

ELEVATION

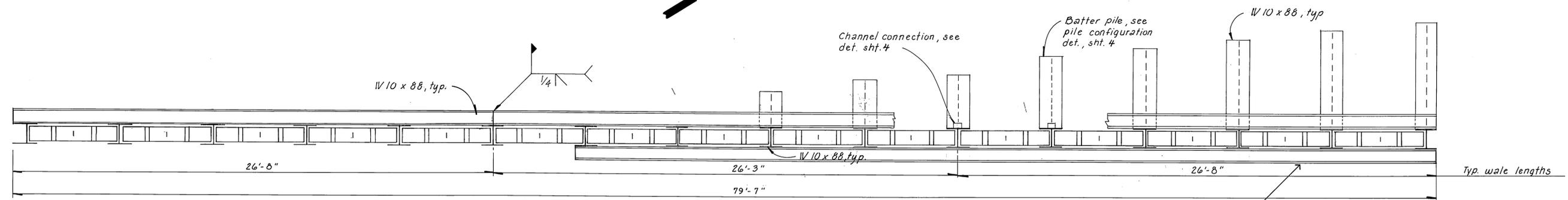
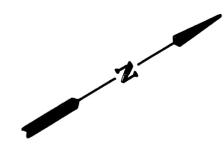
Note: Place concrete beams between flanges of vertical H piles. Level rock surface with jack hammer so that at least 2/3 of bottom of lowest beam is supported by level ground. Also place beams so upper-most surface of top beam is @ El. +22.0.

Cast in place grade beams may be used instead of leveling rock surface. All overburden and loose material shall be removed prior to placing concrete or concrete beams. Contractor to submit proposal to the Engineer for review and approval.

Recorded number concrete beams at each location total = 157 conc. beams.
Note: beams in with lugs down rather than up as shown on plans. Contractor chose cast in place grade beams; heavy line shows elevation.

Note: W10x88 vertical piles chamfered to fit down 15" ϕ drill hole.

Note: Field observation indicates exposed rock above the -2.0' elevation. Contractor to field verify rock profile prior to ordering materials.

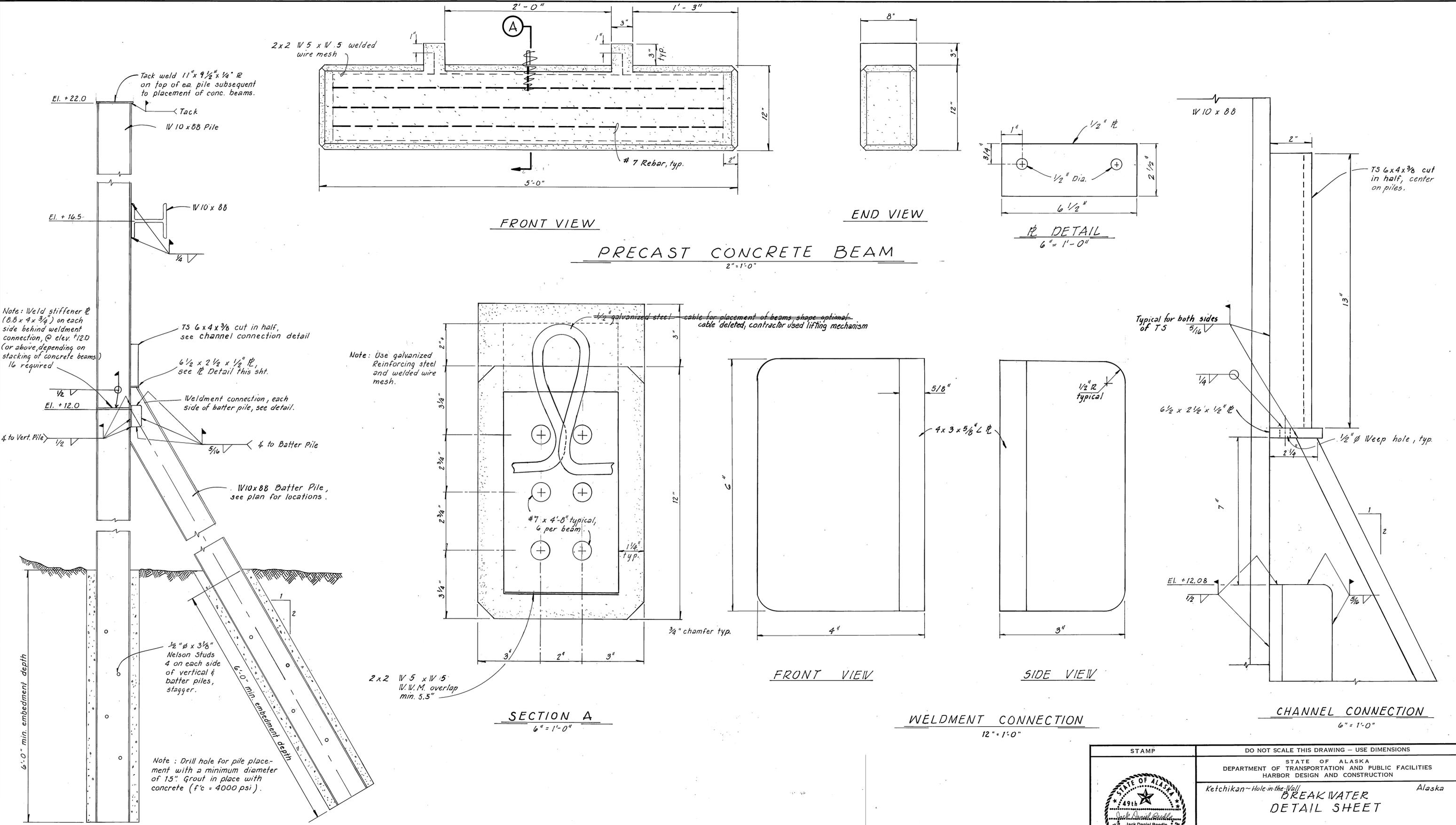


PLAN

Note: Field weld wale to each vertical pile @ top & bottom, see pile configuration det. sht. 4
Tack weld 1/2" x 1/4" R to top of ea. vert. pile subsequent to placement of conc. beams.

Note: Field welded wale top and sides leaving bottom open.

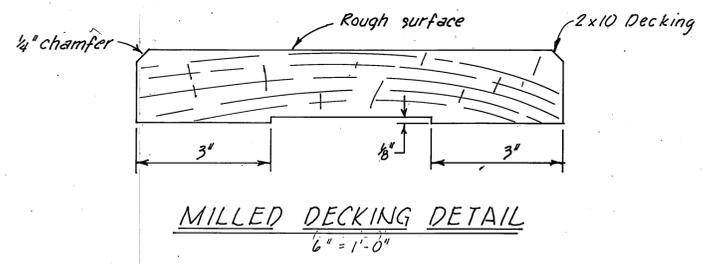
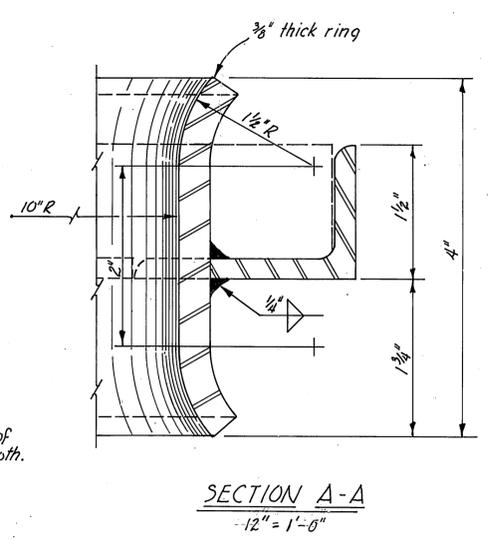
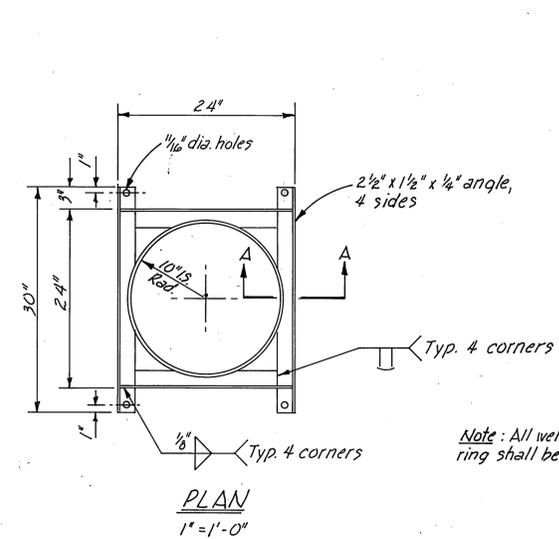
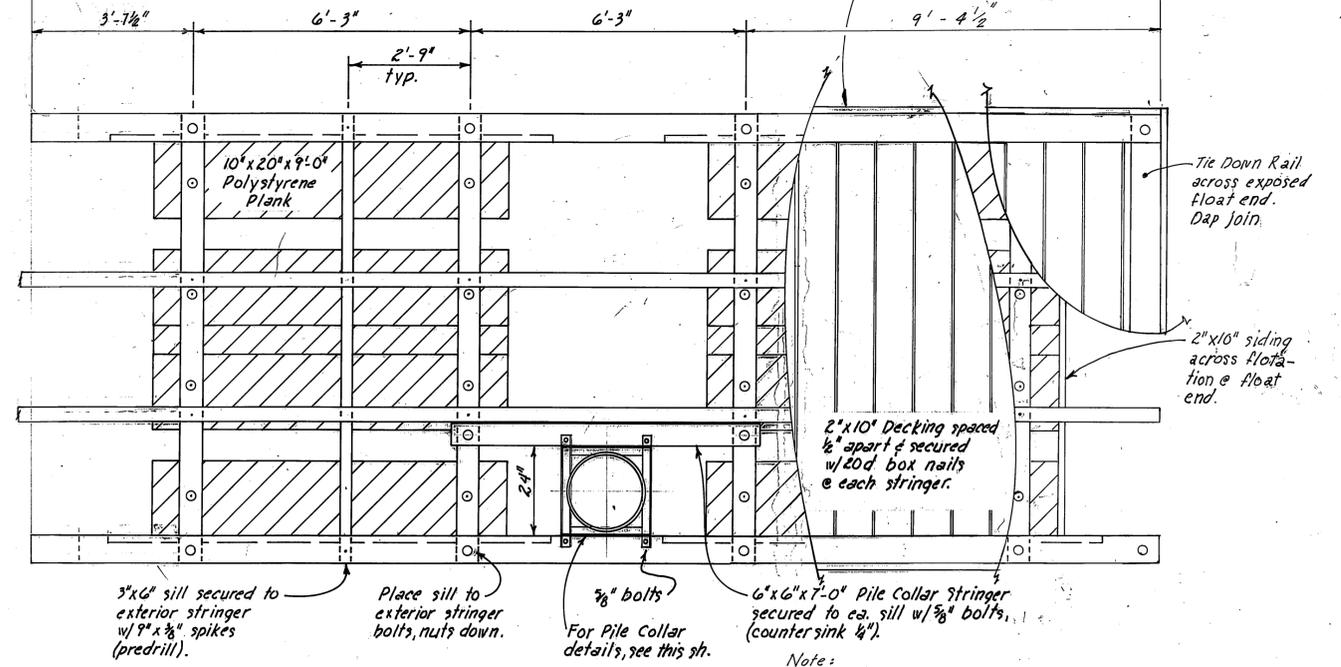
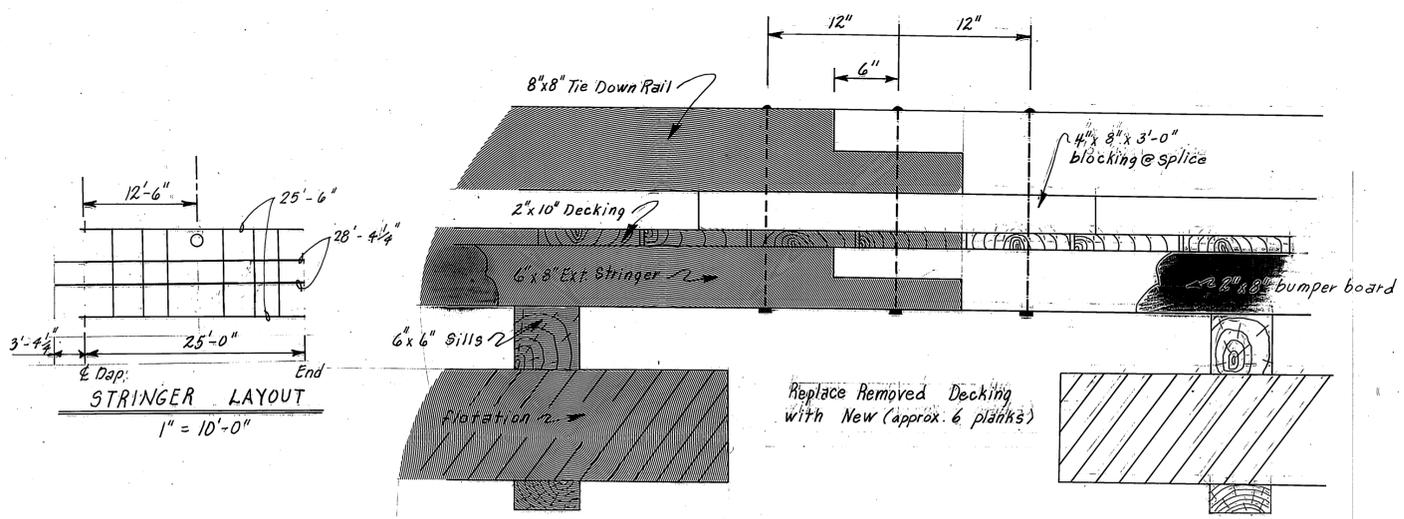
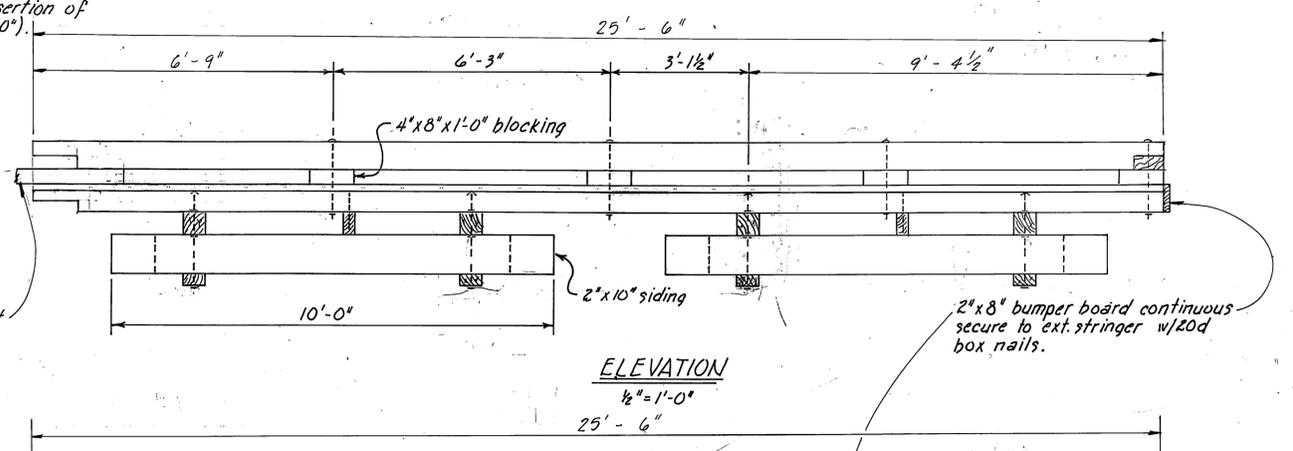
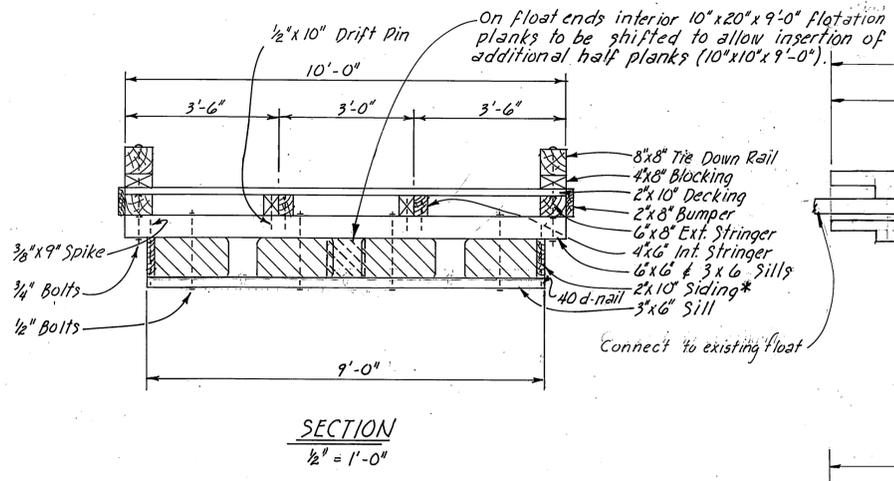
STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION Ketchikan - Hole in the Wall Alaska	
BREAKWATER PLAN & ELEVATION		
SCALE: NTS DESIGNED: RAM CHECKED:	SURVEYED: RAM/TJS DRAWN: RAM/TJS DATE: 6-82	APPROVED: Robert P. Beck James A. Lowell
PROJECT NUMBER: K-31113	SHEET 3 OF 6	



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		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Ketchikan - Hole in the Wall BREAK WATER DETAIL SHEET Alaska	
SCALE <i>As Noted</i>	SURVEYED	APPROVED <i>Robert P. Beck</i>	
DESIGNED <i>RAM</i>	DRAWN <i>RAM/TS</i>	James A. Lowell	
CHECKED	DATE <i>6-82</i>		
PROJECT NUMBER <i>K-31113</i>	SHEET <i>4</i> OF <i>6</i>		

MATERIALS		
ITEM	DRESSING	TREATMENT
3"x6" & 6"x6" Upper Sill	S-4-S	Creosote
2"x10" Siding	1 1/2"x10 1/2" Actual size	"
5"x6" & 2"x6" Lower Sill	S-4-S	"
4"x6" Interior Stringers	S-4-S	"
6"x8" Exterior Stringers	S-4-S	"
2"x8" Bumpers	S-4-S	Penta, in heavy oil
6"x6" Collar Stringers	S-4-S	Creosote
2"x10" Decking	Milled 5-1-5-2-E	Penta, in light oil
4"x8" Blocking	S-4-S	"
8"x8" Tie Down Rail	S-4-S	"
		(See Spec's)

* To be cut from 2x12 5-4-5, to match flotation used.



PREDRILLED BOLT HOLES
 Collar Members - all holes
 Sills - Holes for flotation plank bolts
 Stringers - holes for stringer to sill bolts
 Tie Down Rail and Rail Blocking - all holes

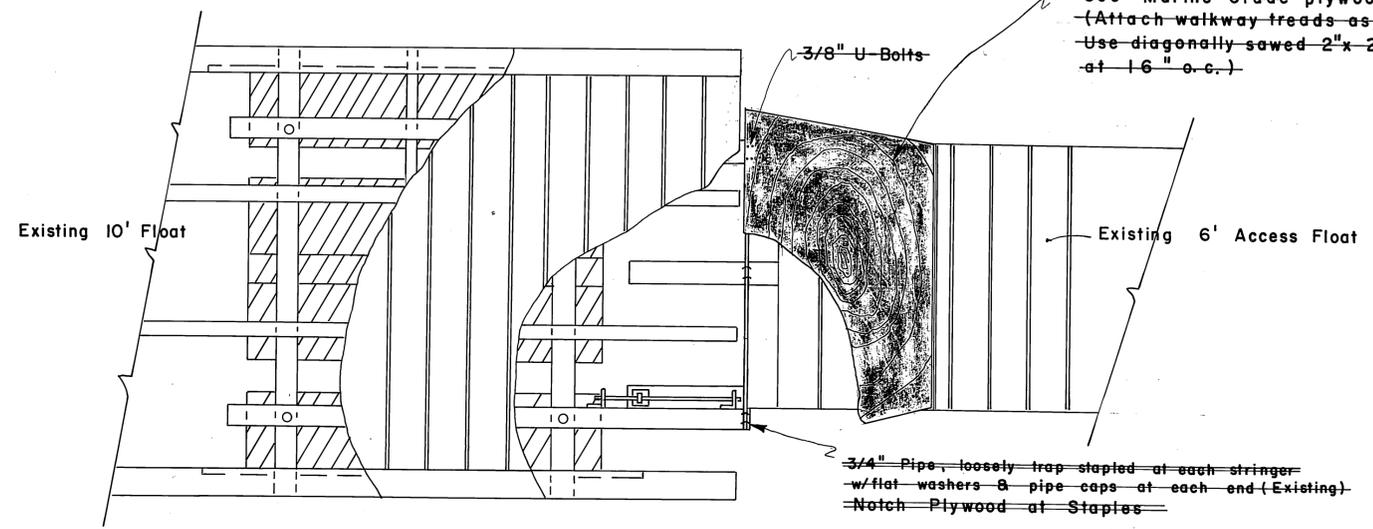
FIELD DRILLED BOLT HOLES
 Pile Collar Int. & Ext. Stringers - all holes

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	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION Ketchikan - Hole in the Wall Alaska TYPICAL 10'-0" FLOAT	
SCALE: As Noted DESIGNED: [Signature] CHECKED: [Signature]	SURVEYED: [Signature] DATE: Jan. 1979 PROJECT NUMBER: K-3113	APPROVED: Robert P. Beck CHIEF OF DESIGN: [Signature] SHEET 5 OF 6

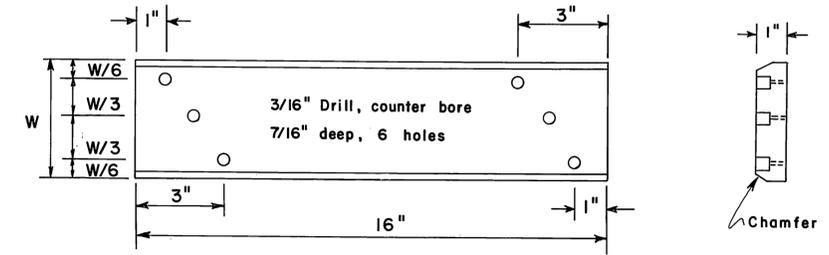
3/4" Plywood ramp replaced with ramp made from salvaged grating from fire-stop on old 6' timber float. Existing ramp made-up of 1 1/4" Plywood and badly weathered; 3/4" plywood won't stand up.

Plywood Ramp to be replaced.
 3/4" thick x 4' (taper from 7'-4" to 6'-0")
 Use Marine Grade plywood - Penta treated.
 (Attach walkway treads as non-skid treatment.
 Use diagonally sawed 2" x 2" nailed
 at 16" o.c.)

W = 4" - 6' Float
 W = 6" - All Others

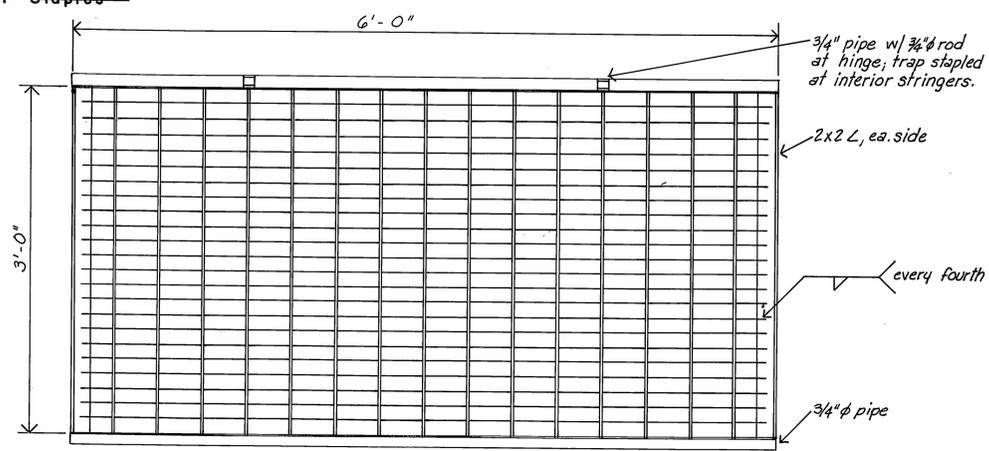


RAMP DETAIL
 1/2" = 1'-0"

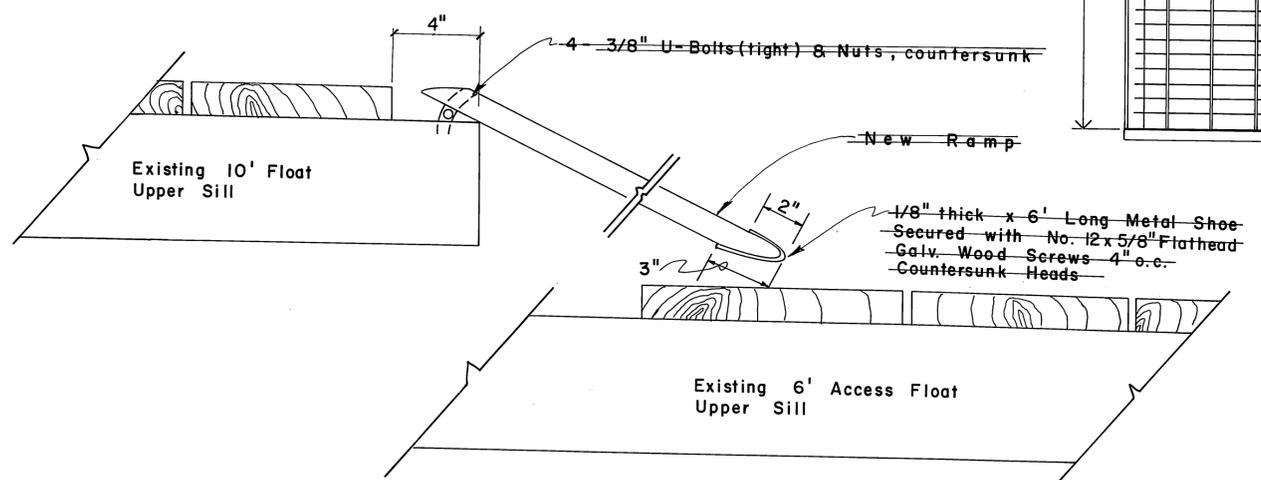


INTERIOR PILE IRONBARK RUB STRIP
 1" = 3"

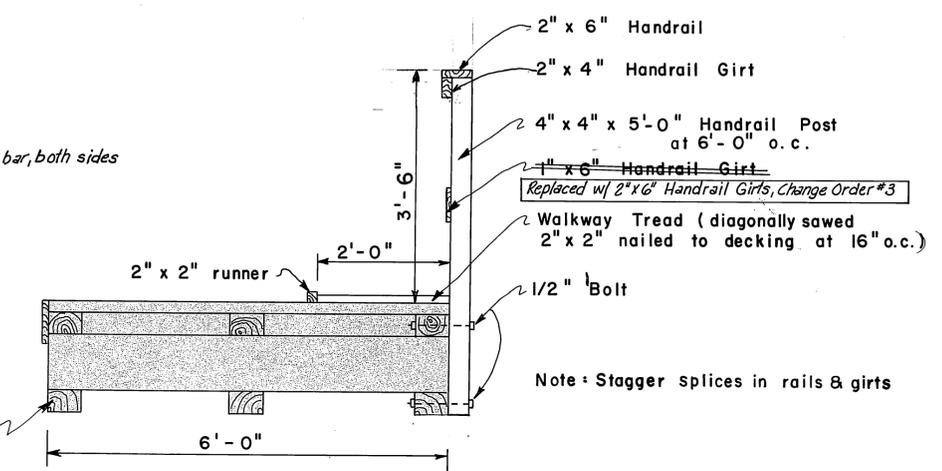
3/4" Pipe, loosely trap stapled at each stringer w/ flat washers & pipe caps at each end (Existing).
 Notch Plywood at Staples



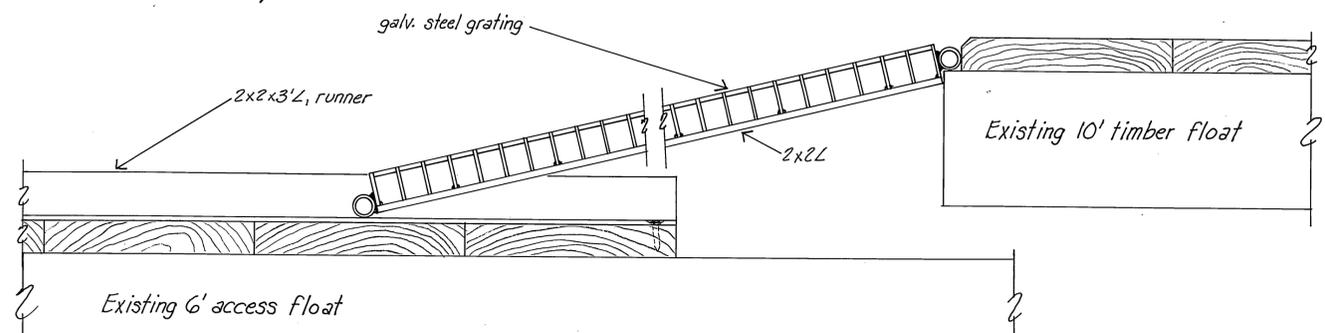
RAMP DETAIL - AS BUILT



RAMP SECTION
 3" = 1'-0"

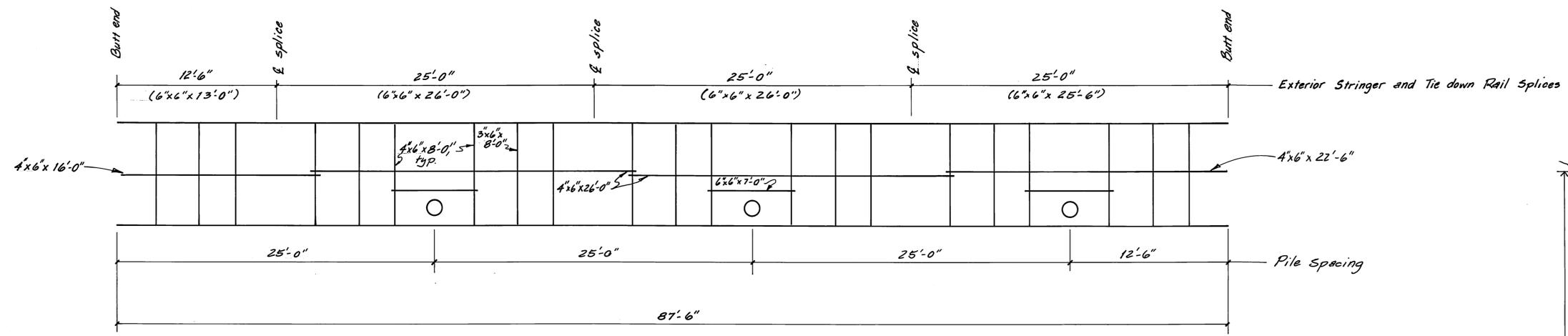


ACCESS FLOAT DETAIL
 3/4" = 1'-0"

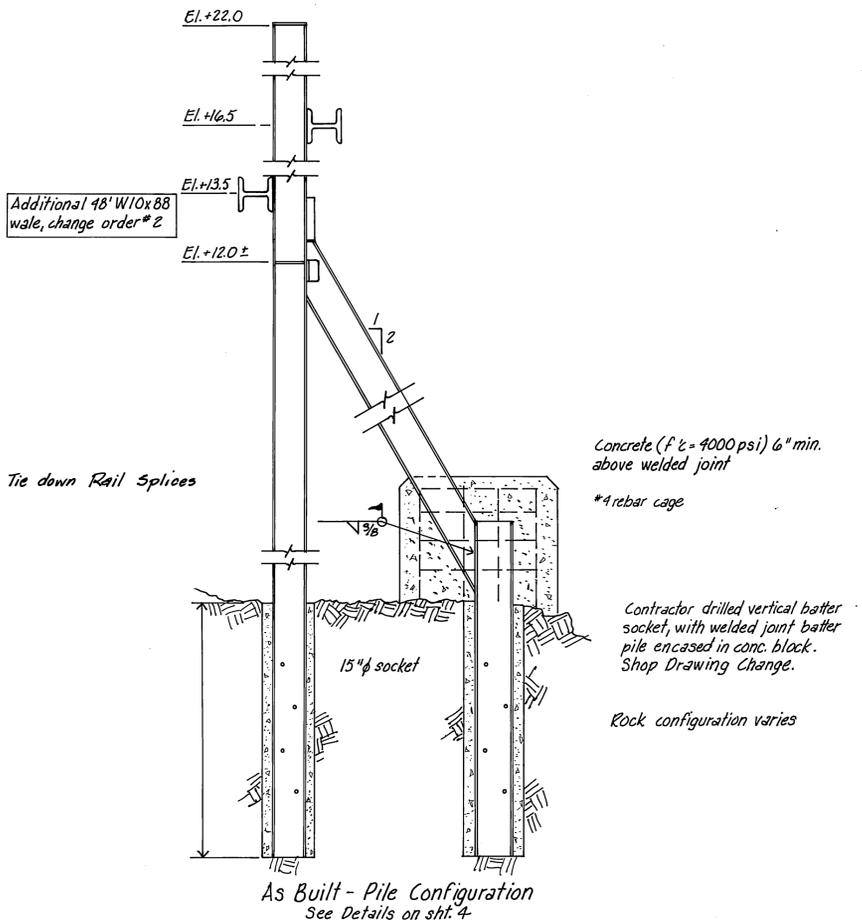


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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION			
Ketchikan - Hole in the Wall		Alaska	
MISCELLANEOUS CONSTRUCTION AND REPAIR DETAILS			
SCALE: _____	SURVEYED: _____	APPROVED: <u>Robert P. Beck</u>	
DESIGNED: <u>[Signature]</u>	DATE: _____	DRAWN: <u>[Signature]</u>	
CHECKED: _____	DATE: _____	PROJECT NUMBER: <u>4-3113</u>	
PROJECT NUMBER: <u>4-3113</u>		SHEET <u>6</u> OF <u>6</u>	

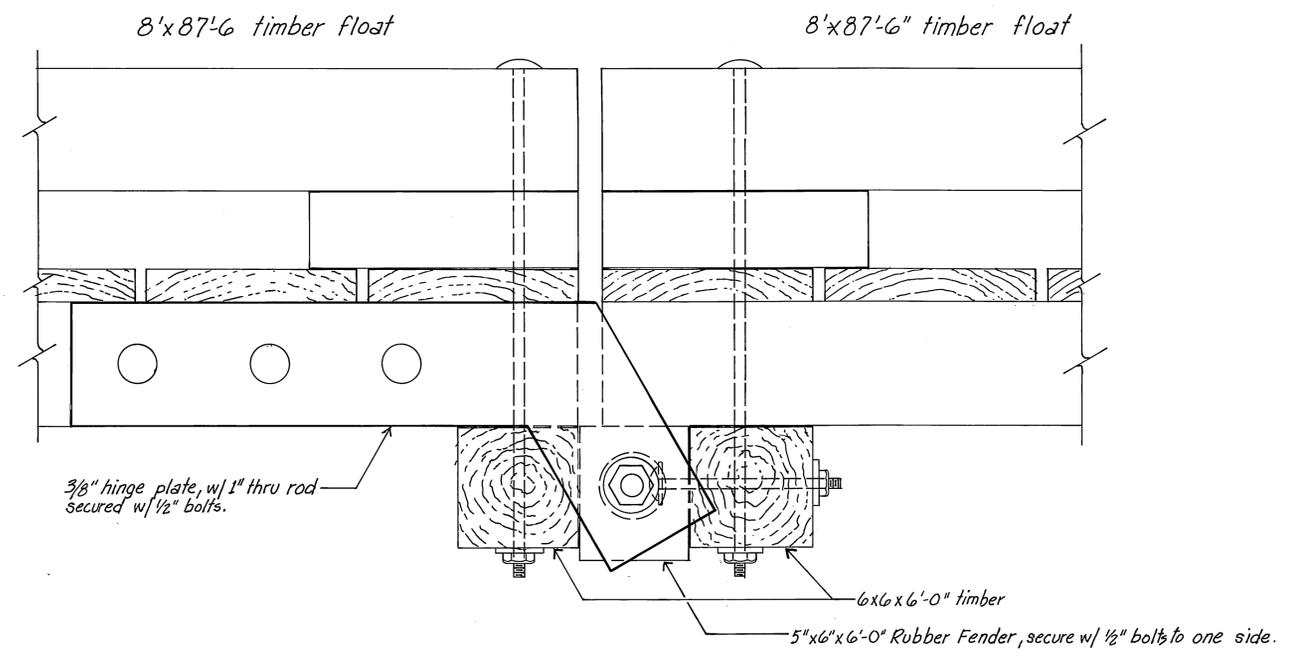




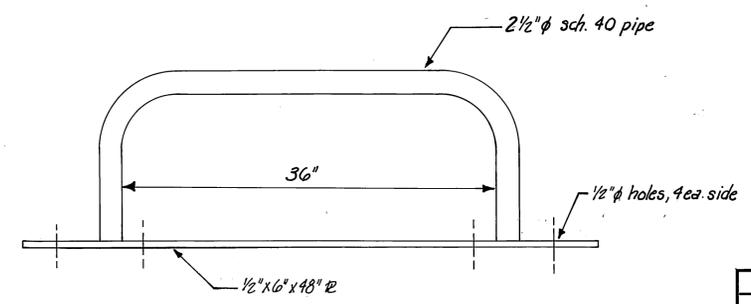
STRINGER LAYOUT (2 REQ'D)
1" = 5'-0"



- NOTES:
1. Field trim ends as directed by Engineer.
 2. Hinge connection as approved by Engineer.
 3. Flotation billets (42 total) to be provided by state.



DETAIL - RUBBER HINGE CONNECTION
(float details see sheet, 6a)



PIPE PILE COLLAR - Electrical Pole

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION			
Ketchikan, Hole-In-The-Wall		Alaska	
8' FLOAT CHANGE ORDER #1			
SCALE <u>As Noted</u>	SURVEYED _____	APPROVED _____	
DESIGNED _____	DRAWN <u>DB</u>	_____	
CHECKED <u>JDB</u>	DATE <u>3-83</u>	_____	
PROJECT NUMBER <u>K-31113</u>	SHEET <u>6b</u> OF <u>6</u>		