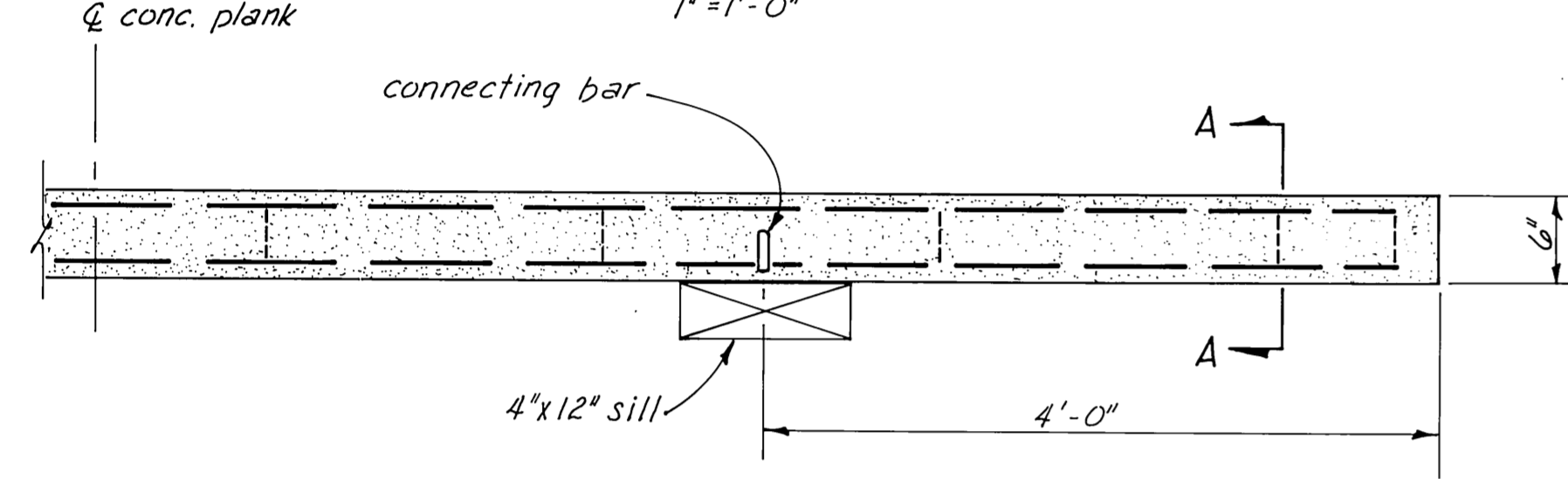
**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction



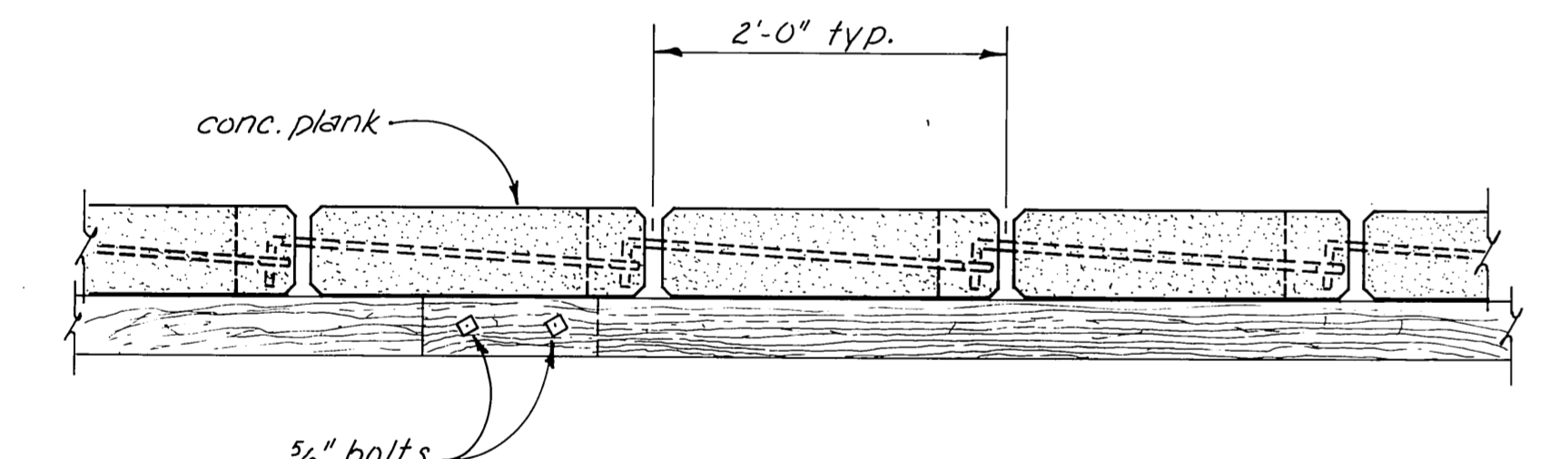
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
<b>FUEL FLOAT</b>		
SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: JDB	DRAWN: TS	<b>ROBERT P. BECK</b> Chief of Design
CHECKED: _____	DATE: Dec. 79	
PROJECT NUMBER: K78147	SHEET 19 OF 28	



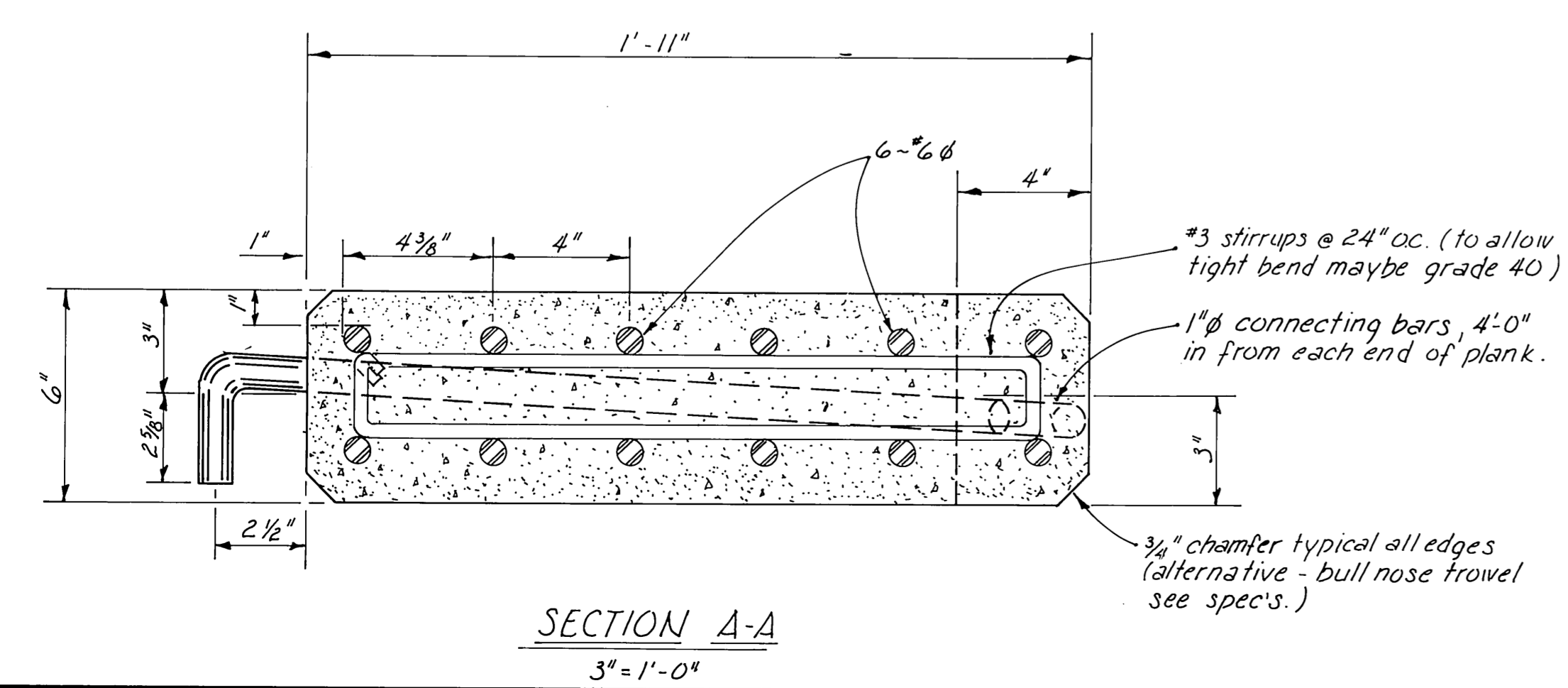
PLAN  
1" = 1'-0"



ELEVATION  
1" = 1'-0"

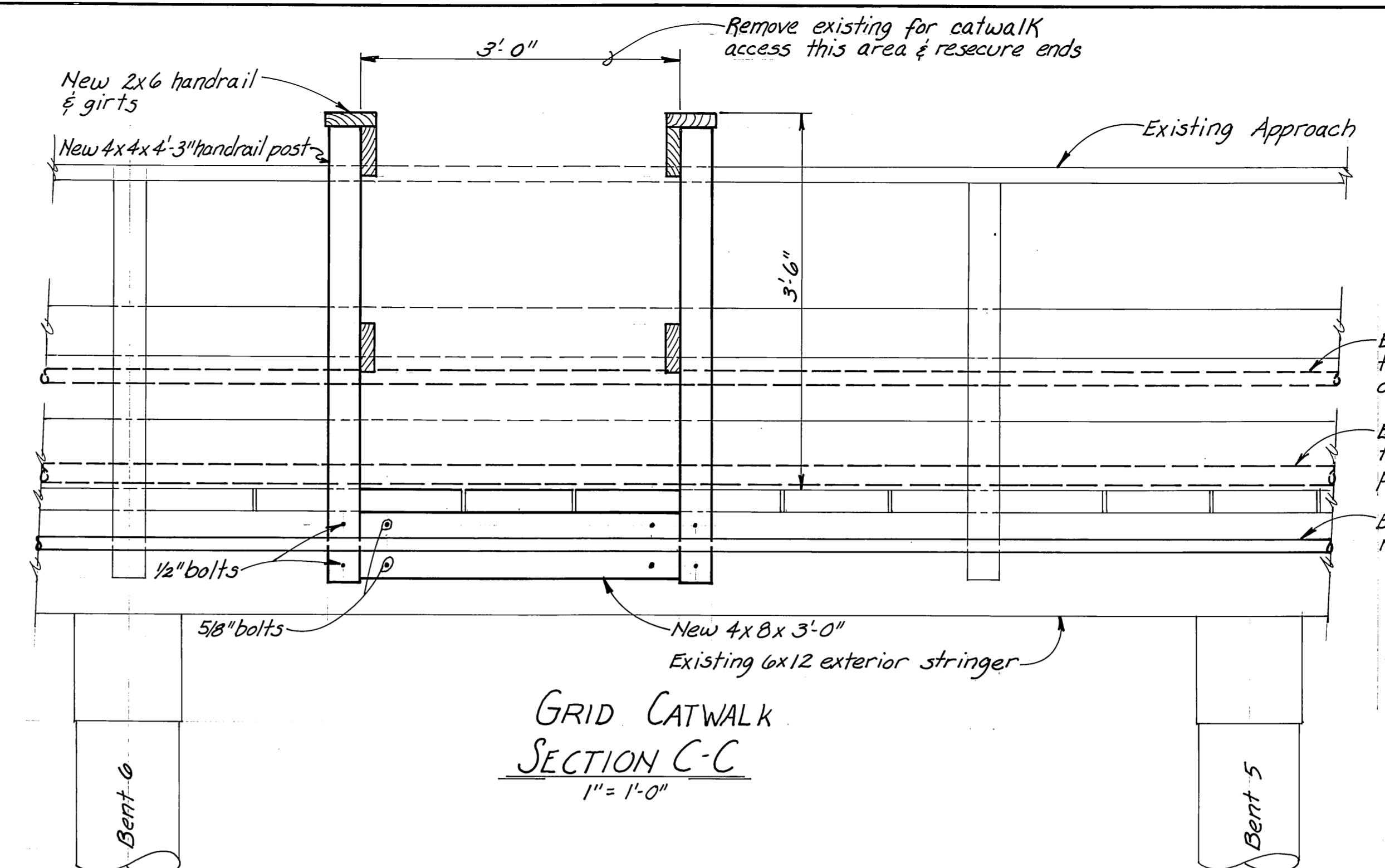


TYPICAL PLANK ASSEMBLY  
1" = 1'-0"

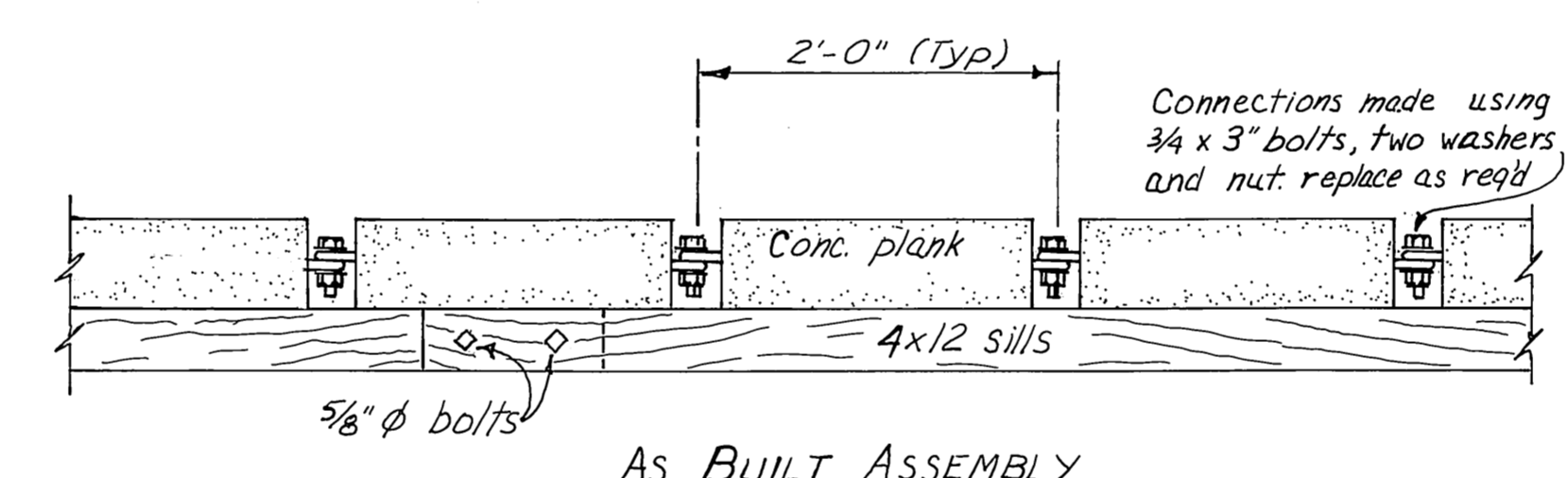


SECTION A-A  
3" = 1'-0"

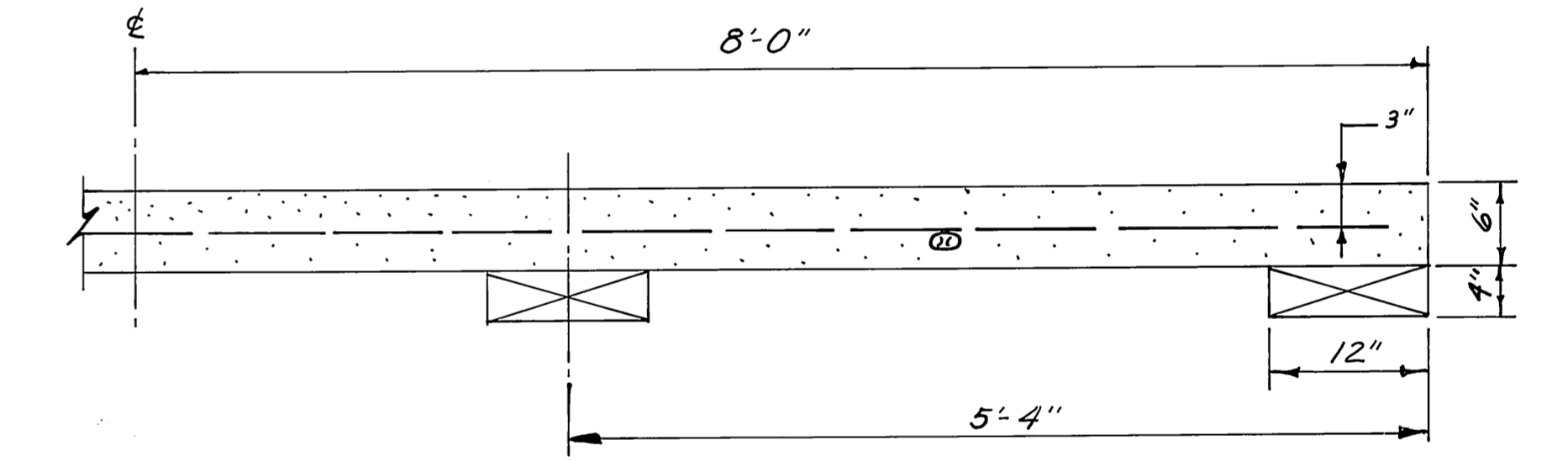
Note: For change from old planks to new planks, see transition plank detail sht. 1B



GRID CATWALK  
SECTION C-C  
1" = 1'-0"

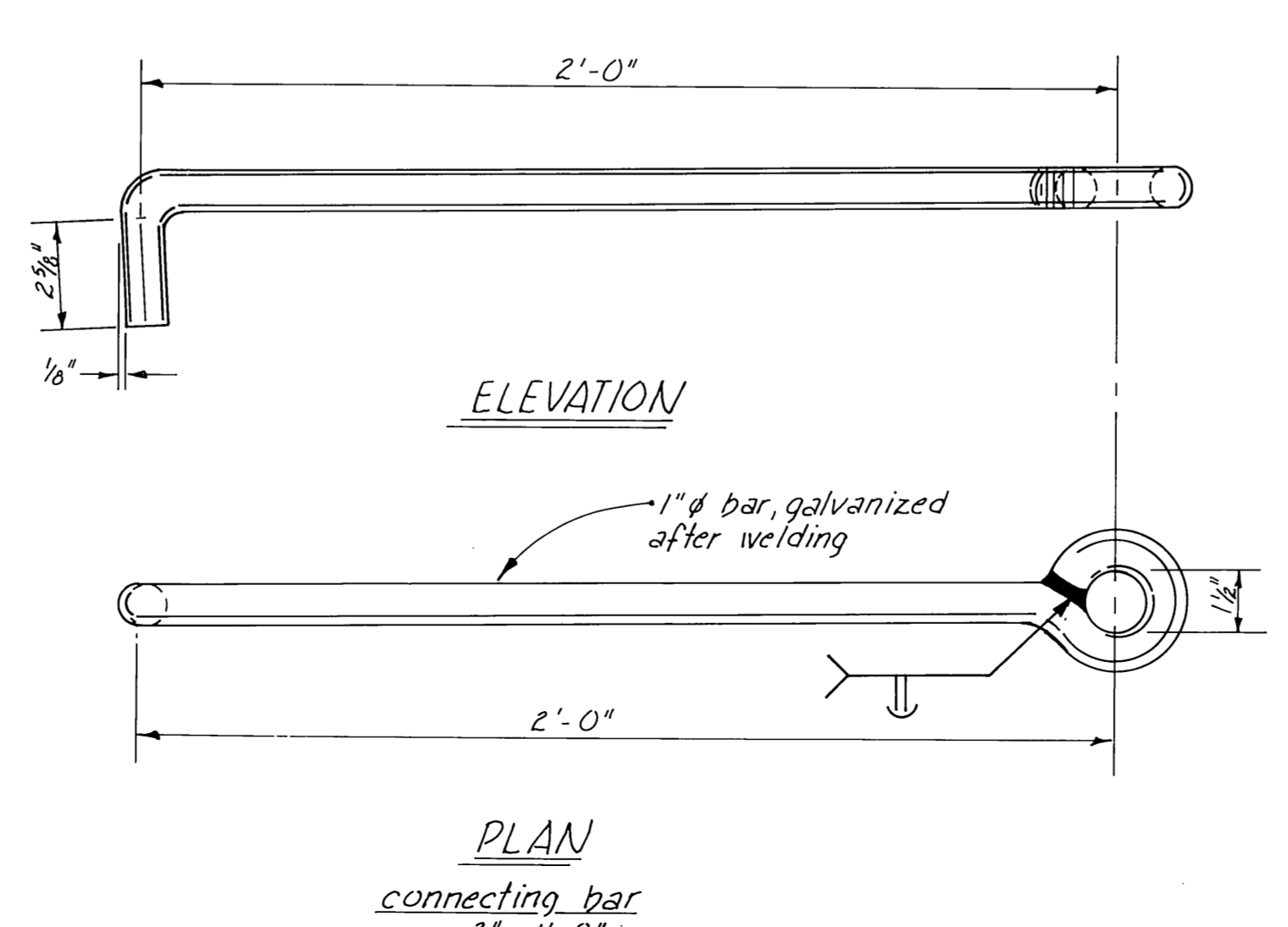


AS BUILT ASSEMBLY

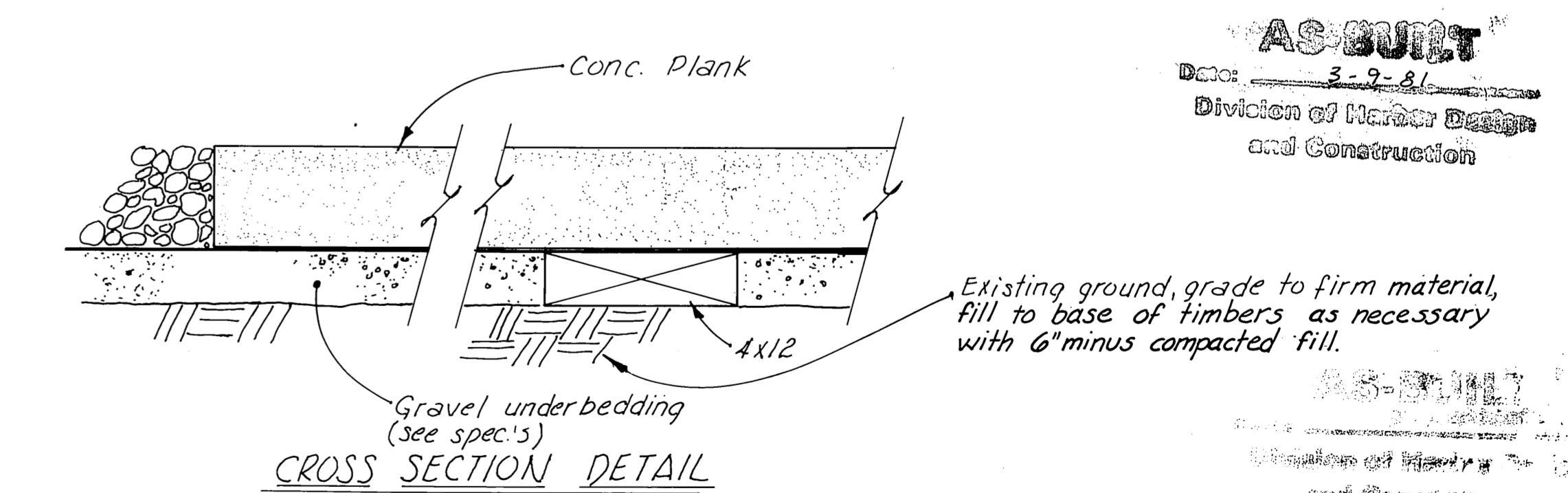


AS BUILT ELEVATION

AS BUILT RAMP TO BE RELOCATED (ALTERNATE A)  
1" = 1'-0"




PLAN  
connecting bar  
3" = 1'-0"



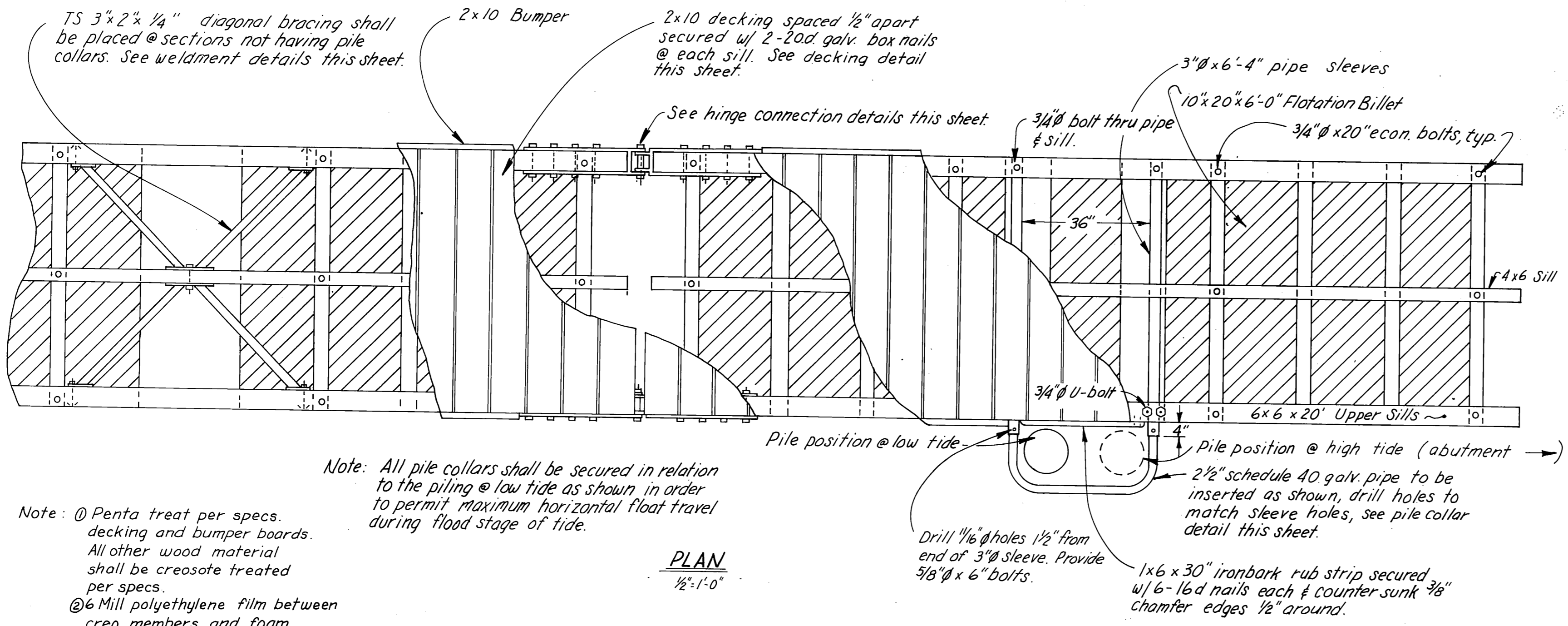
CROSS SECTION DETAIL  
1 1/2" = 1'-0"

Note: Concrete fc ≥ 5000 psi  
Reinforcing steel fc = 60,000 psi

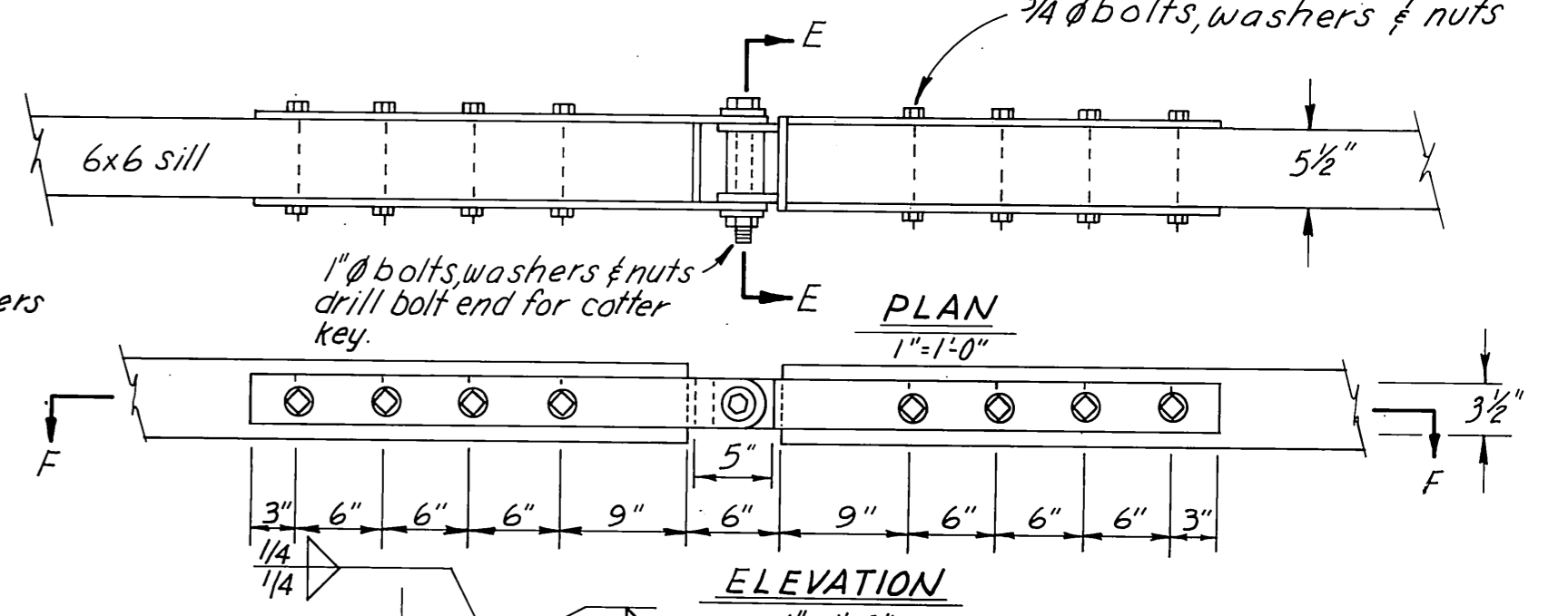
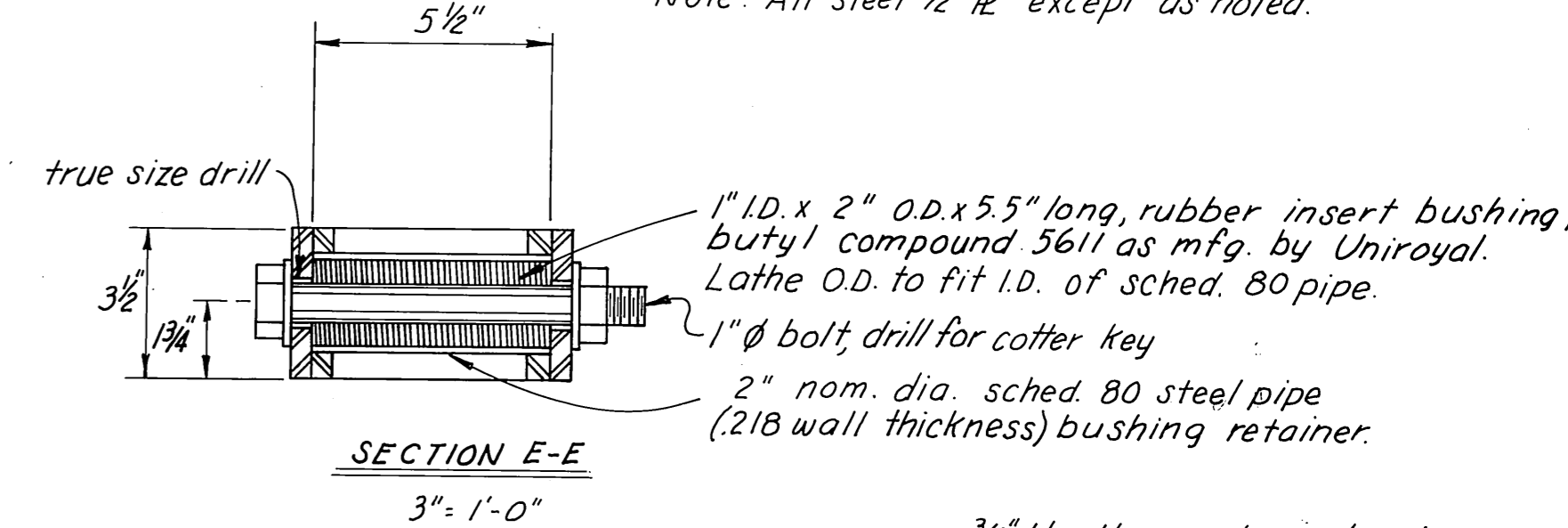
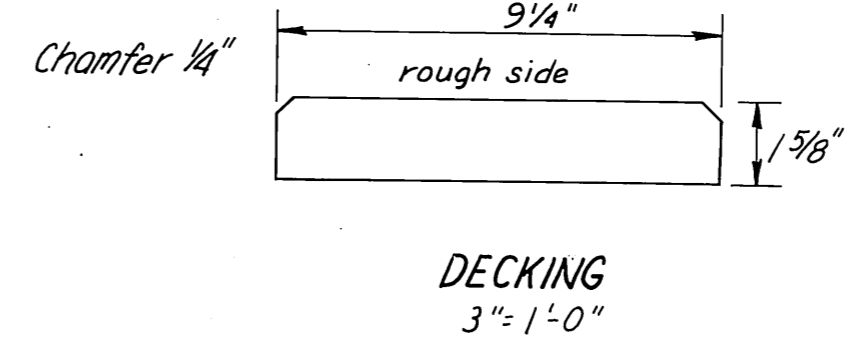
AS-BUILT  
Date: 3-9-81  
Division of Harbor Design and Construction

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
JKAGWAY		ALASKA	
<b>LAUNCH RAMP DETAILS</b>			
SCALE: As Noted	SURVEYED:	APPROVED:	
DESIGNED: GRF	DATE: 6-1-79	 Chief of Design	
CHECKED:			
PROJECT NUMBER: K 78147	SHEET: 20 OF 28		

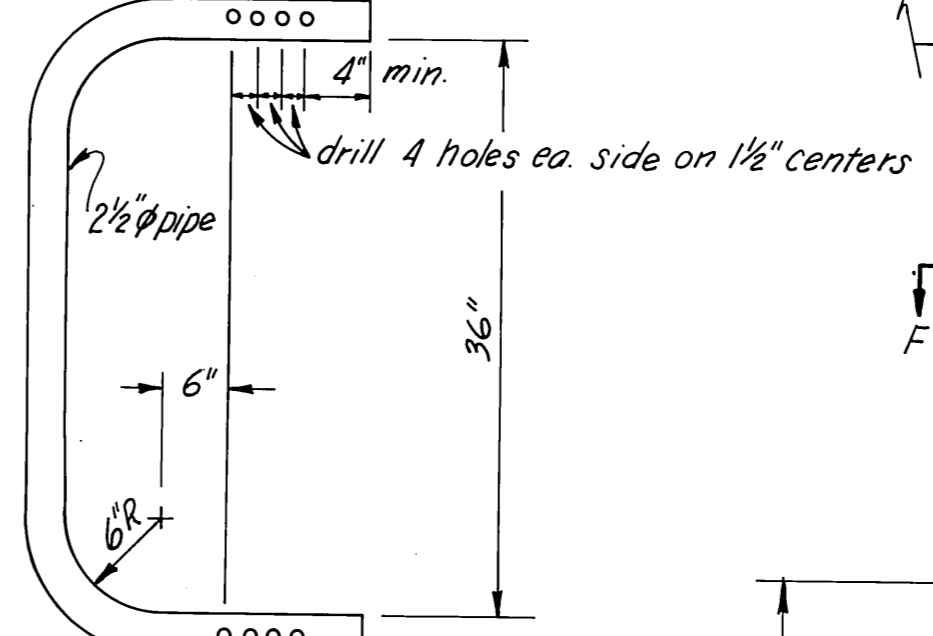
Note: All steel 1/2" R except as noted.



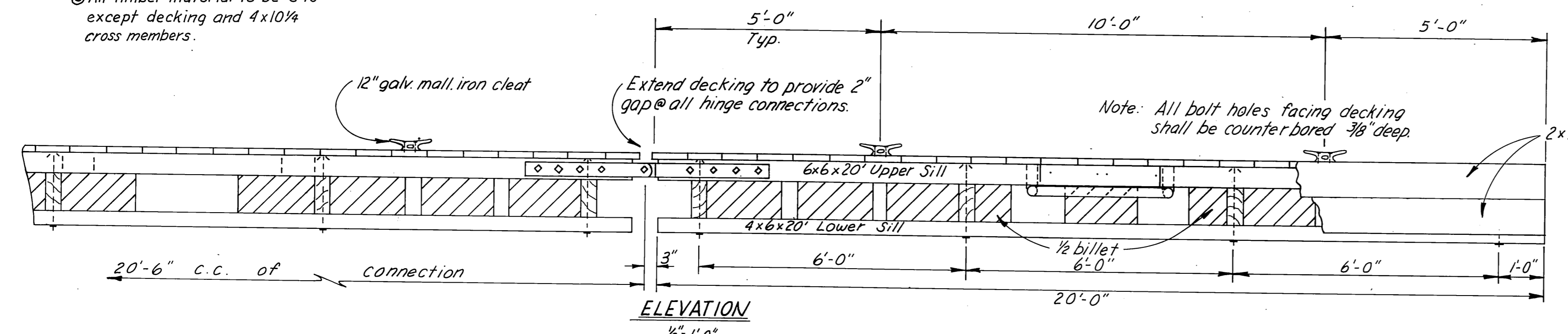
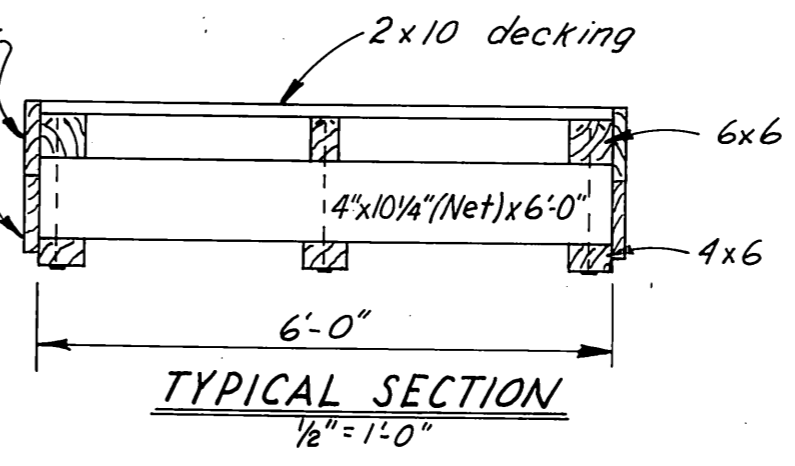
PLAN 1/2" = 1'-0"



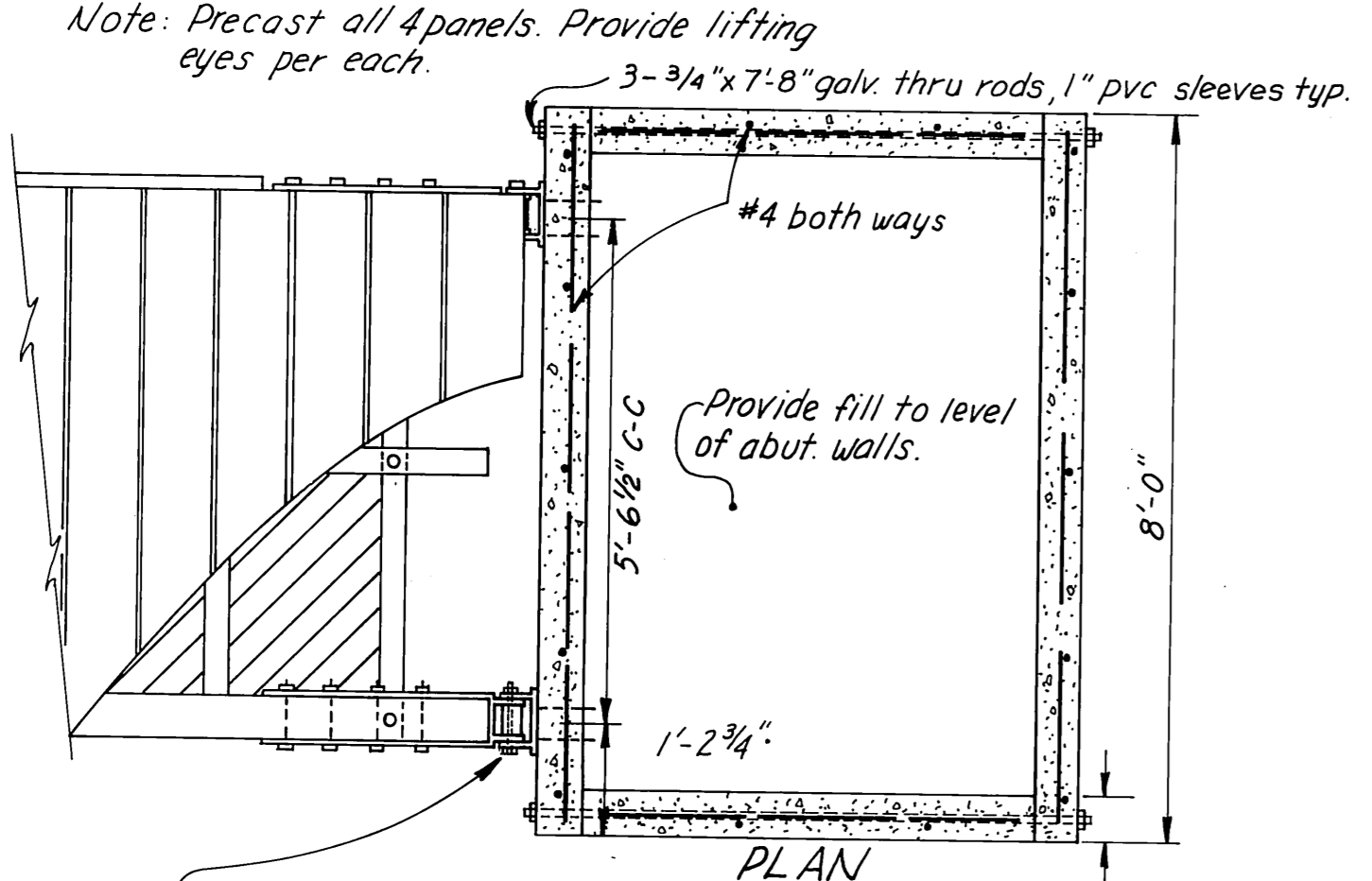
SECTION F-F 3" = 1'-0"



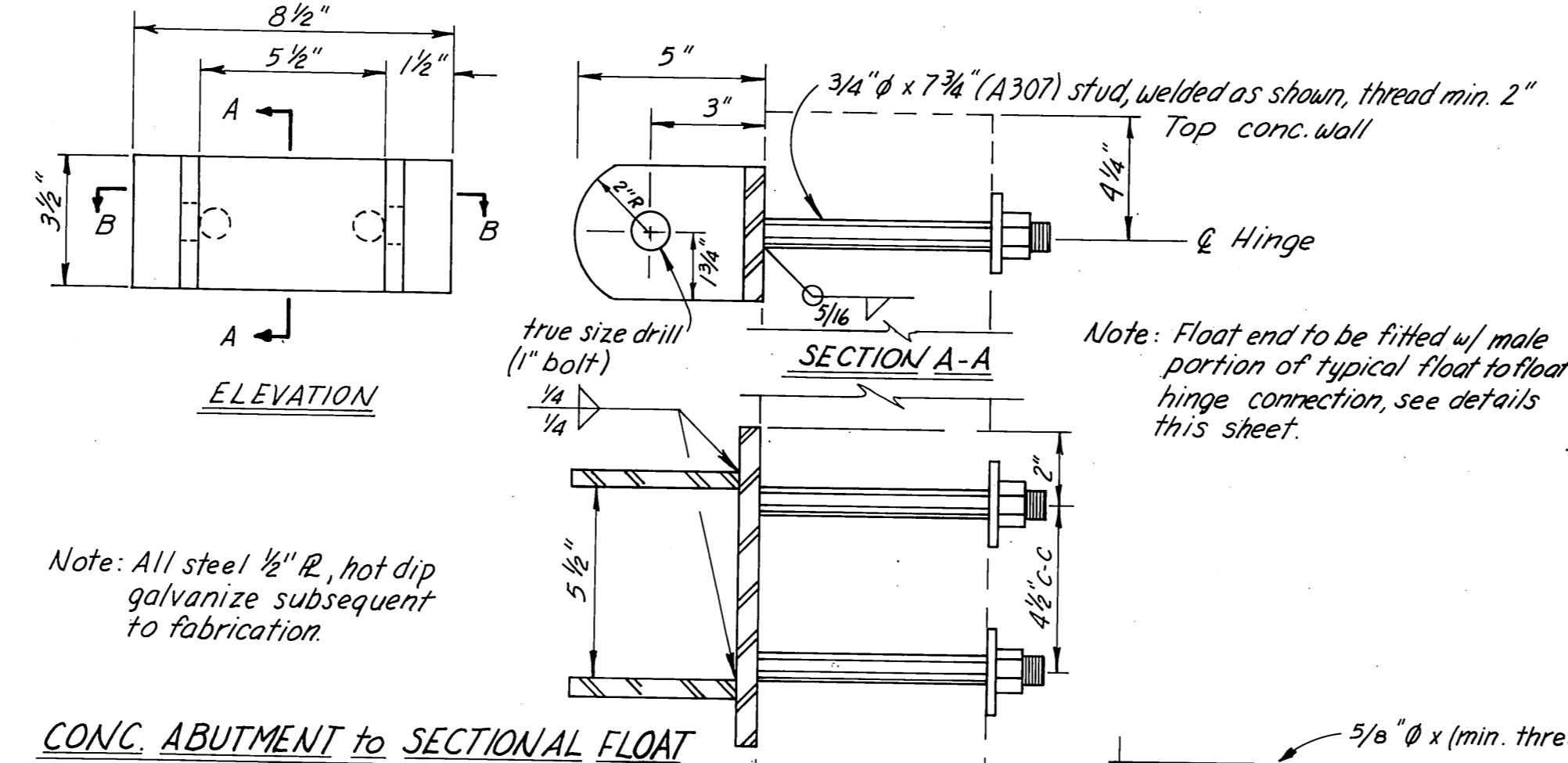
DETAIL PIPE PILE COLLAR 1" = 1'-0"



ELEVATION 1/2" = 1'-0"

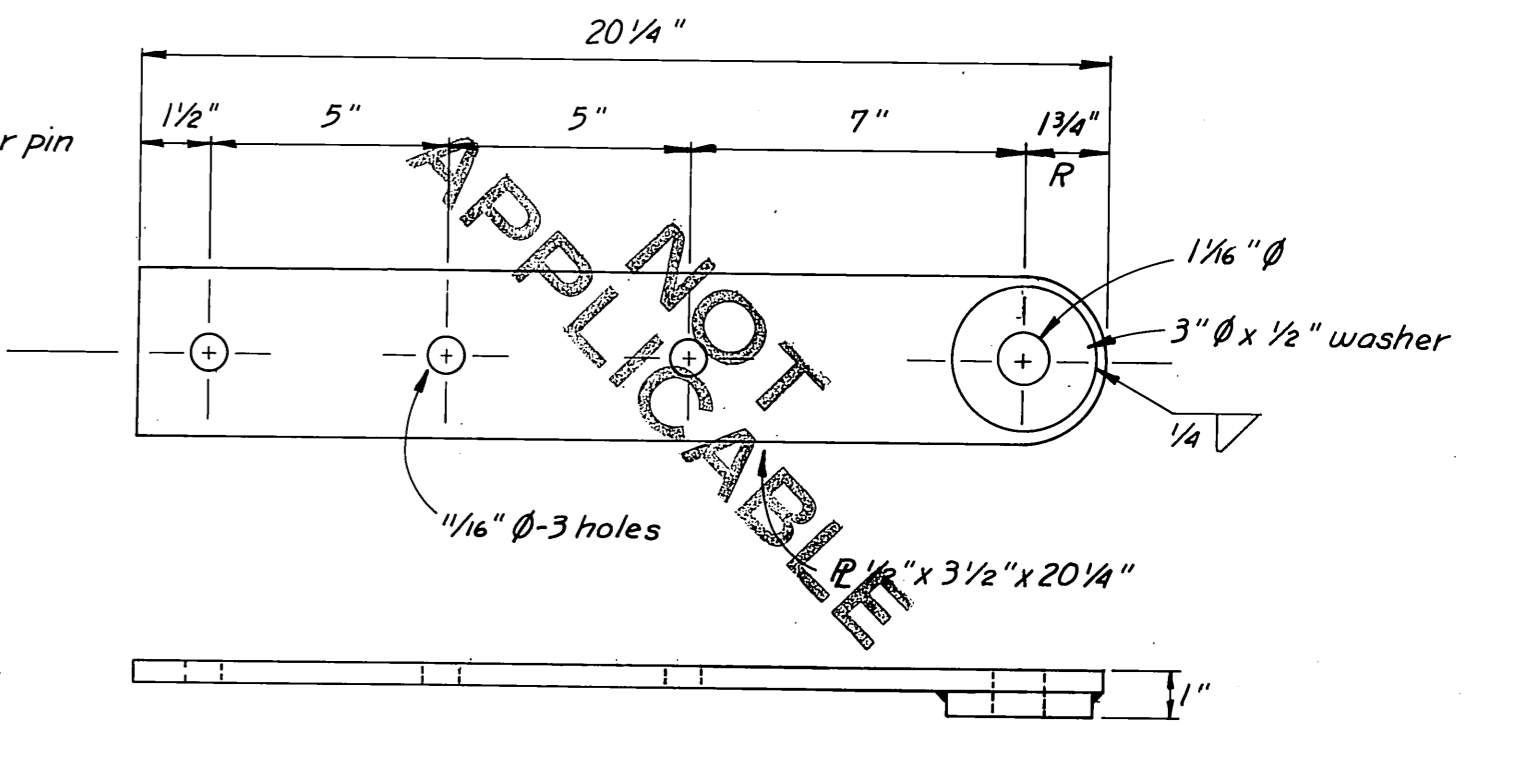
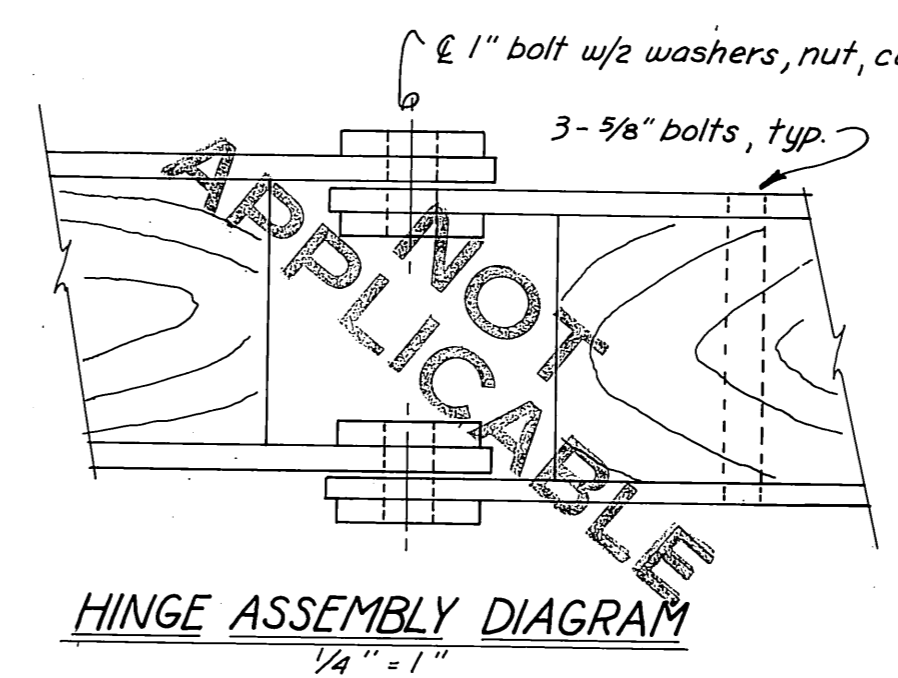


PLAN 1/2" = 1'-0"



ELEVATION 3" = 1'-0"

CONC. ABUTMENT TO SECTIONAL FLOAT CONNECTION 3" = 1'-0"

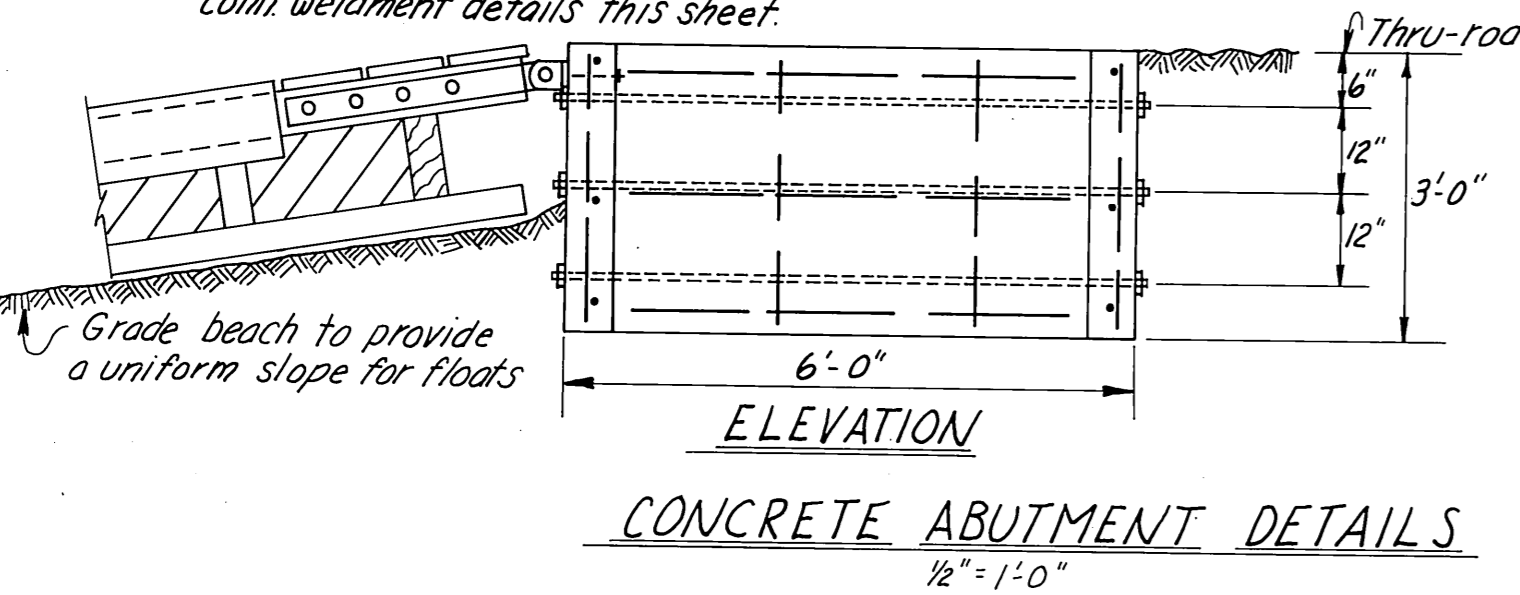


HINGE PLATE DETAIL 1/4" = 1"

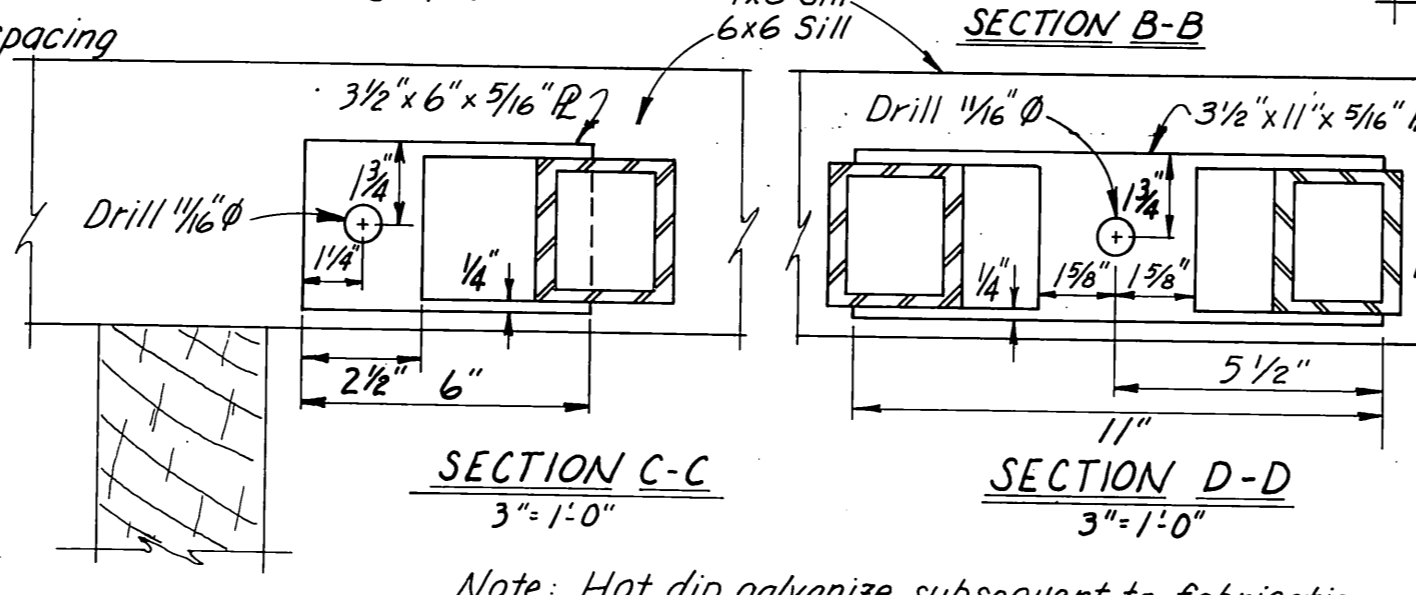
AS-BUILT

Date: 3-9-81

Division of Harbor Design and Construction



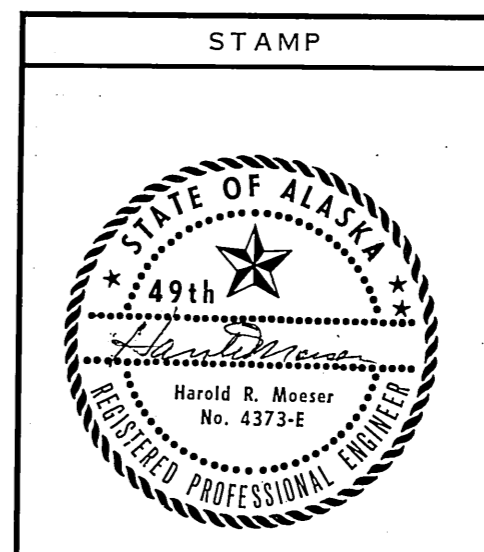
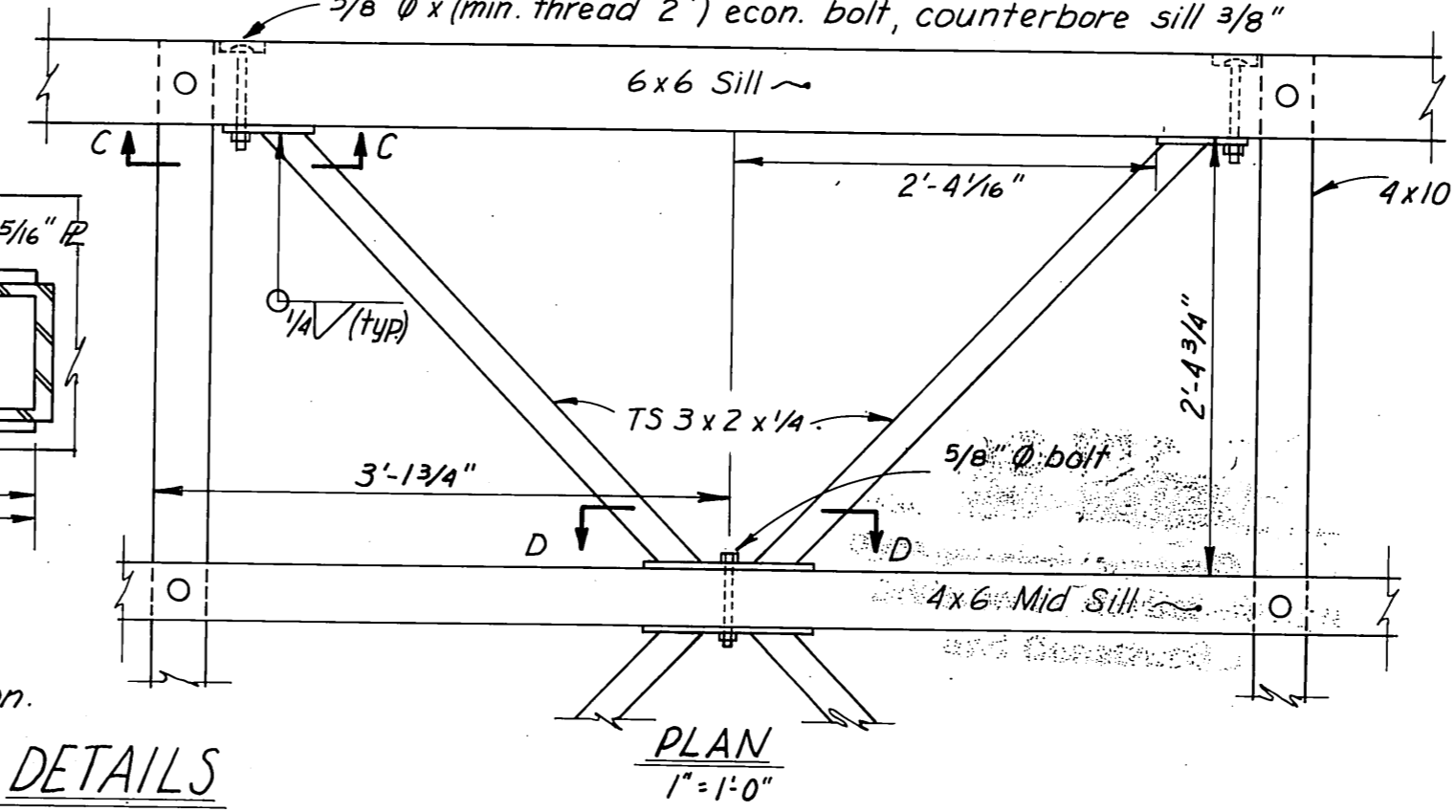
ELEVATION 1/2" = 1'-0"



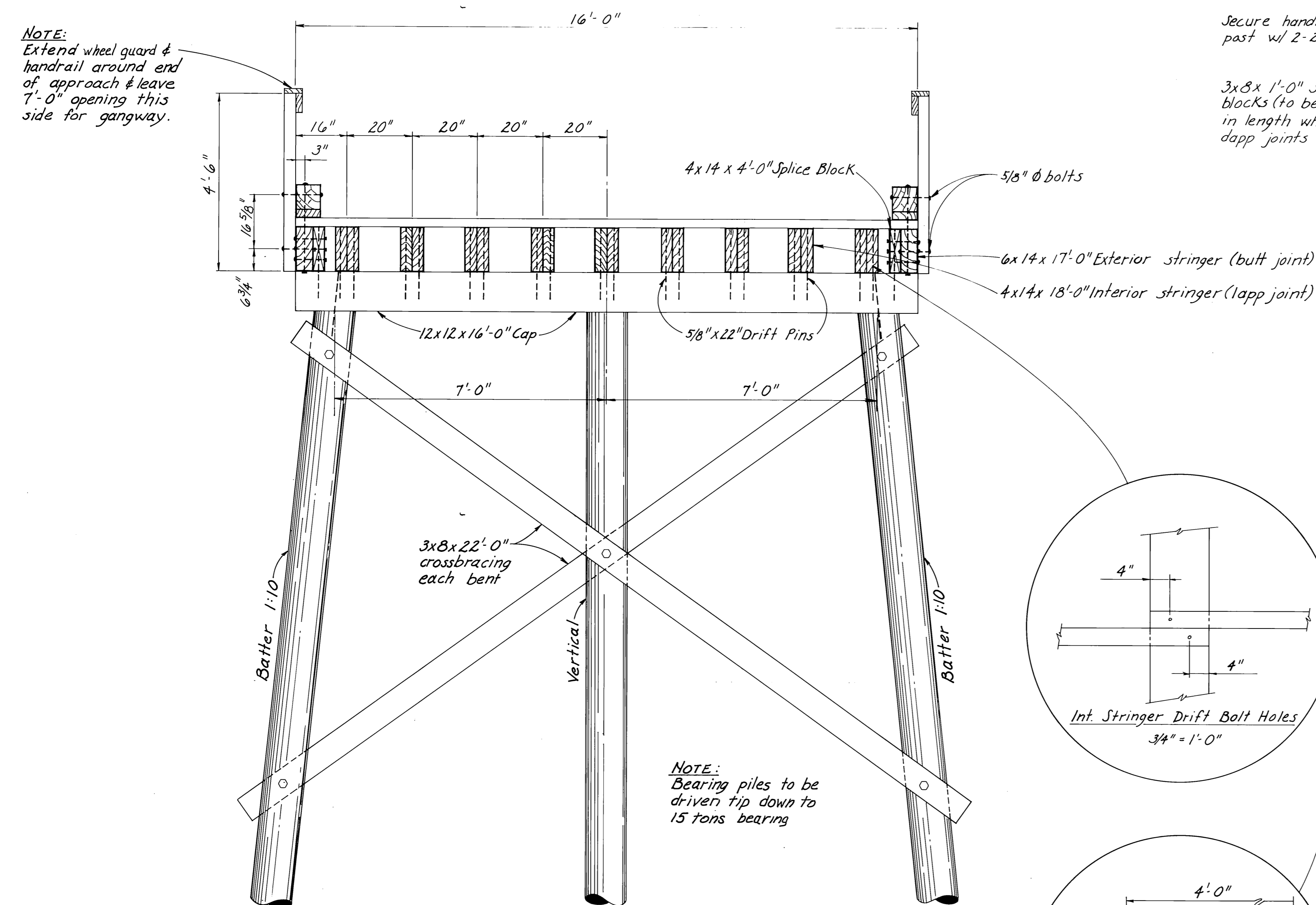
SECTION C-C 3" = 1'-0"

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

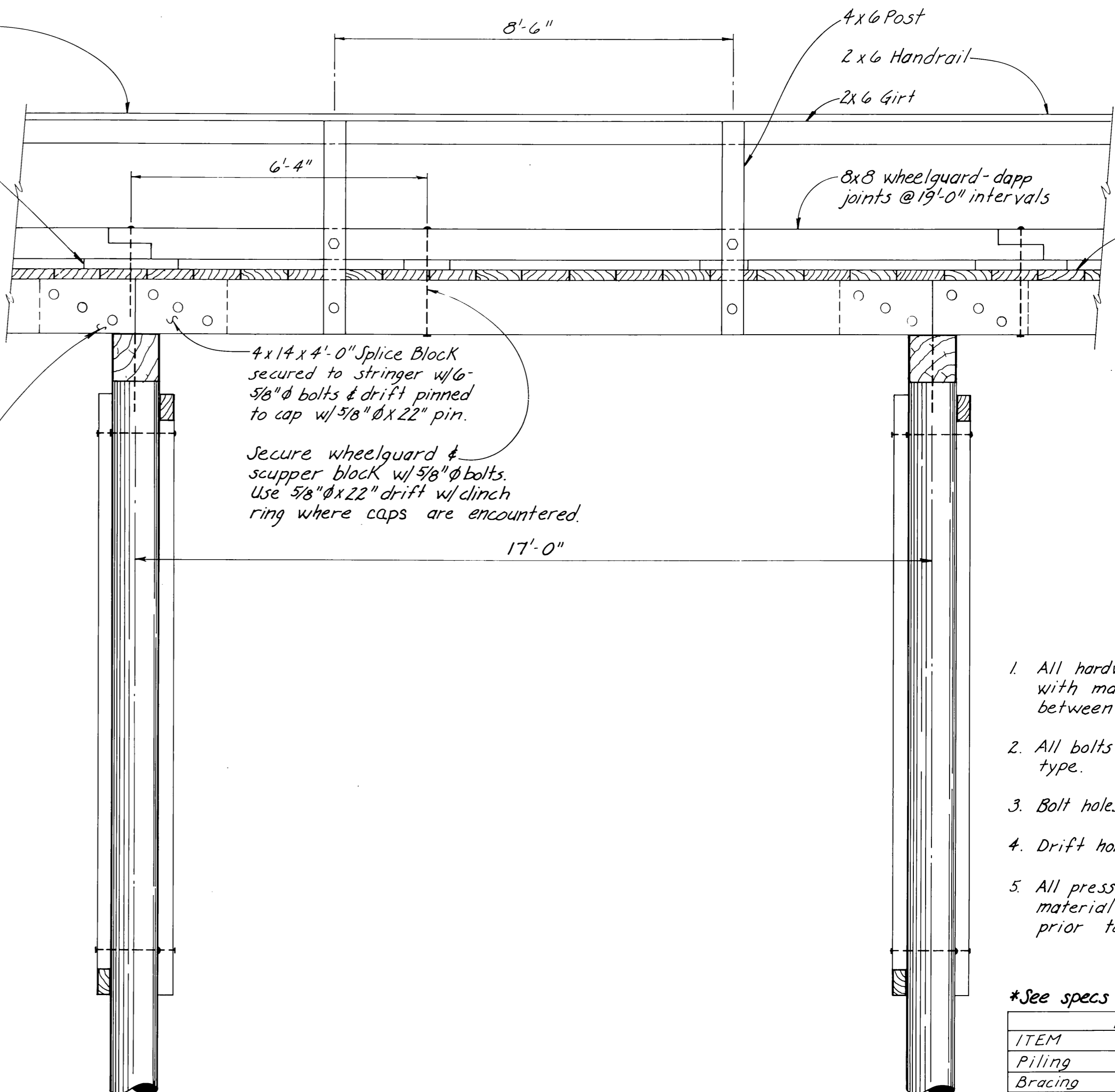
DIAGONAL BRACING DETAILS 1" = 1'-0"



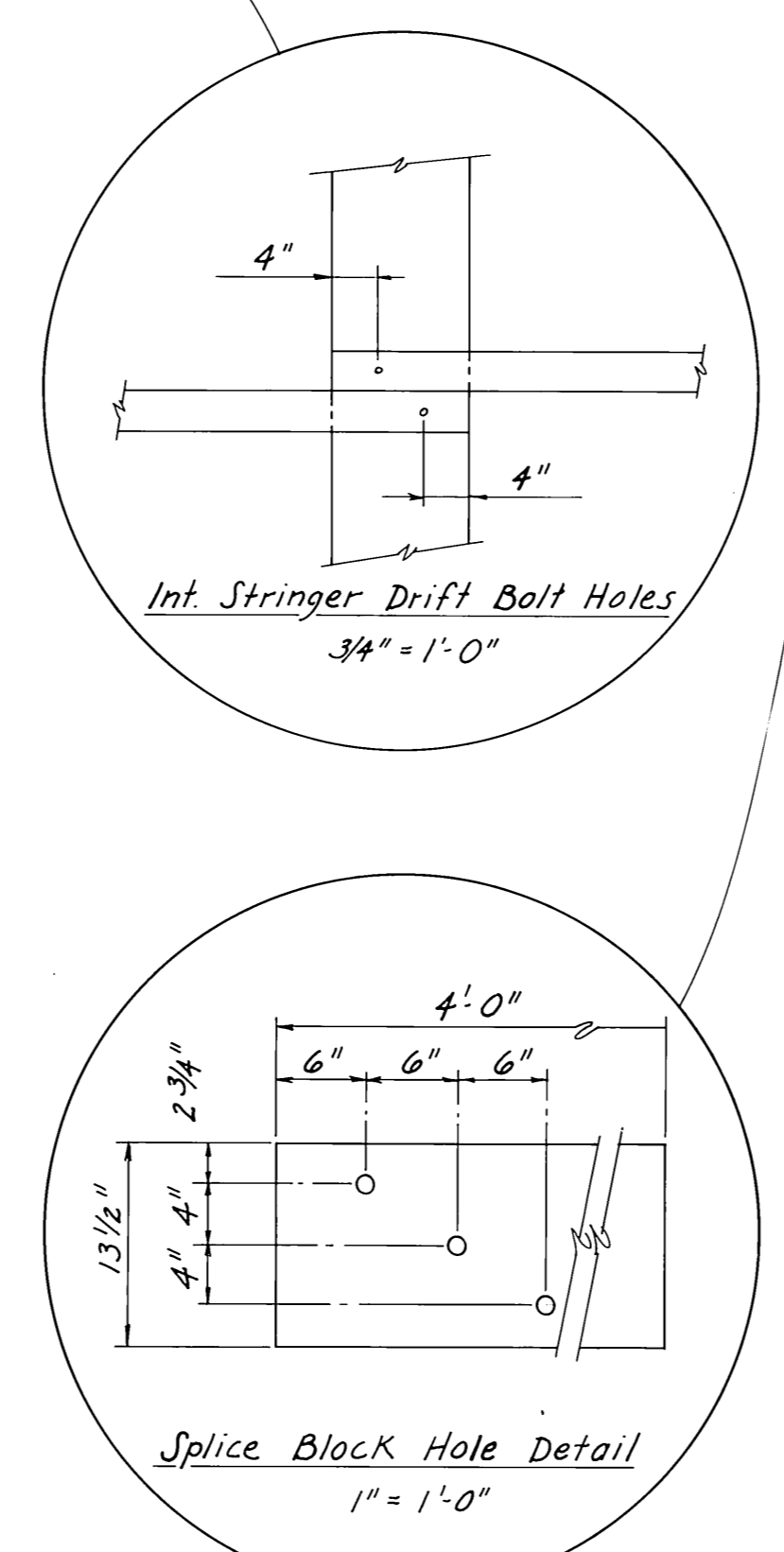
DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
6' SECTIONAL FLOAT.	
SCALE As Noted	SURVEYED
DESIGNED RB/DW	DRAWN TS
CHECKED	DATE NOV. 79
PROJECT NUMBER K 78147	APPROVED
	Robert P. Beck
	DIRECTOR
	SHEET 21 OF 28



**TYPICAL APPROACH SECTION**  
1/2" = 1'-0"



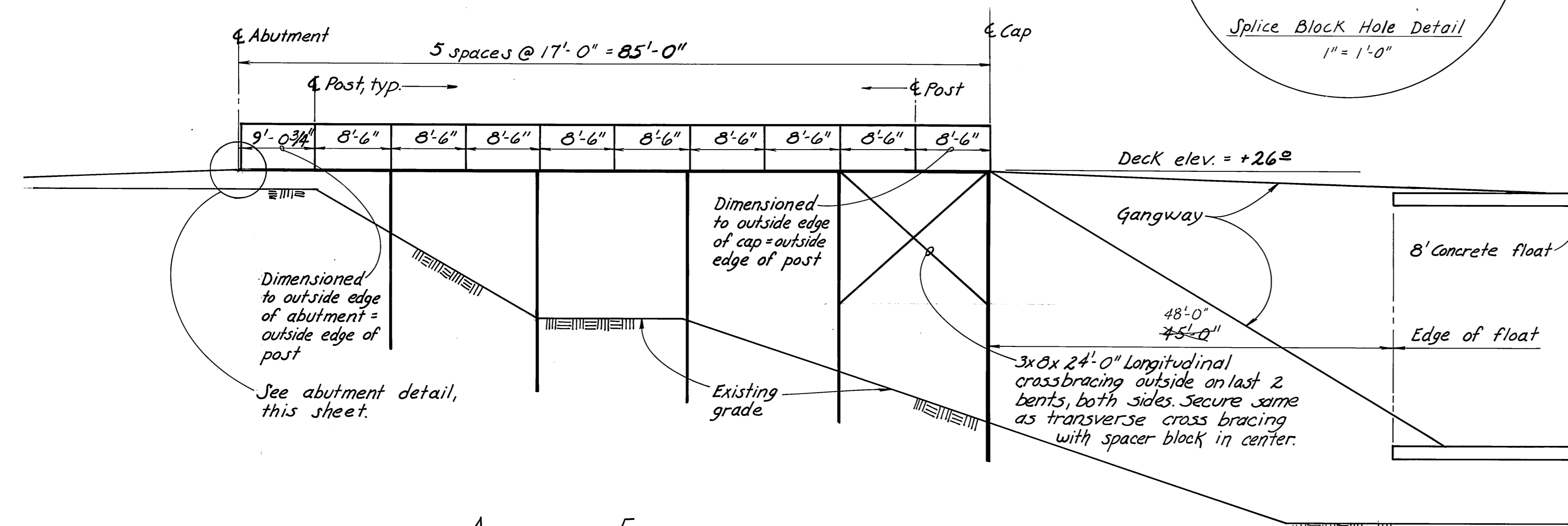
**TYPICAL SIDE ELEVATION**  
1/2" = 1'-0"



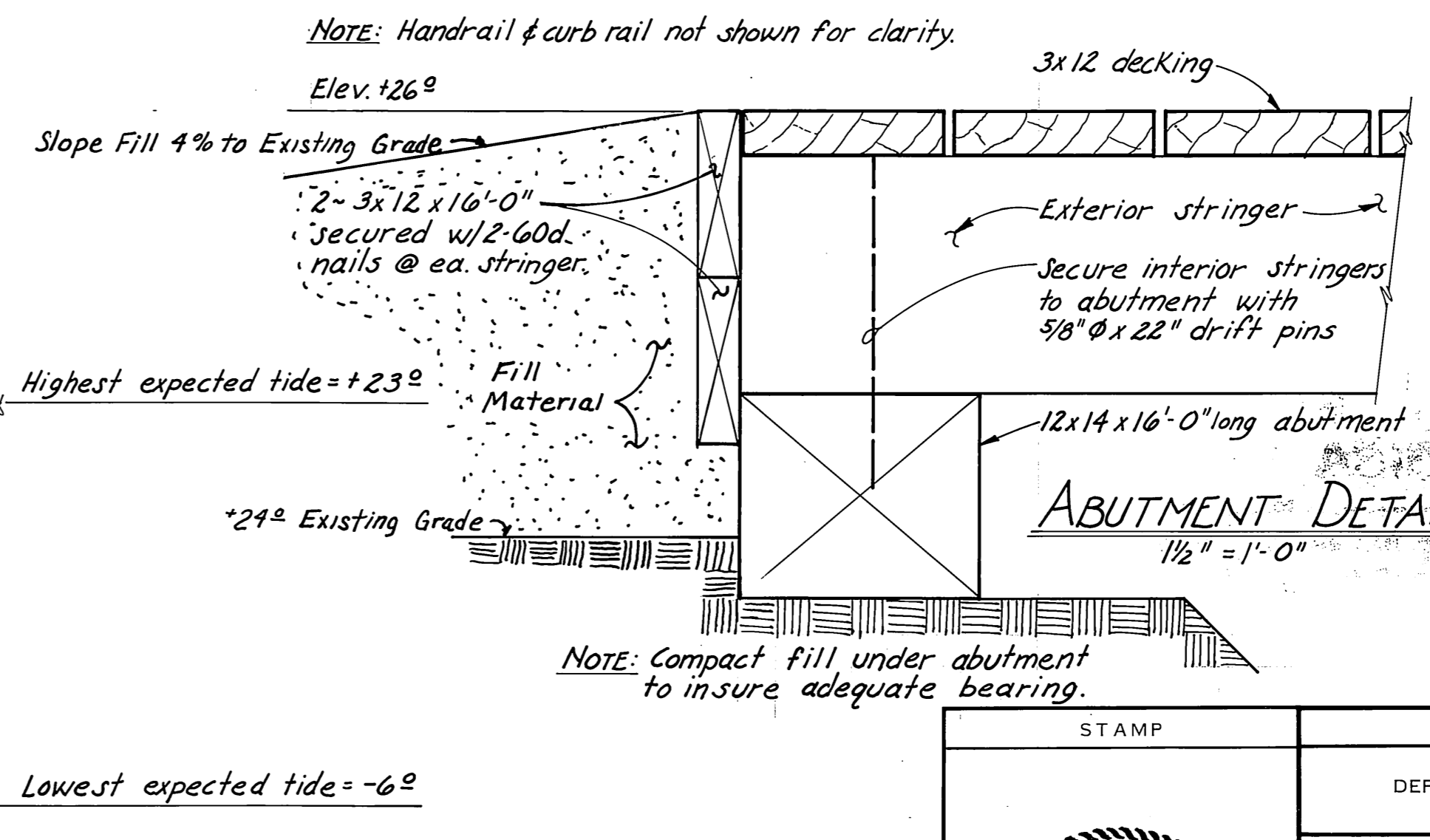
- NOTES**
1. All hardware to be galvanized with malleable iron washers between nut & wood surfaces.
  2. All bolts to be of mushroom head type.
  3. Bolt holes to be drilled 1/16" oversize.
  4. Drift holes to be drilled 1/16" oversize.
  5. All pressure treated creosote material shall be cut to size prior to treatment.

\*See specs for density of treatment

ITEM	MATERIALS	TREAT *
Piling		See Specs
Bracing	S4S	Creo
Caps	S4S	Creo
Ext. Stringers	"	Creo
Splice Blocks	S4S	Creo
Int. Stringers	"	Creo
Decking	S1S2E	Penta
Scupper Blocks	S4S	Penta
Wheelguards	"	Penta
Handrail Posts	"	Penta
Girts	"	Penta
Handrail	"	Penta
Abutment	"	Creo



**APPROACH ELEVATION (PROFILE)**  
1" = 10'-0"



**PREDRILLED BOLT HOLES**

Int. Stringer - All drift bolt holes  
Ext. Stringer - Splice block  
Wheelguards - Stringer bolt holes  
Handrail Posts - All holes  
Splice Blocks - "

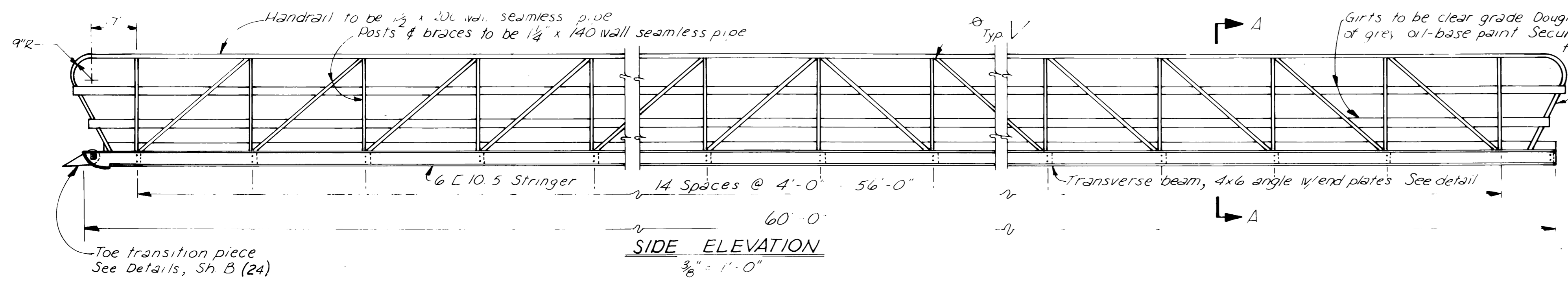
**FIELD DRILLED BOLT HOLES**

Caps - All drift bolt holes  
Braces - All bolt holes  
Ext. Stringers - Holes for handrail postholes  
Wheelguards - " " "

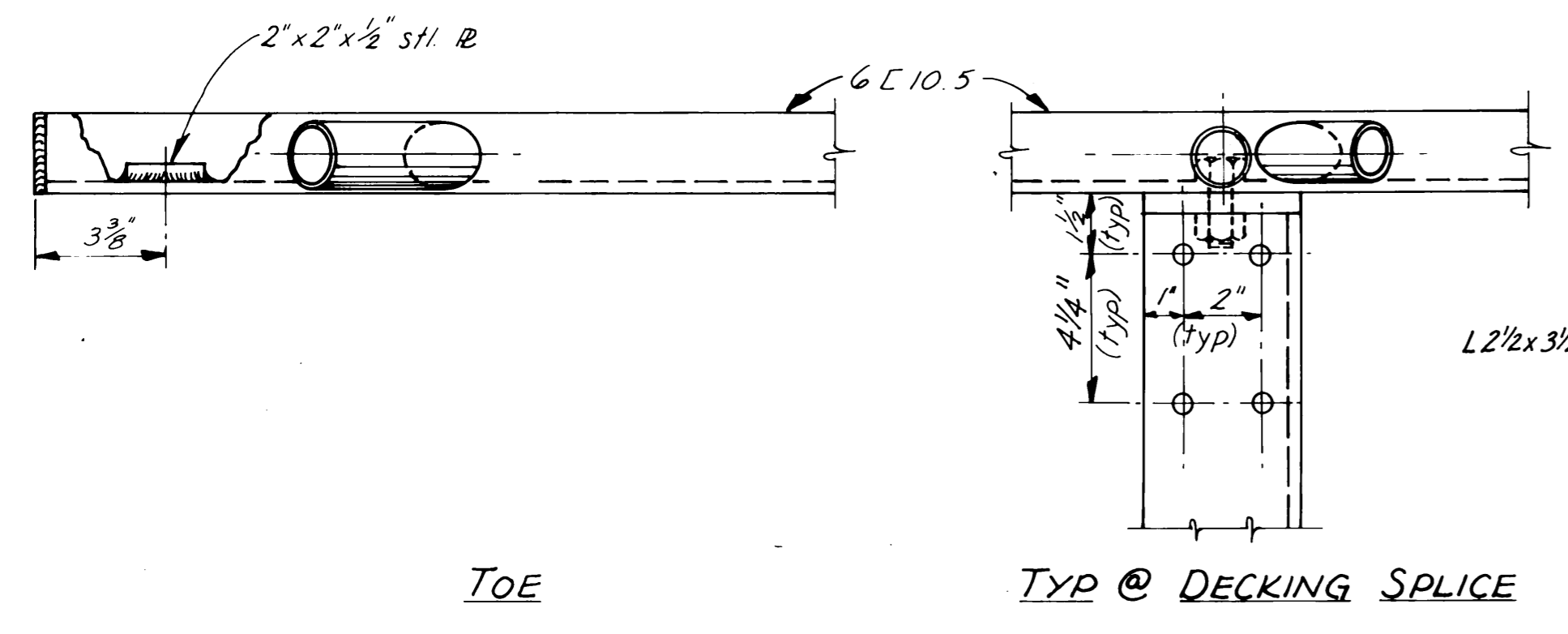
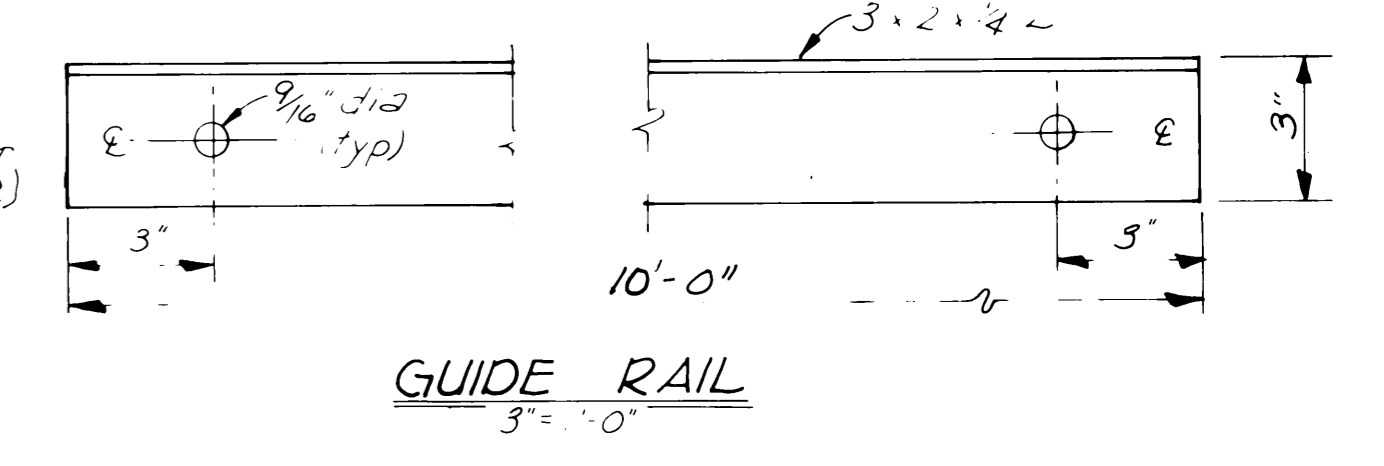
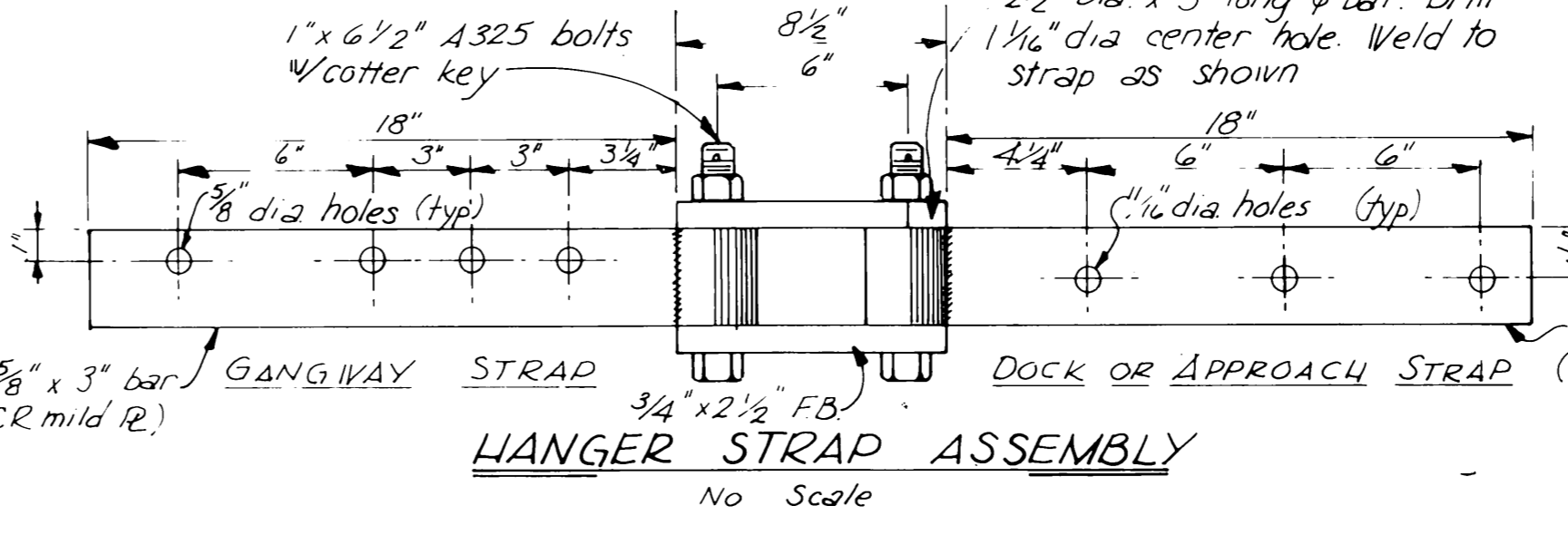
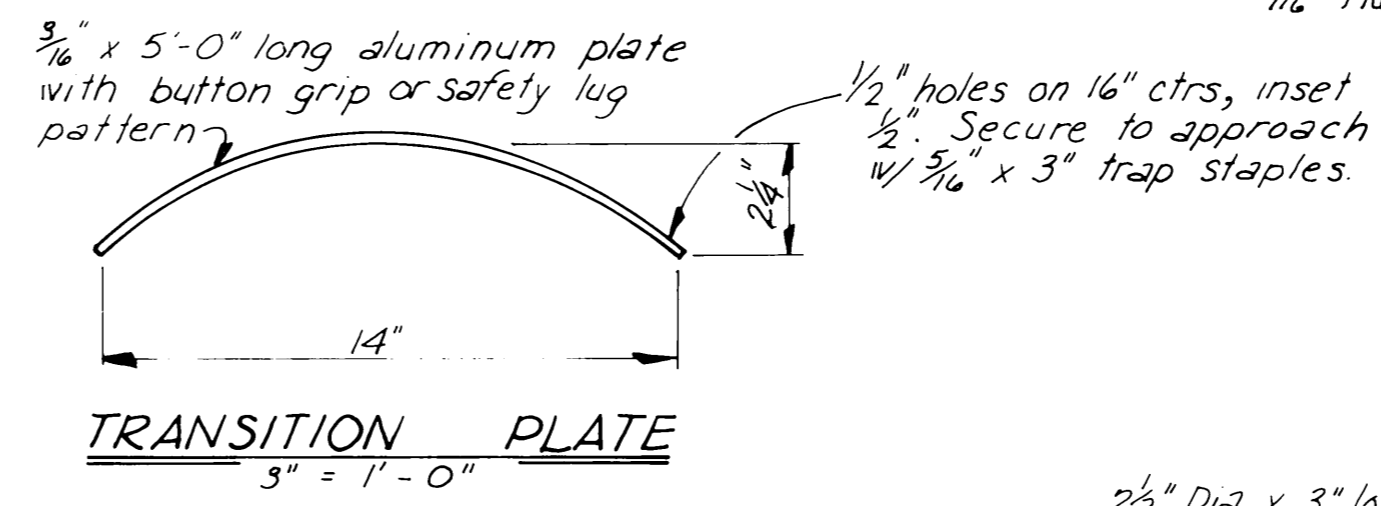
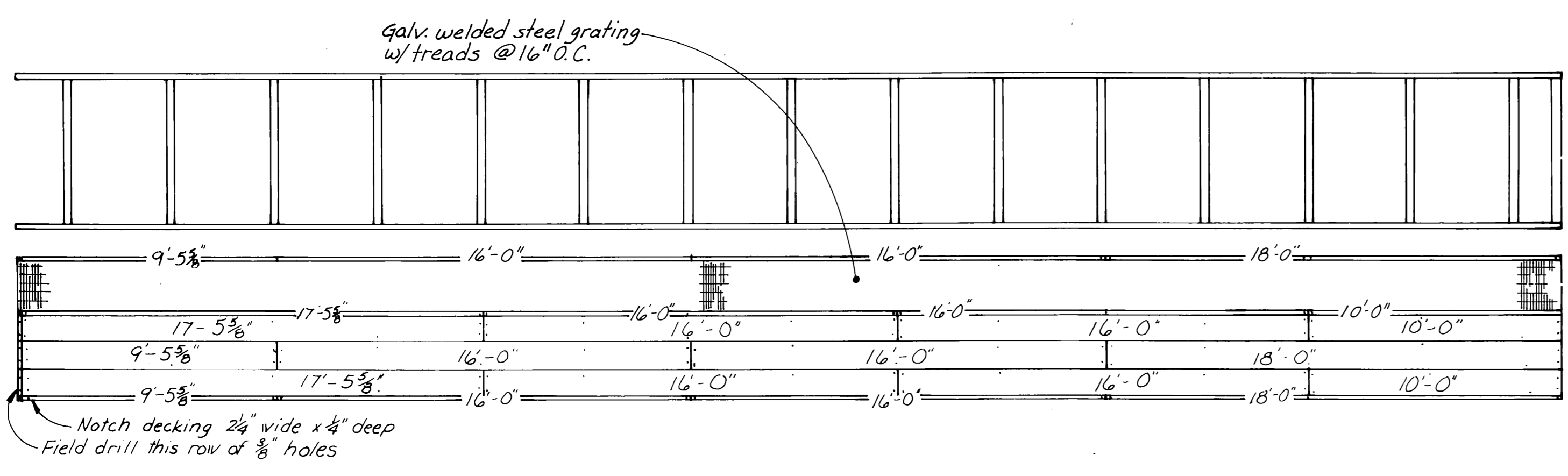
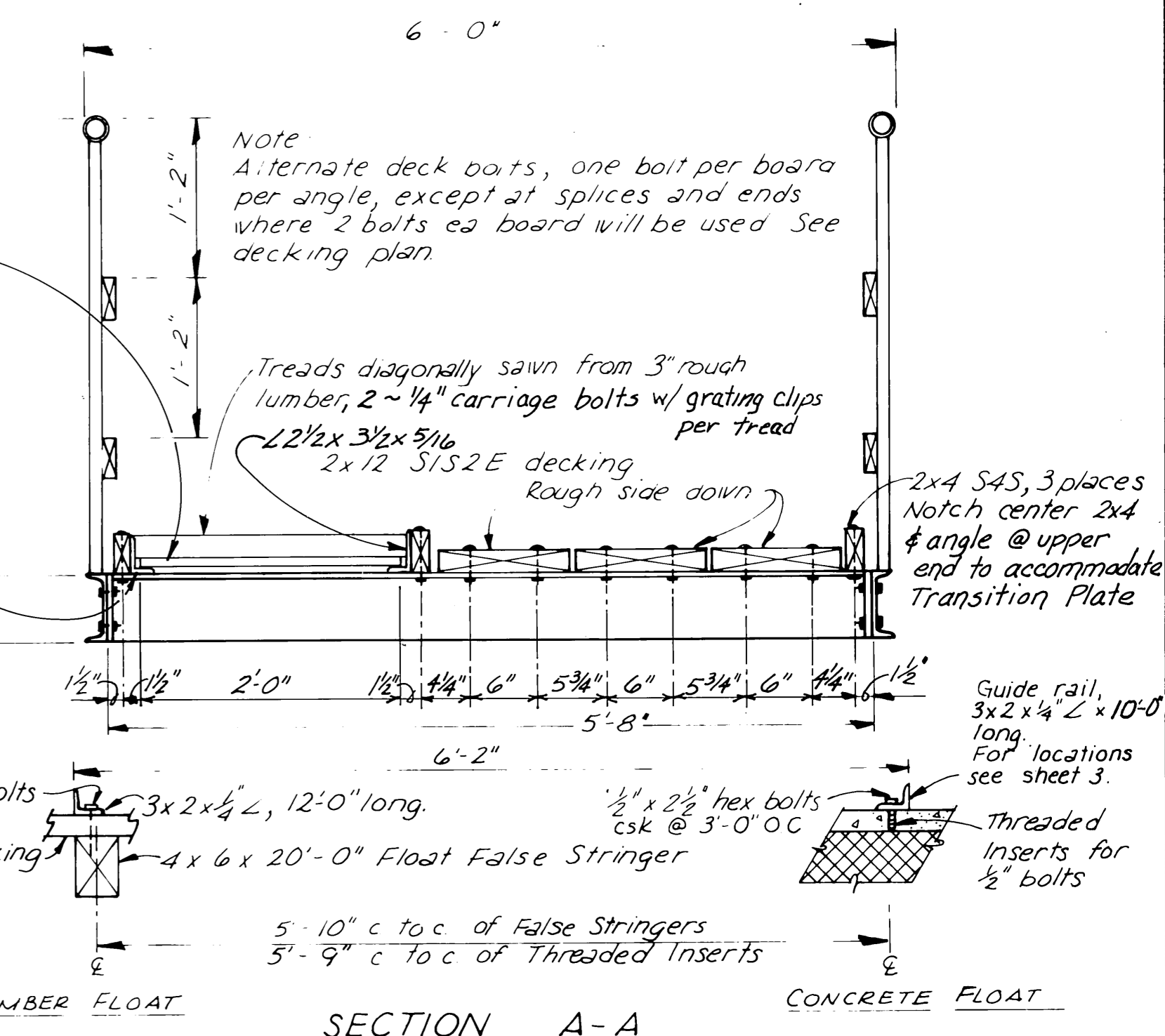
Division of Harbor Design and Construction



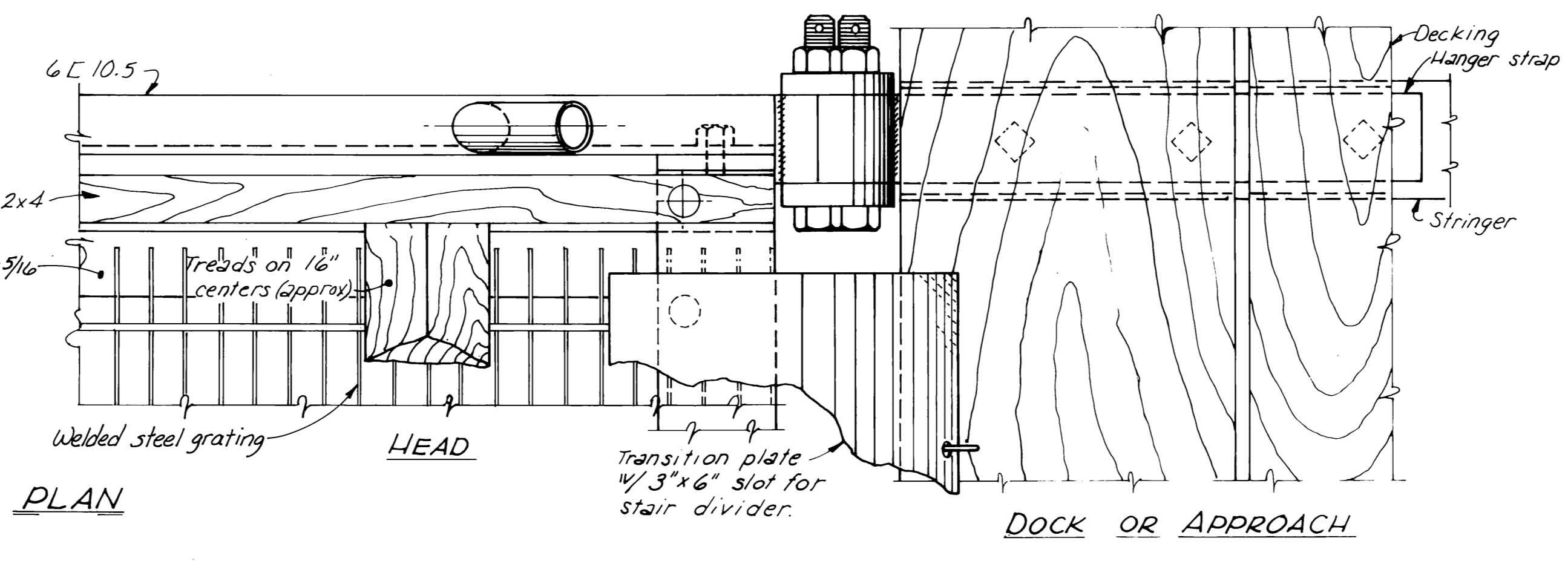
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
SKAGWAY		ALASKA	
<b>TYPICAL 16'-0" APPROACH CONSTRUCTION DETAILS</b>			
SCALE AS NOTED	SURVEYED	APPROVED	
DESIGNED	DRAWN	Chief of Design	
CHECKED	DATE		
PROJECT NUMBER	K 78147	SHEET 22 OF 28	



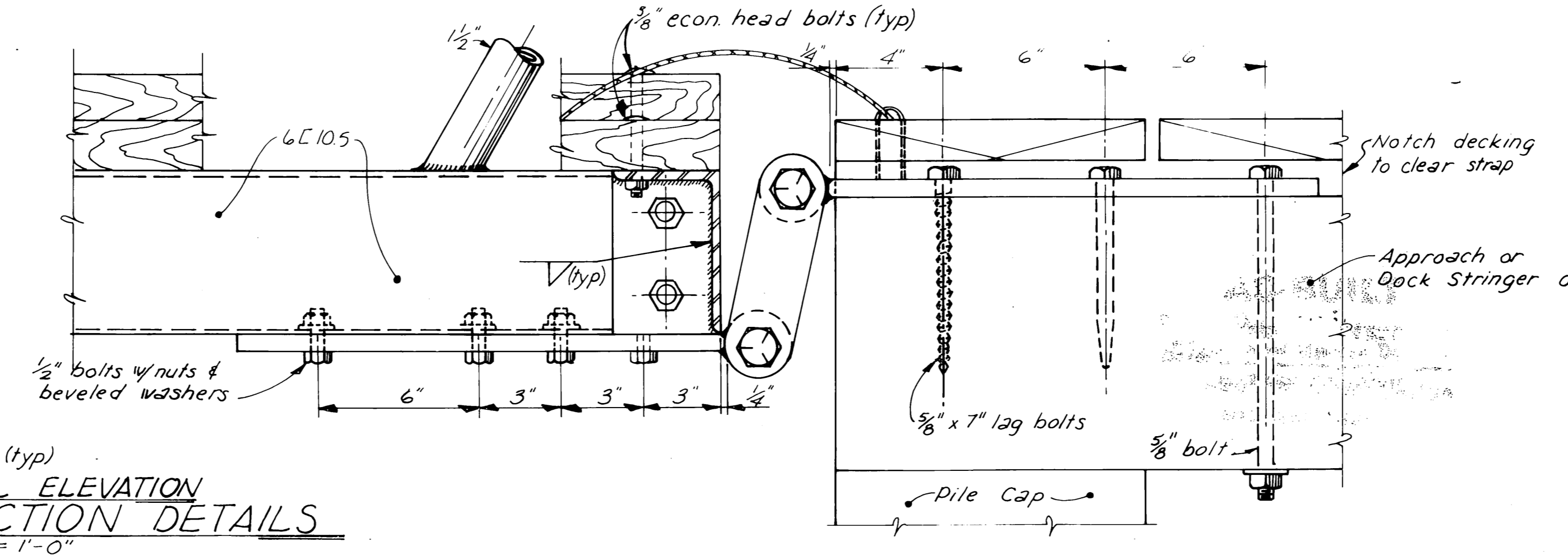
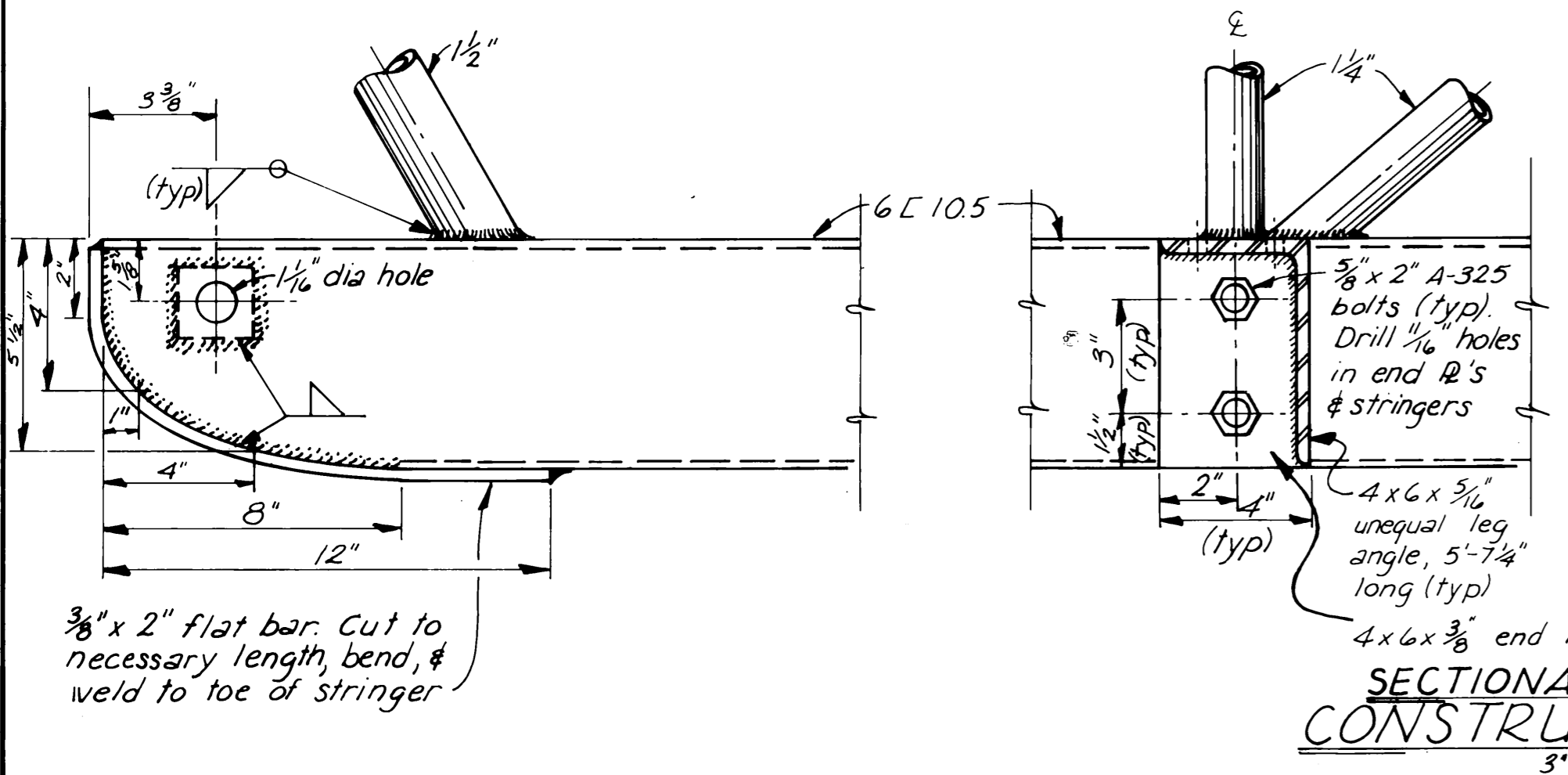
Welded serrated steel grating w/ 3/4" x 1/8" bearing bars @ 1 3/16" oc. & 1/4" crossbars @ 4" oc. Hot dip galvanize. Secure to angle with std. grating clips 8" O.C.



NOTE: FOR TOE TRANSITION PIECE SEE SH.B (24 OF 27)



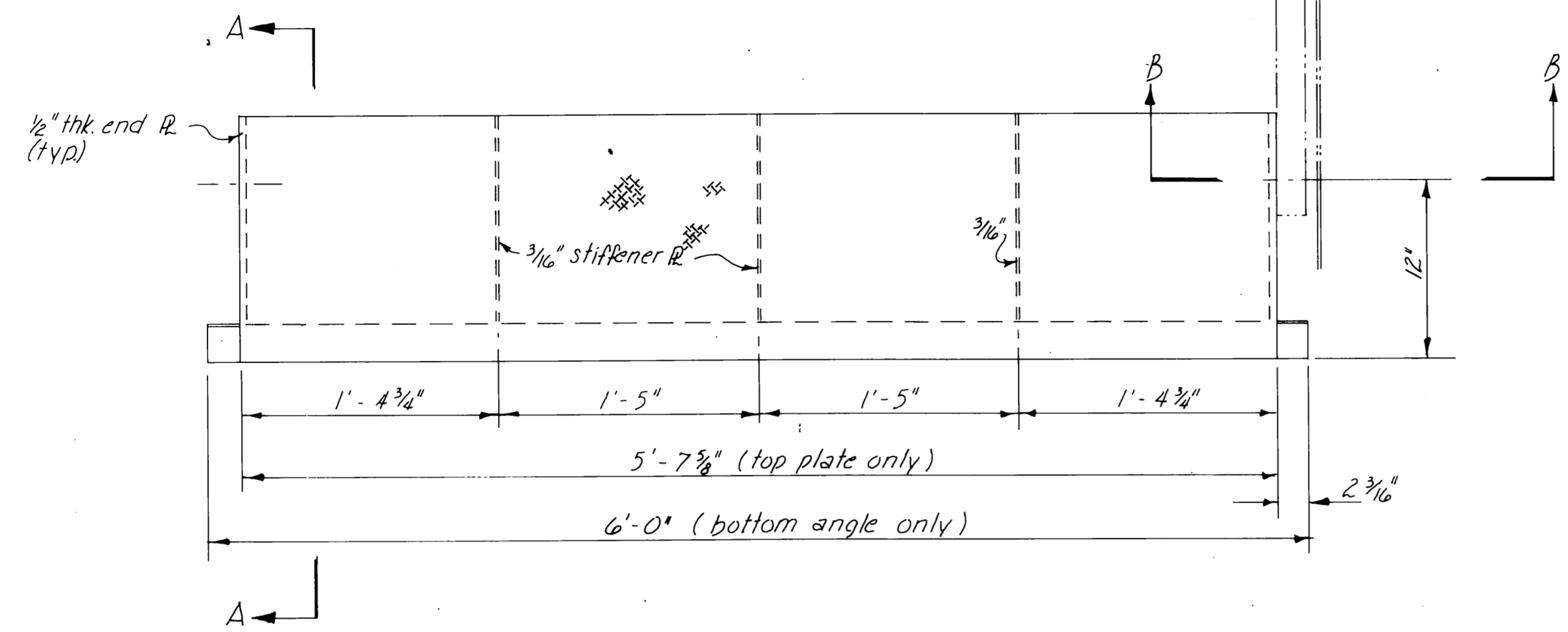
- NOTES:**
- 1 All seamless pipe shall conform to ASTM A-53 grade B or ASTM A-50
  - 2 All channels, angles & plates shall conform to ASTM A-36
  - 3 Trusses shall be shop fabricated & assembled including hangers
  - 4 Splices shall be held to a minimum and, where necessary, shall be made in a manner that will not reduce the strength of the truss.
  - 5 No tubing or channel splices will be permitted within the middle half of the truss structure.
  - 6 Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with ASTM A-123, A-384, A-385, A-386.
  - 7 All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM A-153.
  - 8 Decking & deck spacers shall be Dense No. 1 Grade Douglas Fir, W.P. Penta or equivalent pressure treated to 0.5 lb cu ft retention and shall be field drilled to match shop drilled holes in transverse members.
  - 9 Design Live Load - 35 psf on gangway or 85 psf on treaded walkway



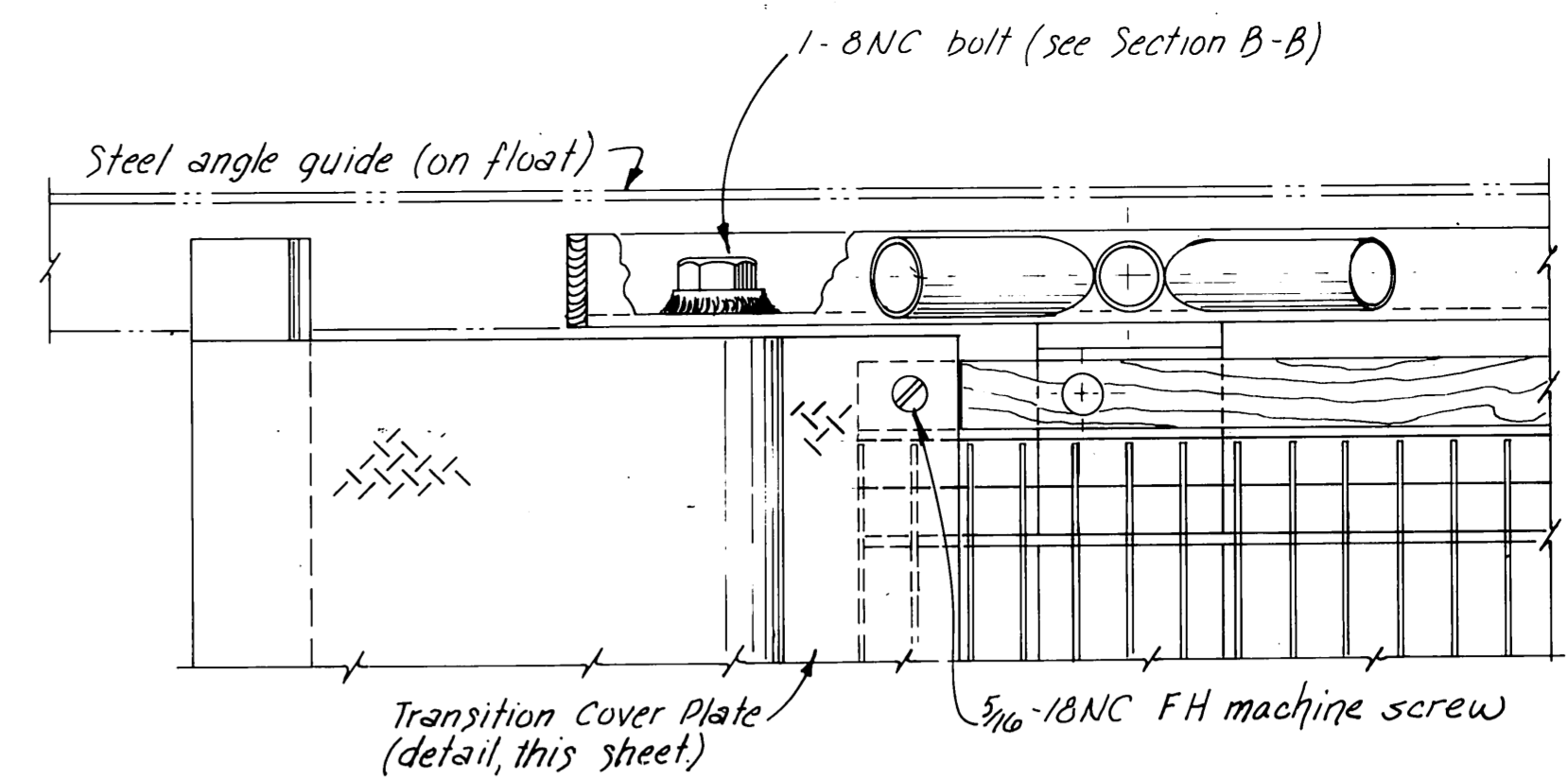
**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction



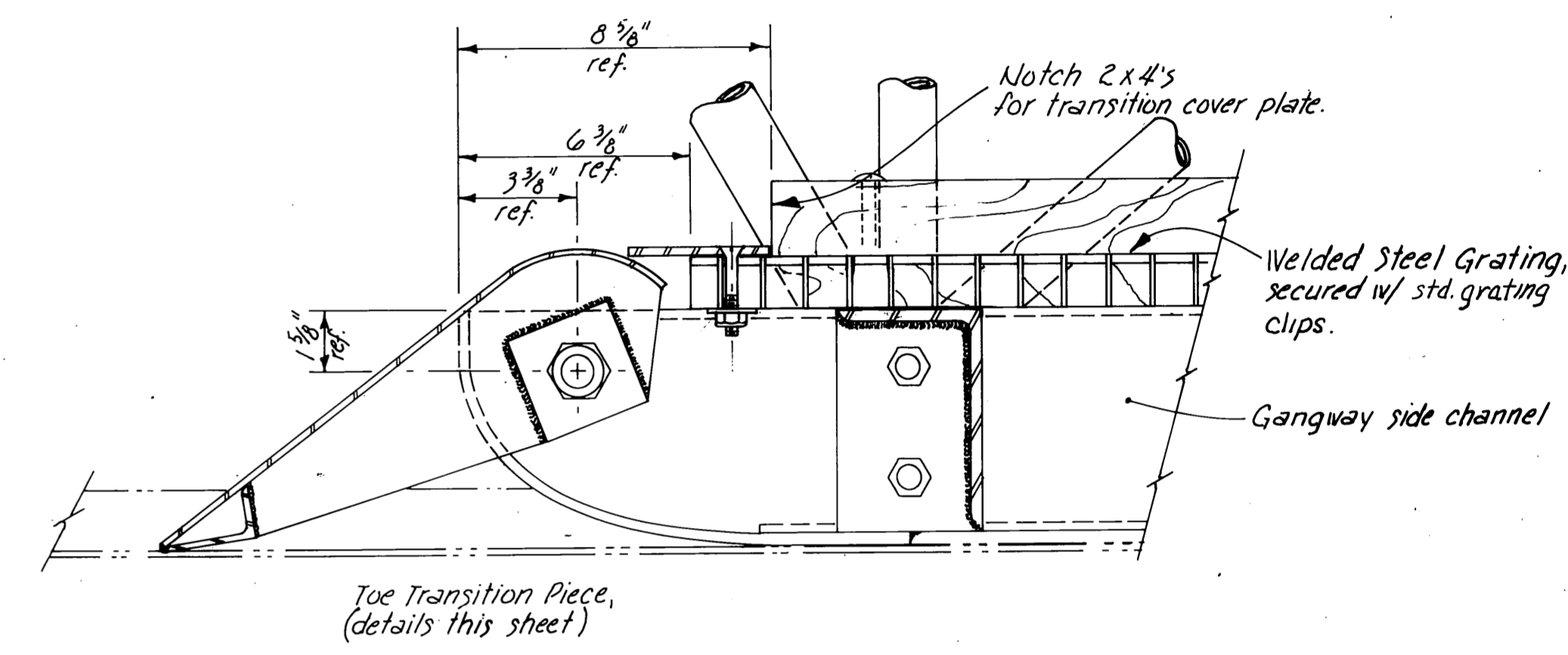
DO NOT SCALE THIS DRAWING USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
JKAGWAY		ALASKA
60' STEEL GANGWAY CONSTRUCTION DETAILS (SHEET A)		
SCALE As shown	SURVEYED	APPROVED
DESIGNED JT/RB	DRAWN TM	DATE 6-1-79
CHECKED	DATE	Chief of Design
PROJECT NUMBER K 78147	SHEET 23 OF 28	



PLAN VIEW  
1/2" = 1'-0"

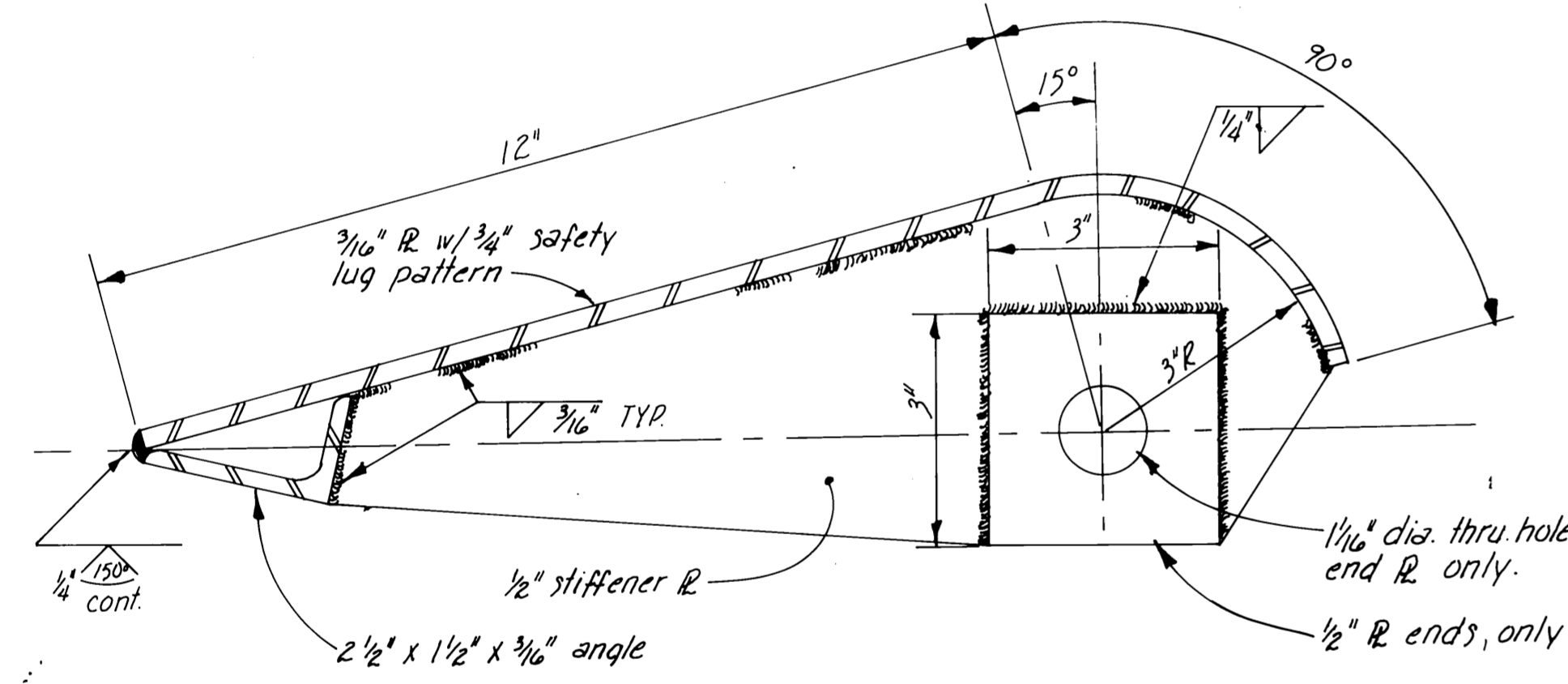


PLAN  
3" = 1'-0"

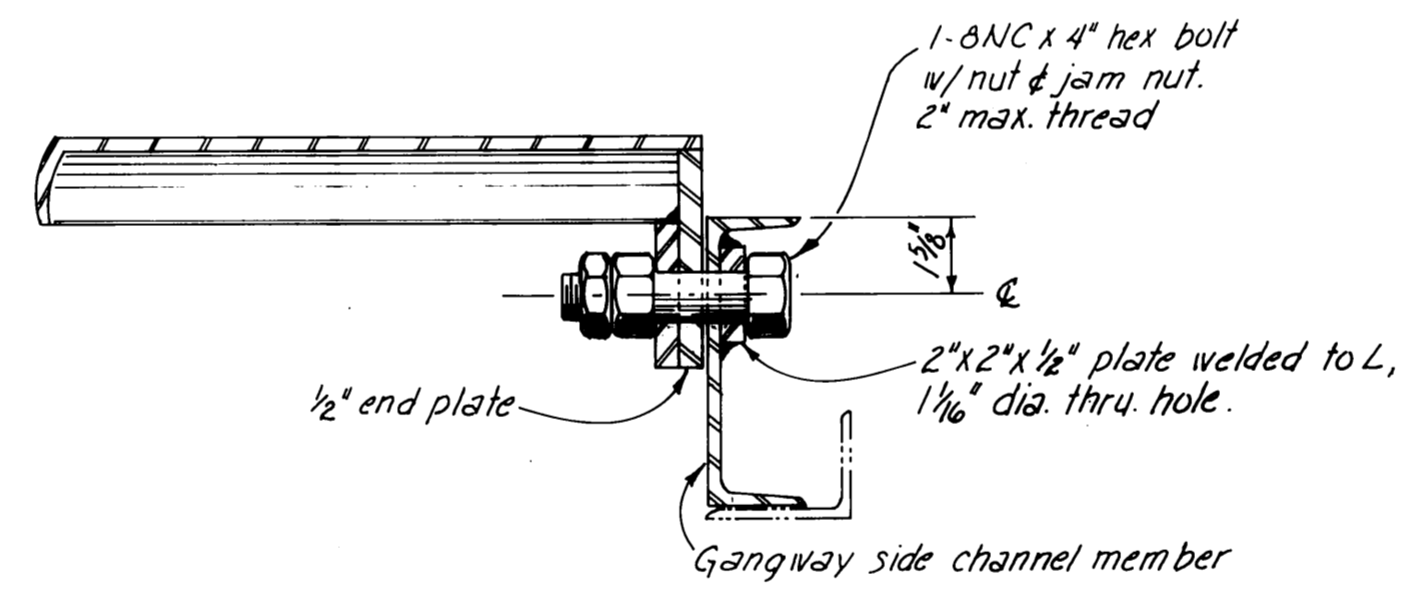


SECTIONAL ELEVATION  
3" = 1'-0"

Assembly Detail

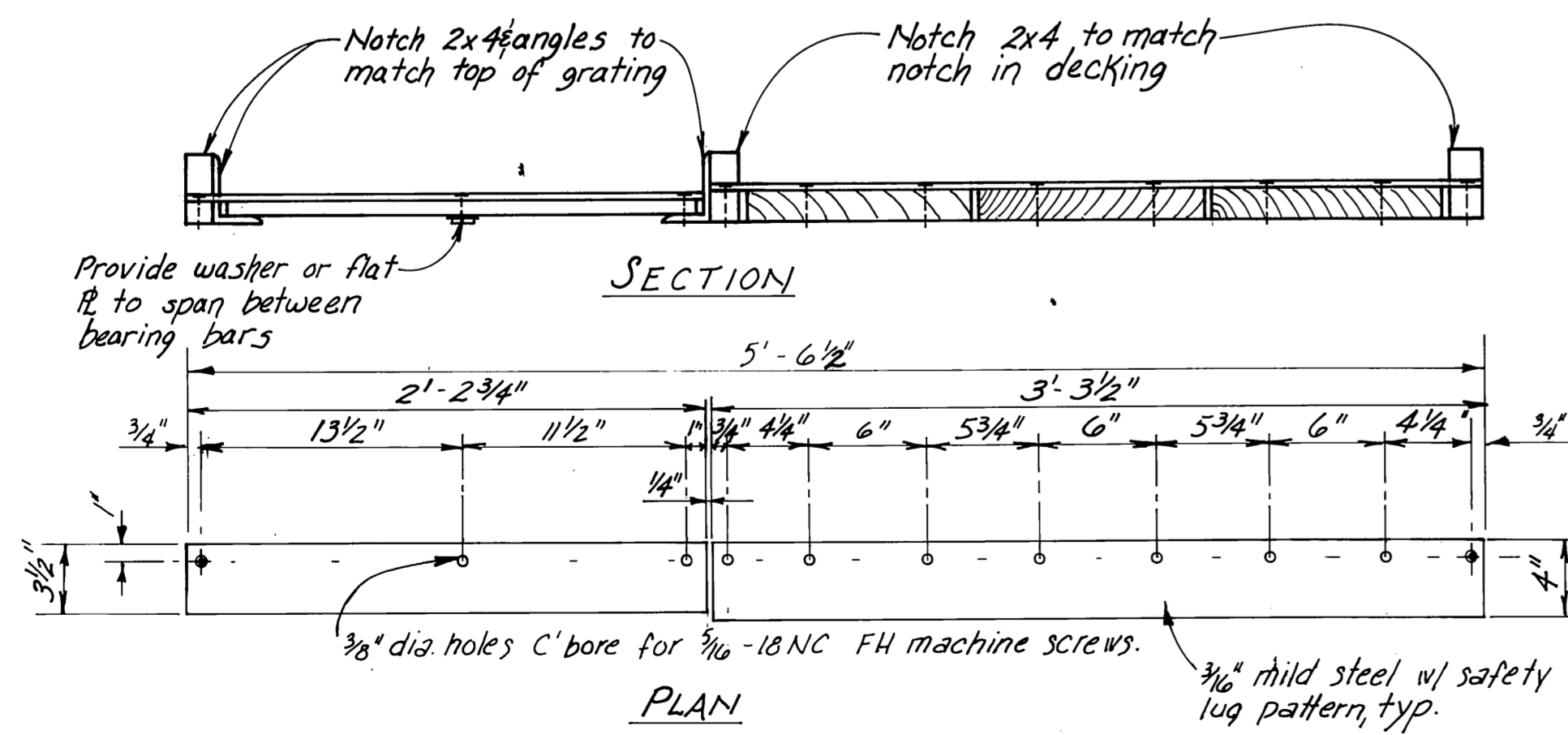


SECTION A-A  
HALF SIZE



SECTION B-B

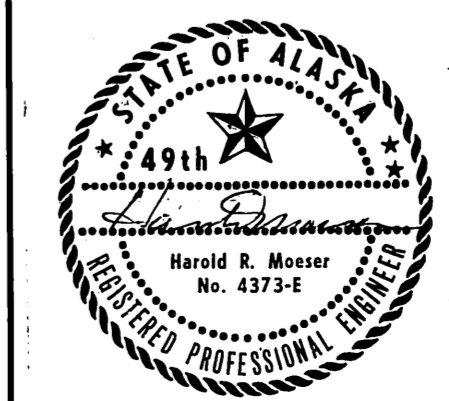
3" = 1'-0"  
(Typ. ea. end)



PLAN  
TRANSITION COVER PLATES  
1/2" = 1'-0"

Note:  
For notes pertaining to fabrication and galvanizing, see Sheet A.

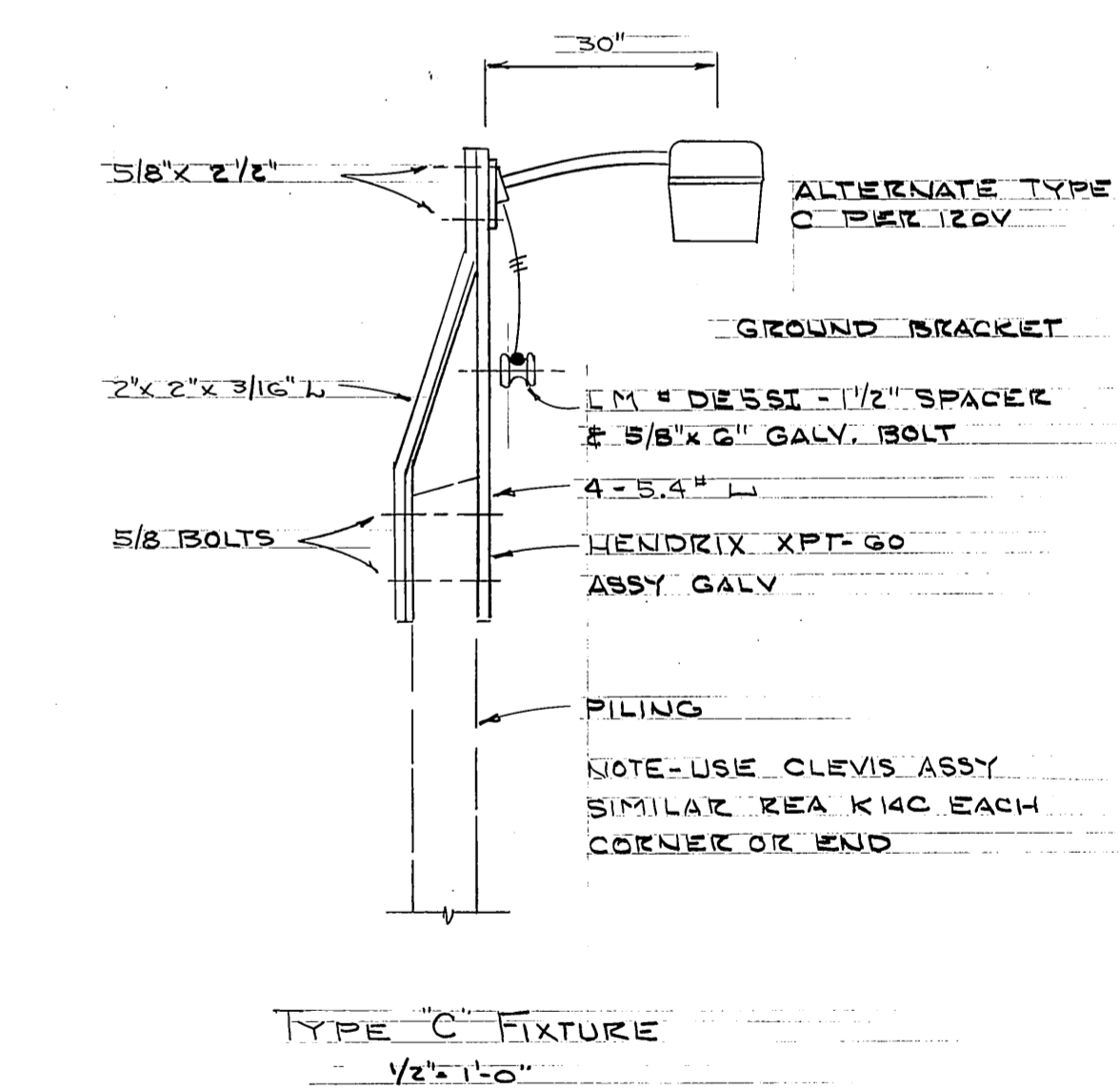
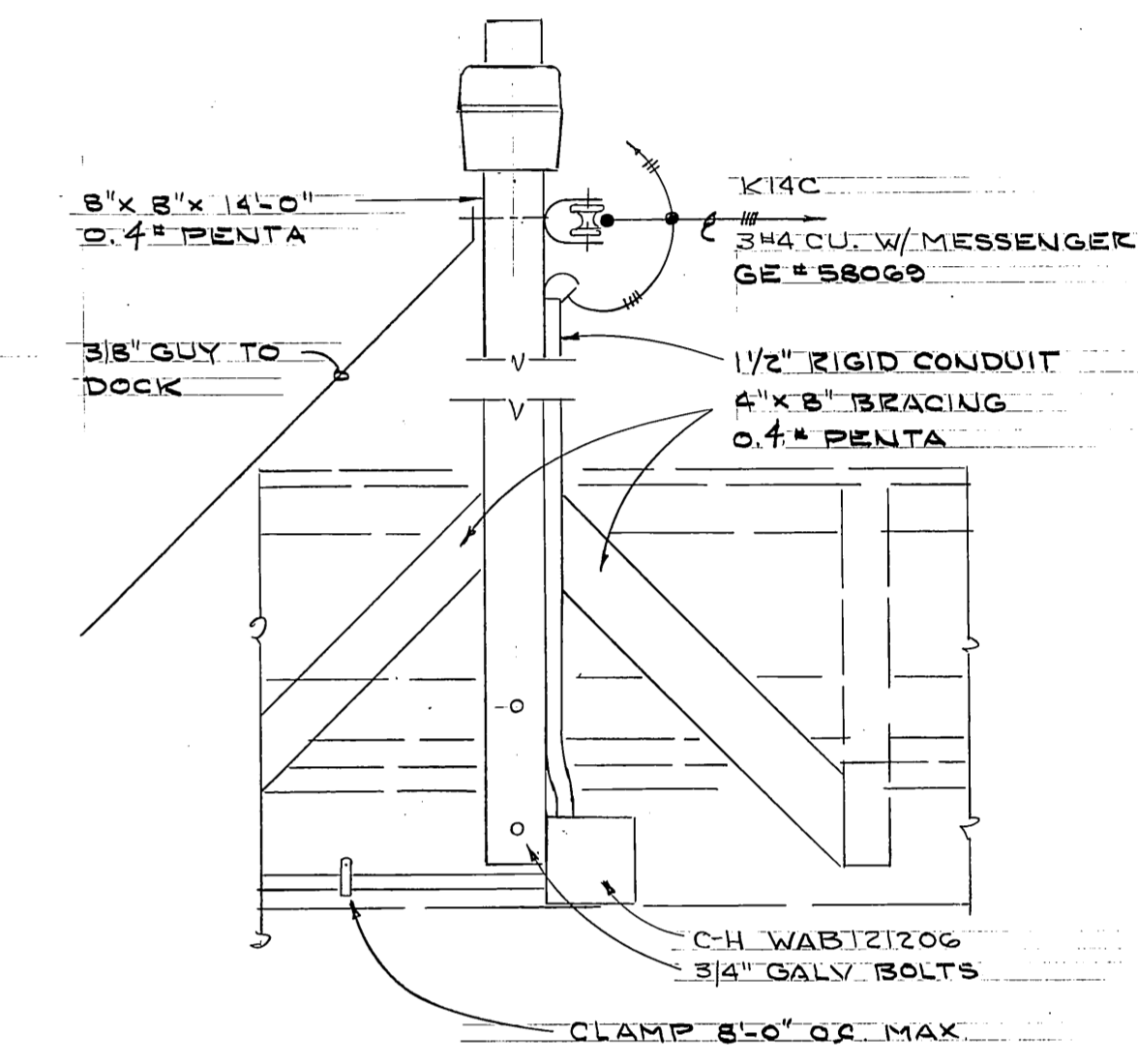
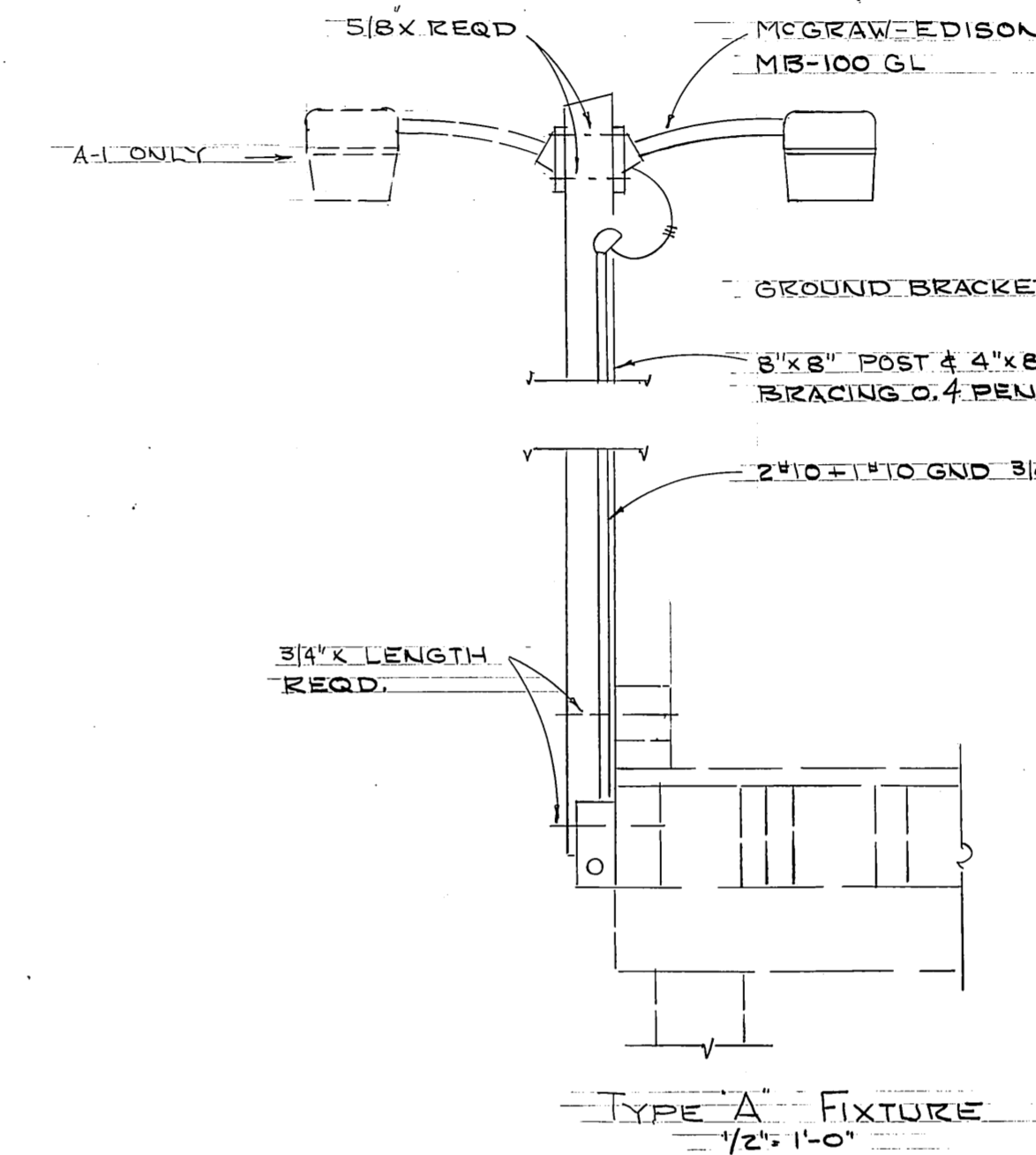
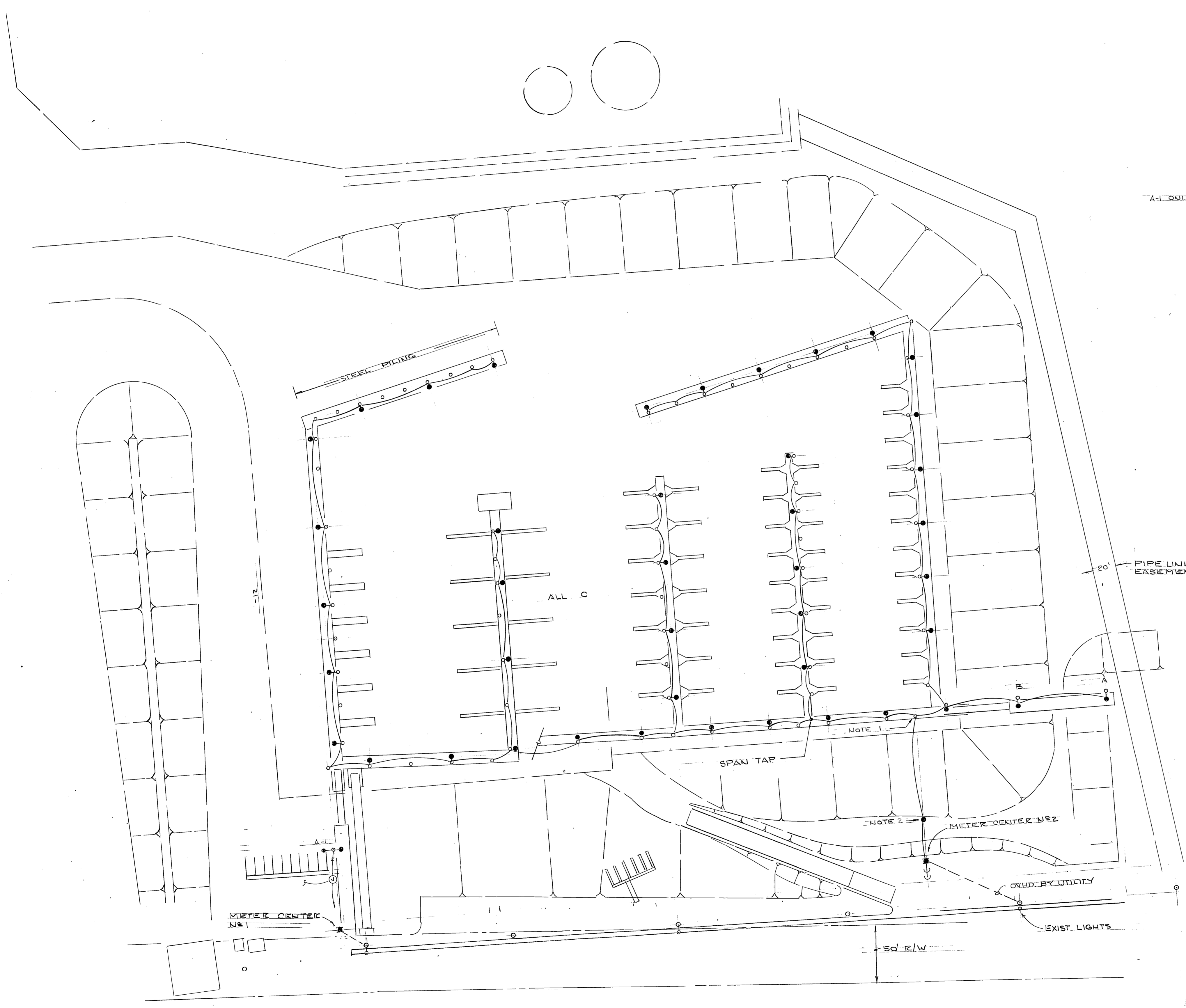
**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction



DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DIVISION OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
SKAGWAY		ALASKA
TYPICAL STEEL GANGWAY (SHEET B)		
SCALE: As Noted	SURVEYED: JDB	APPROVED: Robert P. Beck
DESIGNED: RB/DW	DRAWN: GRF	CHIEF OF DESIGN
CHECKED: RB/DW	DATE: Sep. 1979	
PROJECT NUMBER: K78147	SHEET: 24	OF 28

FIXTURE SCHEDULE			
TYPE	MFG	W	REMARKS
A	WESTINGHOUSE VSP-SDMK-1JA	70W HPS	SEE DETAIL
B	"	"	"
C	"	VSP-SDMK-5JA	"

ALL BALLASTS FOR -20°F & REGULATED OUTPUT WITH POWER FACTOR OF 90% OR BETTER

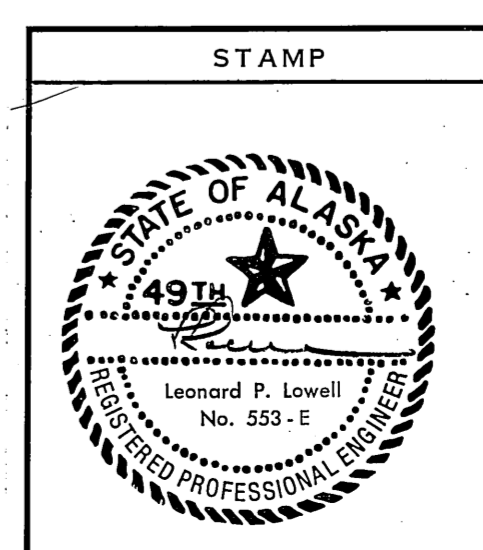


- NOTE 1 PILING BY CONTRACTOR CO. ELEV. +38'-0"
- NOTE 2 PILING BY CONTRACTOR CO. ELEV. +52'
- NOTE 3 ON STEEL PILING WELD OR BOLT BRACKET TO PILING SEE SHEET 25 FOR LOCATION

REVISED 1-18-80

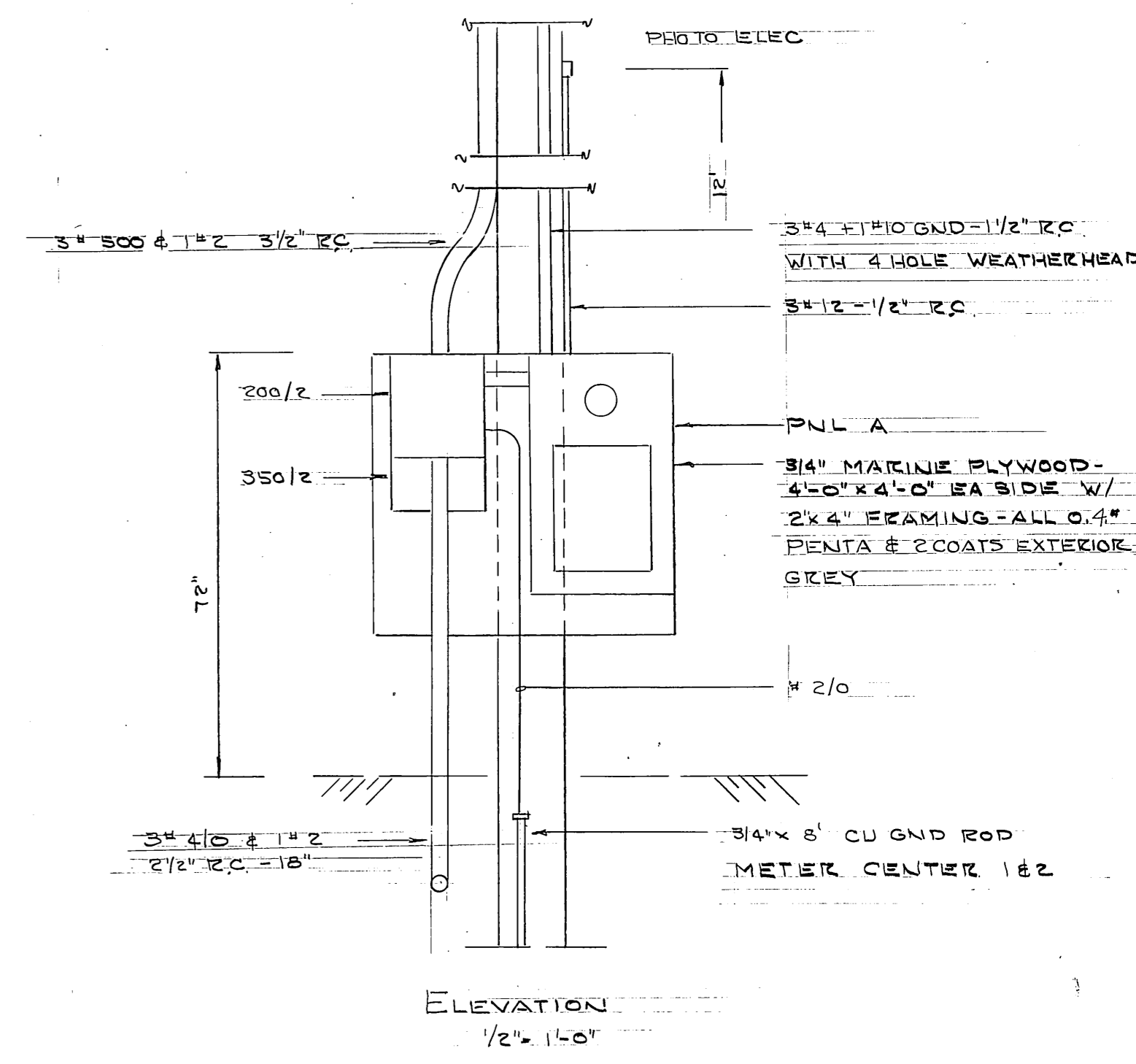
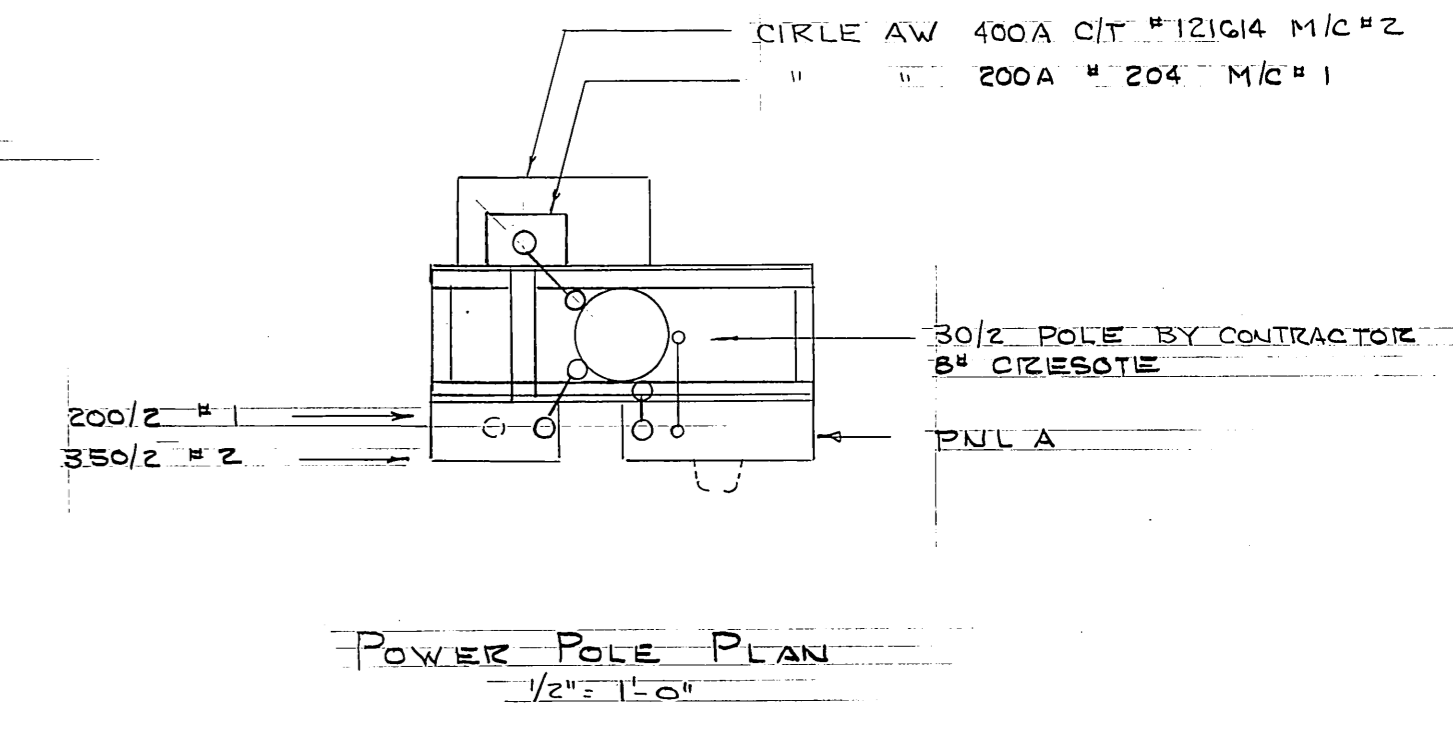
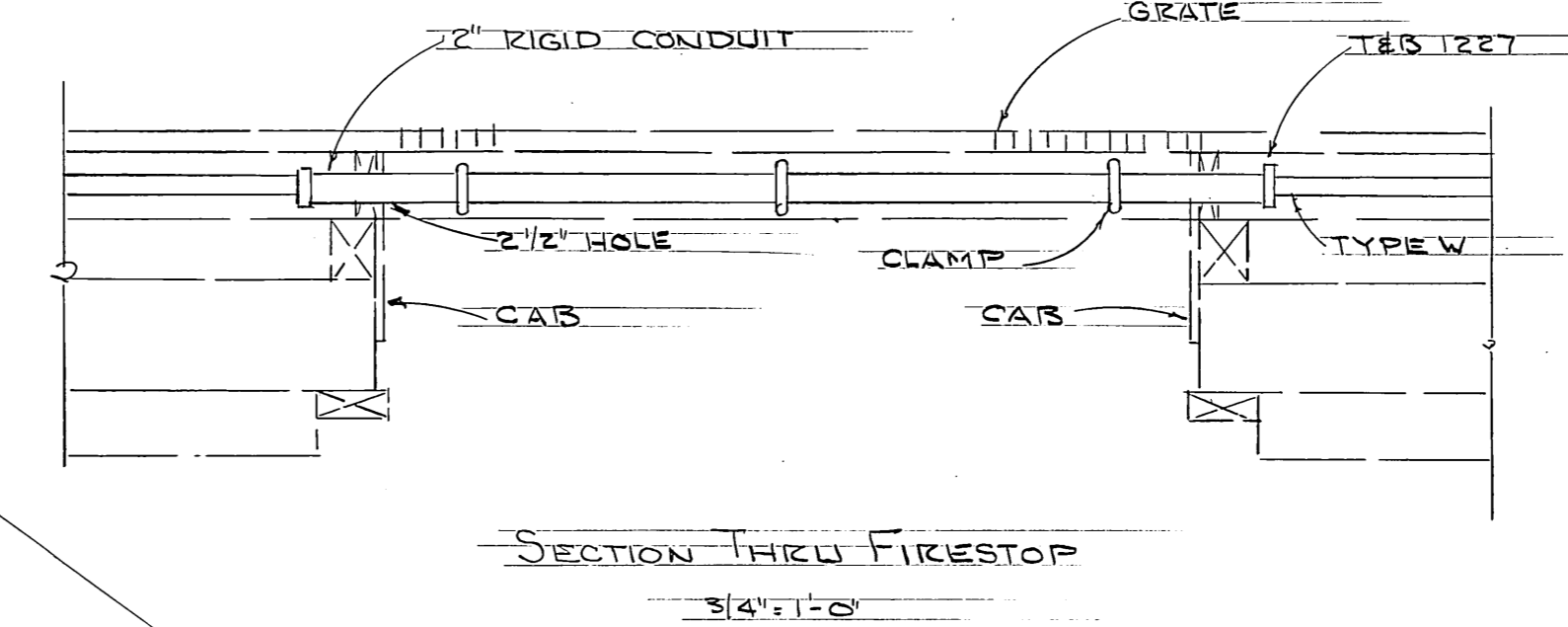
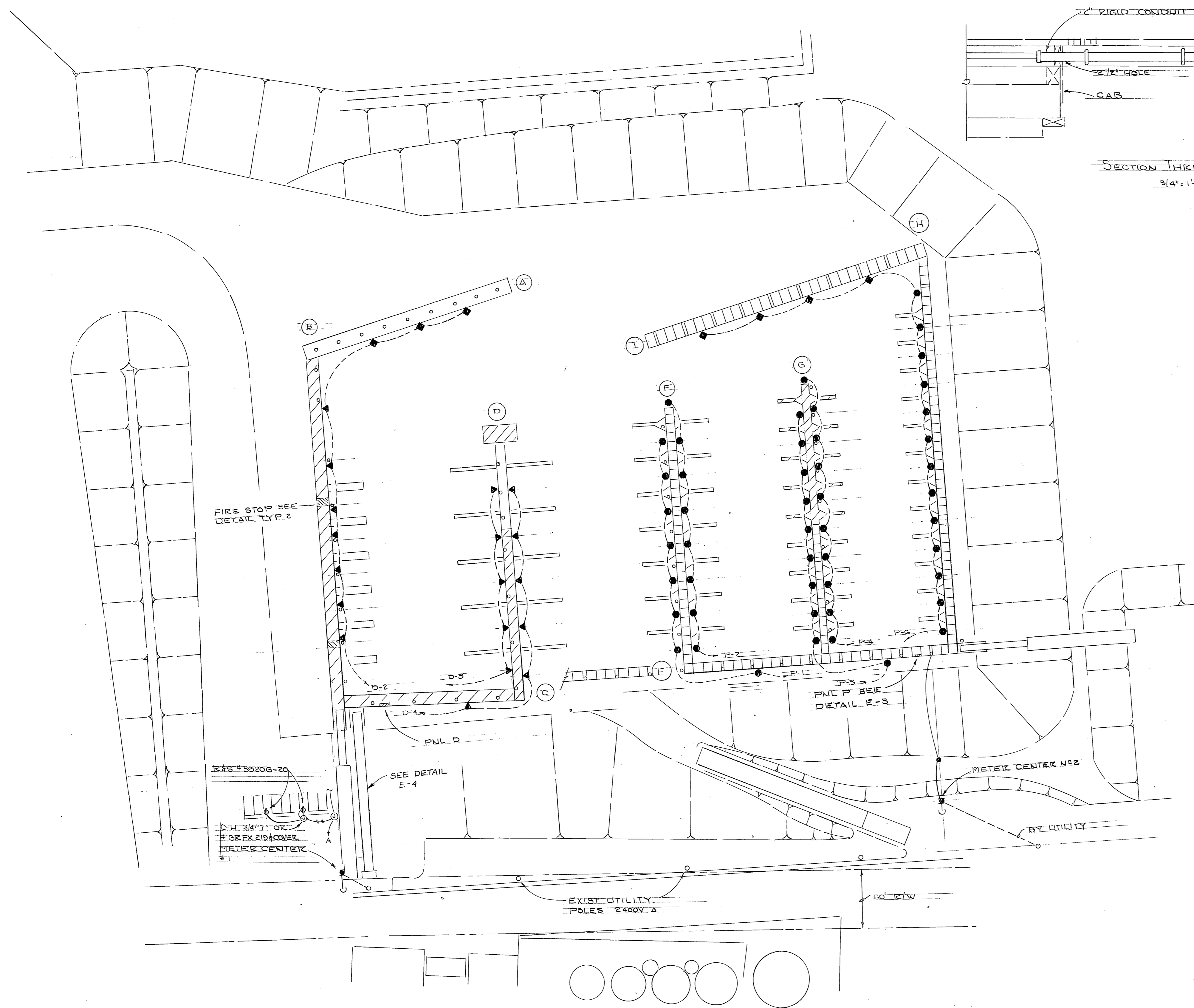
LIGHTING PLAN  
1" = 50'

AS-BUILT  
Date: 3-9-81  
Division of Harbor Design and Construction



STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
SKAGWAY		ALASKA
<u>LIGHTING PLAN</u>		
SCALE NOTED	SURVEYED	APPROVED
DESIGNED	DRAWN LPL	Checked by J. S. Sch Chief of Design
CHECKED	DATE MAY 79	
PROJECT NUMBER	K78147	SHEET 25 OF 28

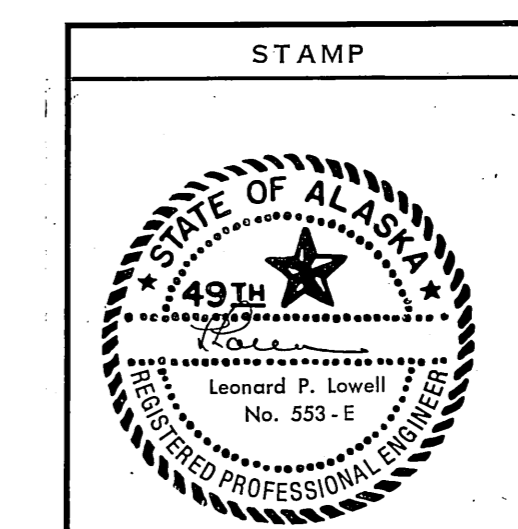
E-1



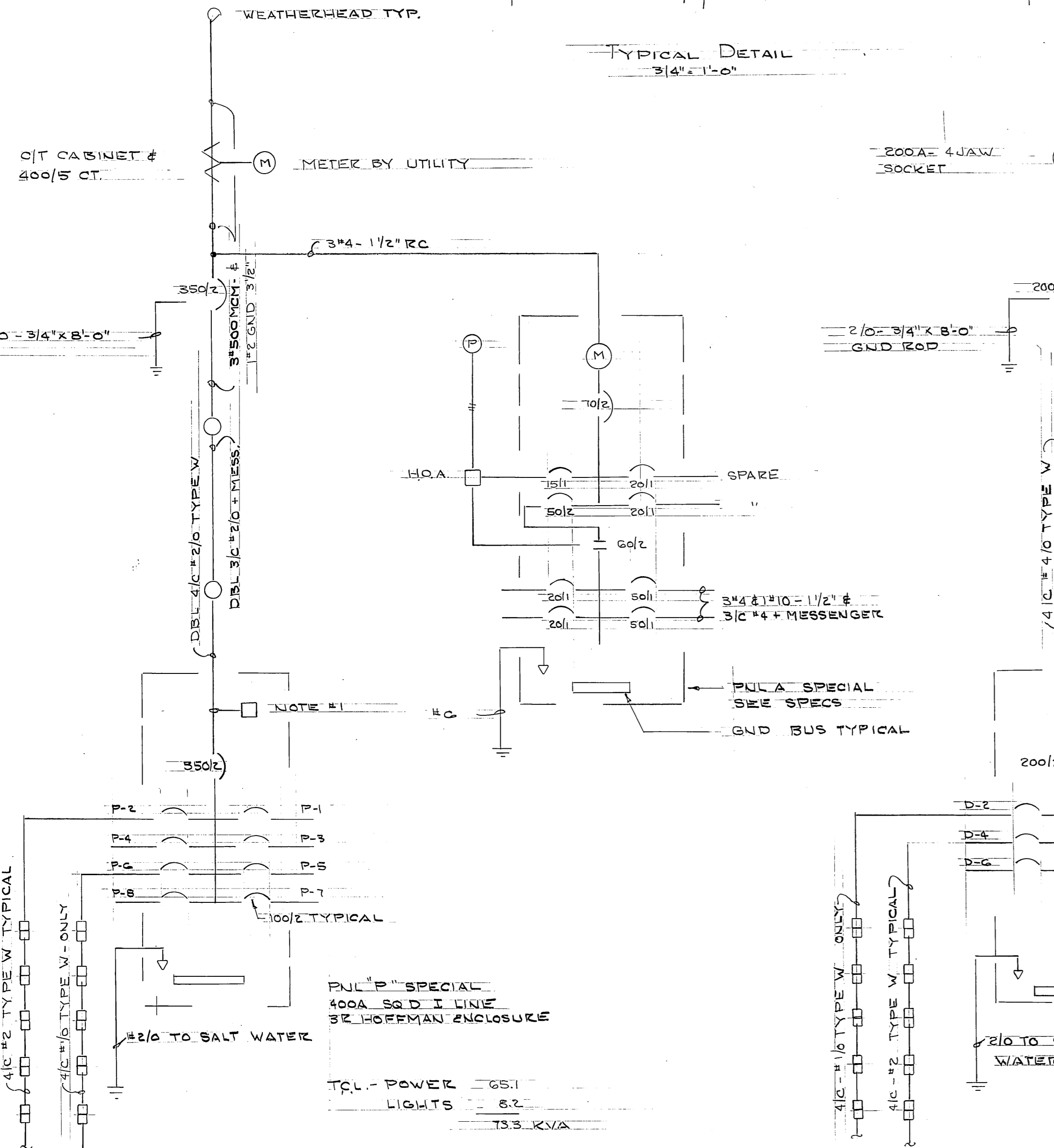
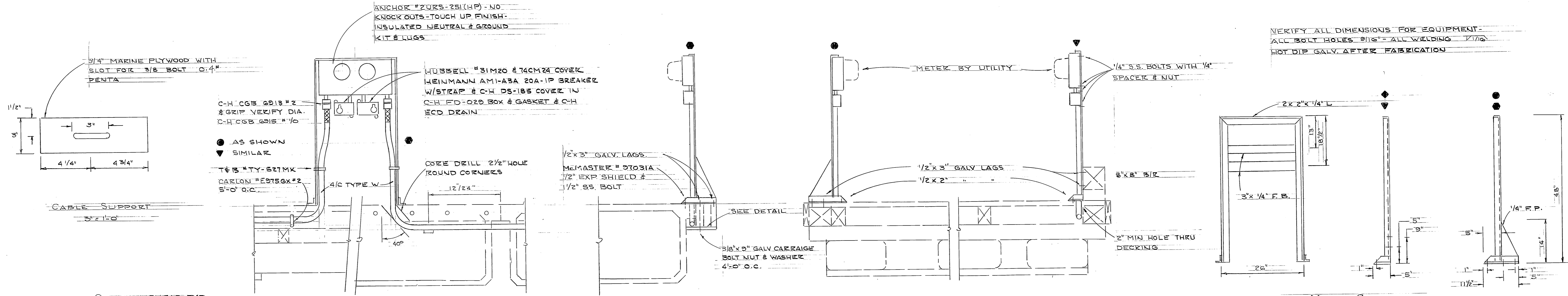
- SYMBOLS**
- ▭ NEW WOOD FLOATS
  - ▭ NEW CONCRETE "
  - ▨ EXISTING WOOD FLOATS
  - ▶ DUAL POWER OUTLET BULL RAIL WOOD FLOAT
  - " " " NO " " " CONC "
  - " " " NO " " " WOOD "
  - ◆ " " " BULL RAIL CONC "
  - LIGHT FIXTURE
  - 4/C #2 TYPE W BELOW FLOAT
  - WIRING OVERHEAD OR IN CONDUIT
  - ⊕ JUNCTION
  - ⊙ PHOTO-ELECTRIC

POWER PLAN  
1" = 50'

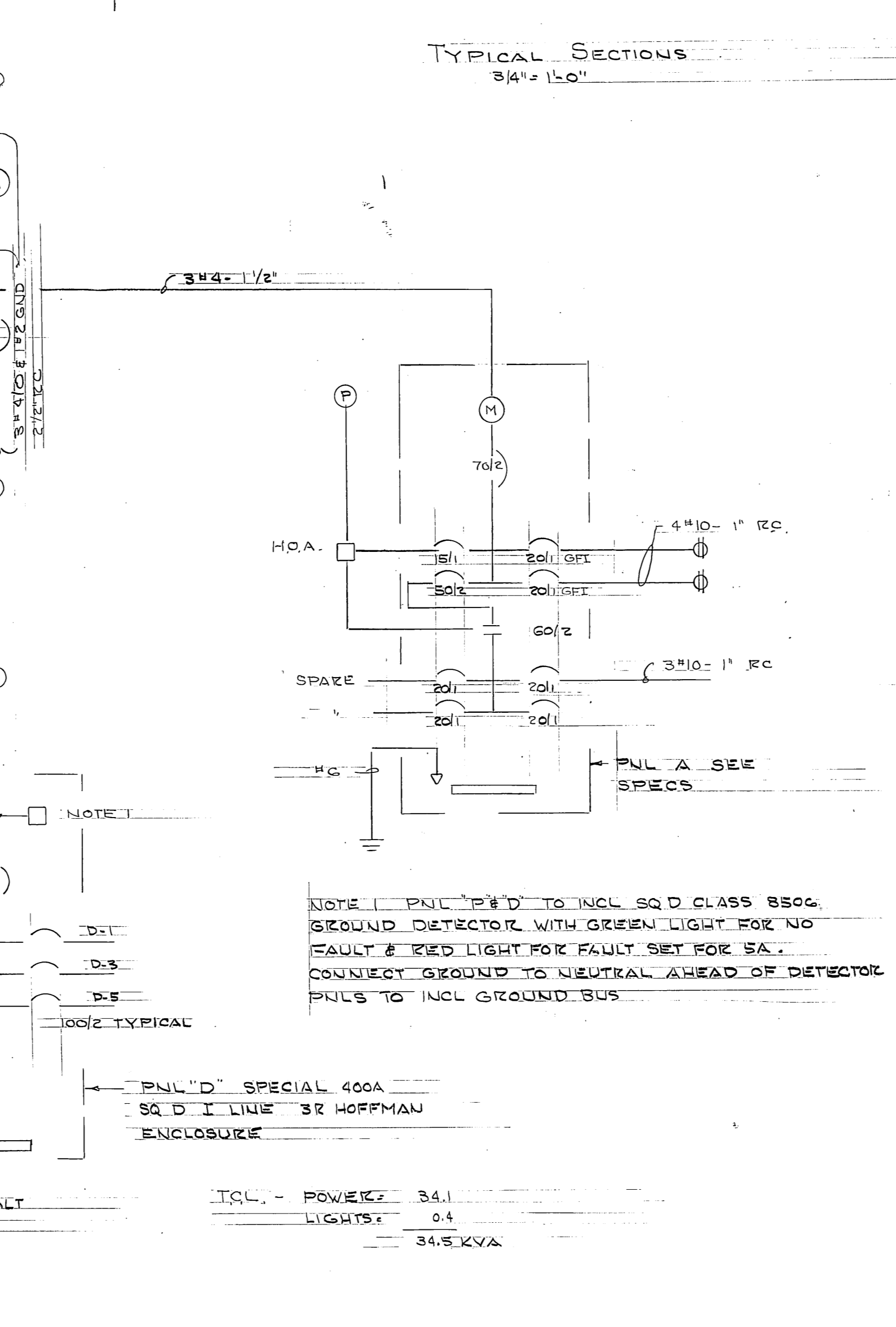
**AS-BUILT**  
Date: 3-7-81  
Division of Harbor Design and Construction



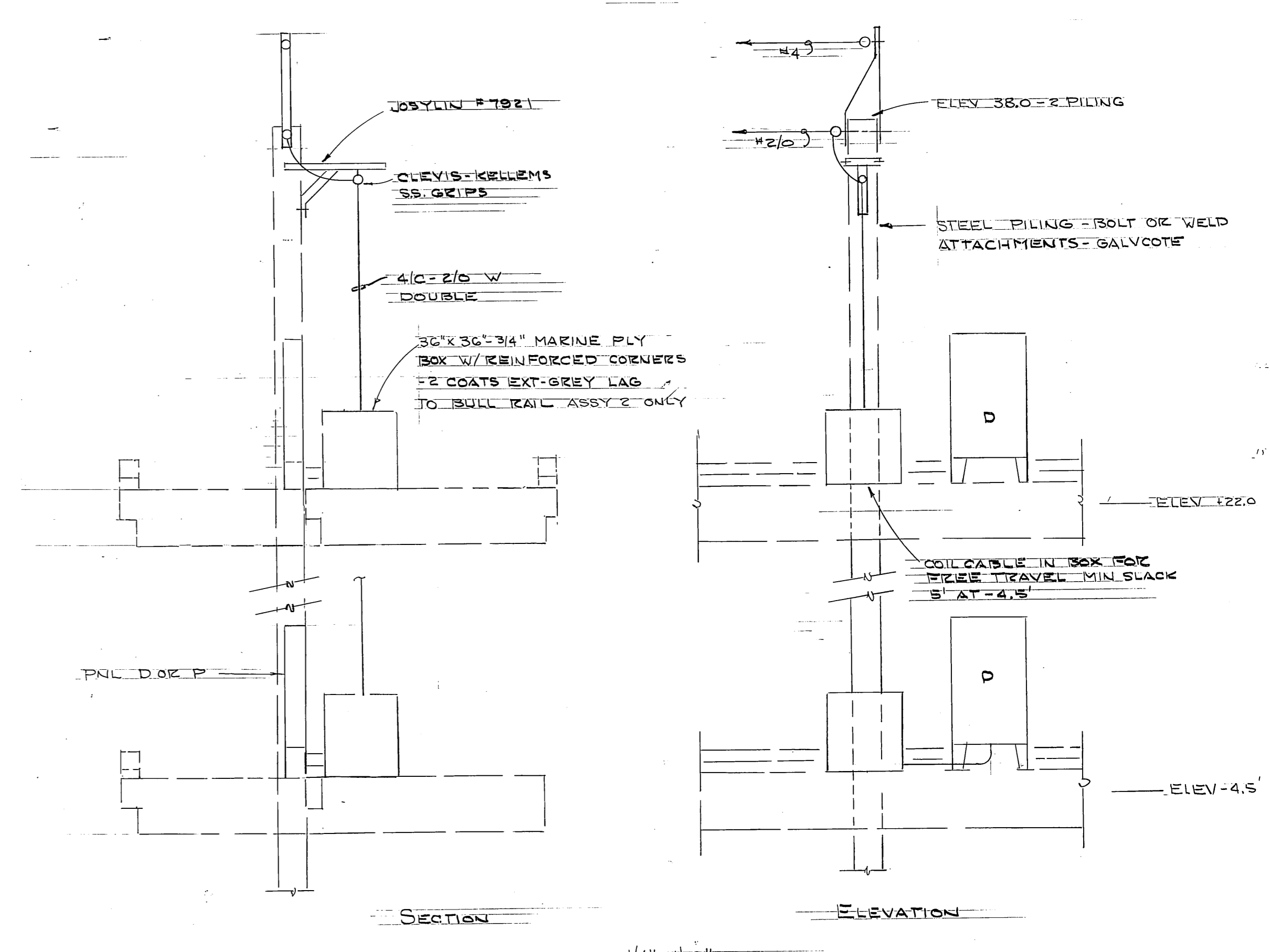
STAMP			DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			STATE OF ALASKA ALASKA		
SKAGWAY			POWER PLAN		
SCALE NOTED	SURVEYED	APPROVED			
DESIGNED	DRAWN LPL	 Chief of Design			
CHECKED	DATE MAY 79				
PROJECT NUMBER	K78147	SHEET	26	OF	28



ONE LINE DIAGRAM No. 2  
NO SCALE



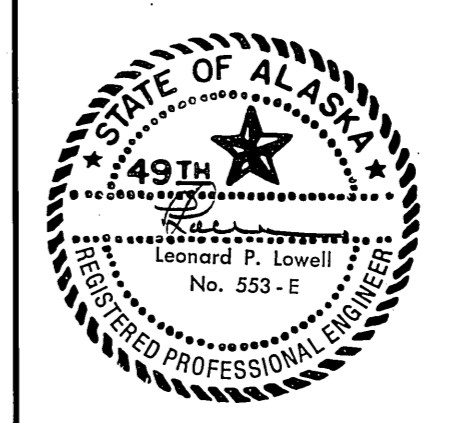
ONE LINE DIAGRAM No. 1  
NO SCALE



REVISED 1/18/80

E-3

**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction



DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR, DESIGN AND CONSTRUCTION		
SKAGWAY		ALASKA
MISCELLANEOUS ELECTRICAL DETAILS		
SCALE NOTED	SURVEYED	APPROVED
DESIGNED	DRAWN: LPL	
CHECKED	DATE: MAY 79	
PROJECT NUMBER: K78147	SHEET 27 OF 28	

TCL - POWER 65.1  
LIGHTS 8.2  
TSS KVA

TCL - POWER 34.1  
LIGHTS 0.4  
TSS KVA

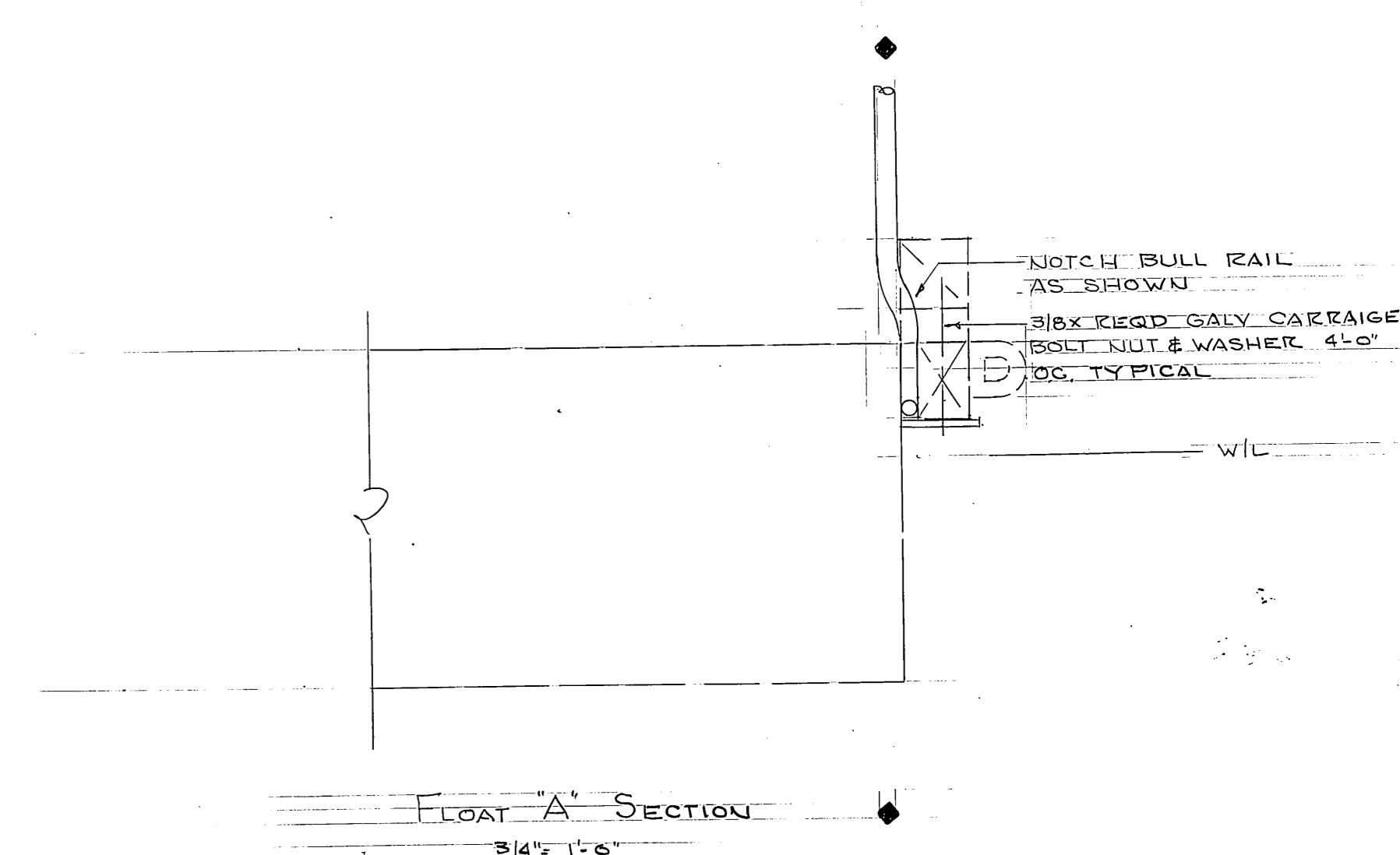
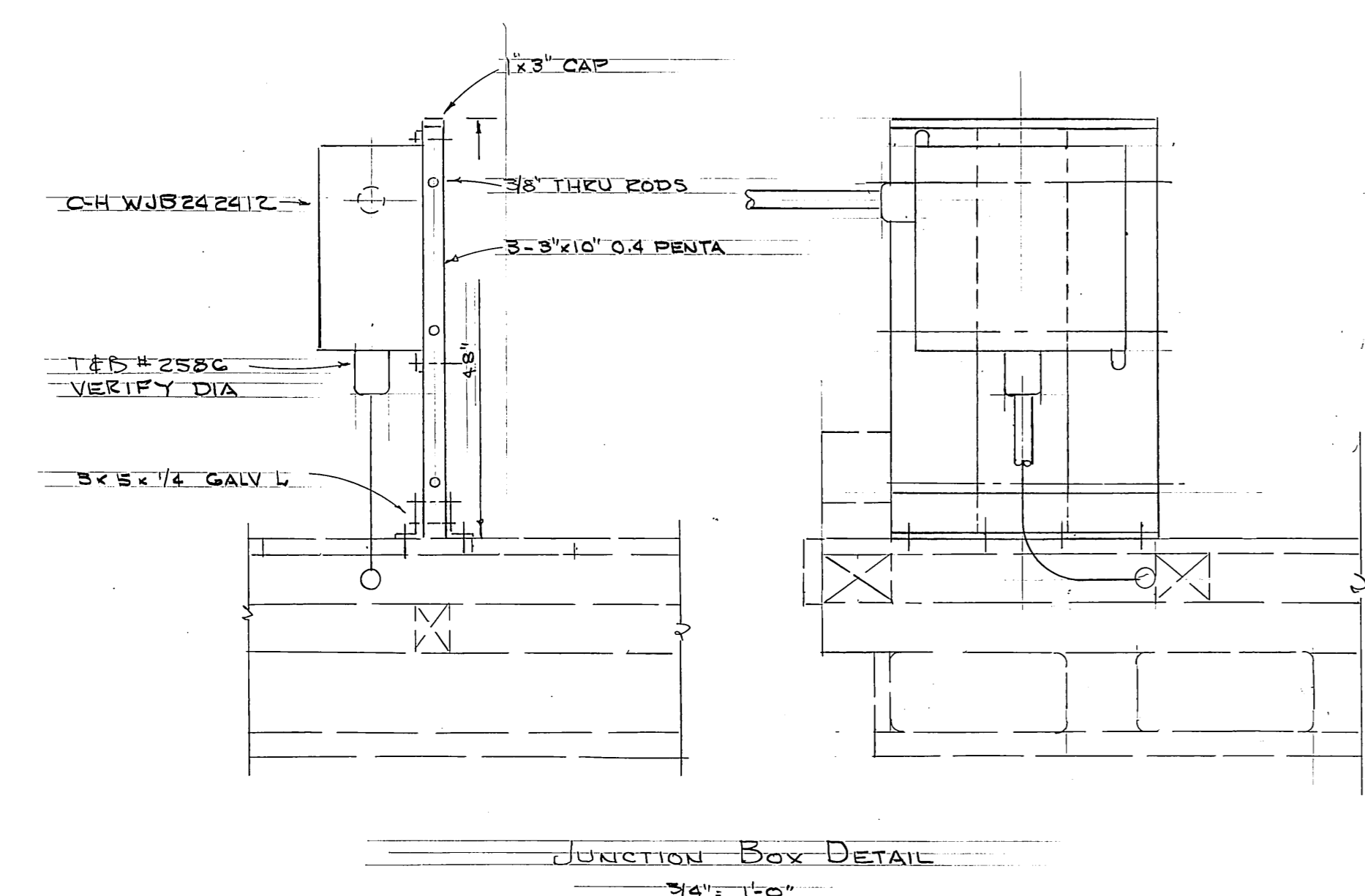
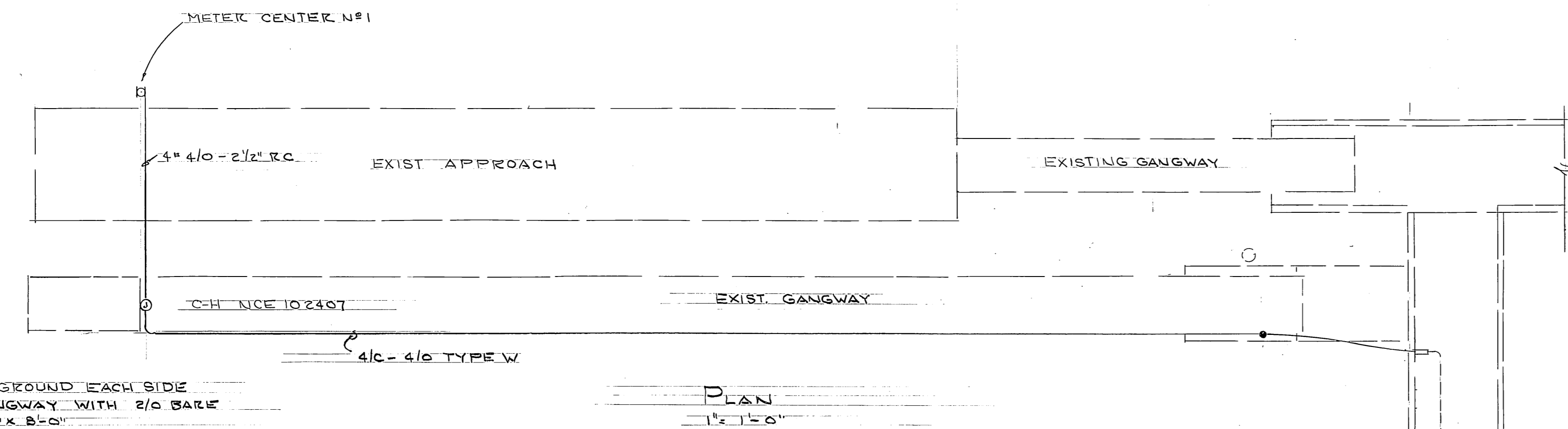
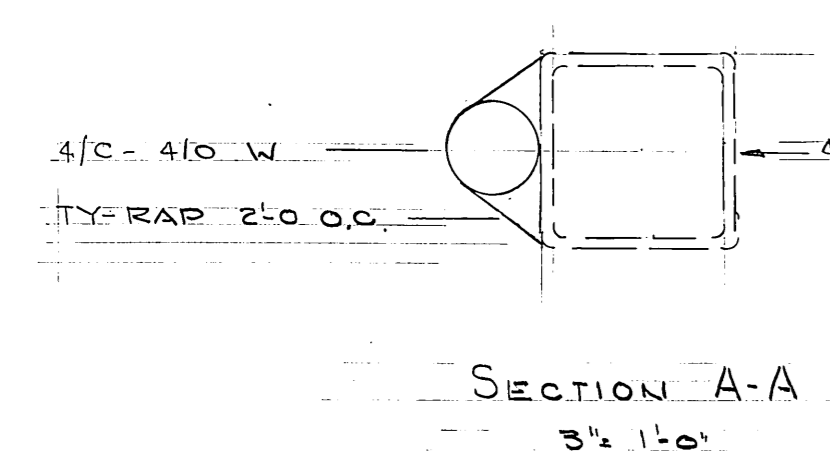
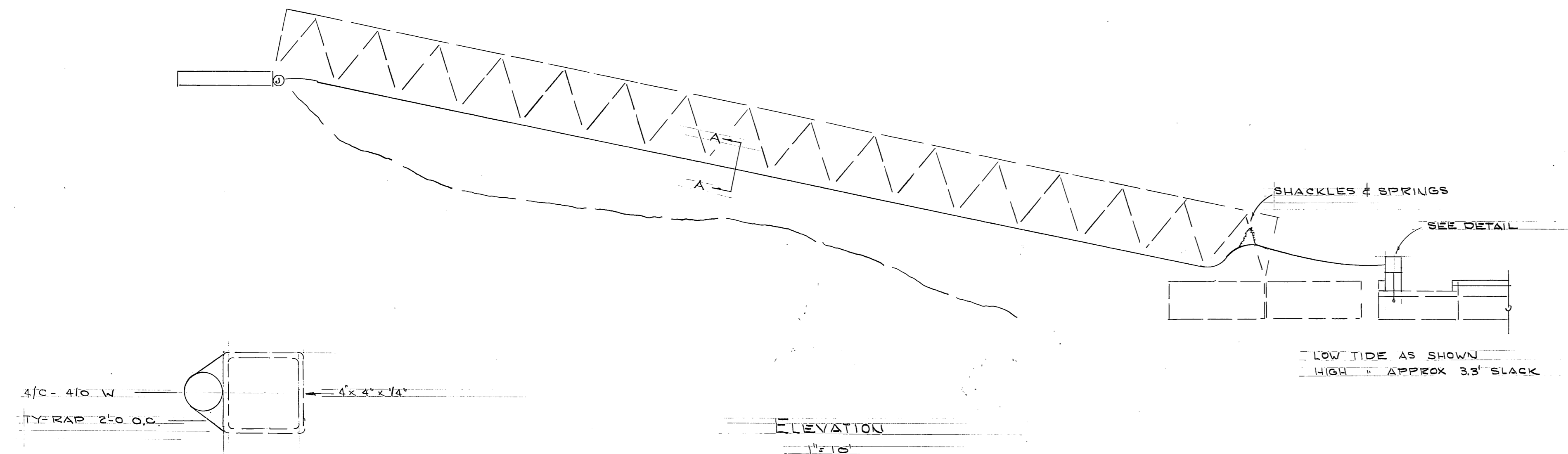
NOTE: PNL 'P' TO INCL SQ D CLASS 850G GROUND DETECTOR WITH GREEN LIGHT FOR NO FAULT & RED LIGHT FOR FAULT SET FOR SA. CONNECT GROUND TO NEUTRAL AHEAD OF DETECTOR PNLS TO INCL GROUND BUS

PNL 'D' SPECIAL 400A SQ D I LINE 3R HOFFMAN ENCLOSURE

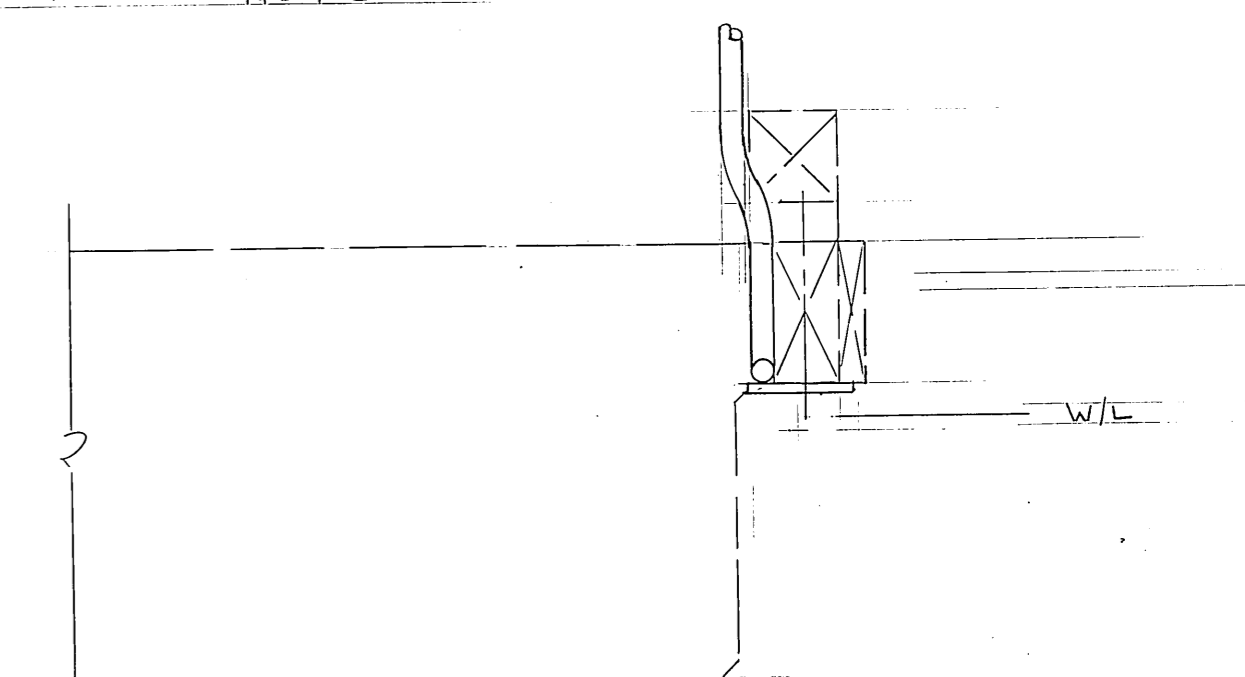
PNL 'P' SPECIAL 400A SQ D I LINE 3R HOFFMAN ENCLOSURE

SECTION

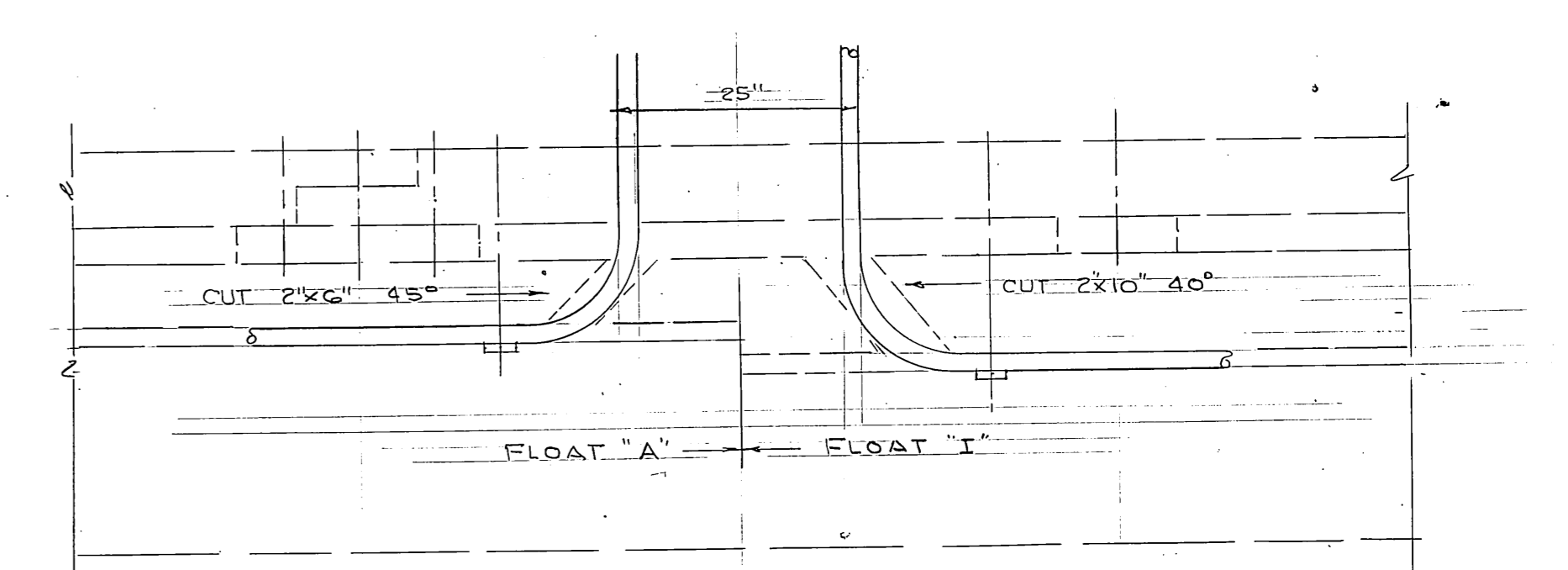
ELEVATION



FLOAT "A" SECTION  
3'4" x 1'-0"



FLOAT "I" SECTION  
3'4" x 1'-0"

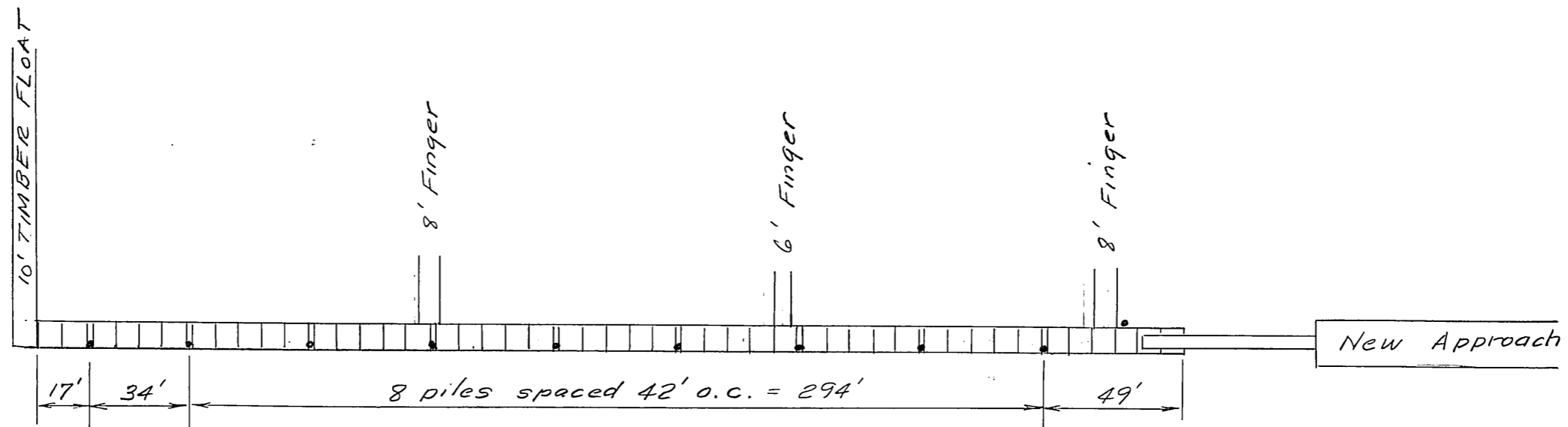


ELEVATION  
3'4" x 1'-0"

E-4

**AS-BUILT**  
Date: 3-9-81  
Division of Harbor Design and Construction

	DO NOT SCALE THIS DRAWING - USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
	SKAGWAY ALASKA <b>MISC. ELECTRICAL DETAILS</b>	
SCALE NOTED DESIGNED LPL CHECKED _____	SURVEYED _____ DRAWN _____ DATE _____	APPROVED <b>ROBERT P. BECK</b> CHIEF OF DESIGN
PROJECT NUMBER <b>K78147</b>		SHEET <b>28</b> OF <b>28</b>



SKAGWAY INNER HBR. FAC.  
 Modified Pile Spacing ~ 394' Float  
 April 15, 1980 DCW  
 Project No. K78147