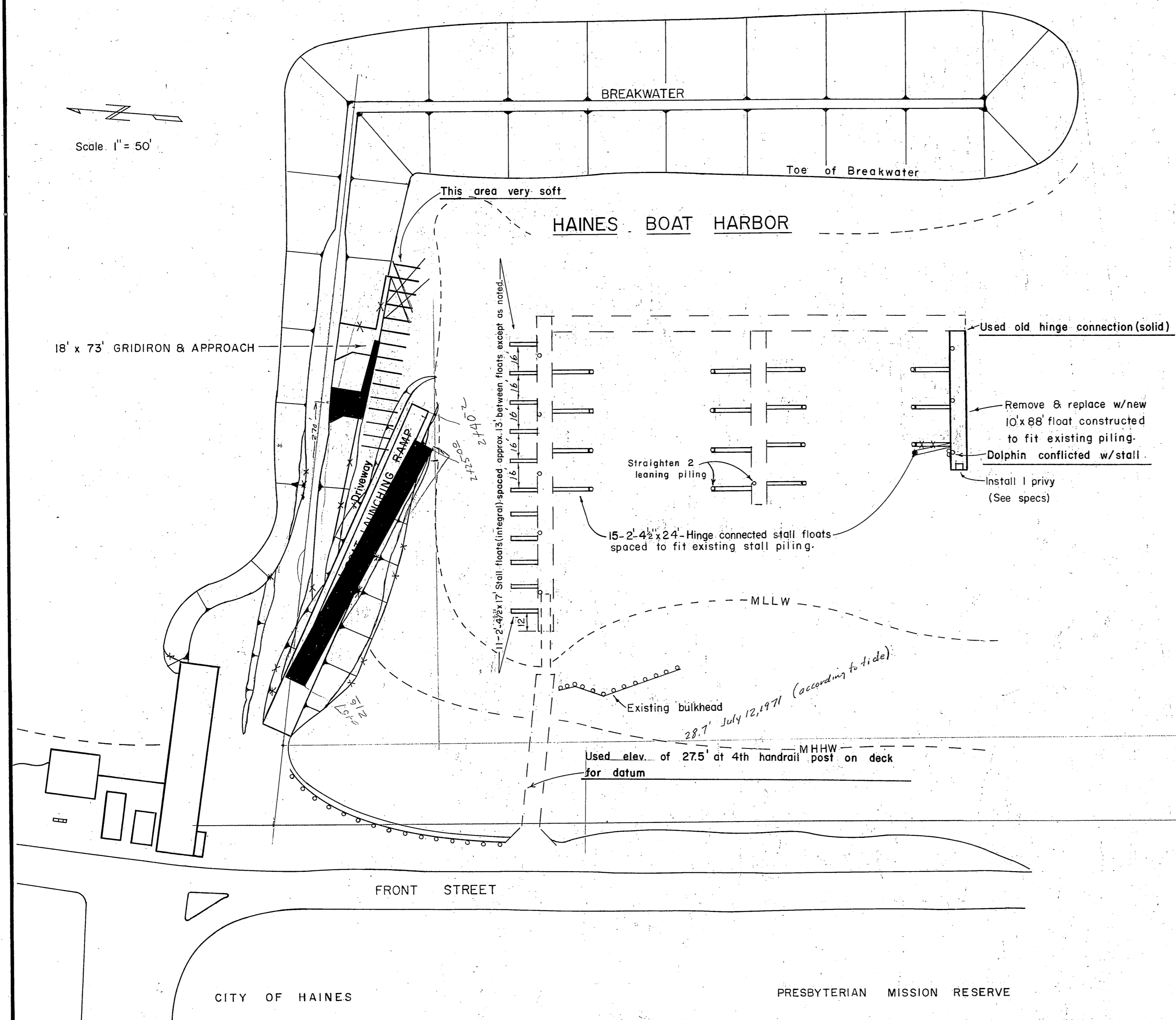
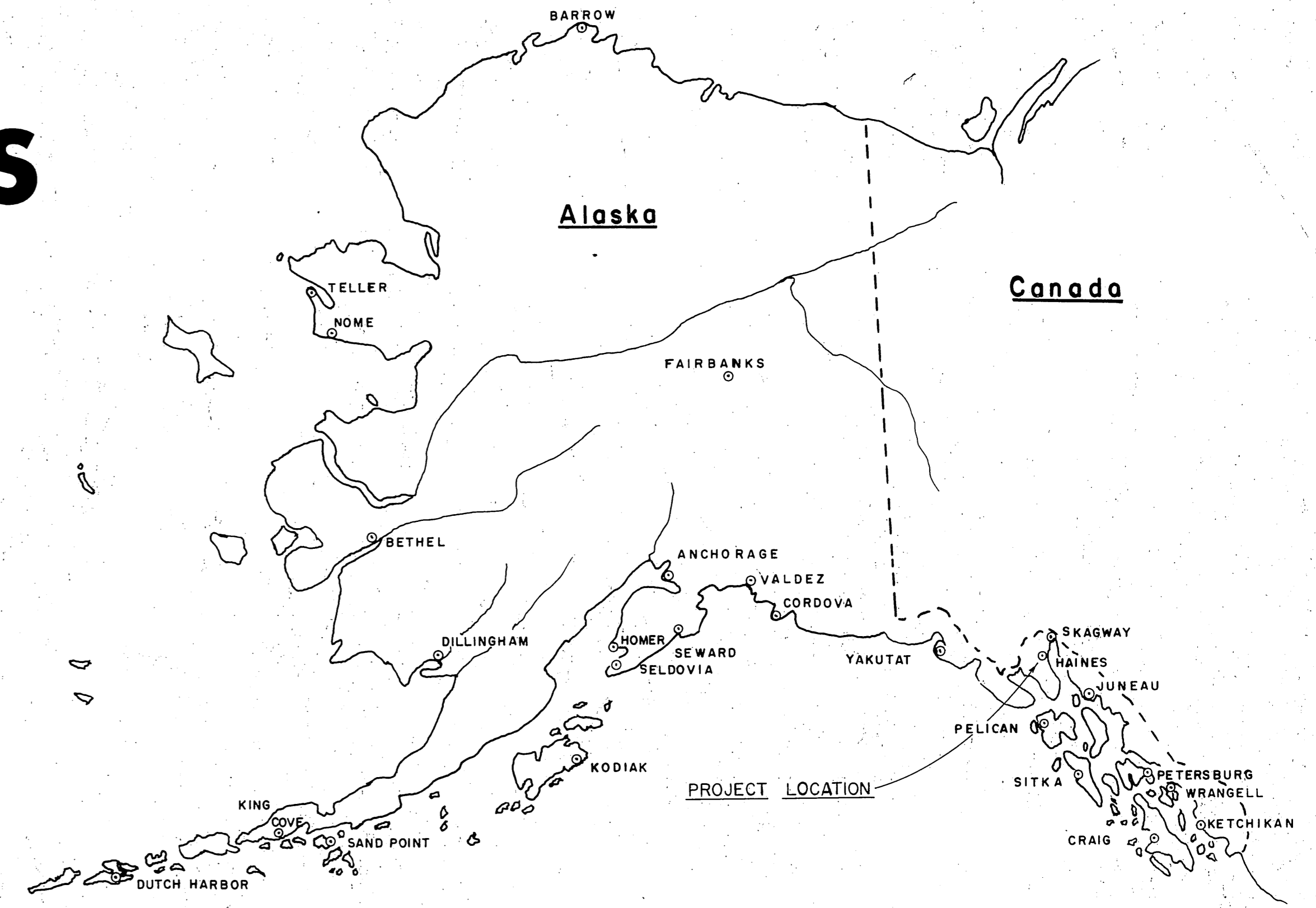
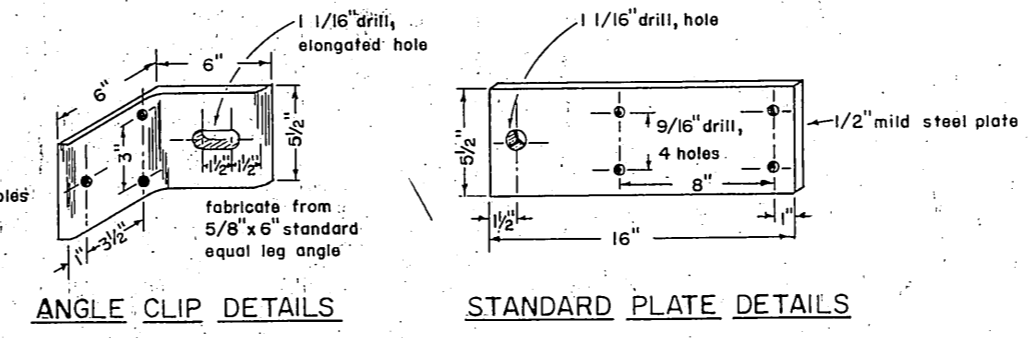


STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
**DIVISION OF WATER & HARBORS**

HAINES BOAT HARBOR FACILITIES  
PROJECT NO. 3-68166



Painted native deck & bullrails with S.O. wood preservative (Oct., 1967)  
All native except new 10' x 88' finger & stall floats

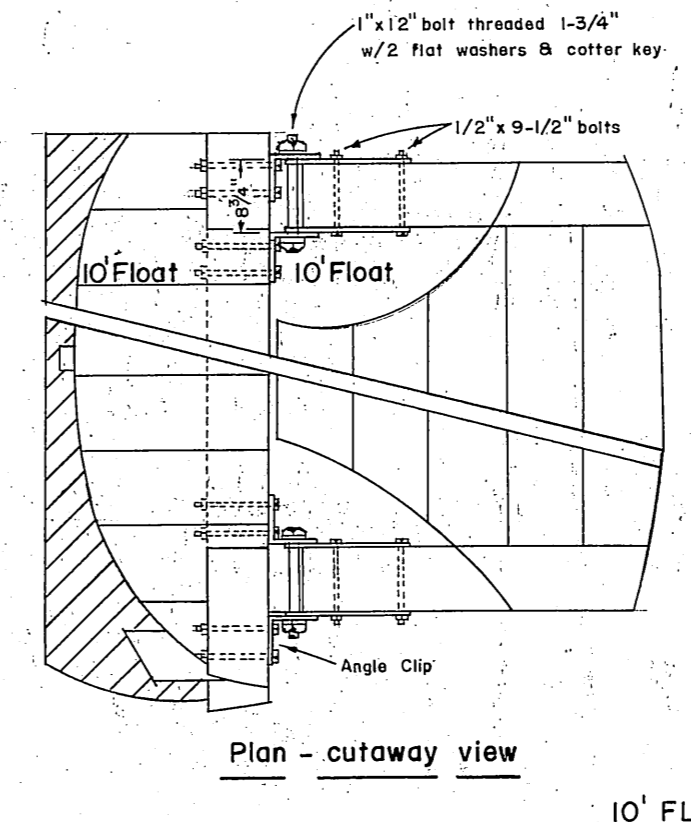
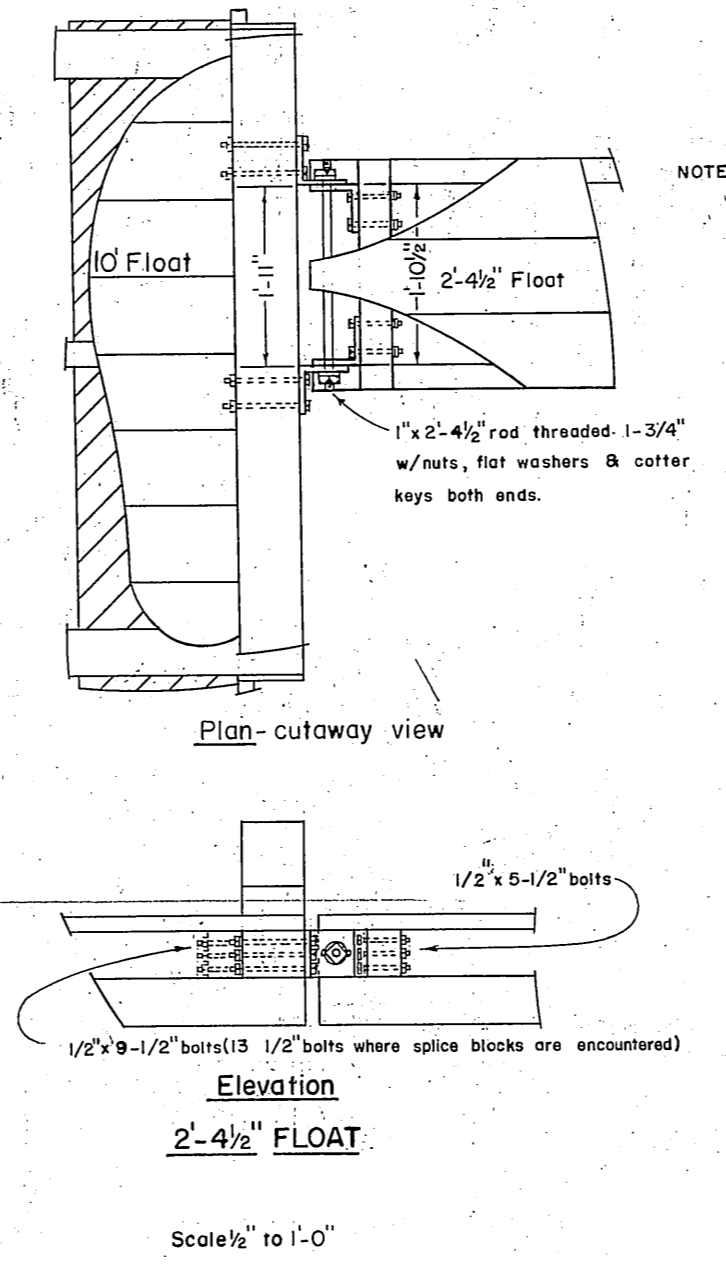


**WORK SUMMARY**

Major units of this project shall include the removal & disposal of the existing stall floats & 10' x 88' finger float, the construction & installation of 2145 S.F. of new floats, the construction of an 18' x 73' gridiron & construction of a 12' x 168' prestressed concrete boat launching ramp & associated earthwork.  
Used Pozzolite in concrete

**INDEX TO SHEETS**

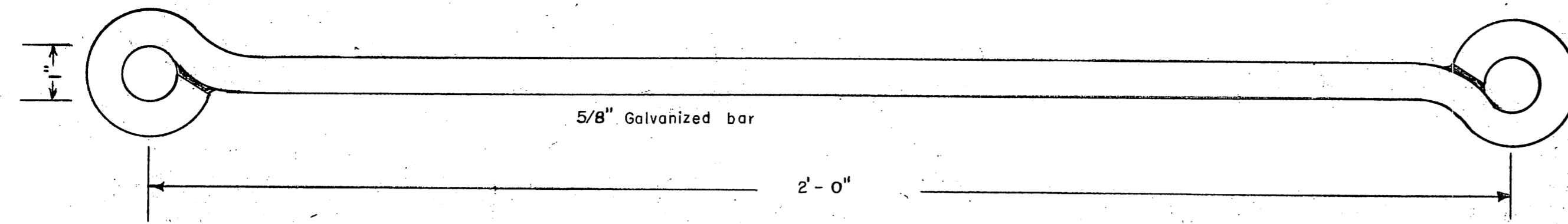
TITLE & LOCATION	SHEET
GRID & 10' FLOAT CONSTRUCTION, DET'L'S	1
BOAT LAUNCHING RAMP DET'L'S	2
TYPICAL STALL FLOATS	3
23' STALL FLOATS	4



AS BUILT

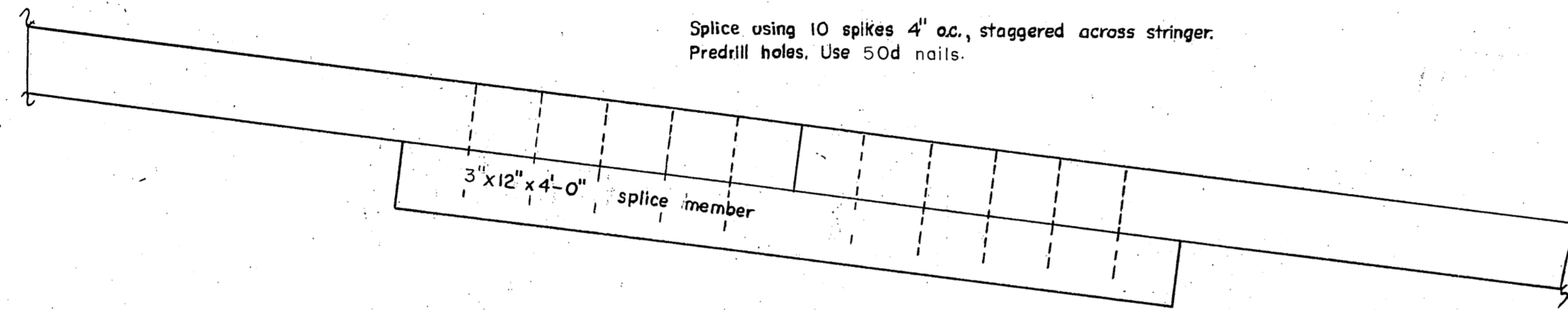
DATE Mar. 31, 1967 APPROVED George R. MacFarlane  
COMMISSIONER





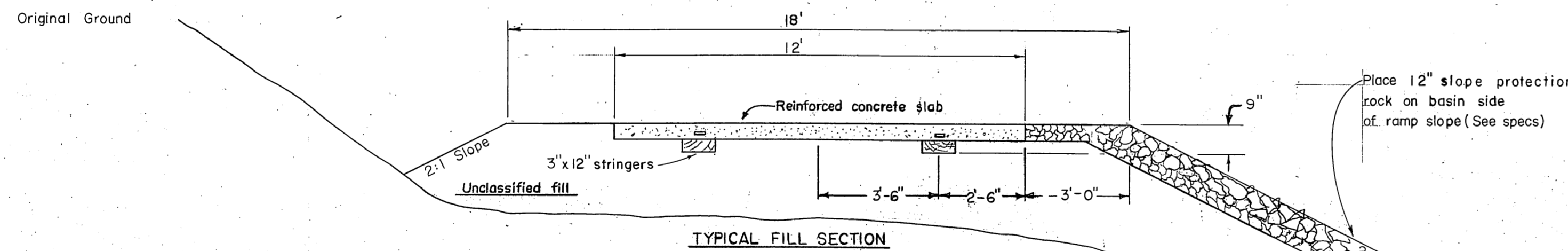
**CONNECTING BAR DETAILS**  
Scale 1" = 2'

Stringers to be 3x12 timbers, 8# retention creosote treatment. Used creosote material may be used if in sound condition. Minimum length to be 16' & spliced as shown.

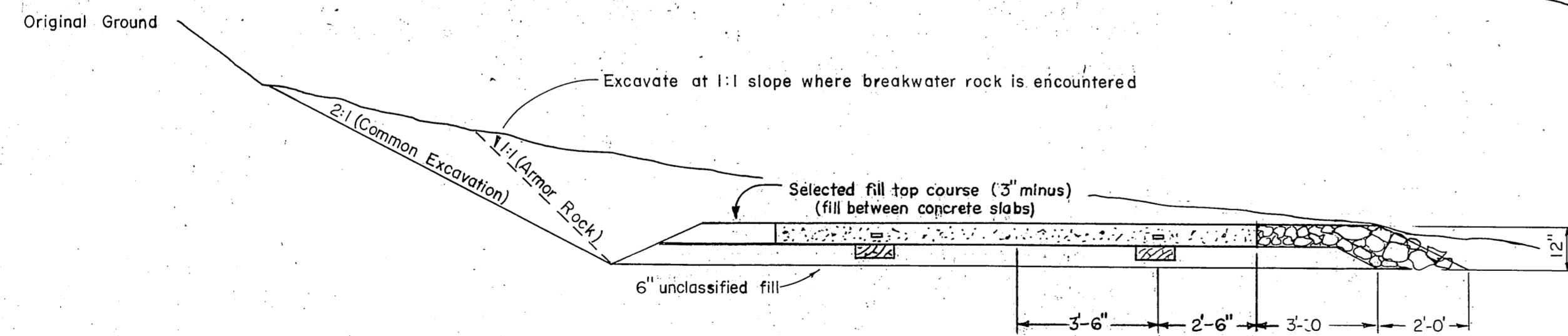


**STRINGER SPLICE DETAIL**  
Scale 1/2" = 1'-0"

**USED SOLID POUR SLAB**

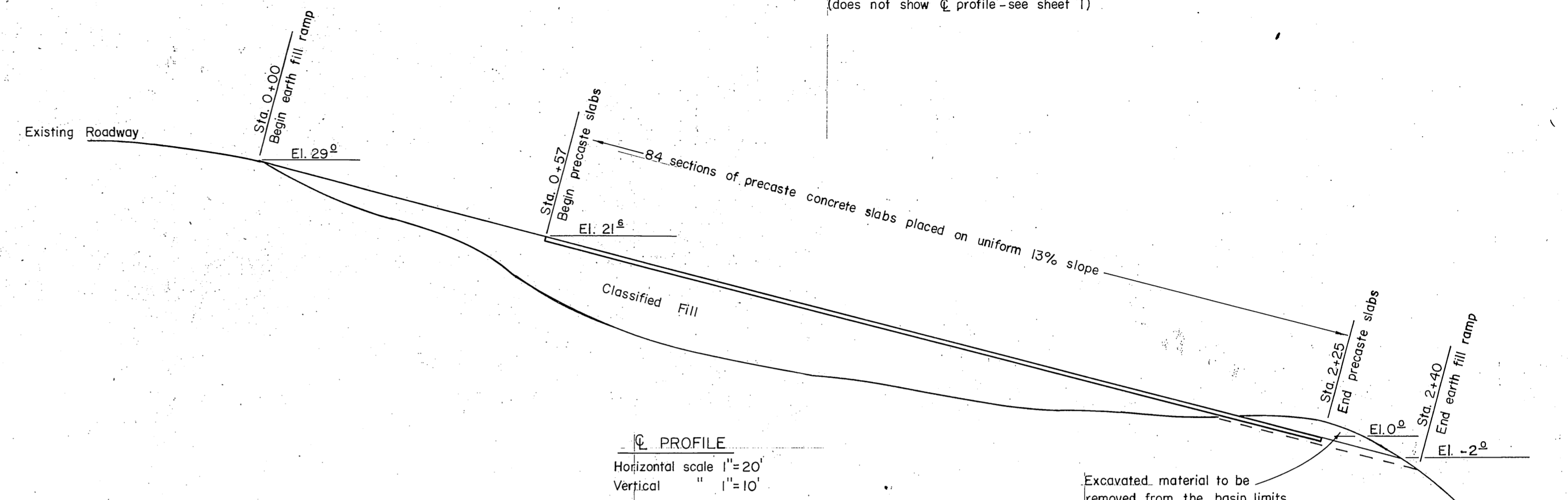


**TYPICAL FILL SECTION**

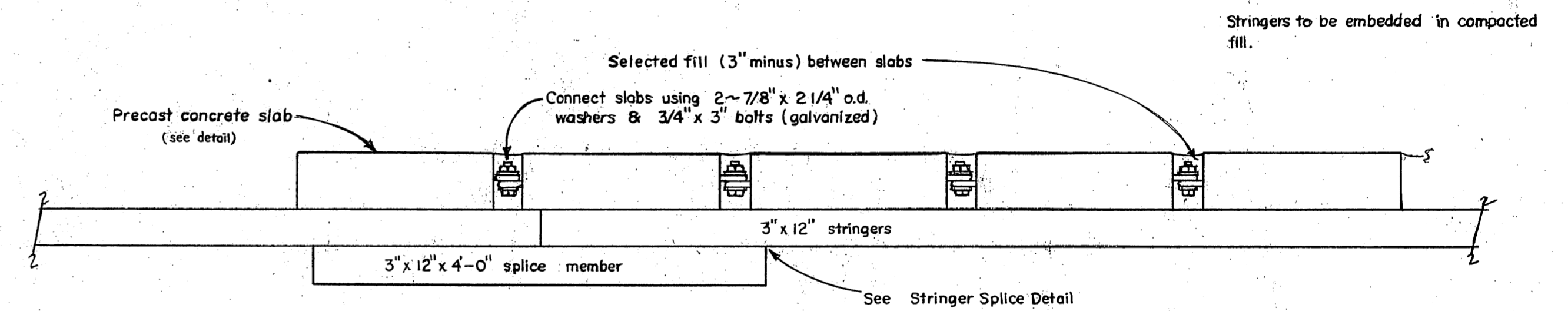


**TYPICAL CUT SECTION**

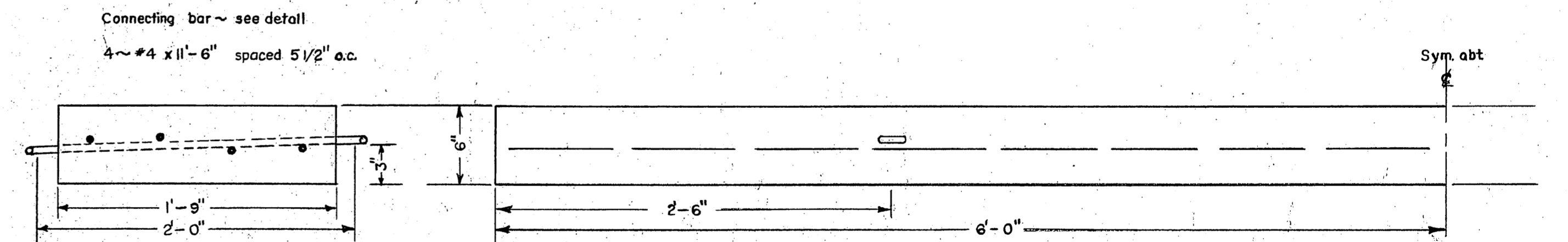
**TYPICAL RAMP CROSS SECTIONS**  
Scale 1" = 3'-0"



**PROFILE**  
Horizontal scale 1" = 20'  
Vertical " 1" = 10'

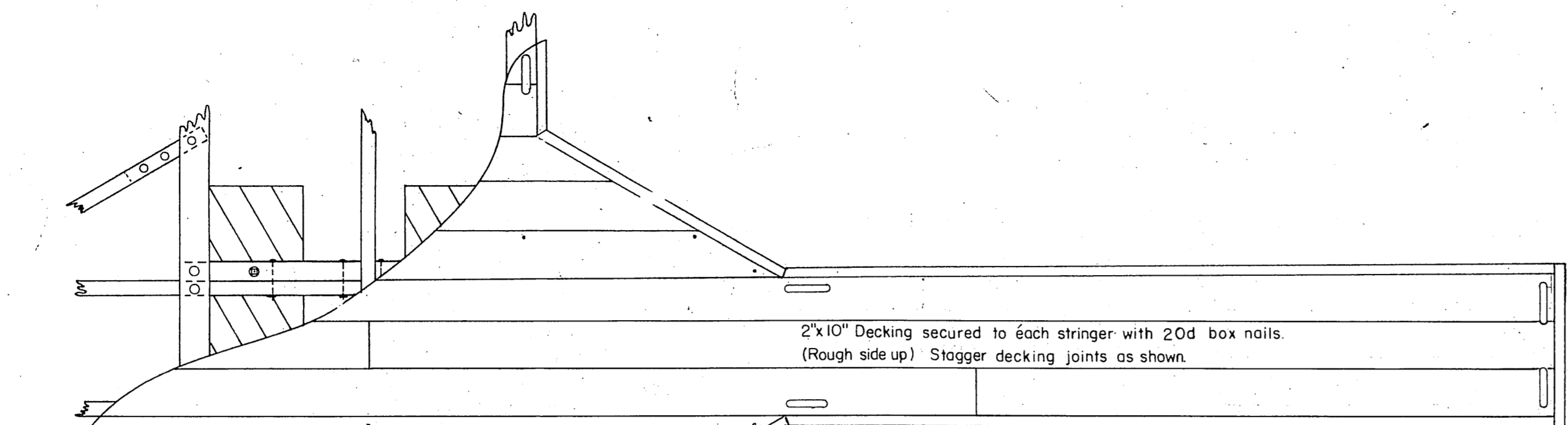


*Not used - poured solid slab*  
**STRINGER & PRECAST SLAB PLACEMENT**  
Scale 1" = 1'-0"



**PRECAST CONCRETE SLAB**  
Scale 1/2" = 1'-0"

STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS	
CONSTRUCTION DETAILS	
BOAT LAUNCHING RAMP	
SCALE as shown	APPROVED DON STATTER DIRECTOR
DATE 4/14/67	CHECKED BY [Signature]
PROJ. NO. 3-68/66	DRAWN BY [Signature]
SURVEYED BY DW/MH	CHECKED BY [Signature]



2x10" Decking secured to each stringer with 20d box nails. (Rough side up) Stagger decking joints as shown.

Secure two deck planks w/ 7-3/4" x 1/2" galv. wood screws each to permit access to stabilizer adjusting rod nuts.

Deck planks to be full width between float bracing.

NOTES:  
17' stall floats to be spaced 13' and 16' between stalls. 23' stall floats spaced to fit existing piling.  
All stringer bolt holes facing decking shall be countersunk 1/4" & of such diameter as to accommodate the appropriate economy bolt head.

2x8" Bumper strip to be continuous.

8" for 17' float  
12" for 23' float

Grey iron cleats bolted through stringers. (6 per each stall.)

1x6"x16" Ironbark rubstrip secured w/6-20d nails countersunk 3/8".

5/8" Bolts

3/4" U-Bolts

1x6"x6-0" Splice block secured w/6-1/2" bolts at dapp joint (Exterior stringers only)

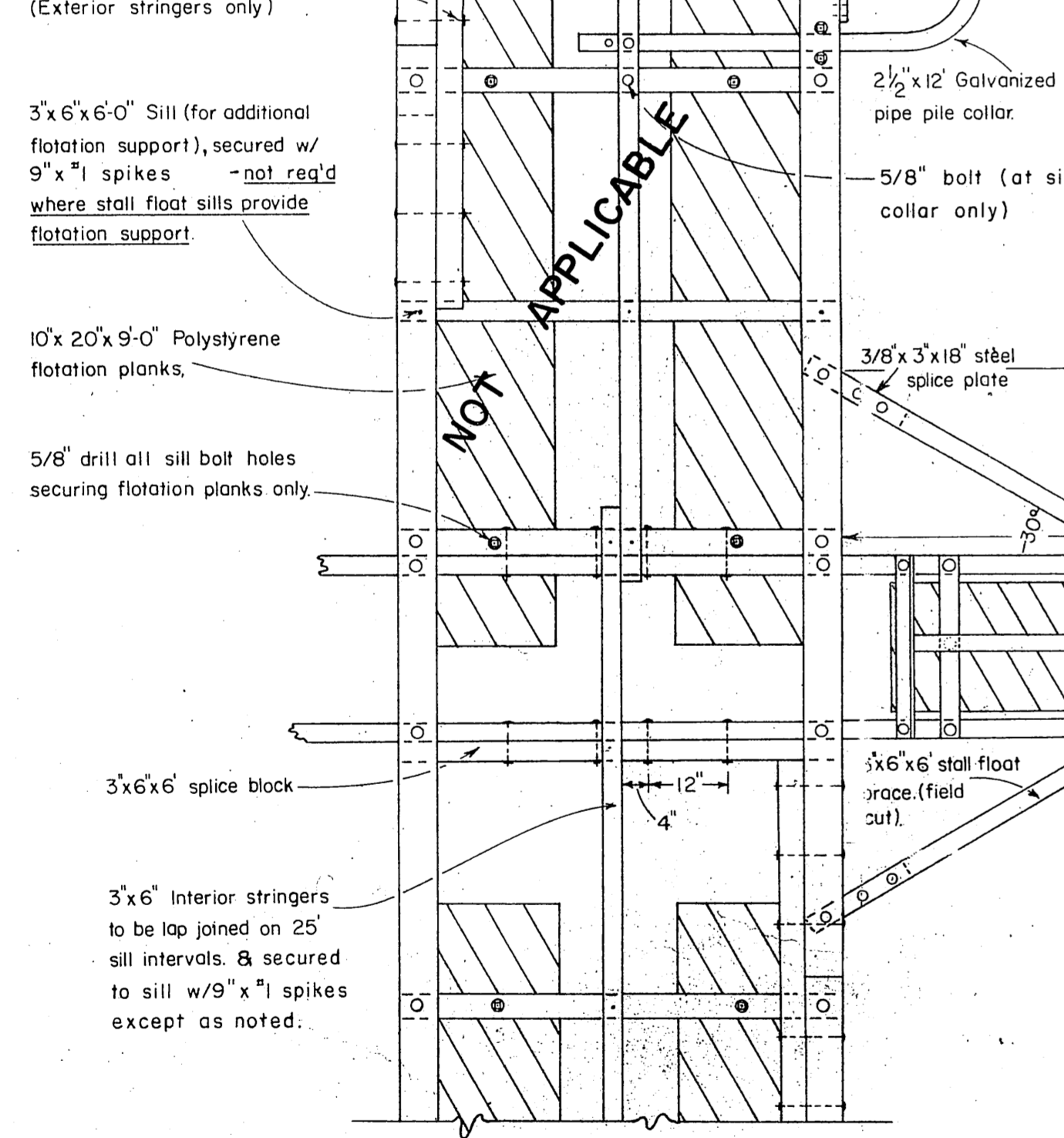
5/8"x6-0" Sill (for additional flotation support), secured w/9"x1" spikes - not req'd where stall float sills provide flotation support.

10"x20"x9-0" Polystyrene flotation planks.

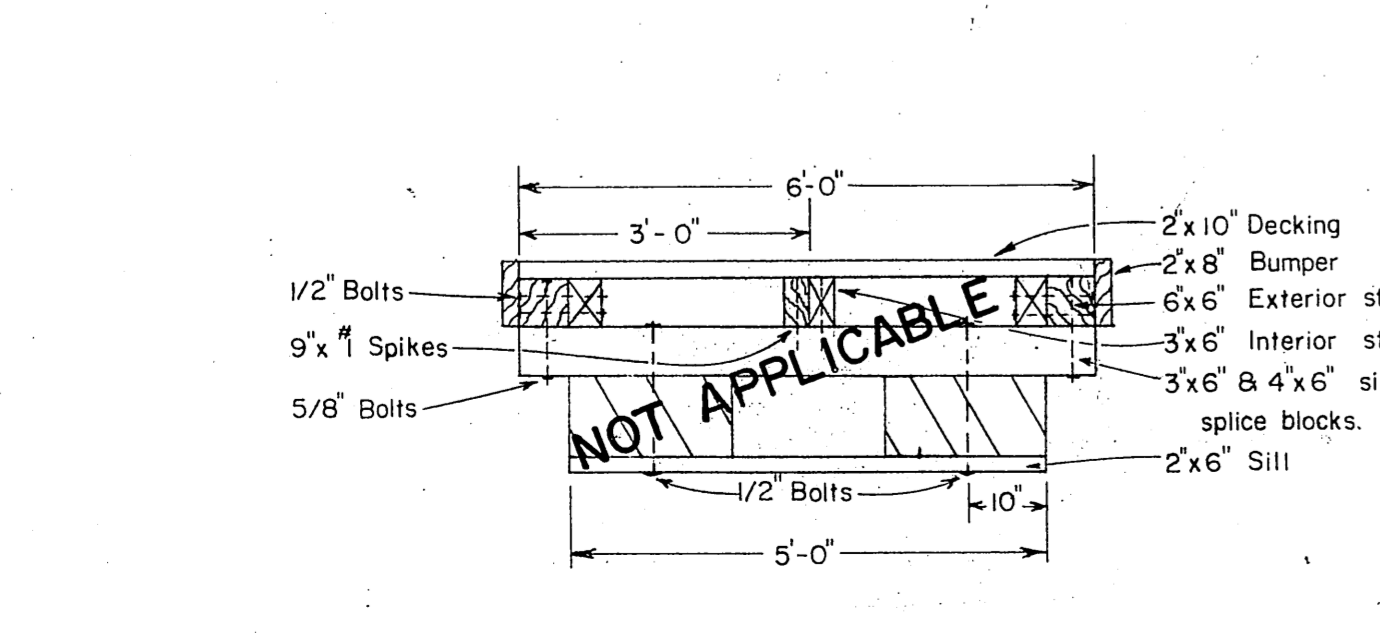
5/8" drill all sill bolt holes securing flotation planks only.

3x6"x6" splice block

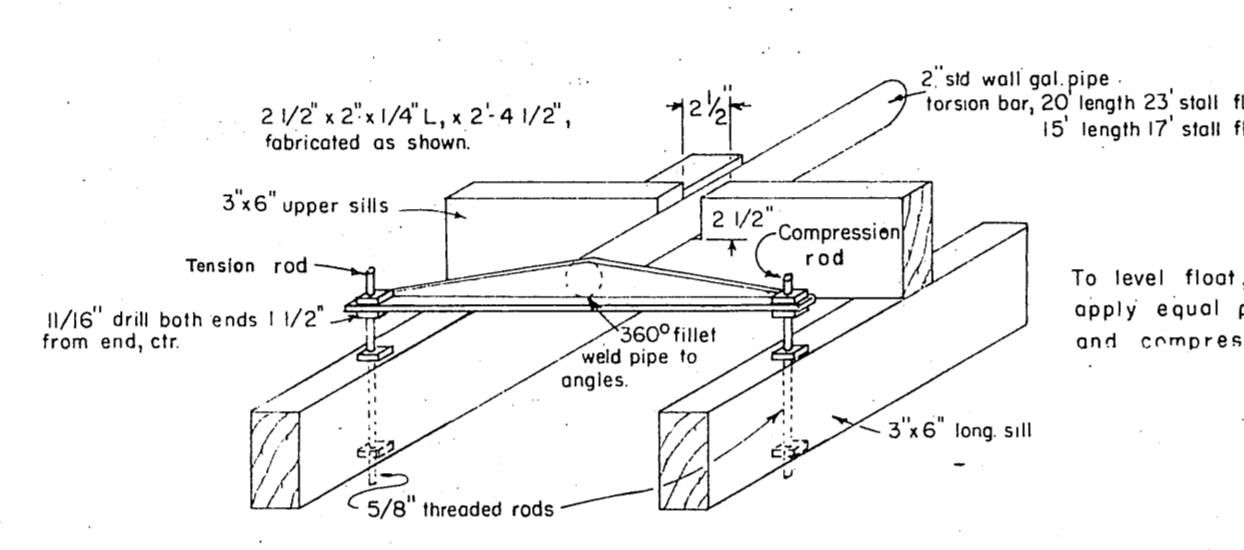
3x6" Interior stringers to be lap joined on 25" sill intervals. & secured to sill w/9"x1" spikes except as noted.



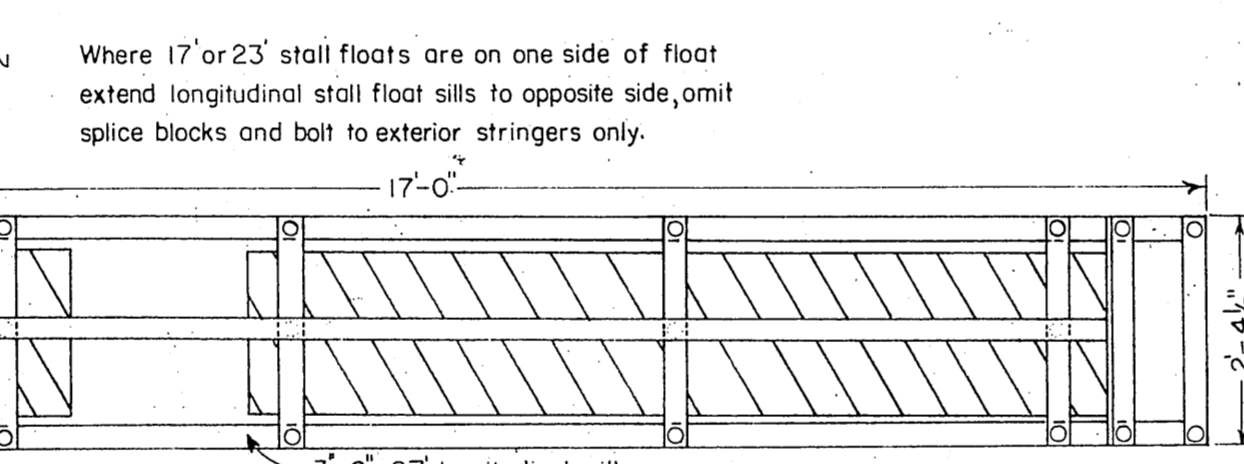
PLAN VIEW  
17' STALL FLOAT ASSEMBLED



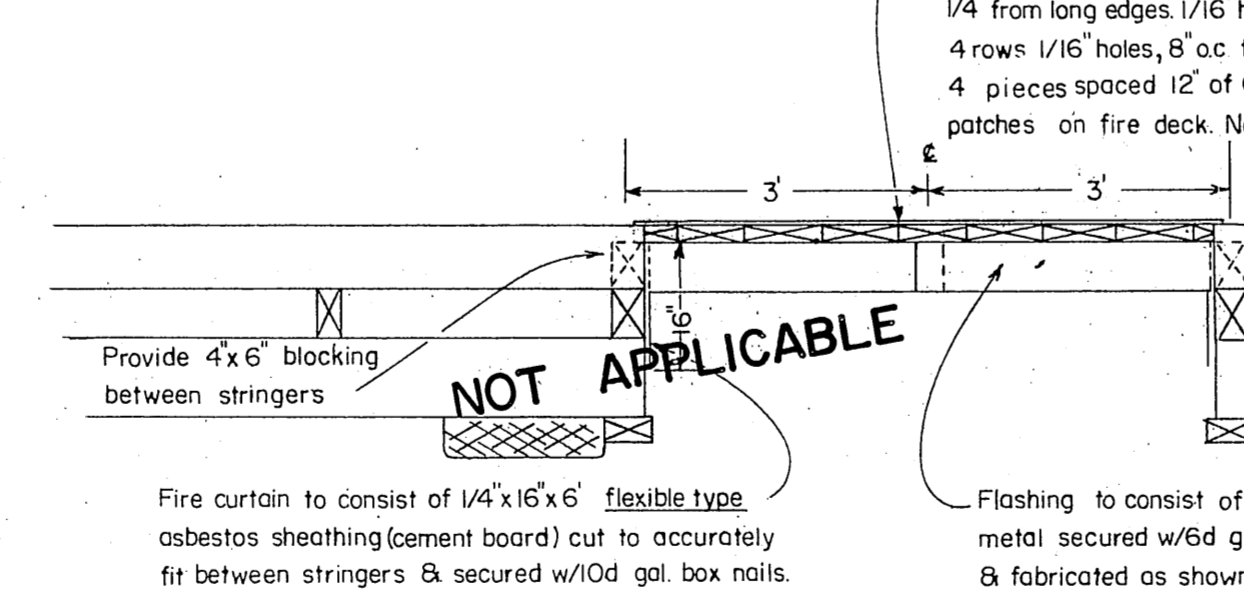
6' FLOAT SECTION



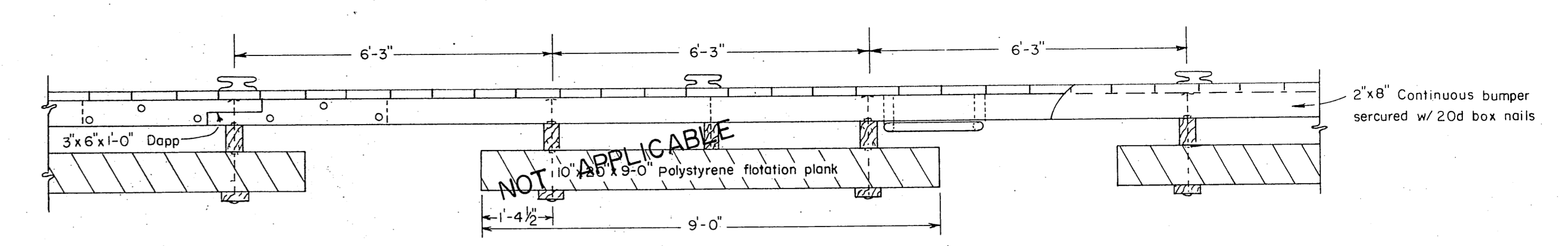
STALL FLOAT STABILIZER DETAILS  
Scale 1" to 1'-0"



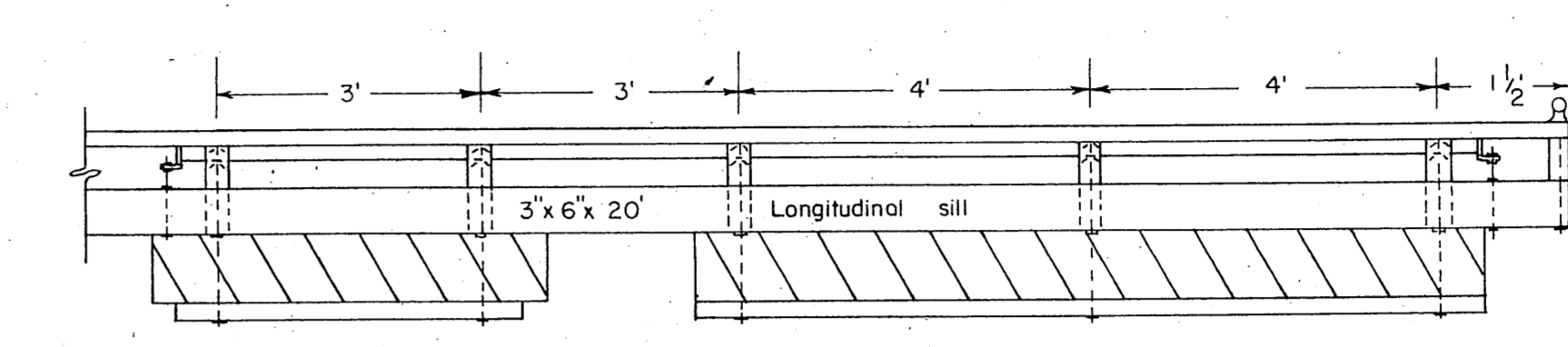
Where 17' or 23' stall floats are on one side of float extend longitudinal stall float sills to opposite side, omit splice blocks and bolt to exterior stringers only.



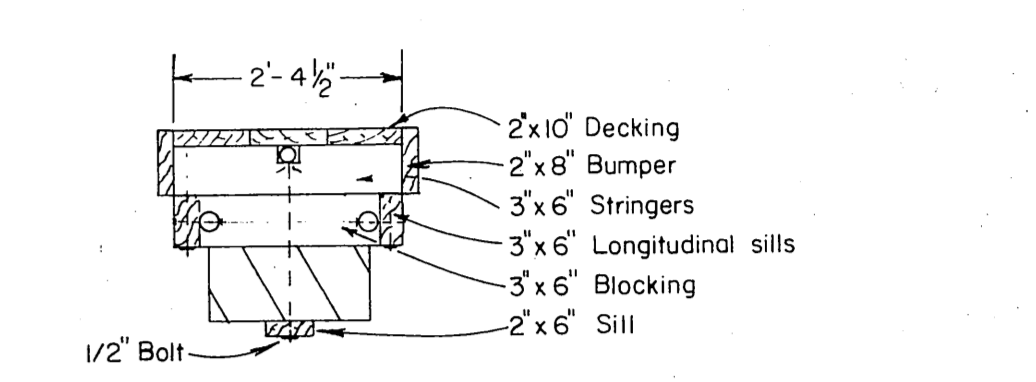
FIRE STOP DETAILS  
Scale 1/2" to 1'-0"



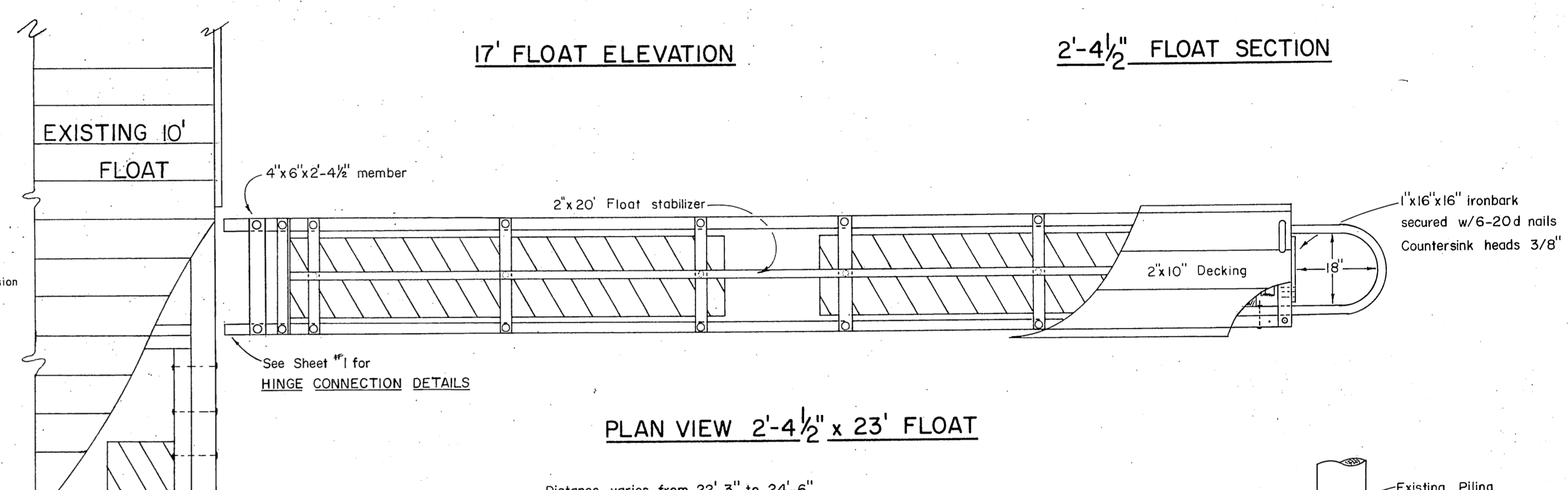
6' FLOAT ELEVATION



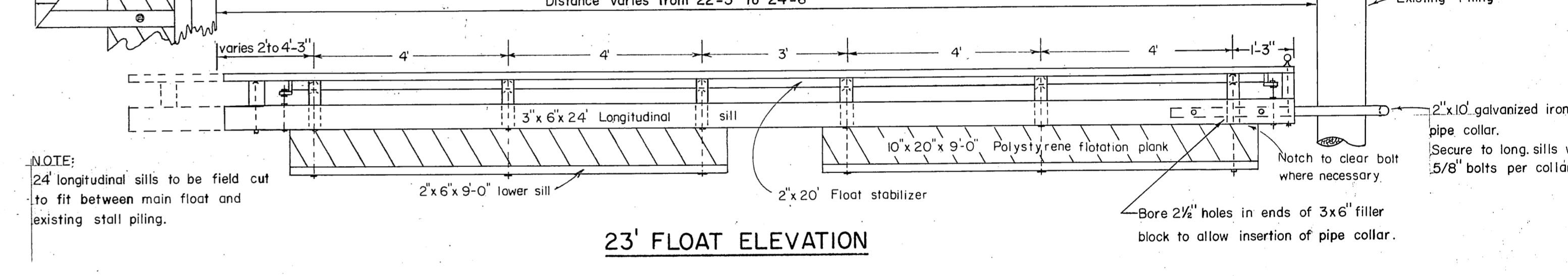
17' FLOAT ELEVATION



2'-4 1/2" FLOAT SECTION



PLAN VIEW 2'-4 1/2" x 23' FLOAT



23' FLOAT ELEVATION

MATERIALS		
ITEM	DRESSING	TREATMENT
PIILING		12 lb. ret.
2"x6" LOWER SILLS	ROUGH	" "
3"x6", 4"x6" SPLICE BLKS.	S-2-E	" "
3"x6" LONGITUDINAL		" "
STALL FLOAT SILLS	S-2-E	" "
3"x6" BLOCKING	S-2-E	" "
6"x6" EXT. STRINGERS	S-4-S	8 lb. ret.
3"x6" INT. STRINGERS	S-2-E	" "
2"x10" DECKING	S-1-S-2-E	" "
2"x8" BUMPERS	S-4-S	" "

All timber material to be CONSTRUCTION GRADE DOUGLAS FIR  
All 12 lb. Creo. treatment to be FULL CELL  
All 8 lb. Creo. treatment to be EMPTY CELL

6' FLOAT BOLT HOLES  
PRE-DRILL  
SILLS - holes for flotation plank bolts  
STRINGERS - holes for stringers to sill bolts  
BLOCKING - holes for stringers to sill bolts  
FIELD-DRILL  
SILLS - holes for stringer to sill bolts  
STRINGERS - 1 pile collar holes  
2 holes for exterior stringers to longitudinal stall float sill bolts  
SPLICE BLOCKS - all holes

STALL FLOAT BOLT HOLES  
PRE-DRILL  
STRINGERS - all holes  
BLOCKING - all holes  
LONGITUDINAL SILLS - 1 stringer to sill holes  
2 splice block holes  
FIELD DRILL  
LONGITUDINAL SILLS - holes for 6' float exterior stringer bolts & float stabilizer  
SPLICE BLOCK & BRACES - all holes  
Field drill all 9" spike holes

NOTES  
All hardware to be hot dip Galvanized. A malleable washer shall be placed between all nut and wood surfaces. All bolts to be of the economy head type. Bolt holes to be drilled true size, except holes for flotation planks 1/8" oversize. 9" spike holes to be drilled 1/16" undersize. All drill holes shall be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment. All bolts to be 5/8" except flotation plank bolts and exterior stringer splice block bolts. 5/8" bolt holes facing decking to be countersunk 1/4" deep by 2-1/8" diameter - 1/2" bolt holes 1/4" x 1-3/4" prior to treatment. Connect 6' float to main float with hinge connection as shown on connection detail sheet. A barrier of 6 mil polyethylene shall be placed between the contact surfaces of all creo. timber and flotation material.

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

23' STALL FLOATS

SCALE 1/2" = 1'-0"  
DATE AUGUST 1966  
PROJ. NO. 3-68146

APPROVED DON D. STATTER  
DIRECTOR

DESIGNED BY D.S. DRAWN BY C.D. CHECKED BY D.S.