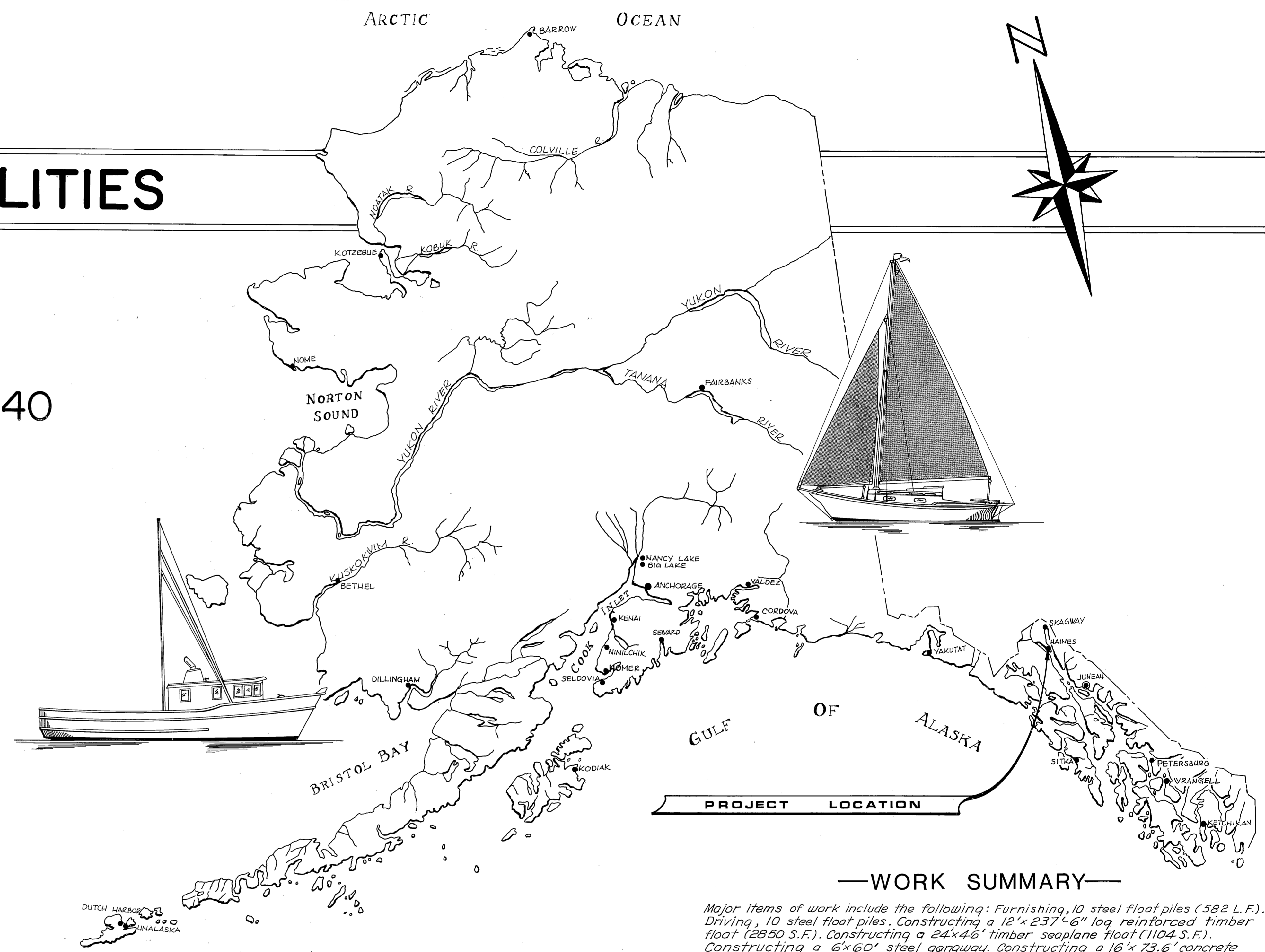


# HAINES HARBOR FACILITIES

## PHASE II

PROJECT NO. 5-78146

E.D.A. PROJ. NO. 07-01-01953.40



PROJECT LOCATION

### —WORK SUMMARY—

Major items of work include the following: Furnishing, 10 steel float piles (582 L.F.). Driving, 10 steel float piles. Constructing a 12' x 237'-6" log reinforced timber float (2850 S.F.). Constructing a 24' x 46' timber seaplane float (1104 S.F.). Constructing a 6' x 60' steel ganway. Constructing a 16' x 73.6' concrete and steel approach (1177.6 S.F.). Constructing a 32' x 67.2' concrete and steel dock (2150.4 S.F.). Grading and slope protection for a parking area. Constructing a dock and float lighting system.  
 Deductive alternates include the following: (1) Deduct construction of the 24' x 36' timber seaplane float. (1) Deduct furnishing and driving of one steel float pile (56 L.F.). (2) Deduct construction of dock and float lighting system.

AS BUILT

### INDEX TO SHEETS

1	Title & Location	
2	Project Layout & Site Grading	
3	Approach & Dock Details	
4	12' Breakwater Float	
5	Float Diagrams & Misc. Details	
6	Seaplane Float	
7	Typical Steel Ganway, Sheet A	
8	Typical Steel Ganway, Sheet B	
9	Lighting Plan	

STATE  
OF  
ALASKA

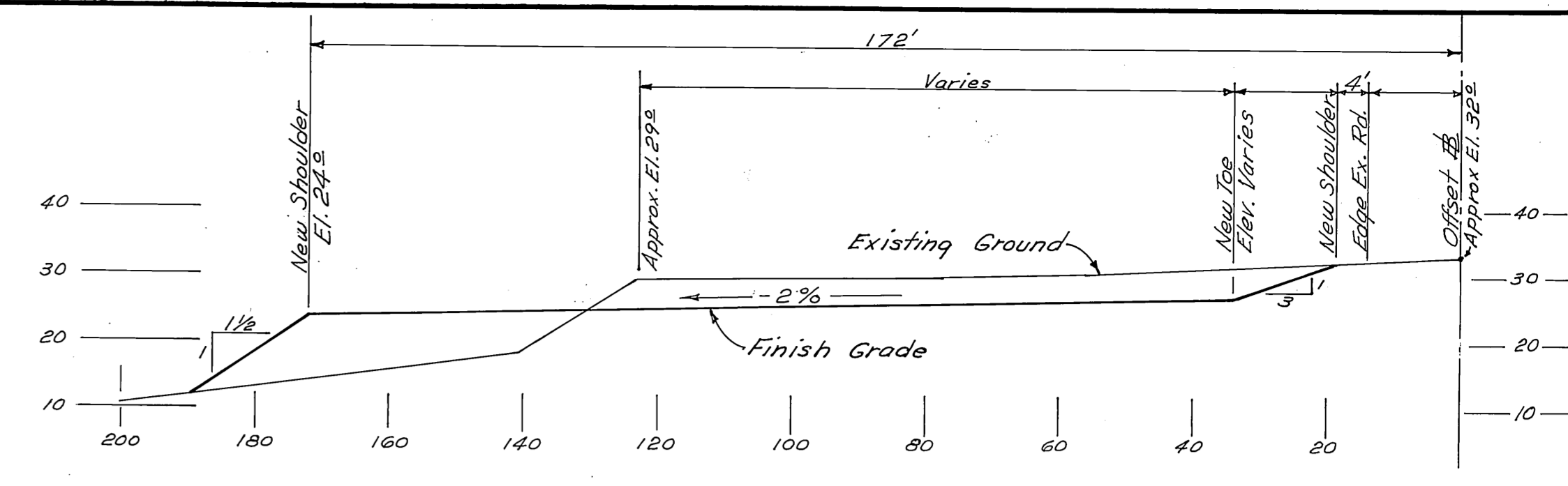
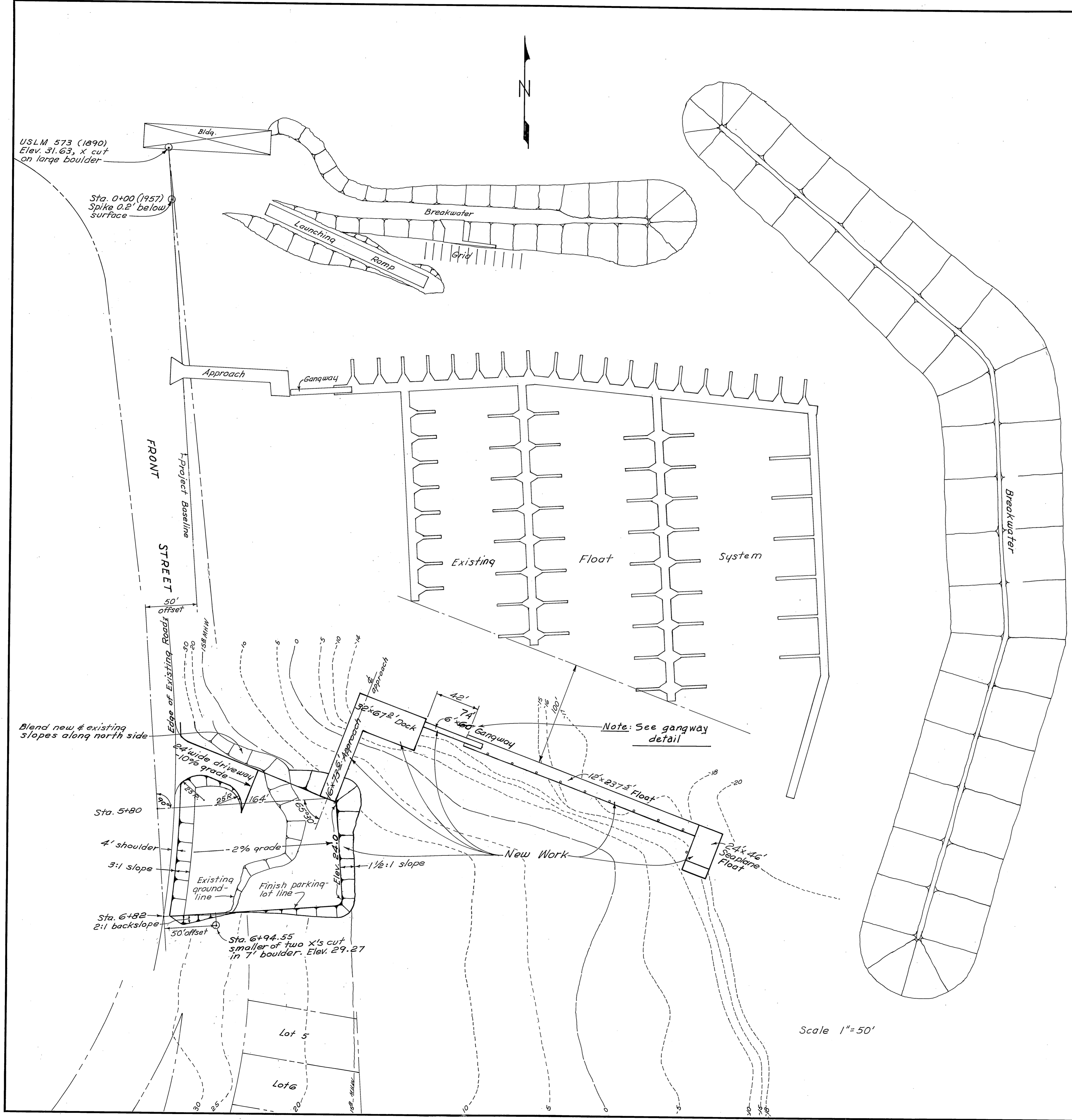
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
**DIVISION OF HARBOR  
DESIGN & CONSTRUCTION**

APPROVED

*Wm. Statler*

DATE 3/31/78

SHEET 1 OF 9 A

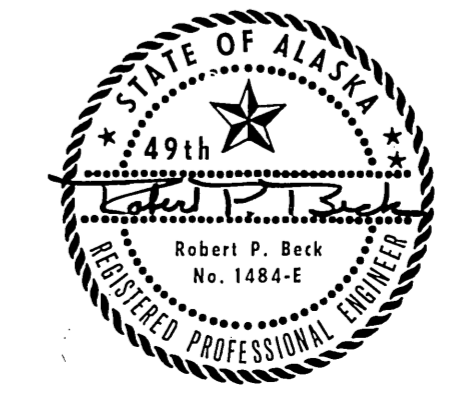


PORTAGE COVE

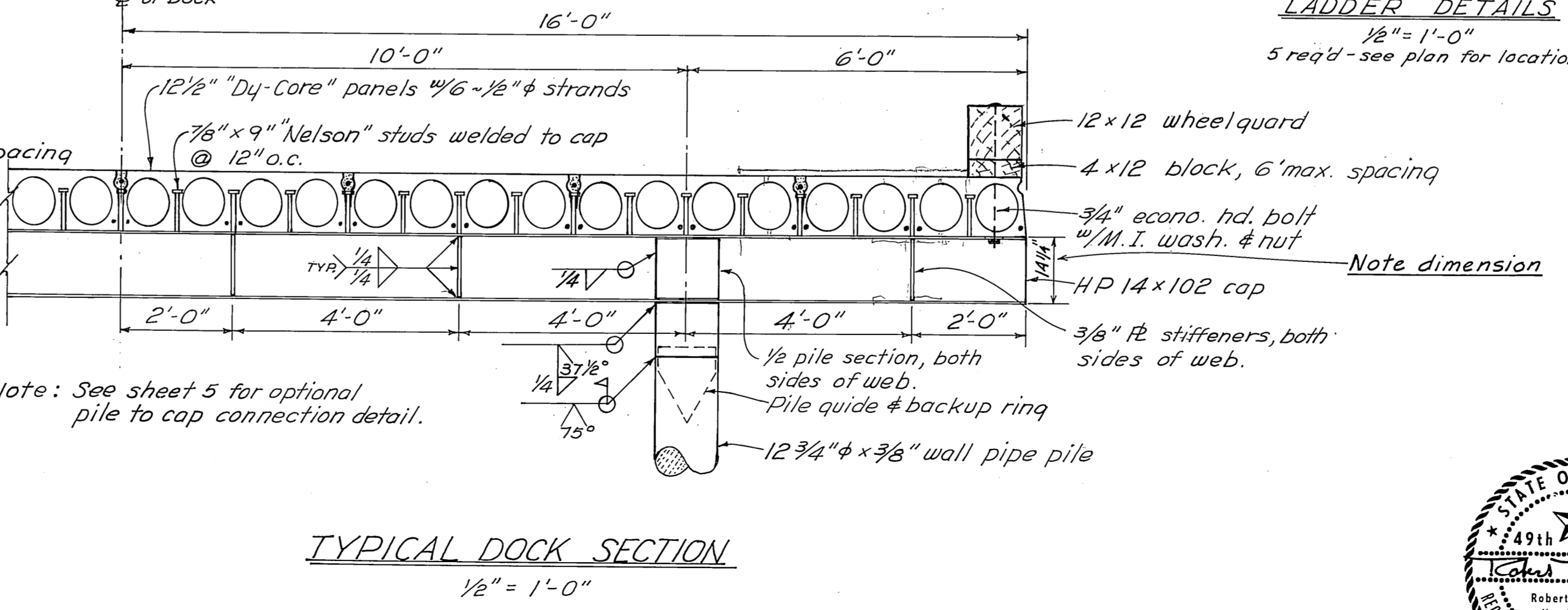
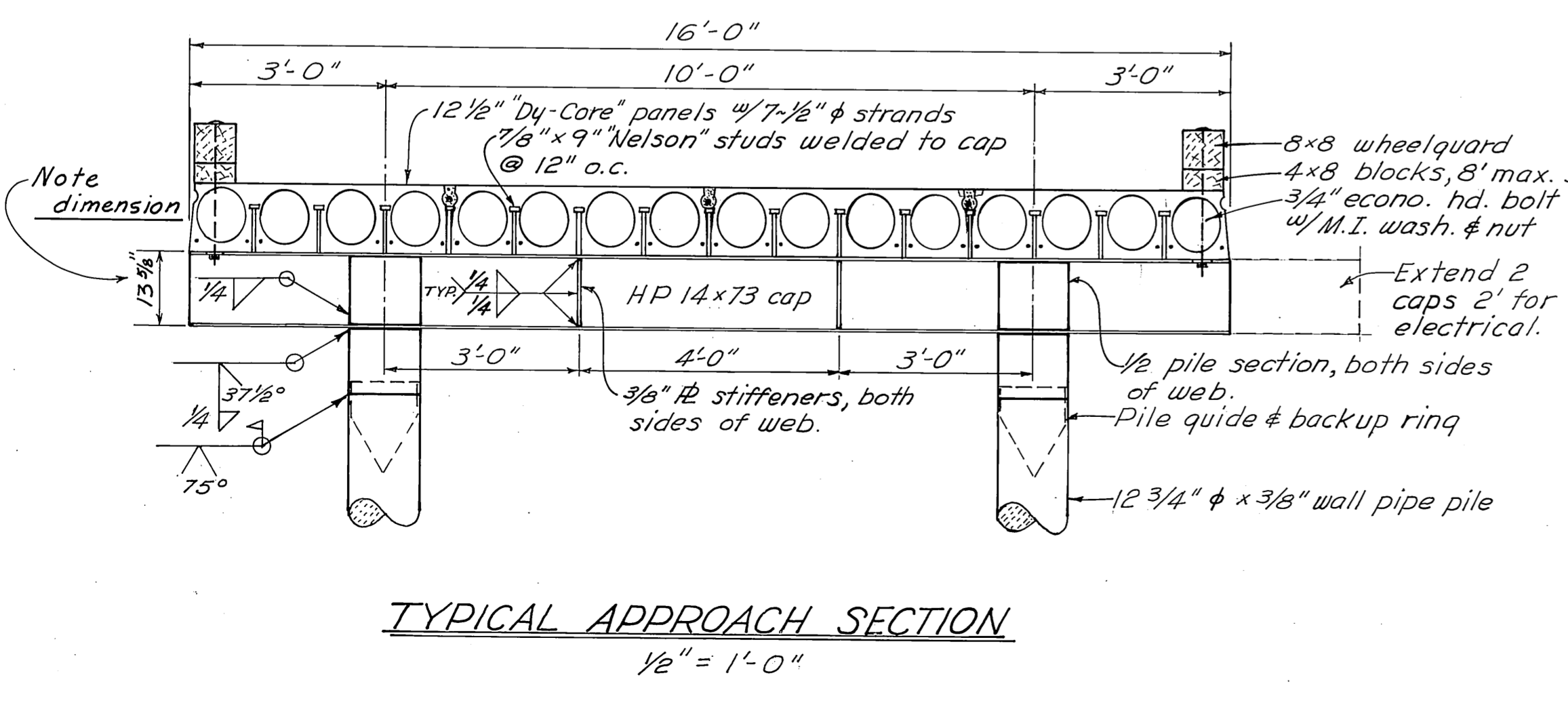
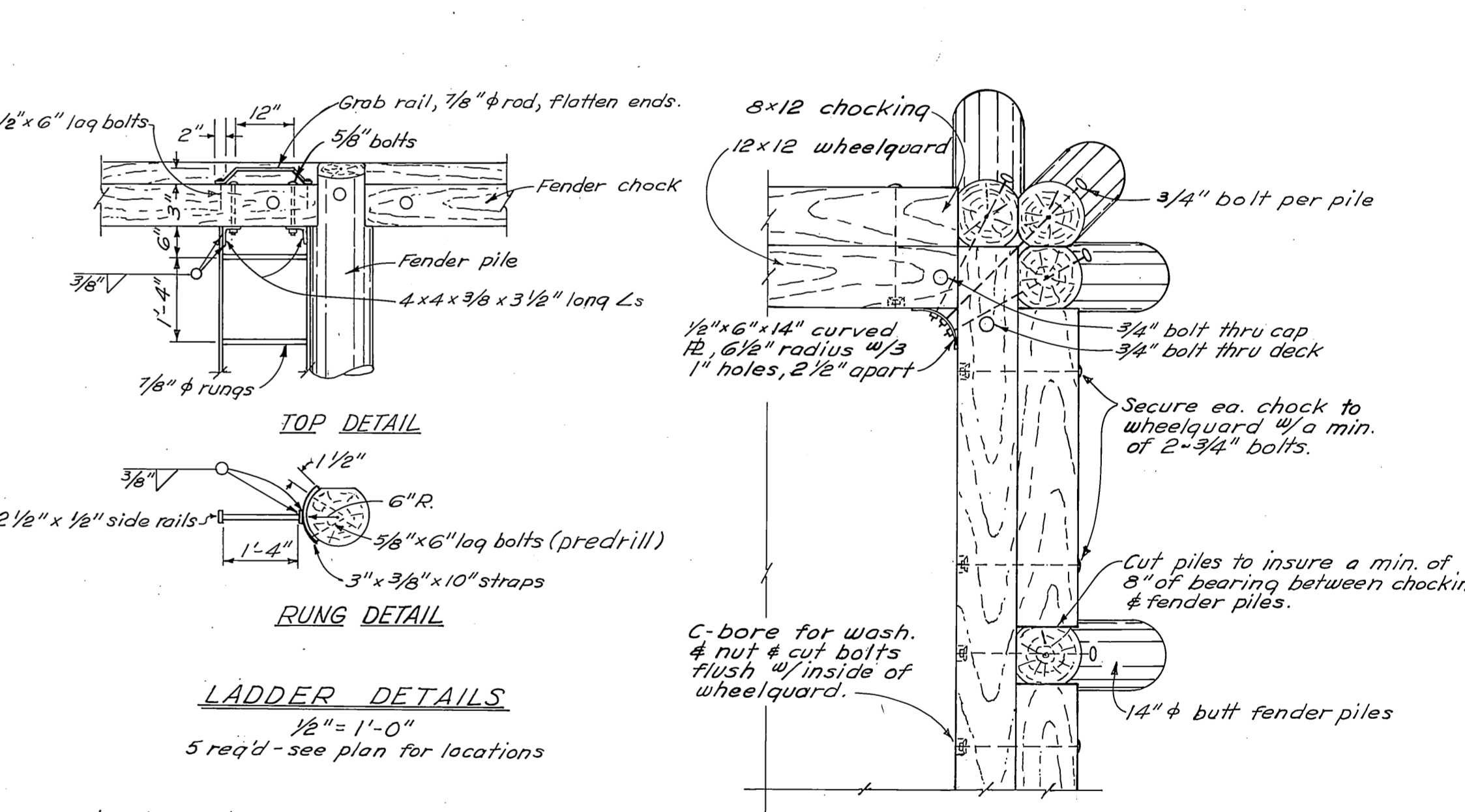
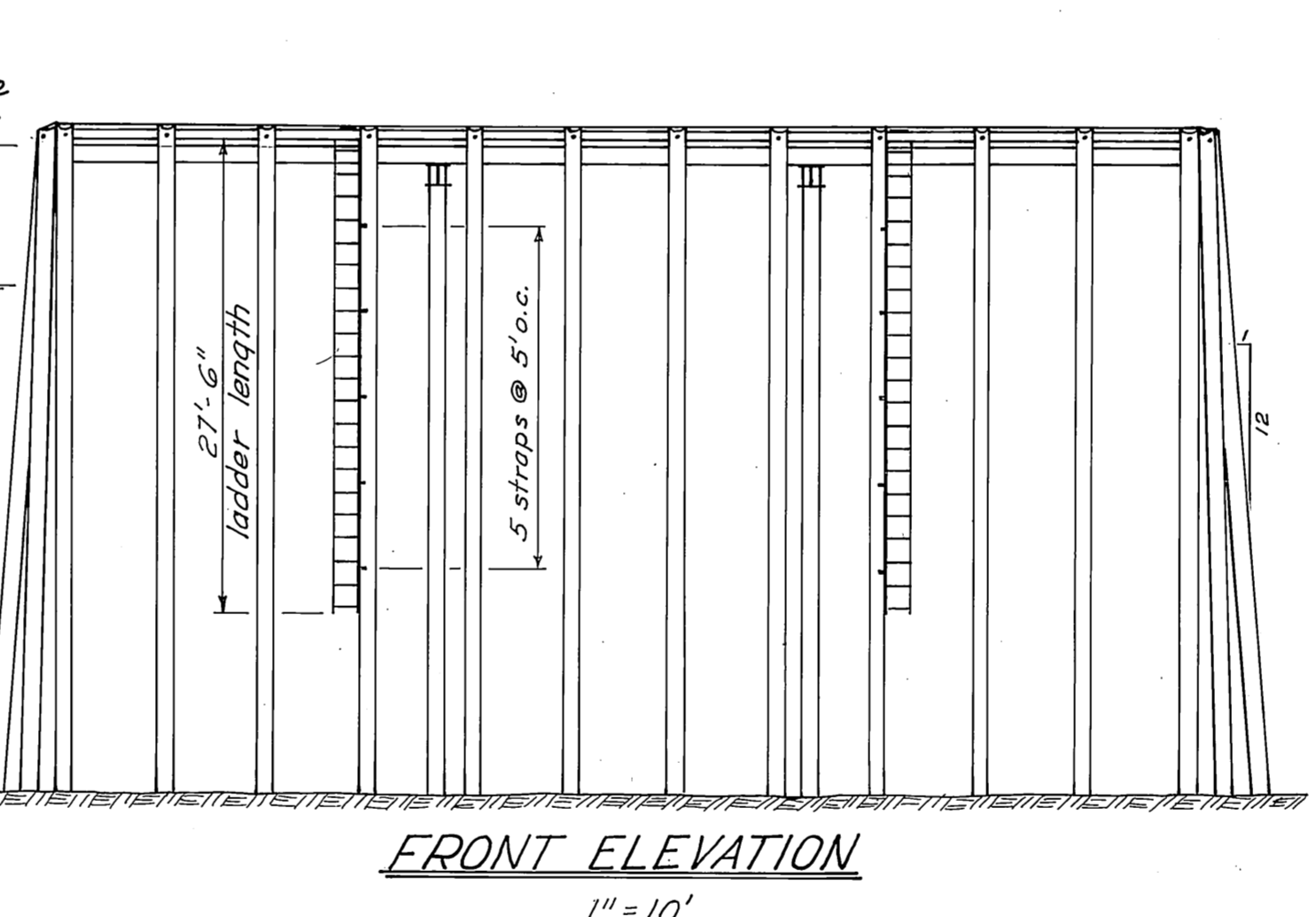
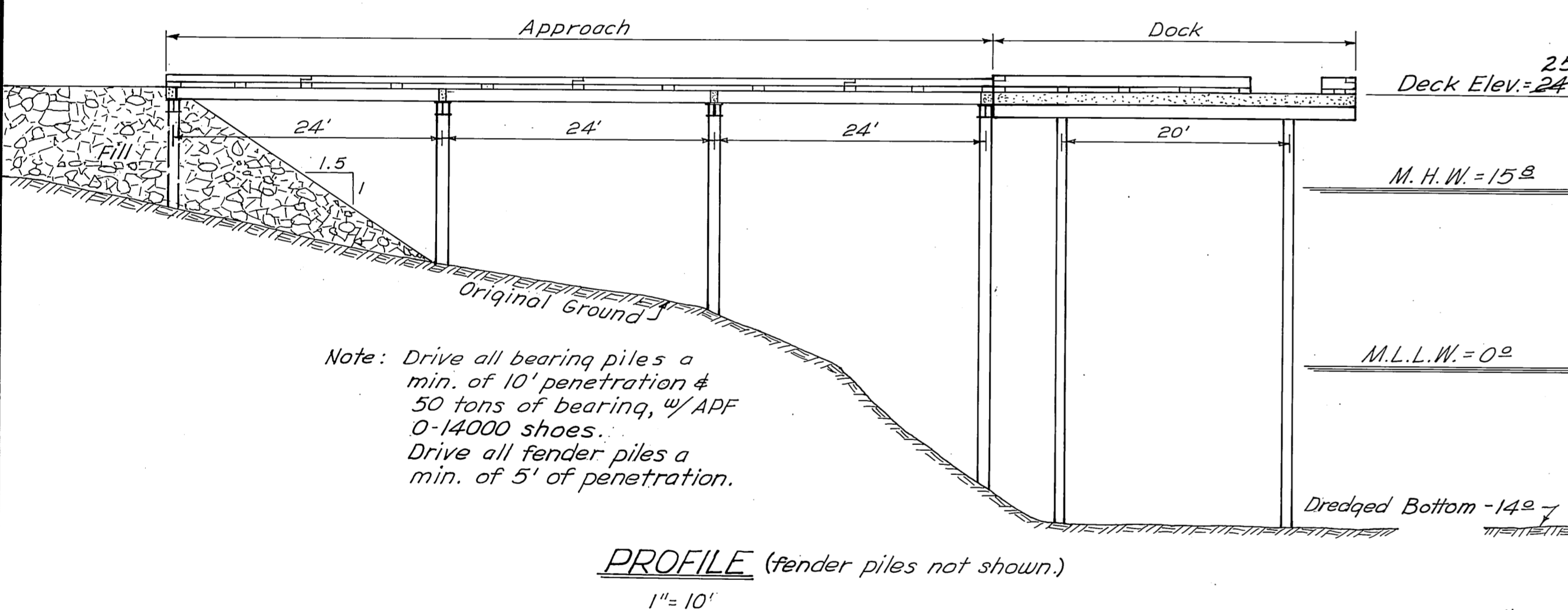
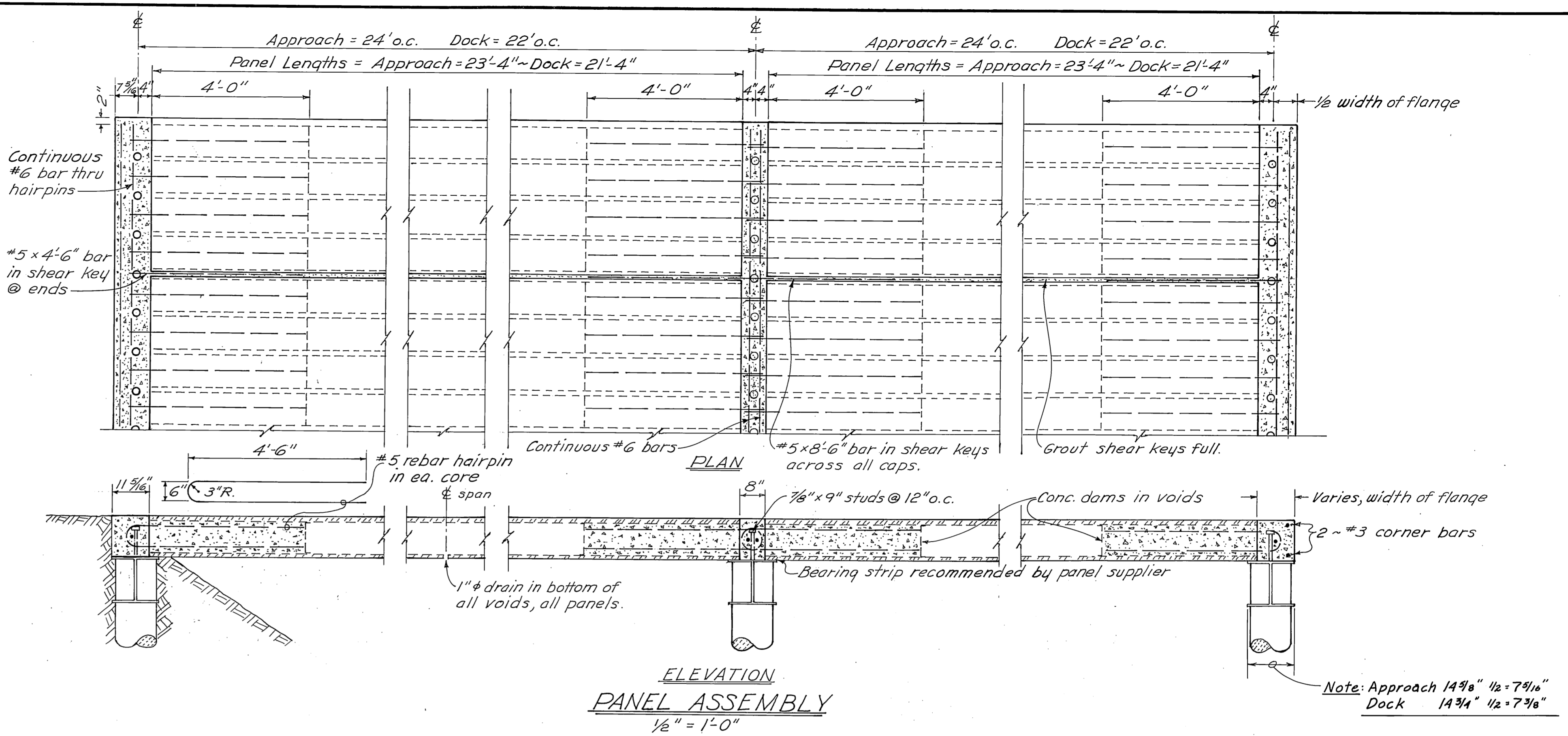
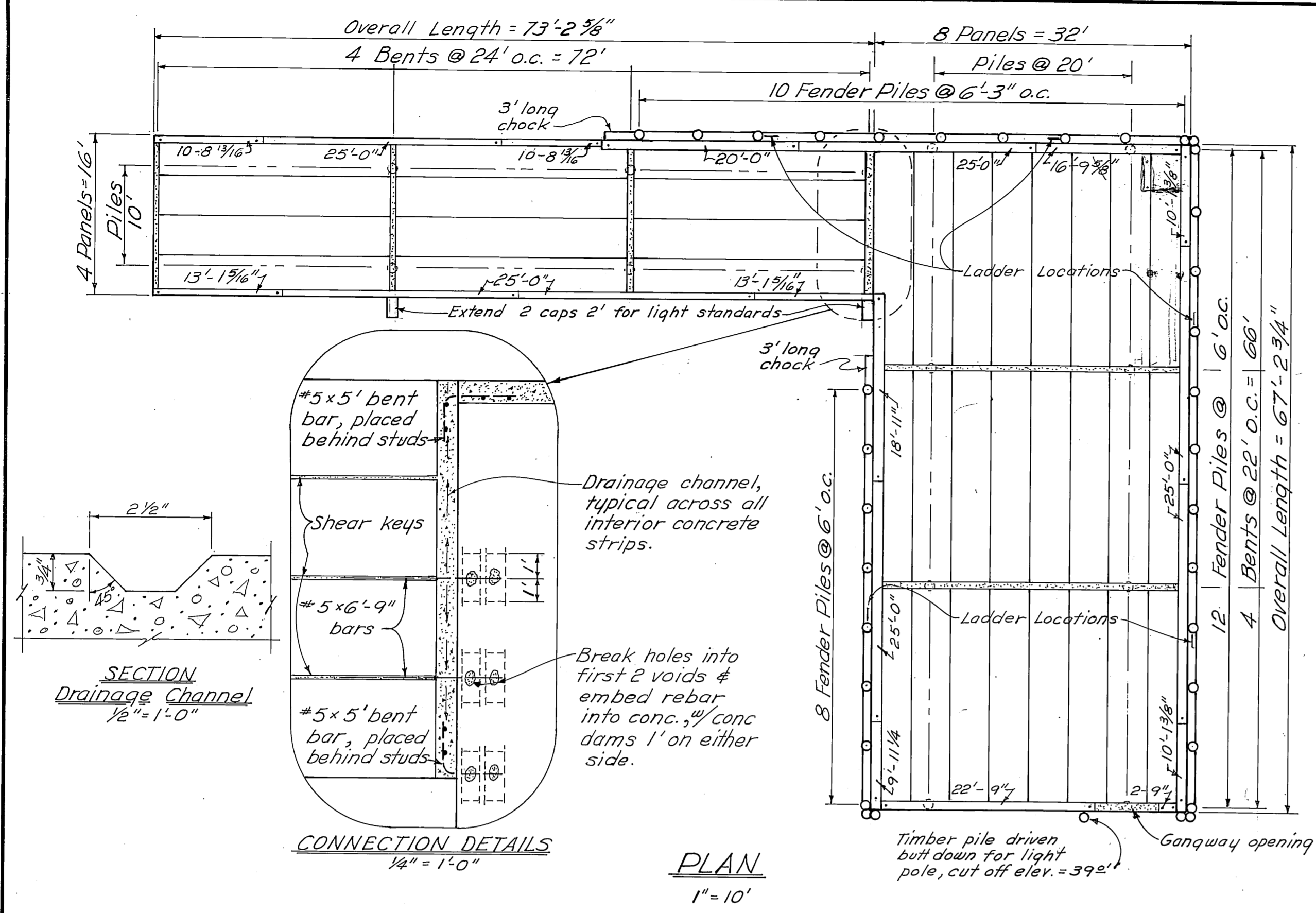
NOTE: 10 ~ 12 3/4" φ x 3/8" wall steel float piles w/ APF 0-14000 shoes shall be driven to 10' of penetration or refusal as determined by the engineer.  
 Pile cutoff = Elev. 32.2  
 ○ = New float piles

**AS BUILT**

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>HAINES PROJECT LAYOUT &amp; SITE GRADING</b>		
SCALE <i>As Shown</i>	SURVEYED <i>D.C.W.</i>	APPROVED
DESIGNED <i>D.C.W.</i>	DRAWN <i>E.L.S.</i>	<i>Don Statter</i>
CHECKED <i>D.C.W.</i>	DATE <i>Jan. 1978</i>	DIRECTOR
PROJECT NUMBER <b>5-78146-II</b>	SHEET <b>2</b> OF <b>9A</b>	



Scale 1"=50'



**AS BUILT**

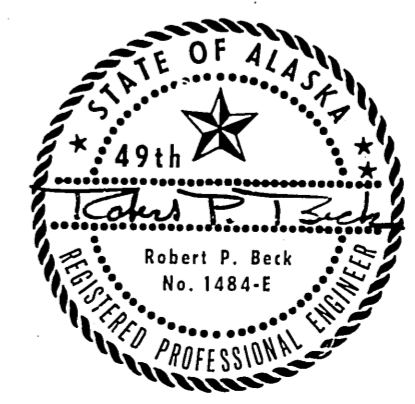
Designed for slow moving, no impact, H 20-44, loading

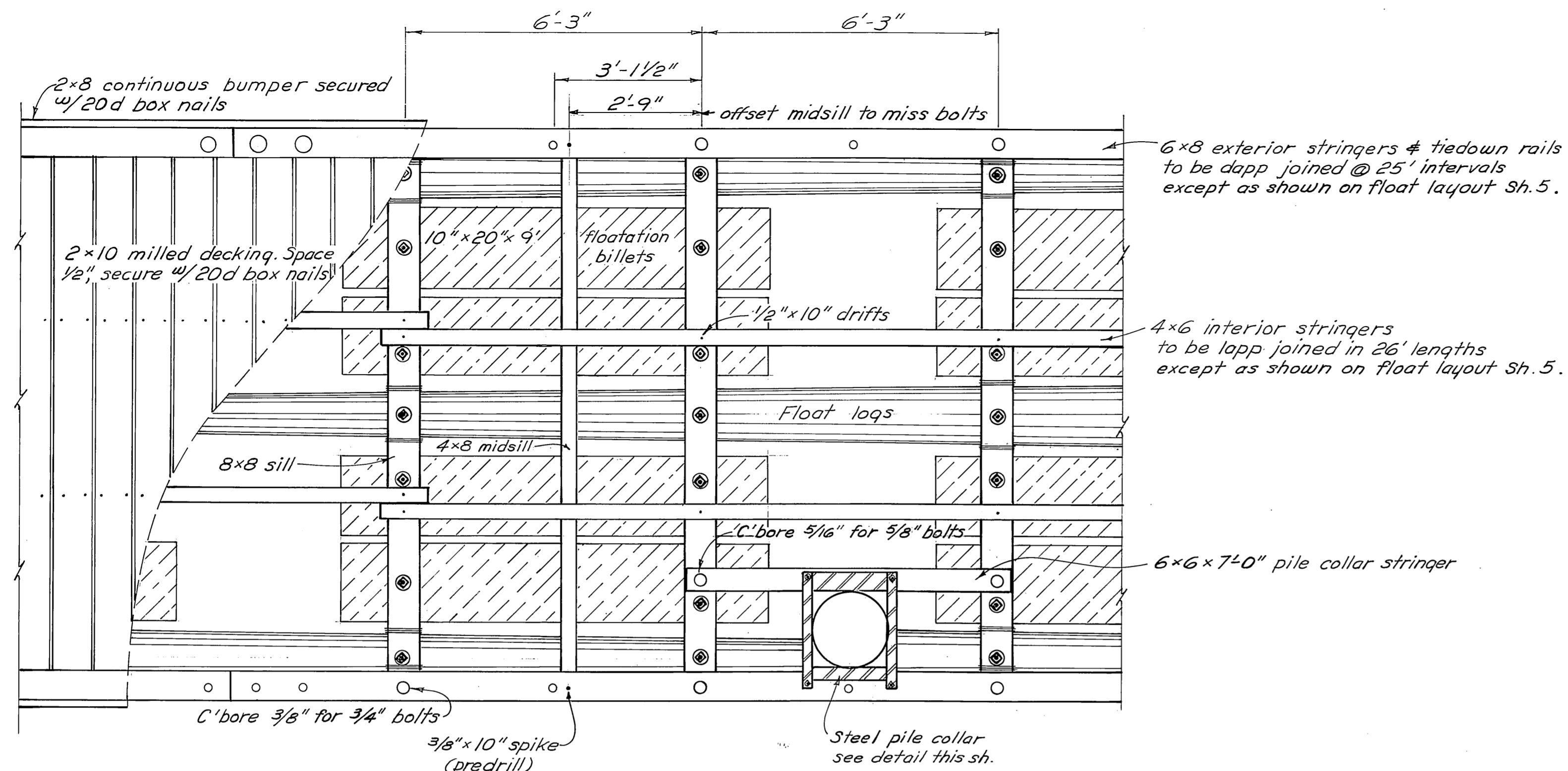
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

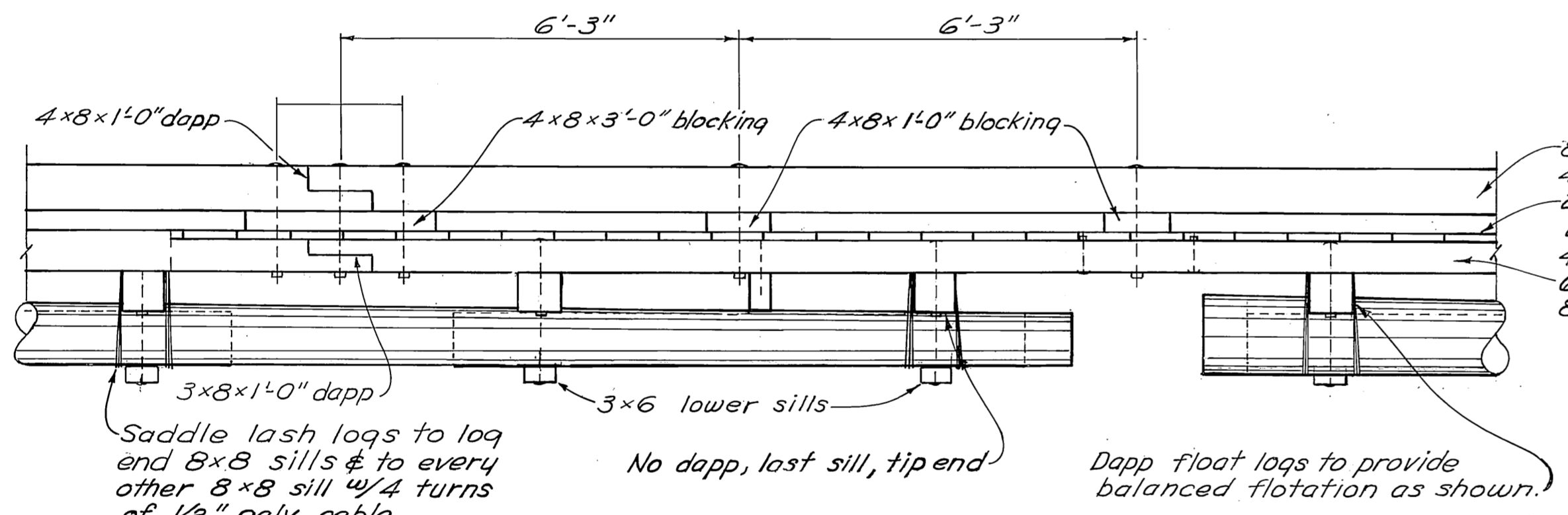
**HAINES  
APPROACH & DOCK  
DETAILS**

SCALE As Shown	SURVEYED D.W.	APPROVED
DESIGNED H.M.	DRAWN E.L.S.	Don Statter
CHECKED H.M.-D.H.	DATE 9-77	DIRECTOR
PROJECT NUMBER 5-78146-II	SHEET 3	OF 9A

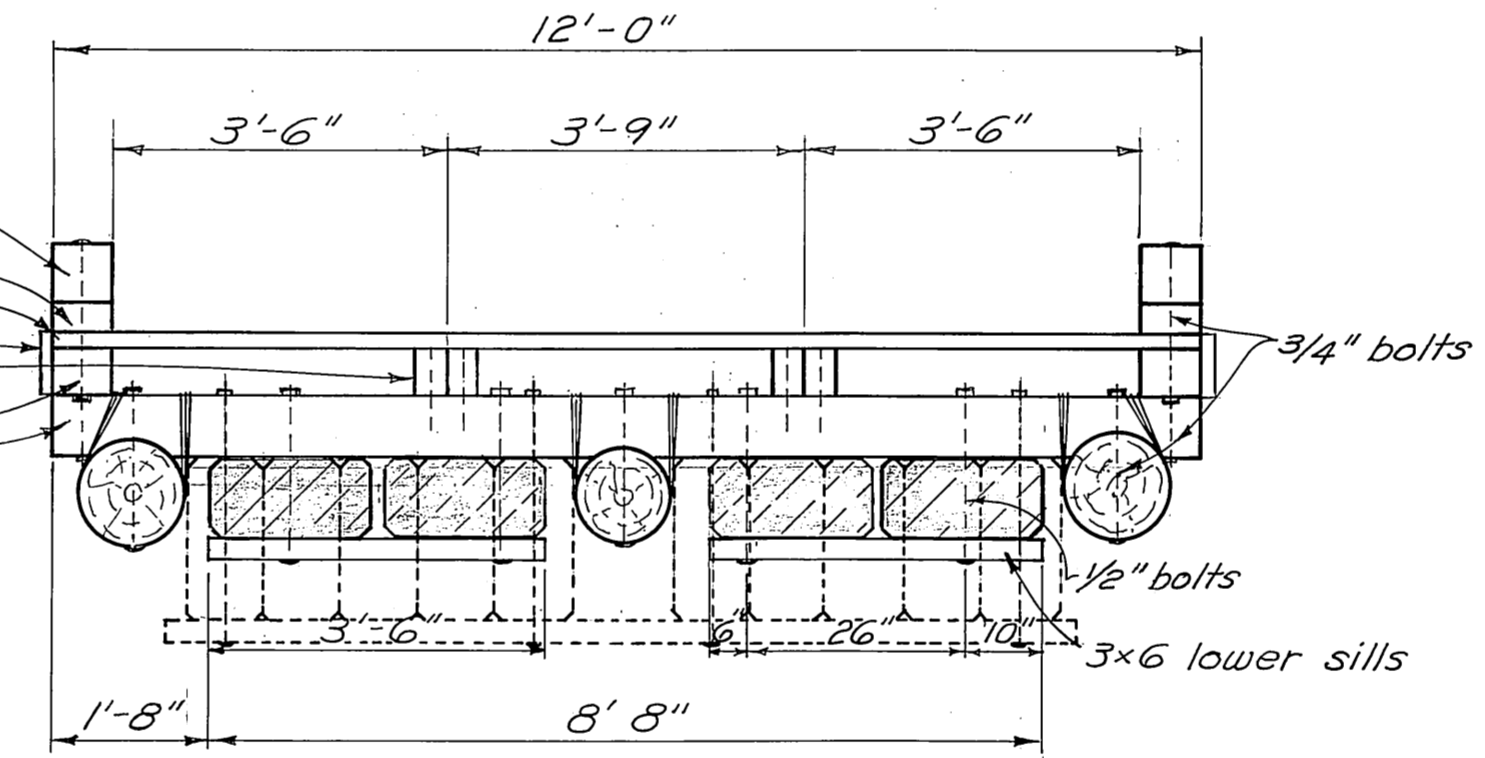




**PLAN**  
1/2" = 1'-0"

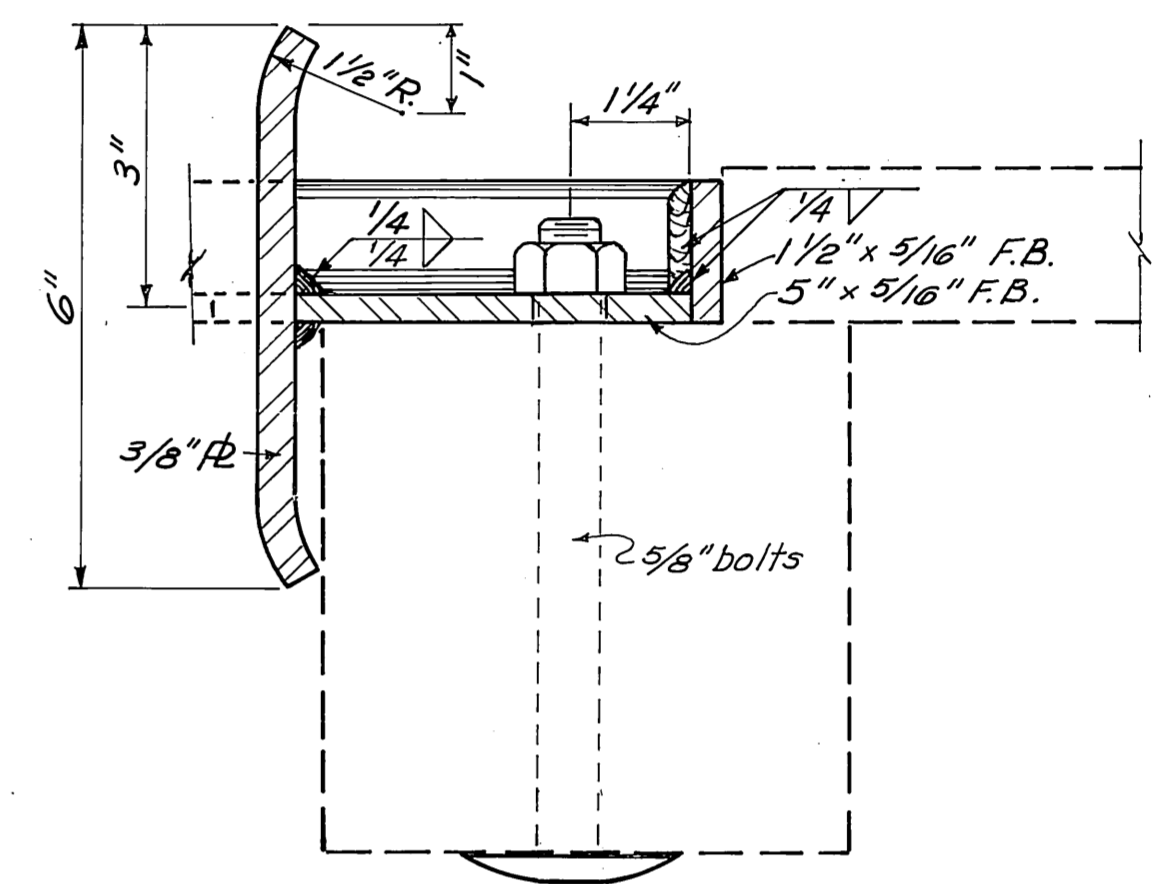
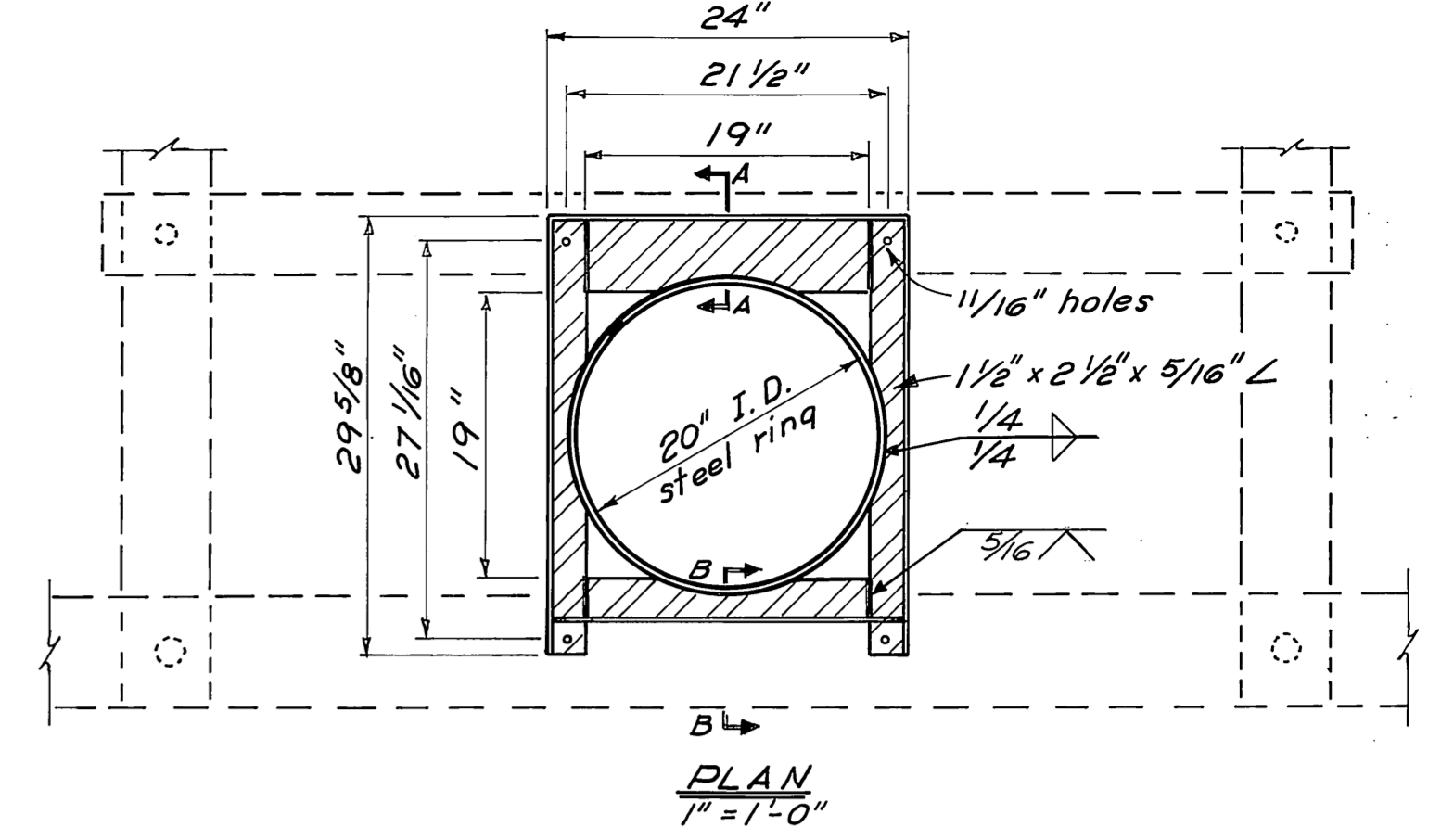
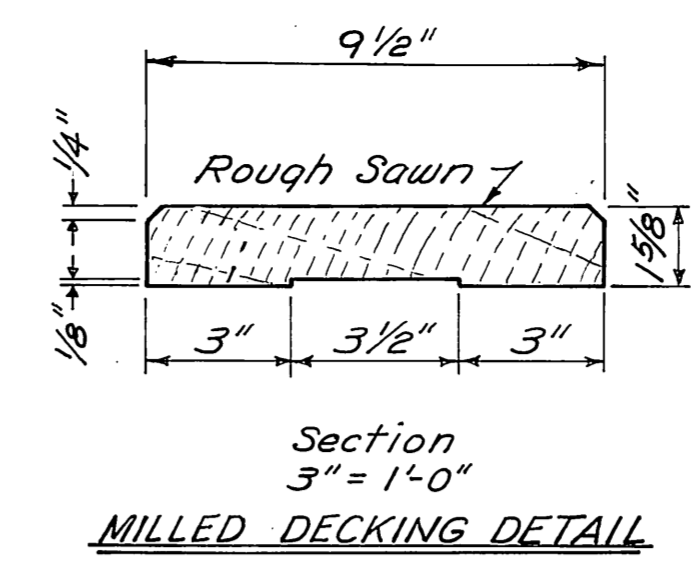


**ELEVATION**  
1/2" = 1'-0"

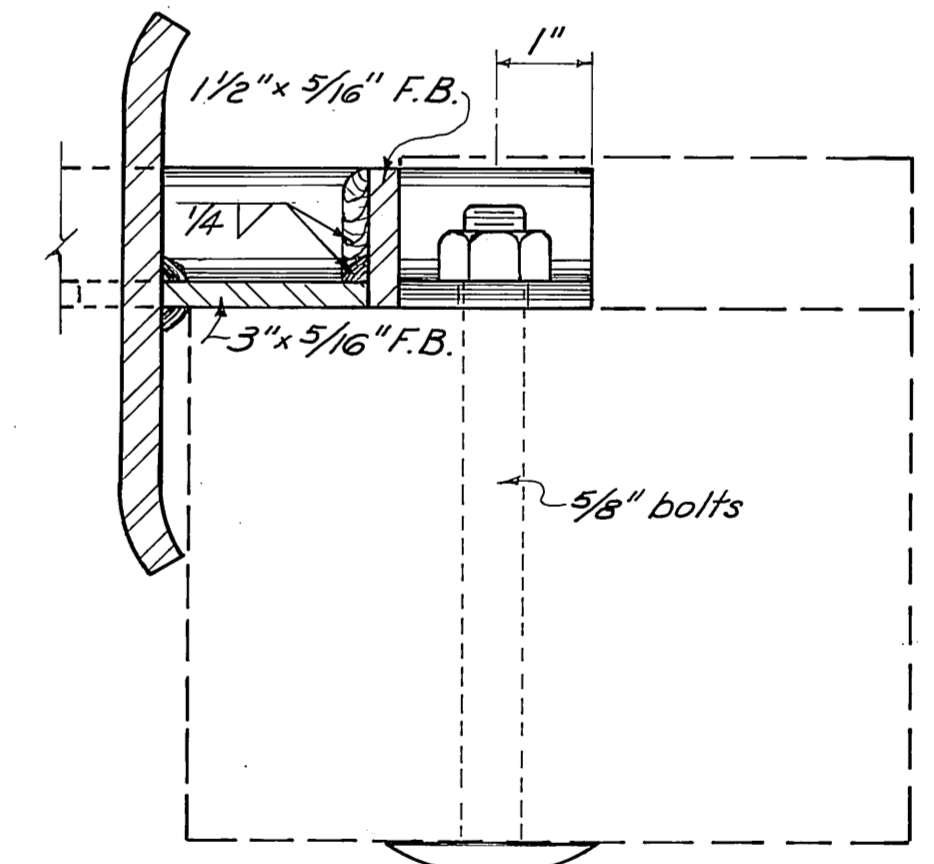


**SECTION-TYPICAL**  
1/2" = 1'-0"

DOTTED LINES SHOW GANGWAY FLOAT SECTION



NOTE: All mat'l mild steel. Hot dip galv. after fab.



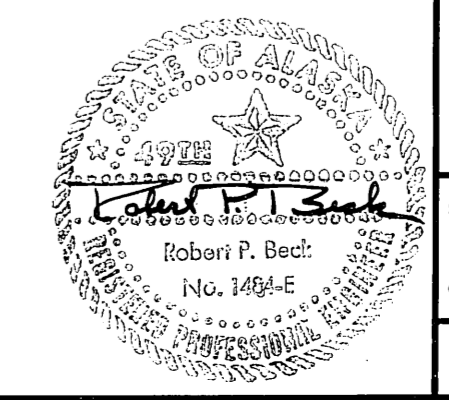
**STEEL PILE COLLAR DETAILS**

MATERIALS		
ITEM	DRESSING	TREATMENT
8x8 tiedown rail	S4S	0.4 lb. penta.
4x8 blocking	S4S	" "
2x10 decking	Milled	" "
2x8 bumpers	S4S	" "
6x8 exterior stringers	S4S	10 lb. creol.
4x6 interior stringers	S2E	" "
6x6 collar stringers	S2E	" "
8x8 & 4x8 sills	S4S	" "
3x6 lower sills	Rough	" "
Float logs	D25-73	20 lb. creol.

DRILLING SCHEDULE	
SHOP DRILL	FIELD DRILL
Tiedown rail ~ all holes.	Tiedown rail blocking ~ all holes.
Stringers ~ holes for stringer to sill bolts, drifts & spikes.	Ext. stringer ~ holes for tiedown rail & pile collar
Pile collar stringers ~ all holes.	
Sills ~ holes for flotation billets, logs, stringer to sill bolts, & spikes.	

Drill holes for flotation billet bolts 1/8" oversize.  
 Drill holes for all other bolts 1/16" oversize.  
 Drill holes for drifts & spikes 1/16" undersize.

**AS BUILT**

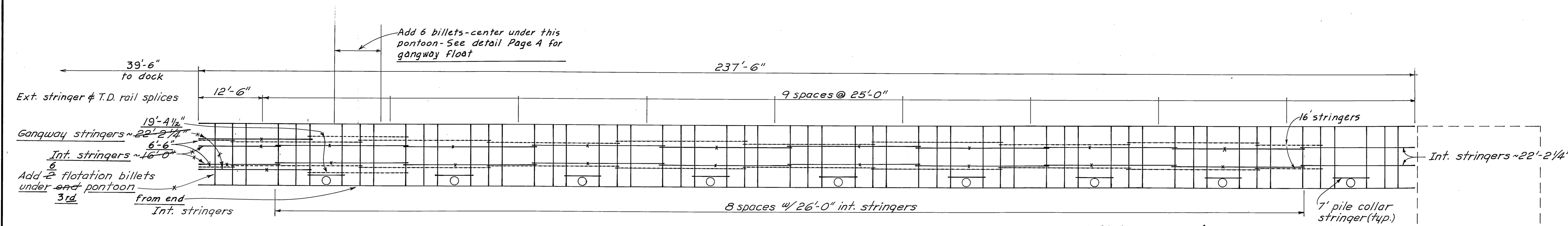


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STATE OF ALASKA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF WATER AND HARBORS

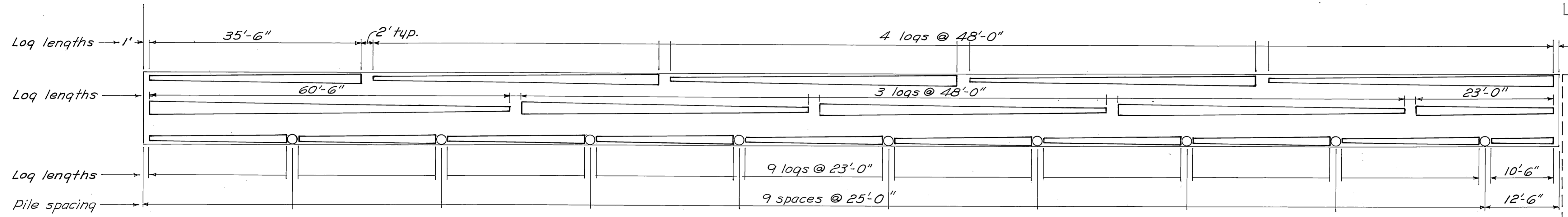
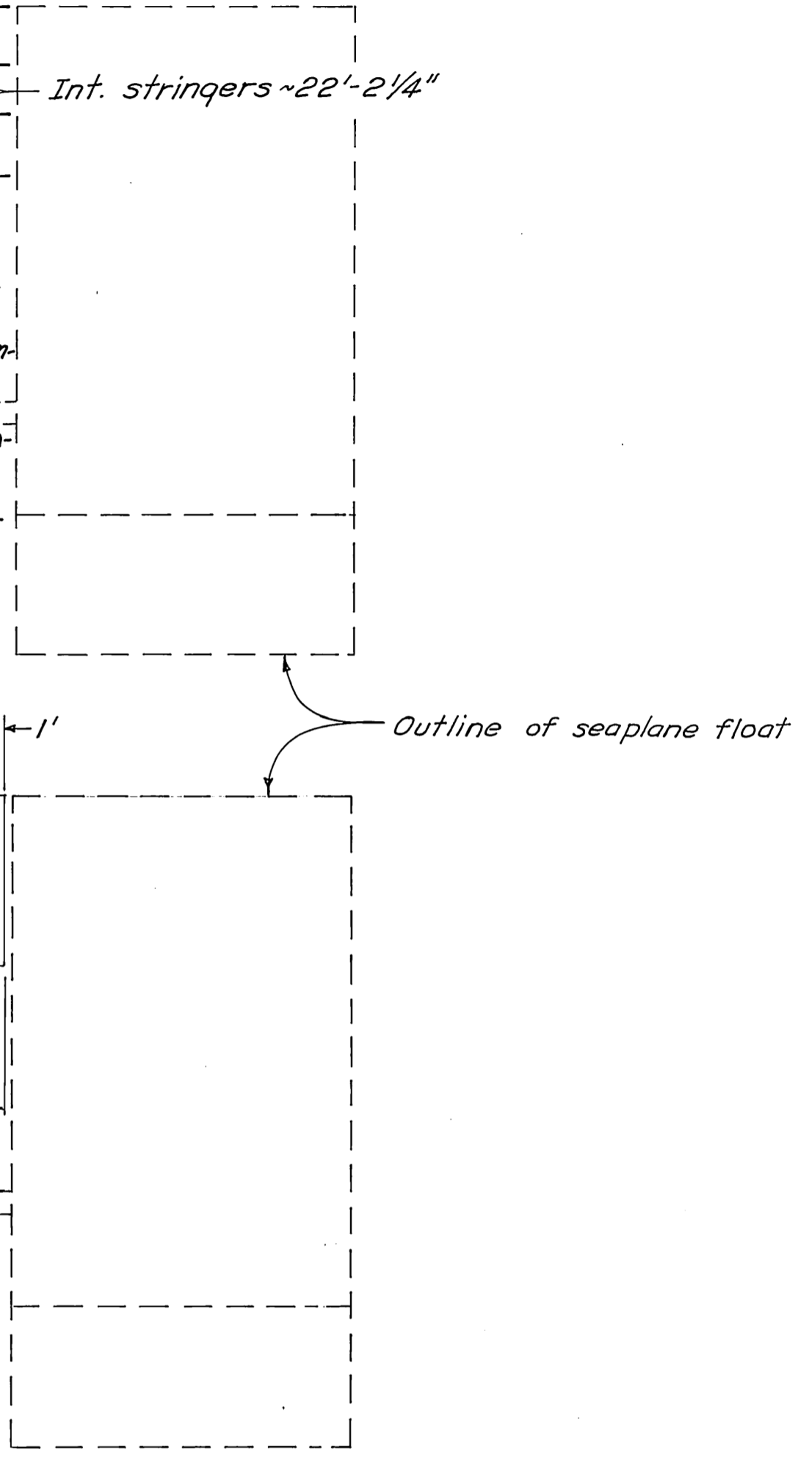
**HAINES**  
**12' BREAKWATER FLOAT**

SCALE: As Noted	SURVEYED:	APPROVED:
DESIGNED: D.C.M.	DRAWN: RB	Don Statter
CHECKED: RB	DATE: Nov. 1974	DIRECTOR
PROJECT NUMBER: 5-78146-II	SHEET 4 OF 9A	

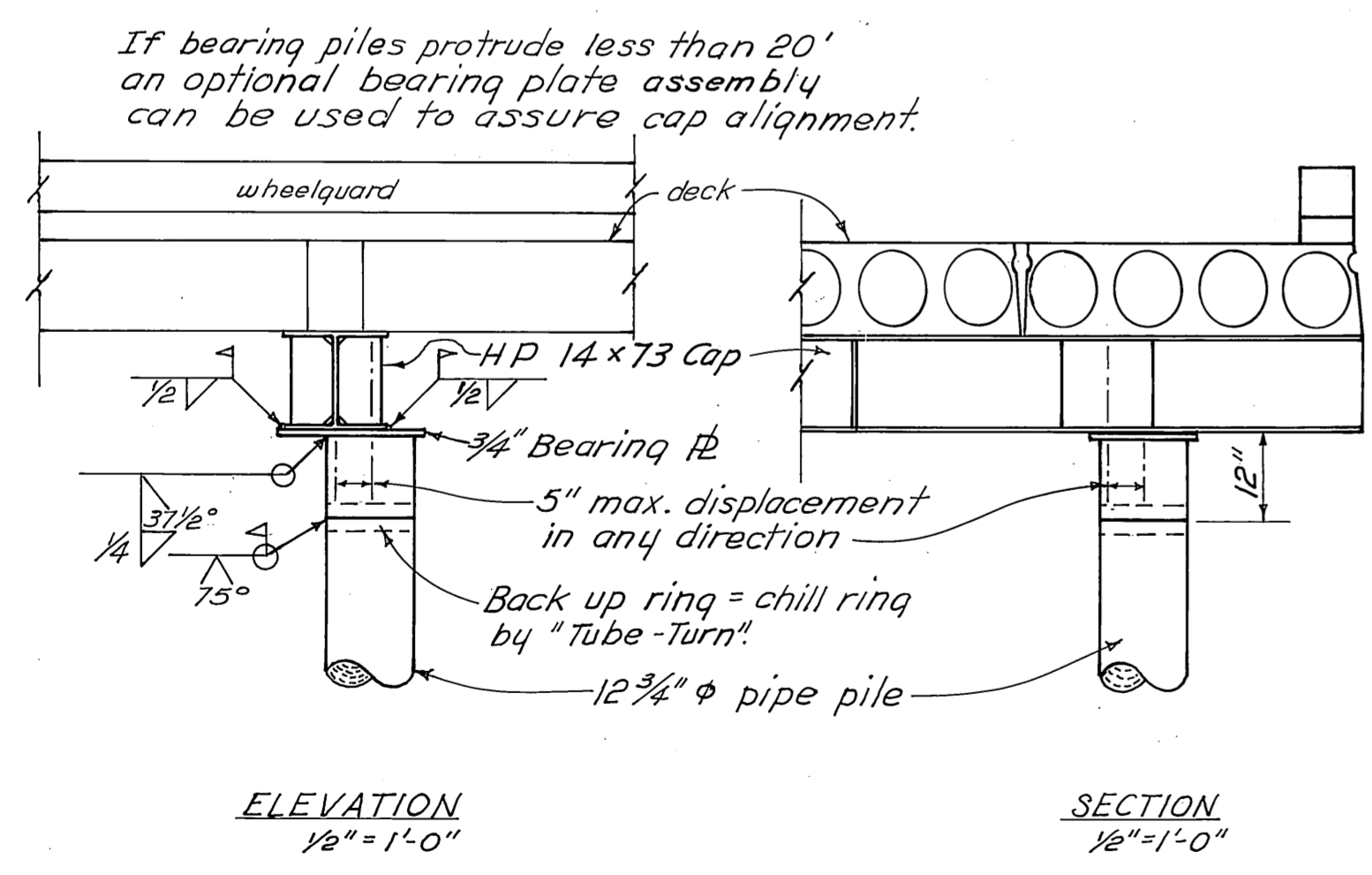


STRINGER DIAGRAM  
1" = 10'

NOTE: Interior stringer's arrangement changed by contractor to facilitate dismantling float in preassembled pieces to offload into water after total float has been assembled on shore - pieces will be reconnected in water. Dotted lines show actual stringer length layout offset from original stringer layout for clarity - stringer location dimensions from edges of float as originally planned.



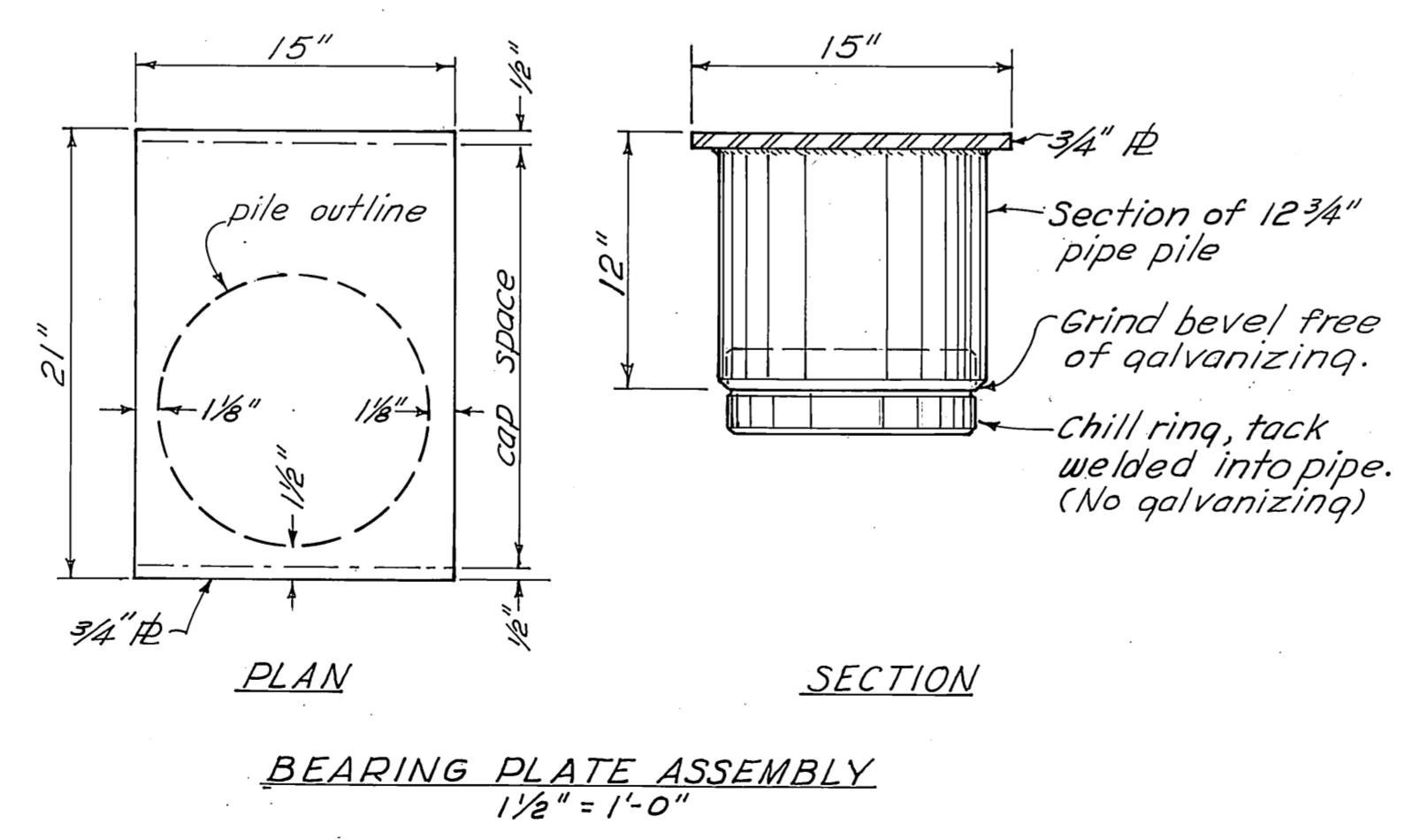
LOG DIAGRAM  
1" = 10'



ELEVATION  
1/2" = 1'-0"

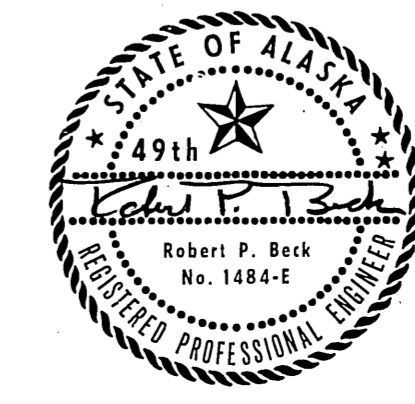
SECTION  
1/2" = 1'-0"

OPTIONAL PILE TO CAP CONNECTION DETAILS

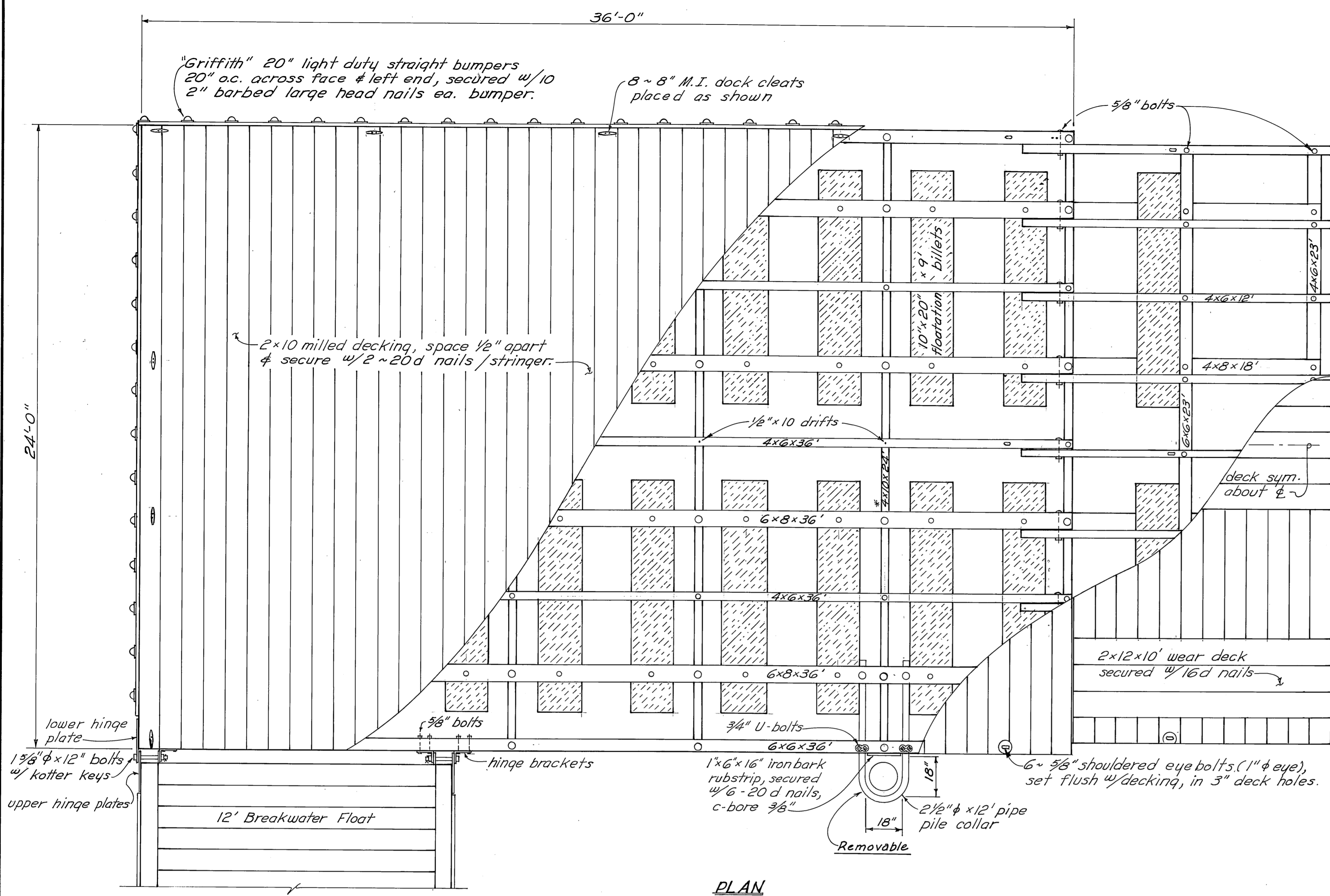


BEARING PLATE ASSEMBLY  
1 1/2" = 1'-0"

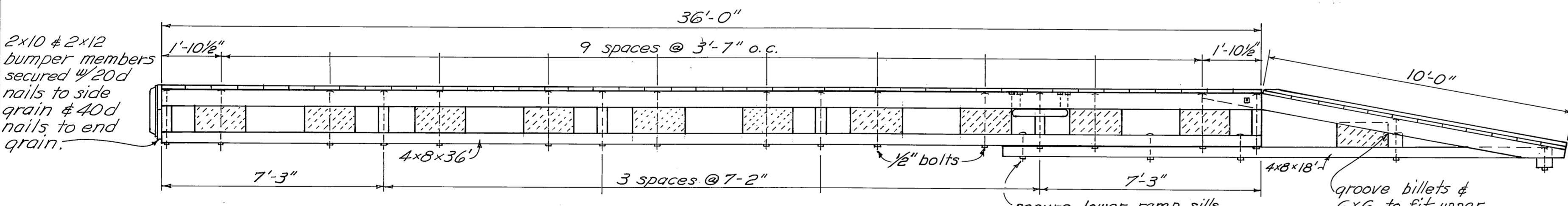
AS BUILT



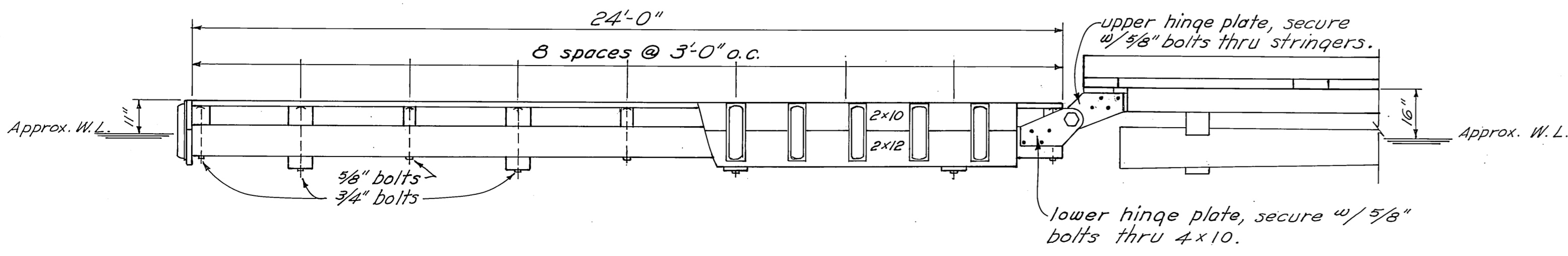
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>HAINES</b> <b>FLOAT DIAGRAMS</b> <b>&amp; MISC. DETAILS</b>		
SCALE <i>As Shown</i>	SURVEYED	APPROVED
DESIGNED <i>E.L.S.</i>	DRAWN <i>E.L.S.</i>	<i>Don Statter</i> DIRECTOR
CHECKED <i>D.C.W.</i>	DATE <i>Jan. 1978</i>	
PROJECT NUMBER <i>5-78146-II</i>	SHEET <i>5</i> OF <i>9A</i>	



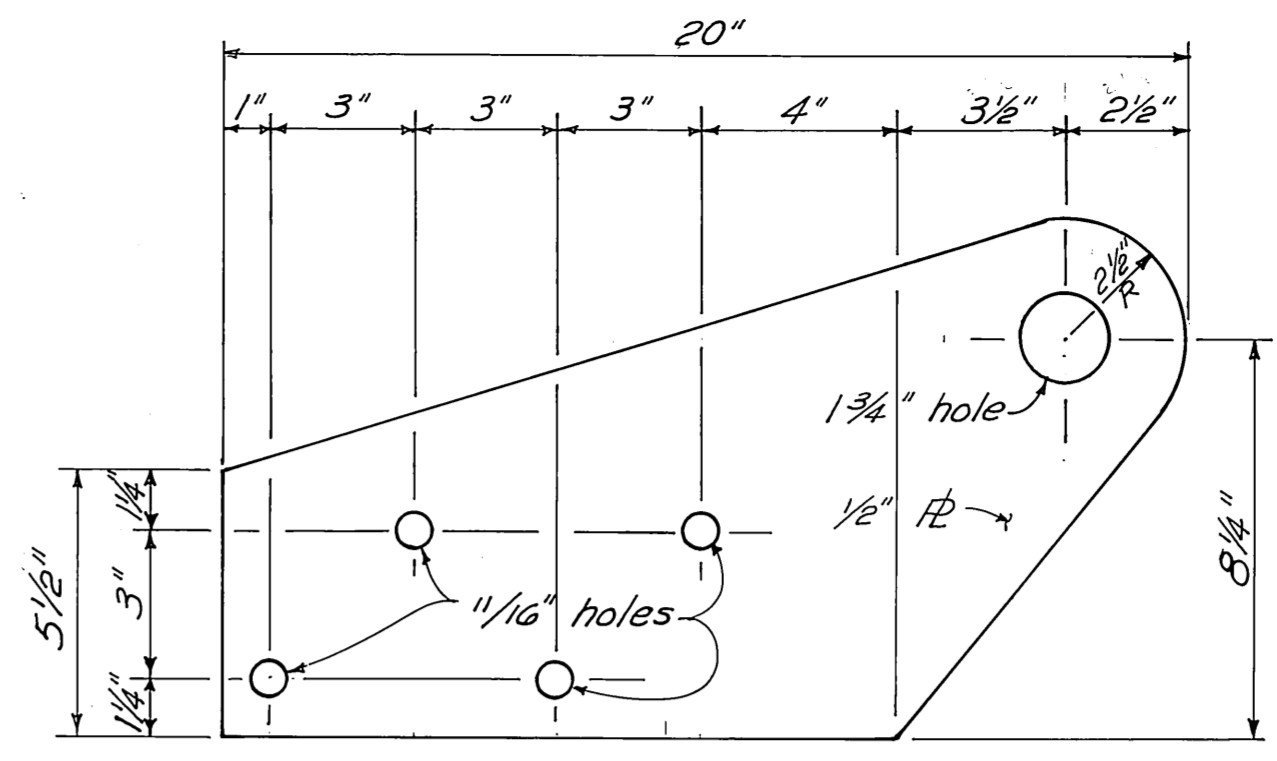
PLAN  
3/8" = 1'-0"



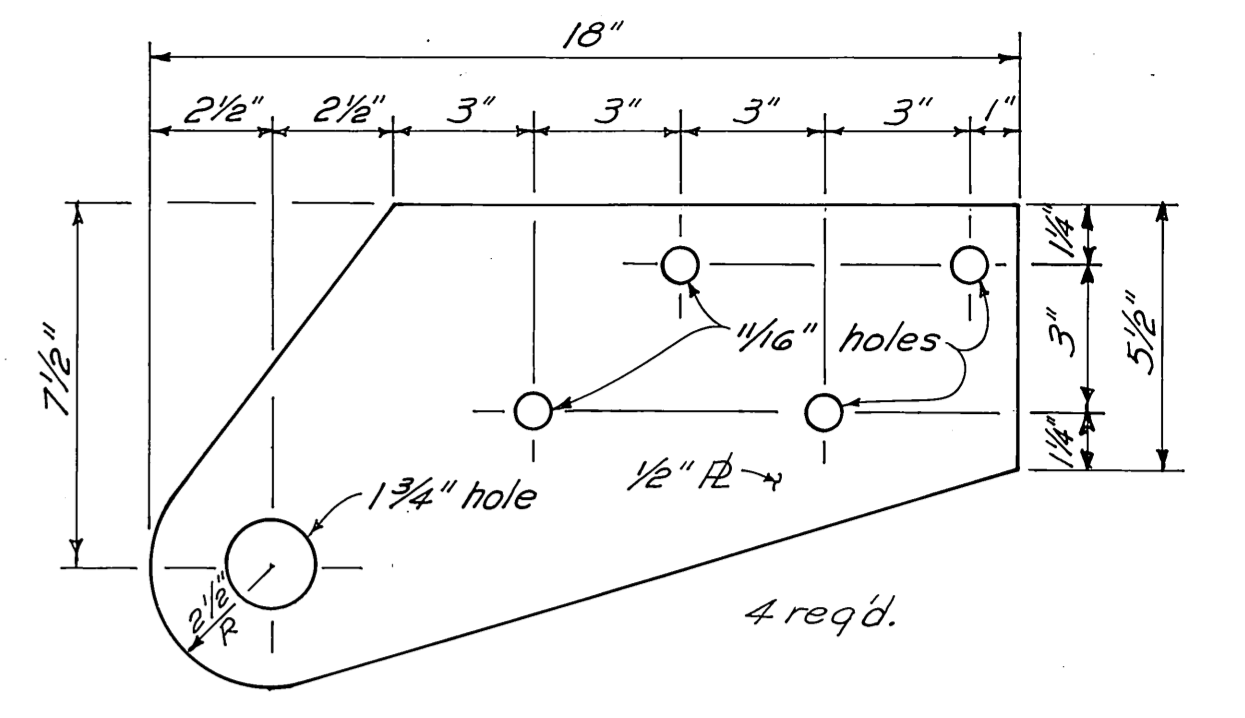
ELEVATION  
3/8" = 1'-0"



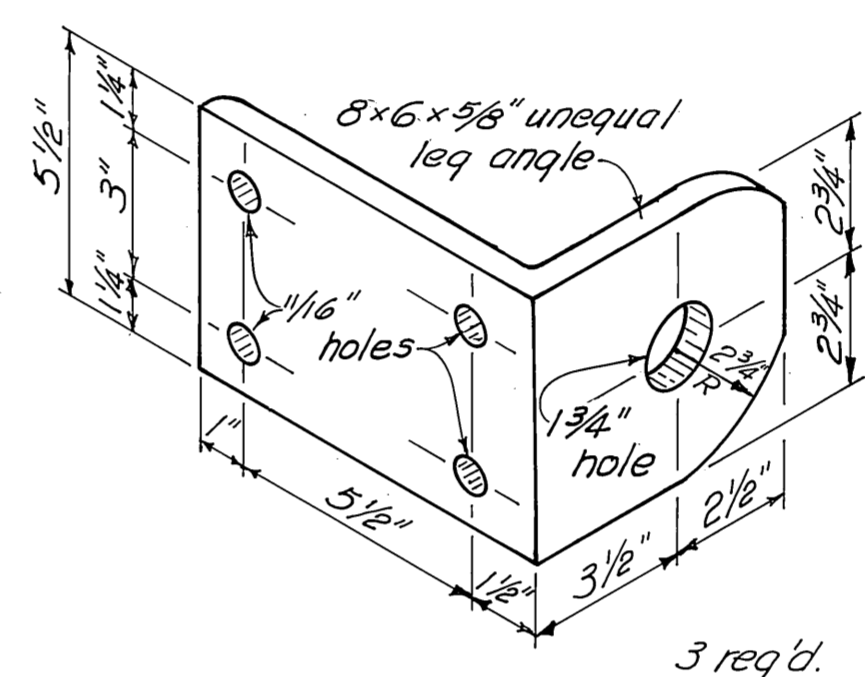
LEFT END ELEVATION  
3/8" = 1'-0"



LOWER HINGE PLATE  
3" = 1'-0"



UPPER HINGE PLATE  
3" = 1'-0"

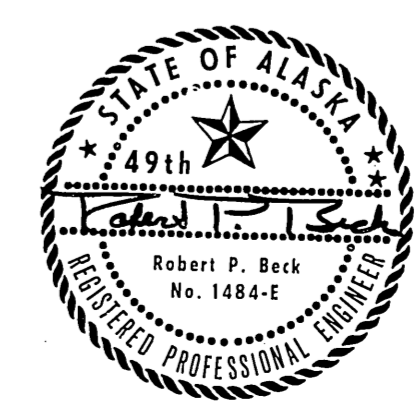


HINGE BRACKET  
3" = 1'-0"

MATERIALS		
ITEM	DRESSING	TREATMENT
2x10 decking	Milled**	0.4 lb. Penta.
2x10 & 2x12 bumpers	S4.S	10 lb. Creo.
4x6-6x6 & 6x8 upper sills	S2E	" "
4x10 stringers	S2E *	" "
4x8 lower sills	Rough	" "
6x6 ramp stringer	S2E	" "
4x6 ramp stringer	Rough	" "

\* Edge dressed to conform to thickness of floatation billets.  
\*\* See sheet 4 for detail

AS BUILT

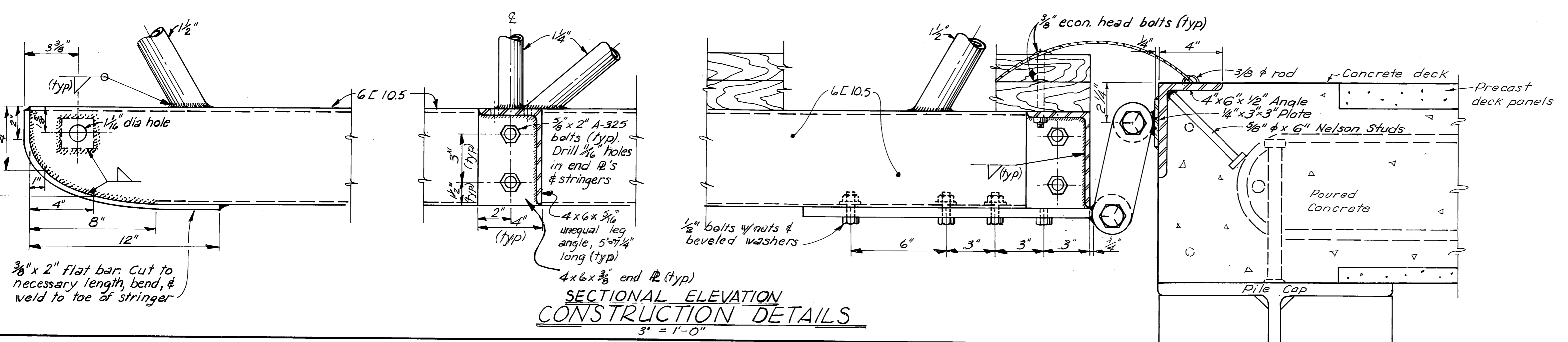
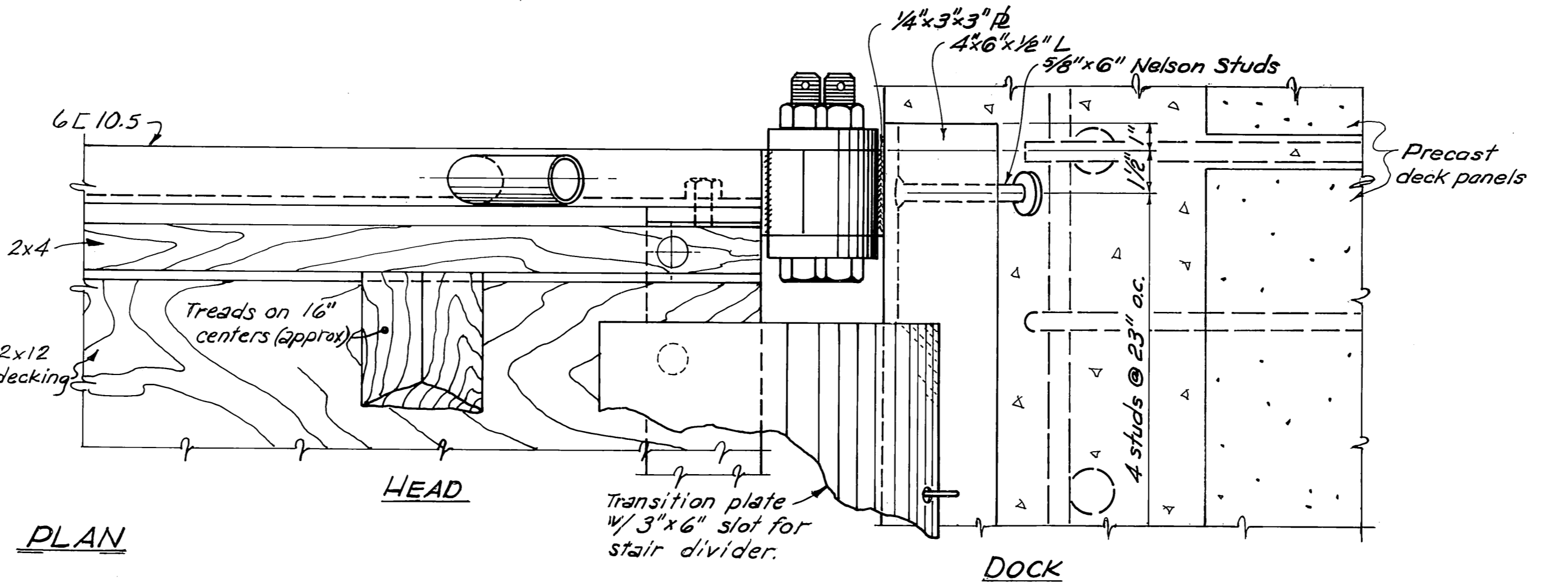
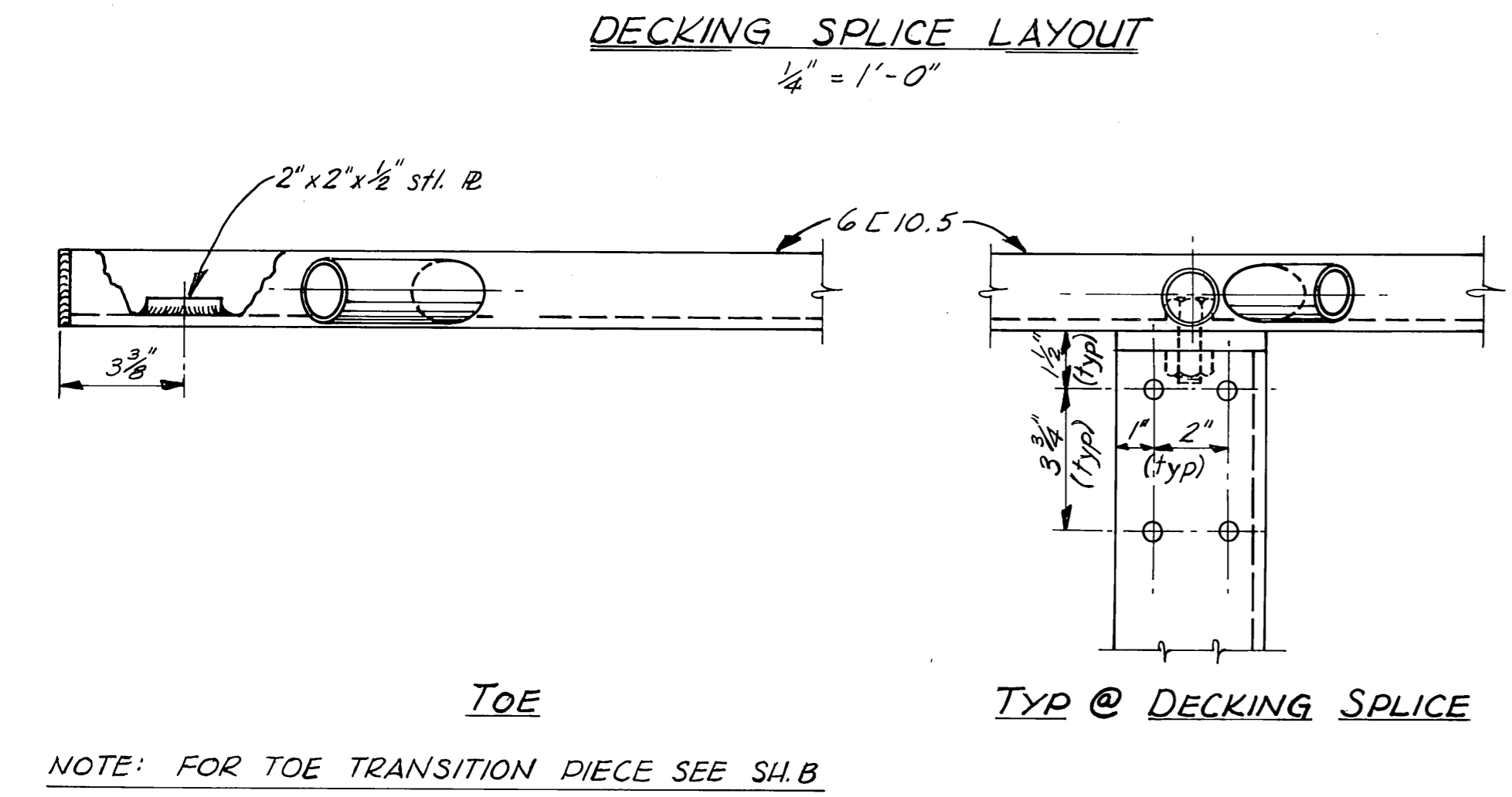
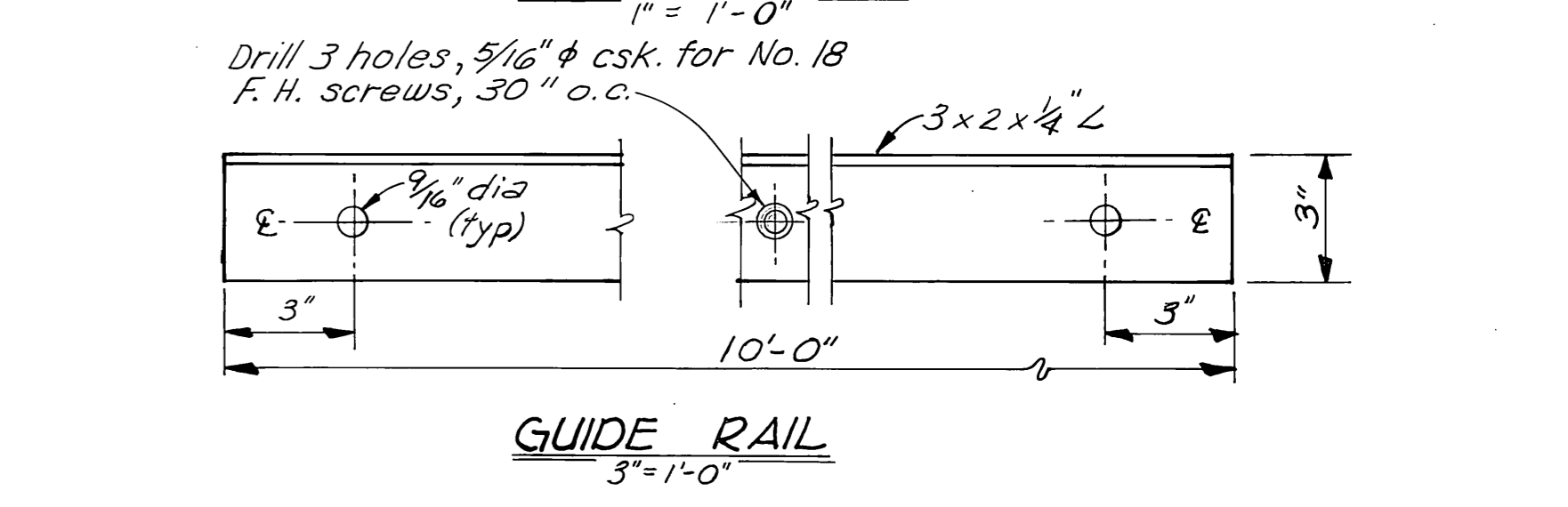
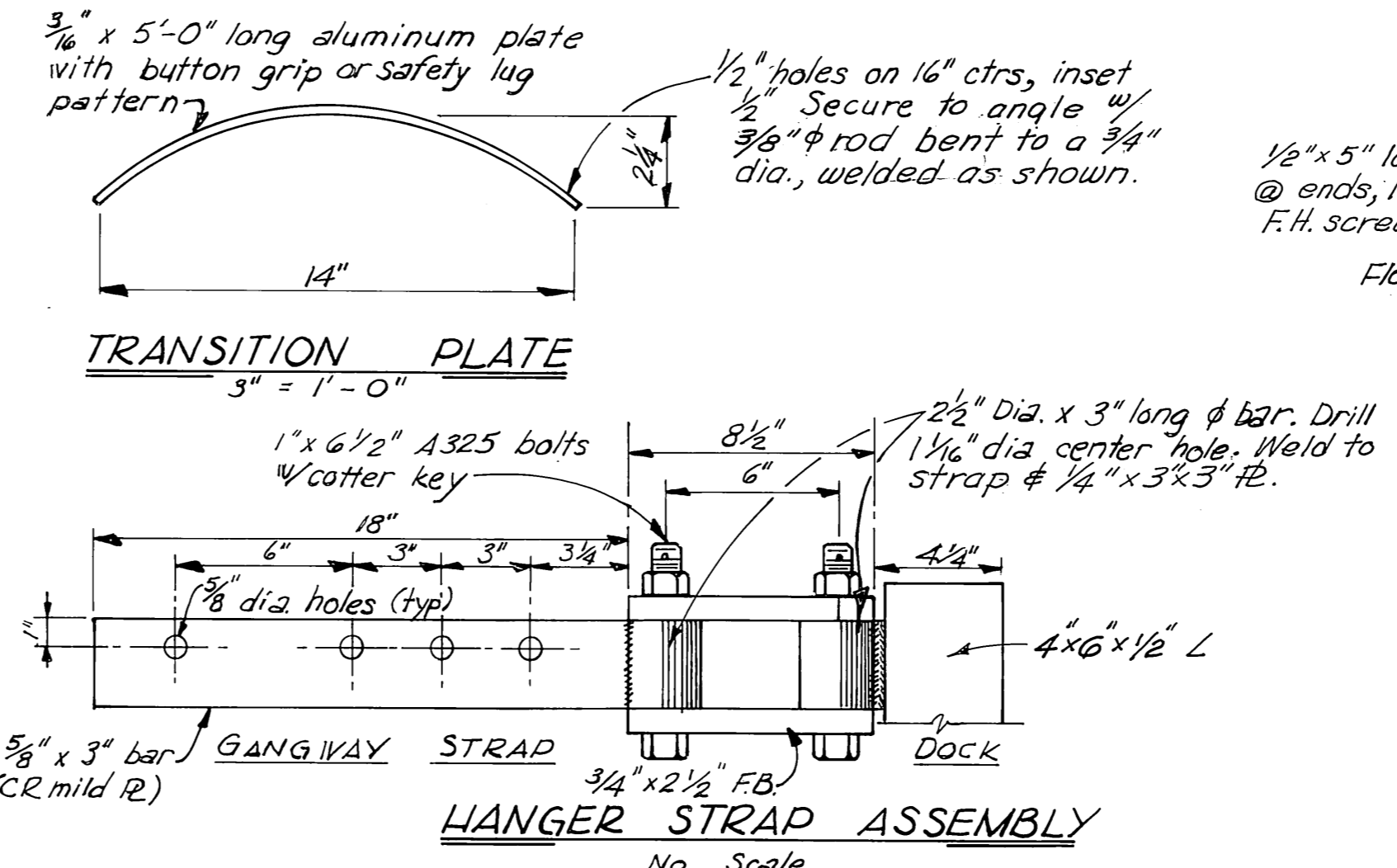
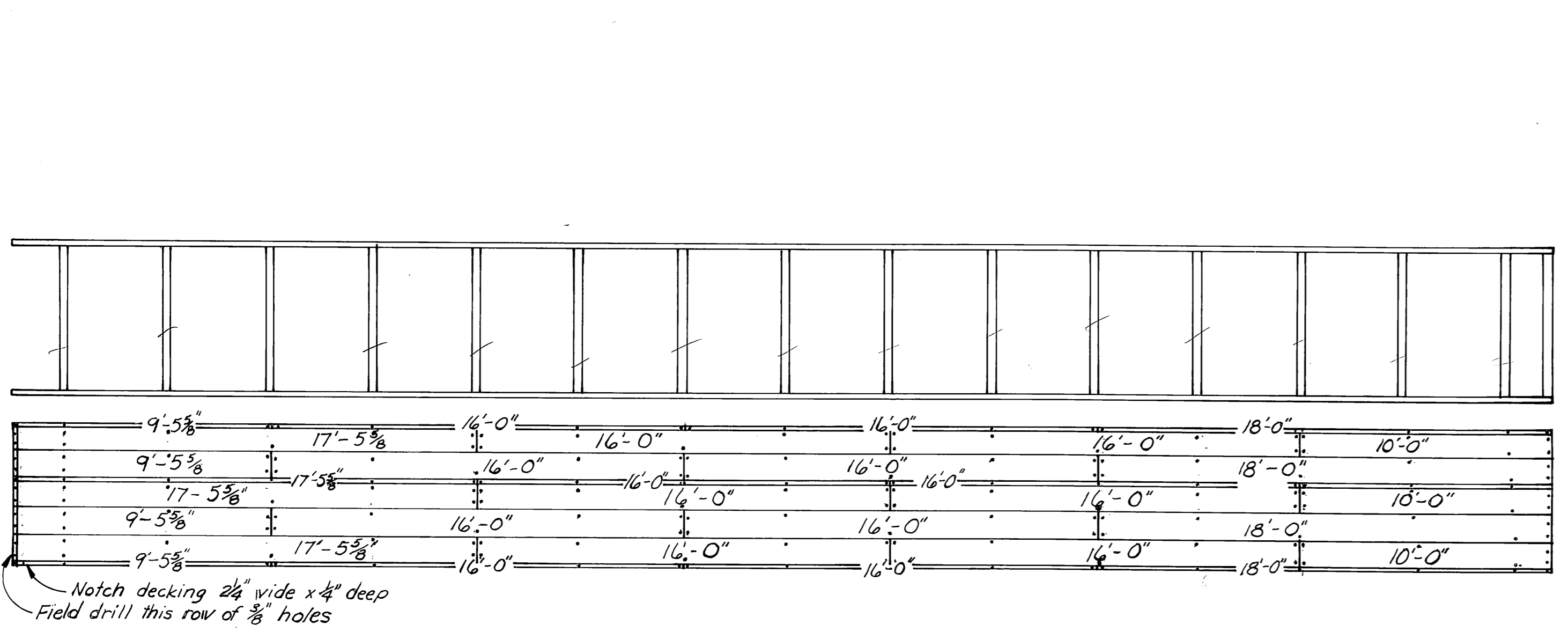
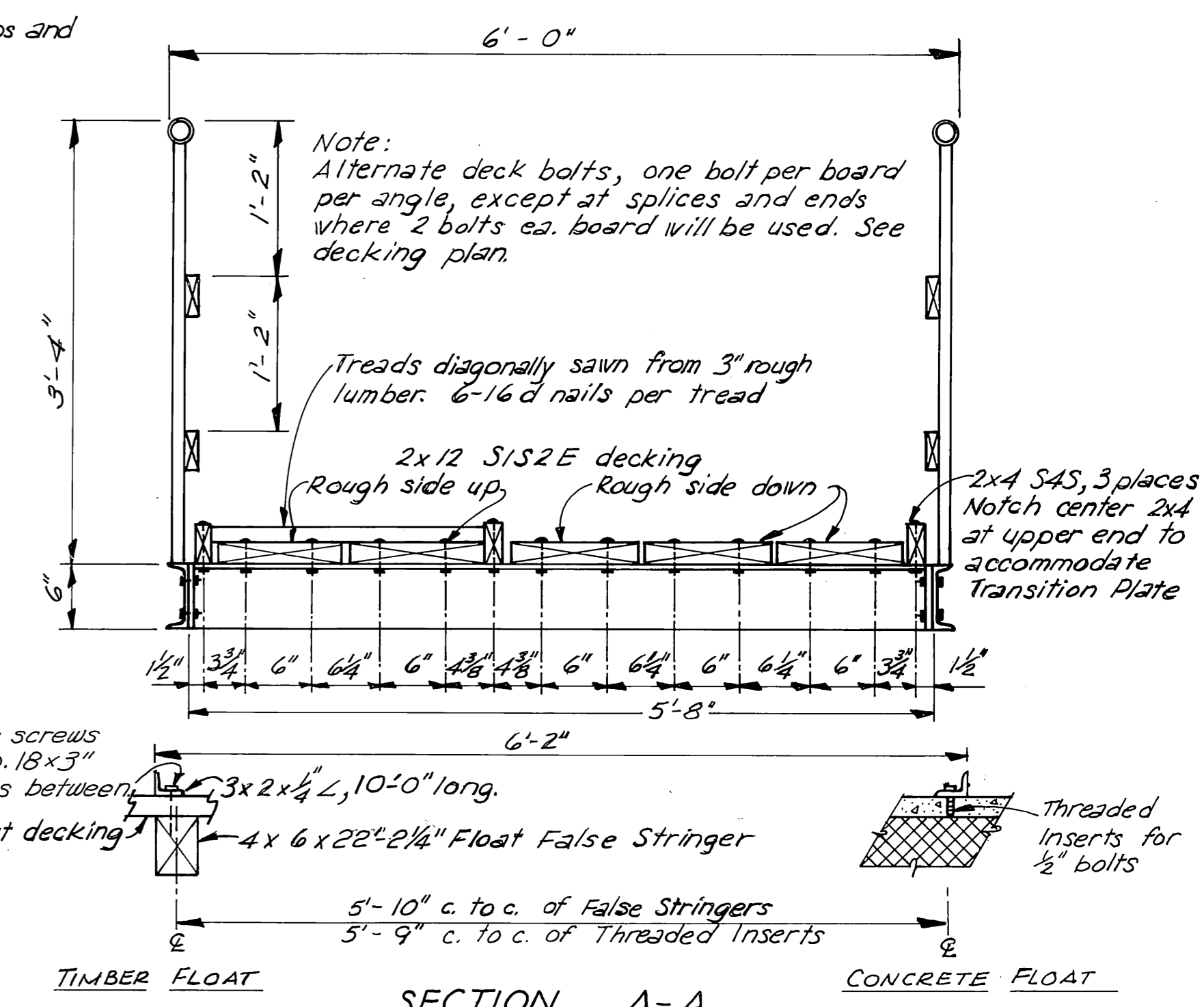
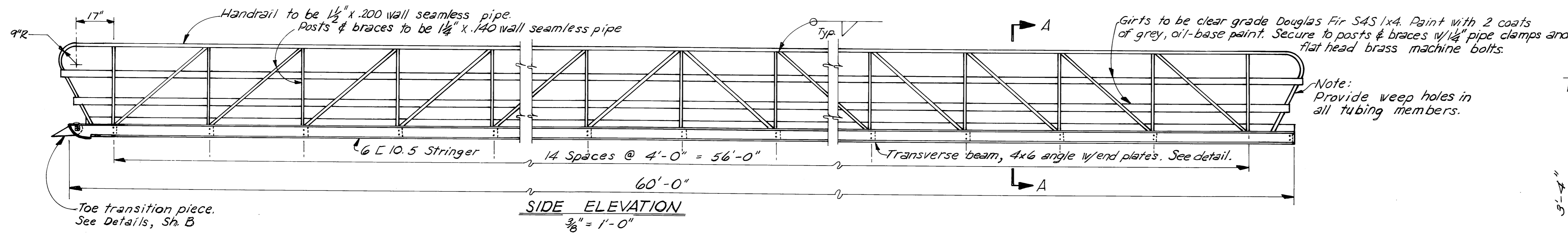


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STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

**HAINES**  
**SEAPLANE FLOAT**

SCALE: As Shown	SURVEYED:	APPROVED:
DESIGNED: DS#RB	DRAWN: ELS	Don Statter
CHECKED: DCW	DATE: Jan. 1978	DIRECTOR
PROJECT NUMBER: 5-78146-II	SHEET 6 OF 9A	

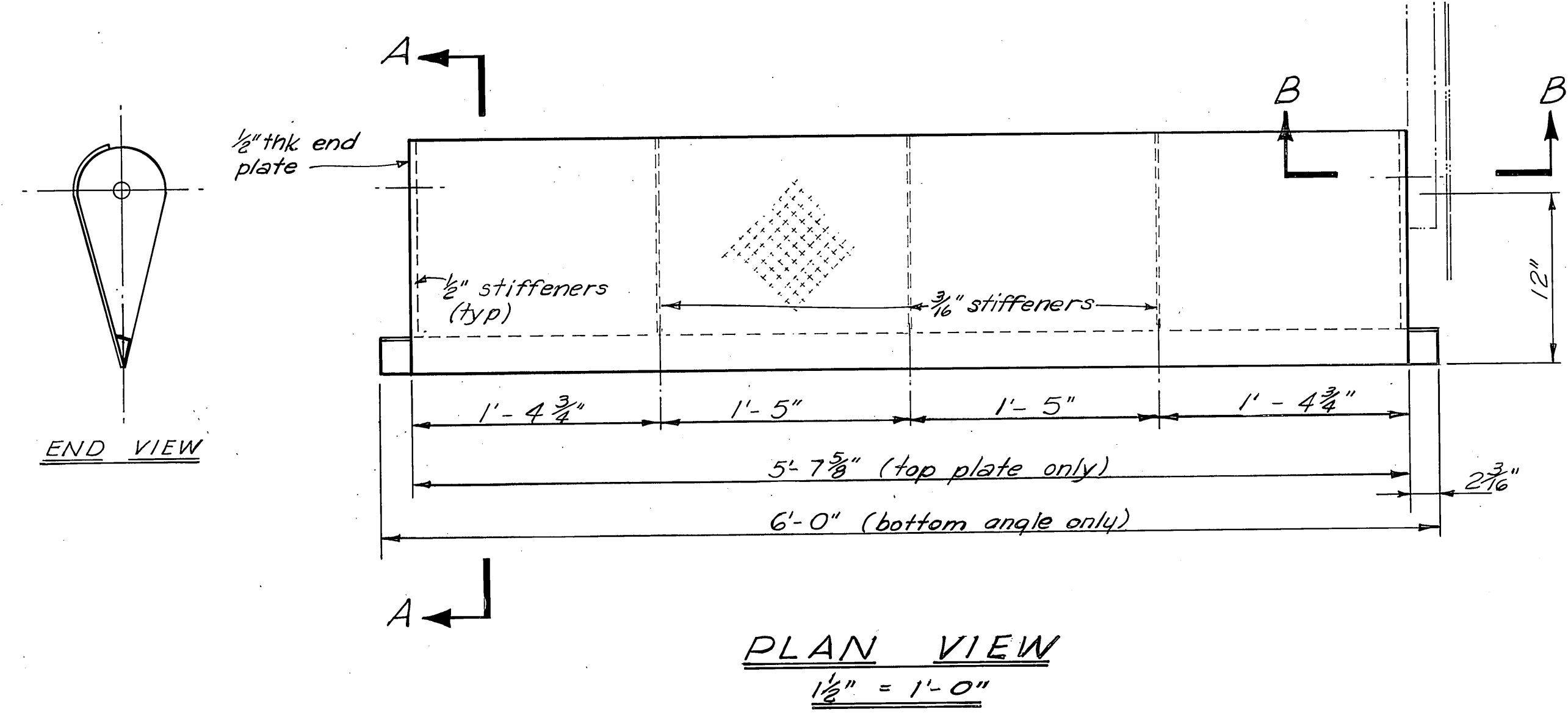


- NOTES:
1. All seamless pipe shall conform to ASTM A-501.
  2. All channels, angles & plates shall conform to ASTM A-36.
  3. Trusses shall be shop fabricated & assembled including hangers.
  4. Splices shall be held to a minimum and, where necessary, shall be made in a manner that will not reduce the 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, V.P. Denta or equivalent pressure treated to 0.4 lb. cu. ft. retention and shall be field drilled to match shop drilled holes in transverse members.
  9. Design Live Load - 35 psf.

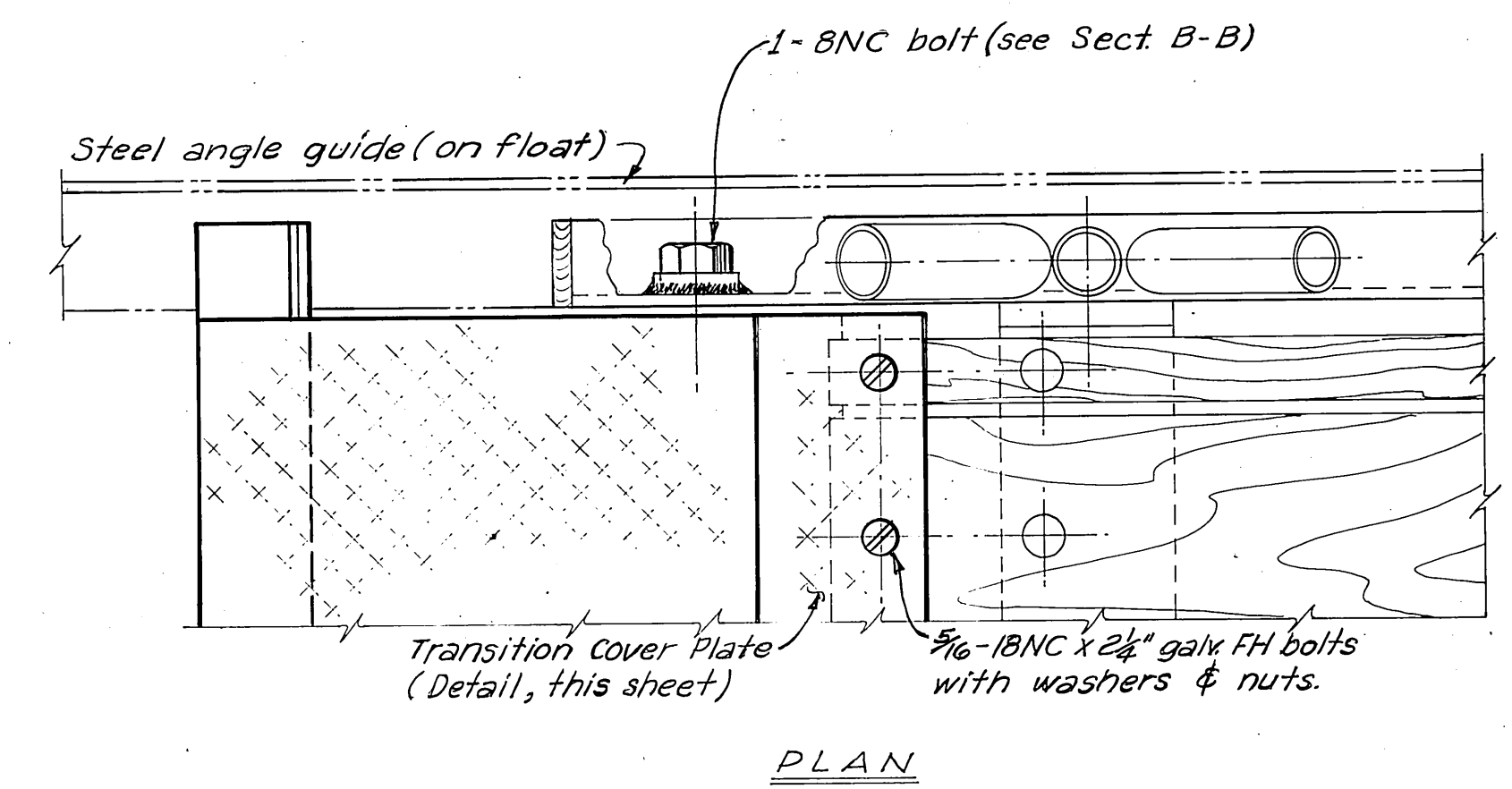
See attached shop drawings for gangway as-built & page 9A



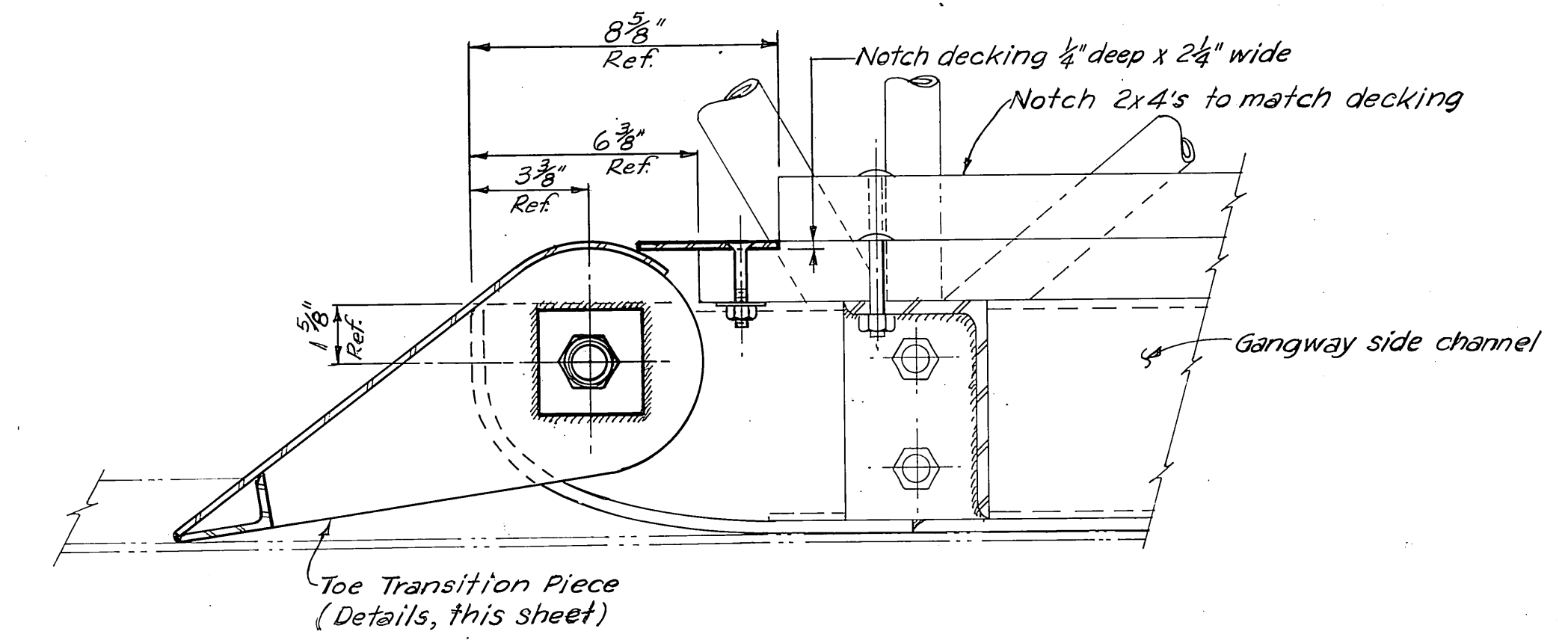
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>HAINES STEEL GANGWAY CONSTRUCTION DETAILS (SHEET A)</b>		
SCALE As shown	SURVEYED JM	APPROVED
DESIGNED JTR/B	DRAWN JM	Don Statter
CHECKED	DATE MAY 1977	DIRECTOR
PROJECT NUMBER 5-78146-II	SHEET 7 OF 9A	



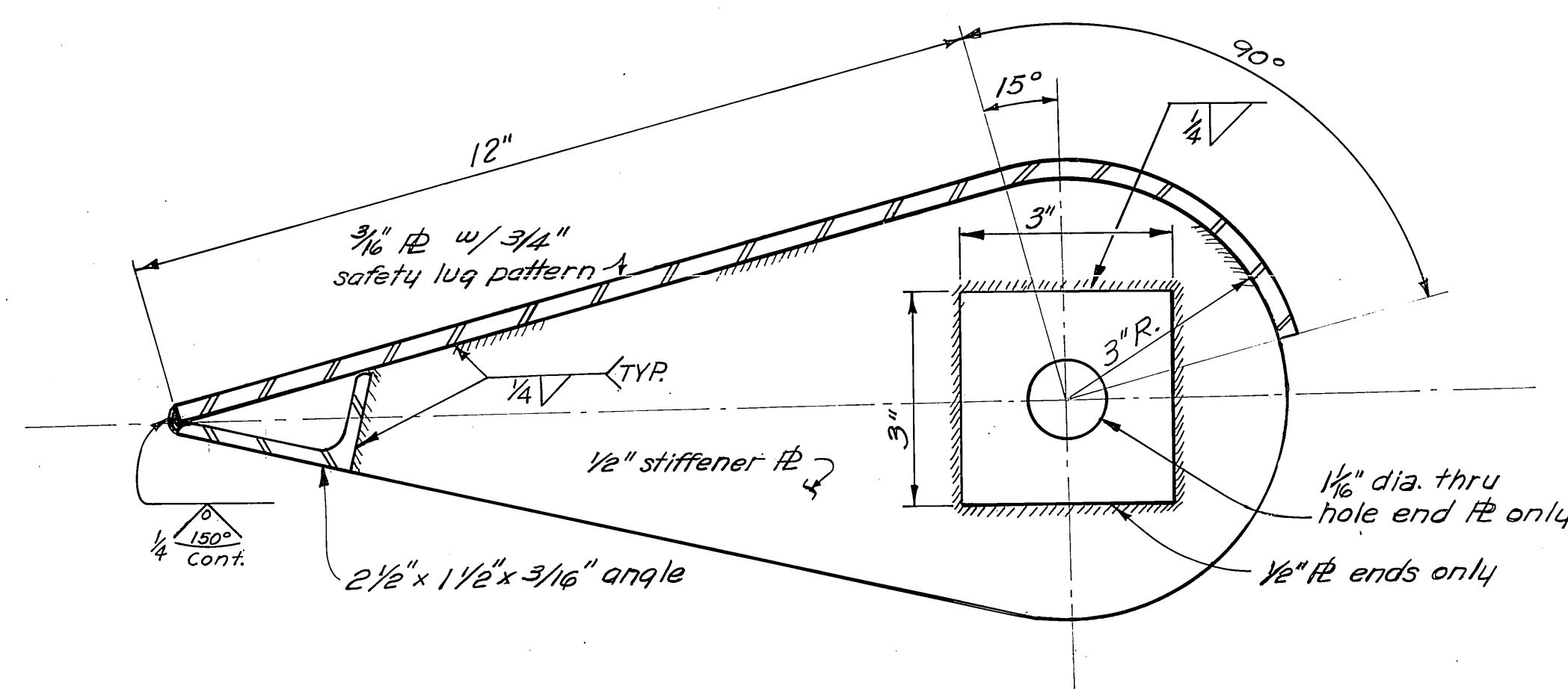
**PLAN VIEW**  
1/2" = 1'-0"



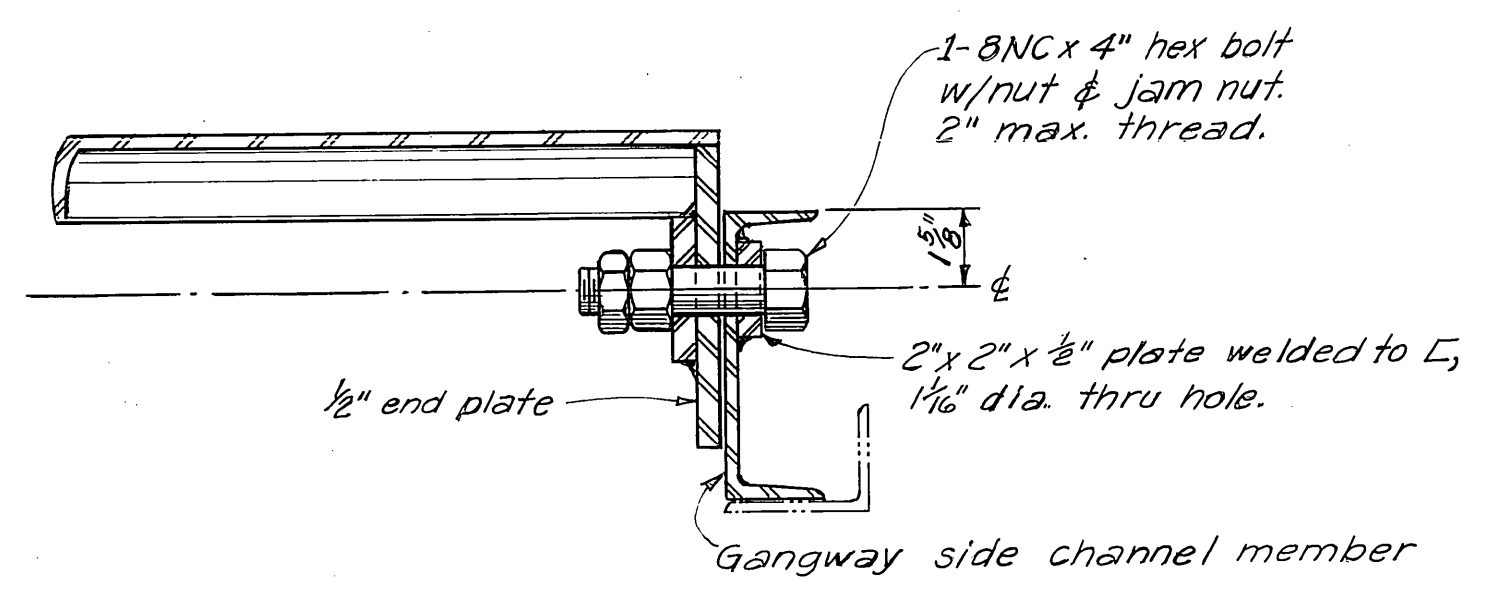
**PLAN**



**SECTIONAL ELEVATION**  
**ASSEMBLY DETAIL**  
3" = 1'-0"



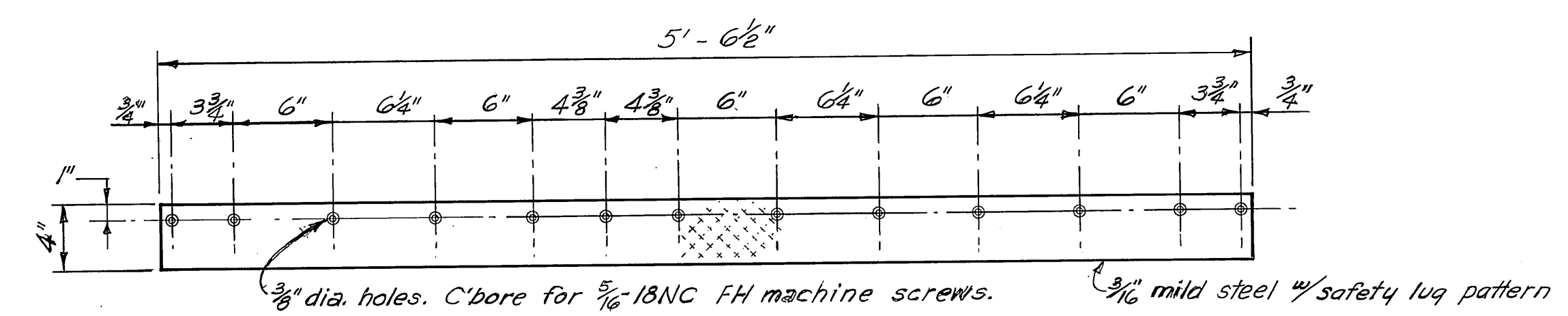
**SECTION A-A**  
SYMMETRICAL ABT. HORIZ.  $\phi$   
HALF SIZE



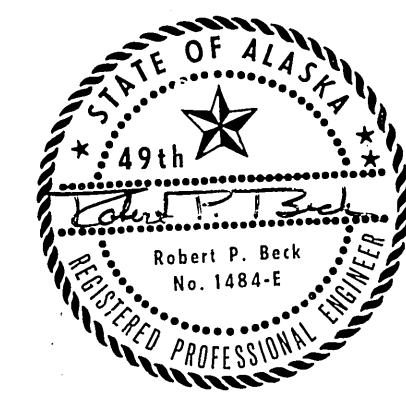
**SECTION B-B**  
3" = 1'-0"  
(TYP. EA. END)

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

See attached shop drawings for gangway as-built



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



Revised 1-28-75 Removed 6" pipe ELS

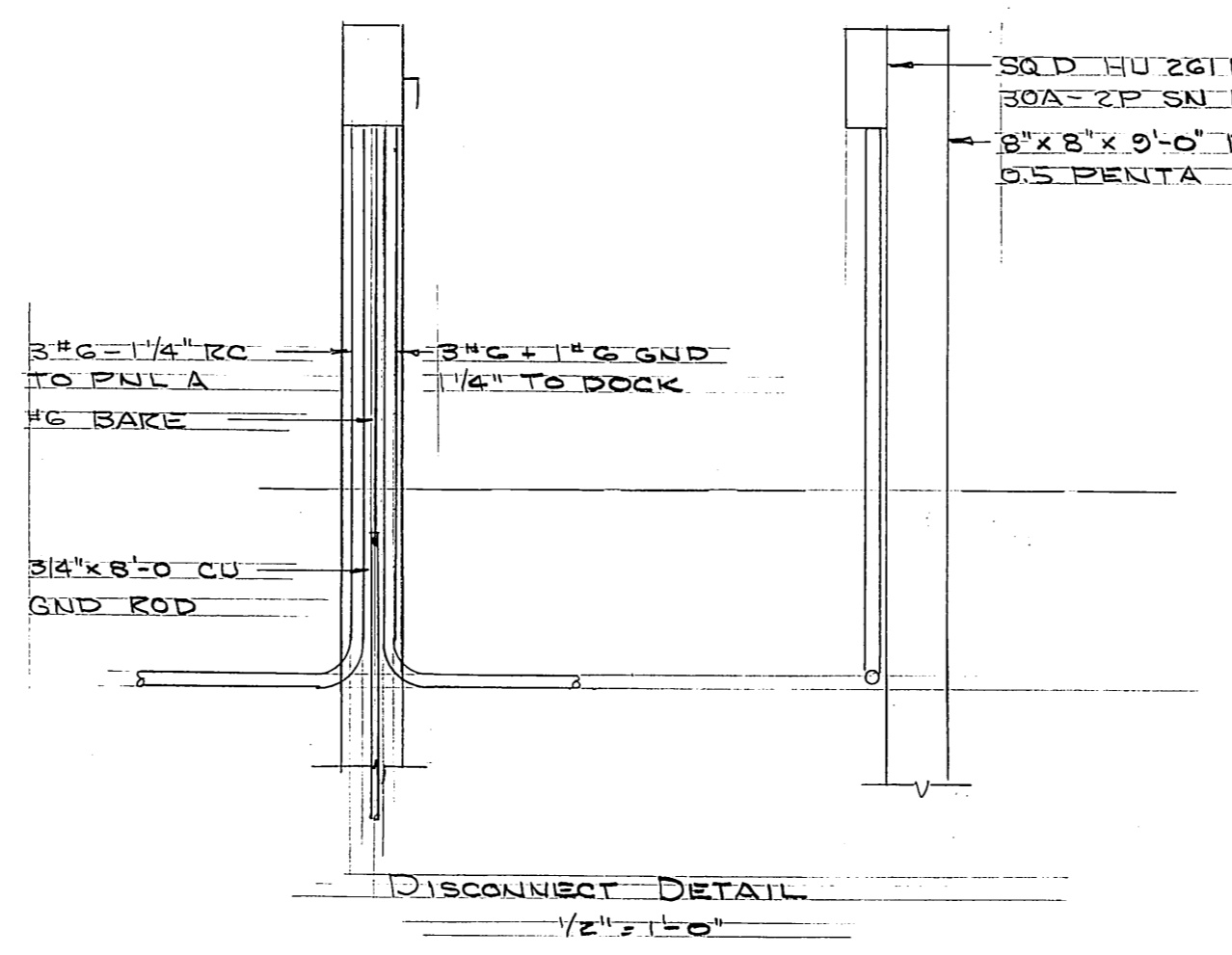
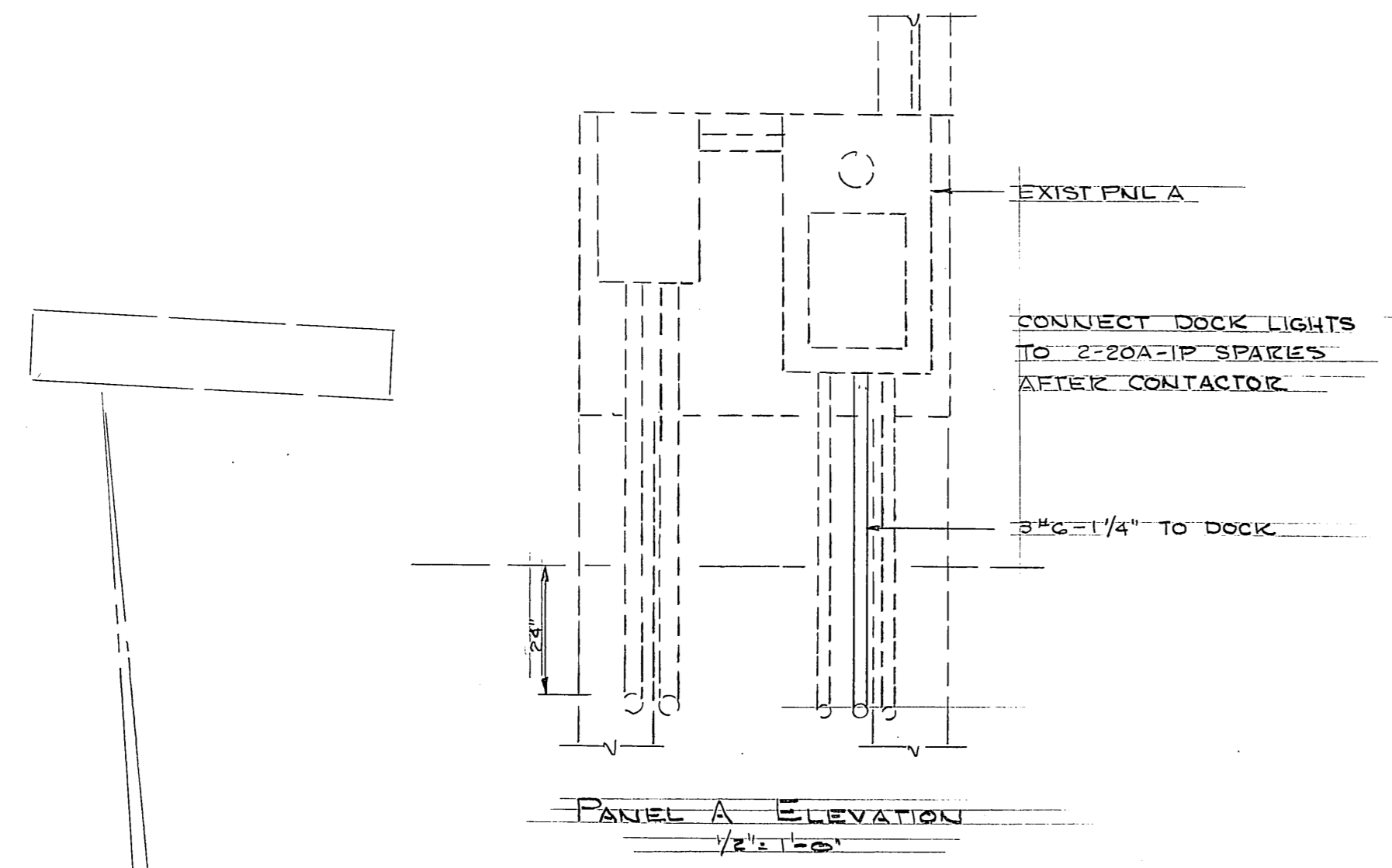
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

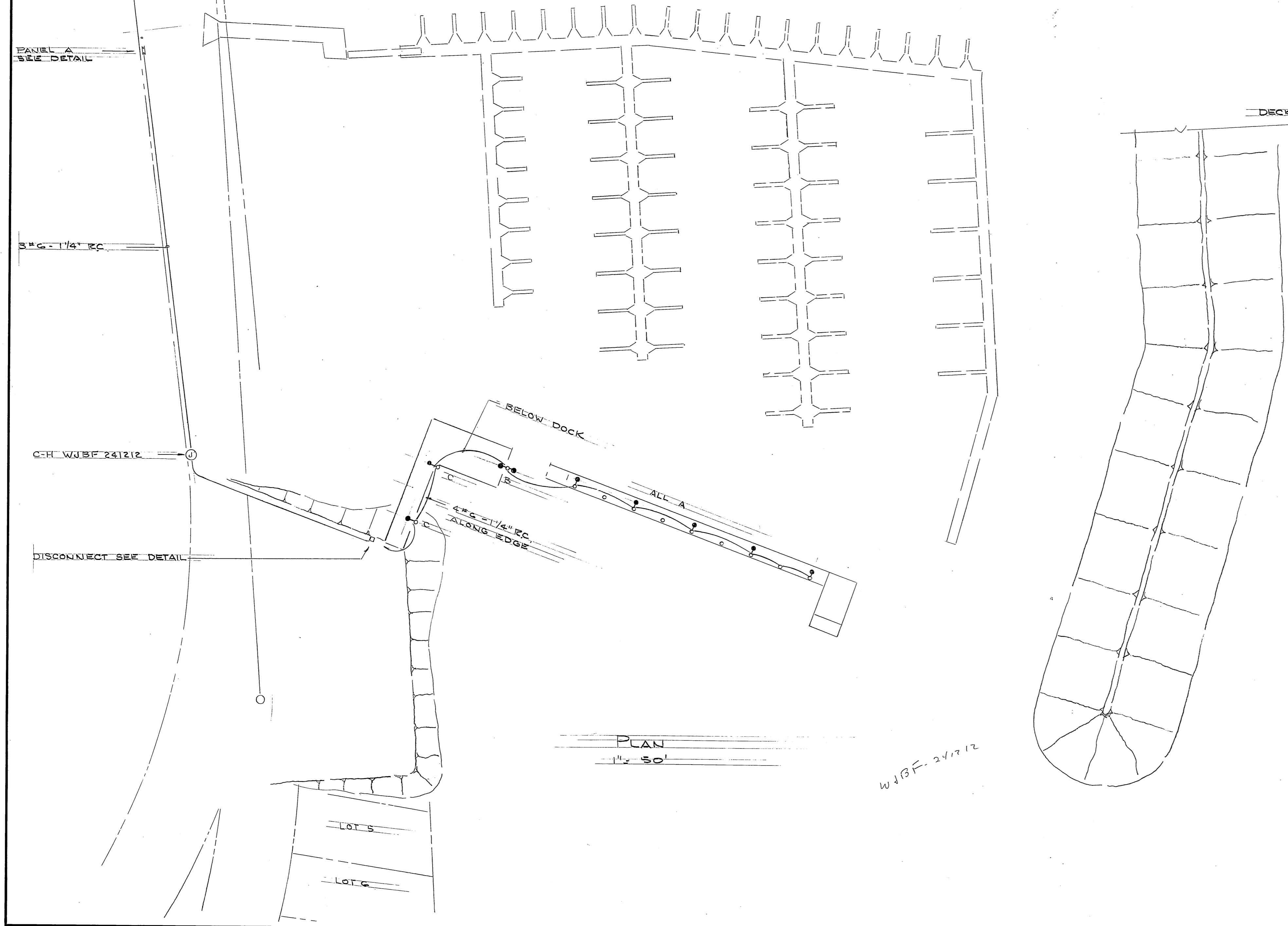
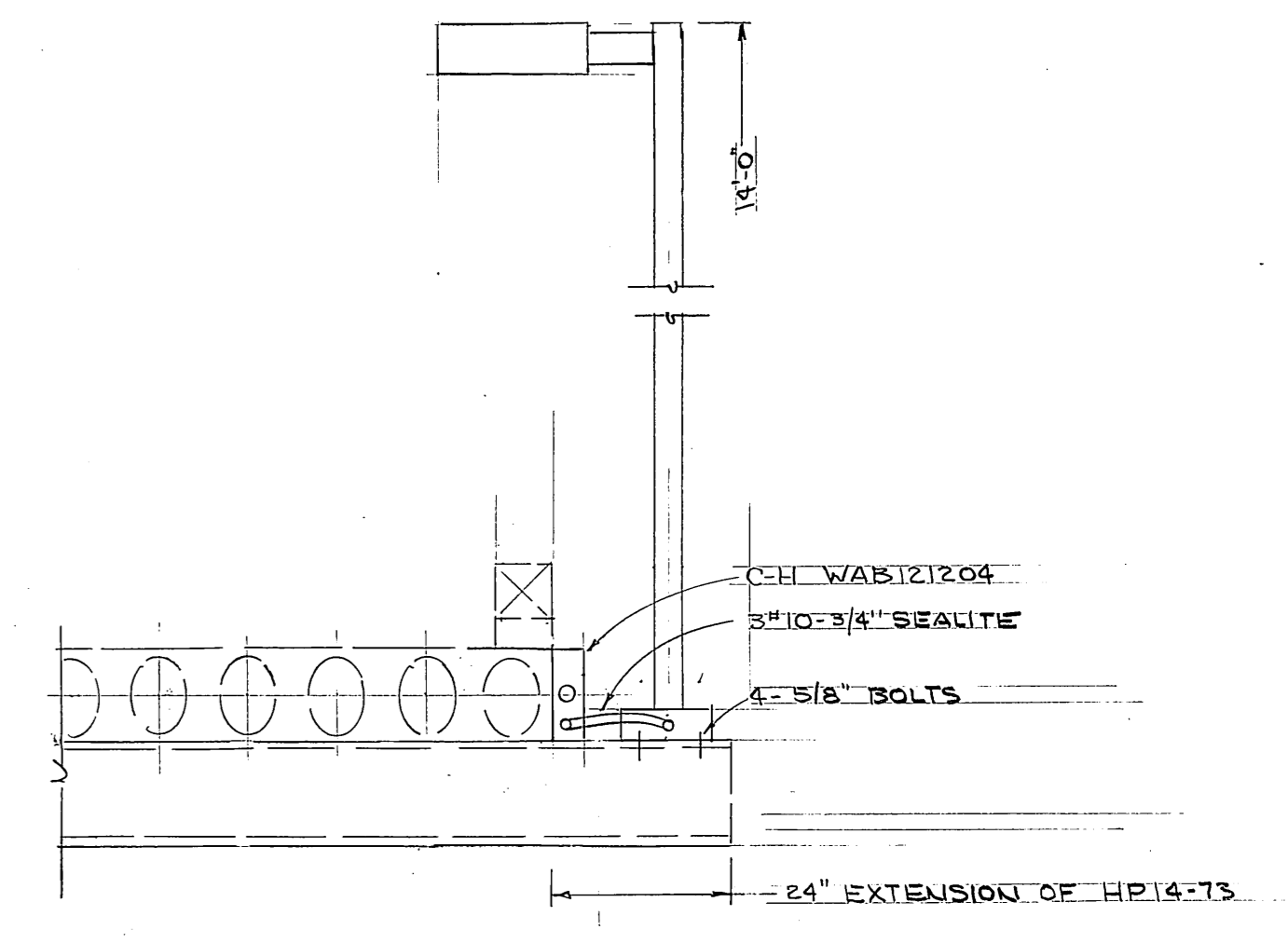
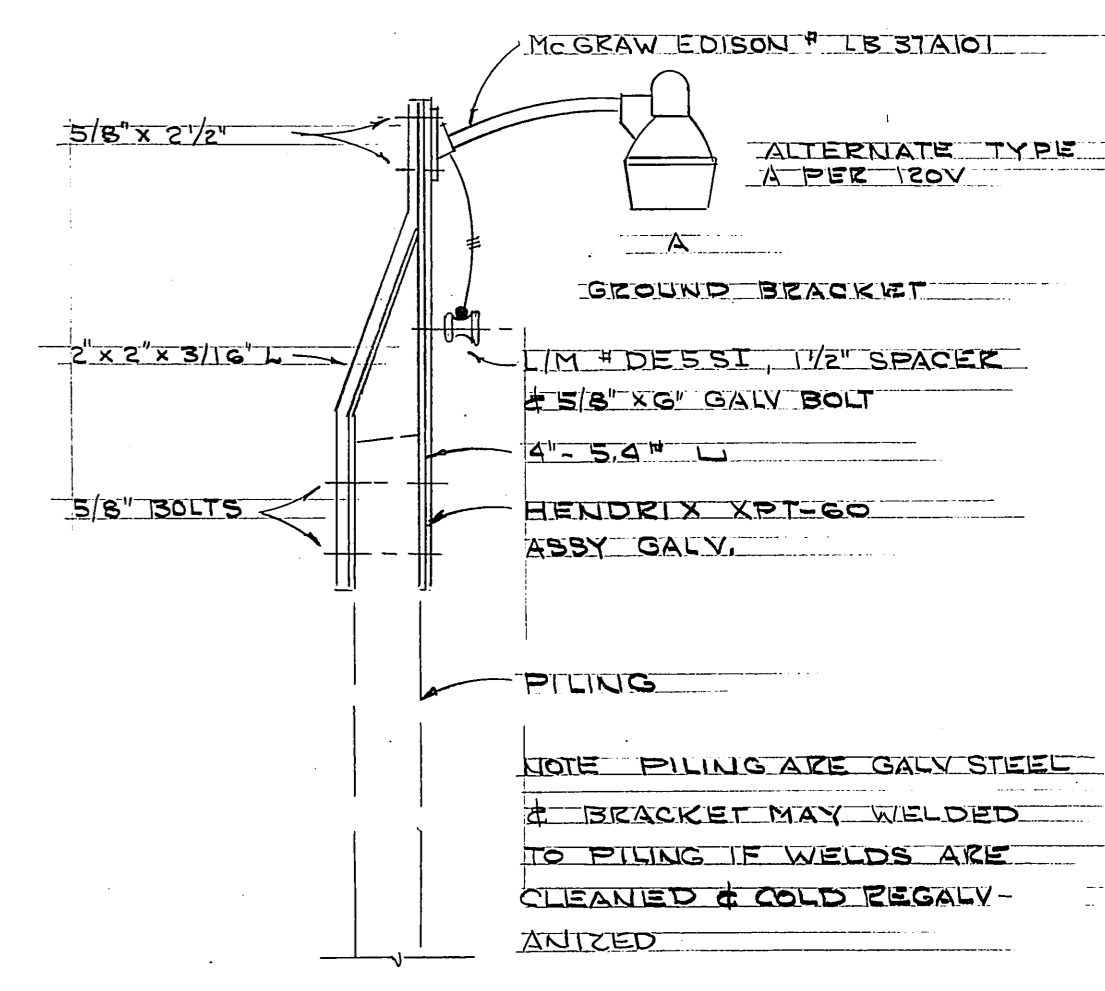
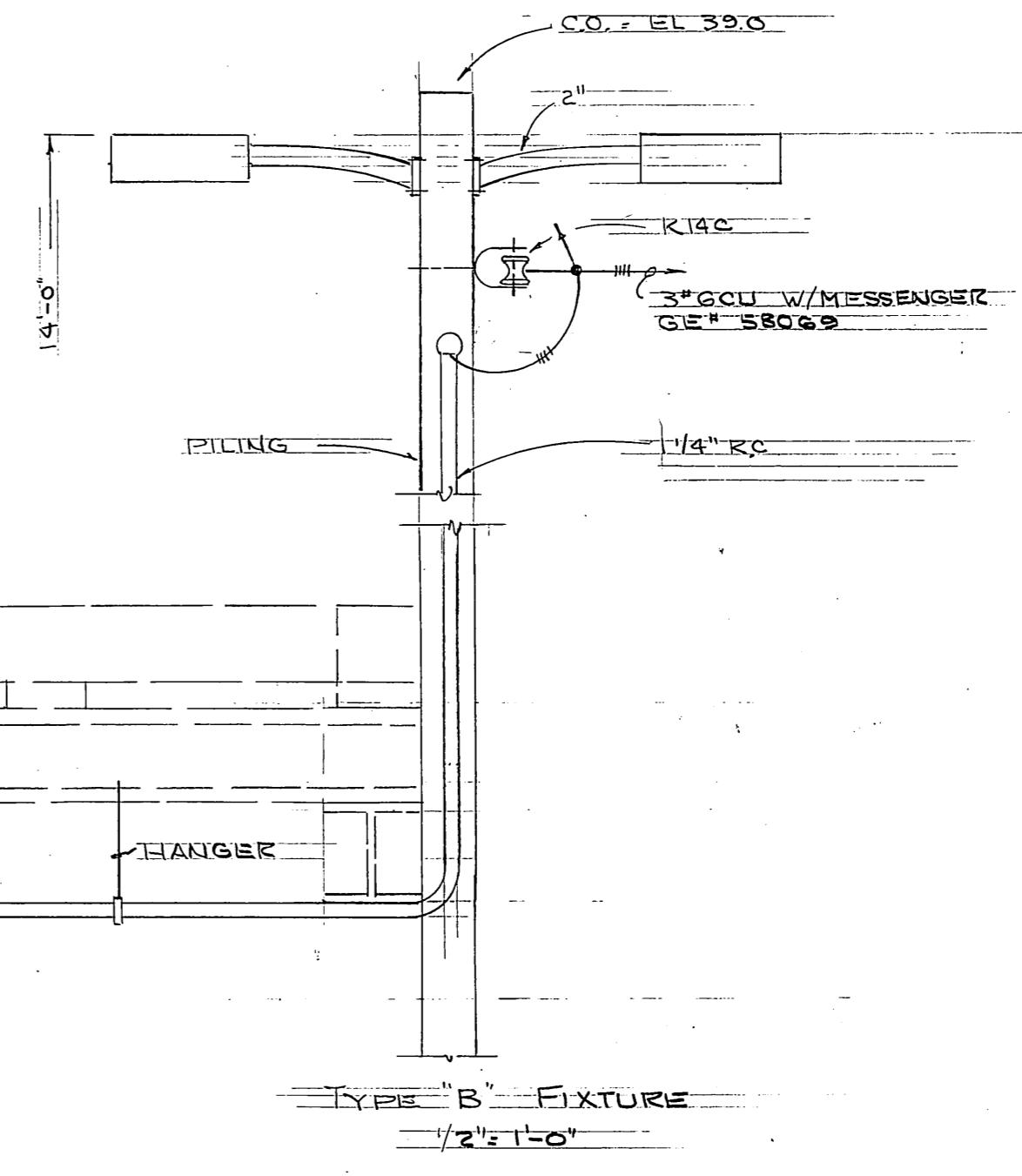
**HAINES**  
TYPICAL STEEL GANGWAY  
TRANSITION PIECE DETAILS  
(SHEET B)

SCALE As shown	SURVEYED	APPROVED
DESIGNED JET	DRAWN JET	Don Statter
CHECKED DSM	DATE 2-11-74	DIRECTOR
PROJECT NUMBER 5-78146-II		SHEET 8 OF 9A

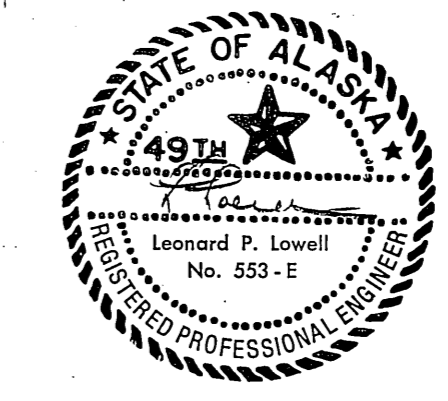




FIXTURE SCHEDULE				
TYPE	MFG		W	REMARKS
A	MCGRAW EDISON	LOT1YG	175 MV	ON PILING
B		CH14041	2-175 MV	SEE DETAIL
C		CH11041 & PA2005	175 MV	
ALL 120V B&C WITH SUFFIX BZ (BRONZE & H (HANDHOLE))				



AS BUILT



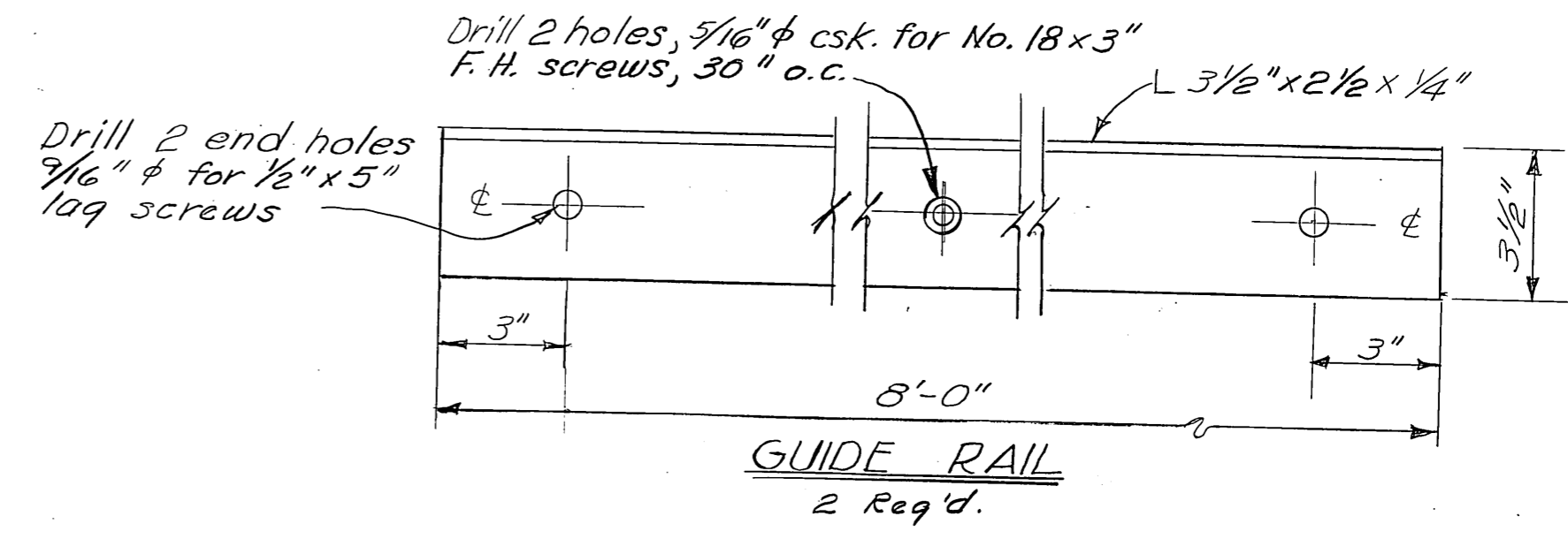
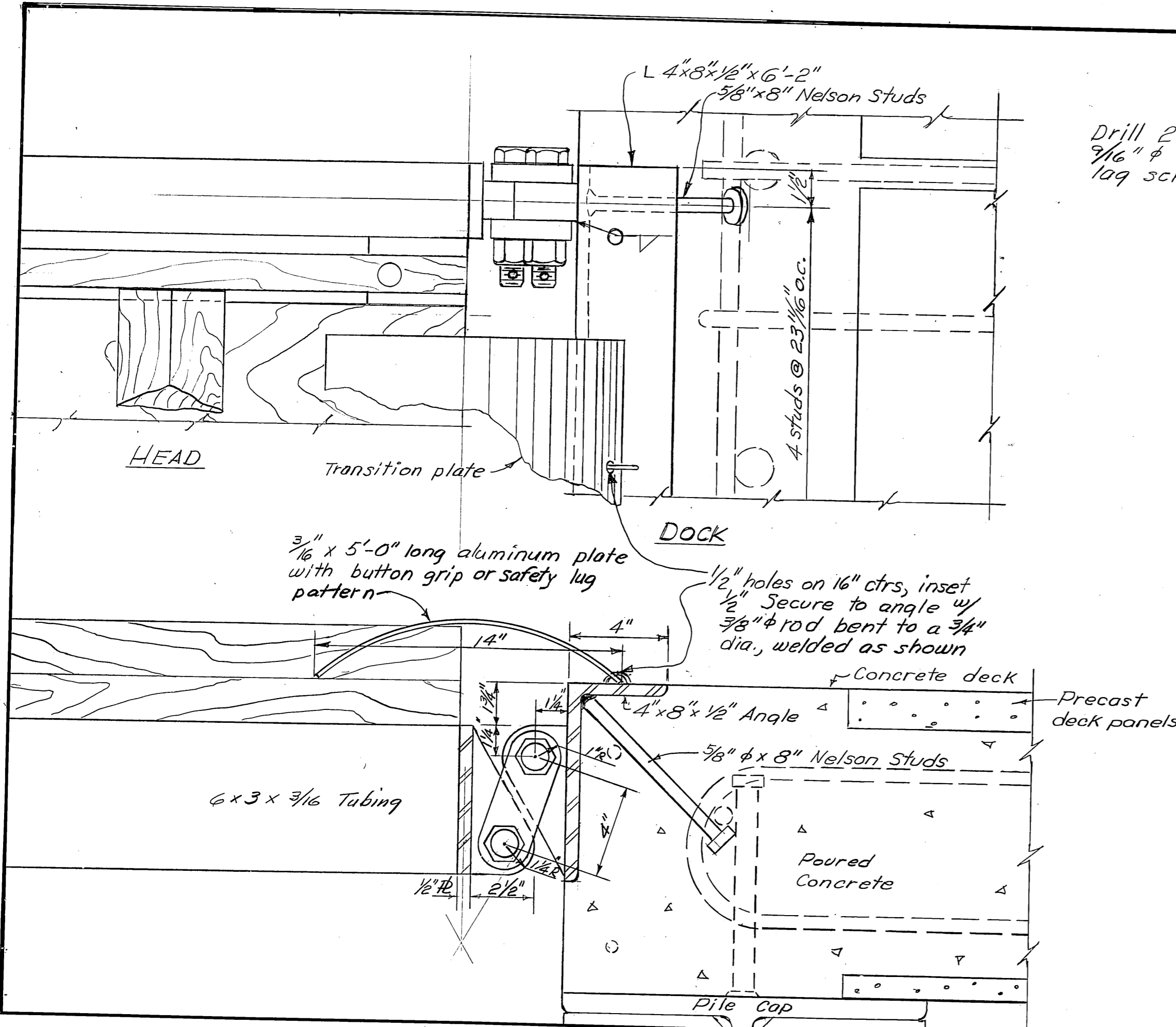
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

LIGHTING PLAN  
HAINES DOCK

HAINES ALASKA

SCALE NOTED	SURVEYED	APPROVED
DESIGNED KPL	DRAWN	DIRECTOR
CHECKED	DATE	
PROJECT NUMBER 5-78146-II	SHEET 9 OF 9A	



AS BUILT

STAMP	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
	HAINES HINGE-TRANSITION PLATE-GUIDE RAIL for 74' GANGWAY	
	SCALE 3"=1'-0"	SURVEYED _____ DRAWN <u>ELS.</u> DATE <u>Oct. 1978</u>
DESIGNED _____	CHECKED _____	PROJECT NUMBER <u>5-78146-II</u>
SHEET <u>9A</u> OF <u>9A</u>		