

8' x 175' FLOAT W/ INTEGRAL 16' x 50' GANGWAY FLOAT
1" = 20'-0"

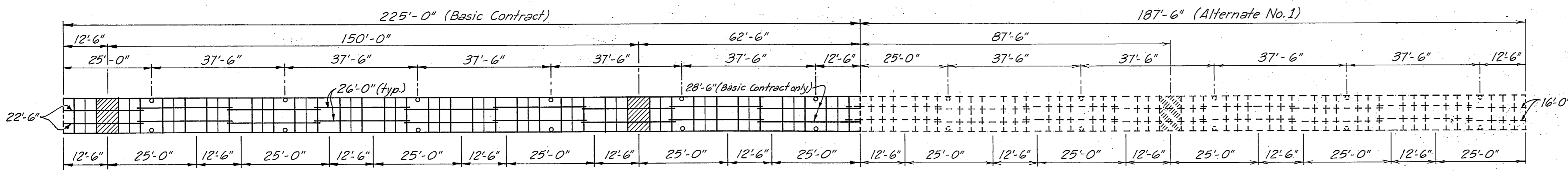
Note: See Section, Gangway Float

NOTE: For Dock reconstruction details, see Sheet No. 6.

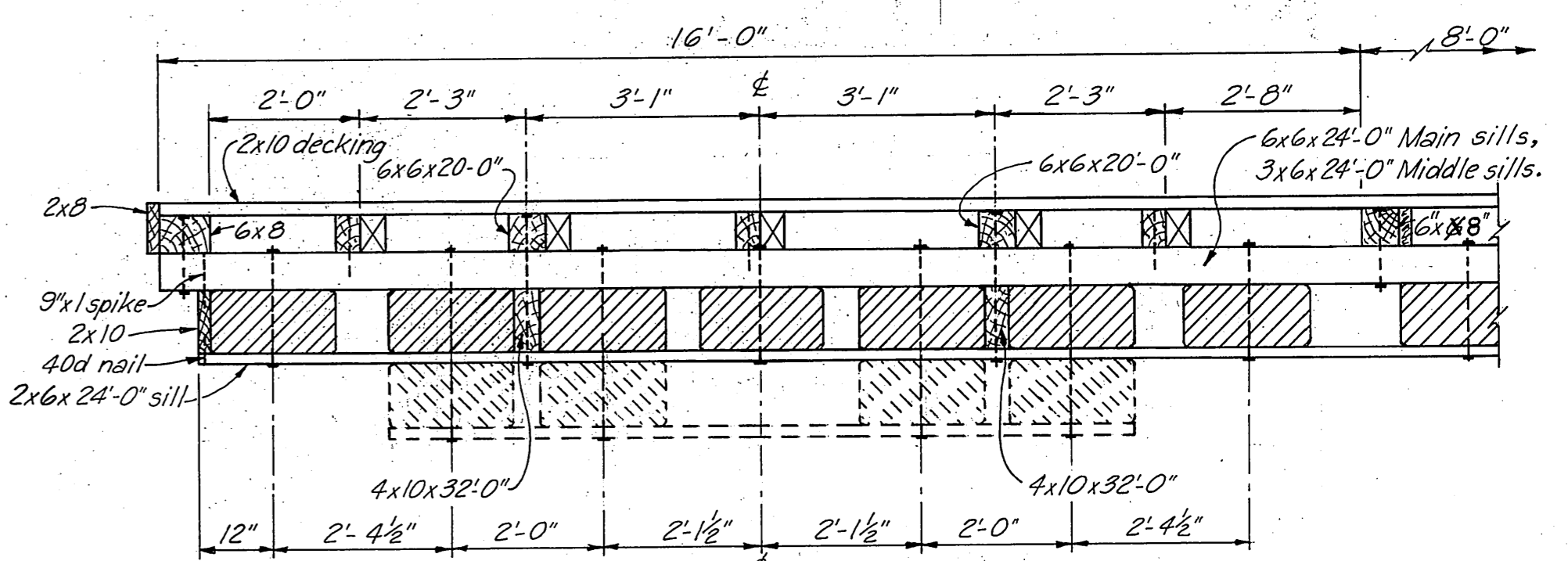
Note: See Section, Gangway Float

8' x 325' FLOAT W/ INTEGRAL 16' x 50' GANGWAY FLOAT
1" = 20'-0"

8' x 325' Float has 6"x8" Ext. stringers & extra flotation (3 billets per pontoon instead of 2 1/2)

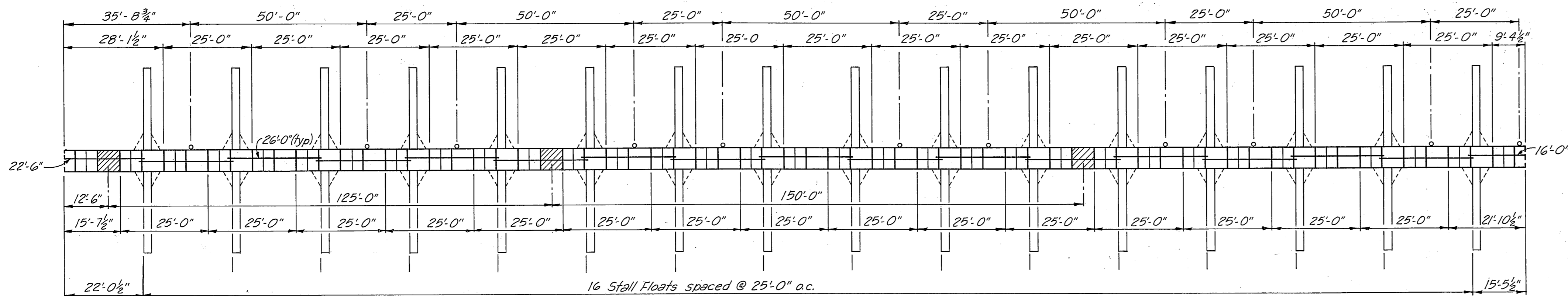


10' x 225' FLOAT
1" = 20'-0"

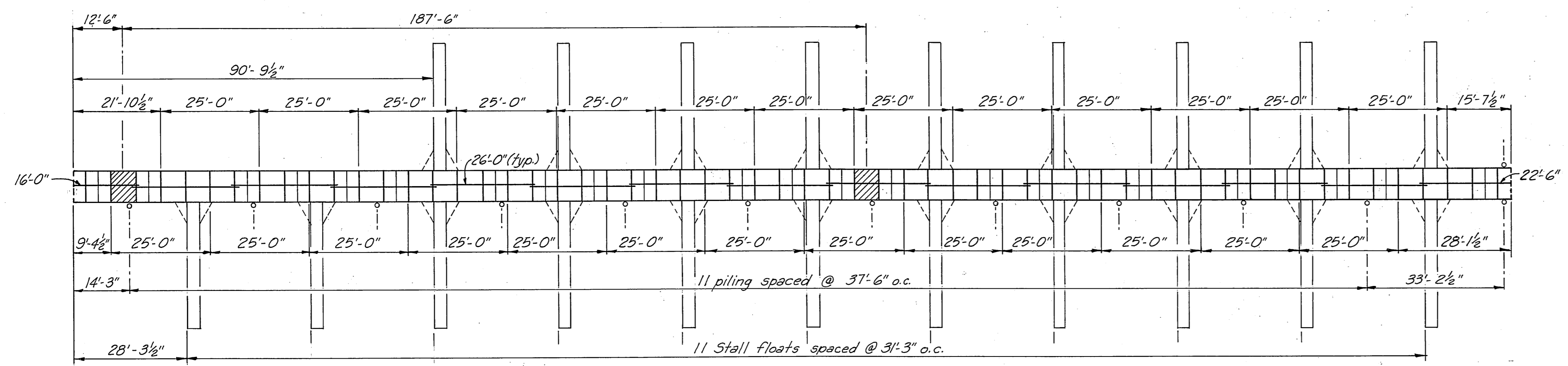


TYPICAL SECTION - GANGWAY FLOAT
1/2" = 1'-0"

Note: Gangway Float construction to conform to 10' float construction except as noted. Provide 4 additional flotation billets, as shown, in pontoon sections (A).

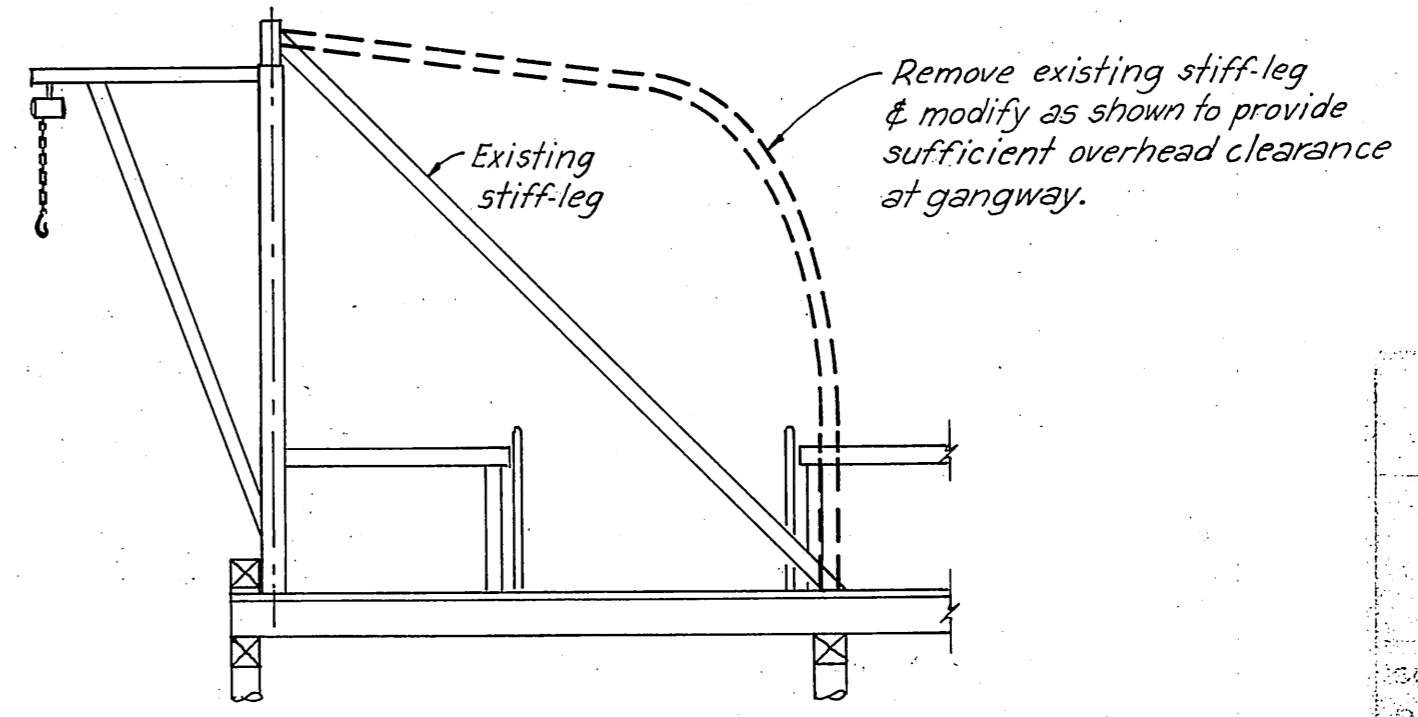


6' x 412'-6" MAIN FLOAT W/ 2-4 1/2" x 23' INTEGRAL STALL FLOATS
1" = 20'-0"



8' x 362'-6" MAIN FLOAT W/ 3'-2" x 32' INTEGRAL STALL FLOATS
1" = 20'-0"

- Notes:
- All exterior stringers to be spliced at the locations indicated and staggered as shown, except on 10' float where splice locations are typical for both sides. Distances are c.t.c. of dapp joints or to butt at float end.
 - Interior stringer dimensions given full length, 26' except as noted.
 - Tie-down rails (10' float only) to be spliced at same locations as exterior stringer splices. Provide tie-down rail at float end.
 - 37'-6" Ext stringers & tie-down rails may be used in lieu of 25'-0" & 12'-6" stringers on 10' x 225' float & 187'-6" Alt. No. 1.
 - Piling to be Class A creosote, driven butt down to 20' penetration or refusal.
 - Piling cutoff elevation = 32.0'.



DETAIL - BOOM & HOIST MODIFICATION
No Scale

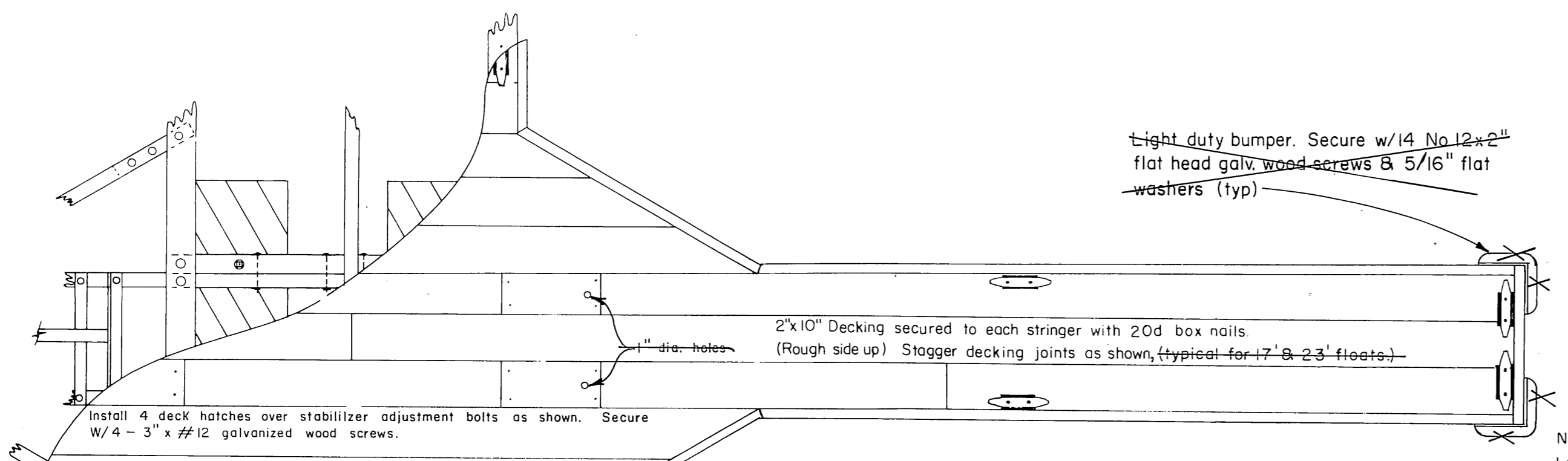
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

**STRINGER LAYOUT DIAGRAMS
MISC. CONSTRUCTION DETAILS**

SCALE: As Noted
DATE: 6-24-68
PROJ. NO. 68-69145

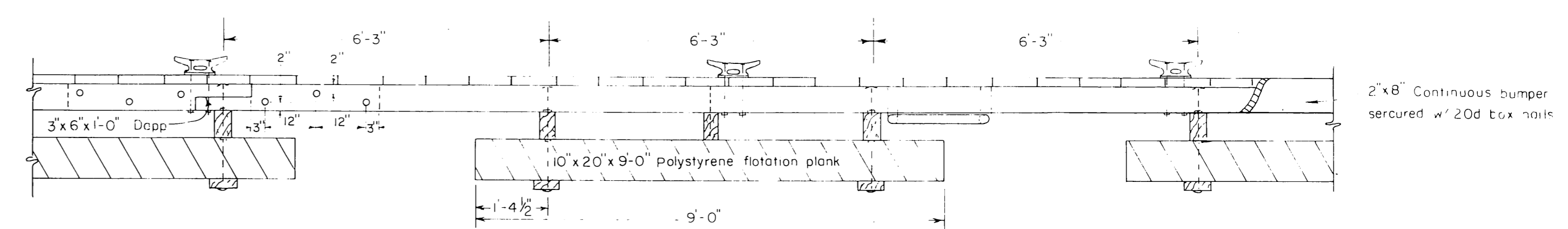
APPROVED: Don Statter
DIRECTOR

DRAWN BY: JET

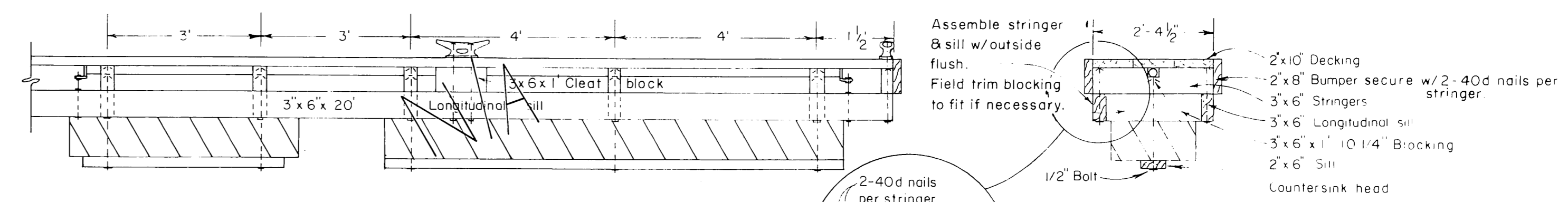


NOTES:
 17' stall floats to be spaced 16'-4 1/2" between stalls. 23' stall floats spaced 22'-7 1/2" between stalls (to conform to 6'-3" float sill spacing)
 All stringer bolt holes facing decking shall be countersunk 1/4" & of such diameter as to accommodate the appropriate economy bolt head.
 12" Dock Cleats (galvanized malleable iron) shall be located as shown, 6 per each stall.
 All details shown for 17' stall floats apply to 23' stall floats.

NOTE: Use 3' x 6' x 27' Longitudinal sills when securing 17' stall floats to 10' wide float.



6' FLOAT ELEVATION



17' FLOAT ELEVATION

2'-4 1/2" FLOAT SECTION

2'x8" Bumper strip to be continuous

Provide additional drill holes in pile collar to accommodate staggered interior stringers.

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

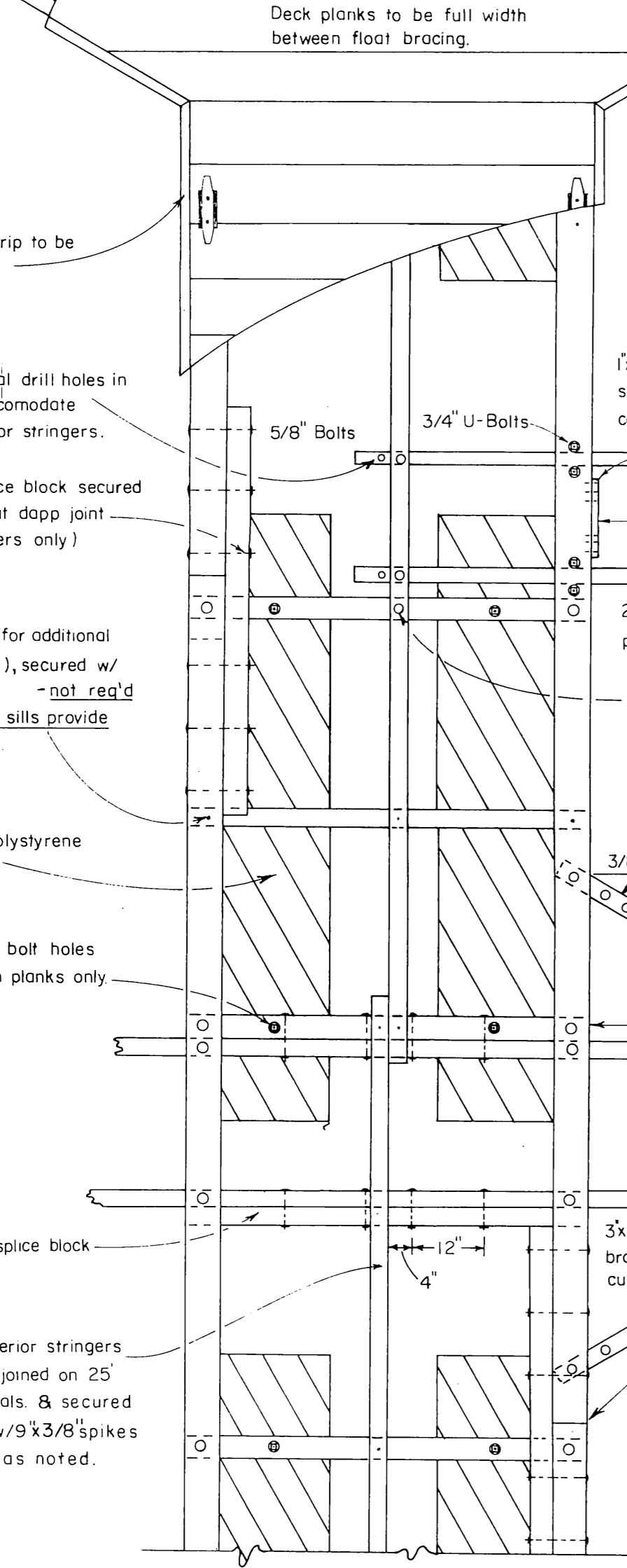
3'x6'x6'-0" Sill (for additional flotation support), secured w/9'x3/8' spikes - not req'd where stall float sills provide flotation support.

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

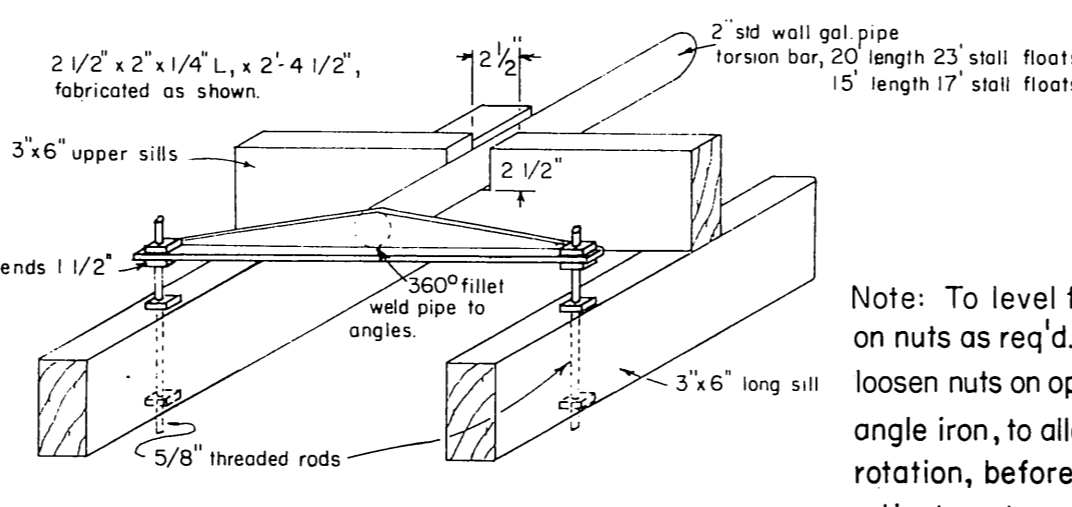
5/8" drill all sill bolt holes securing flotation planks only.

3'x6'x6" splice block

3'x6" Interior stringers to be lap joined on 25' sill intervals & secured to sill w/9'x3/8' spikes except as noted.



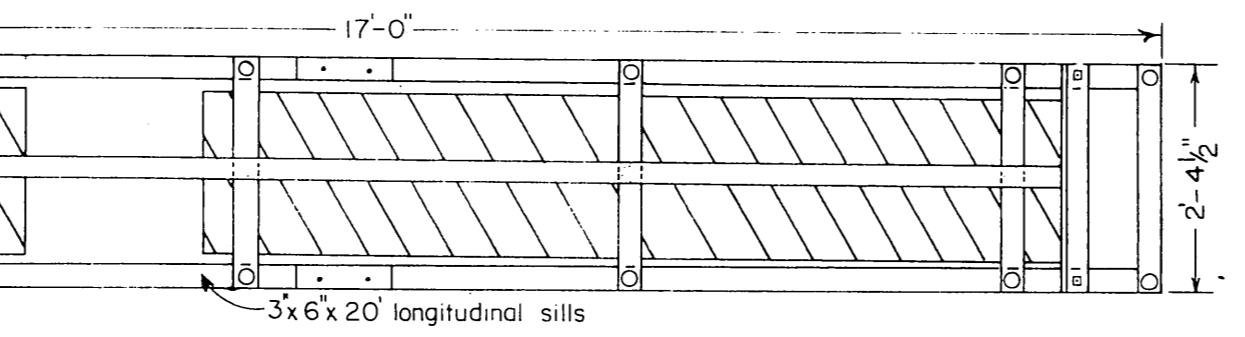
PLAN VIEW
17' STALL FLOAT ASSEMBLED



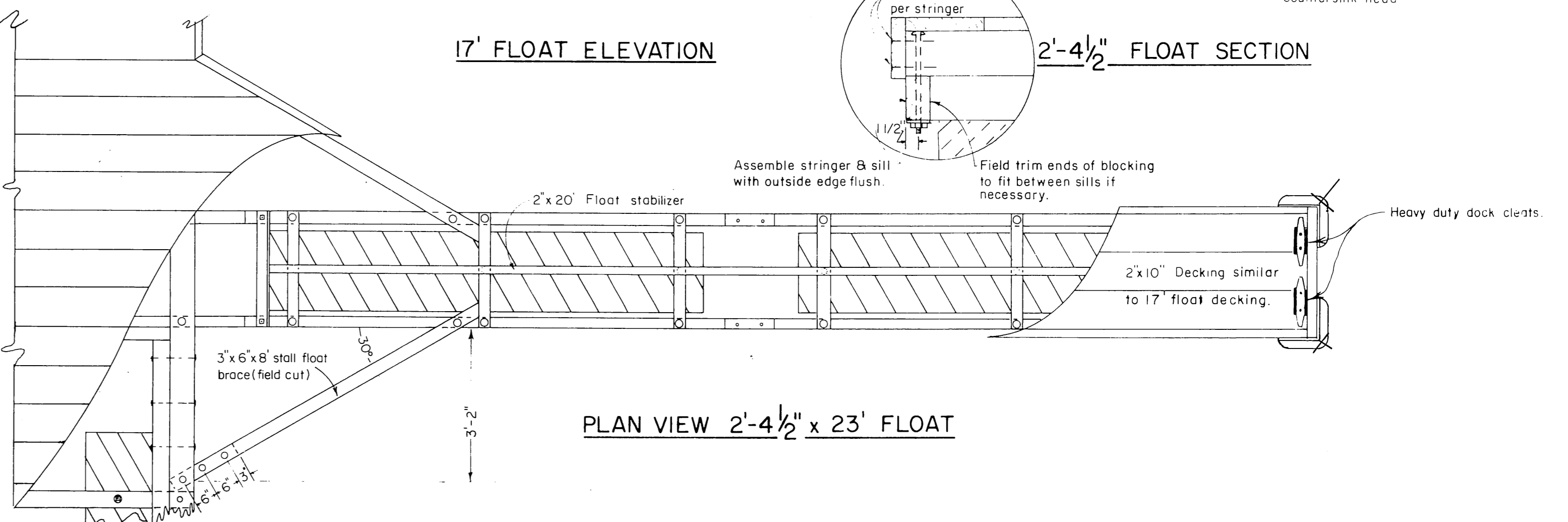
STALL FLOAT STABILIZER DETAILS
Scale 1" to 1'-0"

Note: To level float, take up on nuts as req'd. Be sure to loosen nuts on opposite end of angle iron, to allow unrestricted rotation, before attempting adjustment.

Stall float longitudinal sills shall be connected to the 6'-0" float sill & splice block with 2-5/8" bolts each. 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.

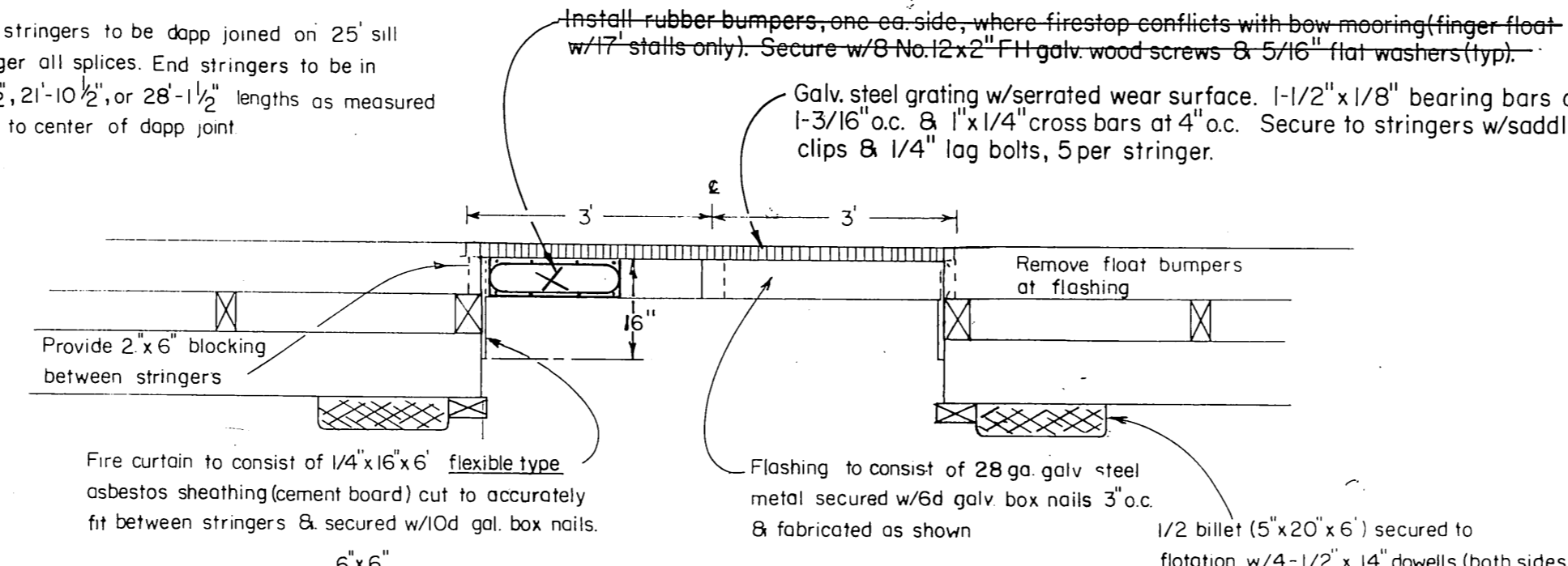


PLAN VIEW 2'-4 1/2" x 23' FLOAT

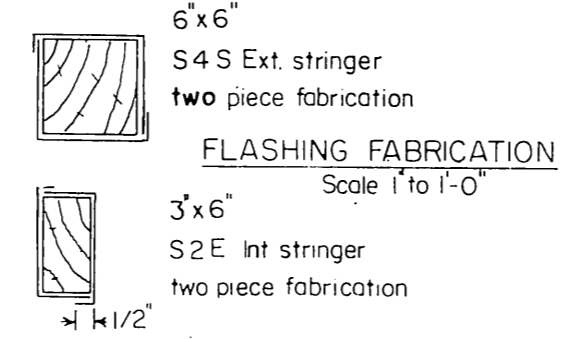


23' FLOAT ELEVATION

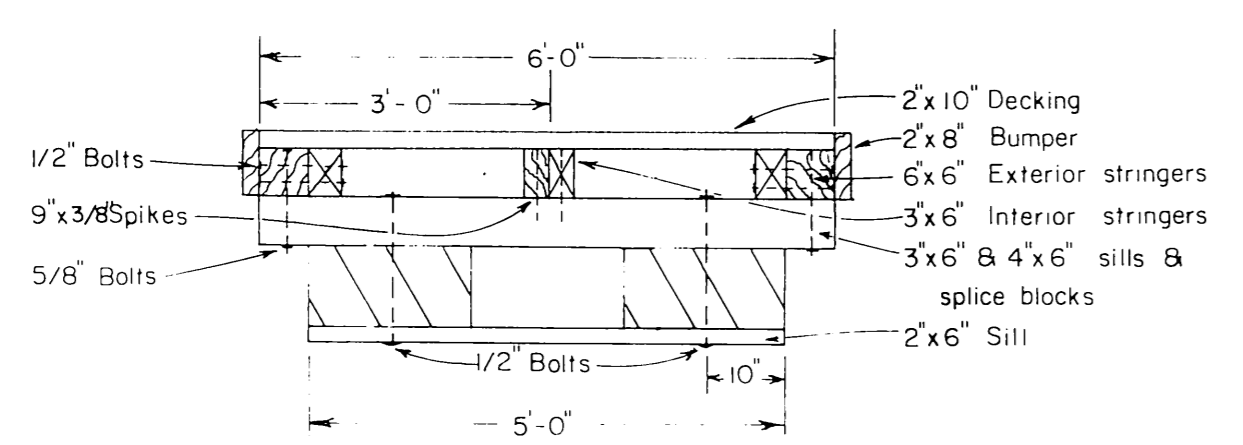
NOTE: Use 3'x6'x33'-0" longitudinal sills when securing 23' stall floats to 10' float



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



FLASHING FABRICATION
Scale 1" to 1'-0"



6' FLOAT SECTION

MATERIALS		
ITEM	DRESSING	TREATMENT
3'x6" & 4'x6" UPPER SILLS	ROUGH	12 lb ret.
2'x6" LOWER SILLS	ROUGH	" "
3'x6'x6" SPLICE BLKS	S-2-E	" "
3'x6" LONGITUDINAL	S-2-E	" "
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	" "
4'x6" SPLICE BLOCKS	S-2-E	" "

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 - 1 holes for stringers to sill bolts
 2 splice block holes

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 1/16" O.S 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

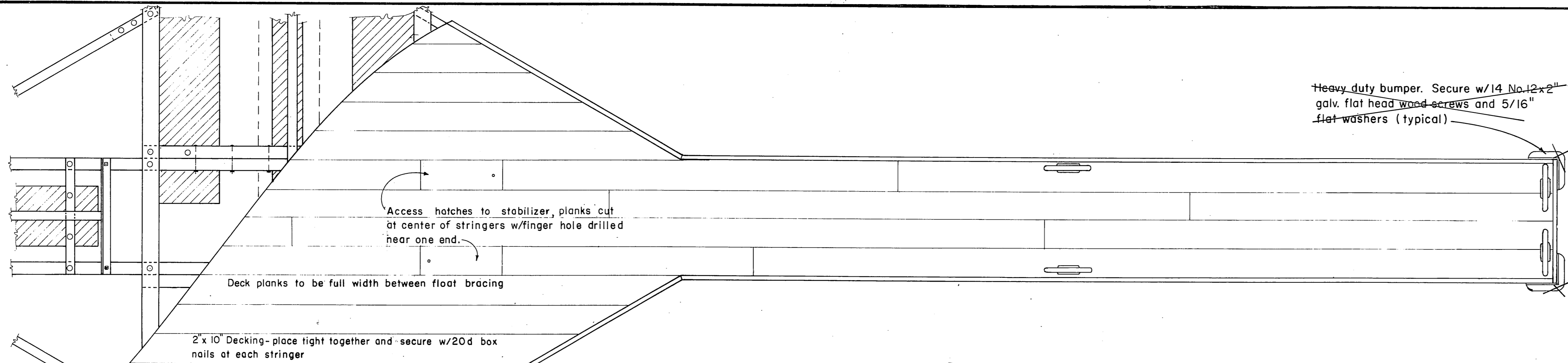
TYPICAL 6' FLOAT w/INTEGRAL STALLS

SCALE: 1/2" = 1'-0"
 DATE: AUGUST 1966
 PROJECT NO. _____

APPROVED DON D. STATTER
 DIRECTOR

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

SHEET 3 OF 9 SHEETS

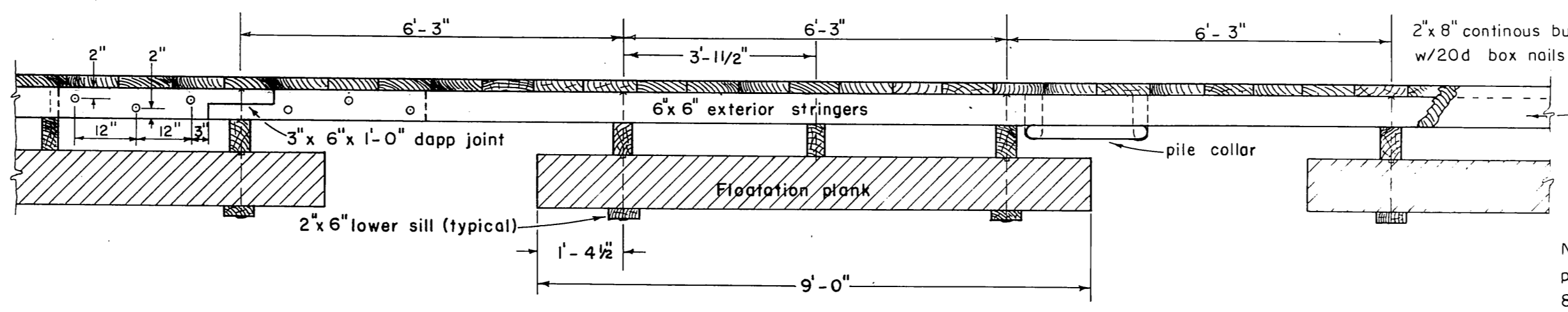


Heavy duty bumper. Secure w/14 No.12x2" galv. flat head wood screws and 5/16" flat washers (typical)

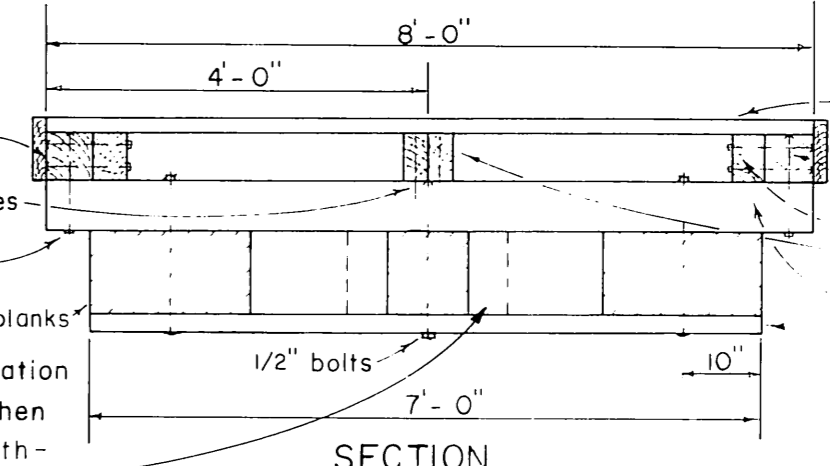
- 8' FLOAT BOLT HOLES**
- PRE-DRILL**
 SILLS - holes for floatation plank bolts
 STRINGERS - 1 hole for stringer to sill bolts
 2 splice block holes
- FIELD DRILL**
 SILLS - holes for stringer to sill bolts
 STRINGERS - 1 pile collar holes
 2 holes for exterior stringers to longitudinal stall float sill bolts
- SPLICE BLOCKS** - all holes

- STALL FLOAT BOLT HOLES**
- PRE-DRILL**
 STRINGERS - all holes
 LOCKING - all holes
 LONGITUDINAL SILLS - 1 stringer to sill holes
 2 splice block holes
- FIELD DRILL**
 LONGITUDINAL SILLS - holes for 8' float exterior stringer bolts and float stabilizer
- SPLICE BLOCK & BRACES** - all holes
 field drill all 9" spike holes

NOTE: Install 16" grey iron cleats at 12'-6" centers along 8' float (both sides) when it is installed without stall floats.

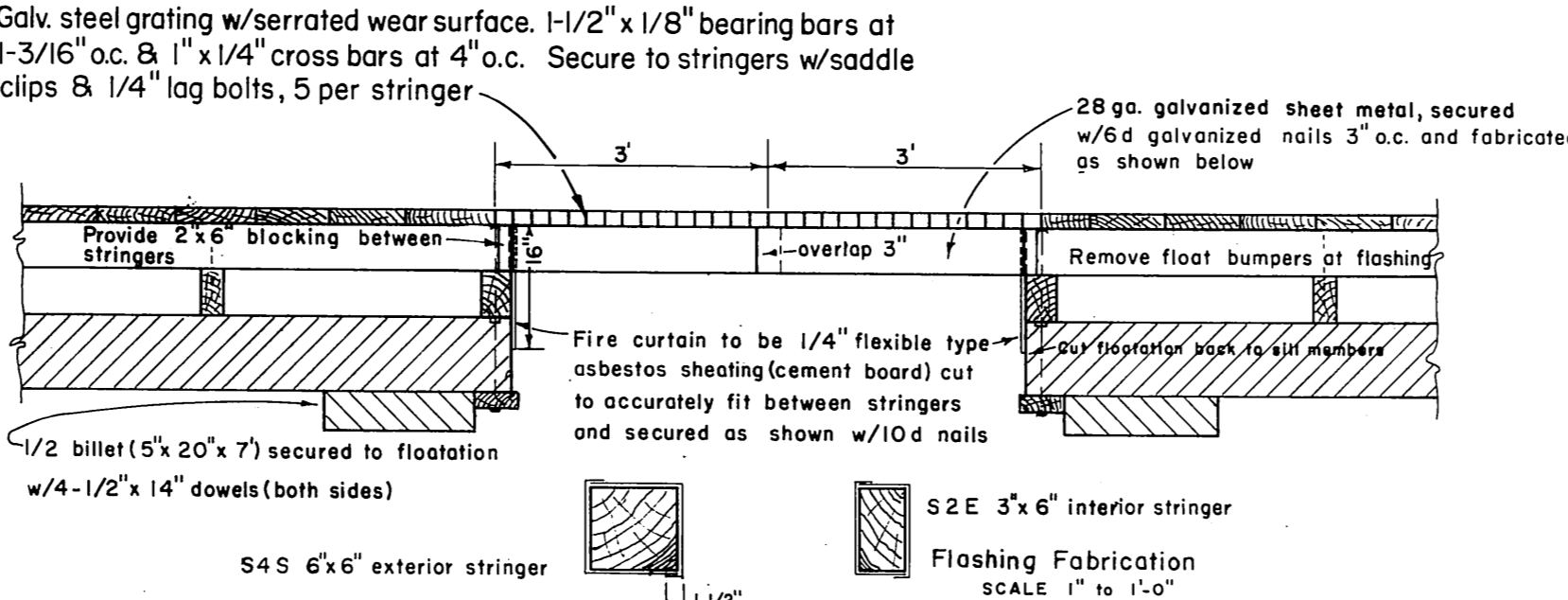


ELEVATION
TYPICAL 8' FLOAT
 1/2" = 1'-0"

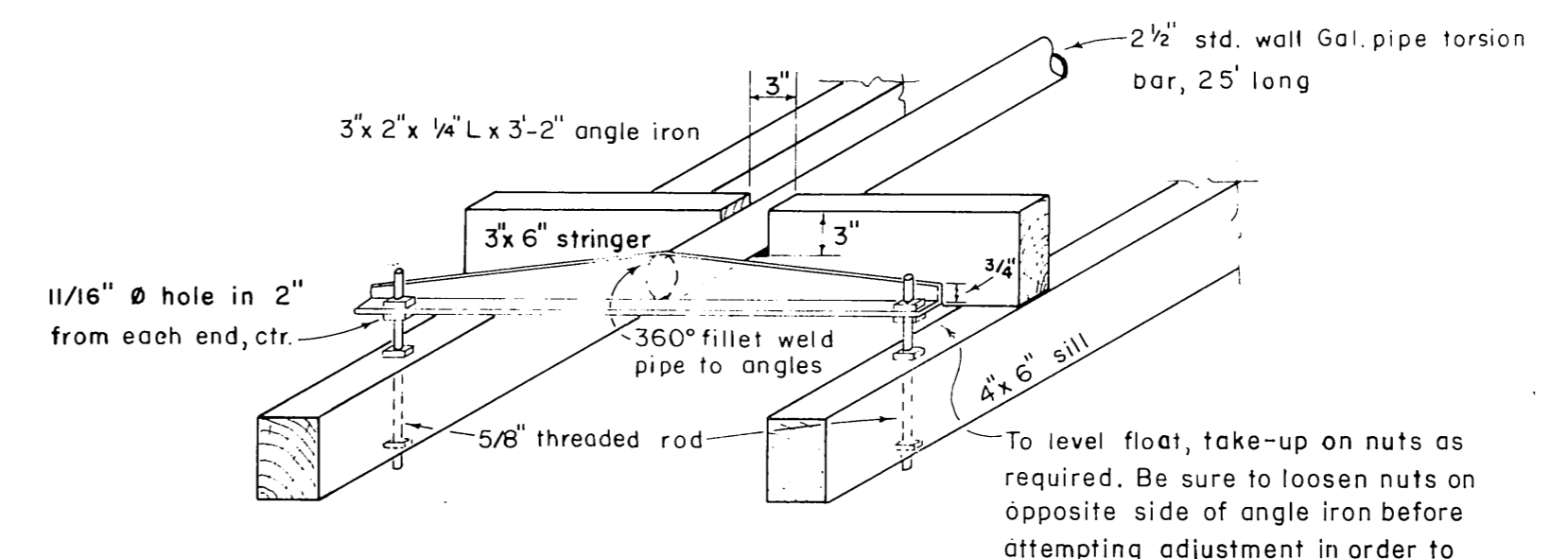


SECTION
TYPICAL 8' FLOAT
 1/2" = 1'-0"

NOTE: Full sized floatation planks shall be used when 8' float is installed without stall floats.



DETAILS
FIRE STOP
 1/2" = 1'-0"



DETAILS
STALL FLOAT STABILIZER
 1" = 1'-0"

MATERIALS		
ITEM	DRESSING	TREATMENT
PILING	CLASS A	
3x6 & 4x6 UPPER SILLS	S-1-E 1/8" off	
2x6 LOWER SILLS	ROUGH	
3x6x8 SPLICE BLKS	S-2-E	
4x6 LONGITUDINAL		
STALL FLOAT SILLS	S-2-E	
3x6 BLOCKING	S-2-E	
6x6 EXT. STRINGERS	S-4-S	8 lb. min.
3x6 INT. STRINGERS	S-2-E	
2x10 DECKING	S-1-S-2-E	
2x8 BUMPERS	S-4-E	
4x6 SPLICE BLOCKS	S-2-E	

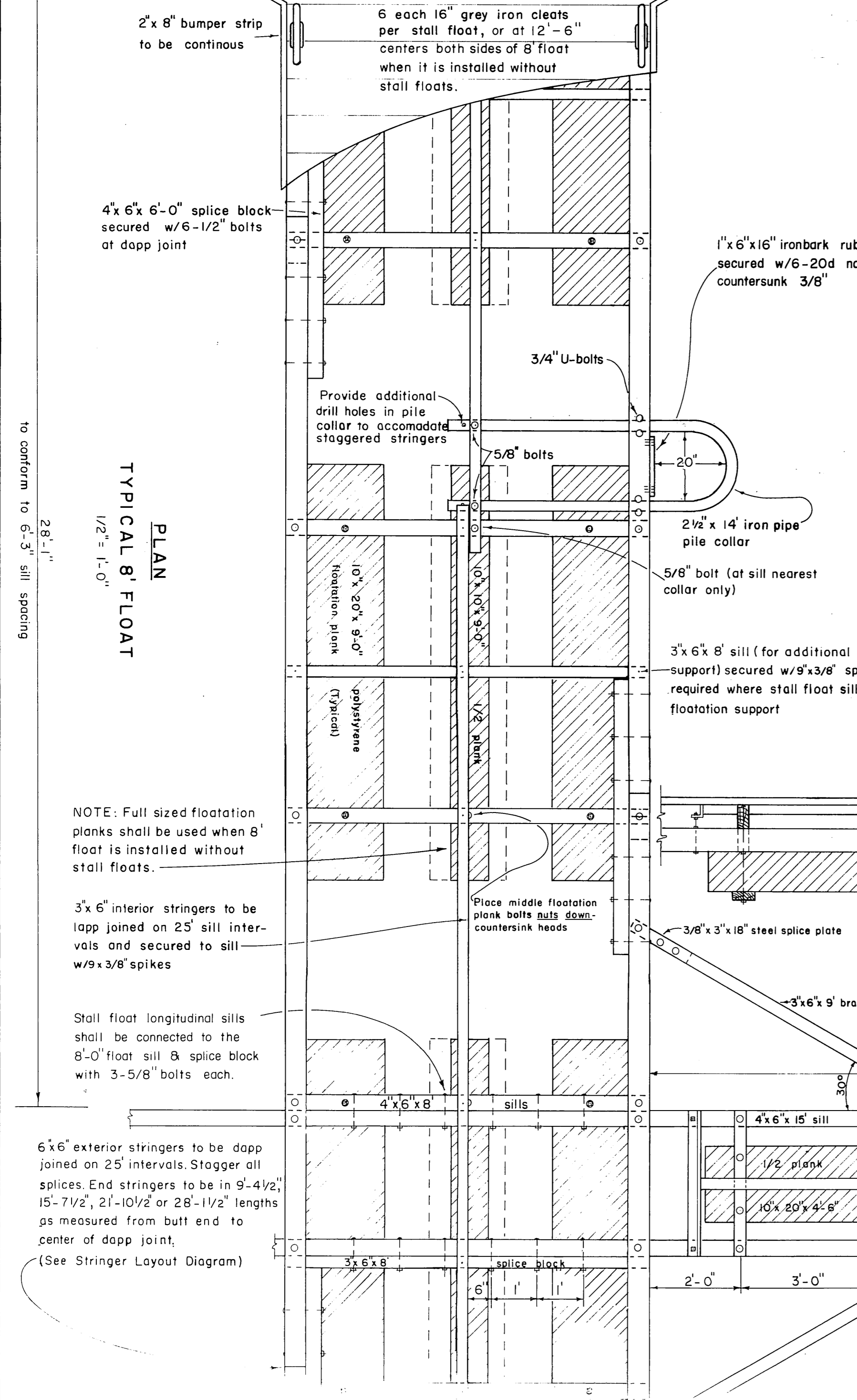
All 11/16 Creo. treatment to be FULLY...
 All 8lb. Creo. treatment to be EMPTY GRILL.
 All timber material to be CONSTRUCTION GRADE DOUGLAS FIR.

NOTES

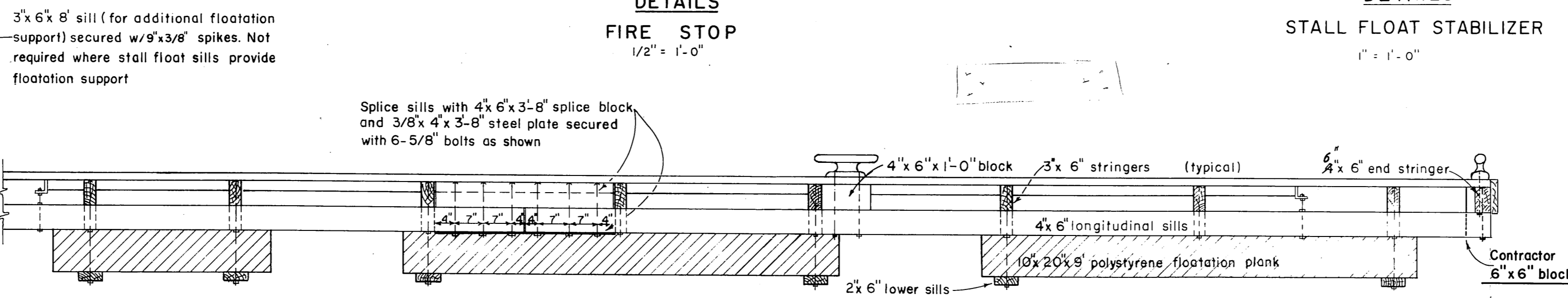
All hardware to be hot dip Galvanized. A malleable washer shall be placed between all nut and wood surfaces. All bolts to be of the economy head type. Bolt holes to be drilled 1/8" over size, except holes for floatation plank 1/8" over size. 9" spike holes to be drilled 1/16" under size. All drill holes 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 floatation plank bolts and exterior stringer splice block bolts. 5/8" bolt holes facing decking to be countersunk 1/4" deep by 3/8" diameter. All bolt holes 1/4" x 1-3/4" prior to treatment. Connect 8' float to stall float with hinge connection as shown on connection detail sheet. A barrier of 6 mill polyethylene shall be placed between the bottom surfaces of all creosote timber and floatation material.

- 2 / 6/9 Revise length stall floats & change access hatches. ELS
 1 / 2/69 Revise for use without stall floats. ELS

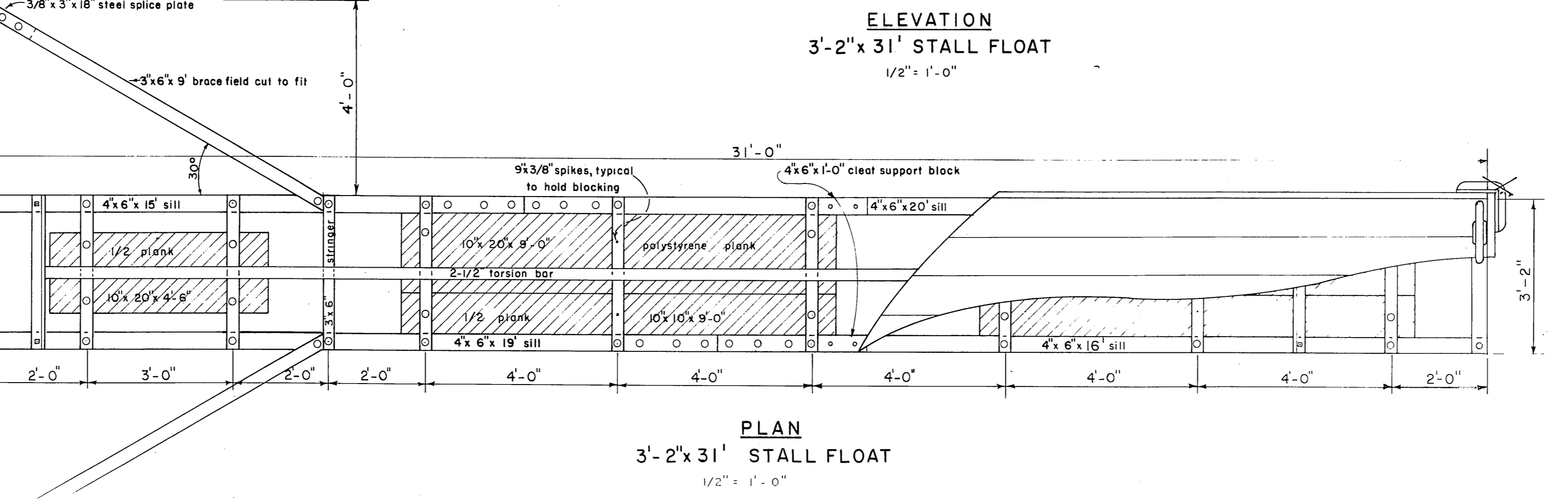
DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WATERWAYS
 TYPICAL 8' FLOAT w/ INTEGRAL STALLS
 SCALE 1/2" = 1'-0"
 DATE: FEB. 1968
 DRAWN BY: [Signature]



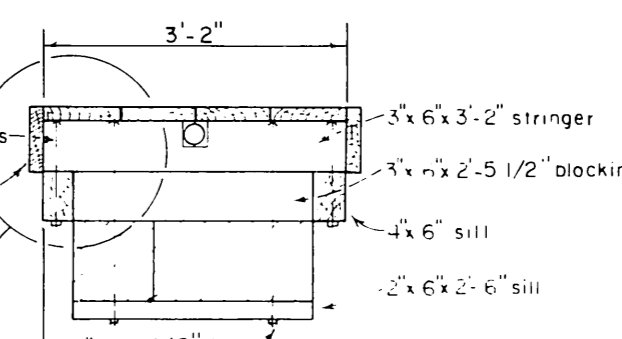
PLAN
TYPICAL 8' FLOAT
 1/2" = 1'-0"



ELEVATION
**3'-2\"/>
 1/2" = 1'-0"**



PLAN
**3'-2\"/>
 1/2" = 1'-0"**



SECTION
**3'-2\"/>
 1/2" = 1'-0"**

Assemble stringer & sill with outside edge flush. Field trim ends of blocking to fit between sills if necessary.

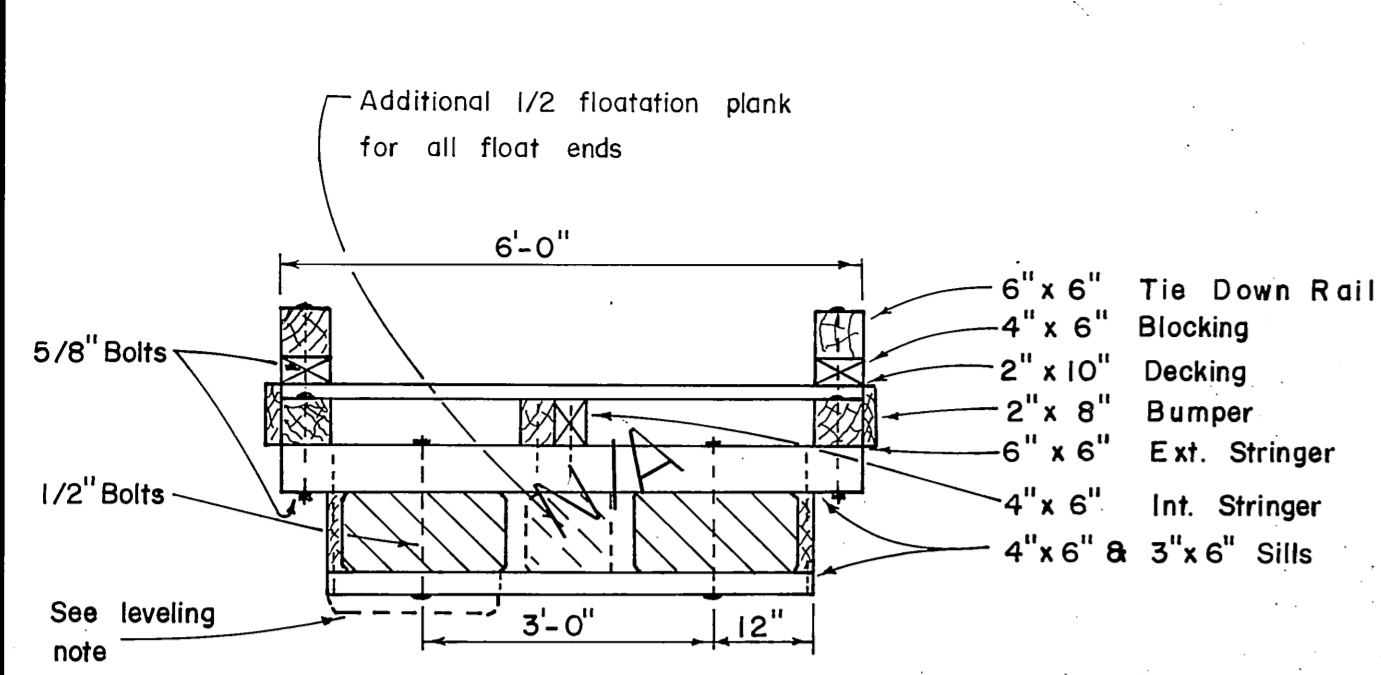
NOTE: Full sized floatation planks shall be used when 8' float is installed without stall floats.

3x6 interior stringers to be lapp joined on 25' sill intervals and secured to sill w/9x3/8 spikes

Stall float longitudinal sills shall be connected to the 8'-0" float sill & splice block with 3-5/8 bolts each.

6x6 exterior stringers to be dapp joined on 25' intervals. Stagger all splices. End stringers to be in 9'-4 1/2", 15'-7 1/2", 21'-10 1/2" or 28'-11 1/2" lengths as measured from butt end to center of dapp joint. (See Stringer Layout Diagram)

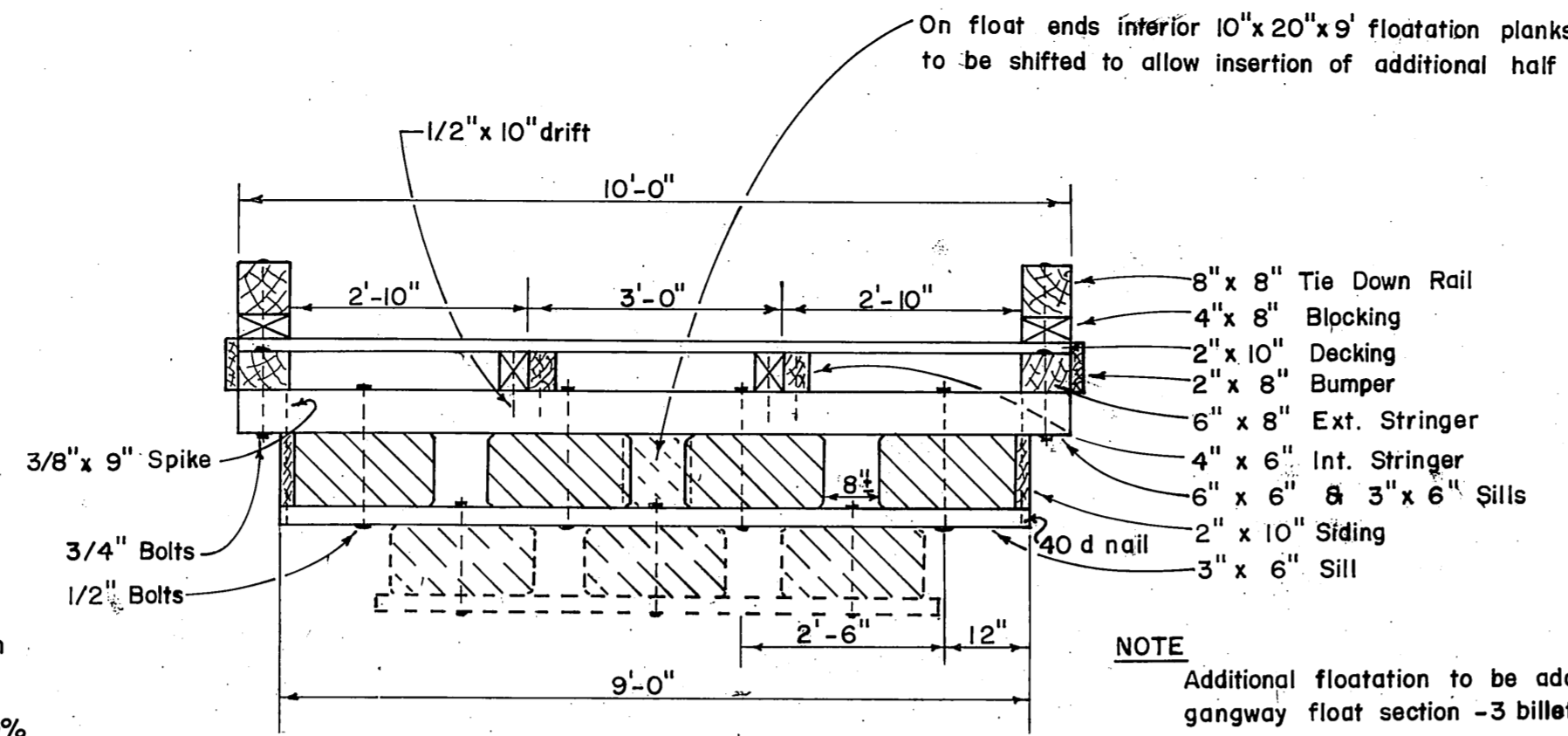
to conform to 6'-3" sill spacing



6' FLOAT SECTION
1/2" = 1'-0"

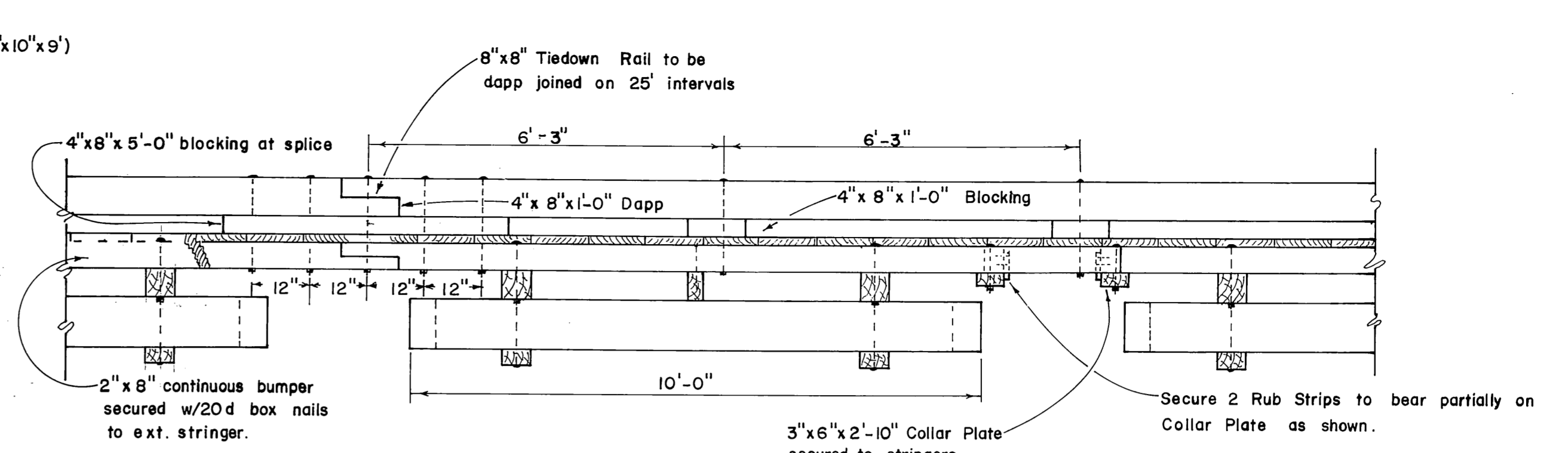
NOTE
6' Float construction shall conform to 10' float constr. except as noted.

Leveling note
5' x 20' x 4' to 5' leveling floatation shall be installed as directed by the Engr. (required on approx. 20% of the stall floats including 6' stall floats). Place floatation between lower sill members with the outer edge bearing on siding members (cut side up). Pin floatation together with 3/8" x 20" "all" pin (see detail, this sheet), 3 places, approx. equally spaced.



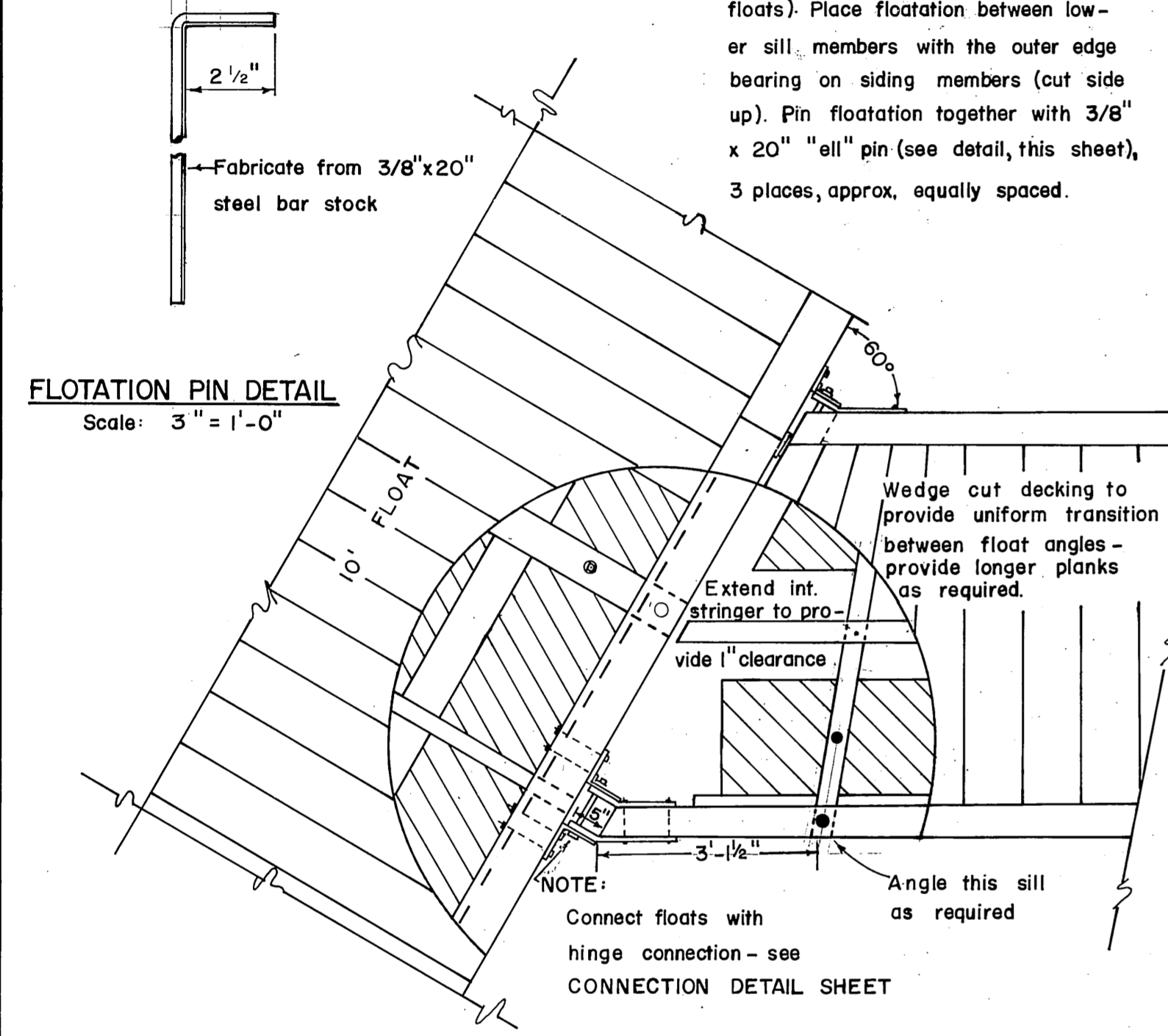
10' FLOAT SECTION
1/2" = 1'-0"

NOTE
Additional floatation to be added on gangway float section - 3 billets as shown timber gangway - 2 for steel gangway.

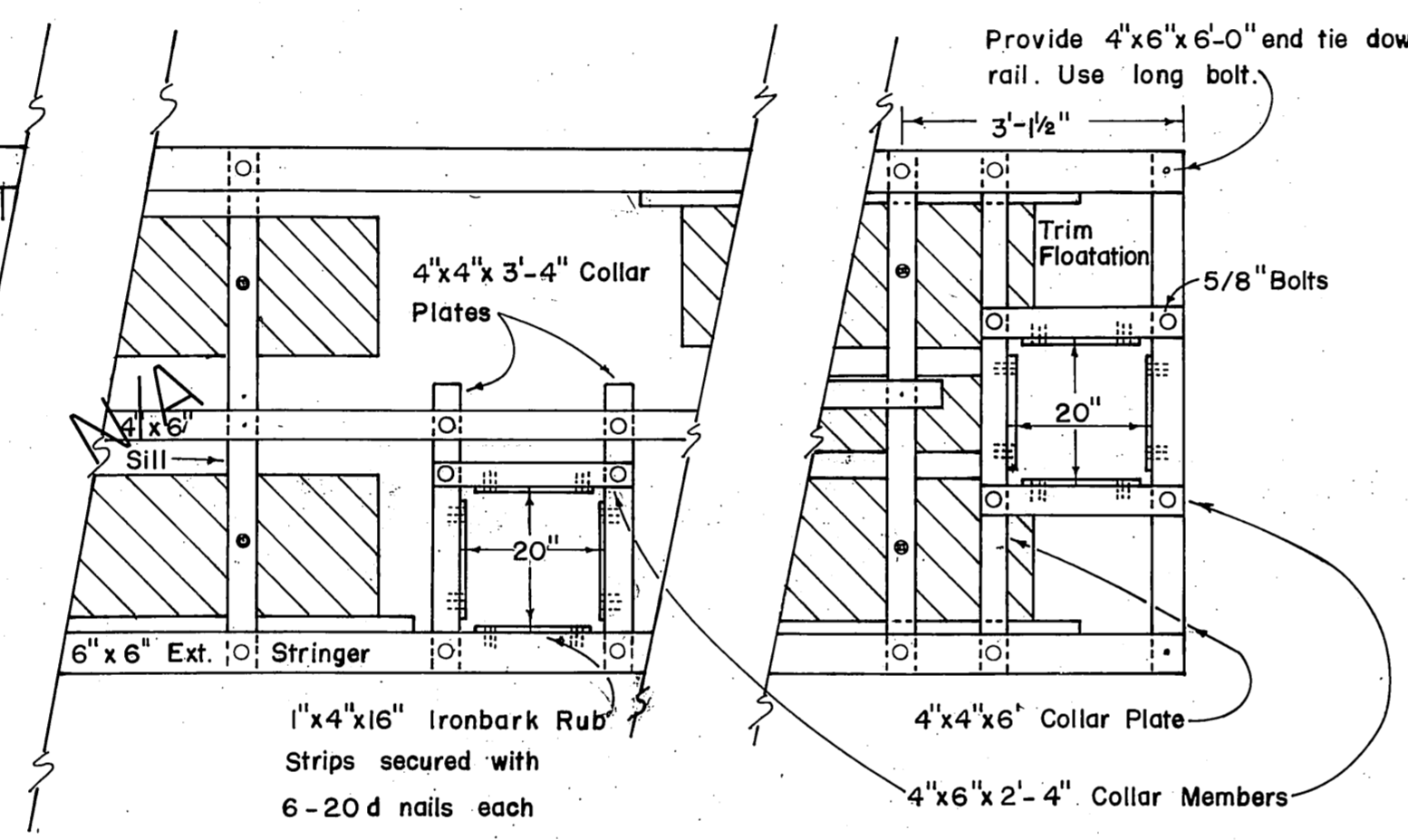


ELEVATION
1/2" = 1'-0"

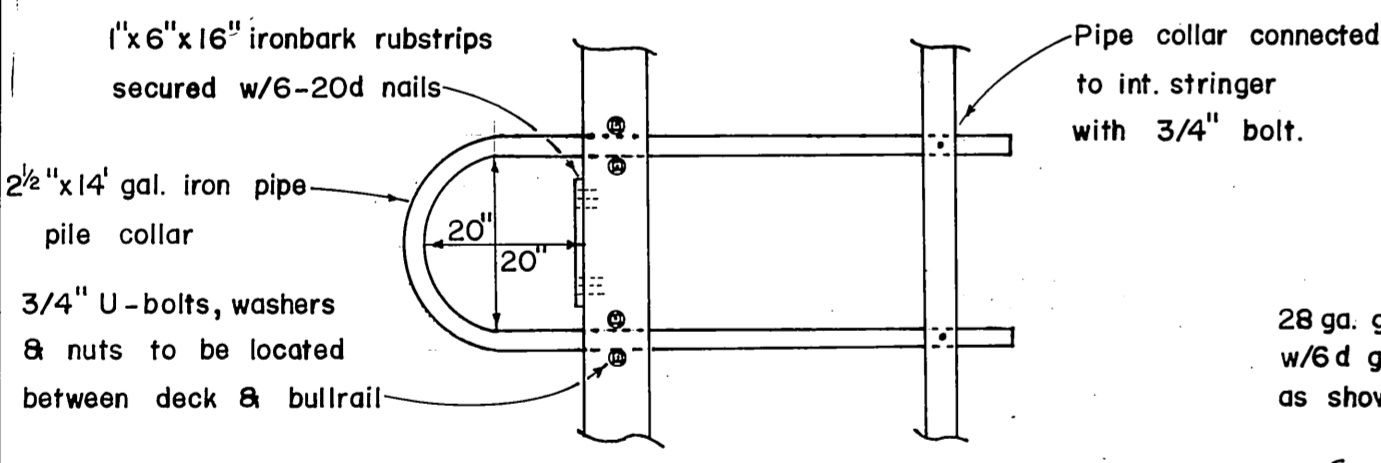
Secure 2 Rub Strips to bear partially on Collar Plate as shown.



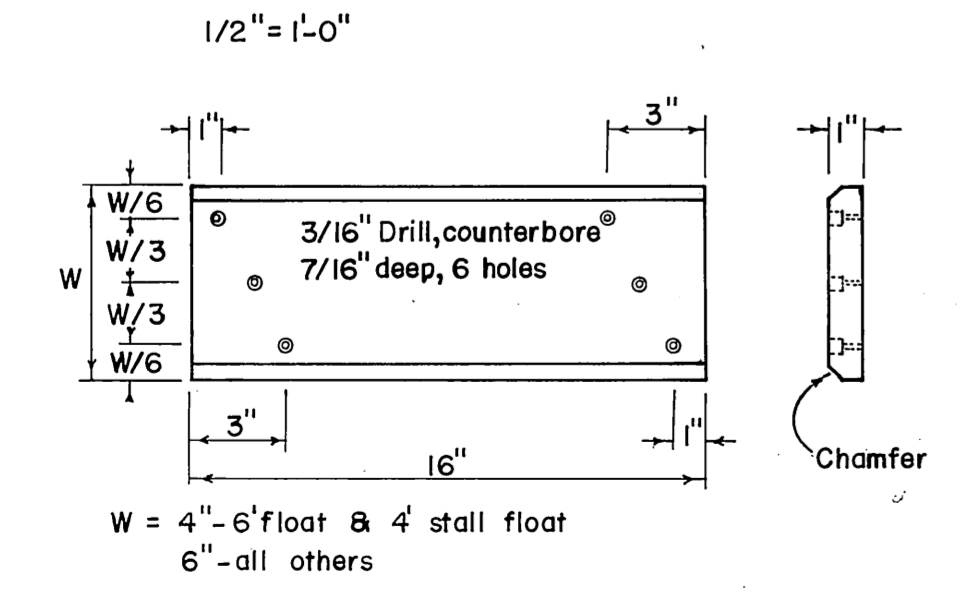
FLOTATION PIN DETAIL
Scale: 3" = 1'-0"



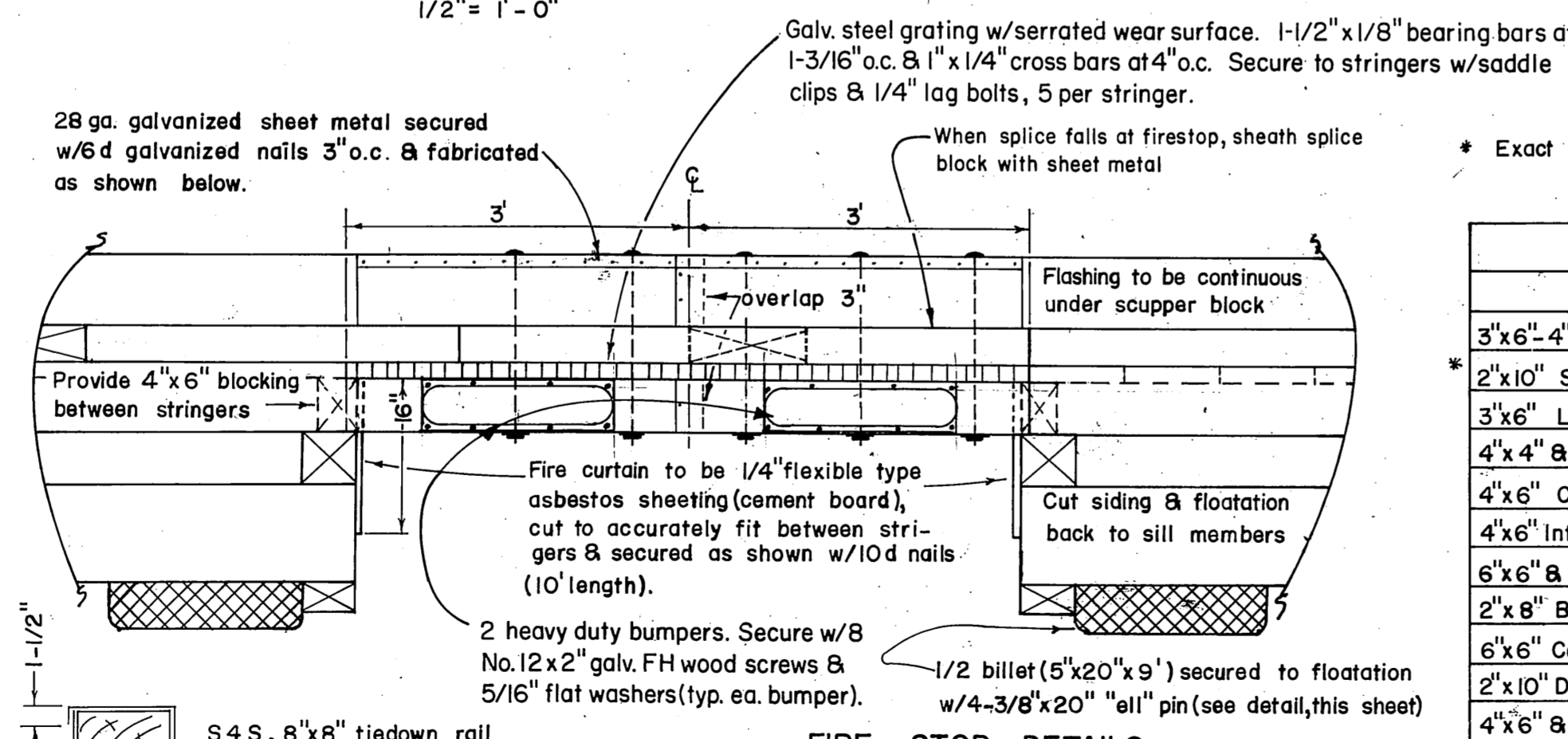
CONNECTION & COLLAR DETAIL
1/2" = 1'-0"



PIPE PILE COLLAR DETAIL
1/2" = 1'-0"

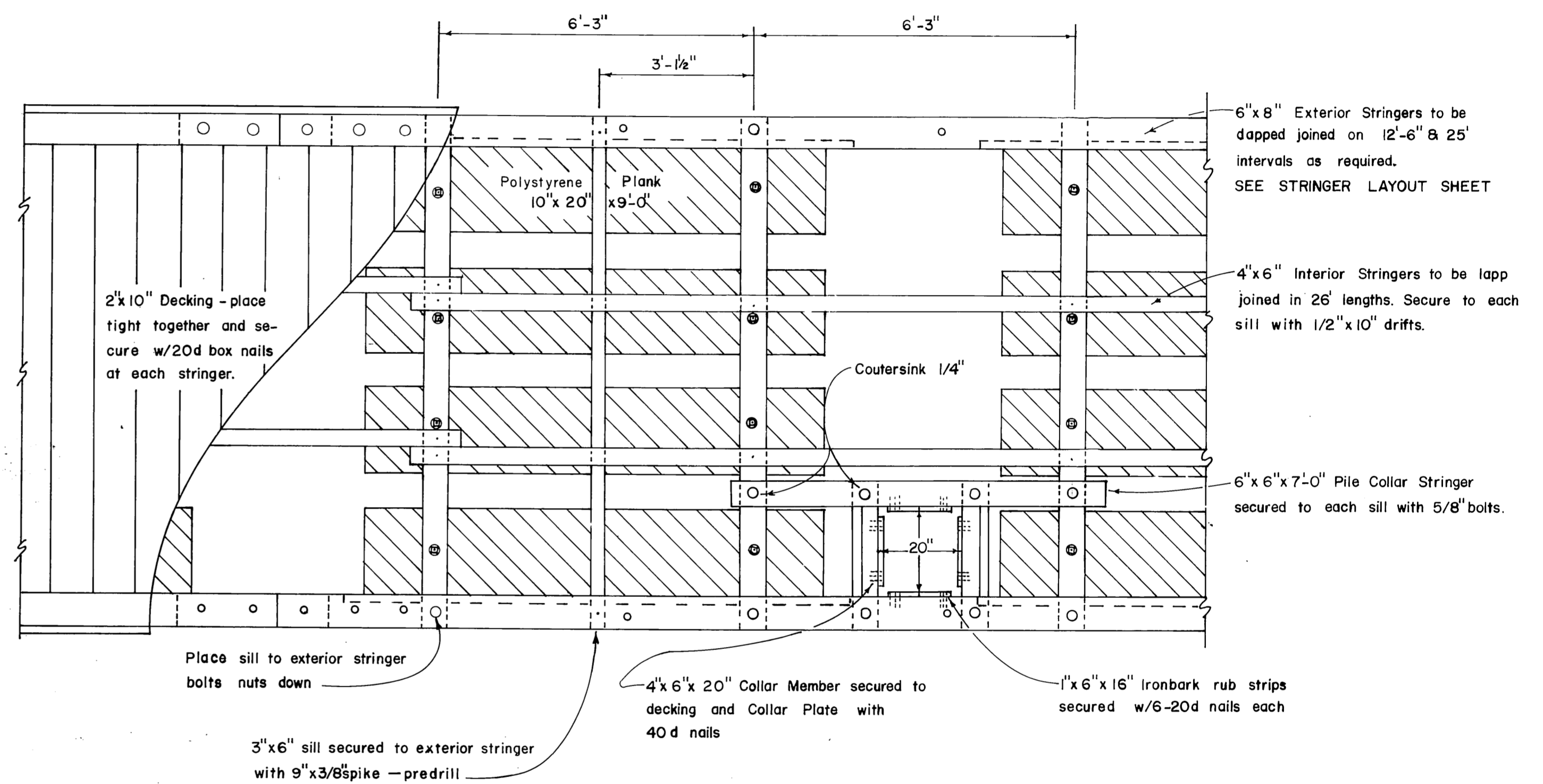


IRONBARK RUB STRIP
1" = 6"



FIRE STOP DETAILS
Scale 3/4" to 1'-0"

NOTES:
Secure grating to stringers with saddle clips & 1/4" lag bolts - 5 at each stringer per 6' width



PLAN VIEW 10' FLOAT
1/2" = 1'-0"

* Exact width to conform to width of floatation material

ITEM	DRESSING	TREATMENT
3' x 6" - 4' x 6" & 6' x 6" upper sill	S-1-E 1/8" off	12 lbs. ret.
2" x 10" Siding	2" x 10 1/2"	" "
3' x 6" Lower Sill	Rough	" "
4' x 4" & 3' x 6" Collar Plates	Rough	8 lbs. ret.
4' x 6" Collar Members	S-2-E	" "
4' x 6" Interior Stringers	" "	" "
6' x 6" & 6' x 8" Ext. Stringers	S-4-S	" "
2' x 8" Bumpers	" "	" "
6' x 6" Collar Stringers	" "	" "
2' x 10" Decking	S-1-S-2-E	" "
4' x 6" & 4' x 8" Blocking	S-4-S	" "
6' x 6" & 8' x 8" Rail	" "	" "

All material to be construction grade Douglas Fir
All piling will be Class A creosoted to 12 lbs. retention
All 12 lb. ret. creosoted treatment to be Full Cell
All 8 " " " " " " " " Empty "

PRE-DRILLED BOLT HOLES

COLLAR MEMBERS - all holes
SILLS - holes for floatation plank bolts
STRINGERS - l. holes for stringer to sill bolts

TIE DOWN RAIL - all holes
PILE COLLAR STRINGER - 10' FLOAT - all holes

FIELD DRILLED BOLT HOLES
SILLS - l. holes for stringer to sill bolts
2. pile collar stringer to sill

PILE COLLAR INT. STRINGER - 6' FLOAT - all holes
RAIL BLOCKING - all holes
COLLAR PLATES - all holes
EXT. STRINGER - l. holes for tiedown rail bolts
2. " " " " " " " " pile collar plate bolt

NOTES

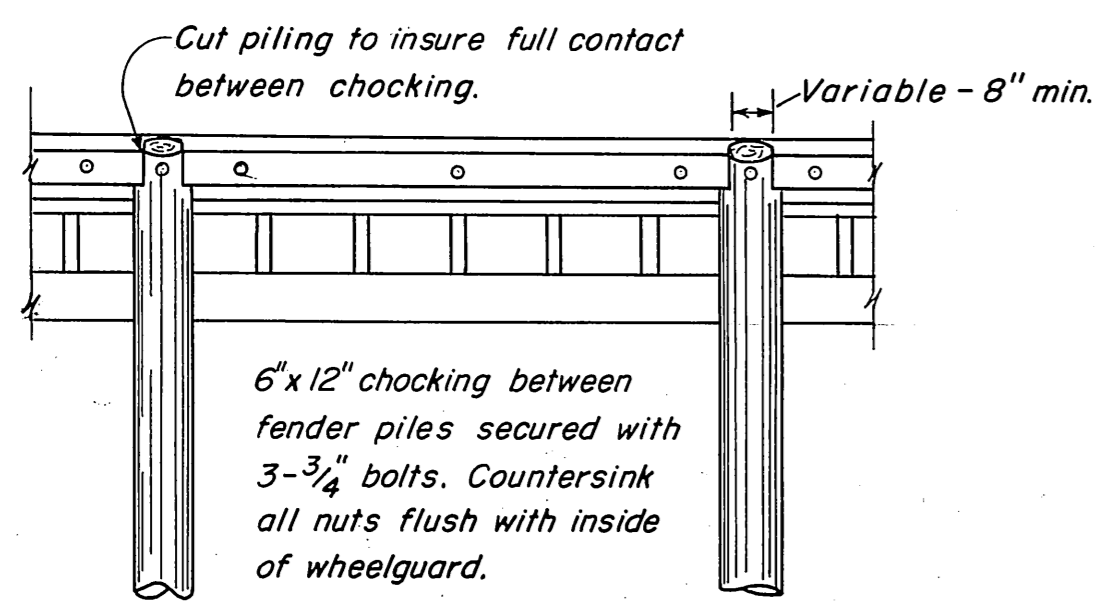
All hardware to be hot-dipped galvanized. A malleable iron washer shall be placed between all nut and wood surfaces. All bolts to be of the economy headed type. Bolt holes to be drilled 1/16" oversize except sill bolt holes for floatation planks 1/8" oversize. Drift holes to be drilled 1/16" undersize. All field drill holes shall be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment. Tie down rails shall extend across all float ends except under gangway. All bolt heads facing decking shall be countersunk 1/4" previous to treatment. Field drill all drift bolt holes. A barrier of 6 mil black polyethylene shall be placed between the contact surfaces of all creosote timber and floatation material (except float siding members).

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

TYPICAL FLOATS

SCALE As Shown
DATE April 1968
PROJ. NO. APPROVED DON STATTER DIRECTOR

DESIGNED BY RPH-DS DRAWN BY MI CHECKED BY DS

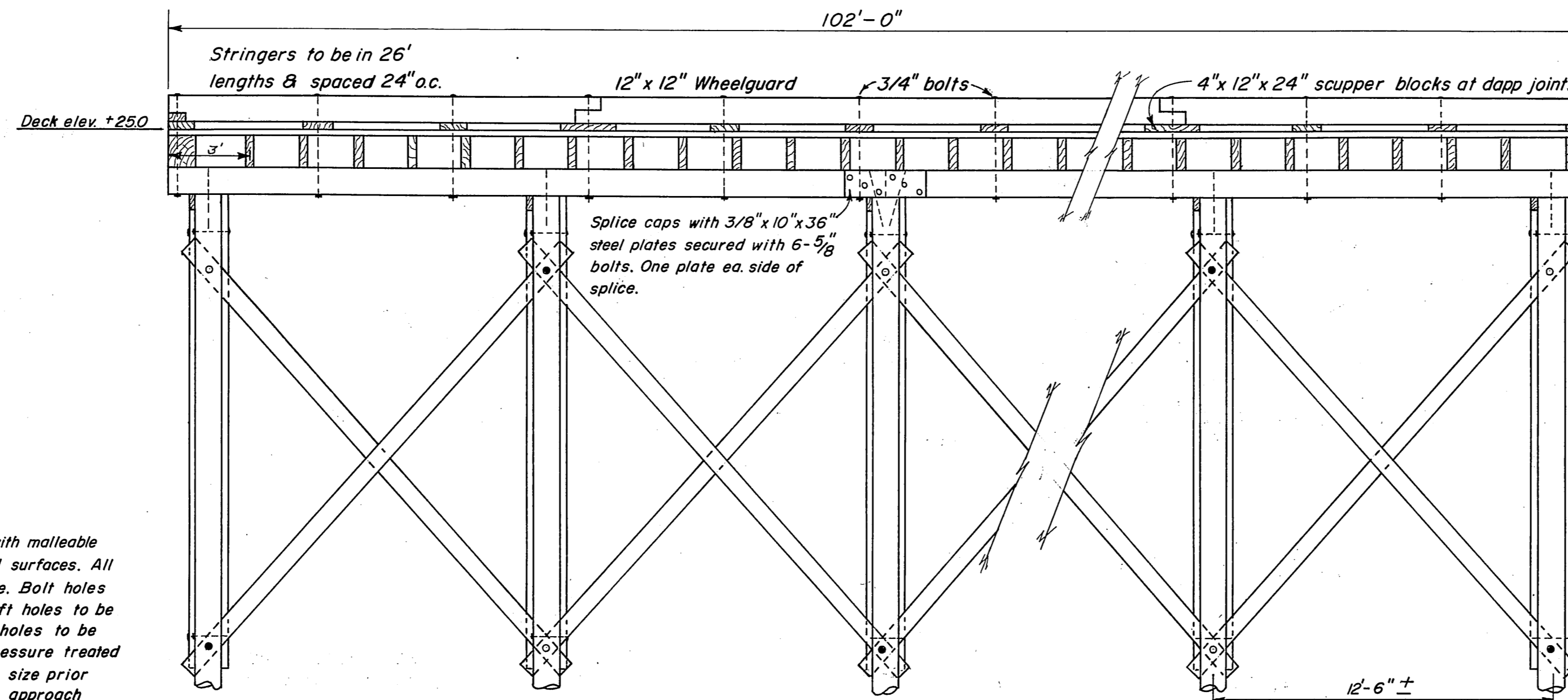


FENDER PILE DETAIL

Scale: 1/4" = 1'-0"

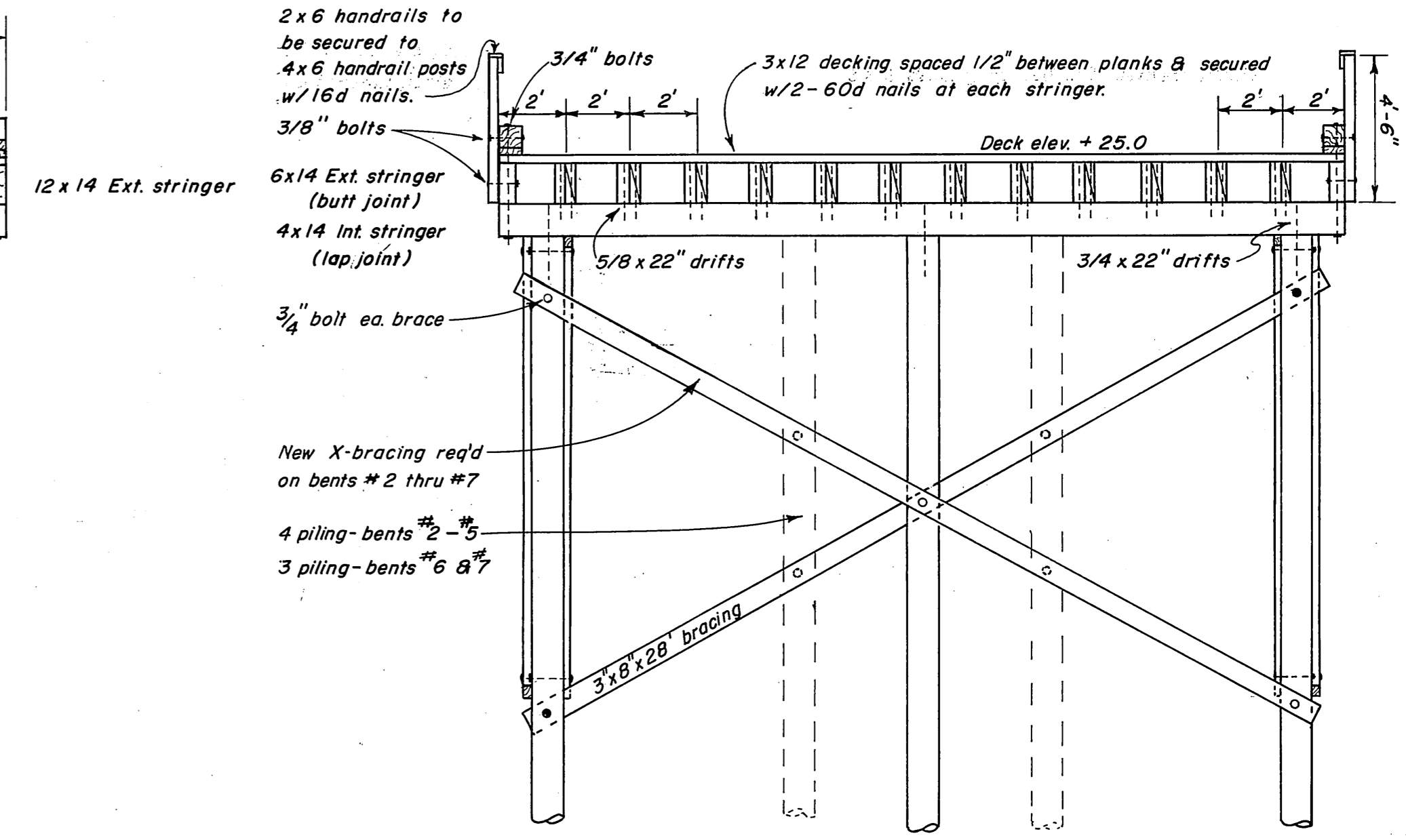
GENERAL NOTES

All hardware to be galvanized with malleable iron washers between nut and wood surfaces. All bolts to be of mushroom head type. Bolt holes to be drilled 1/16" oversize. Drift holes to be drilled 1/16" undersize. All drill holes to be treated with hot creosote. All pressure treated creosote material shall be cut to size prior to treatment, except dock caps & approach exterior stringers may be field cut.



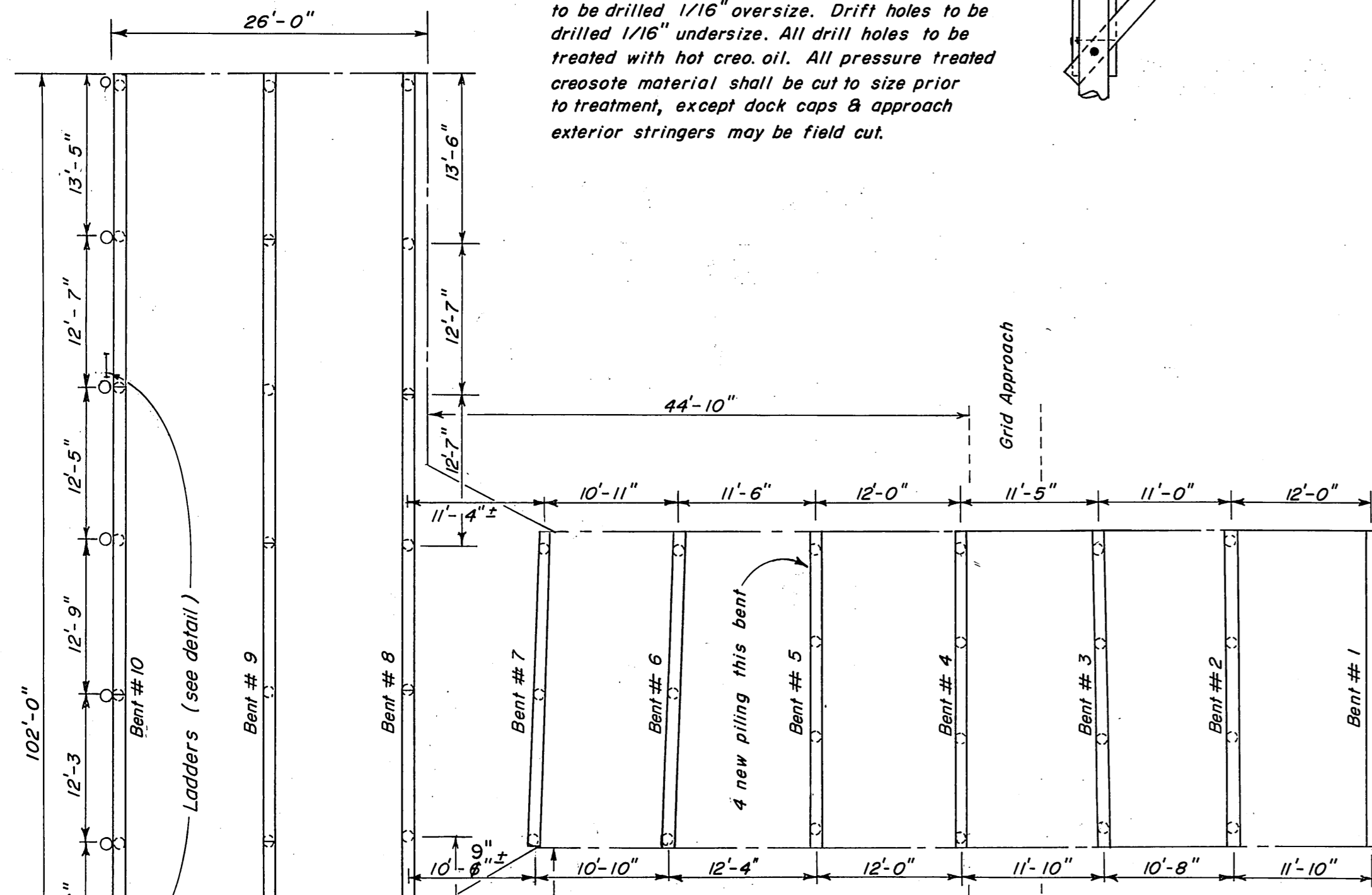
ELEVATION DOCK FACE

Scale: 1/4" = 1'-0"



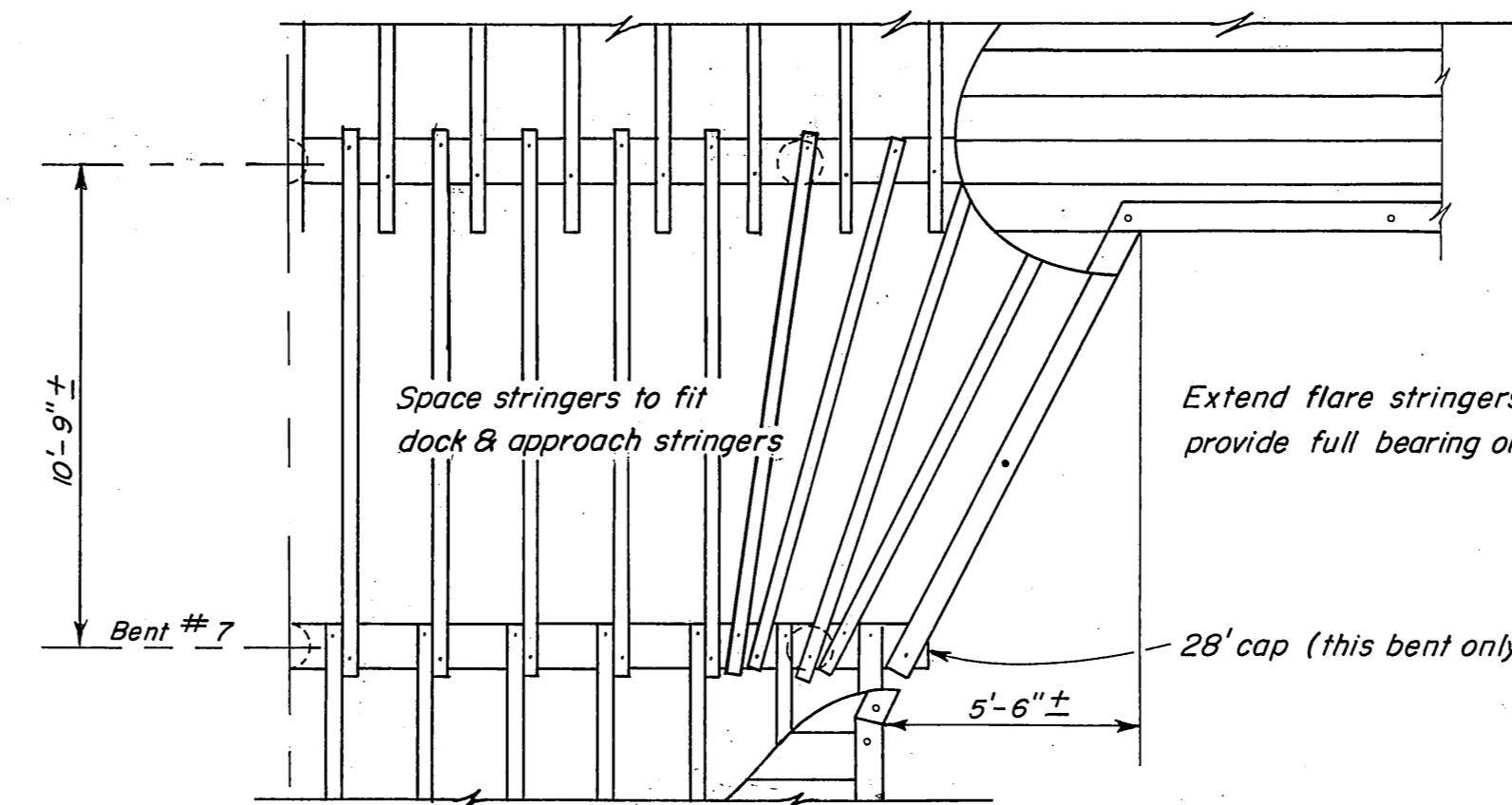
APPROACH SECTION

Scale: 1/4" = 1'-0"



CAP & PILE LAYOUT

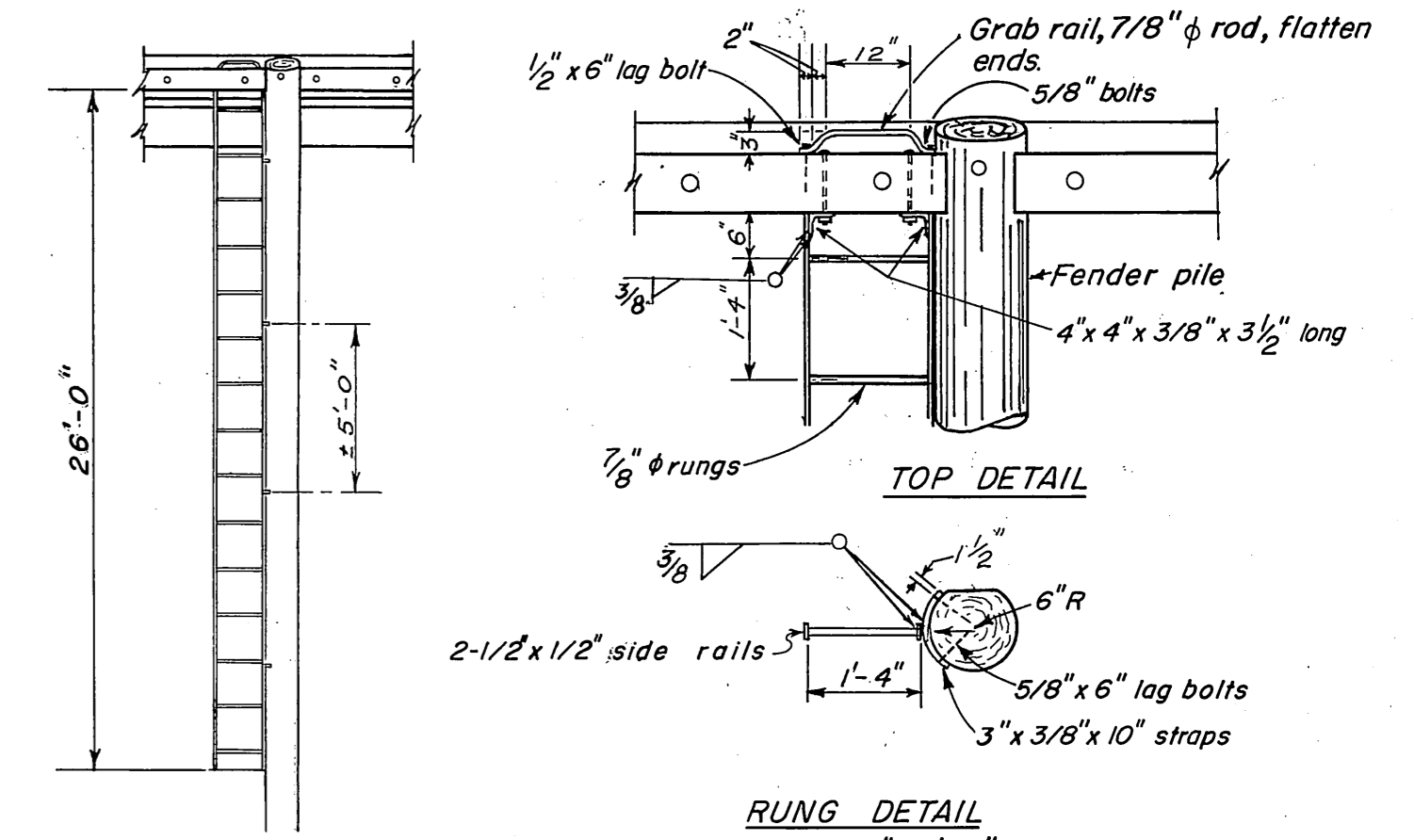
Scale: 1" = 1'-0"



**APPROACH FLARE DETAIL
STRINGER LAYOUT**

Scale 1/4" = 1'-0"

(TYPICAL FOR BOTH SIDES OF APPROACH)
HANDRAILS OMITTED FOR CLARITY

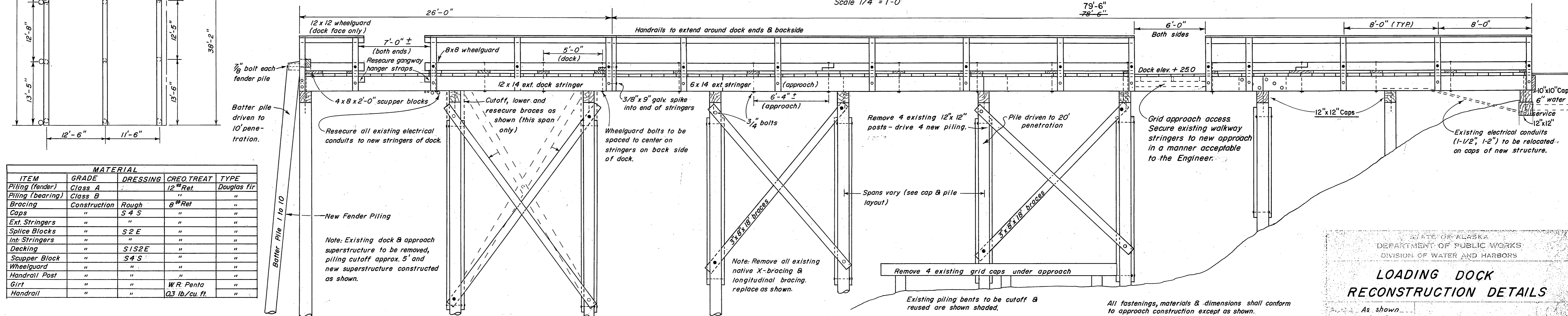


**ELEVATION
LADDER DETAILS**

Scale: 3/16" = 1'-0"

LADDER DETAILS

(2 req'd - see Dock Piling & Cap Layout for locations)



DOCK END VIEW & APPROACH PROFILE

Scale: 1/4" = 1'-0"

All fastenings, materials & dimensions shall conform to approach construction except as shown.

ITEM	GRADE	DRESSING	CREO.TREAT	TYPE
Piling (fender)	Class A		12 th Ret.	Douglas Fir
Piling (bearing)	Class B		"	"
Bracing	Construction	Rough	8 th Ret.	"
Caps	"	S 4 S	"	"
Ext. Stringers	"	"	"	"
Splice Blocks	"	S 2 E	"	"
Int. Stringers	"	"	"	"
Decking	"	S 1 S 2 E	"	"
Scupper Block	"	S 4 S	"	"
Wheelguard	"	"	"	"
Handrail Post	"	"	"	"
Girt	"	"	W.R. Penta	"
Handrail	"	"	Q3 lb/cu.ft.	"

Note: Existing dock & approach superstructure to be removed, piling cutoff approx. 5' and new superstructure constructed as shown.

Note: Remove all existing native X-bracing & longitudinal bracing, replace as shown.

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

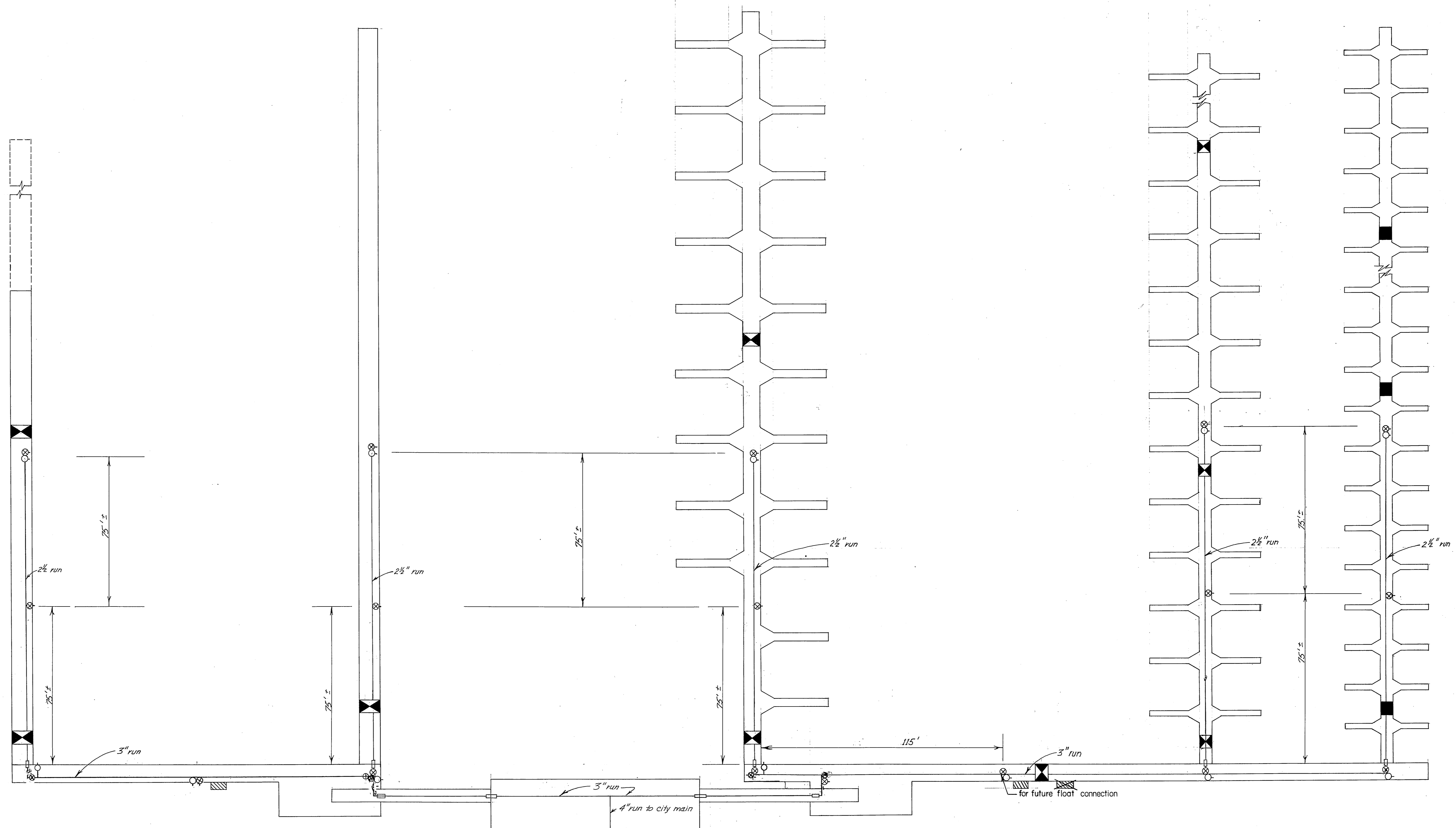
**LOADING DOCK
RECONSTRUCTION DETAILS**

As shown
6/27/88

APPROVED **DON STATTER**
DIRECTOR

DESIGNED BY **DW** DRAWN BY **CEJ**

SHEET 6 OF 9 SHEETS



- hydrant
- ⊗ drain
- ⊕ line valve
- flexible connection
- pipe run
- ▨ equipment storage building
- ⊠ new firestop
- reconstruct existing firestop

Notes:
 1) Piping to be provided and installed as per "Typical Fire and Water Distribution" sheet.
 2) Locations as shown on this sheet are approximate only and may be varied as required to miss stall floats and sill members.

Extra pipe tee for grids
 1 1/2" System to be connected from approach to City water system by others

PLAN
 Fire and Water System
 SCALE 1" = 25'

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

Fire Protection & Domestic Water System Layout

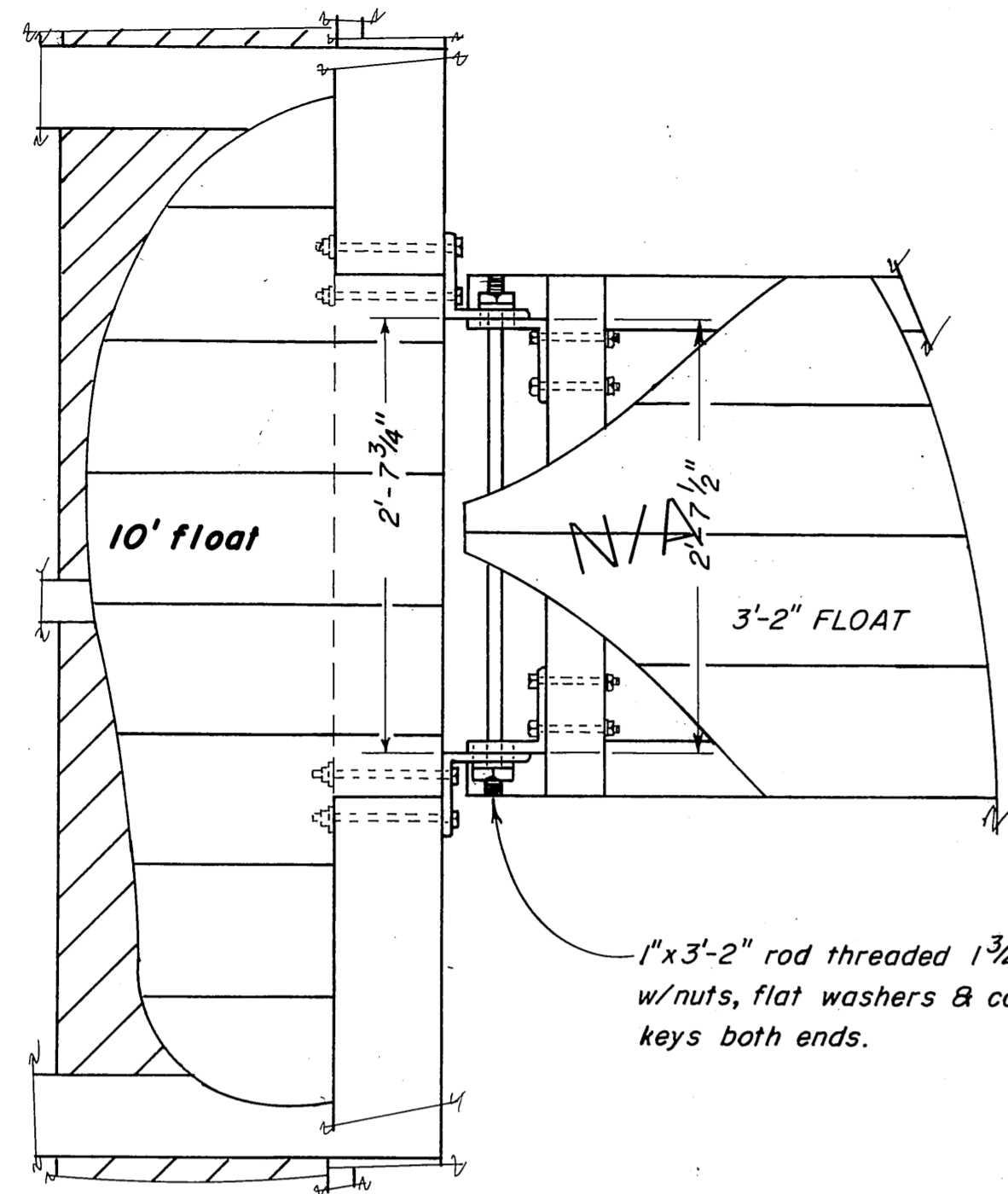
SCALE 1" = 25'
 DATE June, 1968
 PROJ. NO. 3-69145

APPROVED Don Statter
 director

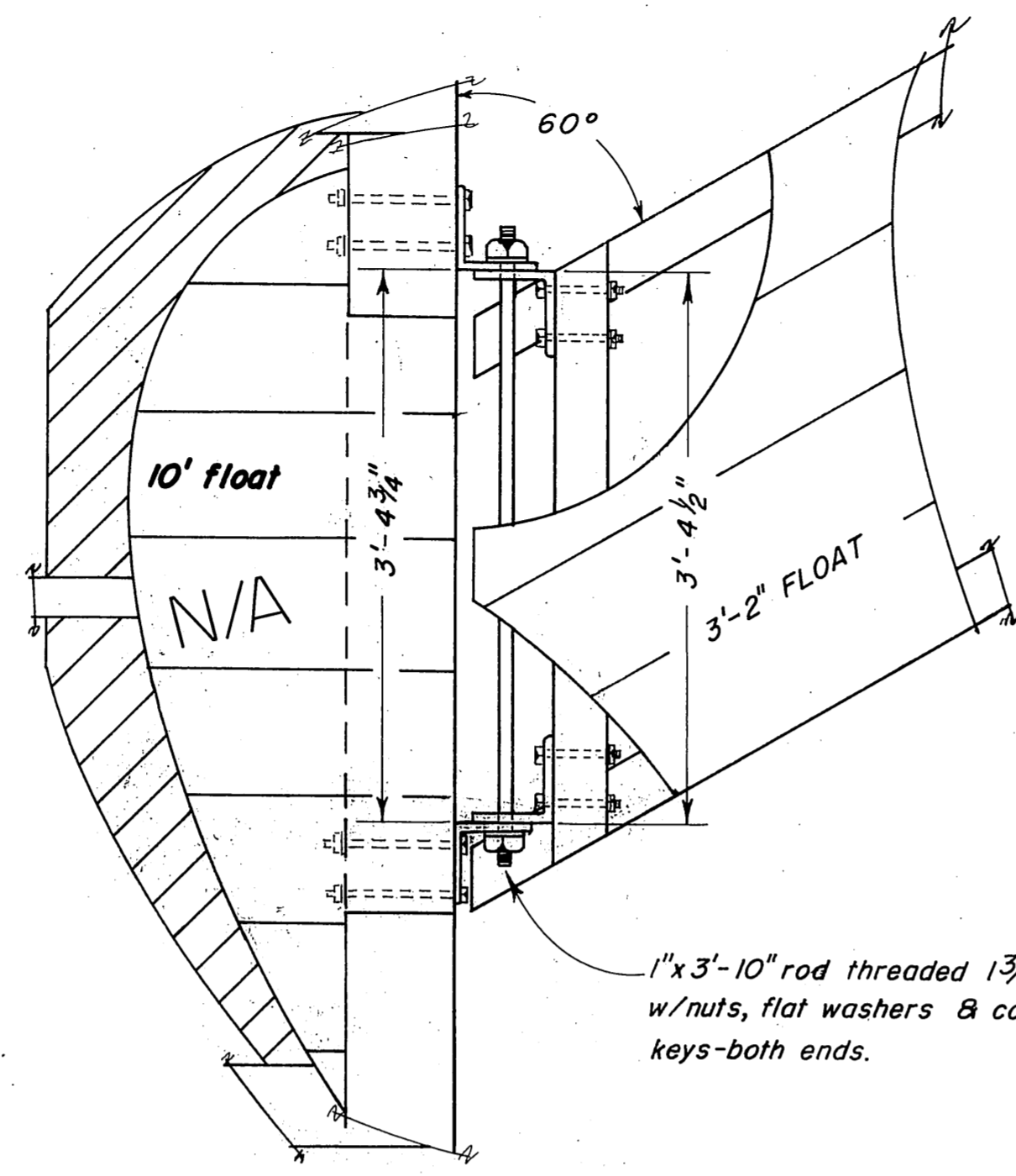
CHECKED BY ENC

PAGE 8 OF 9

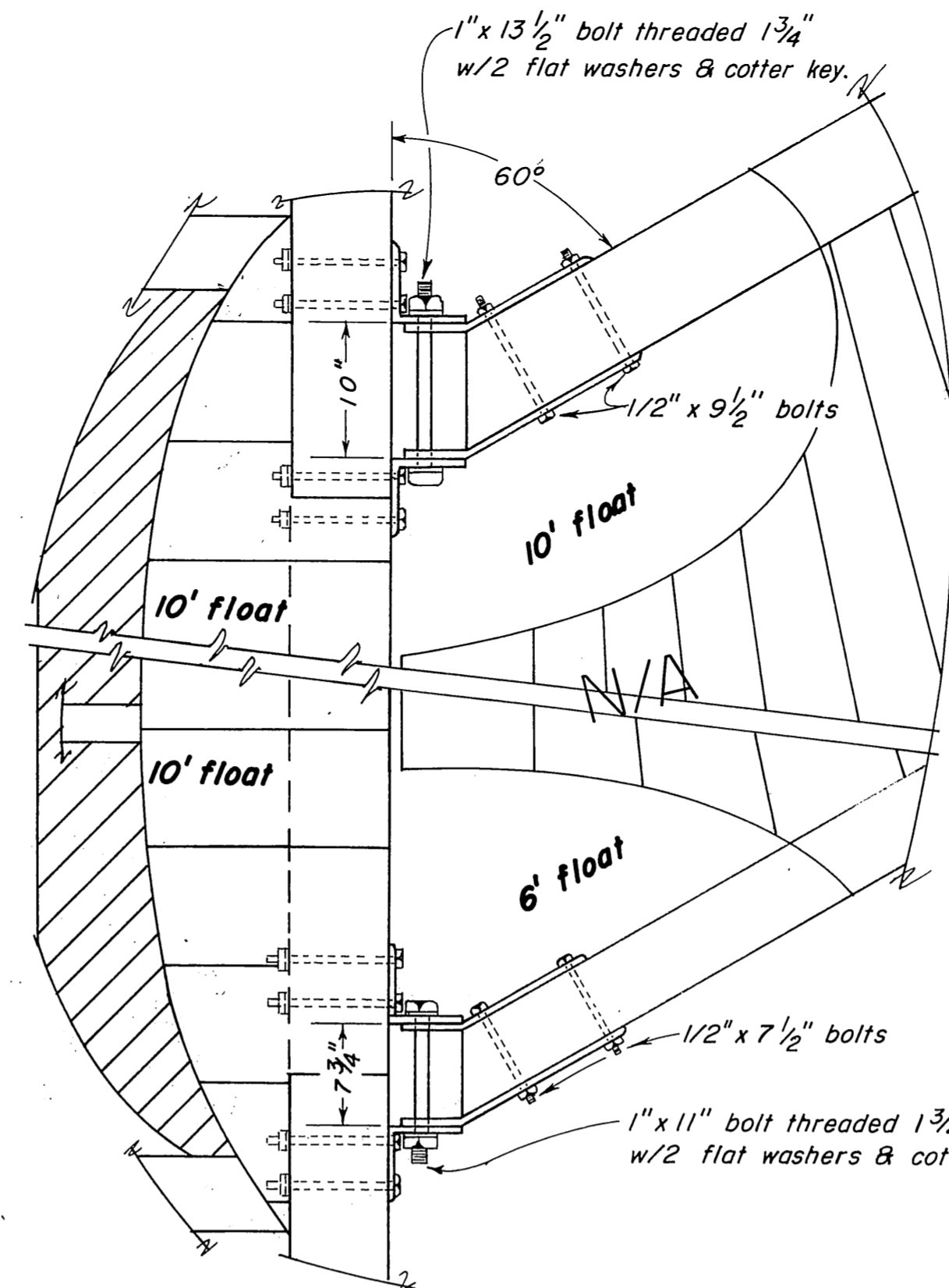
NOTE:
All cotter keys to be 3/16" x 1 3/4"
drill holes located 1/2" from end of bolt.



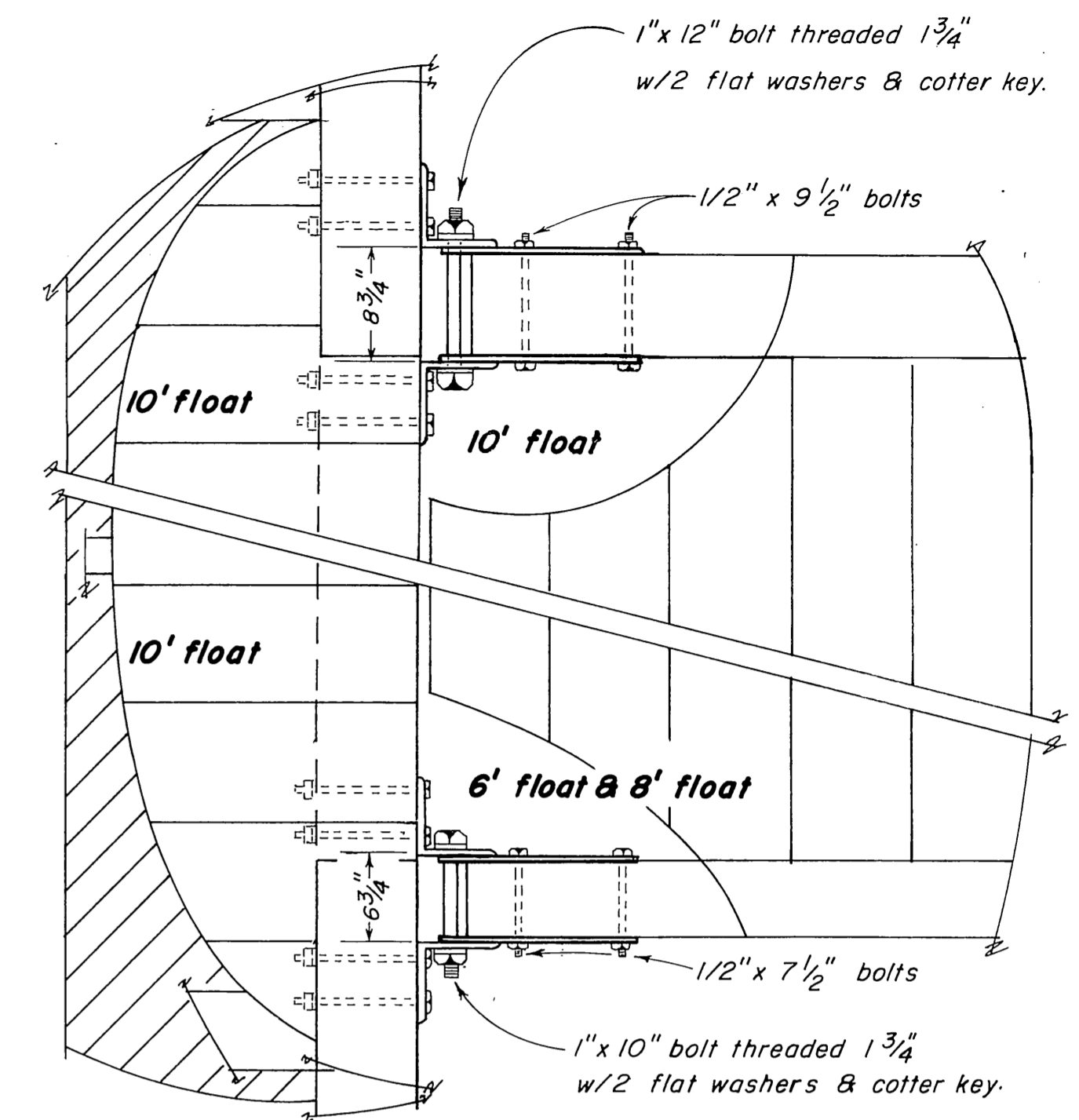
Plan - cutaway view



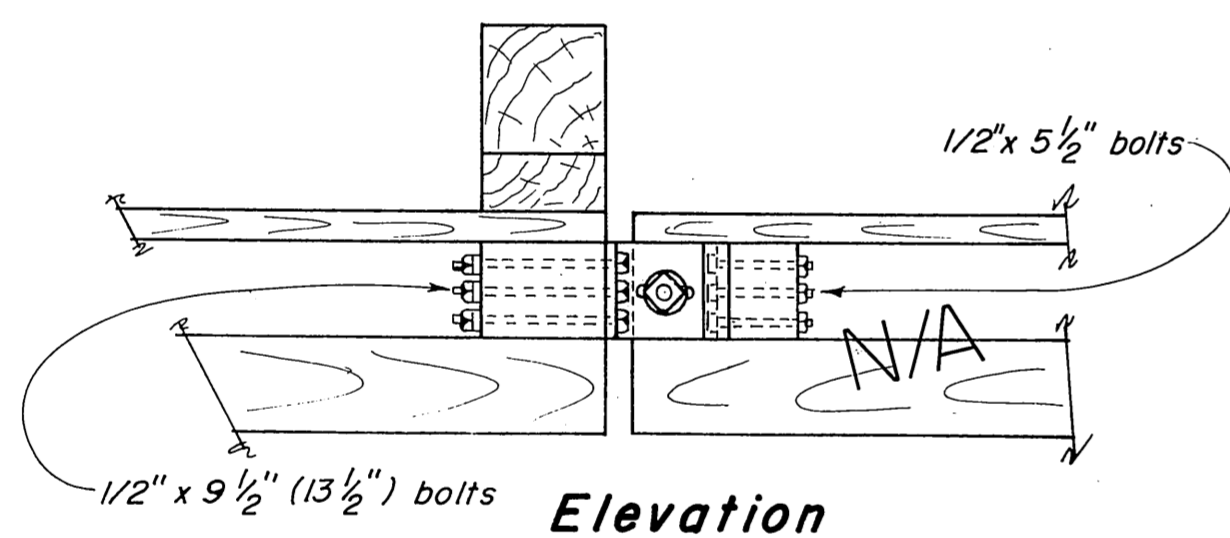
Plan - cutaway view



Plan - cutaway views

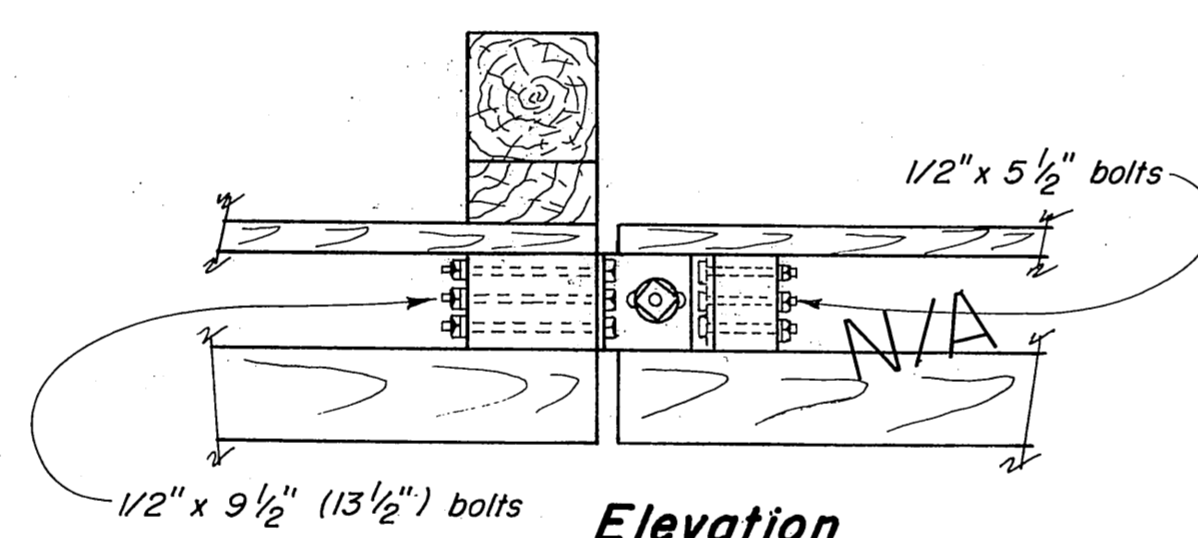


Plan - cutaway views



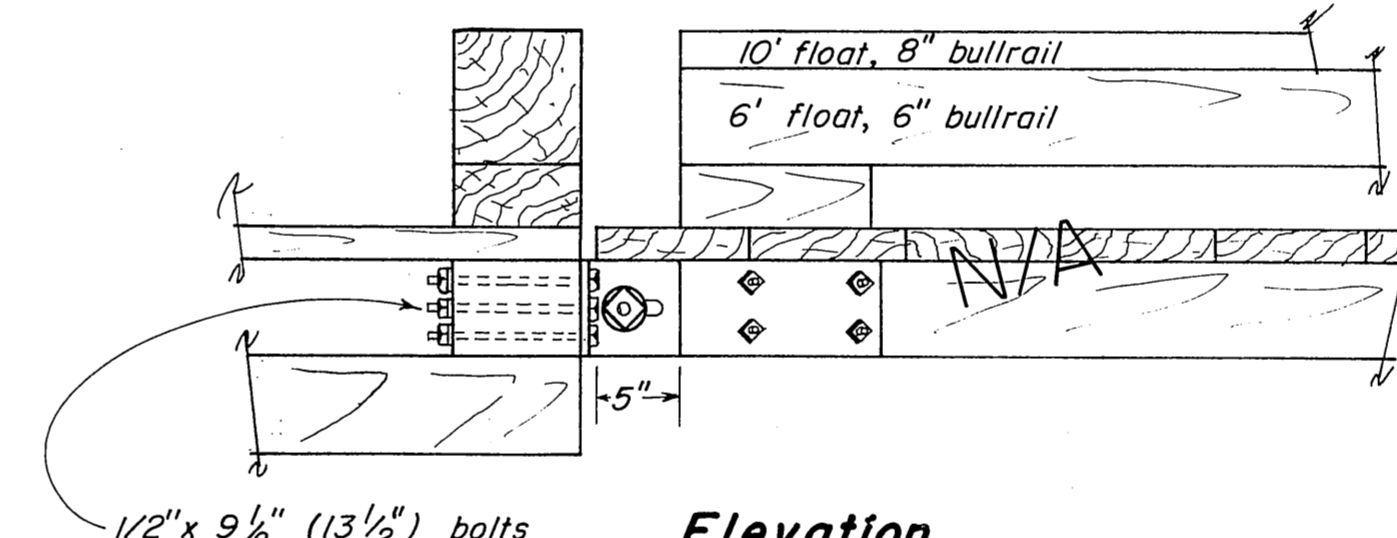
3'-2" FLOAT
Right angle connection

Scale 1" = 1'-0"



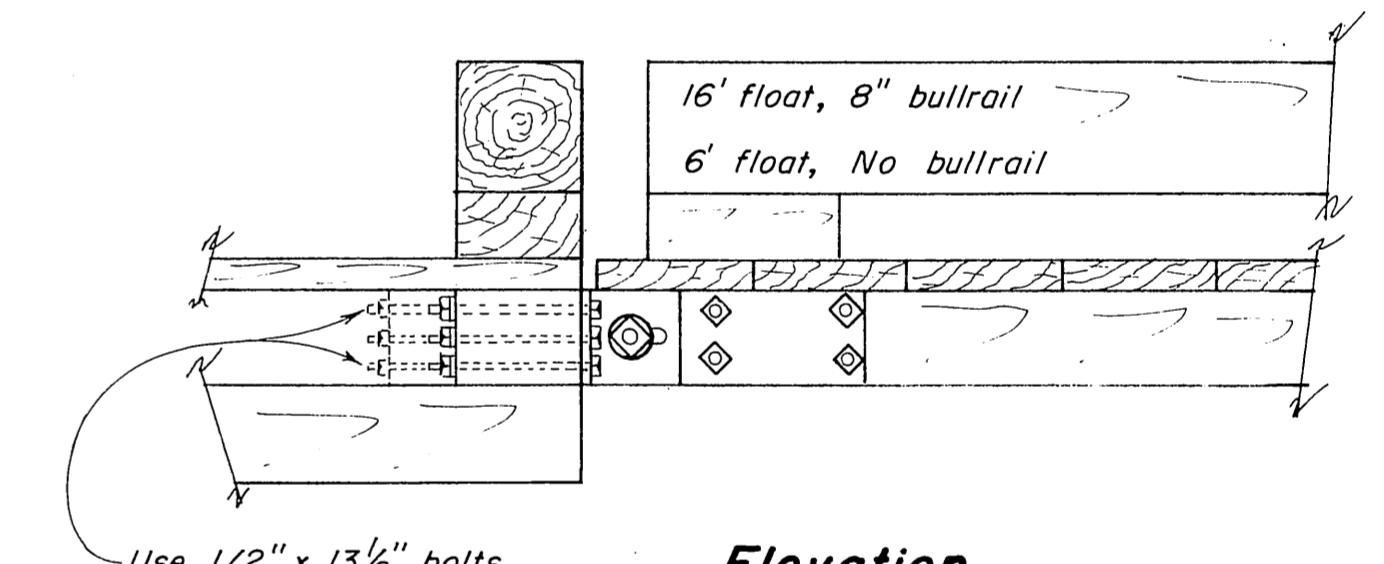
3'-2" FLOAT
60 degree connection

Scale 1" = 1'-0"



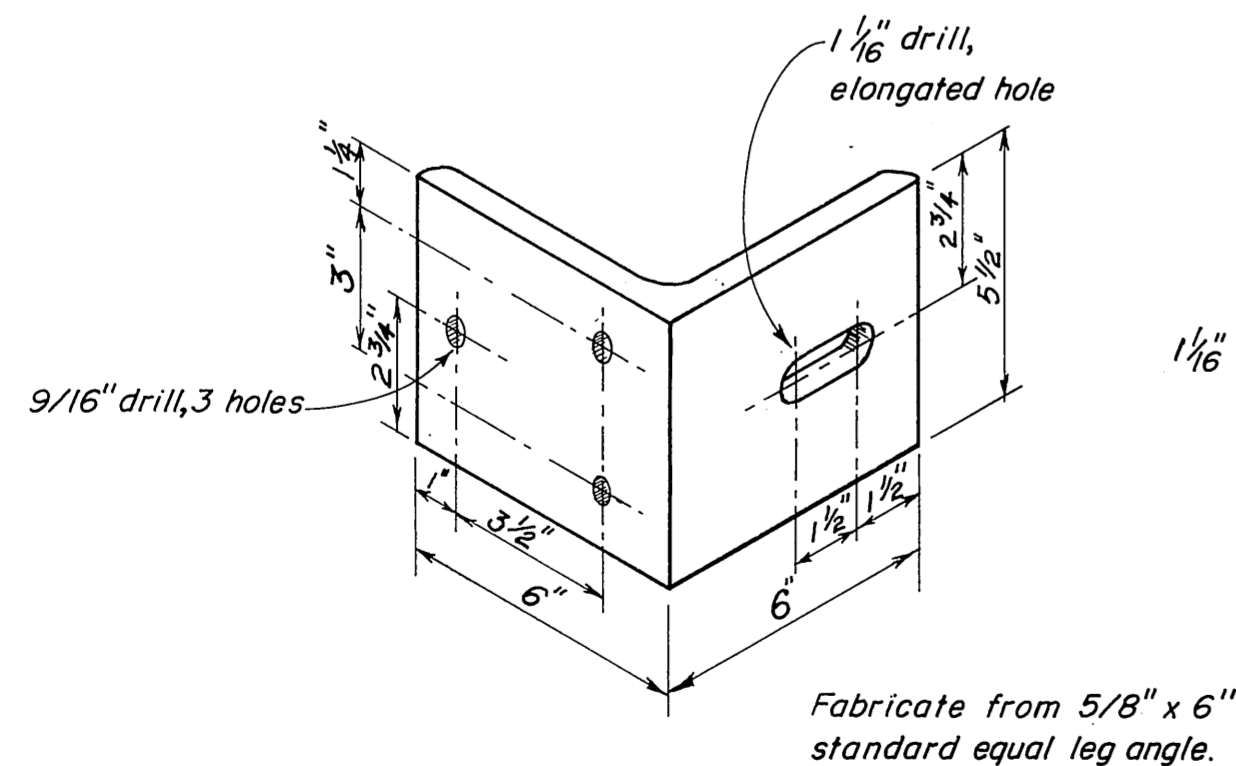
6' & 10' FLOATS
60 degree connection

Scale 1" = 1'-0"



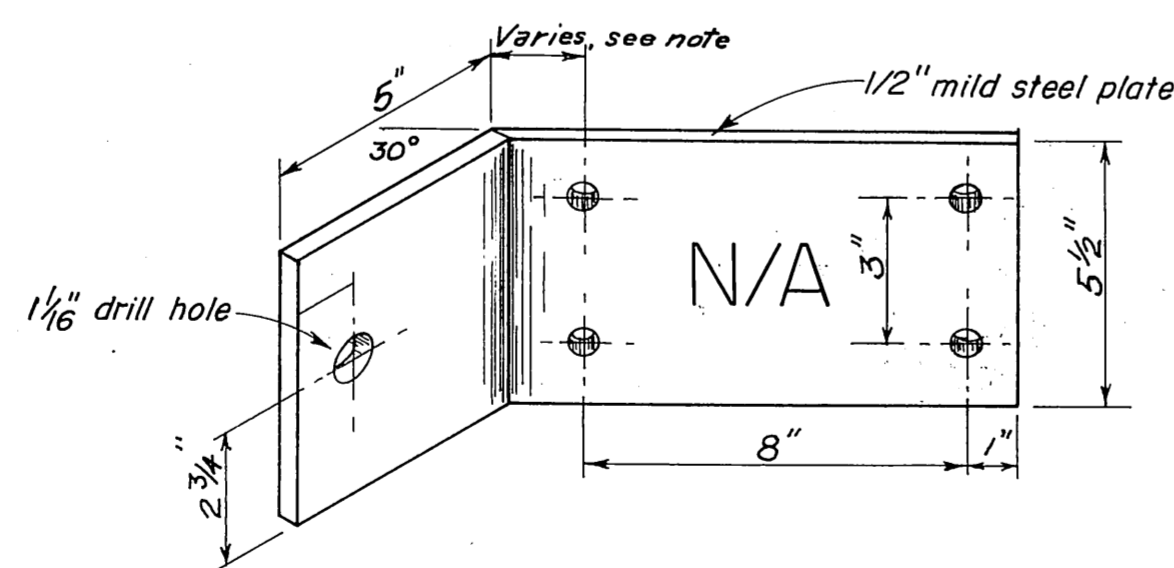
6' & 10' FLOATS
Right angle connection

Scale 1" = 1'-0"



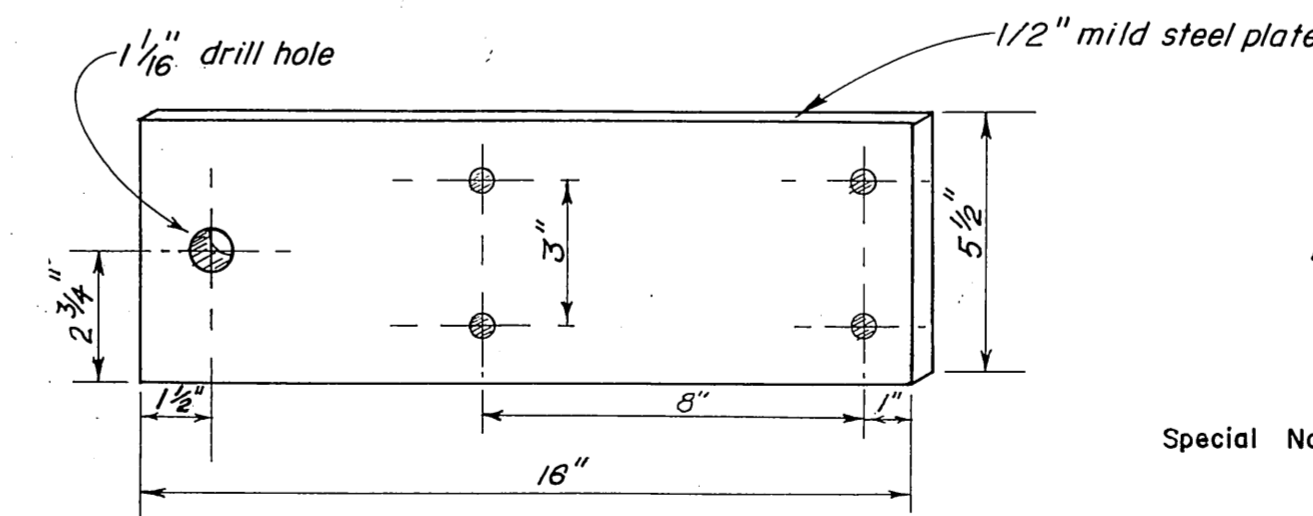
ANGLE CLIP DETAILS

Scale 3" = 1'-0"



BENT PLATE DETAILS

Scale 3" = 1'-0"



STANDARD PLATE DETAILS

Scale 3" = 1'-0"

NOTE: Variable dimension to be -
2" all short side plates for 16" plate
5 1/2" outside plates 6' angled float, for 10 1/2" plate
6 5/8" outside plates 10' angled float, for 20 5/8" plate
Special Note "A" 4 1/4" outside plates 6' angled float, for 18 3/4" plate.

STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS	
TYPICAL HINGE CONNECTION DETAILS	
SCALE <i>As Shown</i>	APPROVED <u>DON STATTER</u> DIRECTOR
DATE <u>August 15, 1968</u>	
PROJ. NO.	CHECKED BY
SURVEYED BY	DRAWN BY <u>CEJ</u>