

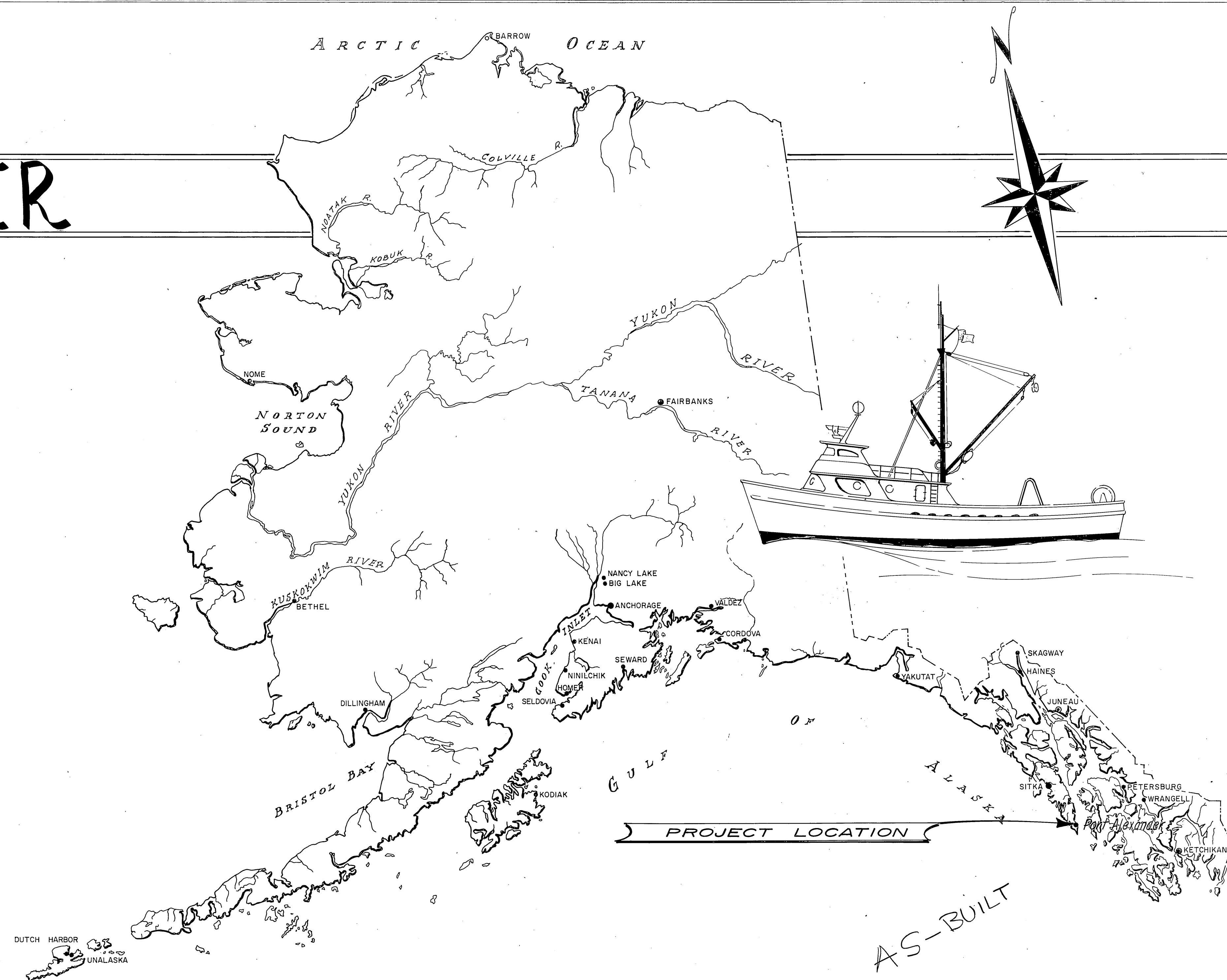
PORT ALEXANDER

PORT & HARBOR

IMPROVEMENTS

PORT
PROJECT No. 874027

HARBOR
PROJECT No. 377136



WORK SUMMARY

Project consists of constructing the following new items:

1. 10x150' Timber Float
2. 24'x68' Timber Barge
3. Barge Storage Grid
4. 4-5 Pile Timber Dolphins

Other project work items include new alignment of the existing float system, modification of gangway and seaplane float connections, installation of new steel pile collars on existing 10' float, & installation of new gangway transition covers.

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

INDEX TO SHEETS

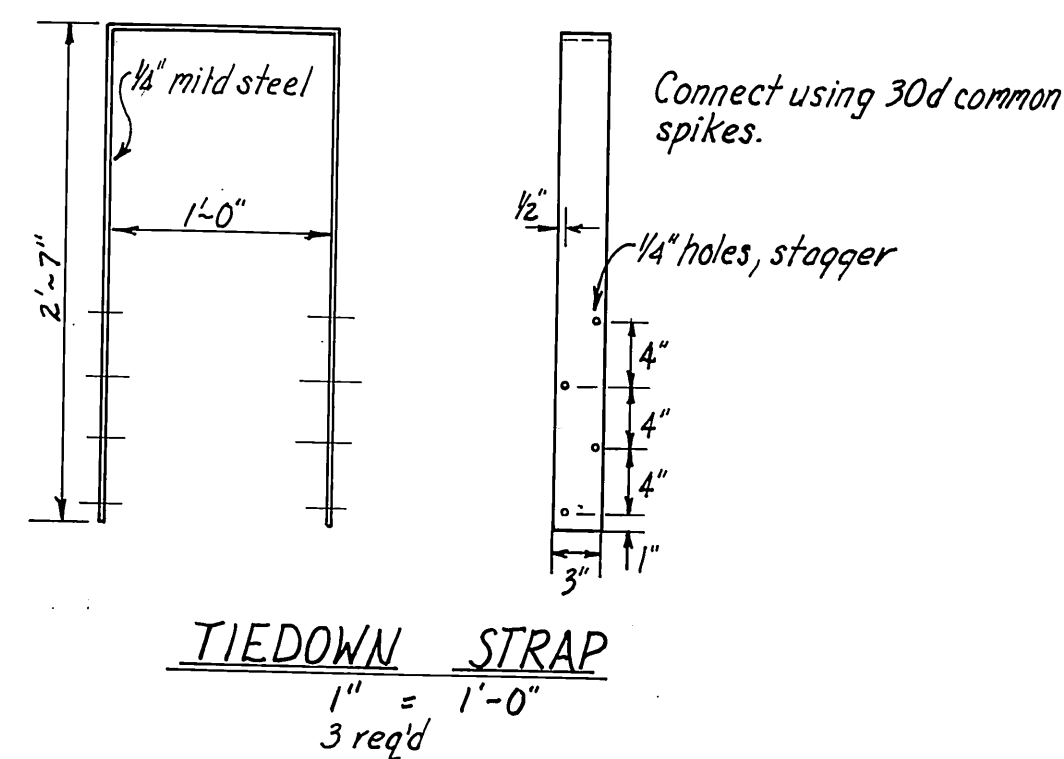
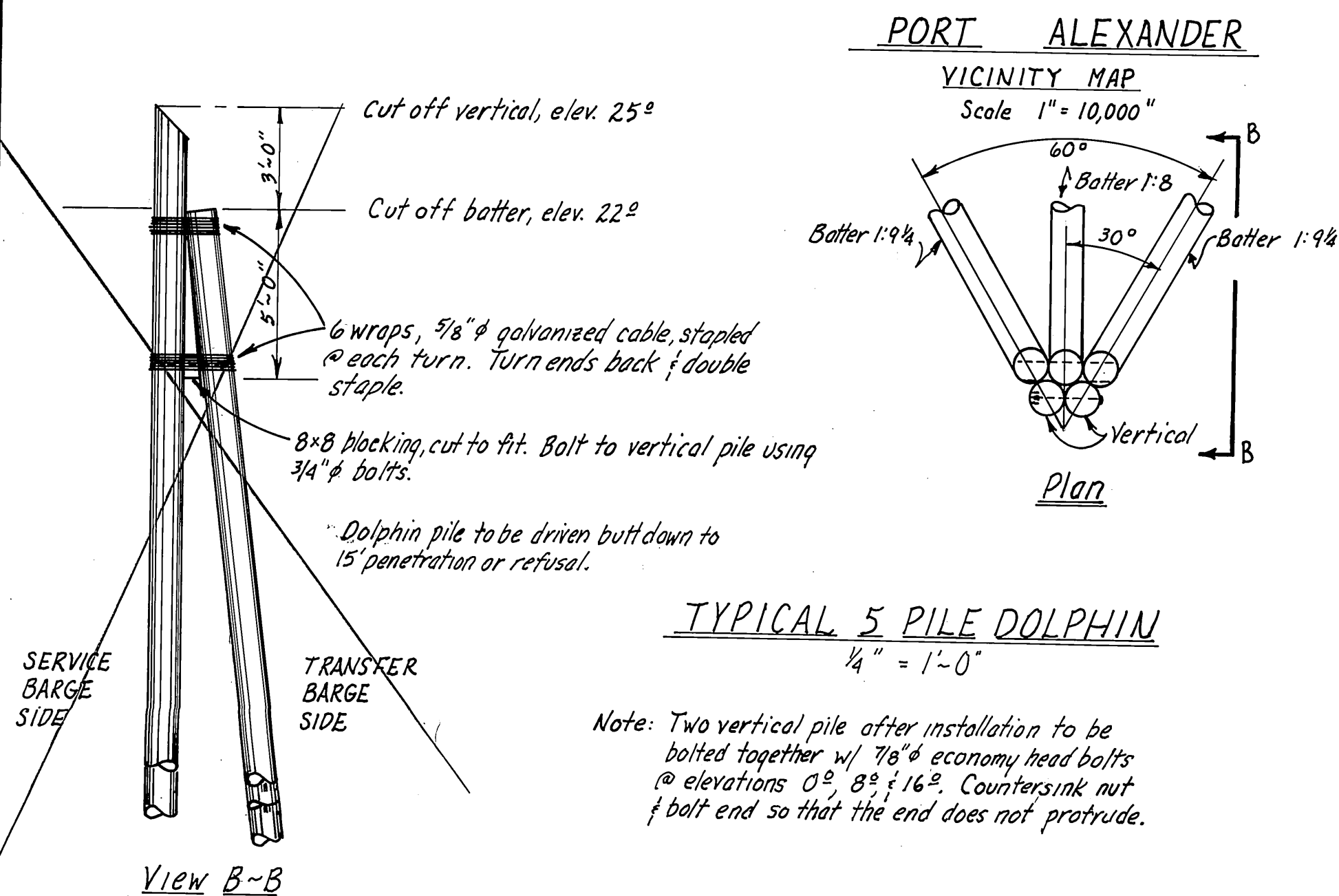
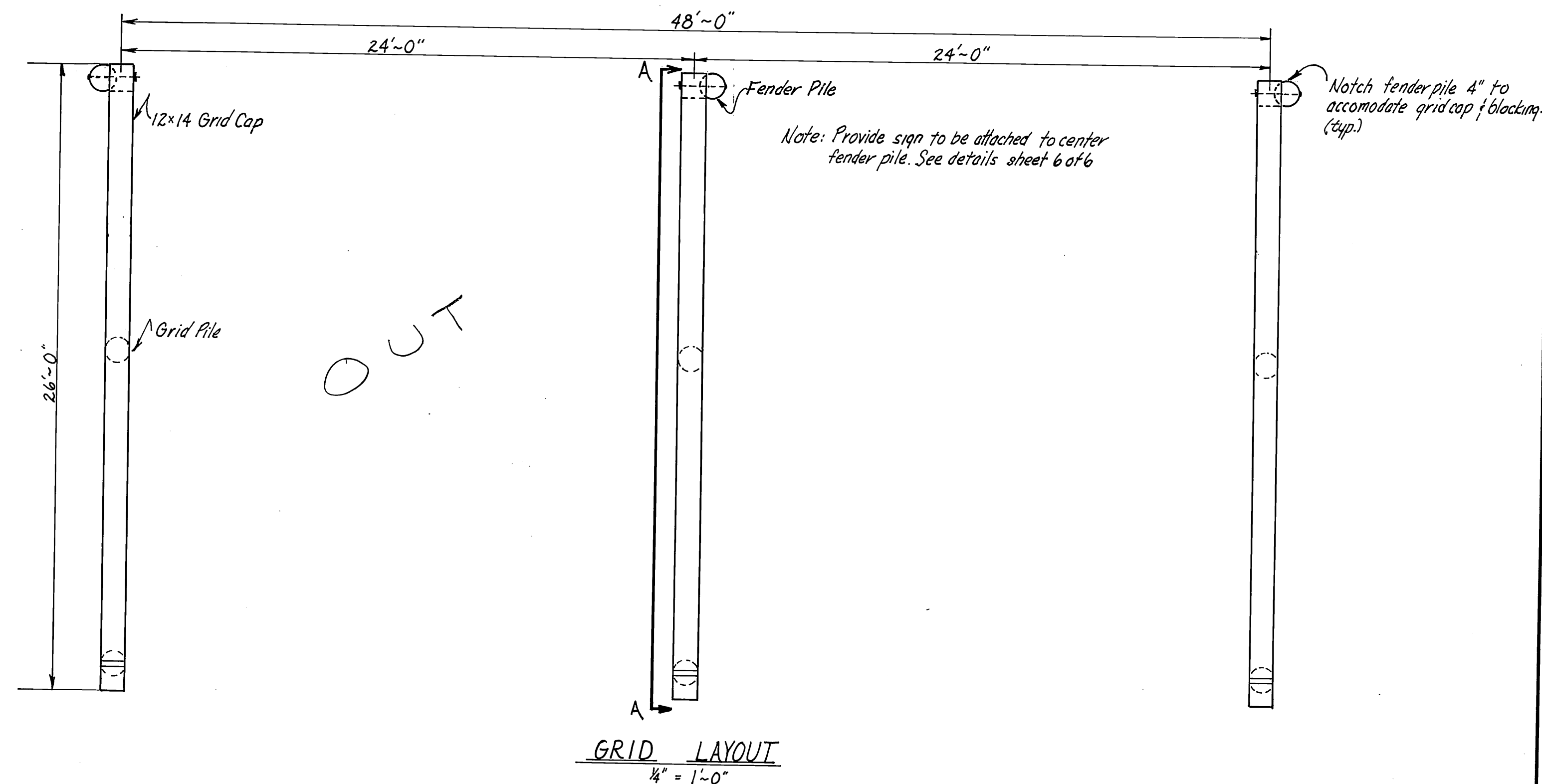
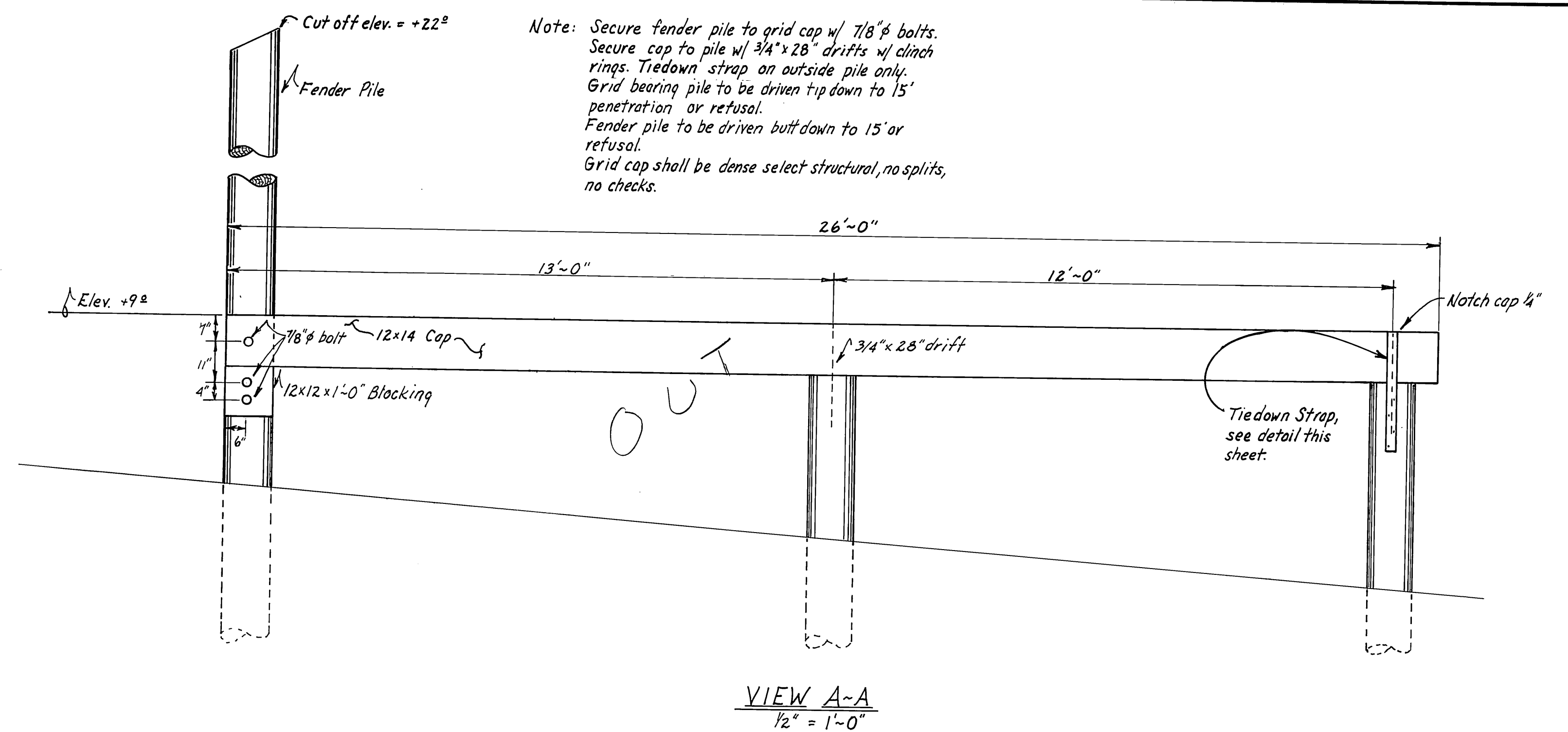
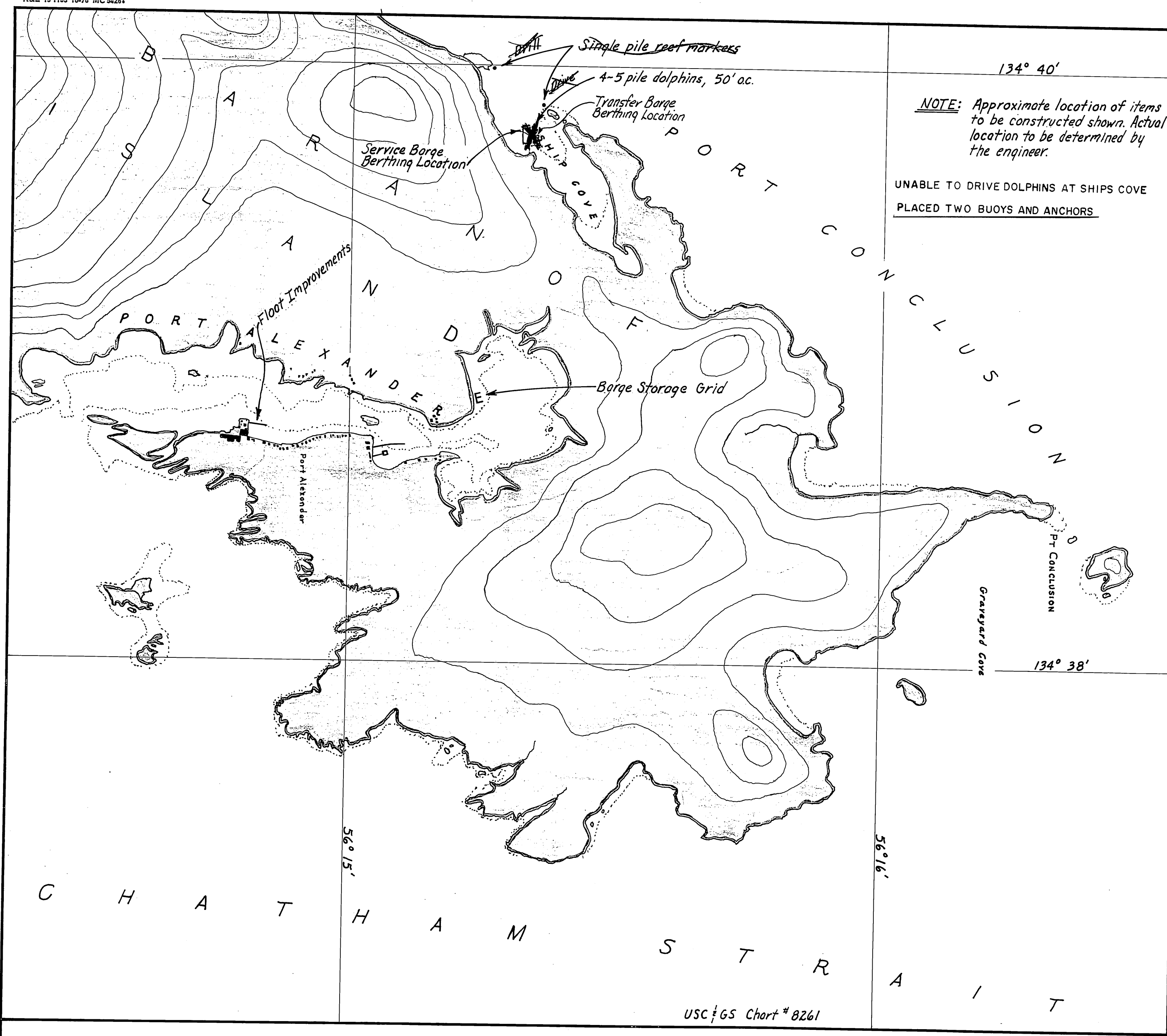
1	Title & Location
2	Float Improvement Layout
3	Storage Grid & Dolphin Details
4	24'x68' Barge Construction Details
5	Typical 10' Float
6	Miscellaneous Construction Details

APPROVED

W. H. Hutter
DIRECTOR

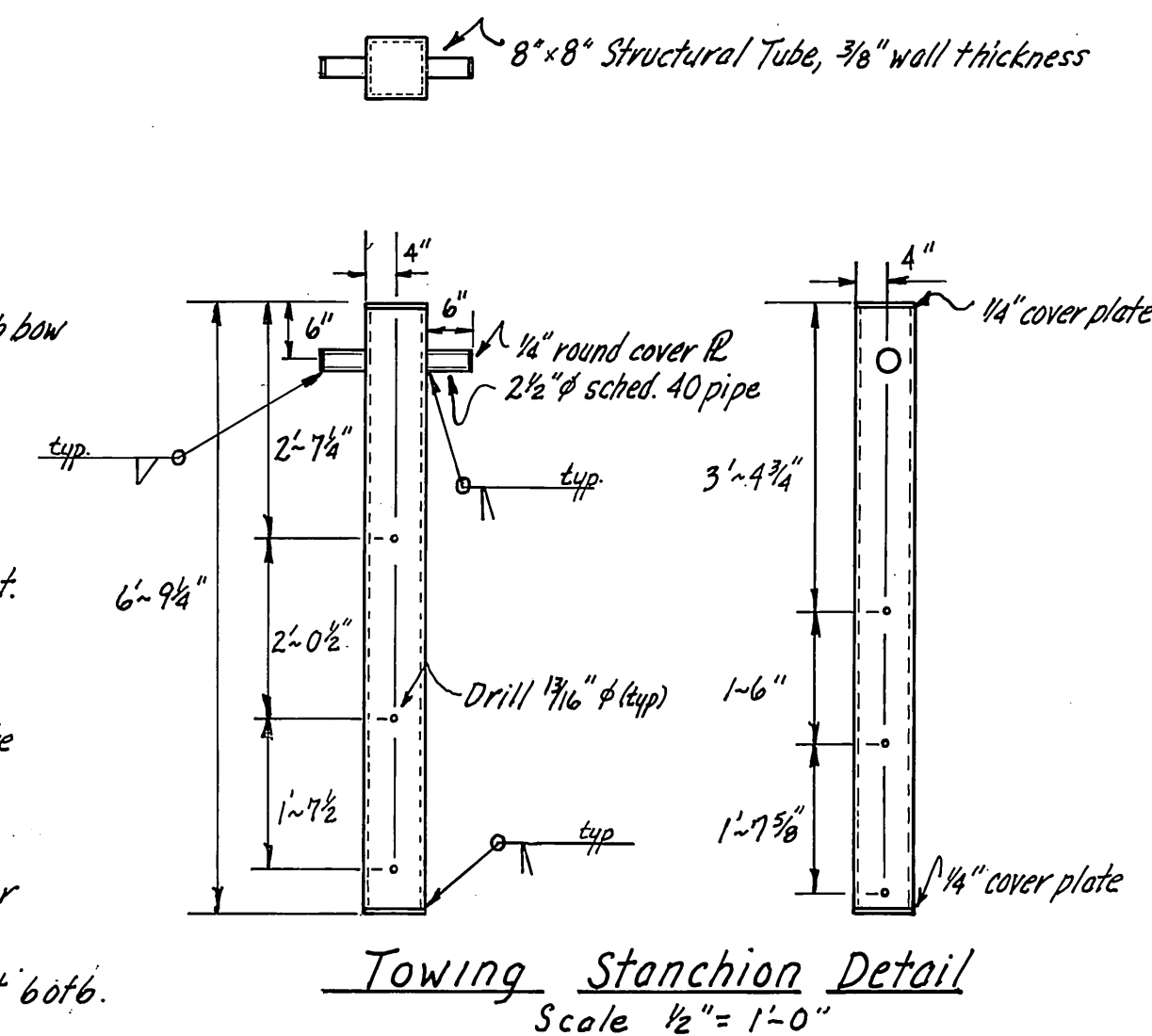
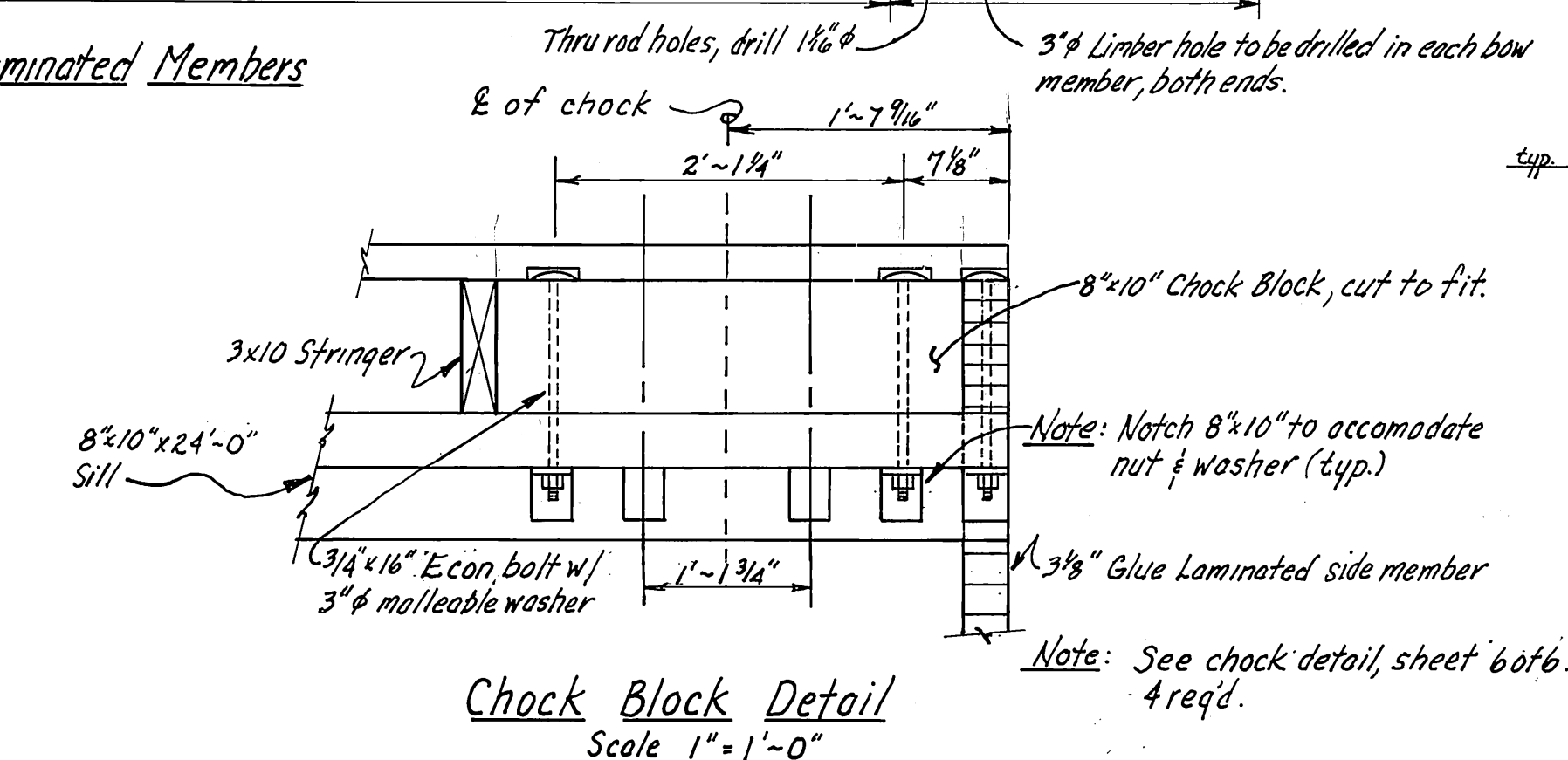
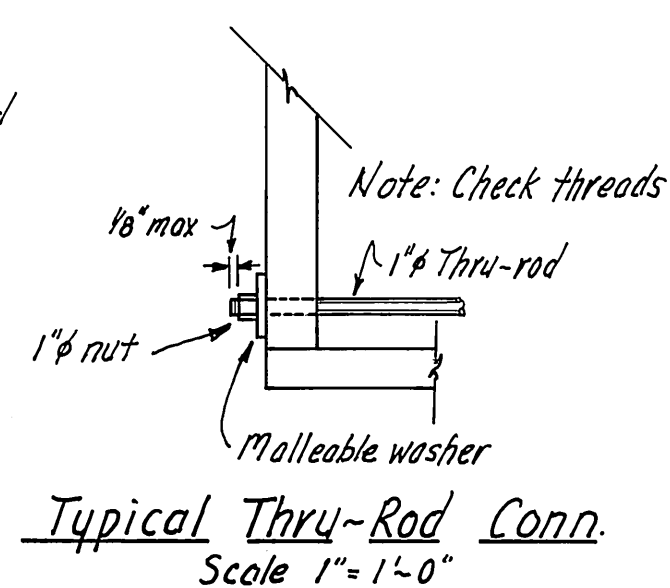
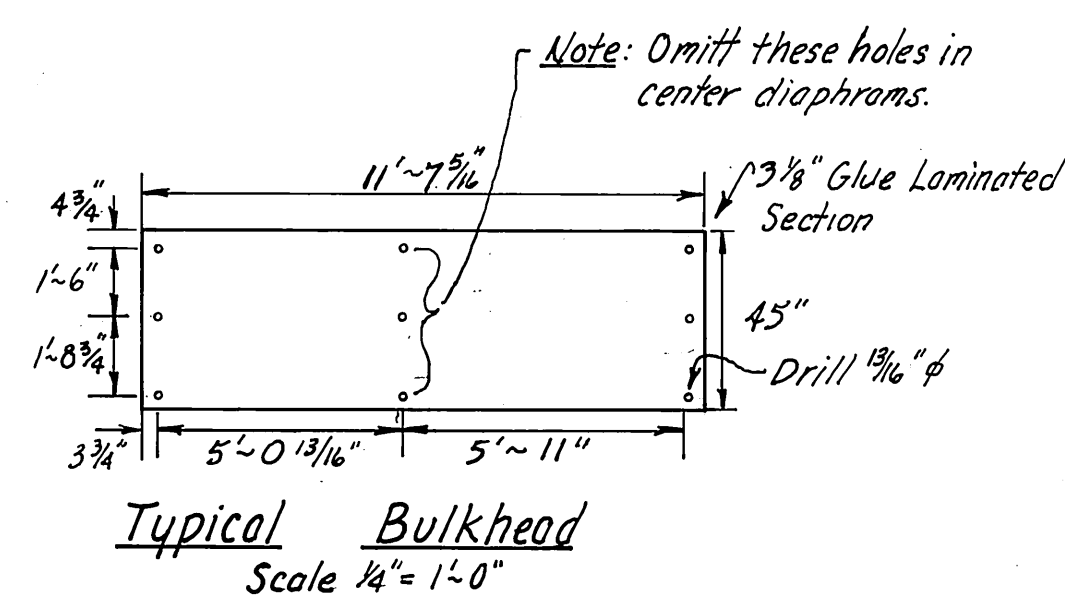
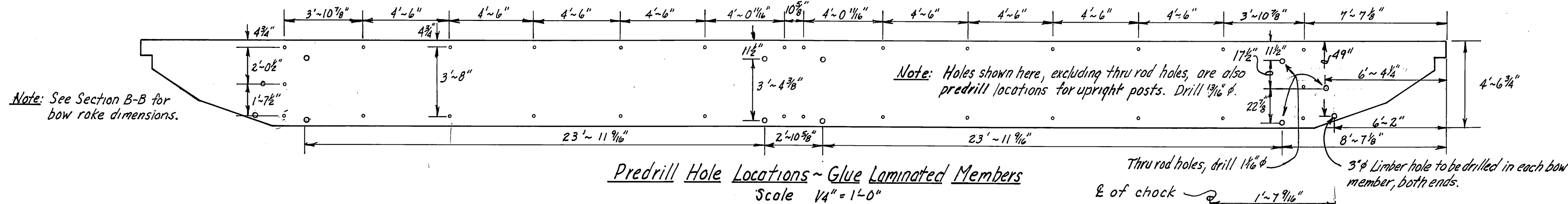
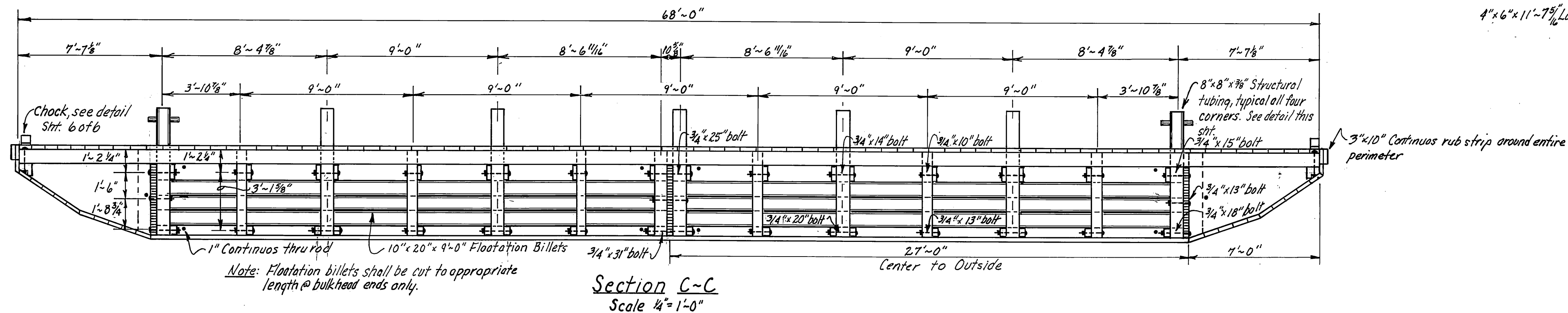
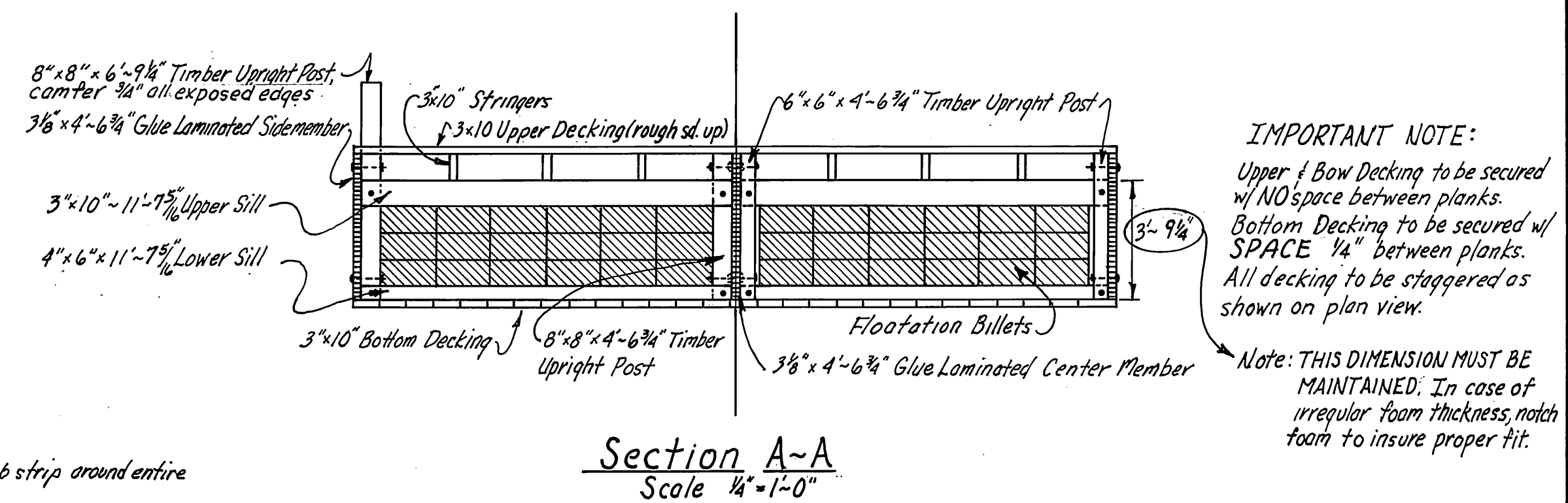
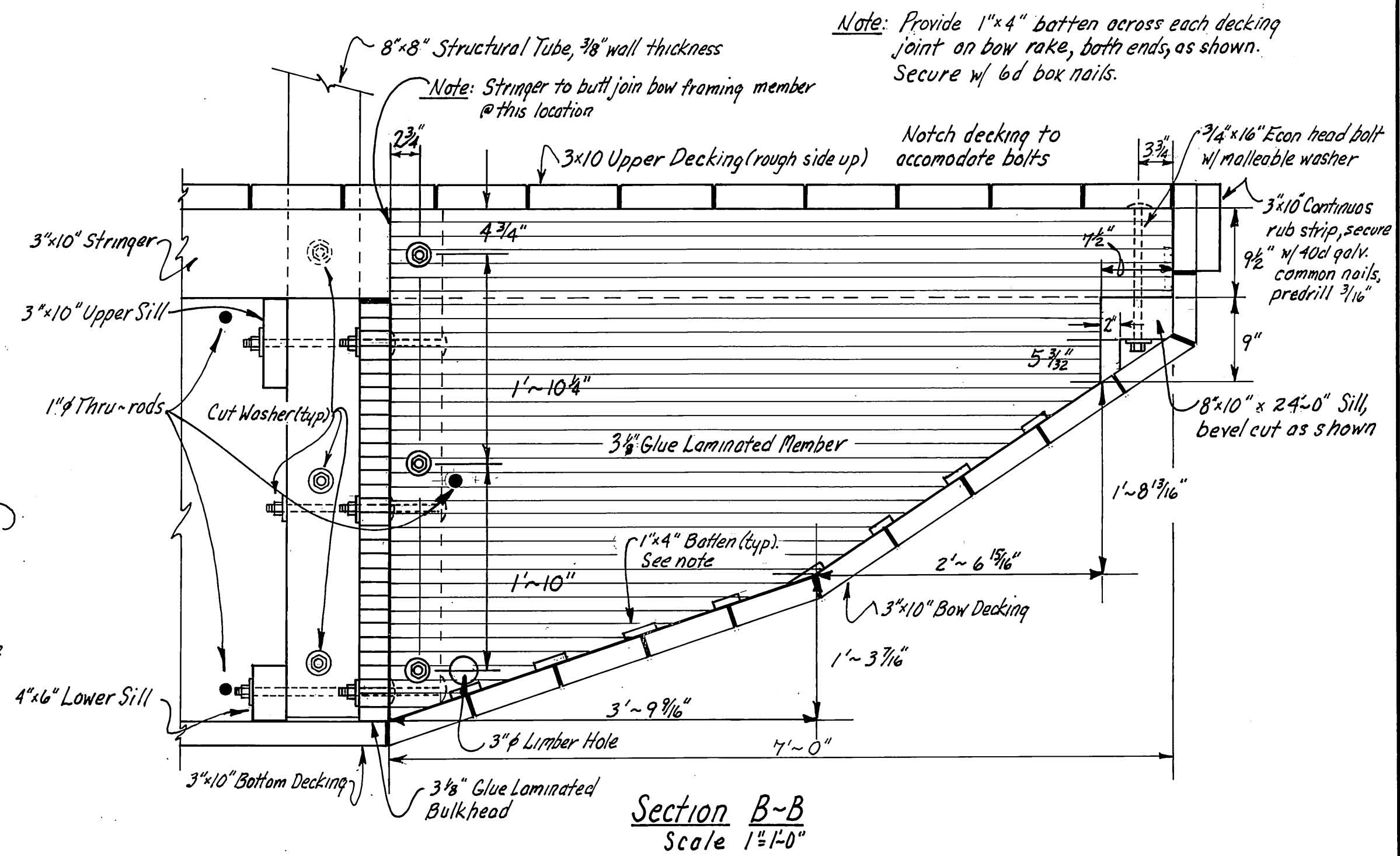
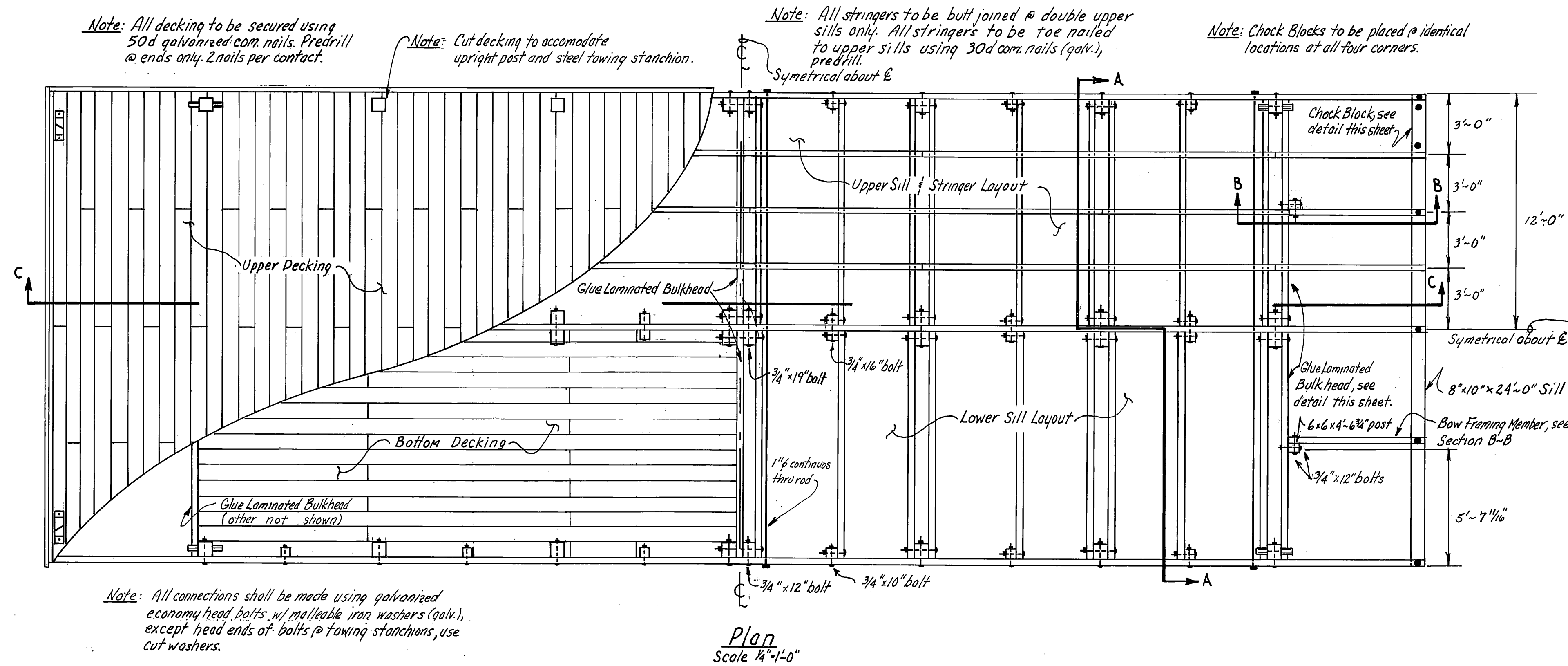
DATE 1/24/77

SHEET 1 OF 6



Note: All piling to be Class A, pressure creosote treated 20lb ret. Min. butt dia. 14", Min. length 75'. All timber to be rough, pressure creosote treated to 12lb ret. All holes & notches made in timber members to be treated w/ hot creosote oil. All hardware to be hot dipped galvanized. A malleable iron washer to be used between all nut & wood surfaces. All bolts to be economy head.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
BARGE STORAGE GRID, BERTHING AREA, & TYPICAL 5 PILE DOLPHIN		
SCALE: As noted	SURVEYED: _____	APPROVED: _____
DESIGNED: _____	DRAWN: JAL	Don Statter DIRECTOR
CHECKED: _____	DATE: _____	
PROJECT NUMBER 874027	SHEET 3 OF 6	



MATERIAL	DRESS	TREATMENT
8x8 Upright Posts	S4S	0.61b. <i>Penta</i>
6x6 Upright Posts	"	"
4x6 Lower Sills	"	"
3x10 Upper Sills	"	"
3x10 Stringers	"	"
3x10 Upper Decking	S1S2E	"
3x10 Bottom Decking	S4S	"
3x10 Bow Decking	"	"
3x10 Continuous Rub Strip	"	"
3/8 Glue Laminated Sections	None	"
8x10x24-0" Sills	S4S	"
8x10 Chock Blocks	"	"

General Notes:

All metal hardware such as nails, bolts, washers, thru-bolts, and including 8x8 Structural Tube Towing Stanchions shall be hot-dipped galvanized in accordance w/ ASTM specifications.

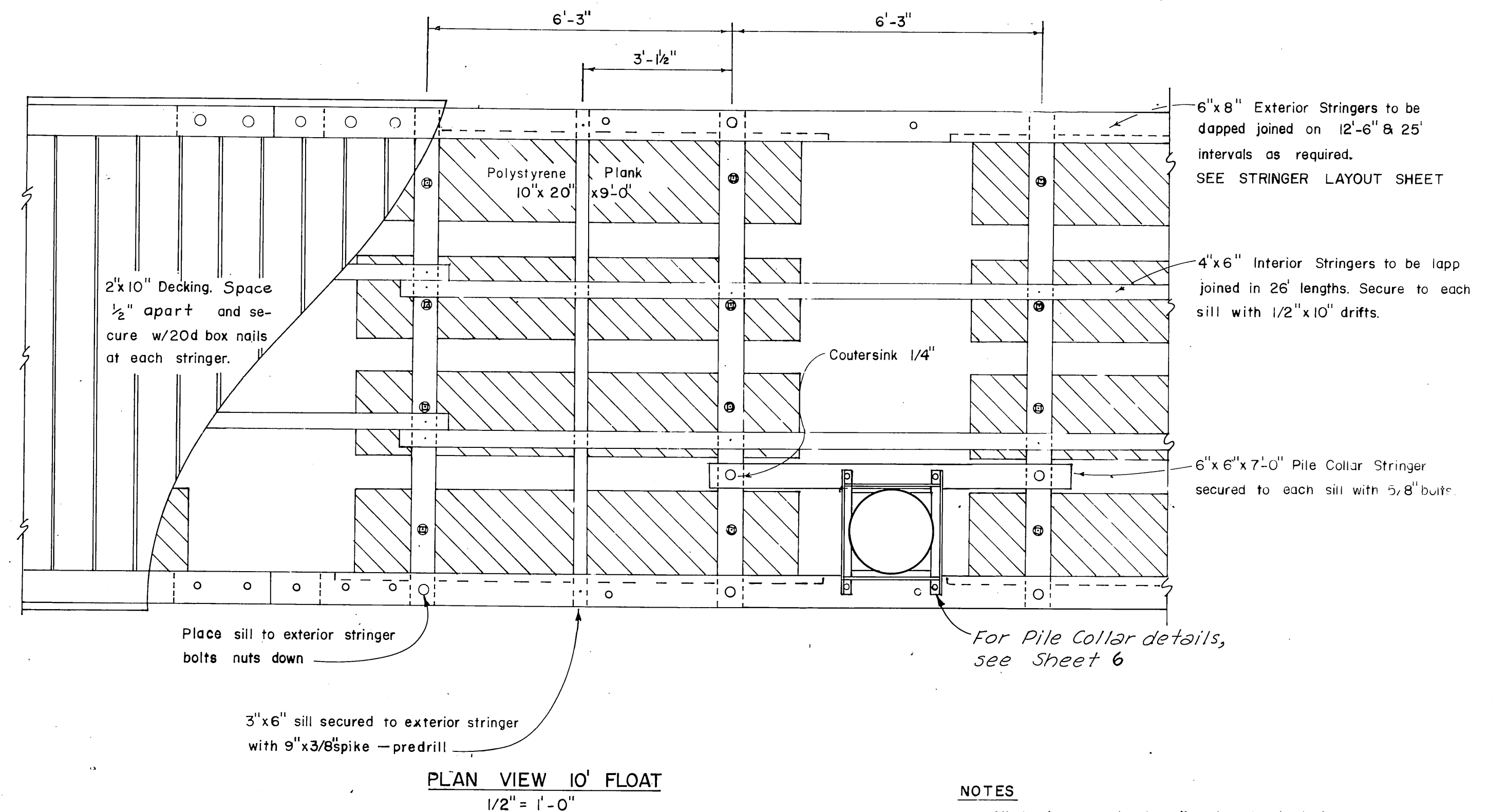
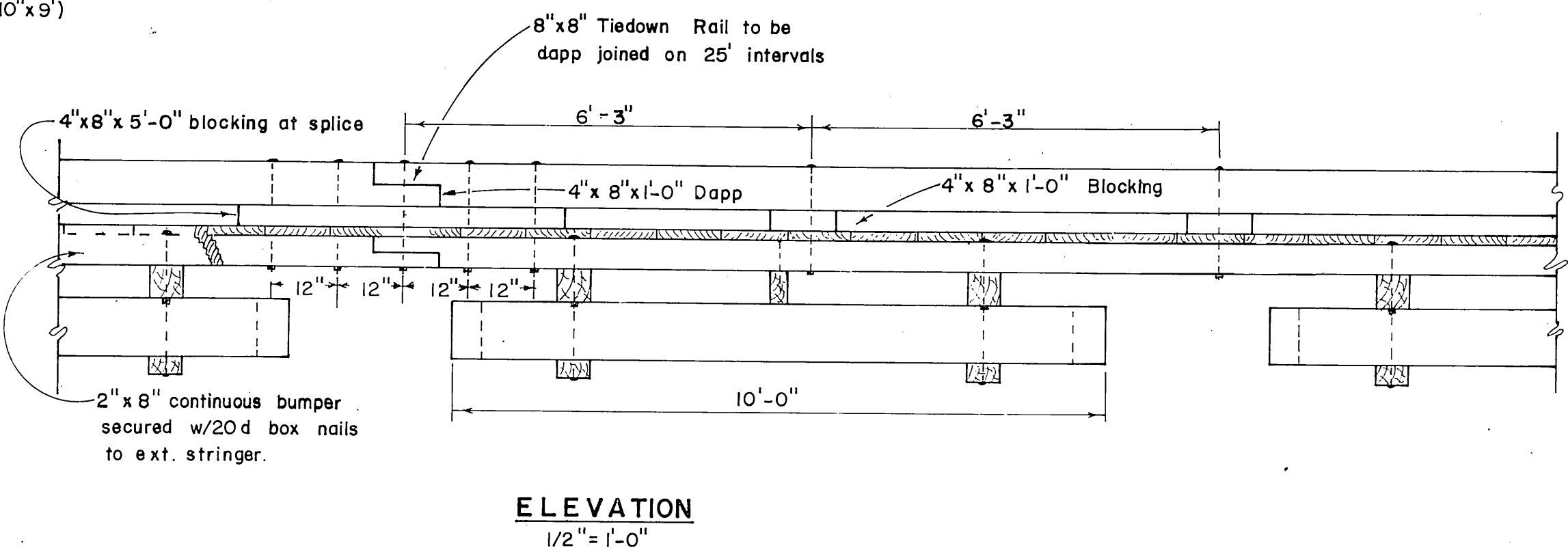
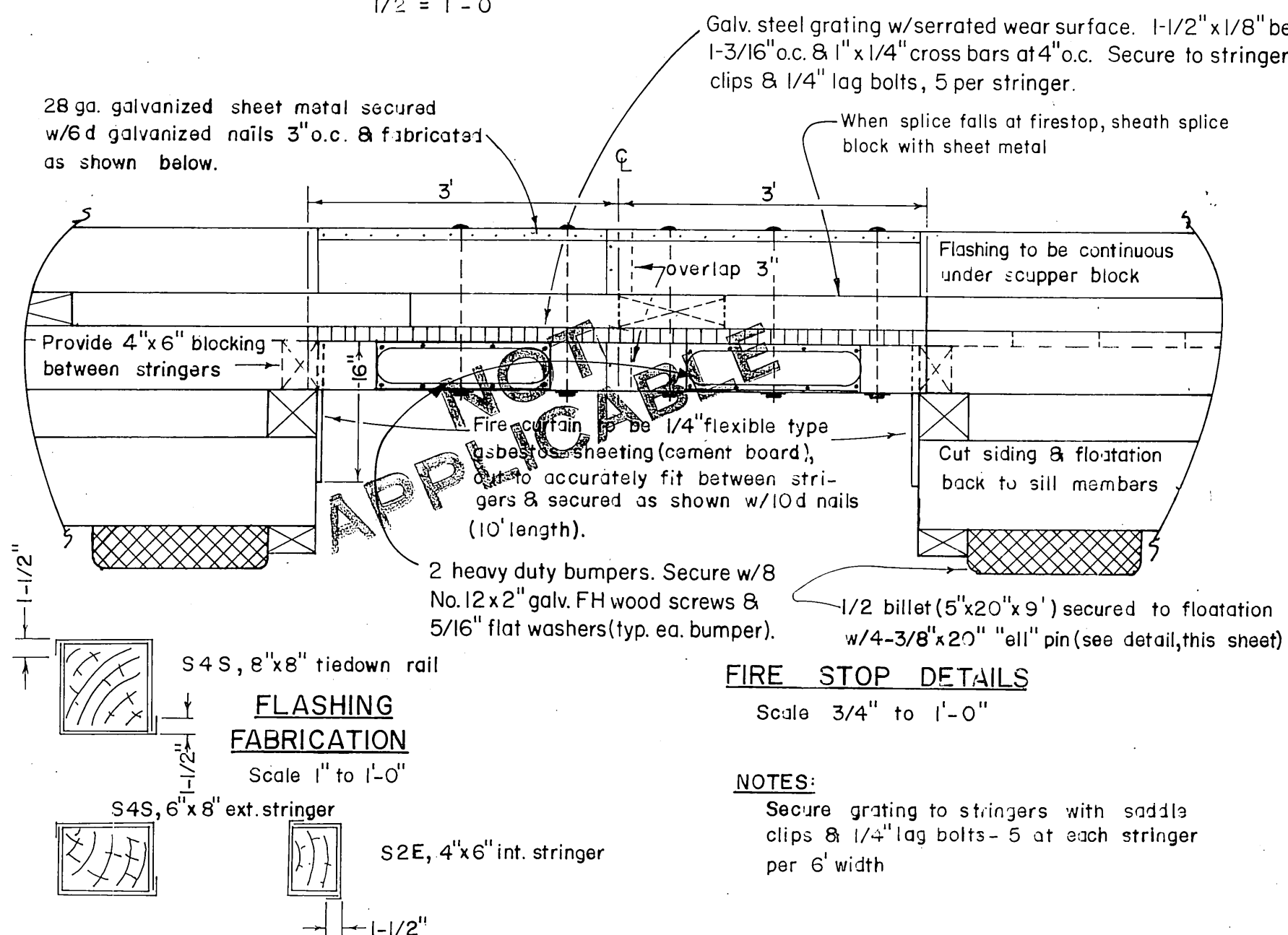
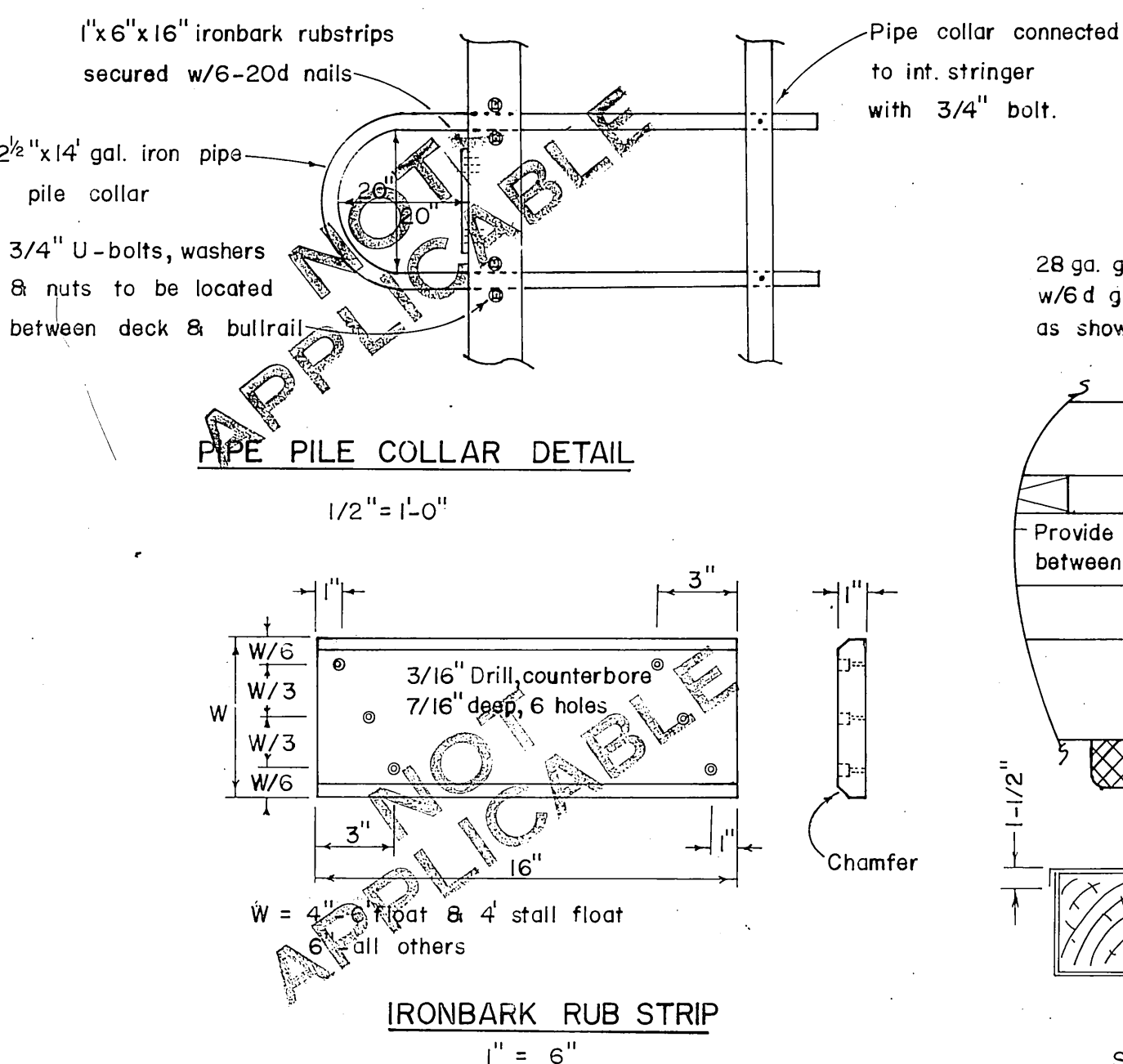
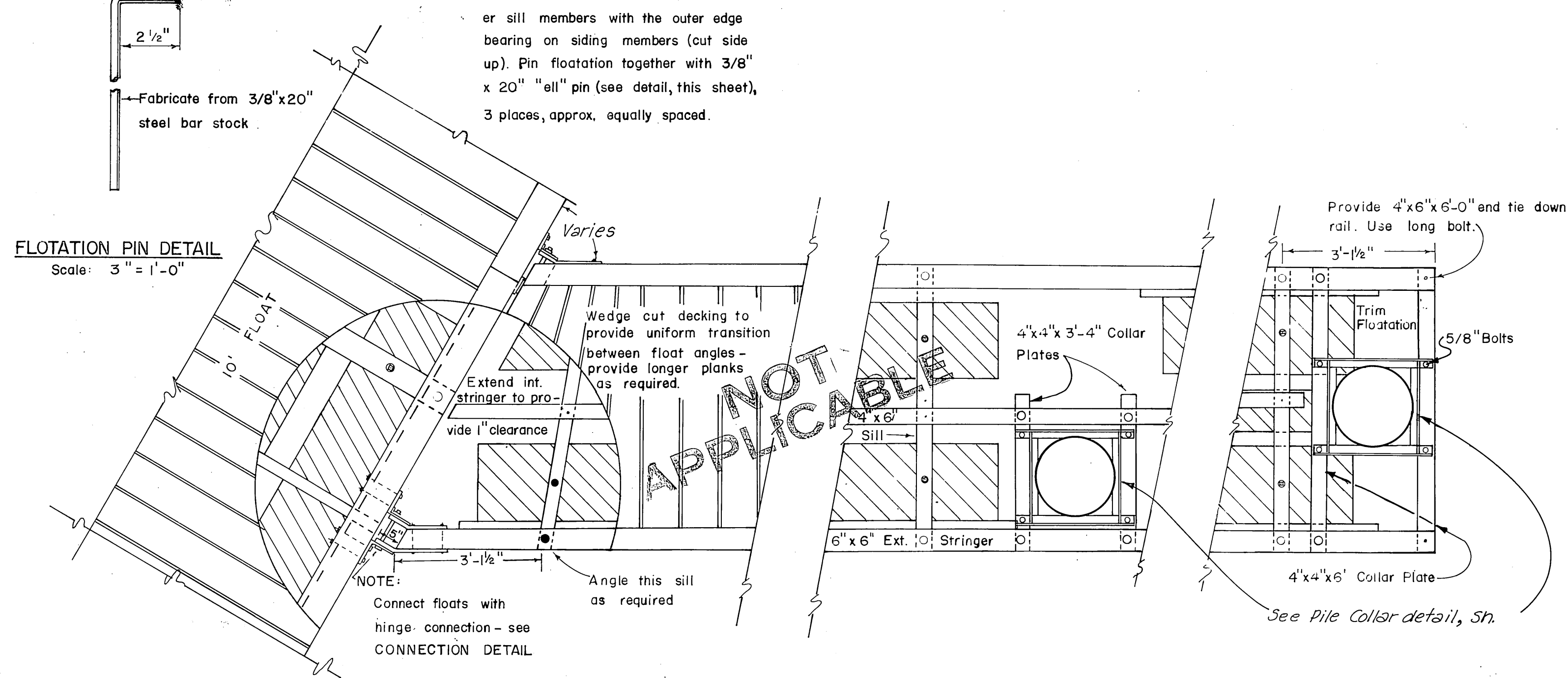
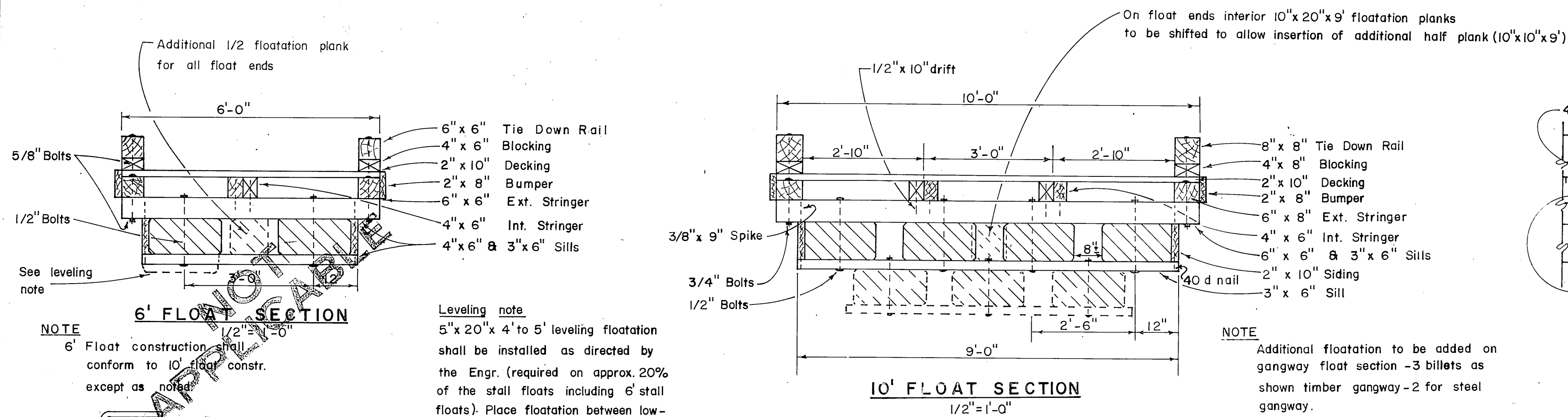
All timber materials shall be treated in accordance with latest applicable AWPA specifications for each respective item.

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DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

Barge Construction Layout
(24' x 68' BARGE)

SCALE <u>As Noted</u>	SURVEYED _____	APPROVED _____
DESIGNED _____	DRAWN <u>JAL</u>	<u>Don Statter</u> DIRECTOR
CHECKED _____	DATE <u>12/23/76</u>	
PROJECT NUMBR <u>874027</u>	SHEET <u>4</u> OF <u>6</u>	



* Exact width to conform to width of floatation material

MATERIALS		
ITEM	DRESSING	TREATMENT
3"x6"-4"x6" & 6"x6" upper sill	S-1-E 1/8" off	10 lbs. ret. (LP-55)
2"x10" Siding	2"x10 1/2"	" " "
3"x6" Lower Sill	Rough	" " "
4"x4" & 3"x6" Collar Plates	Rough	" " "
4"x6" Collar Members	S-2-E	" " "
4"x6" Interior Stringers	" " "	8 lbs. ret. (LP-5)
6"x6" & 6"x8" Ext. Stringers	S-4-S	" " "
2"x8" Bumpers	" " "	0.5 lb. Penta
6"x6" Collar Stringers	" " "	8 lb. ret. (LP-5)
2"x10" Decking	Milled	0.5 lb. Penta
4"x6" & 4"x8" Blocking	S-4-S	" " "
6"x6" & 8"x8" Rail	" " "	" " "

All material to be Dense No.1 grade Douglas Fir
 All piling will be Class A creosoted to 20 lbs. retention (MP-2)

PRE-DRILLED BOLT HOLES

COLLAR MEMBERS - all holes
SILLS - holes for floatation plank bolts
STRINGERS - 1. holes for stringer to sill bolts

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

FIELD DRILLED BOLT HOLES

SILLS - 1. 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 - 1. 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).

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

TYPICAL FLOATS

SCALE: As shown	SURVEYED: —	APPROVED: —
DESIGNED: DW/DS	DRAWN: MH/JET	DON Statter
CHECKED: DS	DATE: 4-68	DIRECTOR
PROJECT NUMBER: 377136	SHEET: 5 OF 6	

1	Changed treatment for Bumpers, Decking, Blocking & Tie-down rails to 0.5 lb. Penta. Spaced deck planks 1/2"	7-29-71	JET
No.	Revision	Date	By

