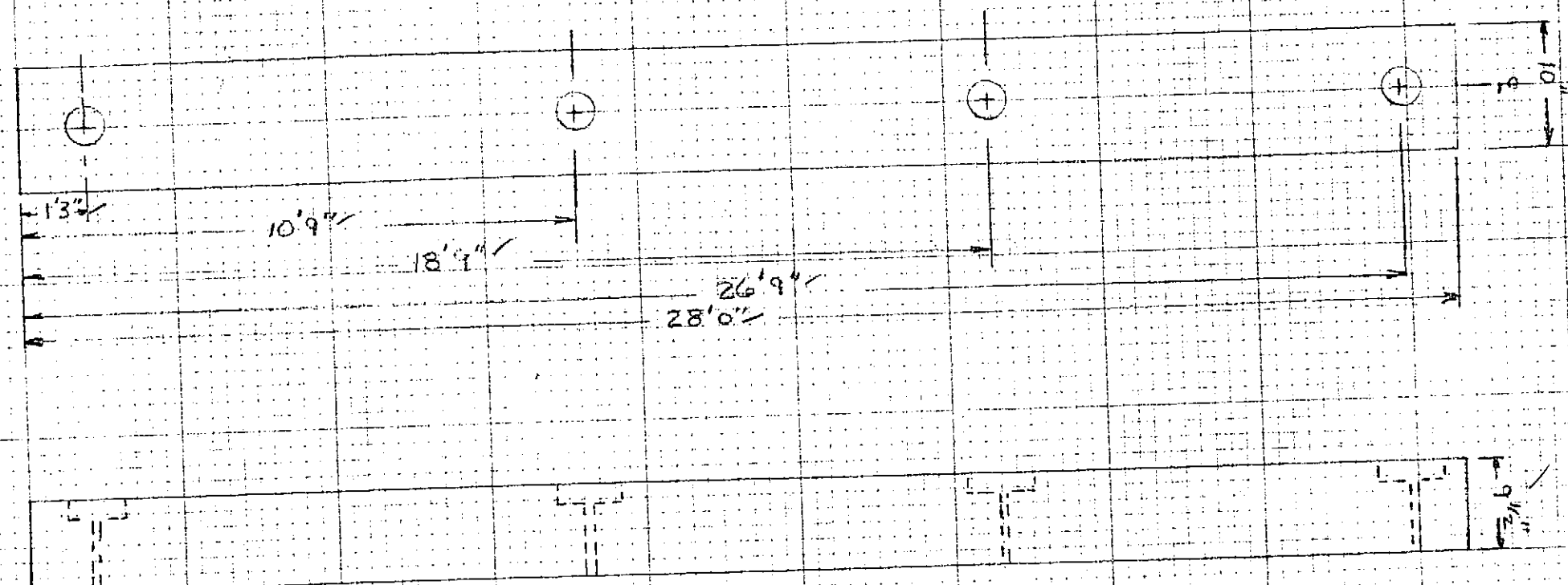
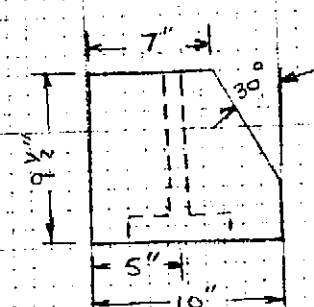


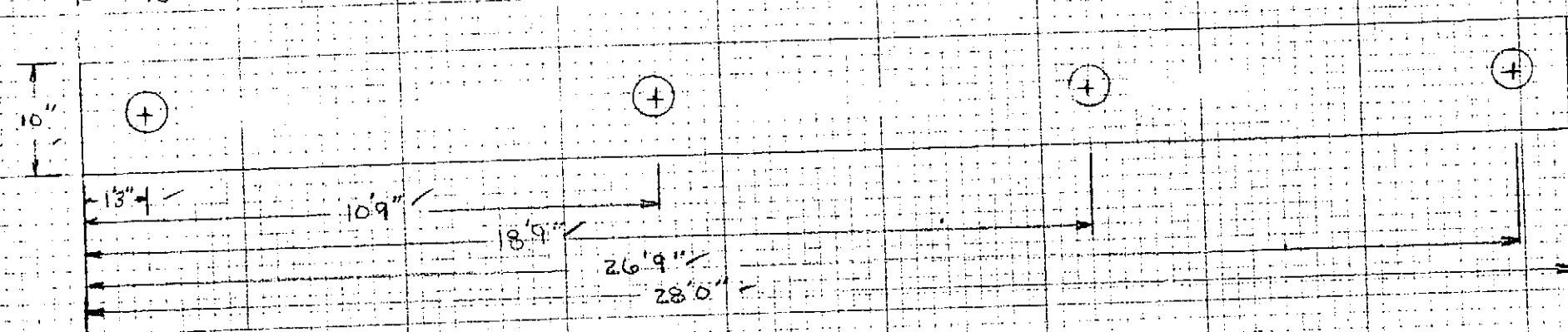
Make (17) Mark E1



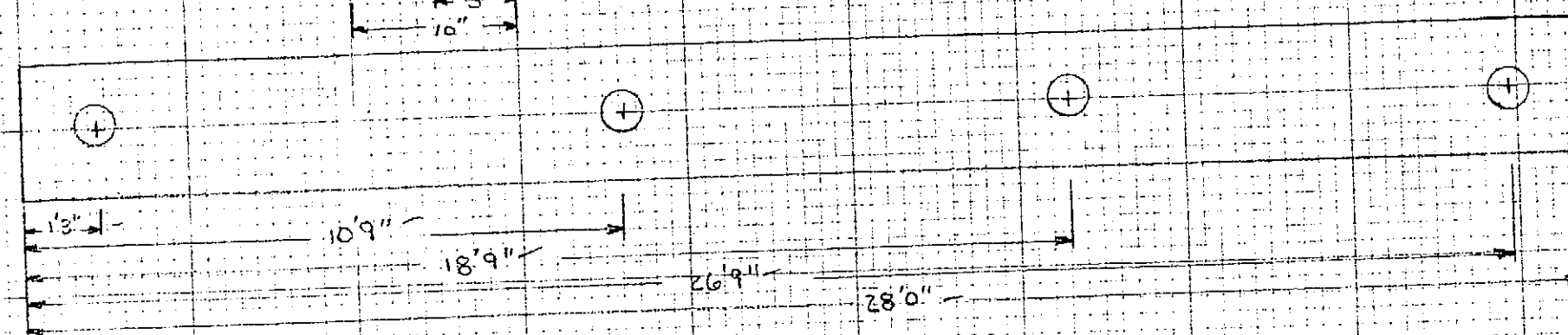
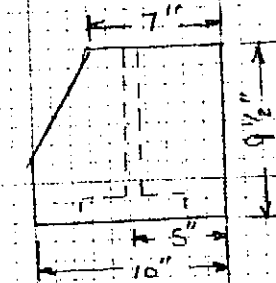
Make (1) E2



All Holes 1 1/16" ϕ with 4" counter bore x 2" deep



Make (1) E3



W.S. Construction Inc.
Dolphin Fender Assembly
N.T.S.
Mail - EKKI Per Silla Dolphin Plans Spec.
4/11/83
Sheet 1/1

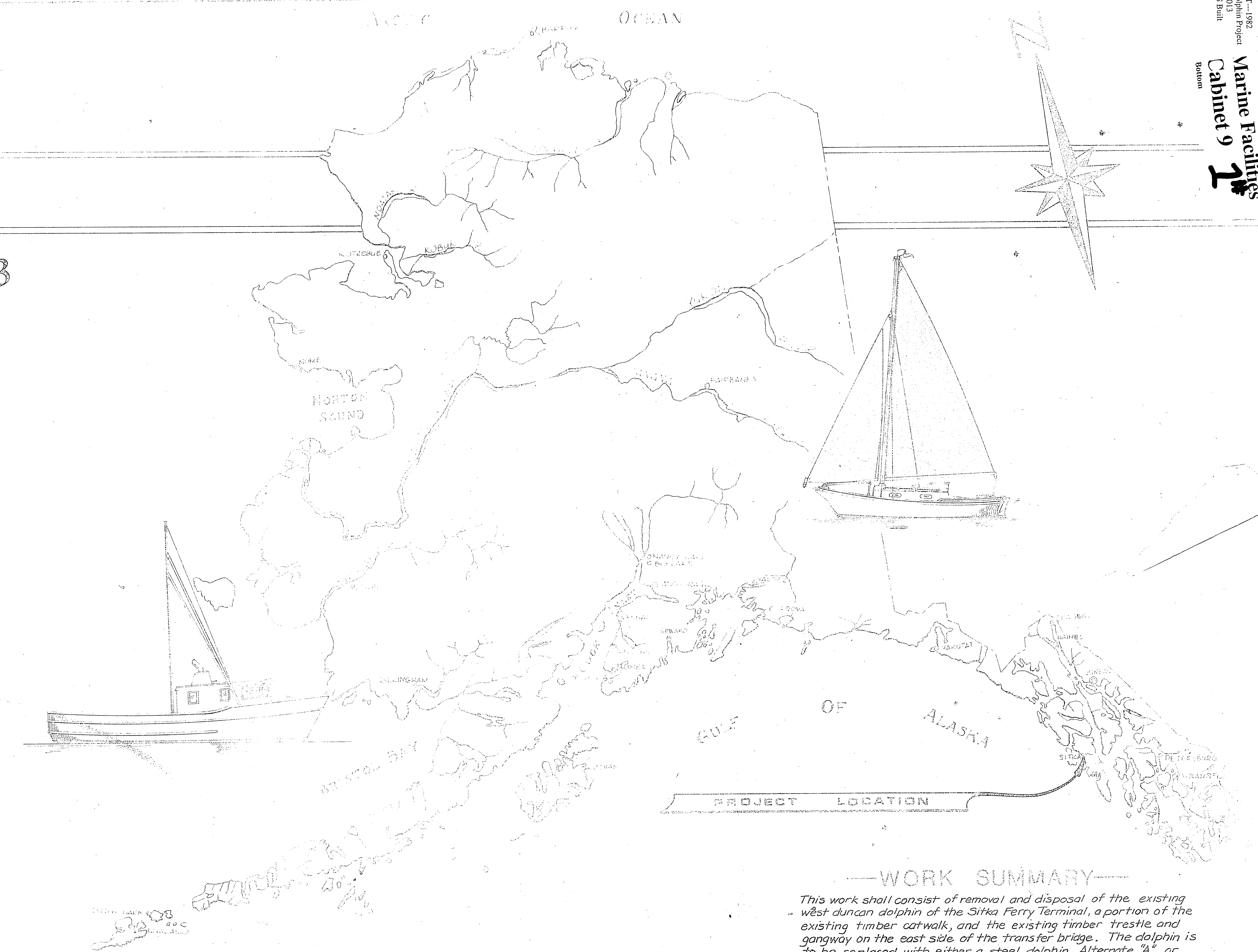
ACCEPTED
4/13/83

RECEIVED
APR 14 1983

Division of Harbor Design
and Construction

1/5
1/5
1/5
1/5

SITKA DOLPHIN PROJECT NO. R-91013



—WORK SUMMARY—

This work shall consist of removal and disposal of the existing west duncan dolphin of the Sitka Ferry Terminal, a portion of the existing timber catwalk, and the existing timber trestle and gangway on the east side of the transfer bridge. The dolphin is to be replaced with either a steel dolphin, Alternate "A", or a similar duncan dolphin, Alternate "B", and a new section of catwalk is to be added. Alternate "C" shall consist of removal of additional existing catwalk and installation of a new steel catwalk.

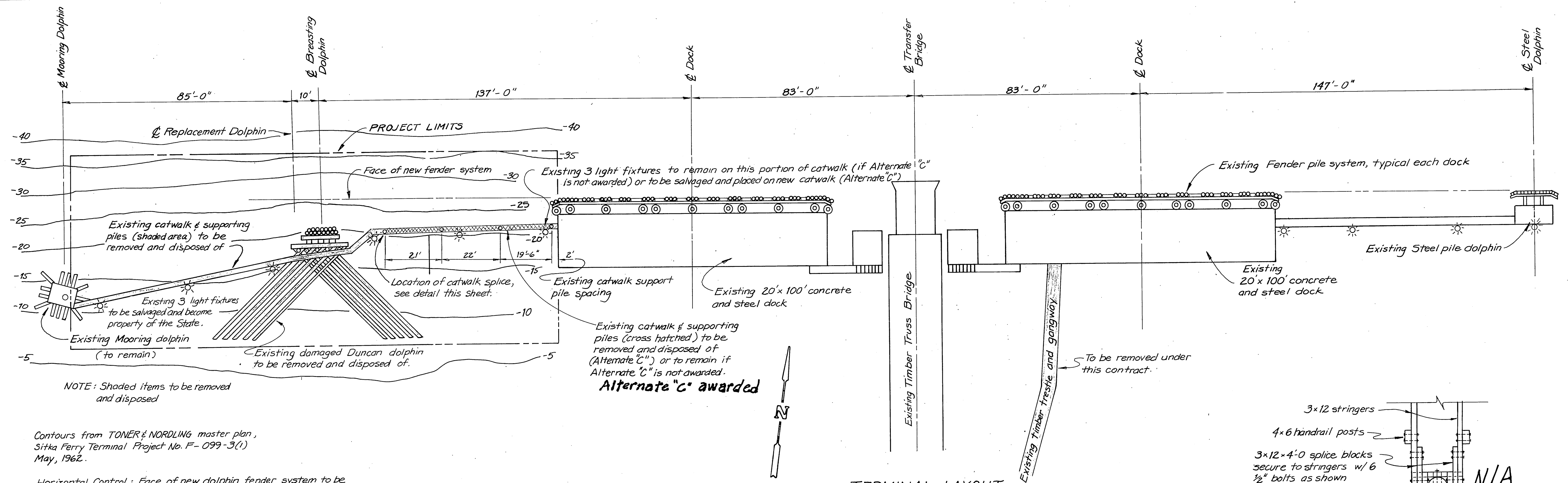
AS BUILT *Mark Valorem* 7/27/83
INDEX TO SHEETS

1	TITLE SHEET	
2	TERMINAL and DOLPHIN PILE LAYOUT and CATWALK DETAILS	
3	ALT. "B", DUNCAN DOLPHIN DETAILS	
4	ALT. "A", STEEL DOLPHIN PLAN and DETAILS	
5	ALT. "A", DOLPHIN DETAILS	
6	ALT. "A", CAP and WALKER DETAILS	
7	ALT. "C", 93'-0" CATWALK & DETAILS	

STATE
OF
ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION
HARBOR DESIGN & CONSTRUCTION

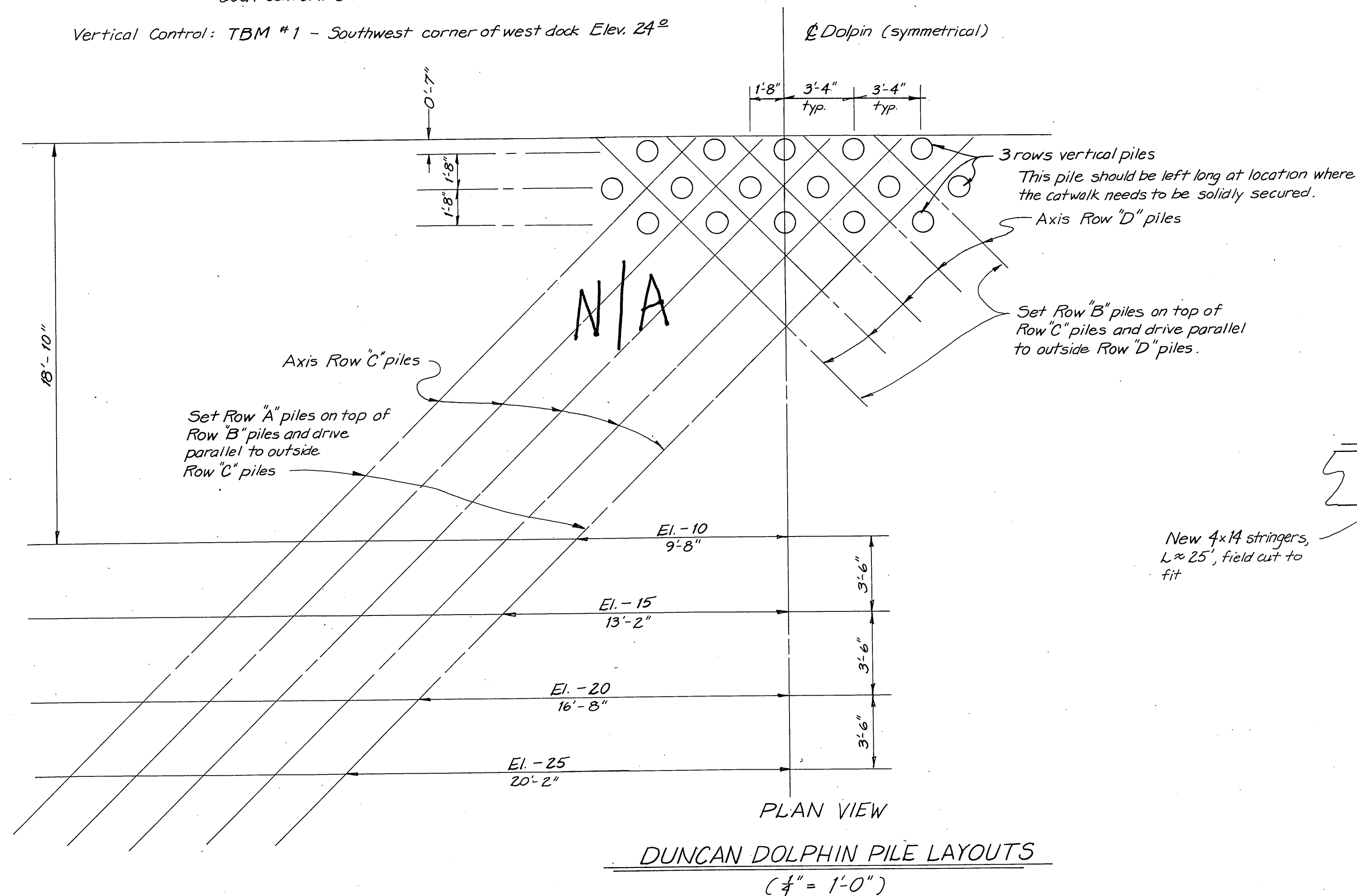
APPROVED
[Signature] 10/1/83
DIRECTOR, D.T. & P.F.
DATE
FOR APPROVAL
[Signature] 10/1/83
CHIEF, S.E. REGION, D.T. & P.F.
DATE
SHEET 1 OF 7



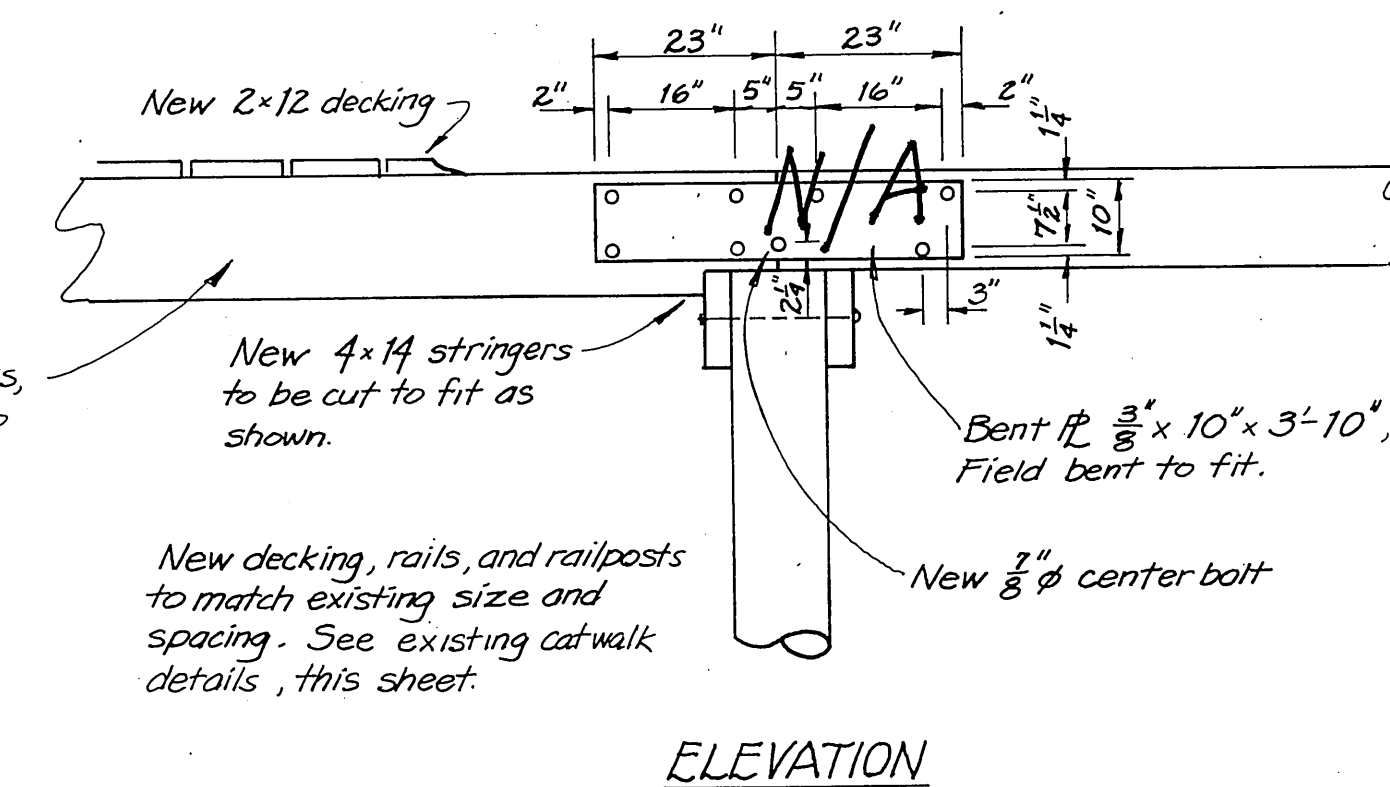
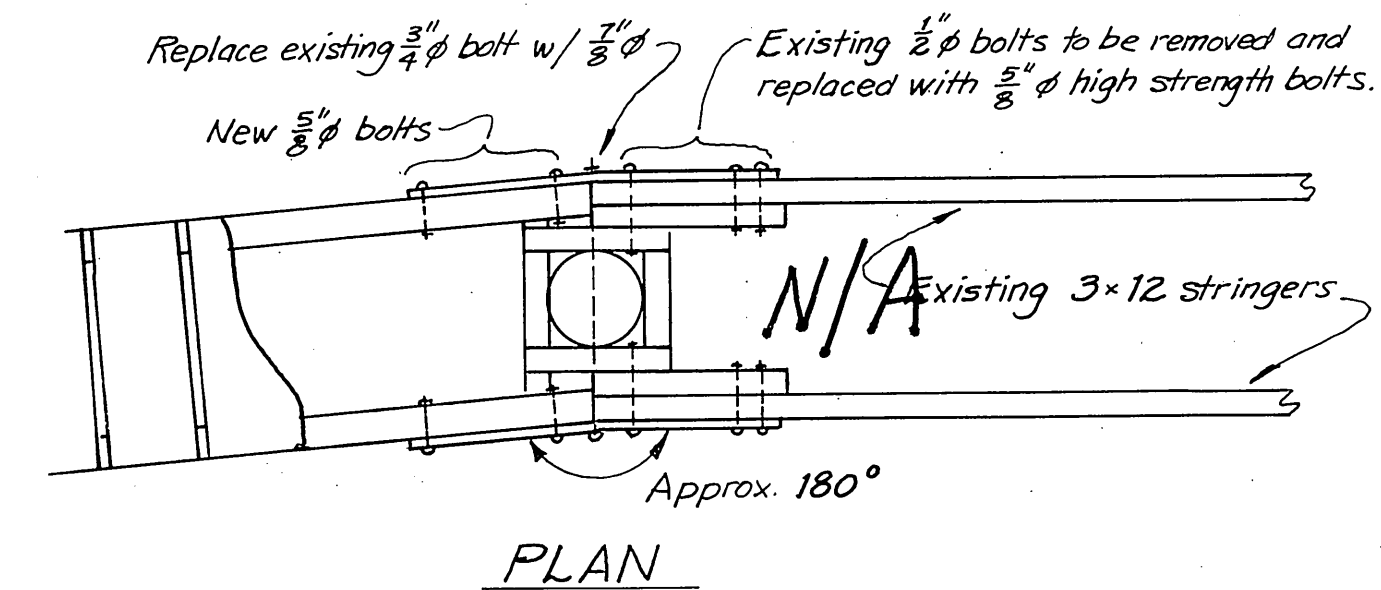
Contours from TONER & NORDLING master plan,
Sitka Ferry Terminal Project No. F-099-3(1)
May, 1962.

Horizontal Control : Face of new dolphin fender system to be in line with face of existing dock fender system. Horizontal measurements to be taken from dock centerline .

Vertical Control: TBM #1 - Southwest corner of west dock Elev. 24^o

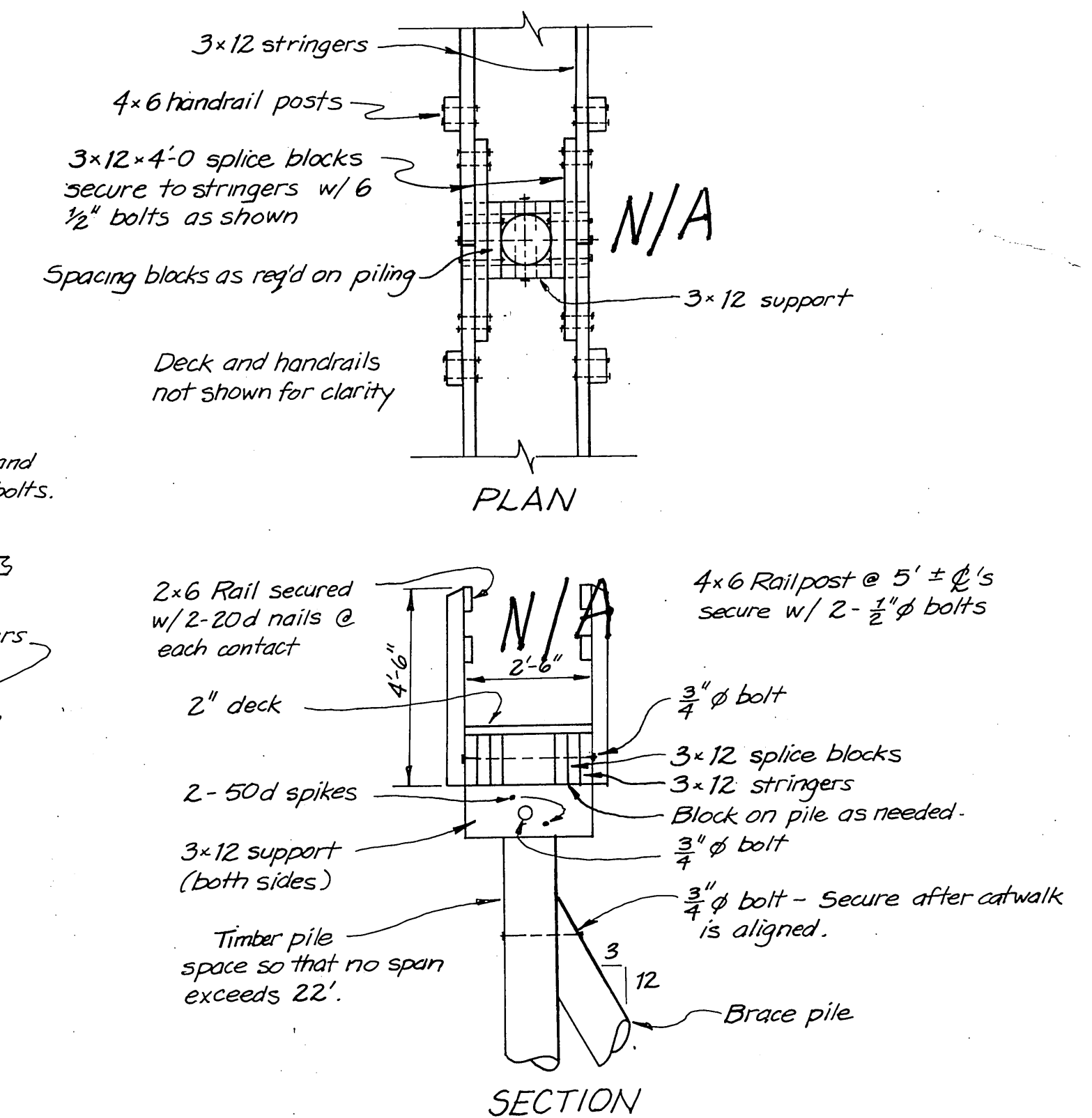


TERMINAL LAYOUT
(1" = 20')



CATWALK SPLICE DETAIL
($\frac{1}{2}'' = 1'-0''$)

NOTE: If Alternate "C" is awarded these details do not apply, see sheet 7.



EXISTING CATWALK DETAILS
($\frac{1}{8}" = 1'-0"$)

AS BUILT M.S. 9/27/83

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

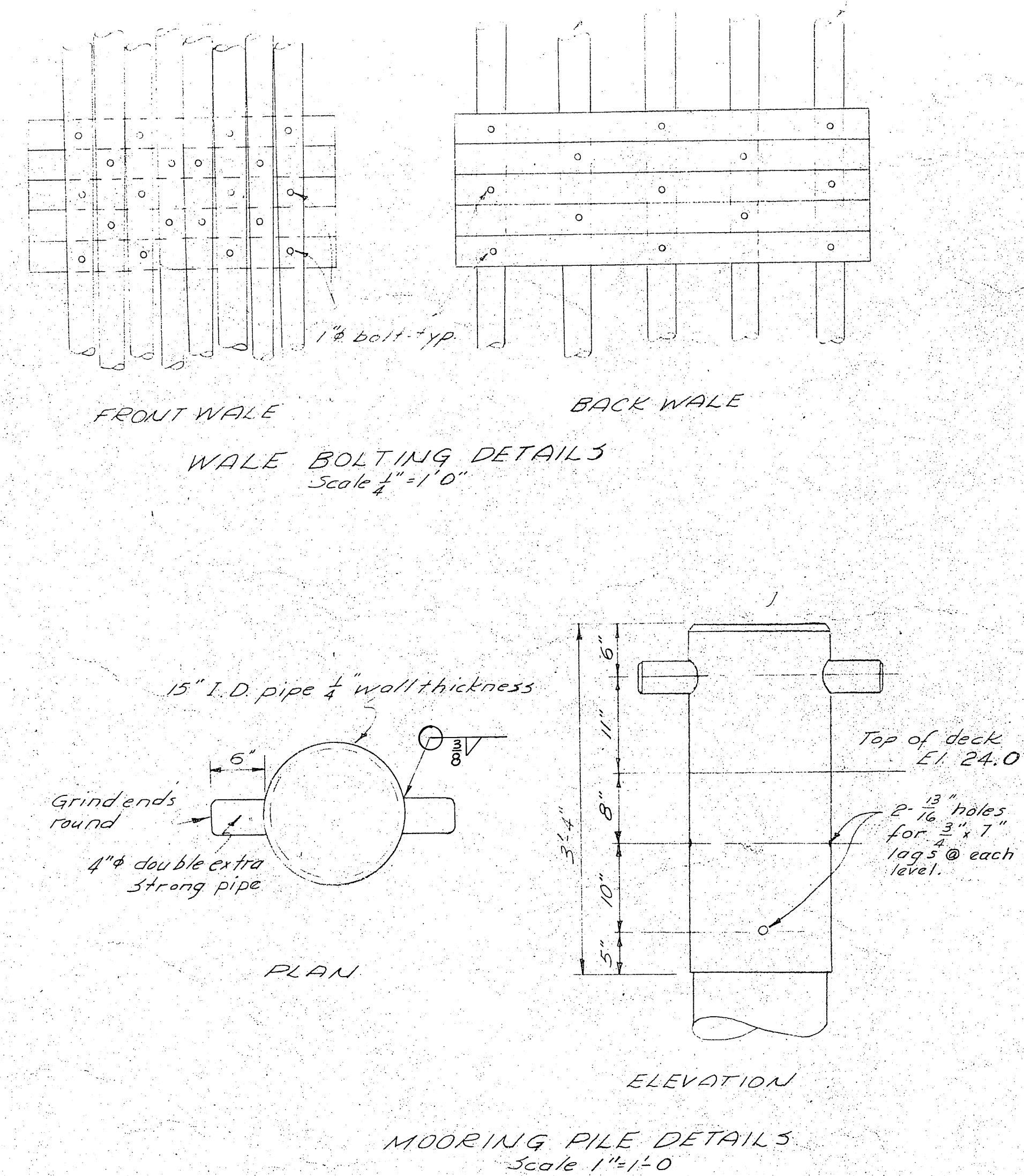
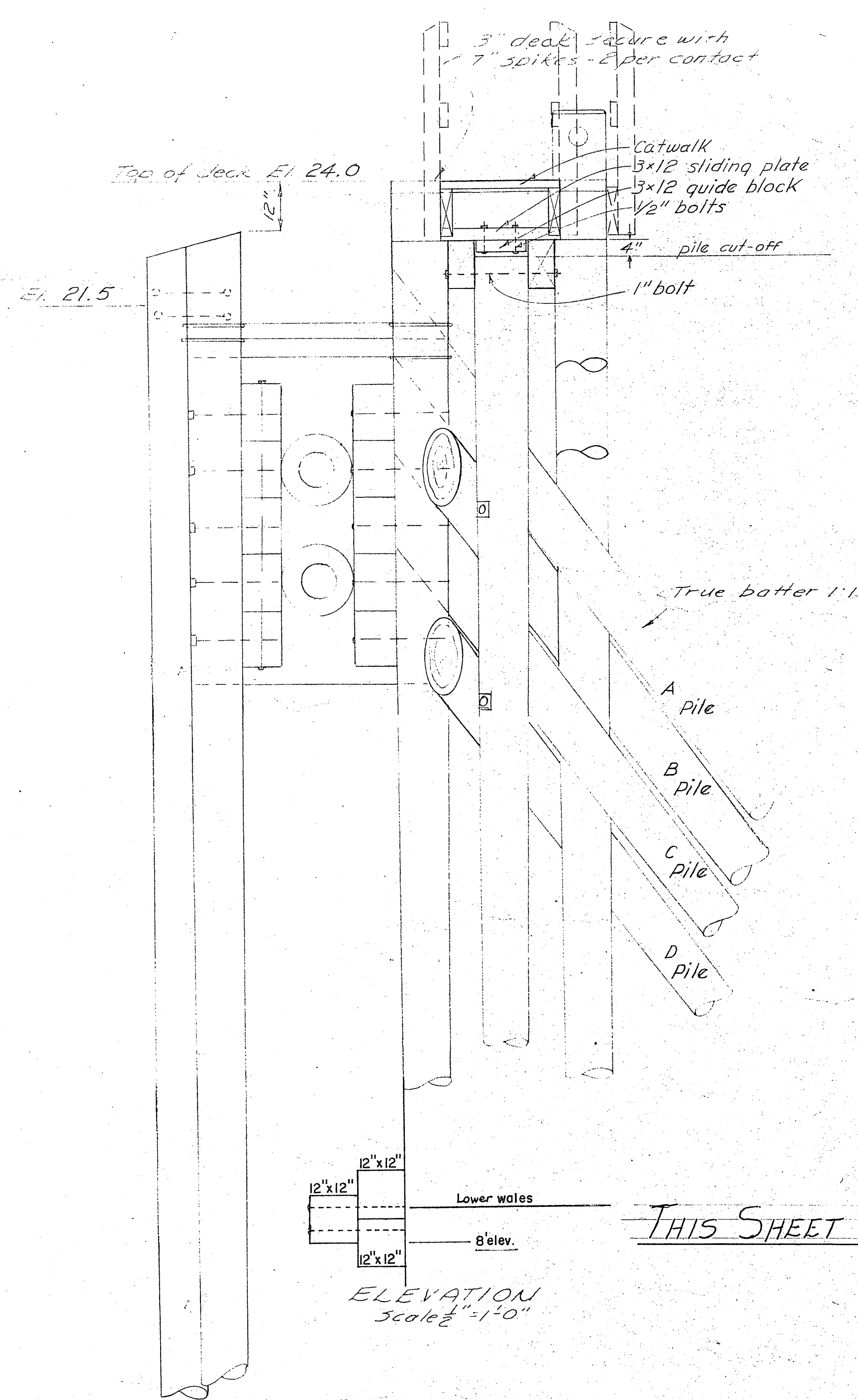
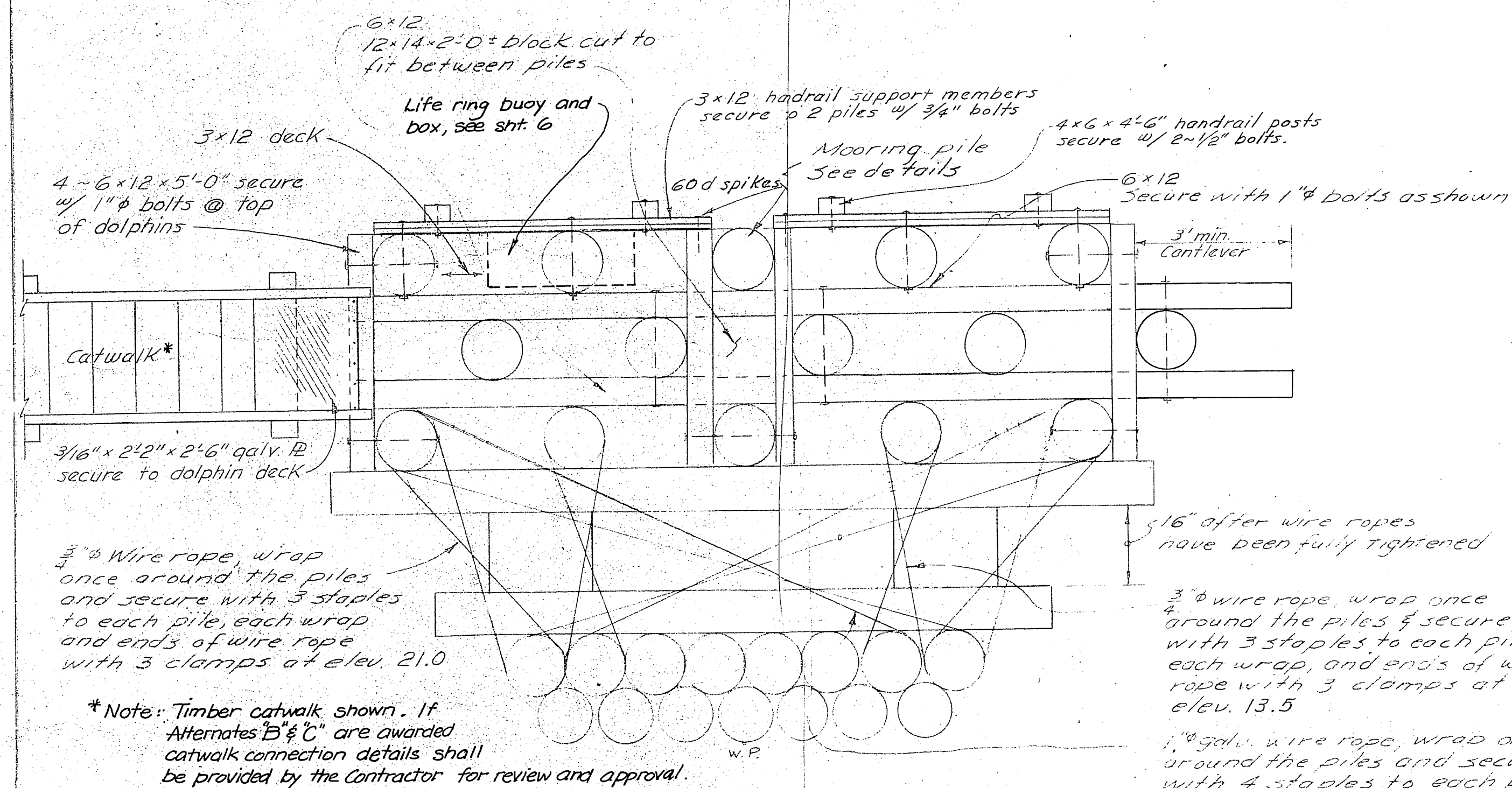
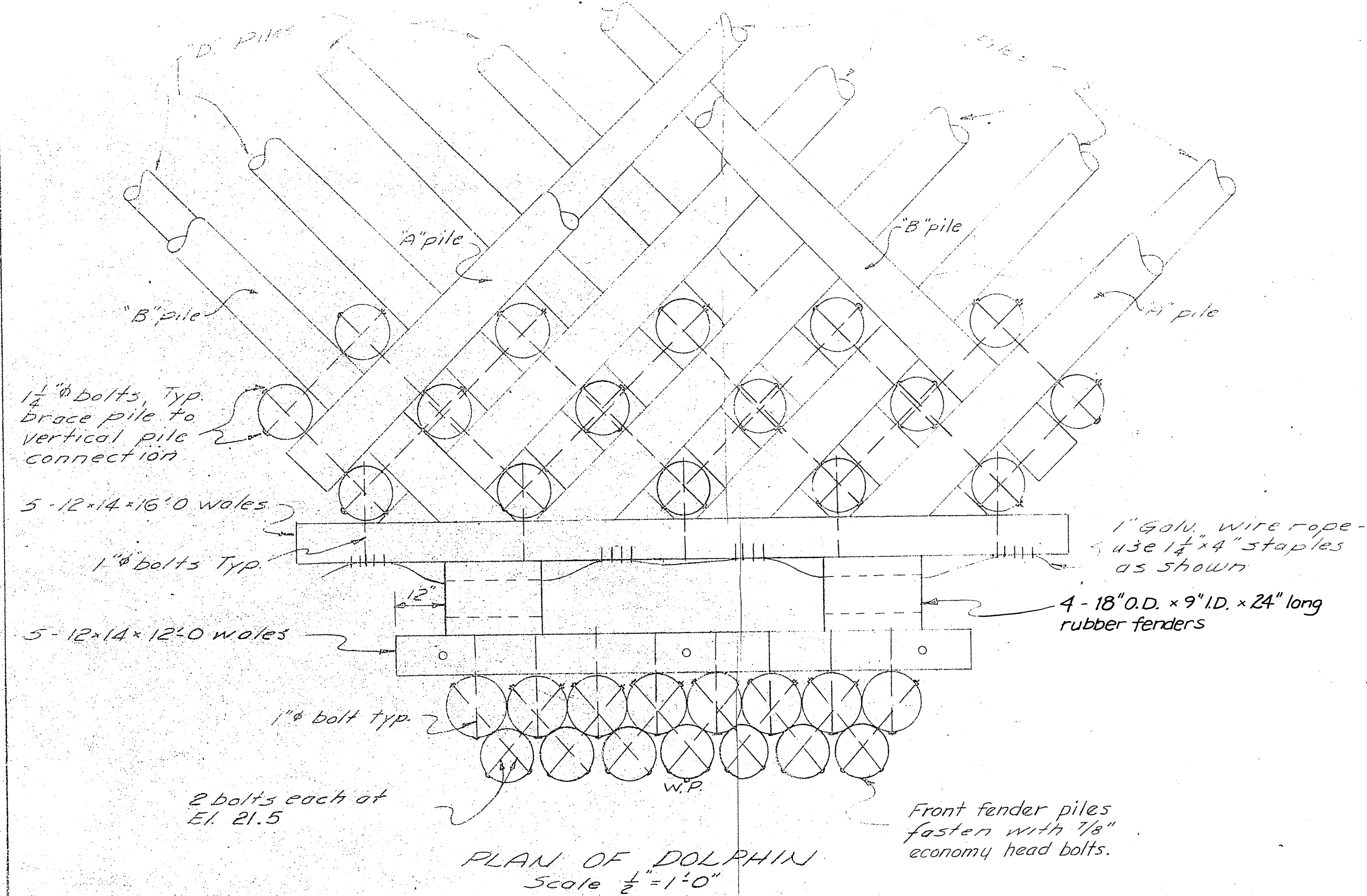
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
HARBOR DESIGN AND CONSTRUCTION

Sitka

Alaska

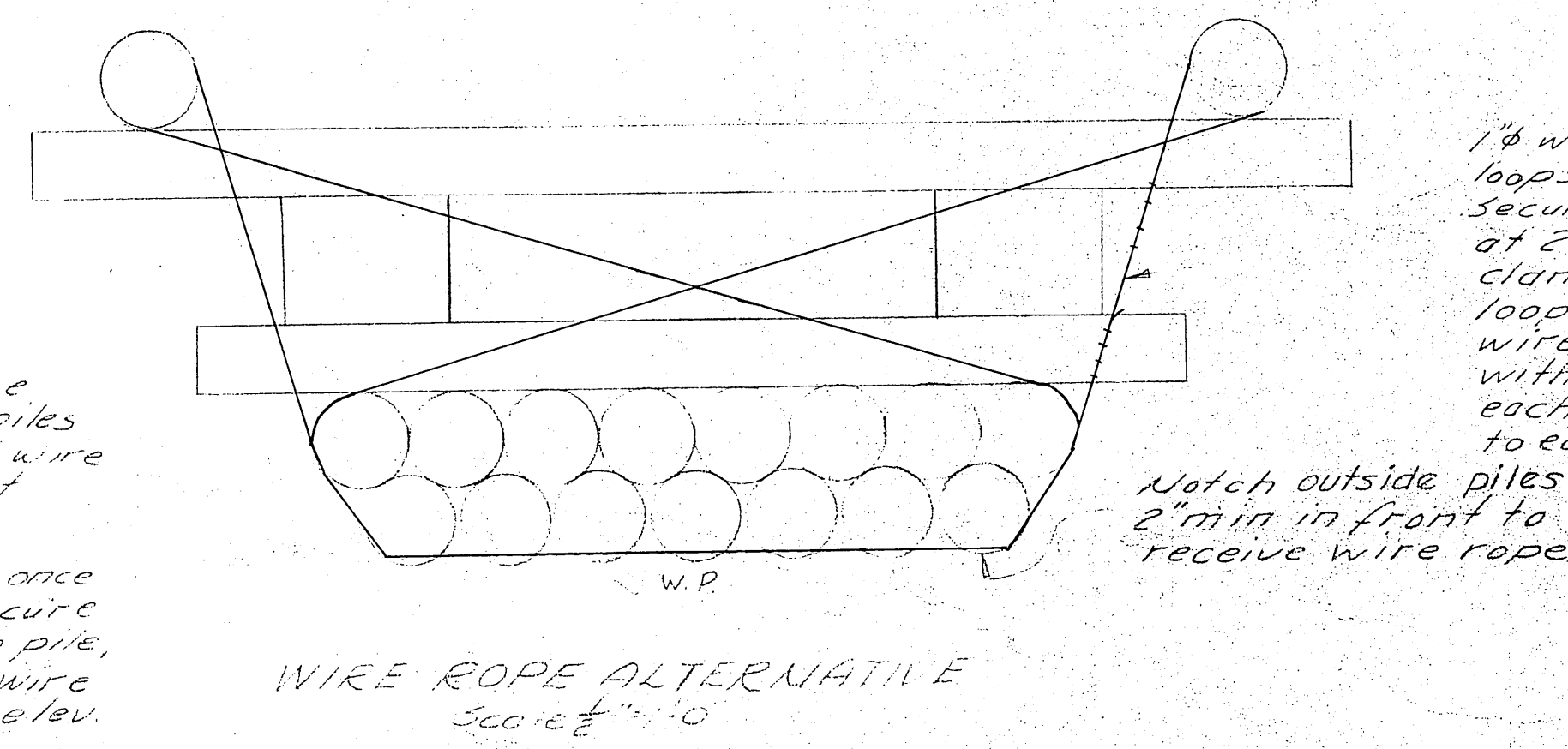
TERMINAL and DOLPHIN PILE LAYOUT
and CATWALK DETAILS

SCALE _____	SURVEYED _____	APPROVED _____
DESIGNED <u>BS</u>	DRAWN <u>BS</u>	<u>Robert P. Beck</u>
CHECKED _____	DATE _____	<u>James A. Lowell</u>
PROJECT NUMBER <u>R91013</u>		SHEET <u>2</u> OF <u>7</u>



THIS SHEET NOT APPLICABLE
M 9/27/83

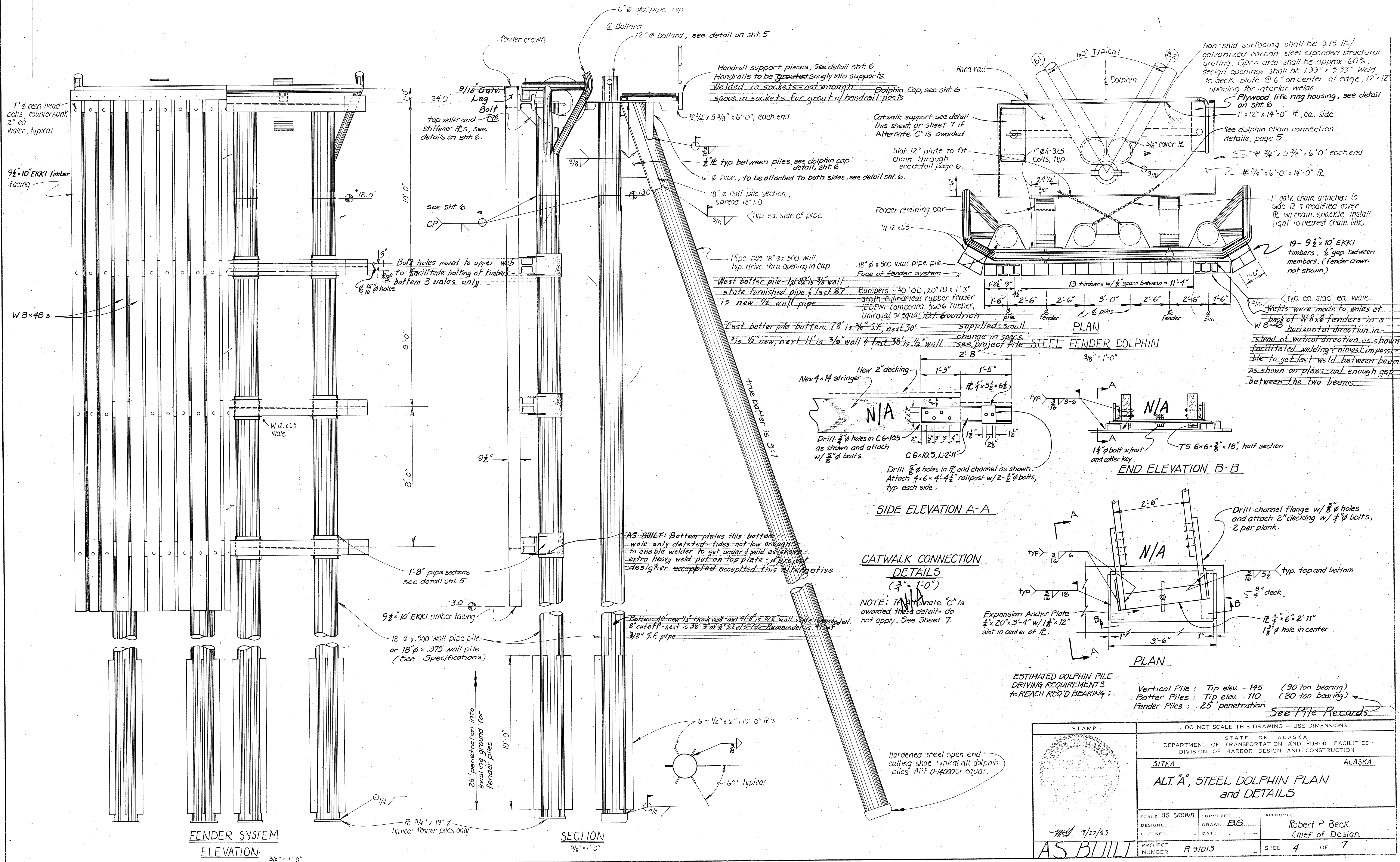
- NOTES
- Whenever a brace pile passes between two vertical piles, the three piles shall be connected with a 1 1/2" bolt (2 connections per brace pile).
 - The fender holding cables shall be tightened fully and the rubber fender blocks compressed to the distance between wales will measure no more than 16".
 - Use 12 washers for all dolphin bolts in the following sizes:
1/2" x 5" - for 1 1/2" bolts (2 req'd per bolt)
1/2" x 4" - for 1" bolts (2 req'd per bolt)
 - All piling to driven tip down to 25' penetration.
 - Minimum tip circumference for vertical piles = 38"
Minimum tip circumference for batter piles = 28"

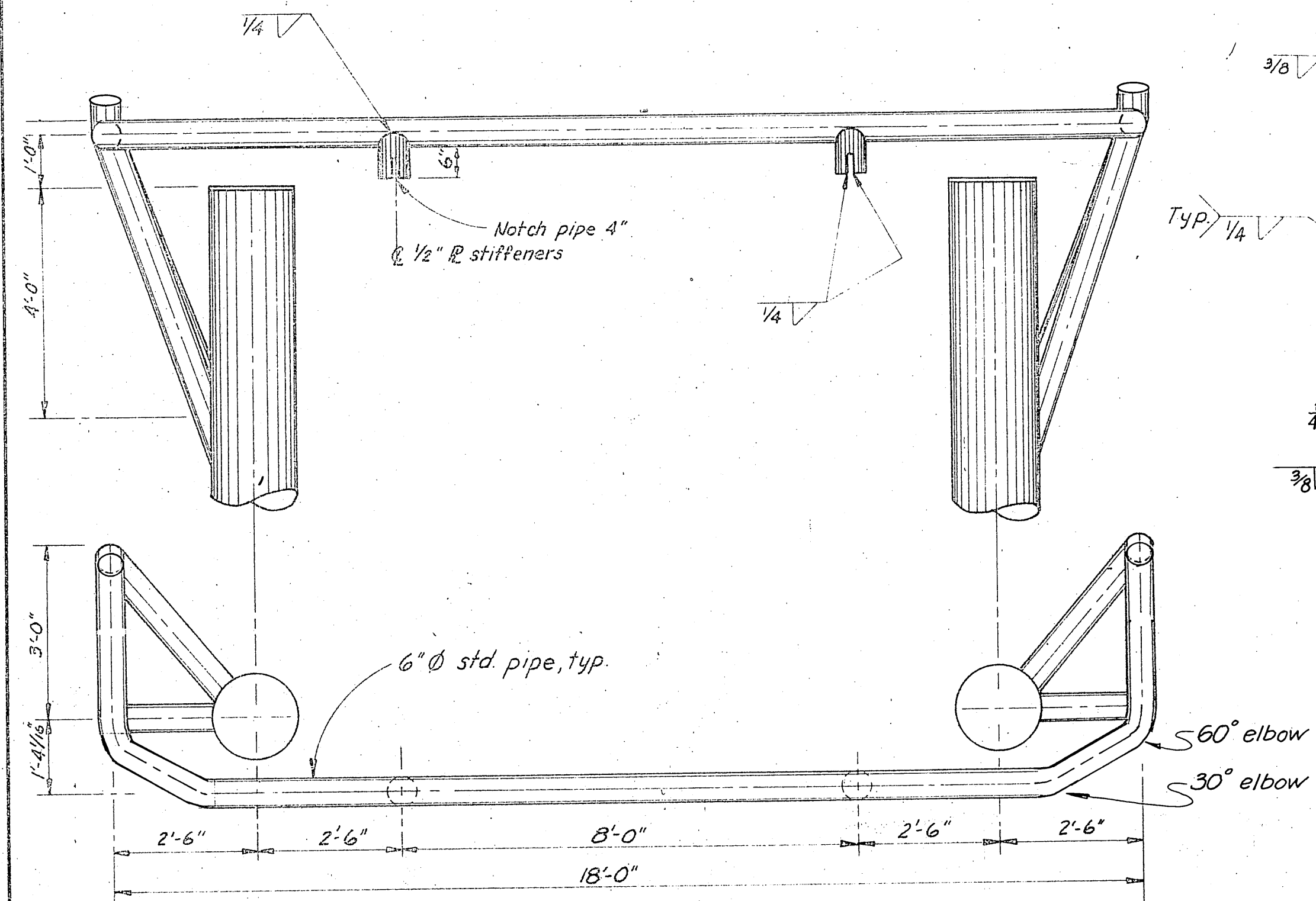


Design by Swan-Wooster Engineering
Vancouver, B.C.
Design for Alaska Barite Co.
Barite Island Development
Elevations revised for use at Sitka.
Revisions by Alaska Dept. of Public Works.
Revised 11/82 BS

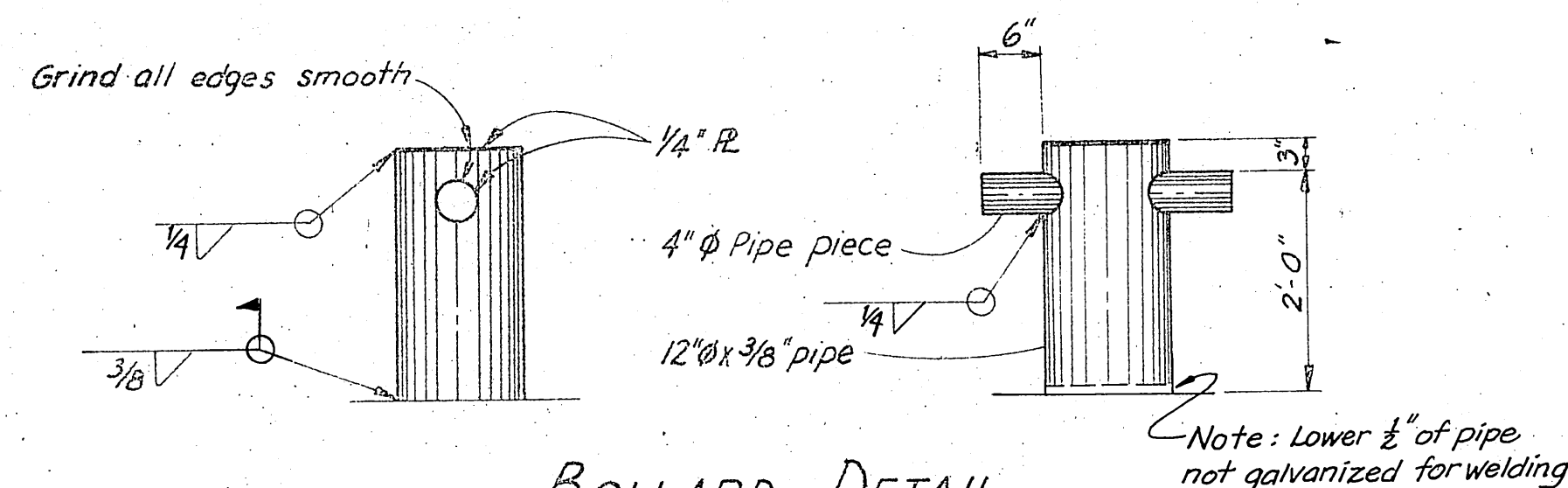
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS	
ALT B, DUNCAN DOLPHIN DETAILS DOLPHIN ADDITIONS SITKA FERRY TERMINAL	
SCALE: As Shown DATE: Jan. 20, 1989 PROJ. NO. R91013	Robert P. Beck James A. Lowell APPROVED
SURVEYED BY:	CHECKED BY: J. W.
Sheet 3 of 7	

BY CAMPBELL & ASSOC.

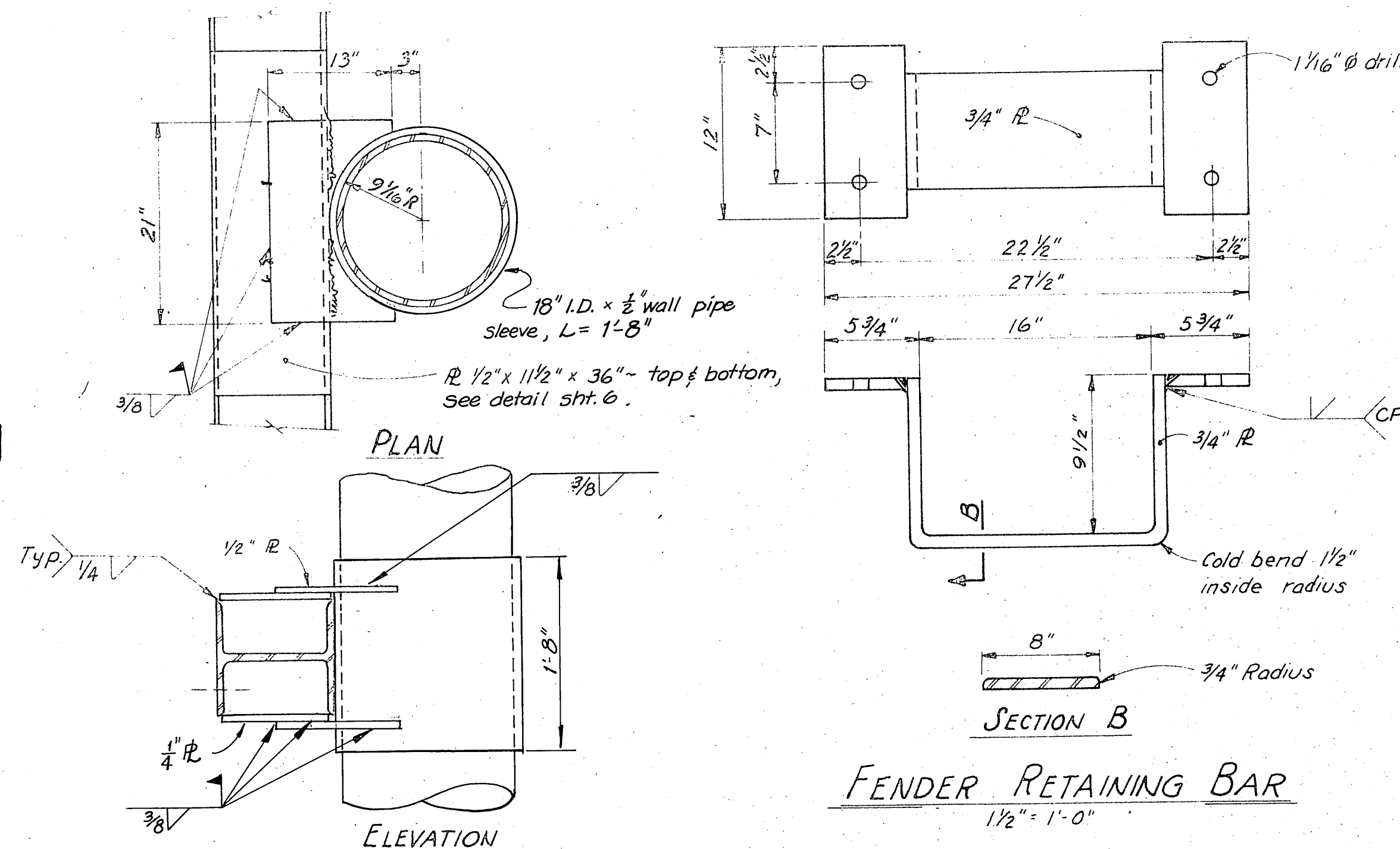




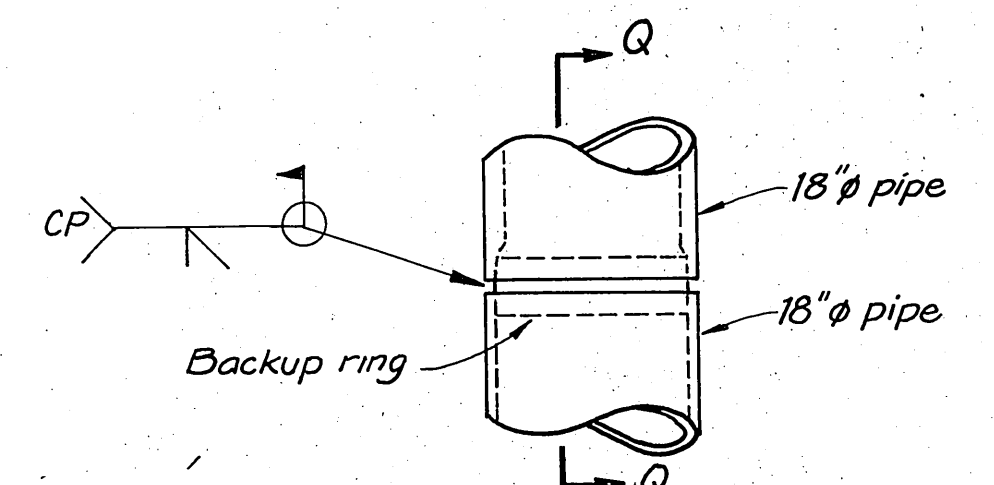
UPPER RAIL
1/2" = 1'-0"



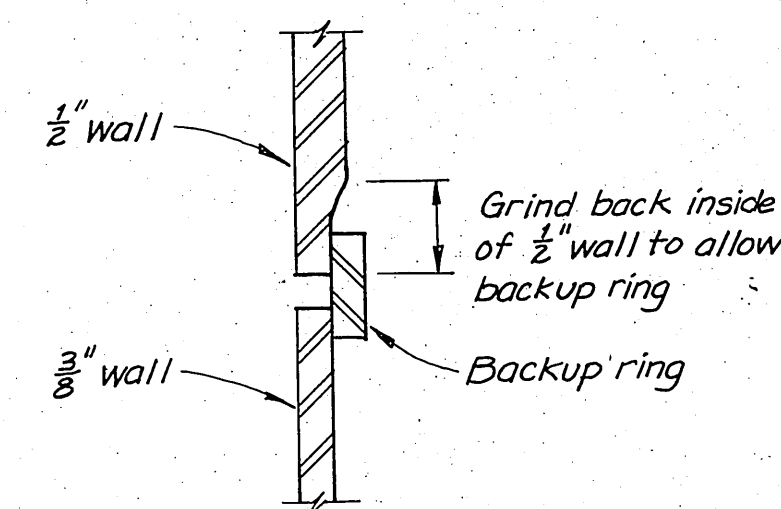
BOLLARD DETAIL
3/4" = 1'-0"



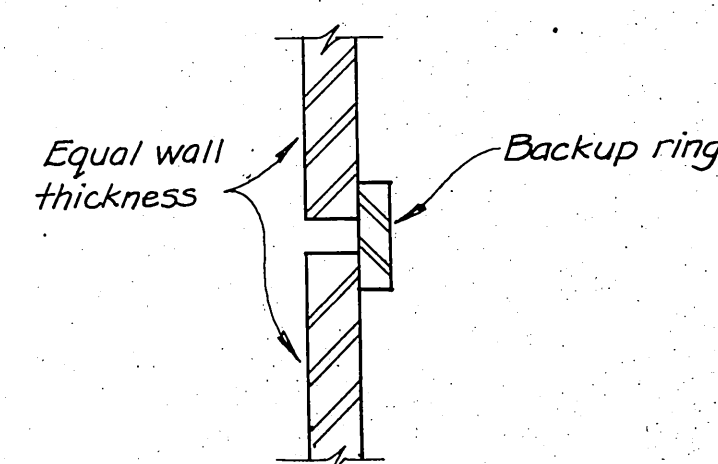
FENDER RETAINING BAR
1 1/2" = 1'-0"



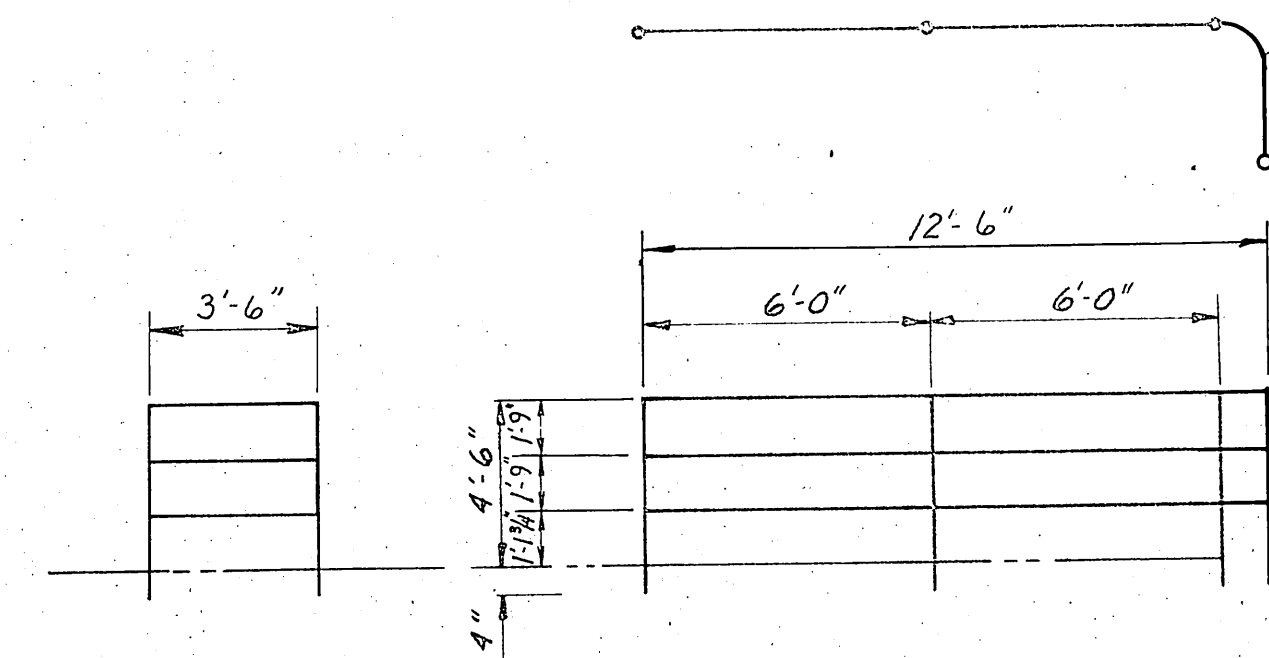
PILE SPLICE DETAIL
(1/2" wall to 3/8" wall shown) No scale



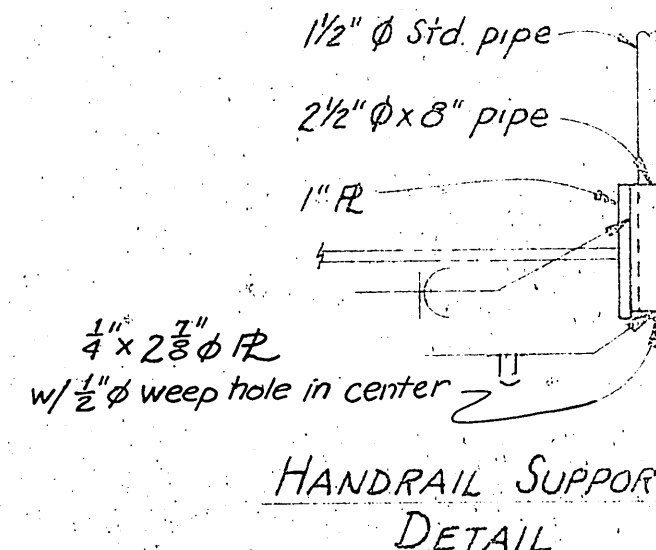
SECTION Q-Q
(1/2" wall to 3/8" wall)



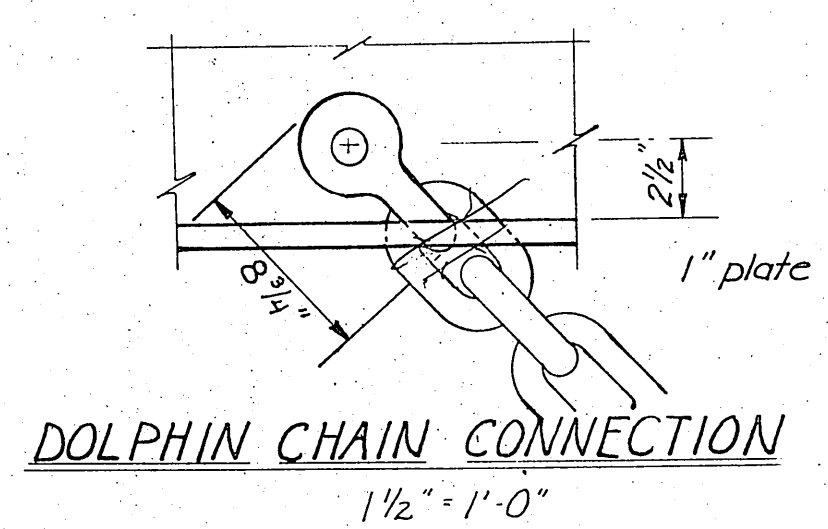
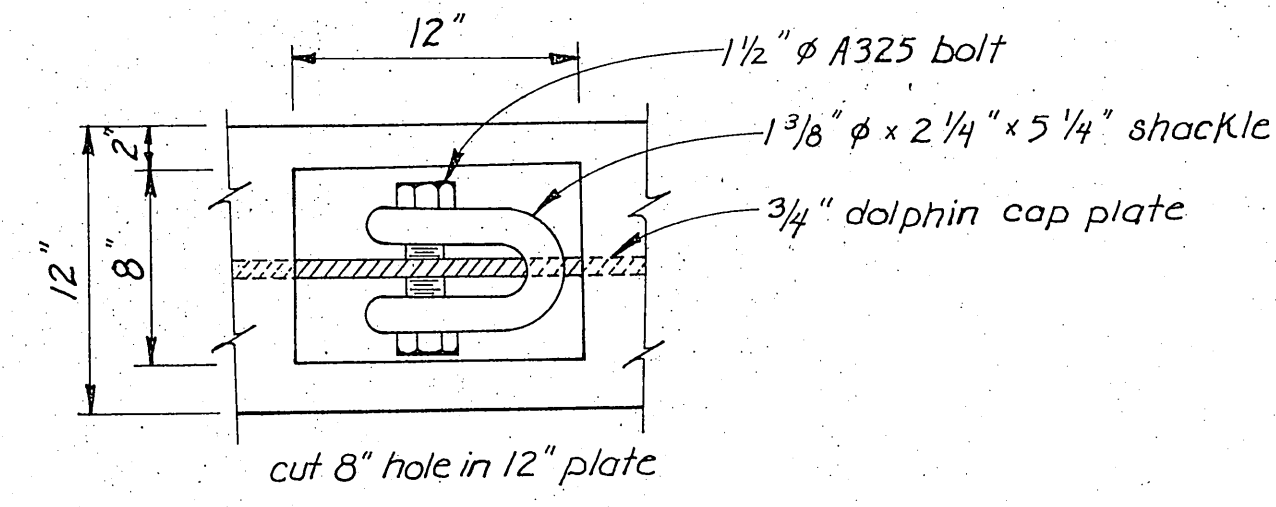
SECTION Q-Q
(1/2" to 1/2" or 3/8" to 3/8")



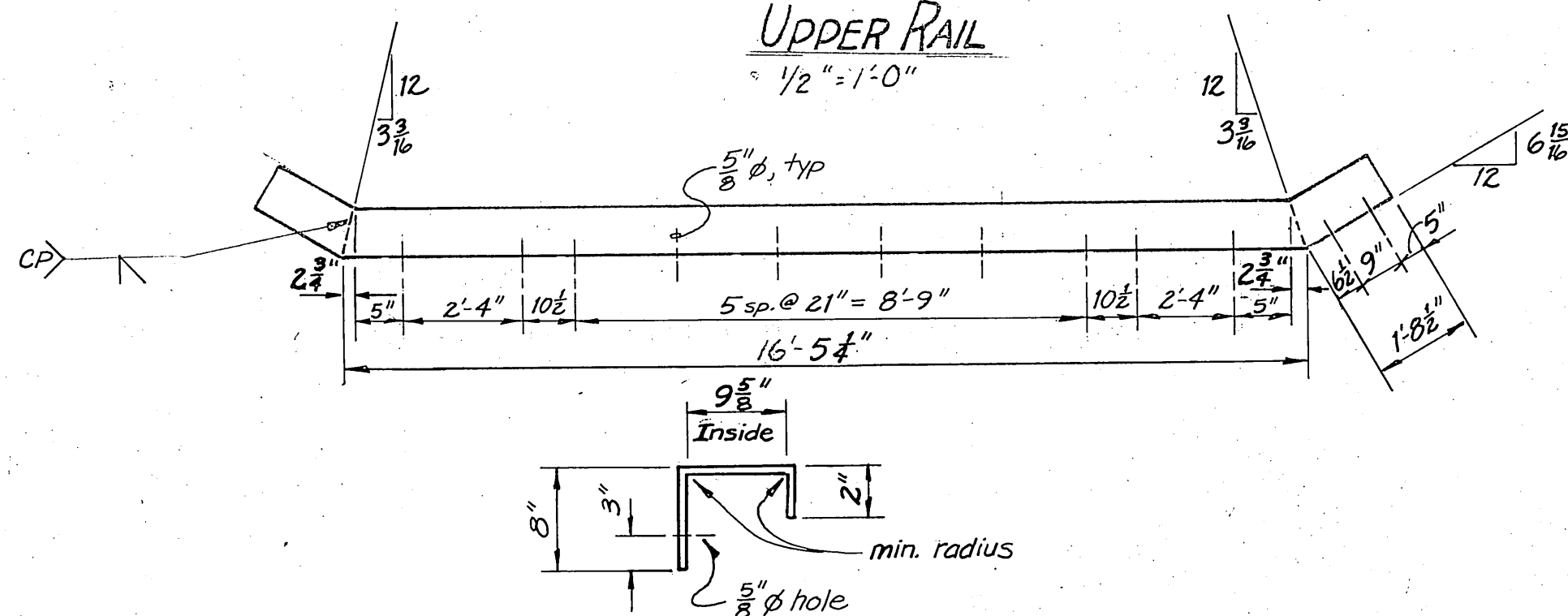
HANDRAIL CONSTRUCTION DETAILS
1" = 1'-0"



HANDRAIL SUPPORT DETAIL



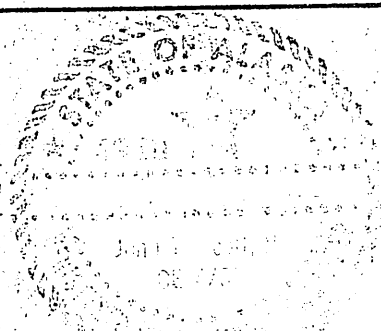
DOLPHIN CHAIN CONNECTION
1 1/2" = 1'-0"

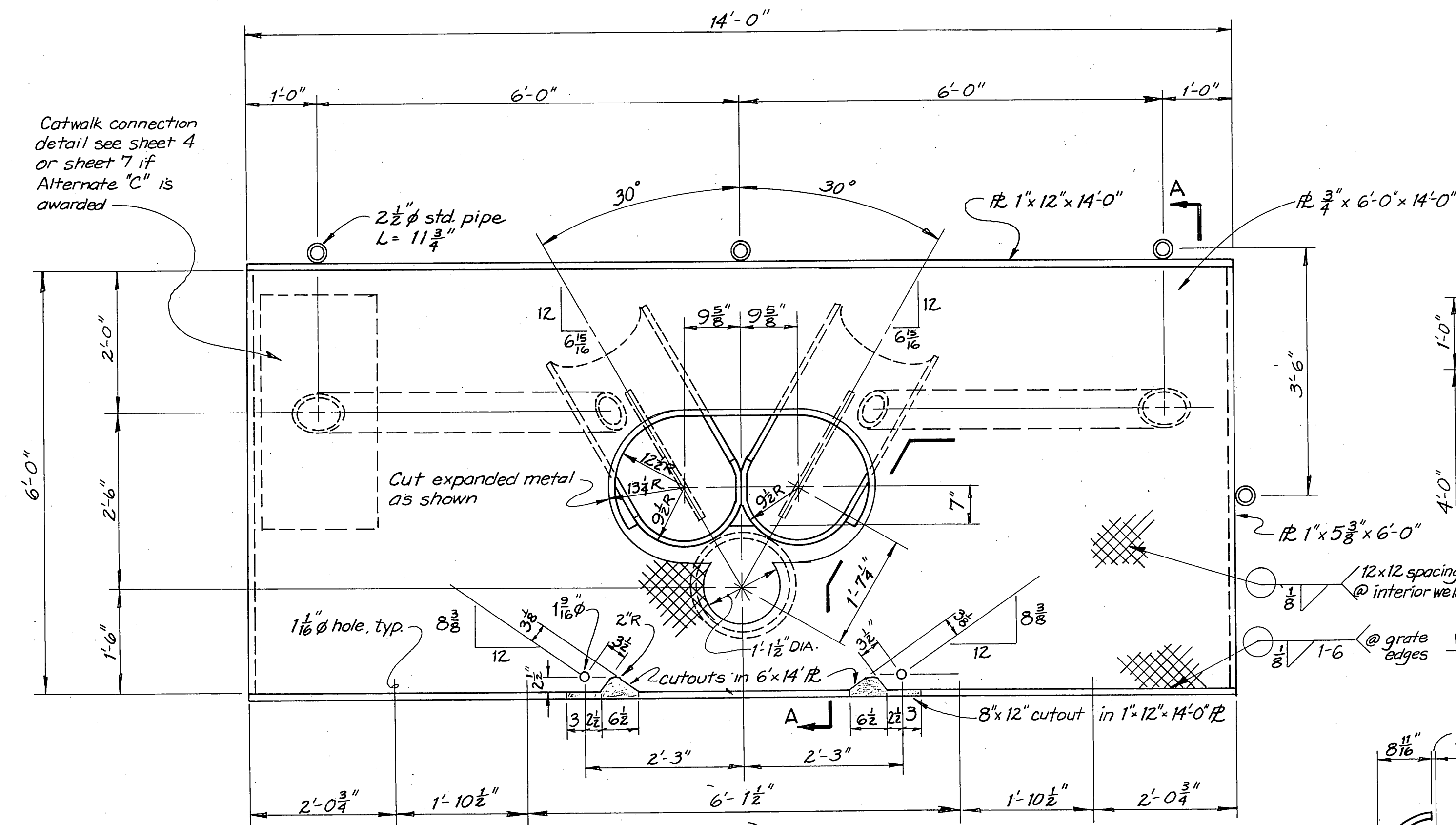


FENDER CROWN
NTS

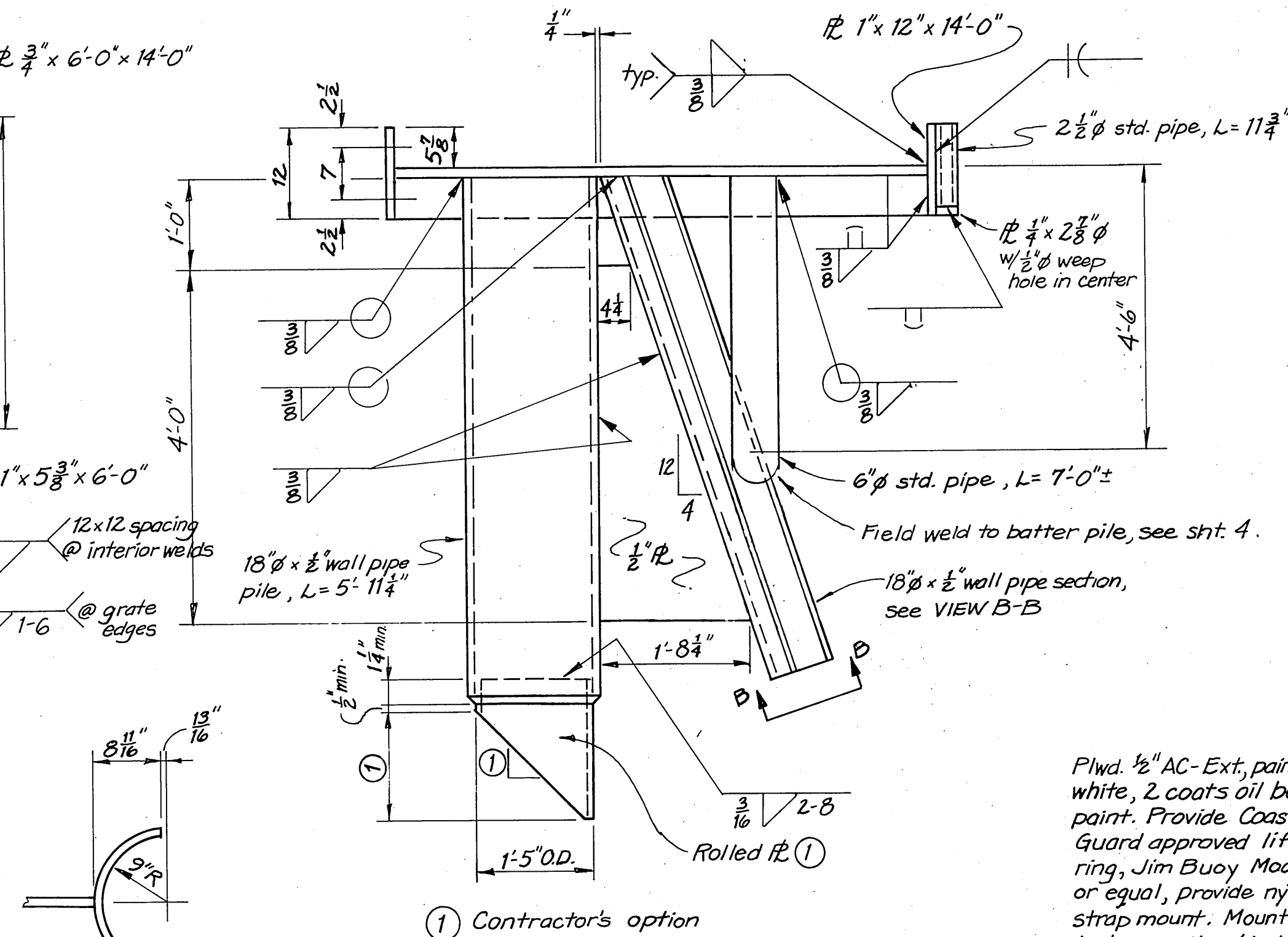
Cut from TS 10x10 x 3/8" x 19'-11" or fabricate from 3/8" R

AS BUILT 7/27/83

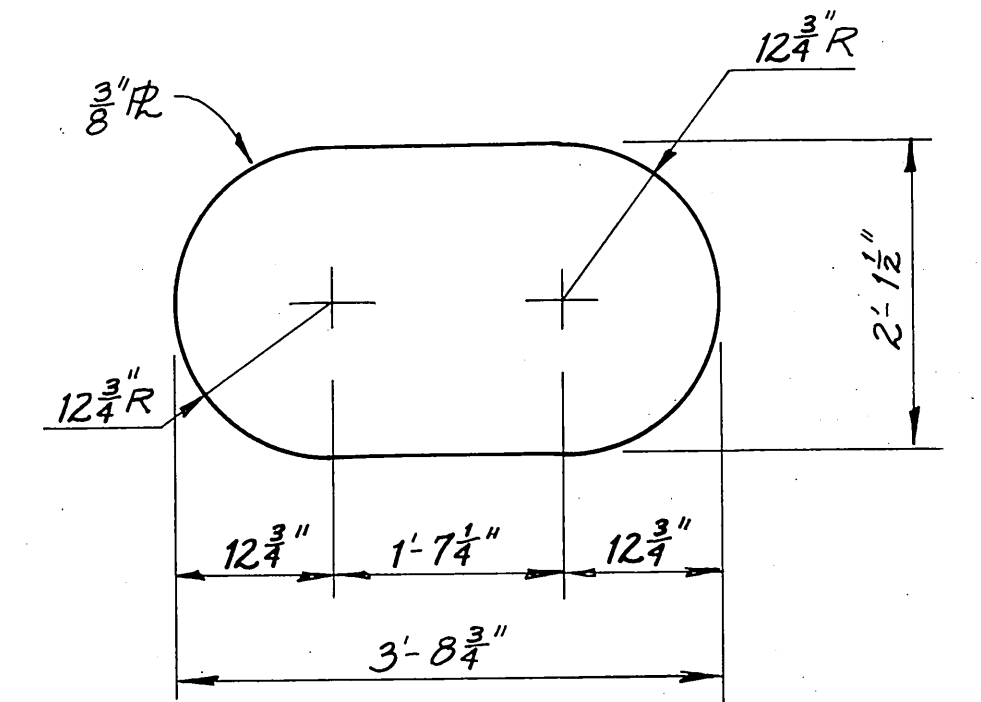
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	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
	<u>SITKA</u>		<u>ALASKA</u>
	ALT. "A", DOLPHIN DETAILS		
	SCALE <i>As Noted</i>	SURVEYED	APPROVED
DESIGNED	DRAWN <i>SJS/TS</i>	<i>Robert P. Beck</i>	
CHECKED	DATE	DATE	
PROJECT NUMBER <i>R 91013</i>	SHEET <i>5</i> OF <i>7</i>		



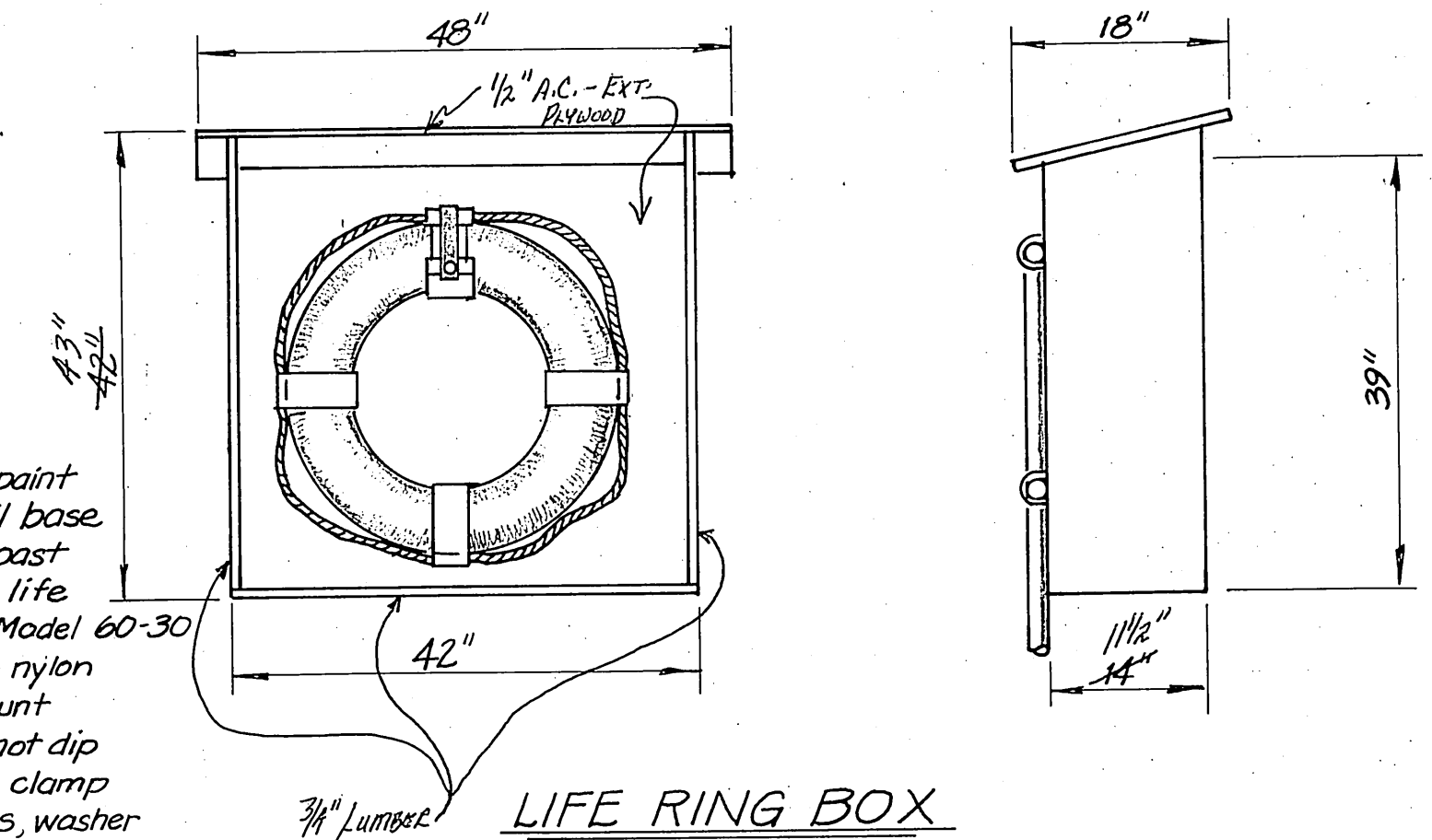
DOLPHIN CAP DETAILS
(3/4" = 1'-0")



SECTION A-A
(3/4" = 1'-0")



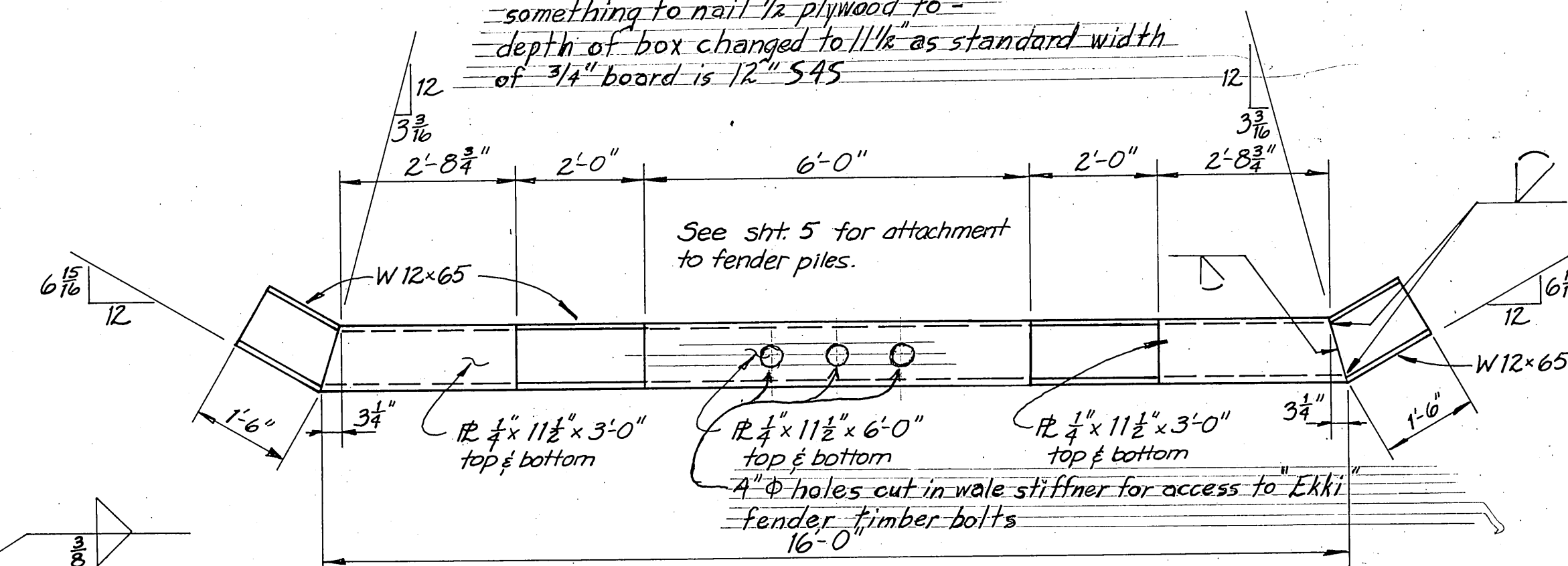
COVER PLATE DETAIL
(3/4" = 1'-0")



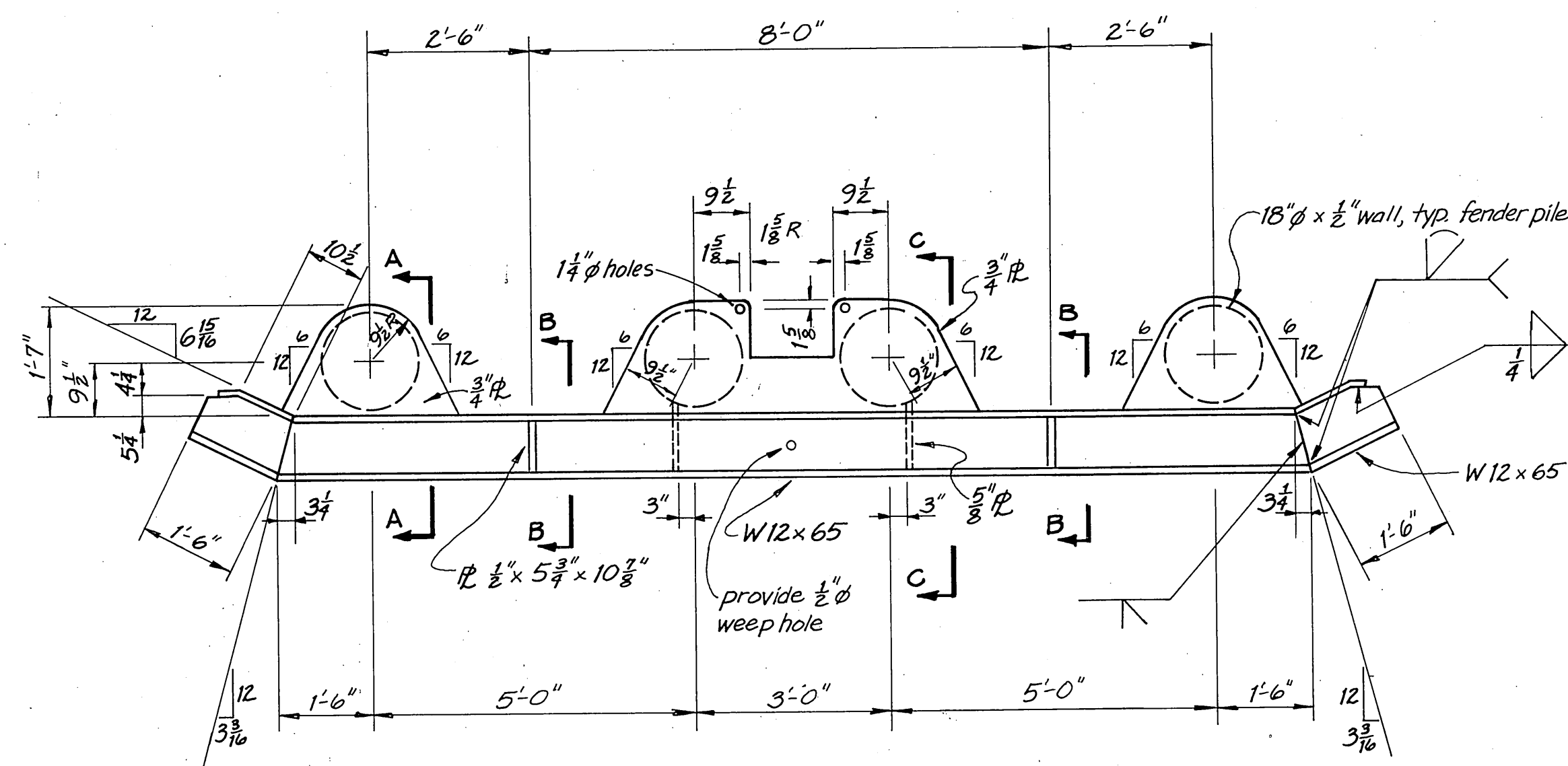
Plwd. 1/2" AC-EXT, paint white, 2 coats oil base paint. Provide Coast Guard approved life ring, Jim Buoy Model 60-30 or equal, provide nylon strap mount. Mount to hand rail w/ hot dip galvanized pipe clamp and bronze bolts, washer and nut.

LIFE RING BOX
(3/4" = 1'-0")

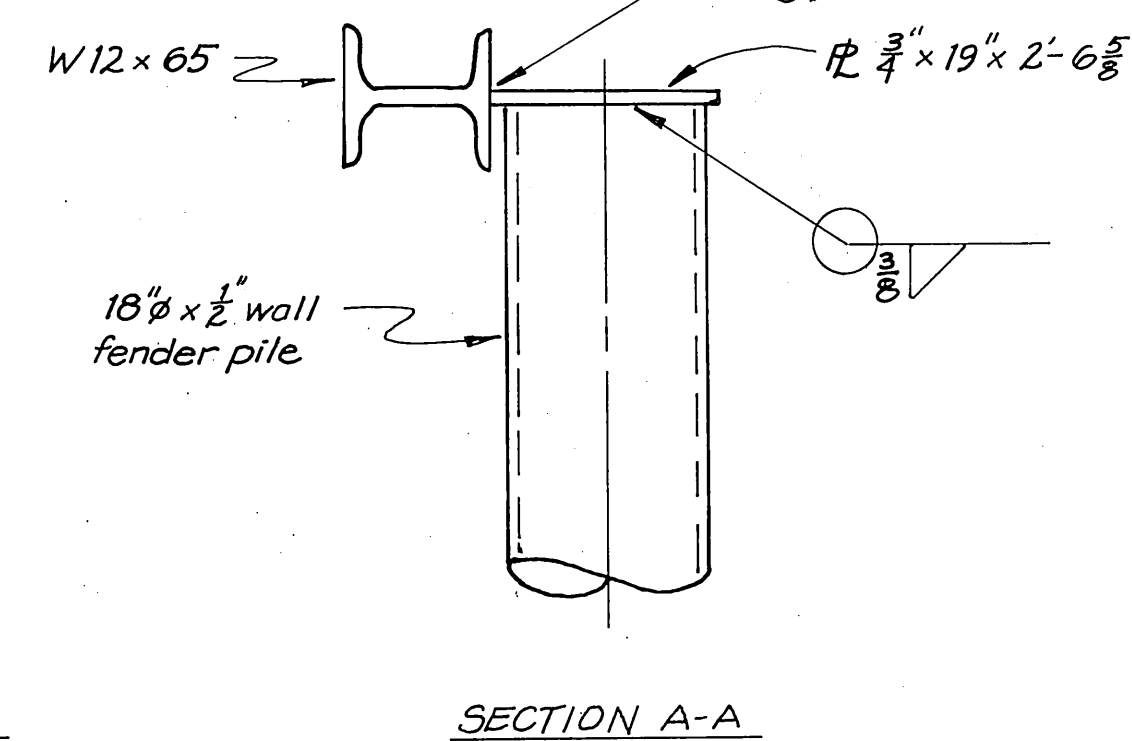
Used 3/4" siding + bottom - gives (3/4" = 1'-0") something to nail 1/2" plywood to - depth of box changed to 11 1/2" as standard width of 3/4" board is 12" S4S



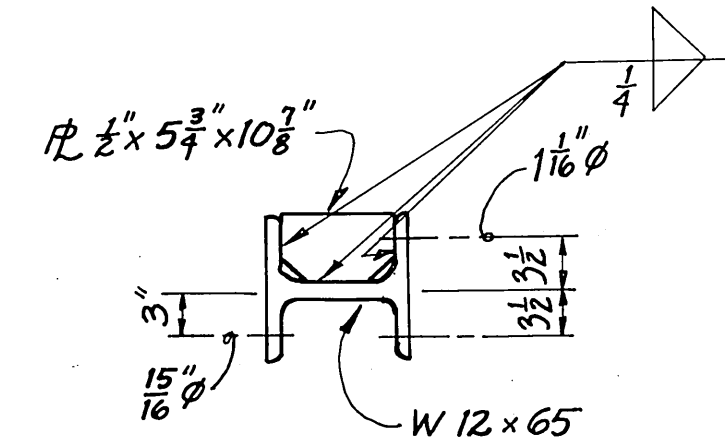
TYPICAL LOWER WALER, 3 REQ'D
(1/2" = 1'-0")



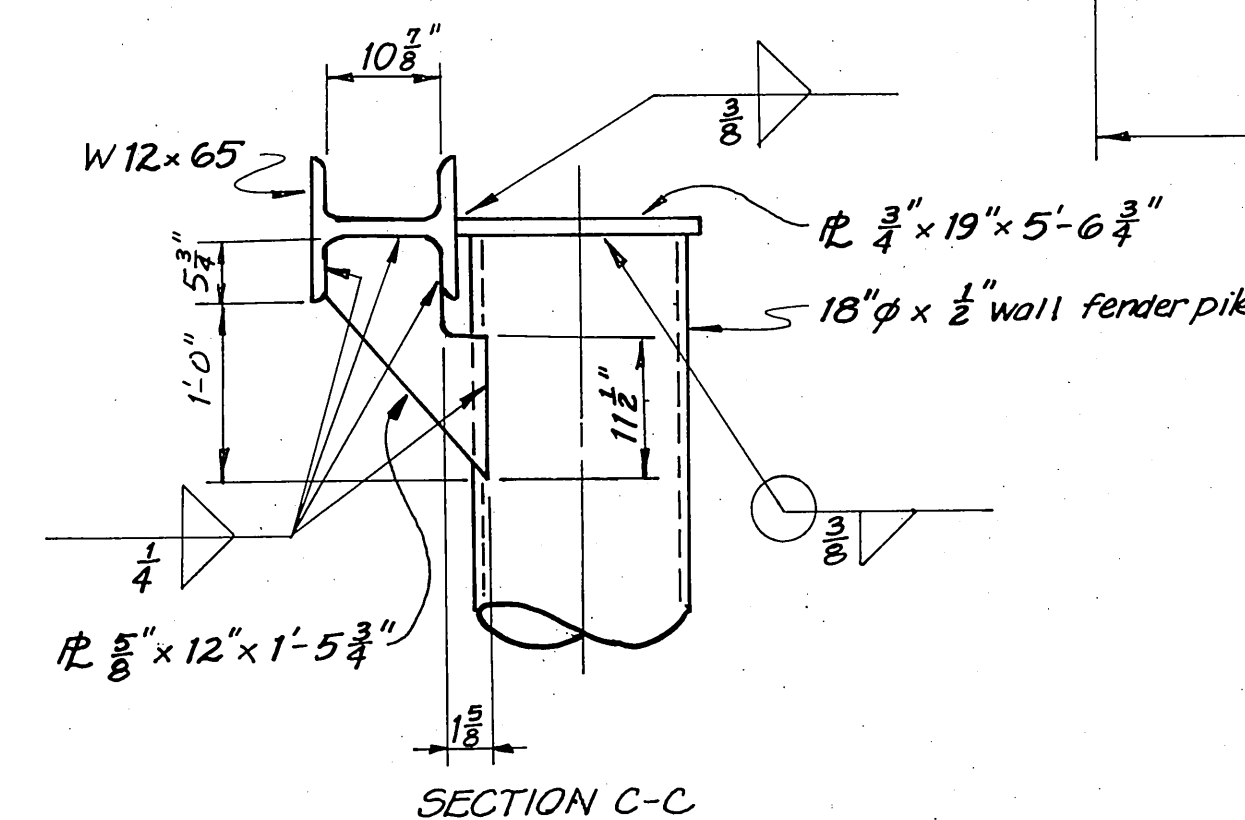
TOP WALER DETAIL
(1/2" = 1'-0")



SECTION A-A
(3/4" = 1'-0")



SECTION B-B
(3/4" = 1'-0")

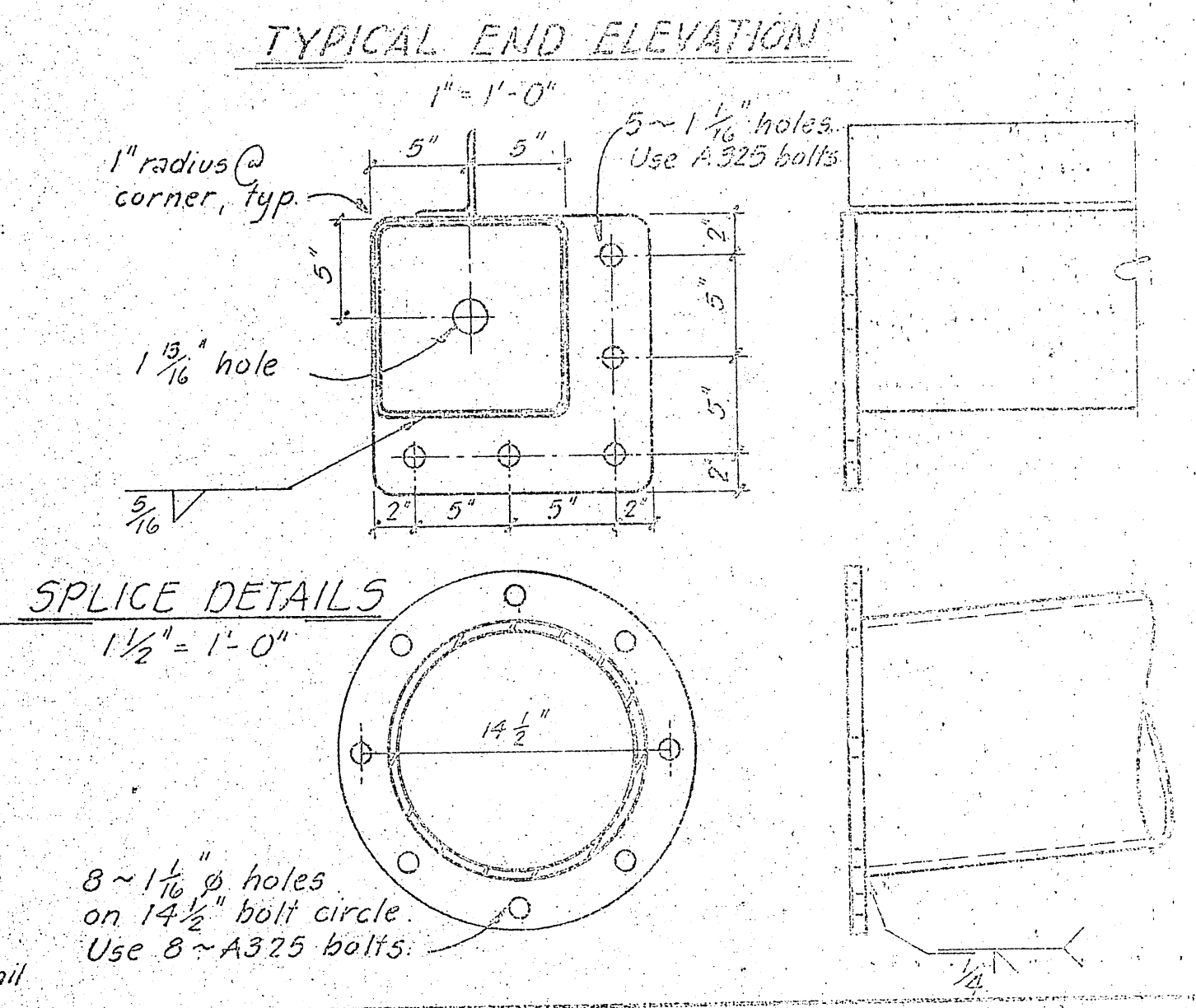
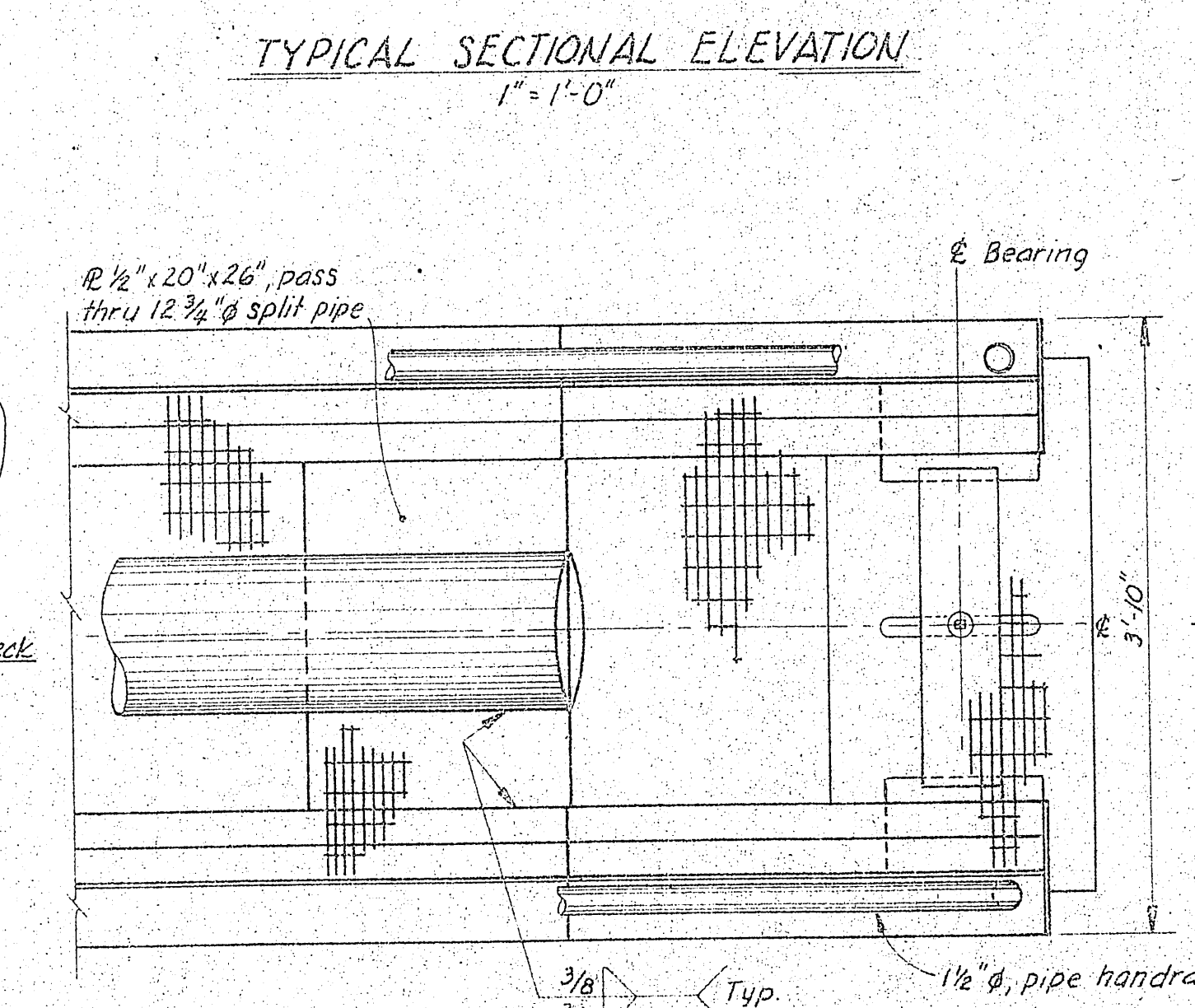
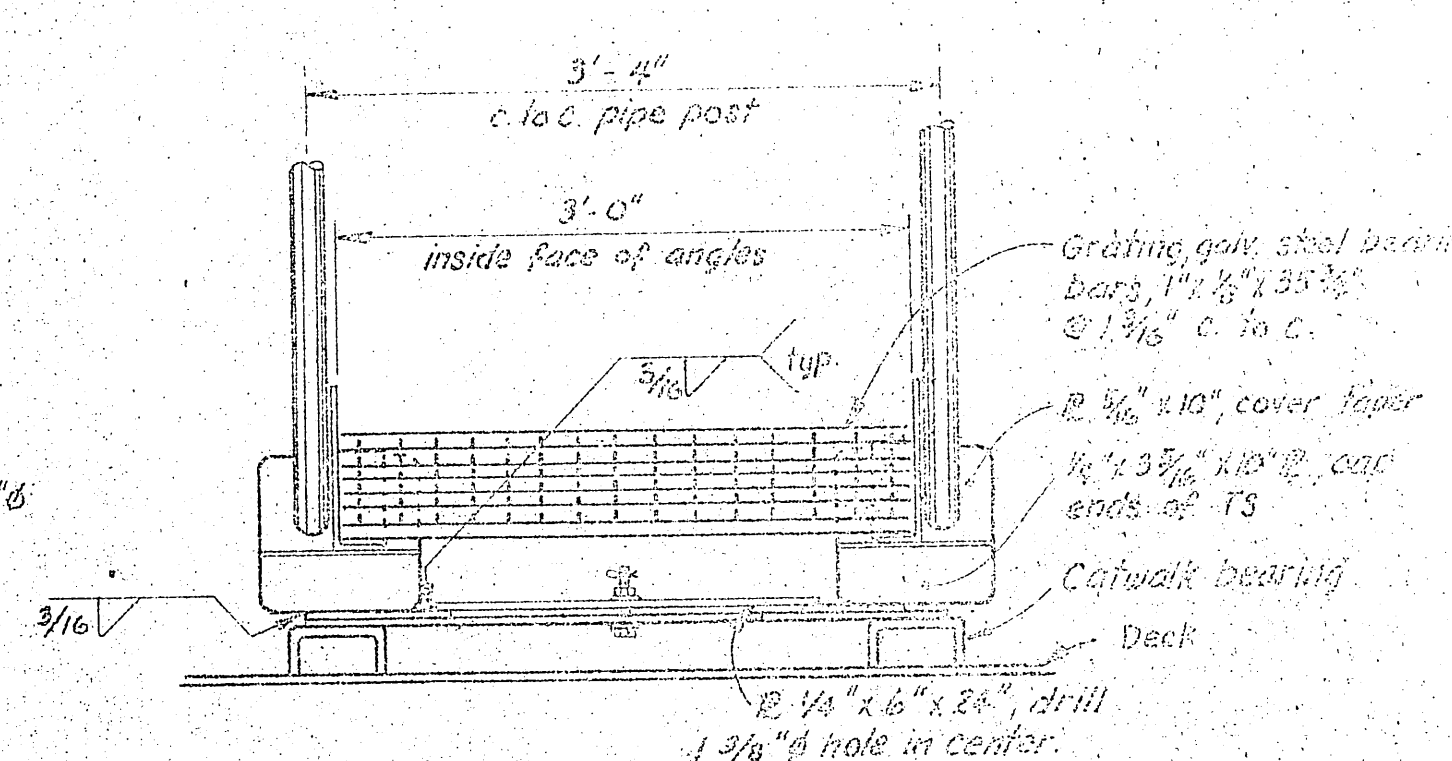
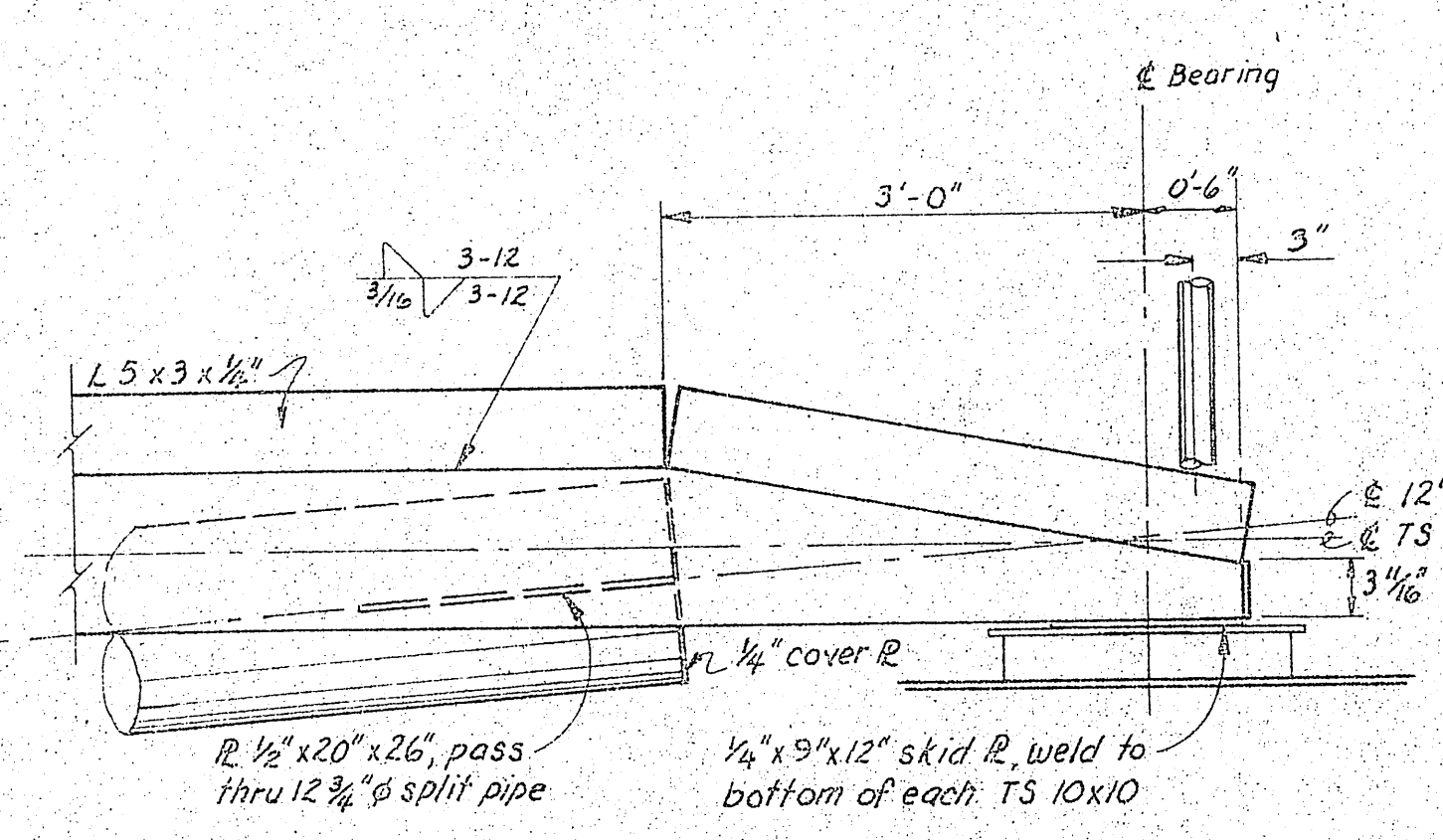
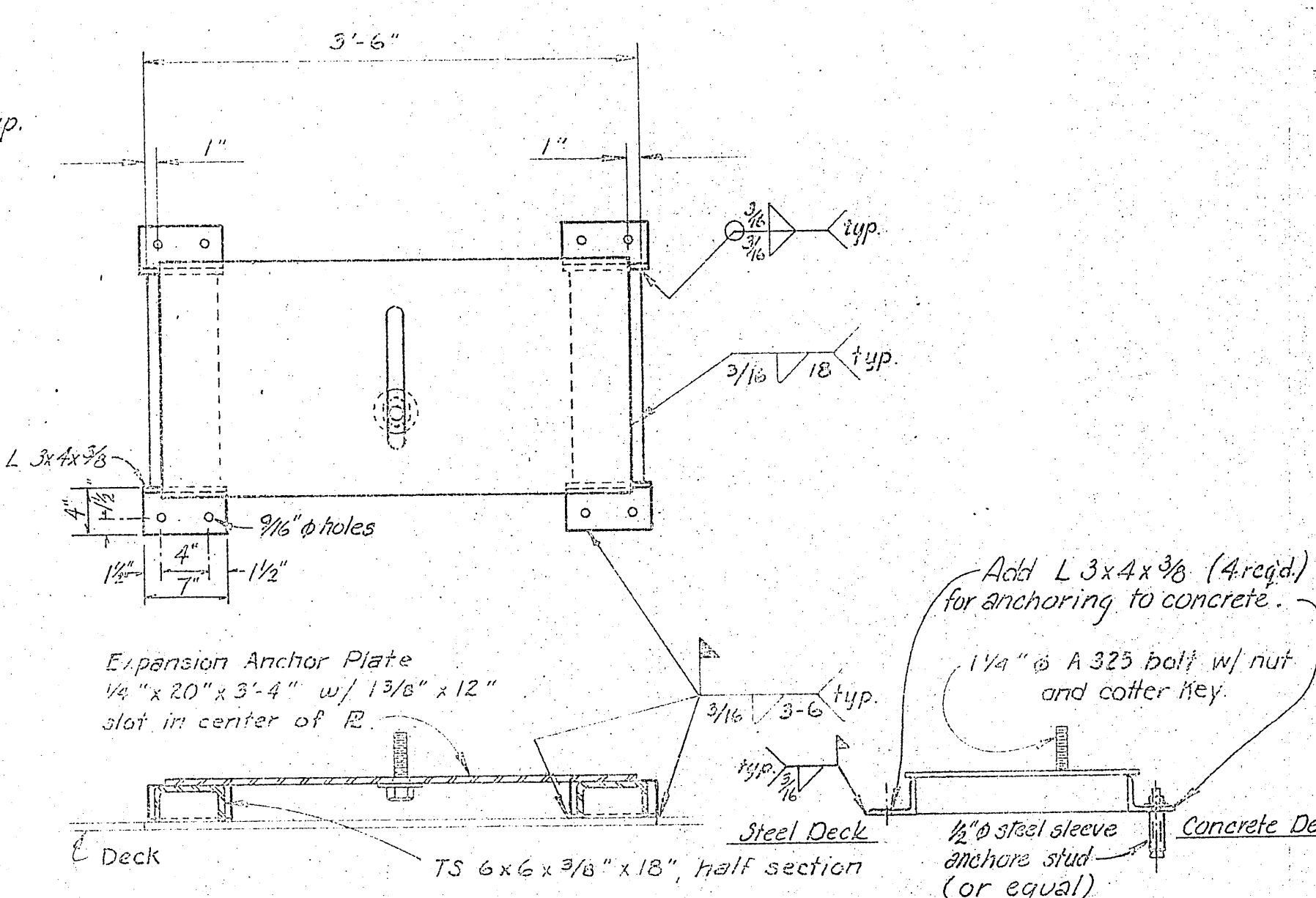
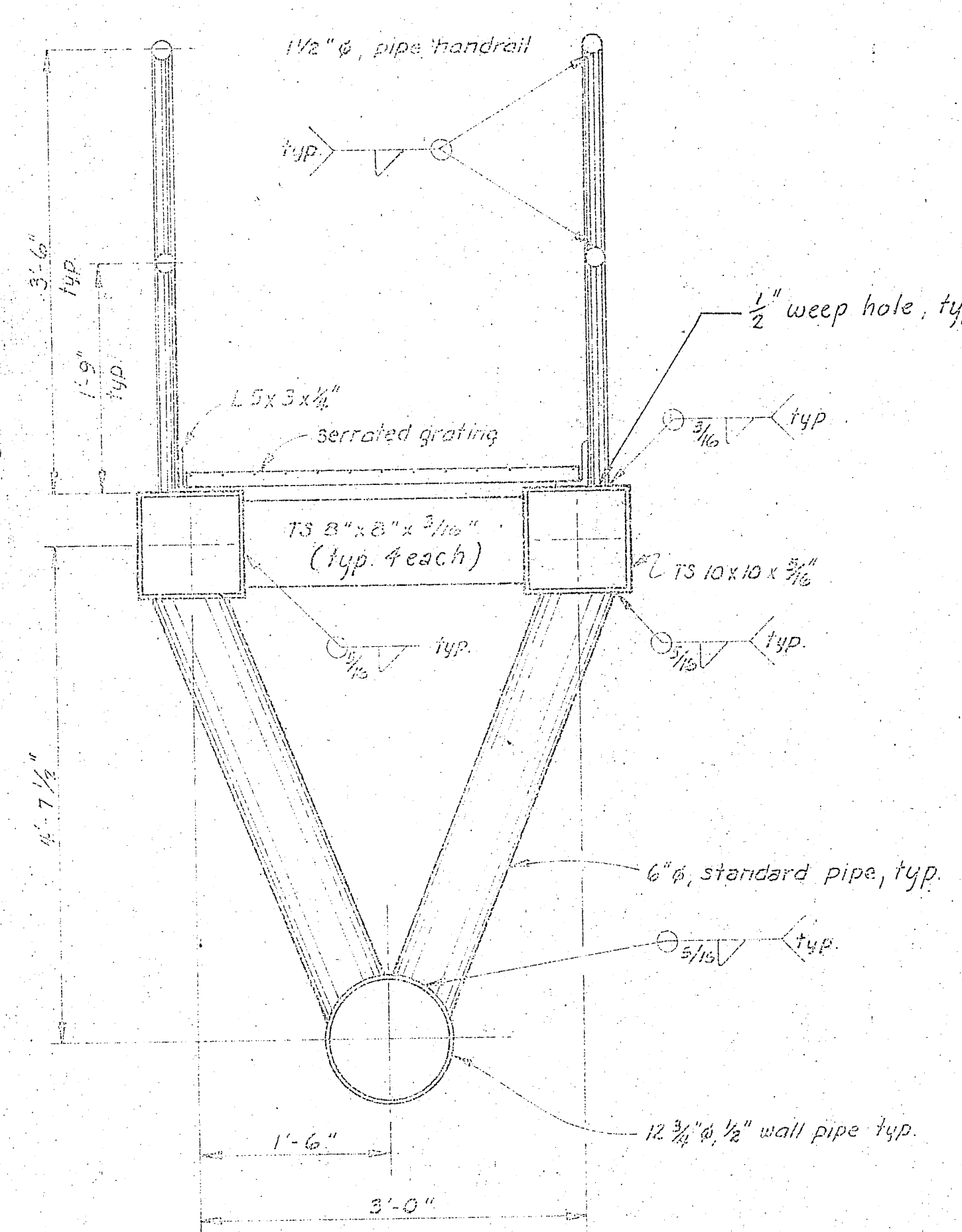
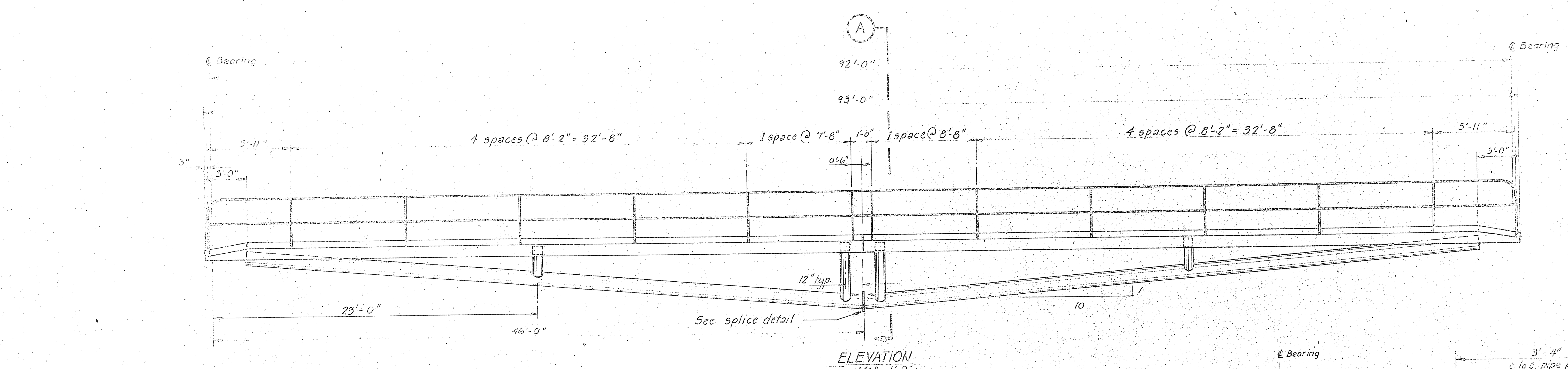


SECTION C-C
(3/4" = 1'-0")

AS BUILT

9/27/83

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		SITKA	ALASKA
		ALT. "A", CAP and WALER DETAIL	
SCALE	SURVEYED	APPROVED	
DESIGNED	DRAWN BS	Robert P. Beck	
CHECKED	DATE	James A. Lowell	
PROJECT NUMBER	R 91013	SHEET 6 OF 7	



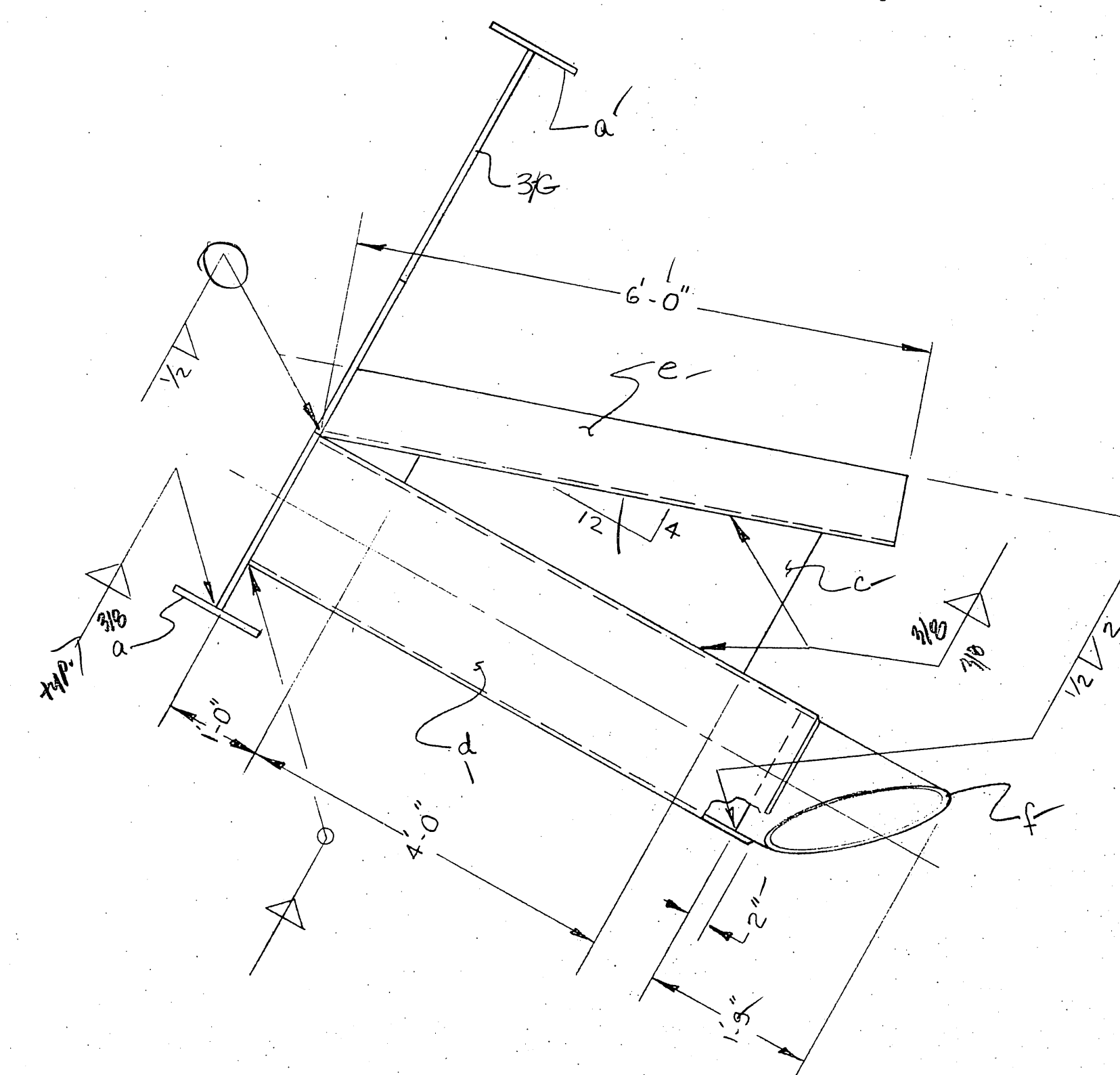
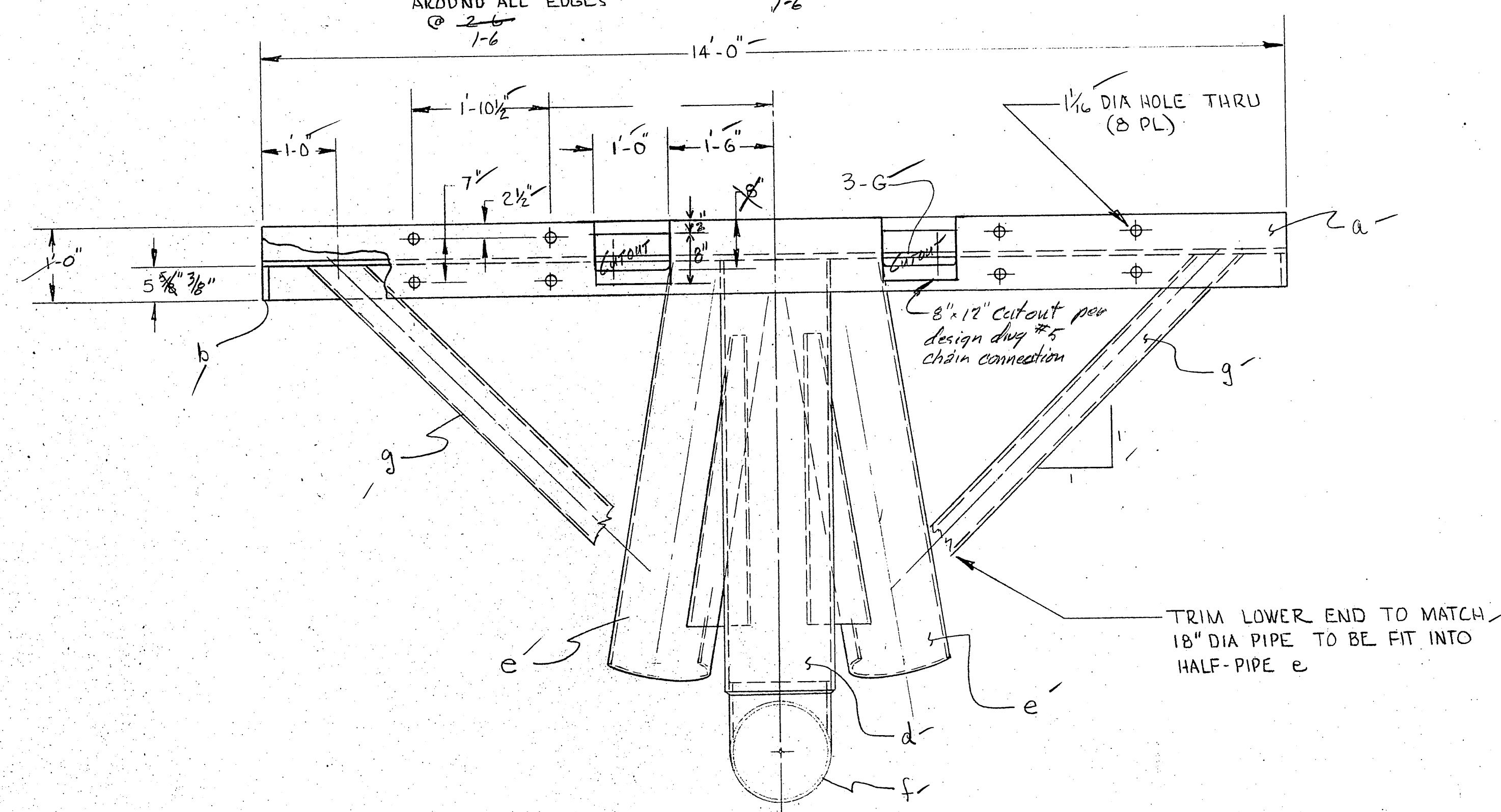
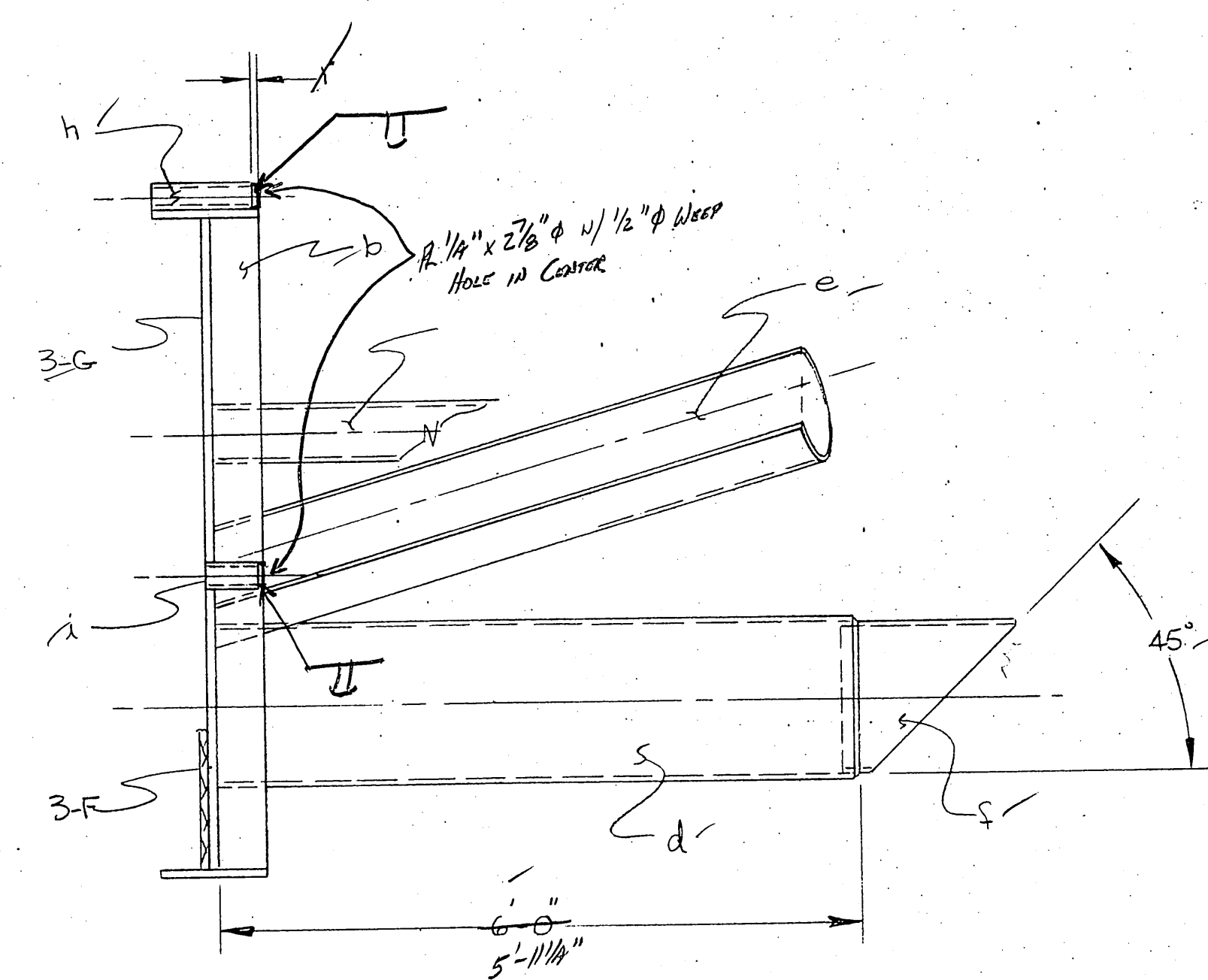
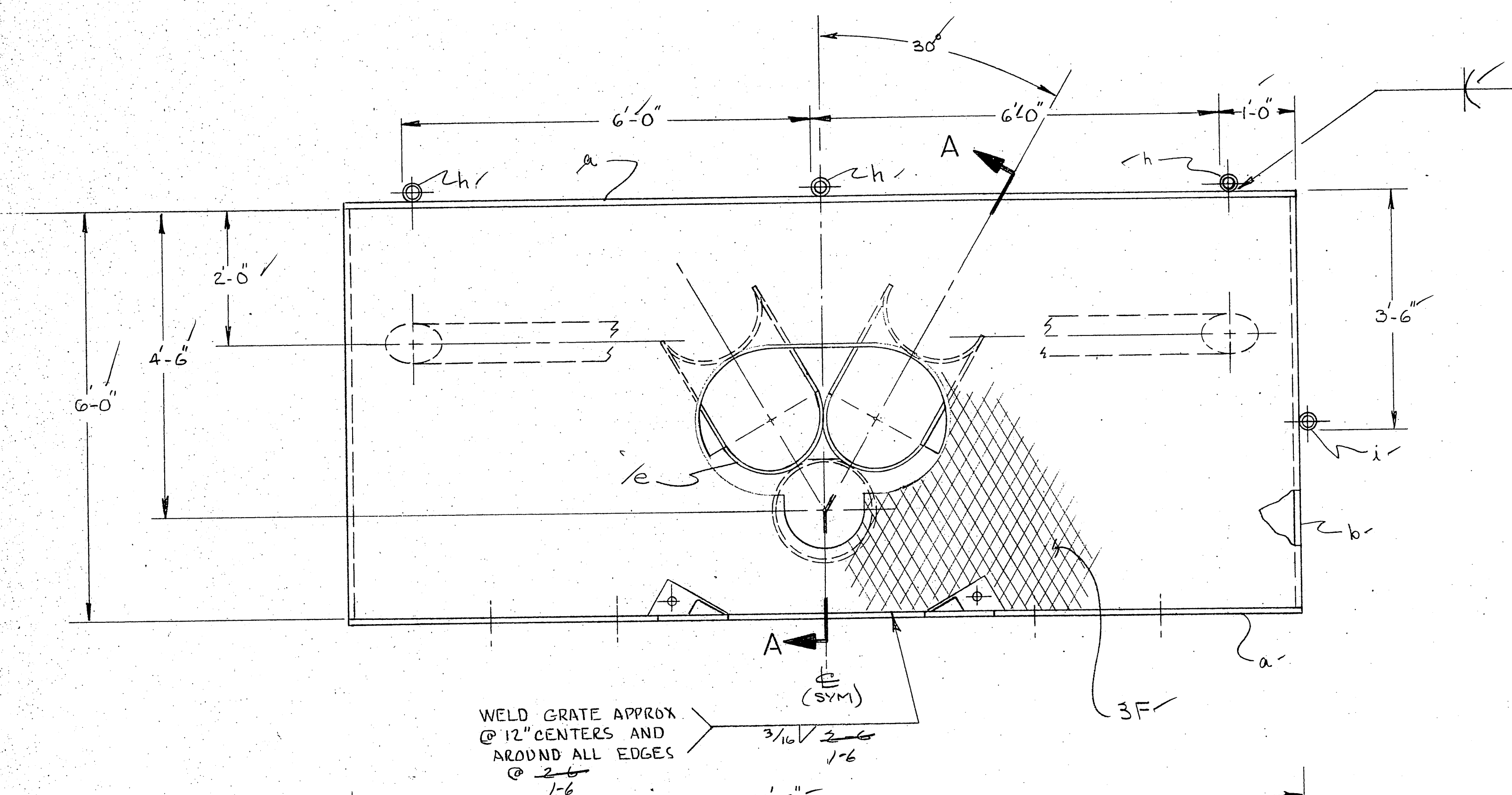
SECTION A
1" = 1'-0"

CATWALK BEARING DETAILS
1" = 1'-0"

TYPICAL SECTIONAL PLAN
1" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		ALT. "C" 93'-0" CATWALK & DETAILS	
SCALE: As Noted	SURVEYED: TS 7/80	APPROVED: Robert P. Beck, CHIEF OF DESIGN	
DESIGNED: JAL/HM	DRAWN: TS 7/80	PROJECT NUMBER: R91013	
CHECKED:	DATE:	SHEET 7 OF 7	

Notes:
Grating shall be galv. steel serrated edge.
1" x 1/8" bearing bars, 1 1/16" OC, 1" x 1/8" cross bars, 4" OC. Weld grating to angle.
All splices in tension or compression components of structure to be double bevel full penetration.
The fully erected catwalk structure shall only be lifted @ the quarter points.
Weep all tubes to lower chord.
Weep all handrail posts.
Camber 3" @ midpoint.



1. MAKE FROM 18" ^{IP} ~~OD~~ x 1/2 PIPE - OPEN INSIDE RADIIUS TO APPROX. CONFORM TO 18 OD PIPE.

2. MAKE FROM 3/8 PLATE

-	1	3-G	FLOOR PLATE				$\frac{3}{4}" \times 6'-0" \times 14'-0"$
-	+	3-F	GRATING				
-	1	i	PIPE w/ $\frac{1}{4}" \times 2\frac{7}{8}'' \phi R_2$	w/ $\frac{1}{2}' \phi$ clear holes w/ center		SCH 40 x 0'-5" $\frac{9}{8}$	
-	3	h	PIPE " "	" "	" "	SCH 40' x 0'-10'-0" $\frac{11}{8}$	
-	2	g	PIPE			6" SCH 40 x 7'-0" (APPROX)	
-	1	f	PIPE	[2]		17" O.D. x $\frac{3}{8}'' \times 1'-5''$	
-	2	e	PIPE - HALF	[1]		18" O.D. x $\frac{1}{2}'' \times 6'-0''$	
-	1	d	PIPE			18" O.D. x $\frac{1}{2}'' \times 6'-0''-5'-11\frac{1}{4}''$	
-	2	c	WEB		$\frac{1}{2}'' \phi$	x 20" x 4'-0" -	
-	2	b	END PLATE		ϕ	$\frac{3}{4}" \times 5\frac{3}{8}'' \times 6'-0''$	
-	?	a	SIDE PLATE	A-36	ϕ	$\frac{3}{4}" \times 12" \times 14'-0''$	

✓ MK 2-A DOLPHIN CAP ASSY

SECTION A-A

CHECKED
A/15/83
m.H.

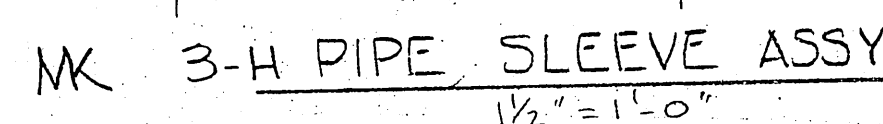
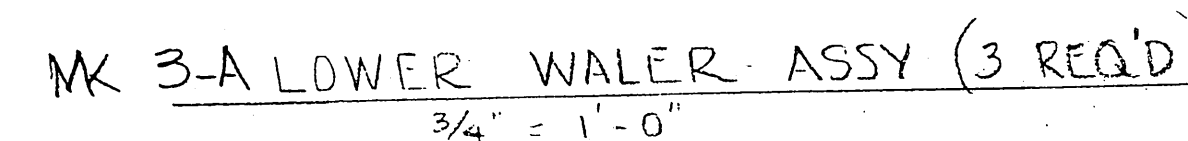
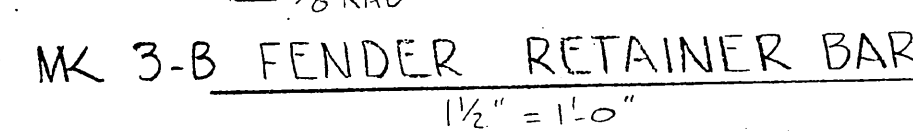
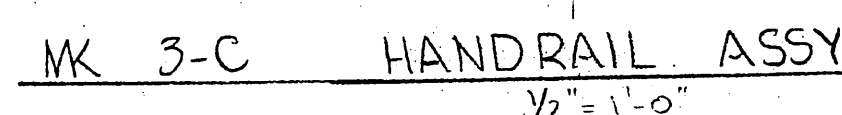
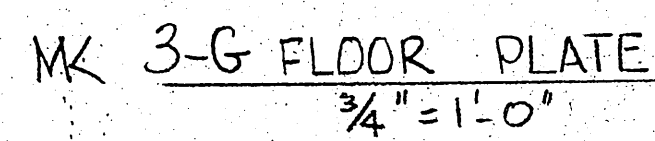
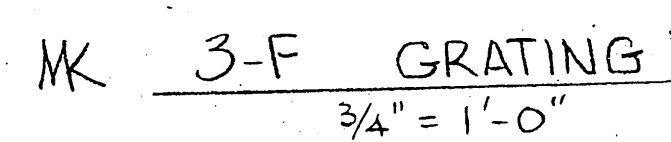
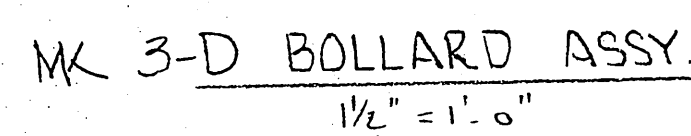
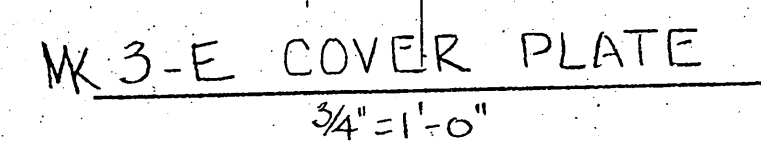
RECEIVED
APR 14 1983

Division of Harbor Design and Construction

Meyer's

SITKA DOLPHIN
PROJECT No. R 91013
W.S. CONSTRUCTION CO.

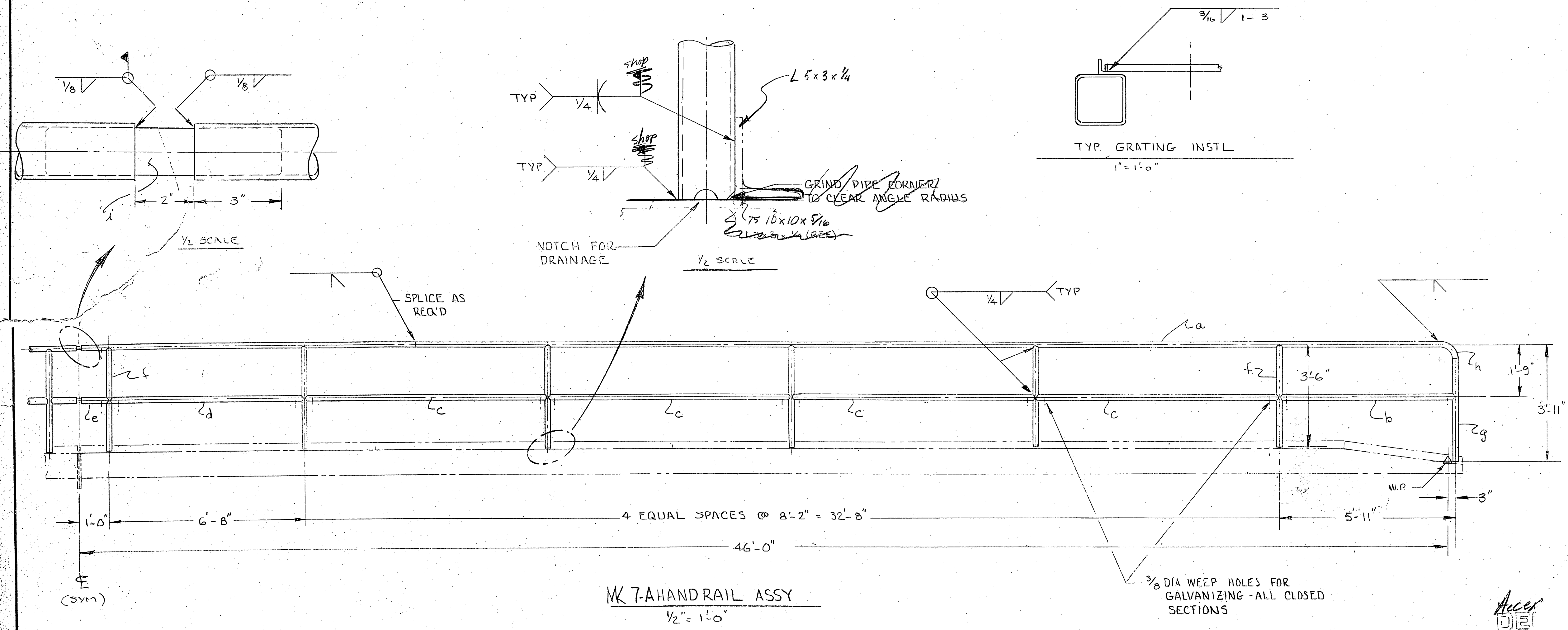
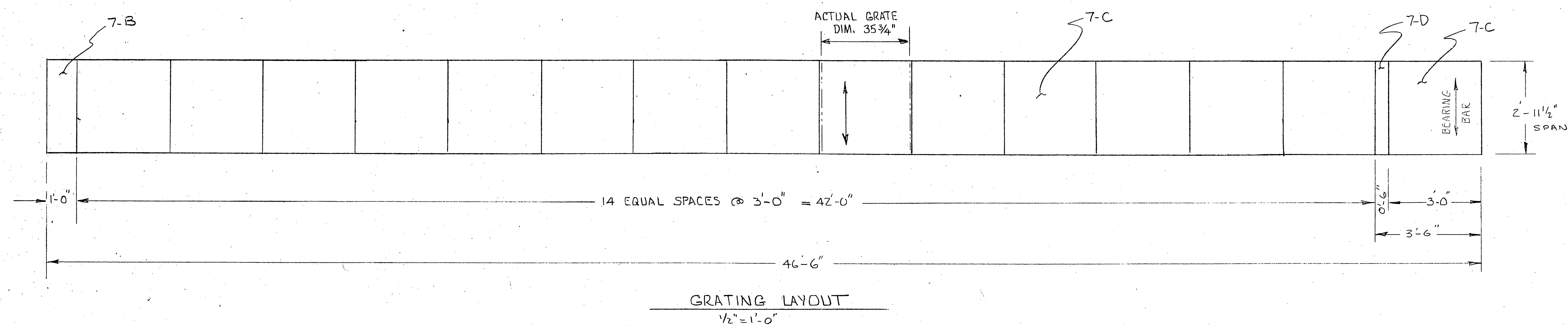
		DWG NO	SI-375-83
SCALE	3/4" = 1'-0"		SH 2 OF -



QTY.		TOLERANCE		LIST OF MATERIAL		 Meyers Industries Inc. Metal Fabricators for Industry	
.X		.06		 Meyers Industries Inc. Metal Fabricators for Industry		SITKA DOLPHIN PROJECT No. R 91013 W.S. CONSTRUCTION CO.	
.XX		.03					
.XXX		.010					
FRACTIONS		1/16		 Meyers Industries Inc. Metal Fabricators for Industry		SITKA DOLPHIN PROJECT No. R 91013 W.S. CONSTRUCTION CO.	
ANGLES		1°					
FINISH		✓					
DRAWN		P.J.M.		DATE		3-27-83	
CHECKED		[Signature]		DATE		4-4-83	
ENGR.				DWG NO		SI-375-83	
APPR.				SCALE		NOTED	
						SH 3 OF 7	

Accepted
2/10/83
RECEIVED
APR 14 1983
Division of Harbor Design
and Construction

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



NOTE: GRATING TO HAVE 1" x 1/8" BEARING BARS SPACED AT 1 3/16" WITH 1/4" CROSS BARS AT 4" WT APPROX 1.15 LBS/FT² WELD GRATING PANEL IN PLACE PRIOR TO GALVANIZING

NOTE: FABRICATE HANDRAIL IN LENGTHS APPROPRIATE FOR GALVANIZERS FACILITIES, 46' LONG IF POSSIBLE SHOP SPLICE AS REQ'D

