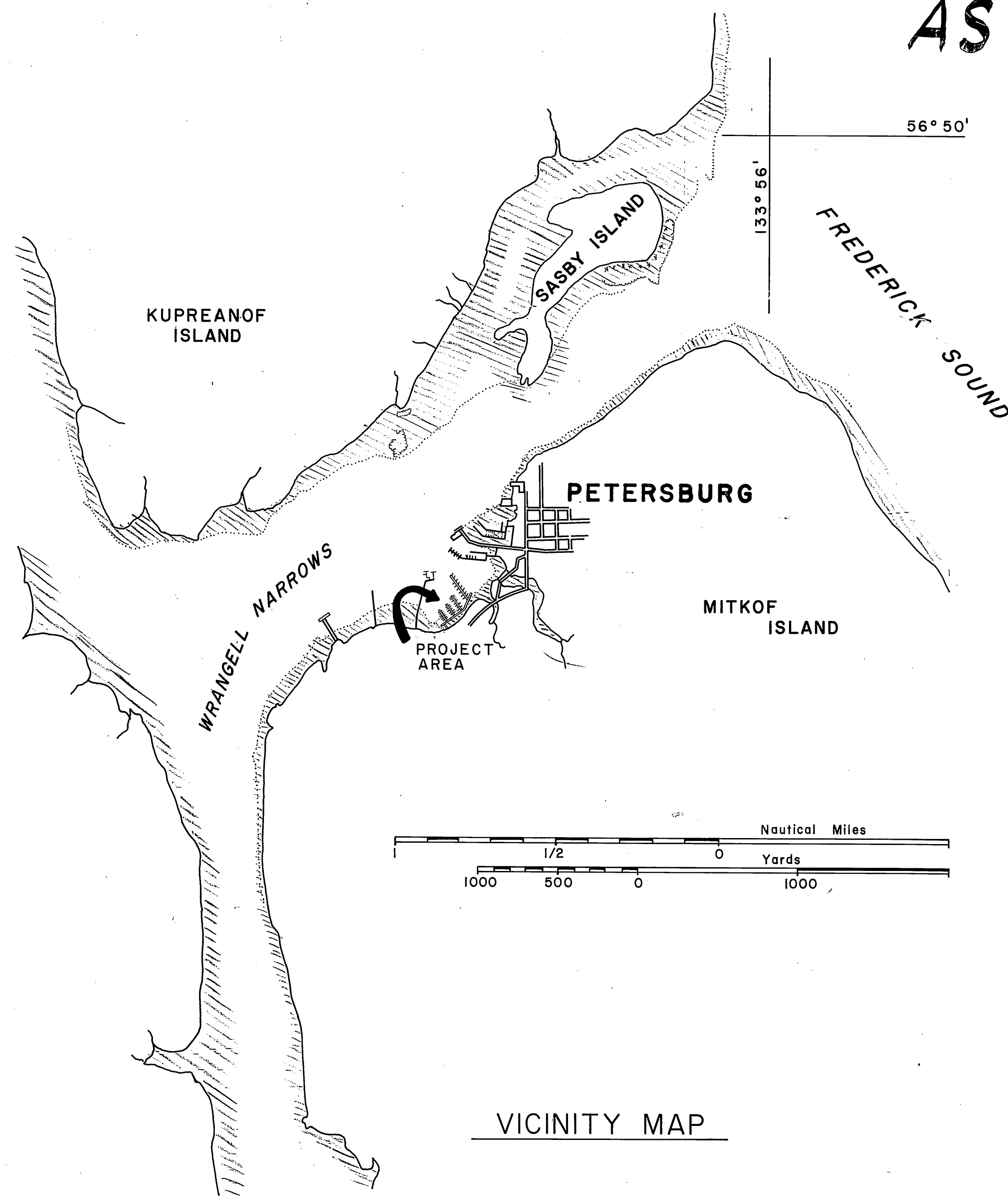


PETERSBURG HARBOR FACILITIES

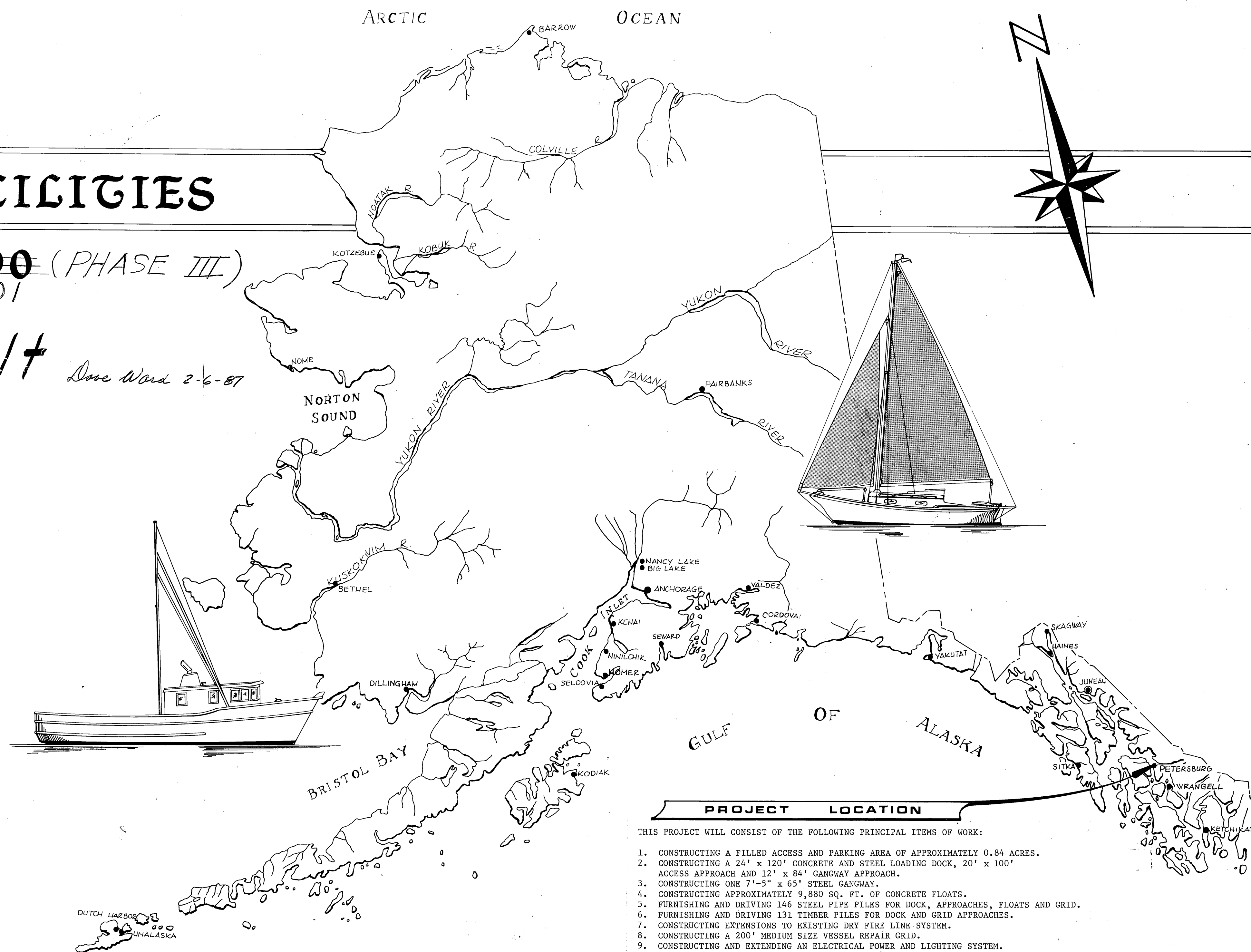
PROJECT NO. K-78190 (PHASE III)
31901

AS BUILT

Date Ward 2-6-87



VICINITY MAP



PROJECT LOCATION

THIS PROJECT WILL CONSIST OF THE FOLLOWING PRINCIPAL ITEMS OF WORK:

1. CONSTRUCTING A FILLED ACCESS AND PARKING AREA OF APPROXIMATELY 0.84 ACRES.
2. CONSTRUCTING A 24' x 120' CONCRETE AND STEEL LOADING DOCK, 20' x 100' ACCESS APPROACH AND 12' x 84' GANGWAY APPROACH.
3. CONSTRUCTING ONE 7'-5" x 65' STEEL GANGWAY.
4. CONSTRUCTING APPROXIMATELY 9,880 SQ. FT. OF CONCRETE FLOATS.
5. FURNISHING AND DRIVING 146 STEEL PIPE PILES FOR DOCK, APPROACHES, FLOATS AND GRID.
6. FURNISHING AND DRIVING 131 TIMBER PILES FOR DOCK AND GRID APPROACHES.
7. CONSTRUCTING EXTENSIONS TO EXISTING DRY FIRE LINE SYSTEM.
8. CONSTRUCTING A 200' MEDIUM SIZE VESSEL REPAIR GRID.
9. CONSTRUCTING AND EXTENDING AN ELECTRICAL POWER AND LIGHTING SYSTEM.
10. FURNISHING AND INSTALLING A 5,000 LB. HYDRAULIC DOCK CRANE.
11. REMOVING AND DISPOSING OF THE EXISTING TIMBER VESSEL REPAIR GRID.
12. SUPPLEMENT #1 BID ITEM CONSISTS OF ENLARGING ITEM 2, 24' x 120' LOADING DOCK TO 36' x 120' IN SIZE.
13. SUPPLEMENT #2 CONSISTS OF DELETING WEST TIMBER GRID APPROACH AND SUBSTITUTING A STEEL VEHICLE APPROACH.
14. SUPPLEMENT #3 CONSISTS OF MISCELLANEOUS ITEMS OF MAINTENANCE WORK.

61163 HANDRAIL ADDITIONS

INDEX TO SHEETS

1. TITLE SHEET	26. FLOAT LAYOUTS
2. PROJECT LAYOUT	27. GNGWY. FLOAT GEOMETRICS
3. DOCK & FILL CONTROL	28. TYP. 8' & 10' FLOAT UNITS
4. TYP. FILL AREA X-SECTION	29. TYP. STALL FLOAT DETAILS
5. CAP LAYOUT & MISC.	32. PILE COLLAR DETAILS
6. CAP DETAILS	33. MISC. FLOAT DETAILS
9. DIAPHRAGM DETAILS	34. FLOAT "F" INT. PILE LOCATIONS
10. CONC. DECK PANEL DETAILS	35. FLOAT LAYOUT - BY TYPE
14. CURB RAIL LAYOUT & DET.S	36. UTILITY TRENCH INTERSECT.S
15. WALE DETAILS	37. DRY FIRE LINE DETAILS + D.F.R.
16. MISC. DETAILS	38. GRID DETAILS
17. LAYOUTS FOR SUPPLEMENT # 1	41. ELECTRICAL DETAILS
18. GANGWAY DETAILS	42. DET. FOR SUPPLEMENTS #2 & #3

CONTRACTOR: TAMICO, INC.

Subcontractors: Channel Electric (electrical)
Rock-N-Road Const. (embankment)
Glacier Bear Fence Co. (guardrail)
Kaspao Corp. (stripping)

Begin const: Oct. 29, 1984

Finish: Sept. 30, 1986

Project Engr: John Edwards - Dave Ward

FROM NOAA CHART NO. 17375

STATE
OF
ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

S.E. REGION
DESIGN & CONSTRUCTION

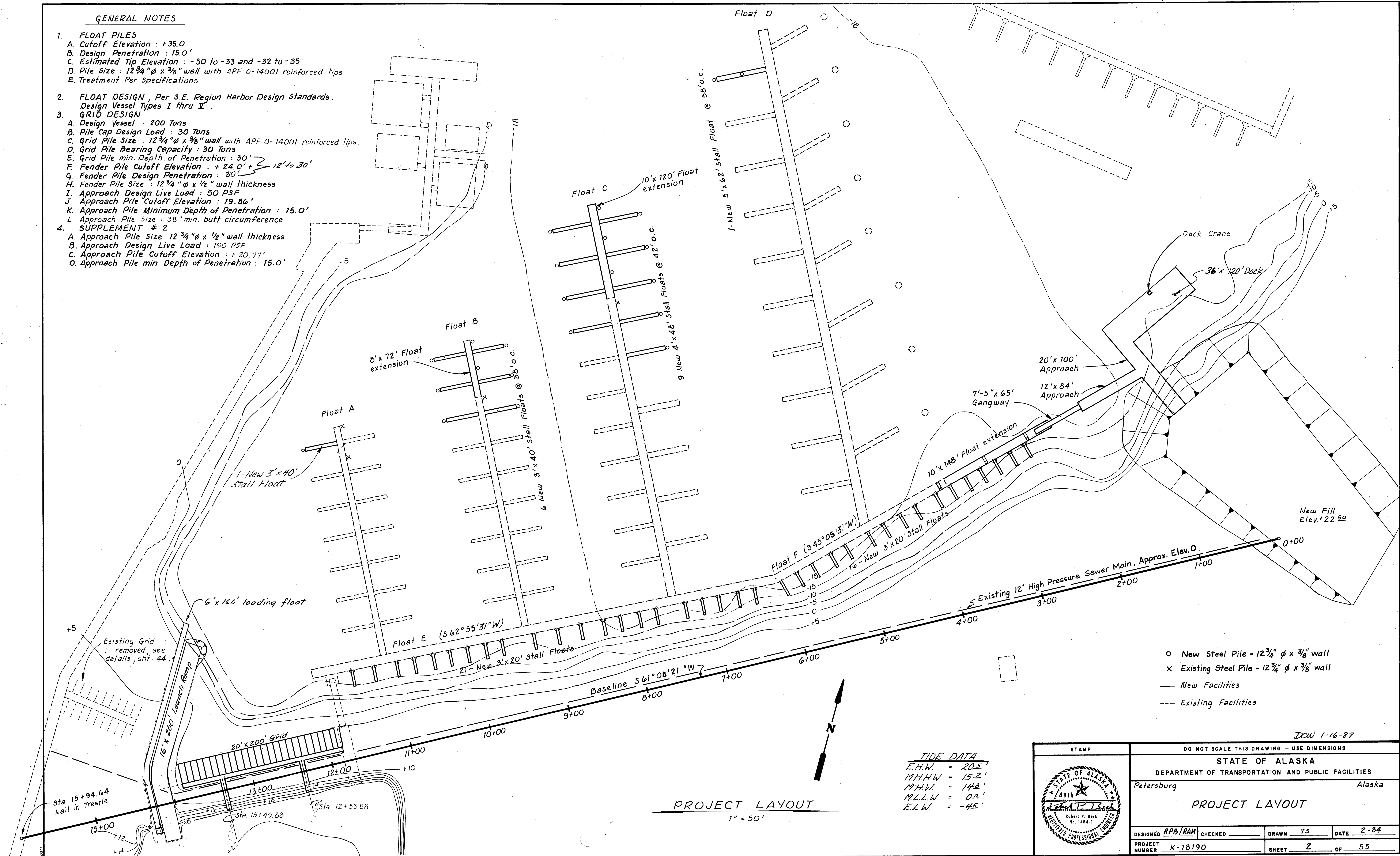
APPROVED

RECOMMEND
FOR APPROVAL
GROUP DESIGN CHIEF

SHEET 1 OF 65 63

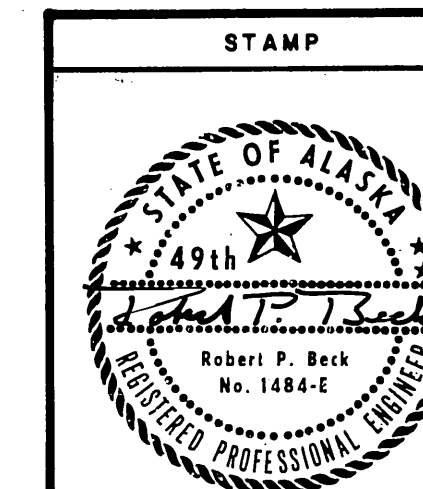
GENERAL NOTES

1. FLOAT PILES
 - A. Cutoff Elevation : +35.0
 - B. Design Penetration : 15.0'
 - C. Estimated Tip Elevation : -30 to -33 and -32 to -35
 - D. Pile Size : 12 3/4" ϕ x 3/8" wall with APF 0-14001 reinforced tips
 - E. Treatment Per Specifications
2. FLOAT DESIGN, Per S.E. Region Harbor Design Standards.
Design Vessel Types I thru V.
3. GRID DESIGN
 - A. Design Vessel : 200 Tons
 - B. Pile Cap Design Load : 30 Tons
 - C. Grid Pile Size : 12 3/4" ϕ x 3/8" wall with APF 0-14001 reinforced tips.
 - D. Grid Pile Bearing Capacity : 30 Tons
 - E. Grid Pile min. Depth of Penetration : 30'
 - F. Fender Pile Cutoff Elevation : +24.0' + 12' to 30'
 - G. Fender Pile Design Penetration : 30'
 - H. Fender Pile Size : 12 3/4" ϕ x 1/2" wall thickness
 - I. Approach Design Live Load : 50 PSF
 - J. Approach Pile Cutoff Elevation : 19.86'
 - K. Approach Pile Minimum Depth of Penetration : 15.0'
 - L. Approach Pile Size : 38" min. butt circumference
4. SUPPLEMENT # 2
 - A. Approach Pile Size 12 3/4" ϕ x 1/2" wall thickness
 - B. Approach Design Live Load : 100 PSF
 - C. Approach Pile Cutoff Elevation : +20.77'
 - D. Approach Pile min. Depth of Penetration : 15.0'



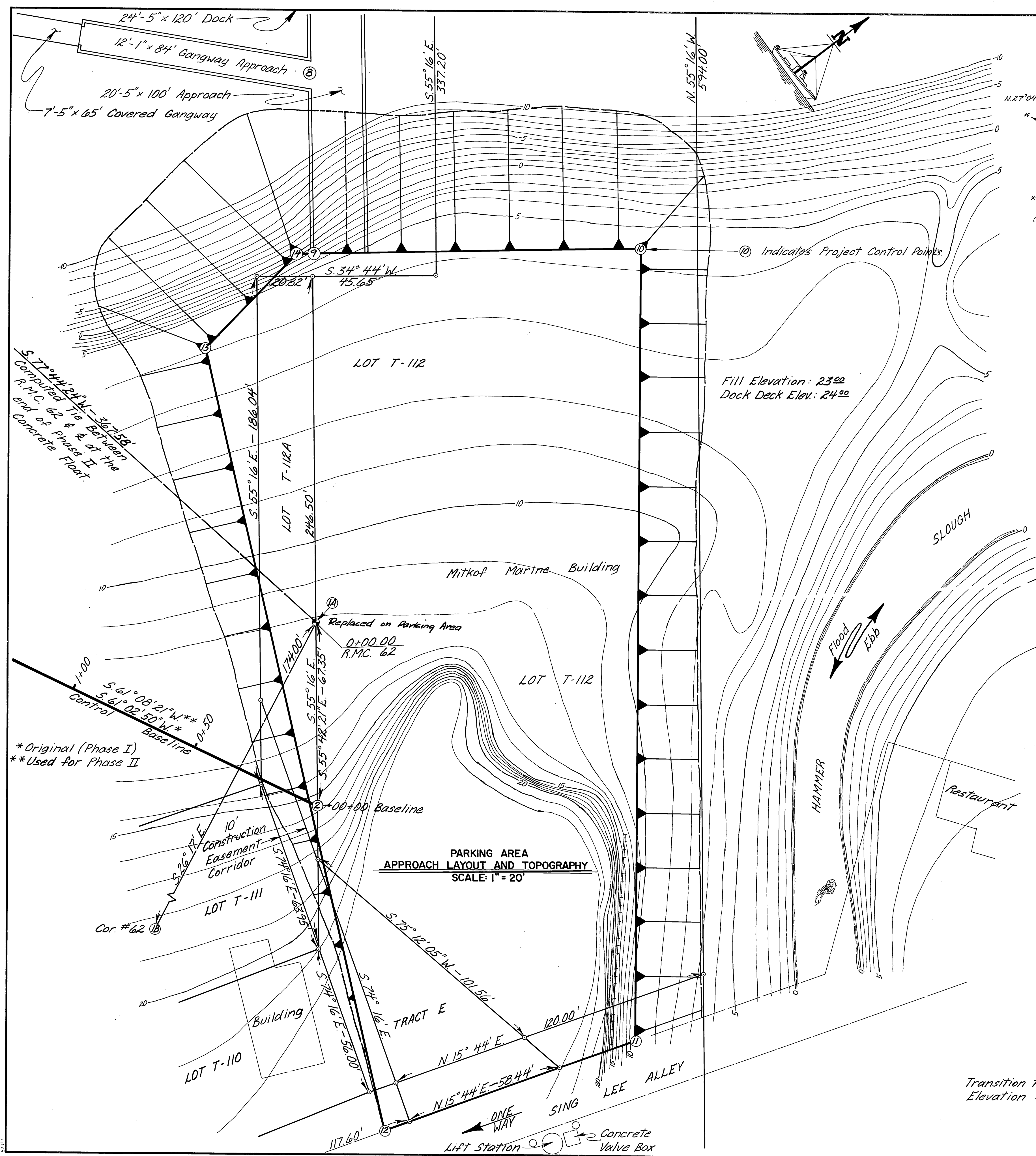
PROJECT LAYOUT
1" = 50'

TIDE DATA	
E.H.W.	= 20.5'
M.H.H.W.	= 15.2'
M.H.W.	= 14.8'
M.L.L.W.	= 0.2'
E.L.W.	= -4.5'

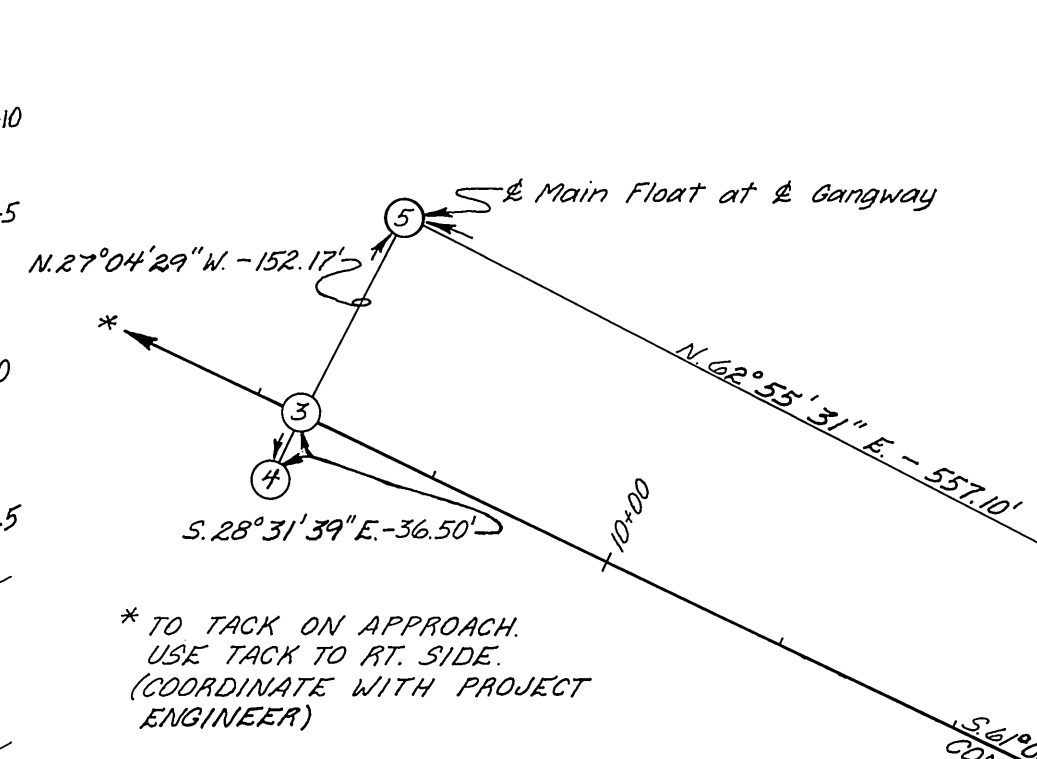


DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
PROJECT LAYOUT			
DESIGNED <i>RPB/RAM</i>	CHECKED _____	DRAWN <i>TS</i>	DATE <i>2-84</i>
PROJECT NUMBER <i>K-78190</i>		SHEET <i>2</i>	OF <i>55</i>

DCW 1-16-87

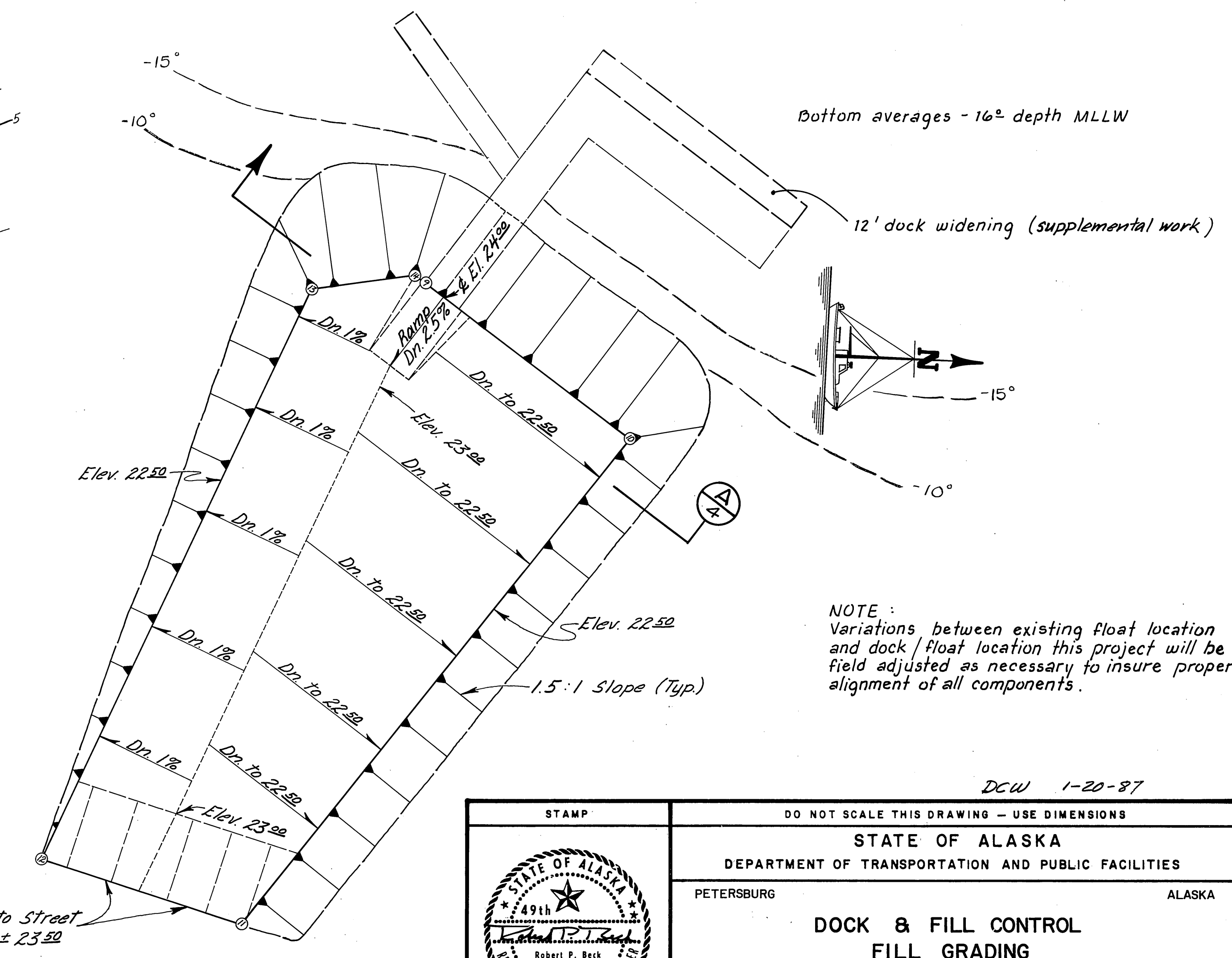


* Original (Phase I)
 ** Used for Phase II



COORDINATES FOR PROJECT CONTROL			
POINT	COORDINATES		DESCRIPTION
	LATITUDE	LONGITUDE	
1	10,037.96	9,944.33	R.M.C. # 62
2	9,881.42	10,021.41	CORNER # 62
3	10,000.00	10,000.00	STATION 00+00 CONTROL BASELINE
4	9,931.78	9,969.37	STATION 11+76.80 CONTROL BASELINE
5	9,940.01	9,986.79	E APPROACH - BEGINS
6	9,937.73	9,977.73	E MAIN FLOAT AT GANGWAY
7	9,929.07	9,943.78	E MAIN FLOAT AT POINT
8	9,929.89	9,925.15	E MAIN FLOAT AT END
9	10,153.12	9,779.00	E FLOAT APPROACH & LEFT SIDE DOCK (E FILE ROW)
10	10,115.55	9,833.00	BEGIN DOCK APPROACH (E LEFT FILE ROW)
11	10,213.89	9,901.18	E POINT, TOP OF FILL
12	10,041.82	10,135.86	E POINT, TOP OF FILL
13	9,947.49	10,109.29	E POINT, TOP OF FILL
14	10,062.76	9,837.74	E POINT, TOP OF FILL
15	10,110.34	9,829.40	E POINT, TOP OF FILL

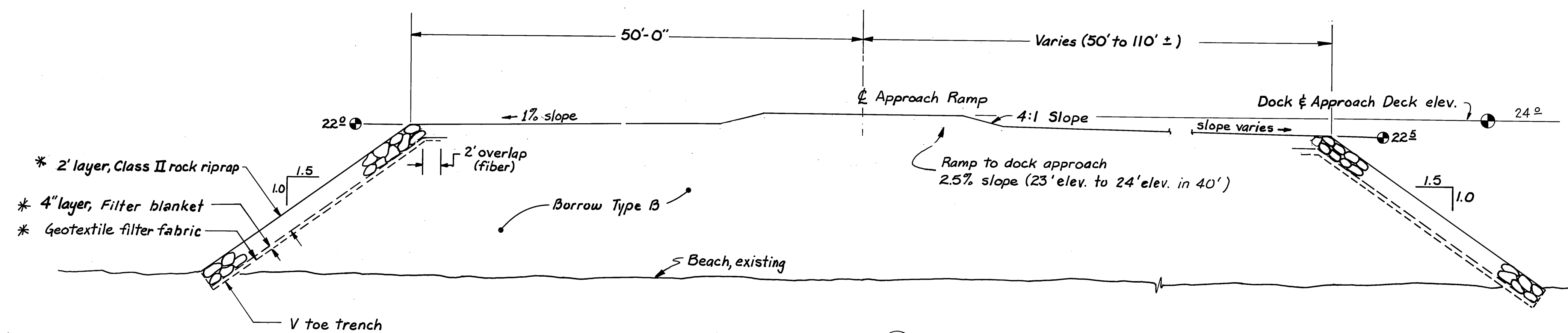
PROJECT CONTROL DATA
 SCALE: 1" = 100'



GRADING AND DRAINAGE PLAN
 SCALE: 1" = 40'

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG	ALASKA
DOCK & FILL CONTROL FILL GRADING			
DESIGNED R.B.	CHECKED	DRAWN J.M.	DATE
PROJECT NUMBER K-78190	SHEET 3		OF 55

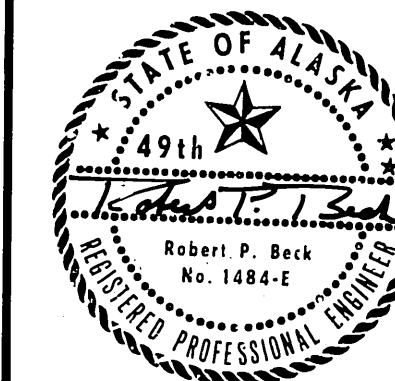
DCW 1-20-87



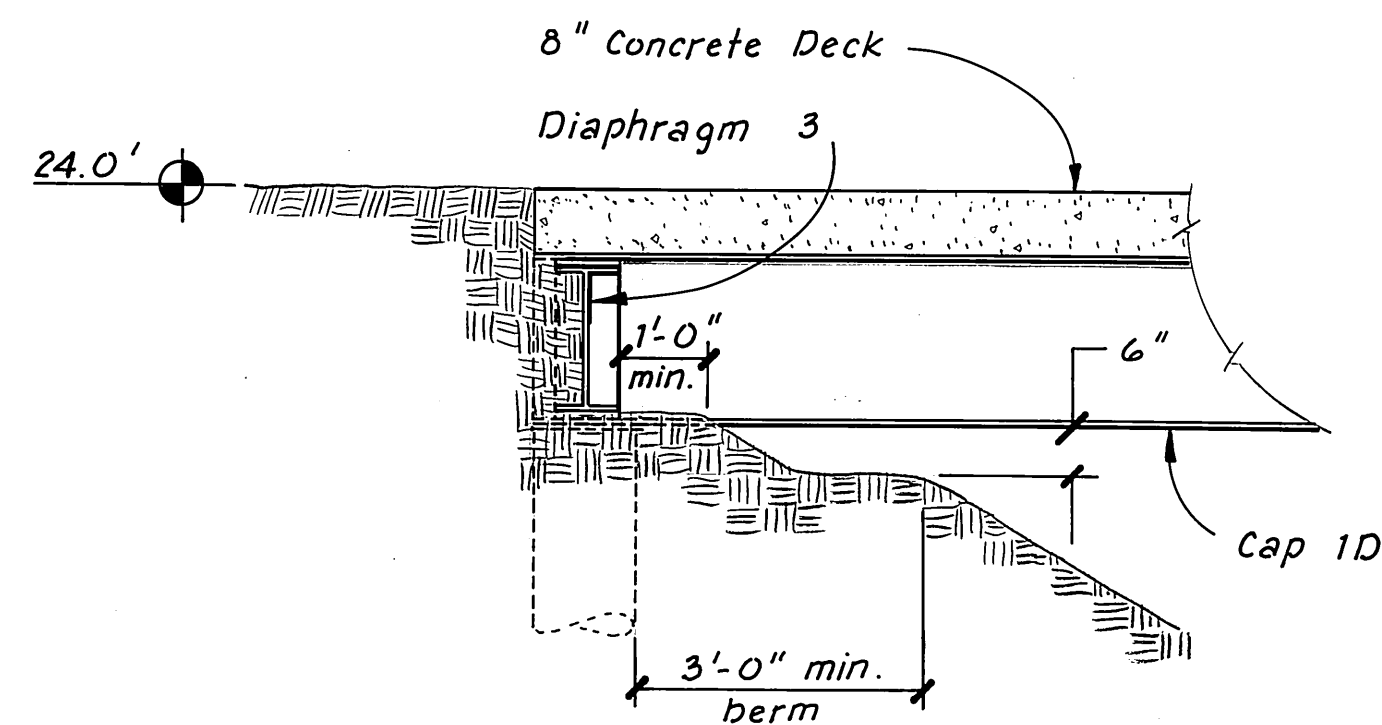
SECTION **(A)**
Scale: $\frac{1}{8}" = 1'-0"$

* See Specs., Section 203 - 2.01 for contractor elective construction option.

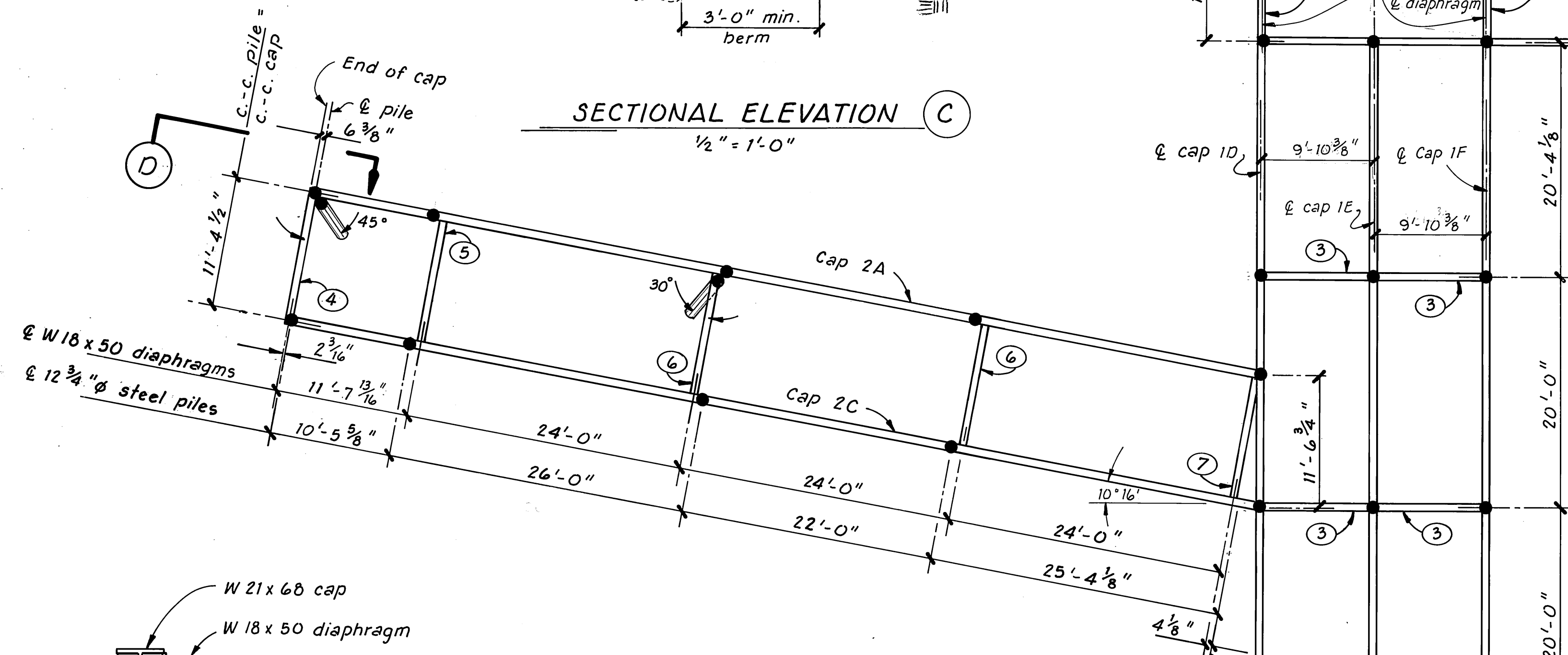
DCW 1-20-87	
DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg	Alaska
TYPICAL FILL AREA X-SECTION	
DESIGNED <u>RPB</u>	CHECKED _____
PROJECT NUMBER <u>K-78190</u>	DATE <u>2/84</u>
DRAWN <u>RTB</u>	SHEET <u>4</u> OF <u>55</u>



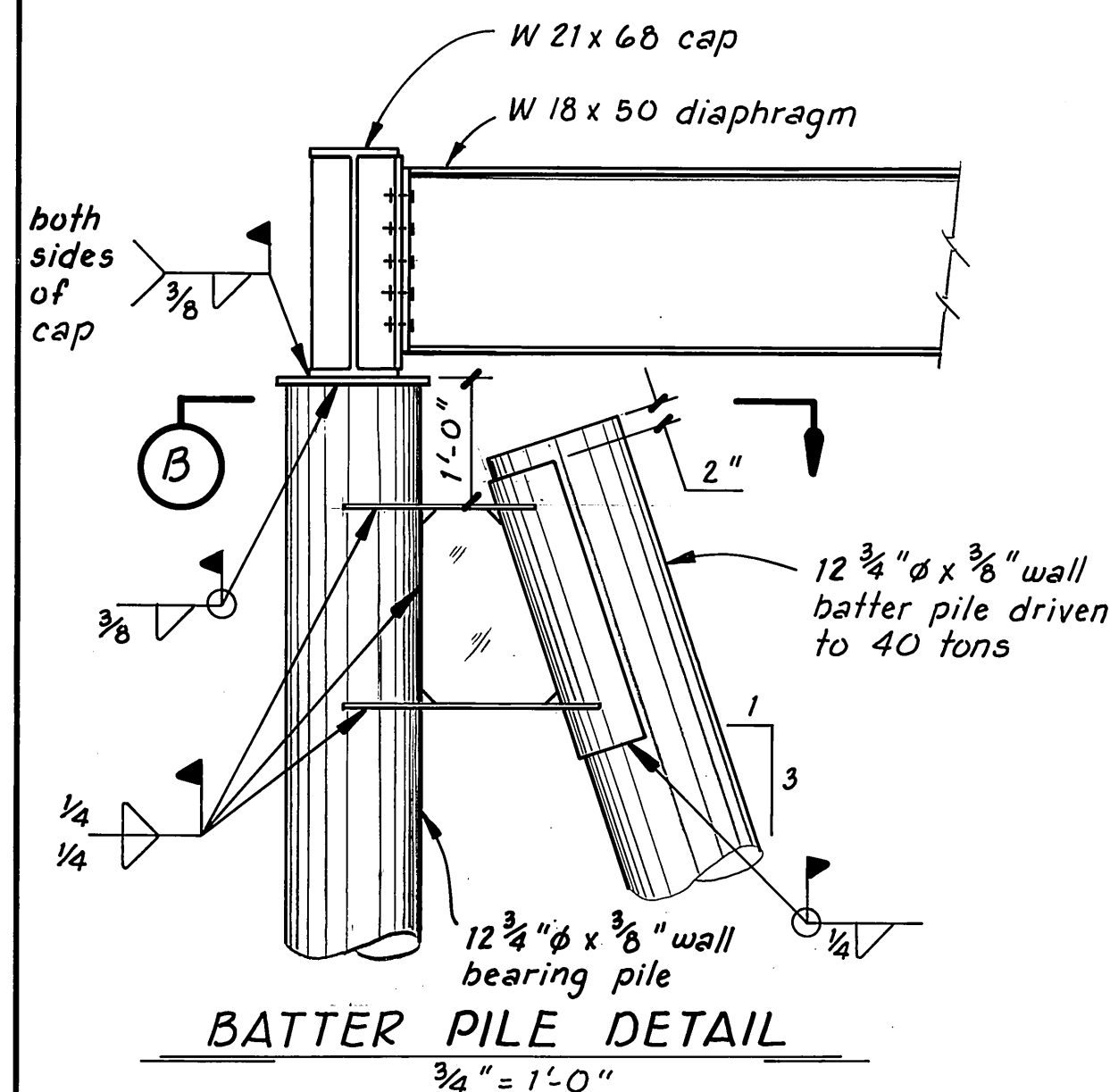
Note
At beginning of approach,
excavate as req'd. for caps
and piling. Rock slope
protection will have to be
temporarily moved in order to
accommodate driving piling for
first 60' of dock approach.



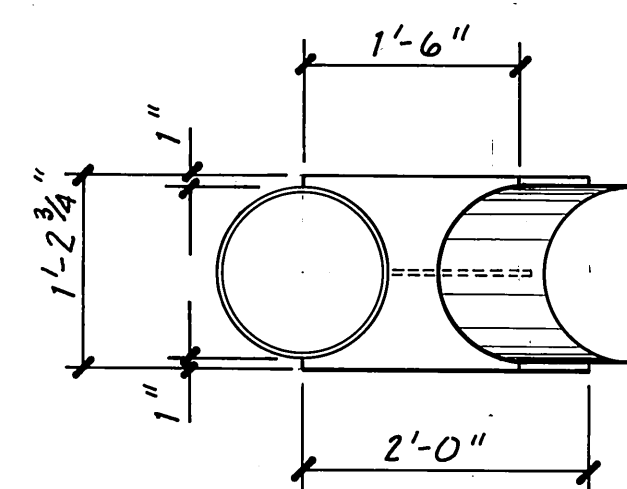
SECTIONAL ELEVATION C
1/2" = 1'-0"



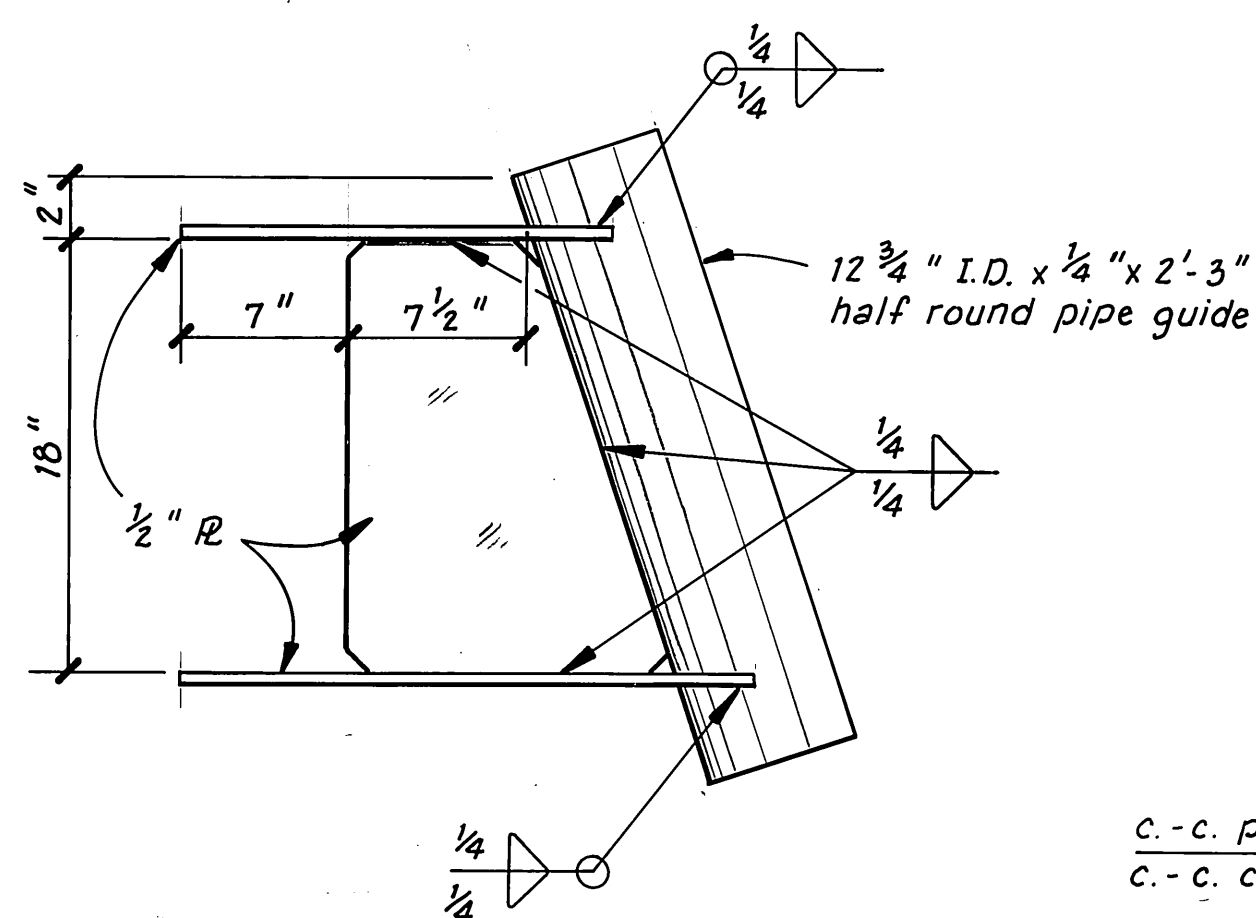
PILE & CAP LAYOUT
1/8" = 1'-0"



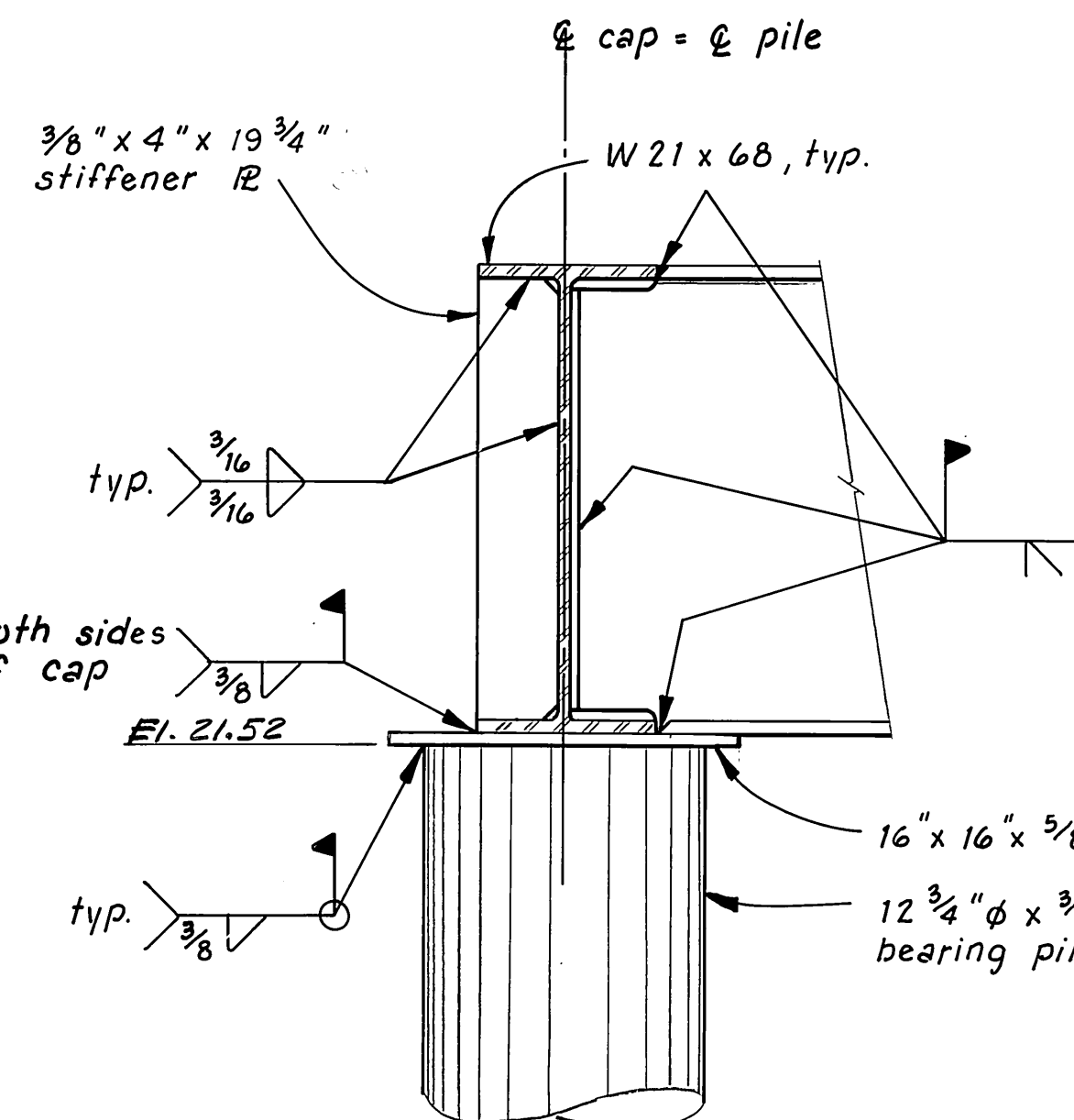
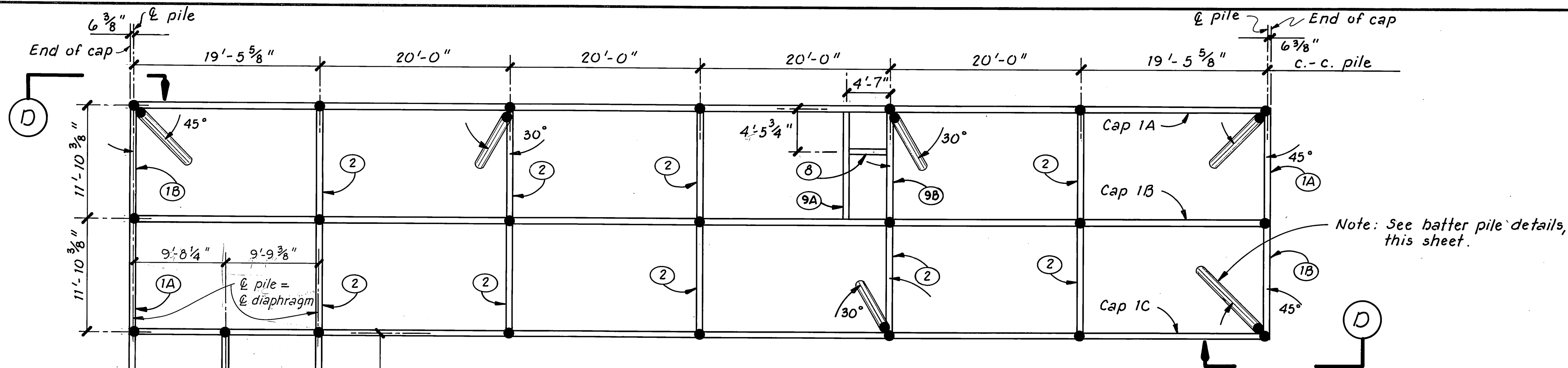
BATTER PILE DETAIL
3/4" = 1'-0"



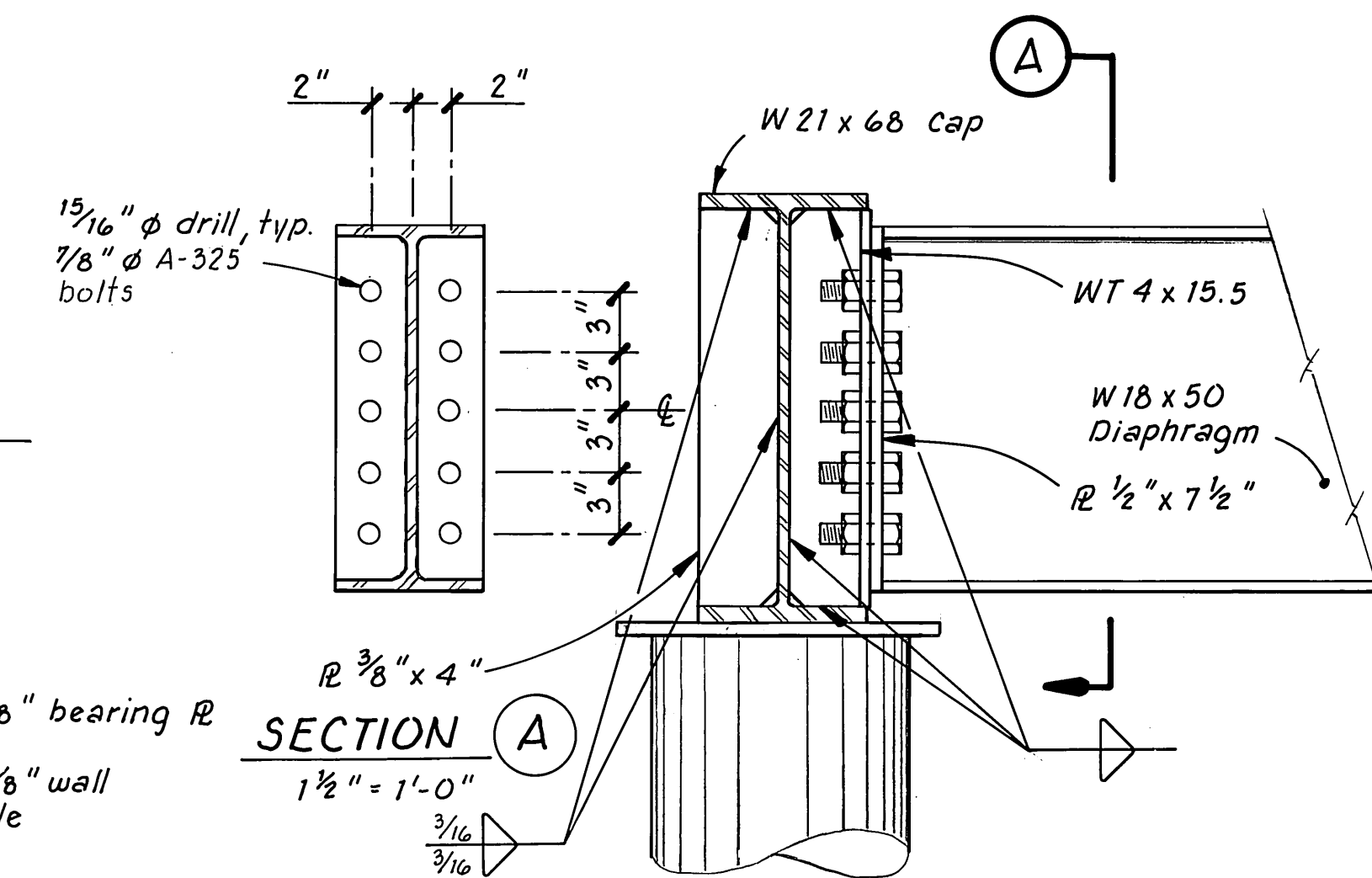
SECTIONAL PLAN B
3/4" = 1'-0"



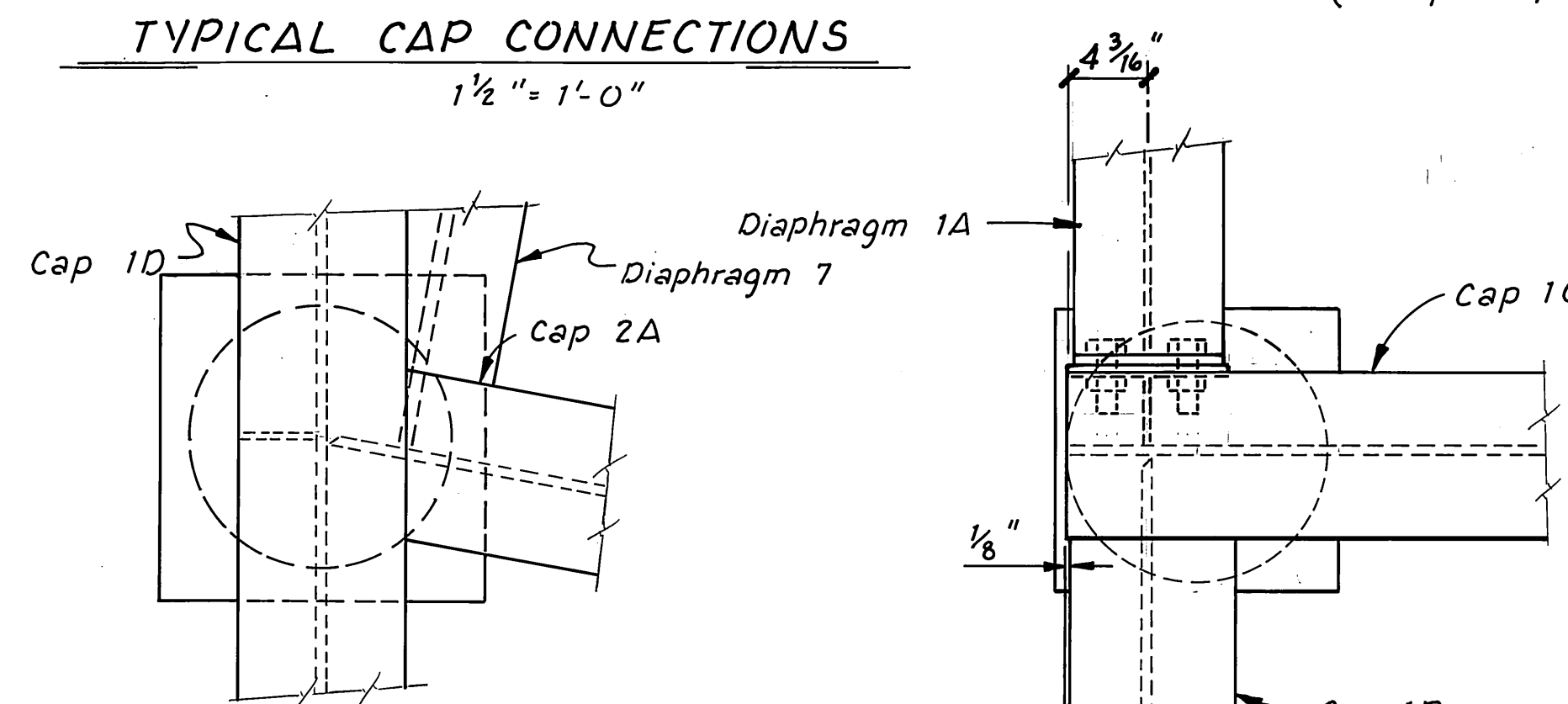
BATTER PILE TEMPLATE
1 1/2" = 1'-0"



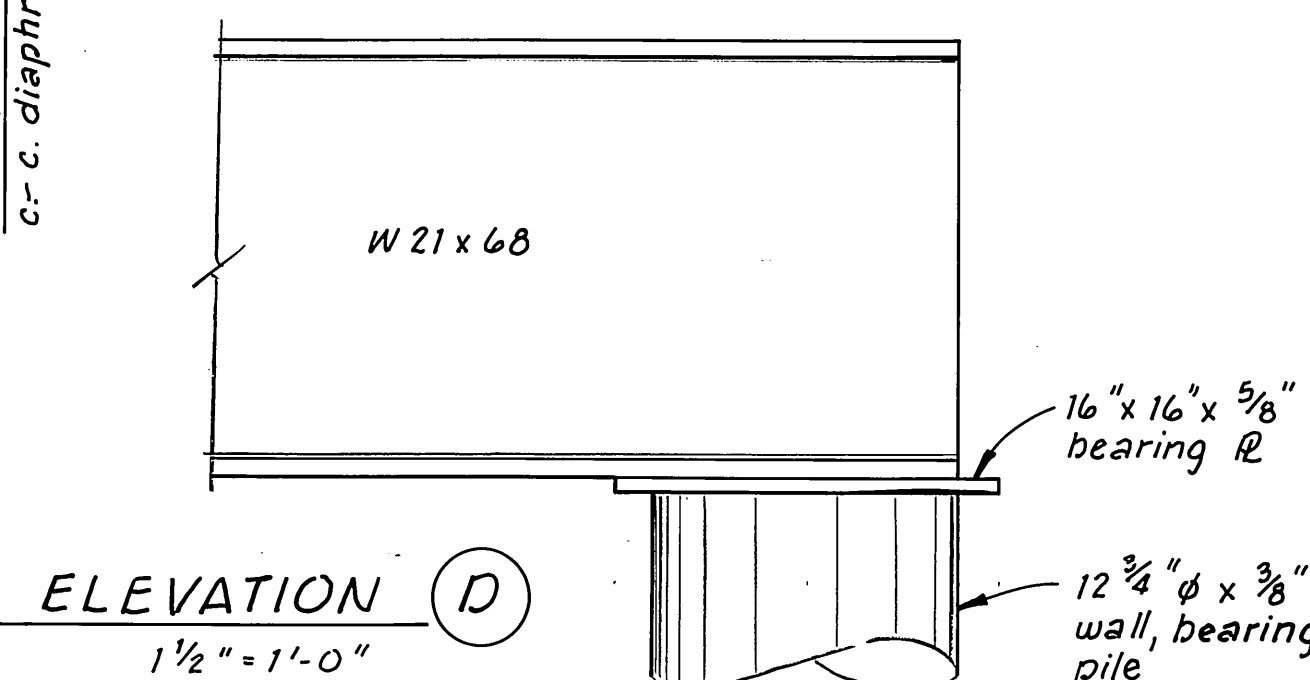
TYPICAL CAP CONNECTIONS
1 1/2" = 1'-0"



TYPICAL DIAPHRAGM CONNECTION
1 1/2" = 1'-0"
(Except diaphragms on 12' wide approach, see det., sht. 8)



CAP CONNECTIONS
1 1/2" = 1'-0"



ELEVATION D
1 1/2" = 1'-0"

PILE NOTES
12 3/4" x 3/8" wall steel bearing and batter
piles with APF 0-14001 reinforced tips.
Design Capacity = 40 tons
Min. penetration = 15'
Estimated pen. = 30' 12' to 30' Actual

DESIGN LOADING
HS 15-44 - AASHTO
Uniform LL = 250 psf
400T vessel approach @ 0.5 ft/sec.
90° to dock. 20' contact at face.

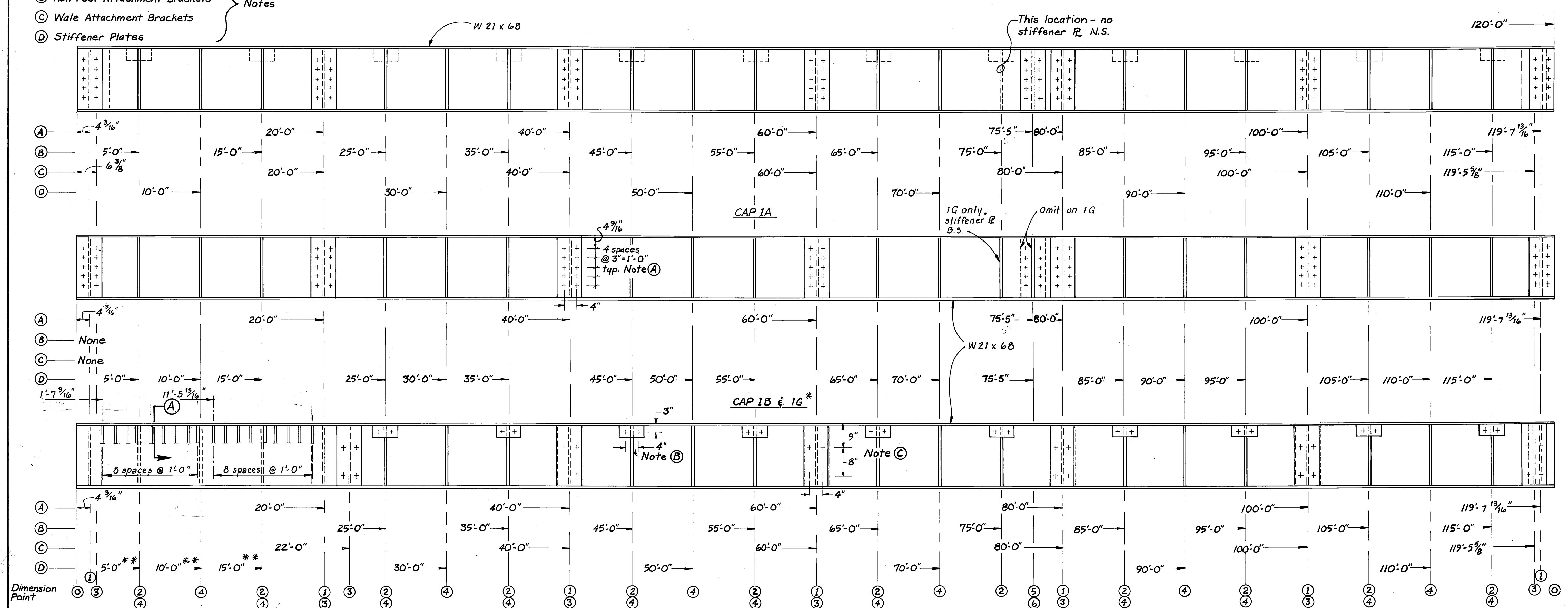
LEGEND

- Steel Pile
- ① Diaphragm

NOTE: See other cap connection details on sht. 15 DCW 1-20-37

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES Petersburg		Alaska	
APPROACH & DOCK PILE & CAP LAYOUT AND MISC. DET. See Sheet 17 for Actual Layout			
DESIGNED RPB	CHECKED	DRAWN TS	DATE 2-84
PROJECT NUMBER K-78190	SHEET 5		OF 55

- (A) Diaphragm Attachment Brackets
 - (B) Rail Post Attachment Brackets
 - (C) Wale Attachment Brackets
 - (D) Stiffener Plates
- } Notes

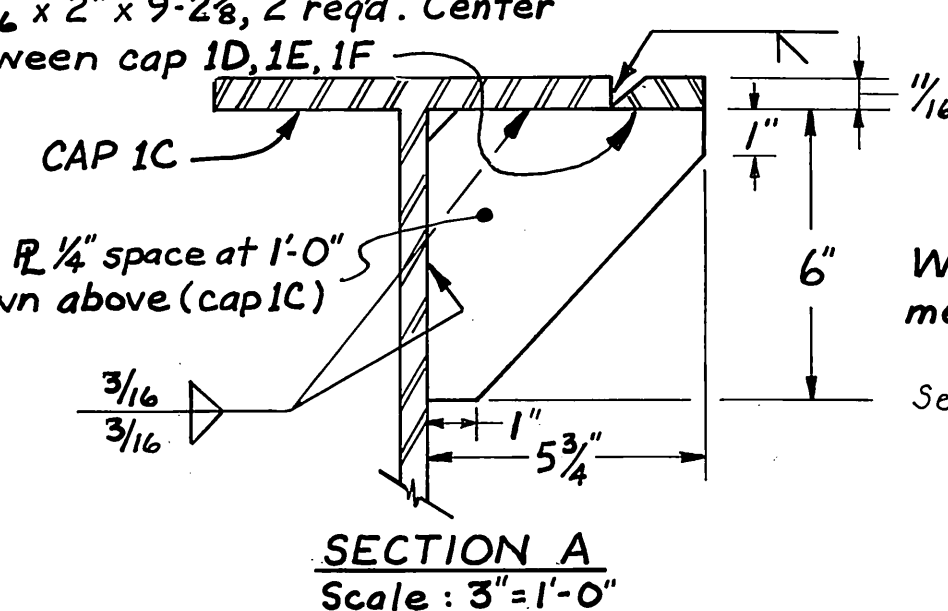


HARDWARE				SCHEDULE			
Note	Cap	Point	Hardware	Note	Cap	Point	Hardware
(A)	1A	(1)	WT 4 x 15.5 x 19 3/4" long N.S.	(C)	1A	(3)	WT 4 x 15.5 x 19 3/4" long F.S.
(A)	1A	(6)	WT 4 x 15.5 x 19 3/4" long N.S.	(C)	1C	(3)	WT 4 x 15.5 x 19 3/4" long N.S.
(A)	1B	(1)	WT 4 x 15.5 x 19 3/4" long B.S.				
(A)	1B	(5)	WT 4 x 15.5 x 19 3/4" long F.S.	(D)	1A	(4)	R 3/8" x 4" x 19 3/4" long B.S.
(A)			R 3/8" x 4" x 19 3/4" long N.S.	(D)	1B	(4)	R 3/8" x 4" x 19 3/4" long B.S.
(A)	1C	(1)	WT 4 x 15.5 x 19 3/4" long F.S.	(D)	1B	(6)	R 3/8" x 4" x 19 3/4" long N.S.
(B)	1A	(2)	WT 4 x 15.5 x 4" long F.S.	(D)	1C	(4)	R 3/8" x 4" x 19 3/4" long B.S.
			R 3/8" x 4" x 15 3/4" long F.S.				
			R 3/8" x 4" x 19 3/4" long N.S.				
(B)	1C	(2)	WT 4 x 15.5 x 4" long N.S.				
			R 3/8" x 4" x 15 3/4" long N.S.				
			R 3/8" x 4" x 19 3/4" long F.S.				

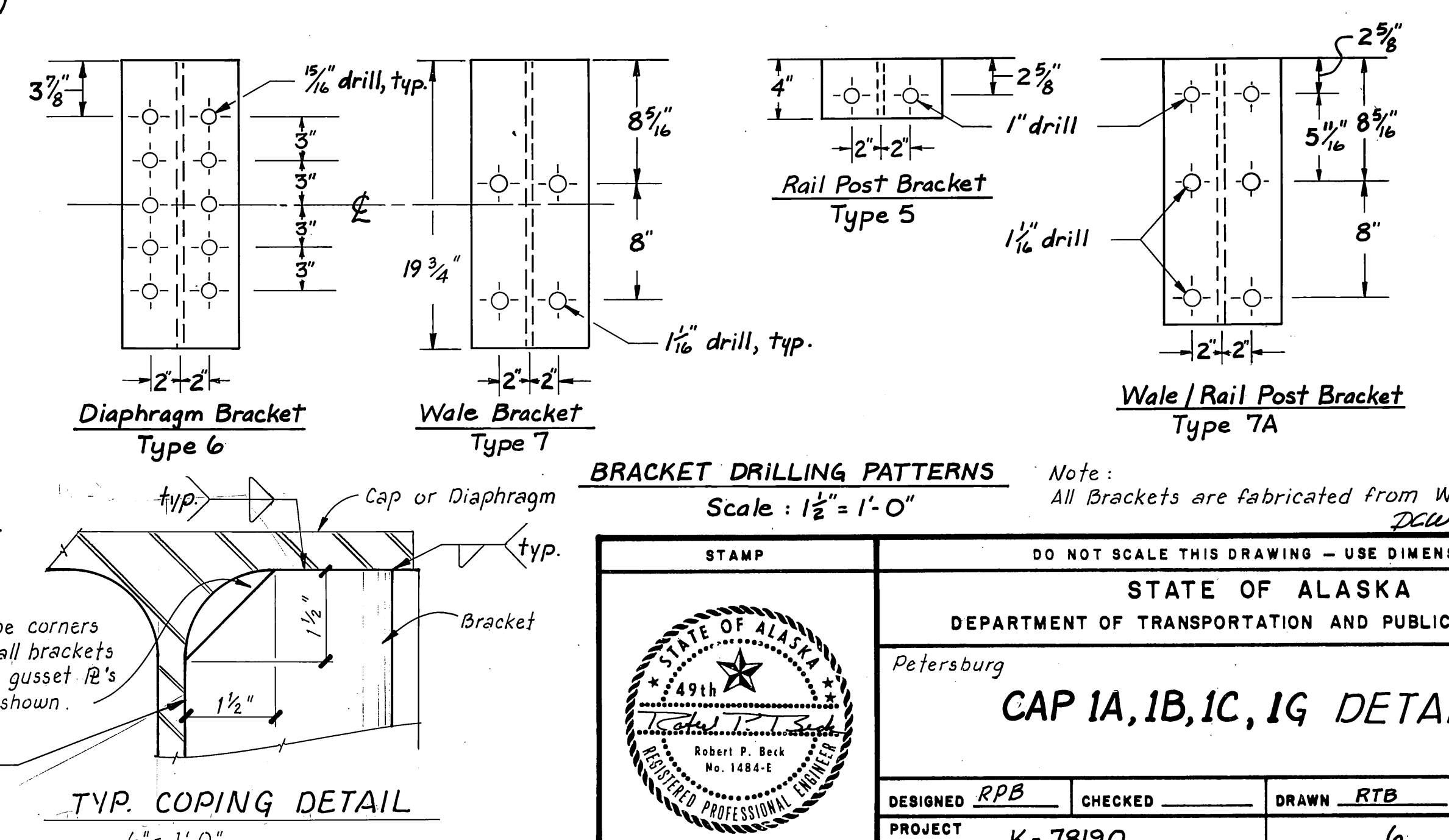
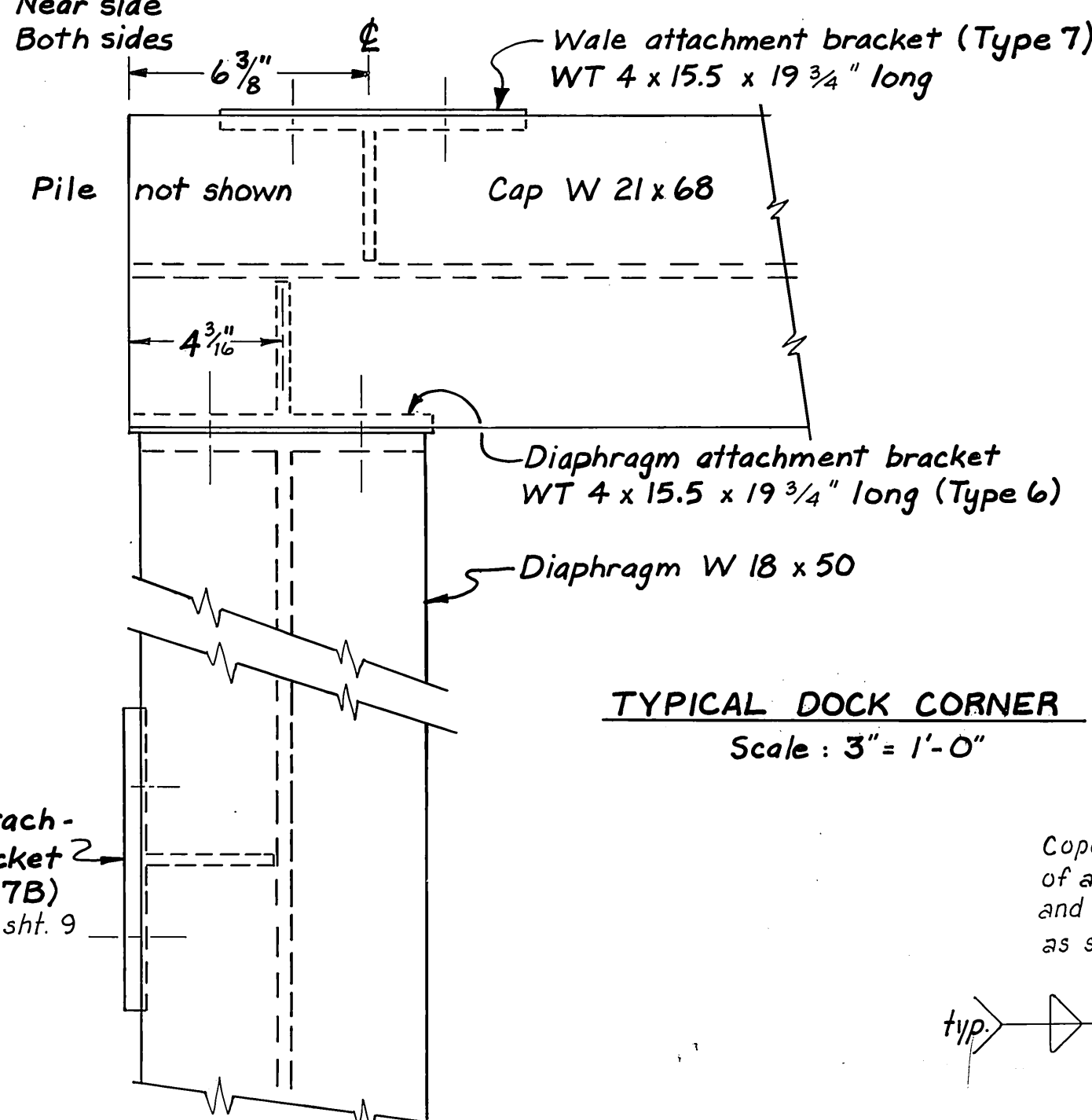
* Cap 1G is the same as 1B except, as noted, points 5 & 6.
 ** R $\frac{3}{8}$ " x 4" x $19\frac{3}{4}$ " long, F.S. only.

NOTE : See typ. welds, Sect. B, sht. 15

Note: Caps may be field spliced utilizing full penetration butt welds. Caps to be spliced two feet from pile.

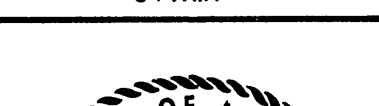


F.S. = Far side
N.S. = Near side
B.S. = Both sides



BRACKET DRILLING PATTERNS
Scale : $1\frac{1}{2}" = 1'-0"$

Note:
All Brackets are fabricated from WT 4 x 15.5
DCW 1-20-87

	DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Alaska	
	CAP 1A, 1B, 1C, 1G DETAILS			
DESIGNED <u>RPB</u>	CHECKED _____	DRAWN <u>RTB</u>	DATE <u>3-84</u>	
PROJECT NUMBER <u>K-78190</u>		SHEET <u>6</u> OF <u>55</u>		

- (A) Diaphragm Attachment Brackets
(B) Rail Post Attachment Brackets
(C) Wale Attachment Brackets
(D) Stiffener Plates

Note: See details of brackets, sheet 6.

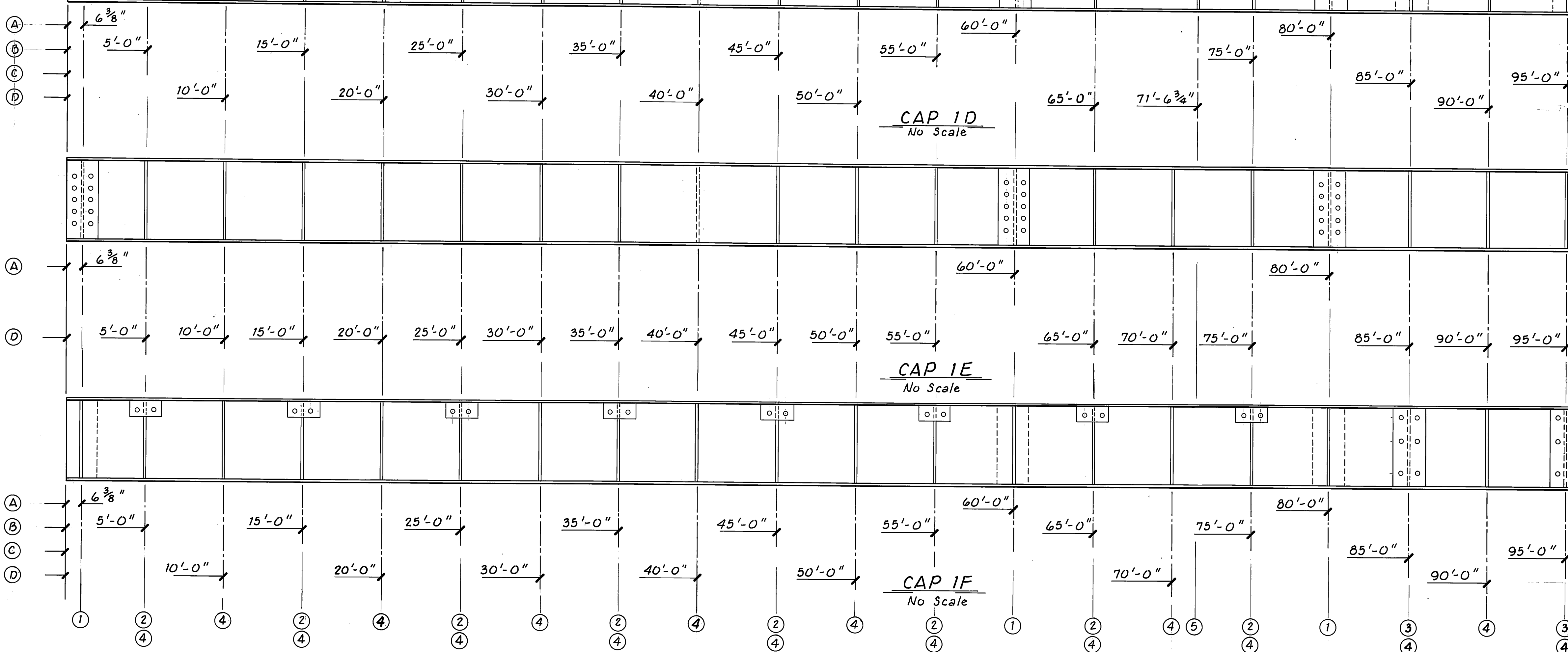
Omit stiffener
12 on F.S. @
this location,
on this cap only

11'-6 3/4"

Cap 2C

100'-3 7/8"

W 21 x 68



W 21 x 68

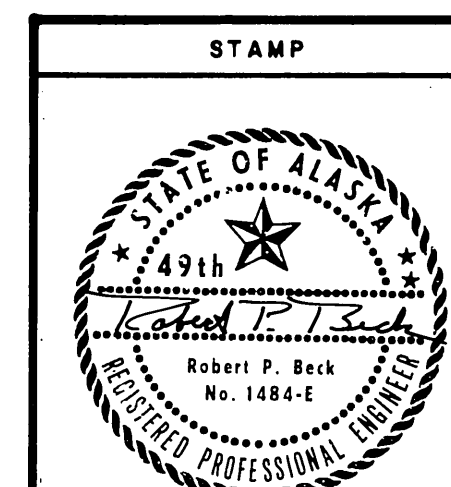
W 21 x 68

HARDWARE SCHEDULE			
NOTE	CAP	POINT	HARDWARE
(A)	1D	(1)	WT 4 x 15.5 x 19 3/4" long N.S. R 3/8" x 4" x 19 3/4" long F.S.
	1E	(1)	WT 4 x 15.5 x 19 3/4" long B.S.
	1F	(1)	WT 4 x 15.5 x 19 3/4" long F.S. R 3/8" x 4" x 19 3/4" long N.S.
(B)	1D	(2)	WT 4 x 15.5 x 4" long F.S. R 3/8" x 4" x 15 3/4" long F.S. R 3/8" x 4" x 19 3/4" long N.S.
	1F	(2)	WT 4 x 15.5 x 4" long N.S. R 3/8" x 4" x 15 3/4" long N.S. R 3/8" x 4" x 19 3/4" long F.S.
(C)	1D	(3)	WT 4 x 15.5 x 19 3/4" long F.S. *
	1F	(3)	WT 4 x 15.5 x 19 3/4" long N.S. *
(D)	1D	(4)	R 3/8" x 4" x 19 3/4" long B.S. R 3/8" x 4" x 19 3/4" long N.S.
	1E	(4)	R 3/8" x 4" x 19 3/4" long B.S.
	1F	(4)	R 3/8" x 4" x 19 3/4" long B.S.

F.S. - Far Side
N.S. - Near Side
B.S. - Both Sides

* Special drilling pattern to accommodate both rail post and wale. See detail of bracket type 7A, sht. 6.

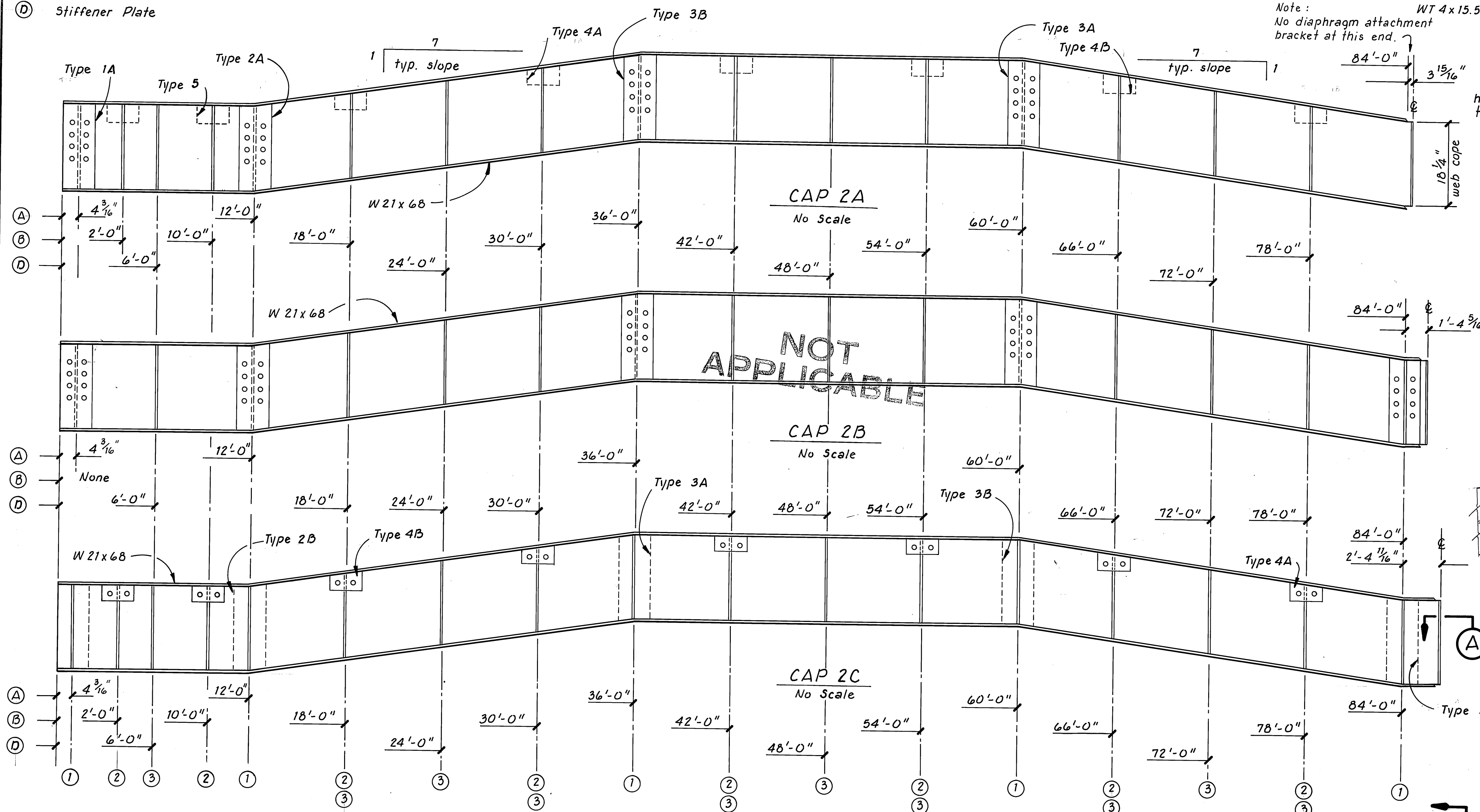
Note: Caps may be spliced (shop or field) utilizing full penetration butt welds. Caps to be spliced two feet from pile.



DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES Petersburg Alaska			
CAP 1D, 1E, 1F DETAILS			
DESIGNED RPB	CHECKED	DRAWN TS	DATE 2-84
PROJECT NUMBER K-78190	SHEET 7		OF 55

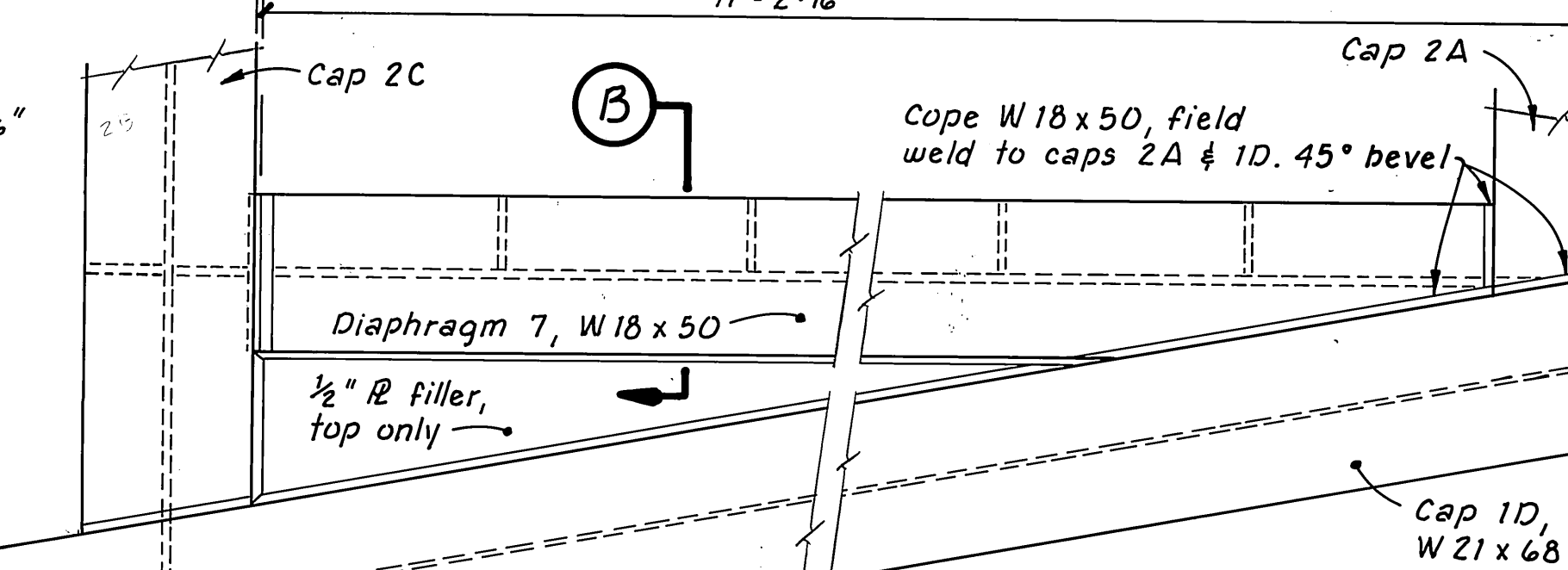
DCW 1-20-87

- (A) Diaphragm Attachment Bracket
(B) Rail Post Attachment Bracket
(C) Stiffener Plate

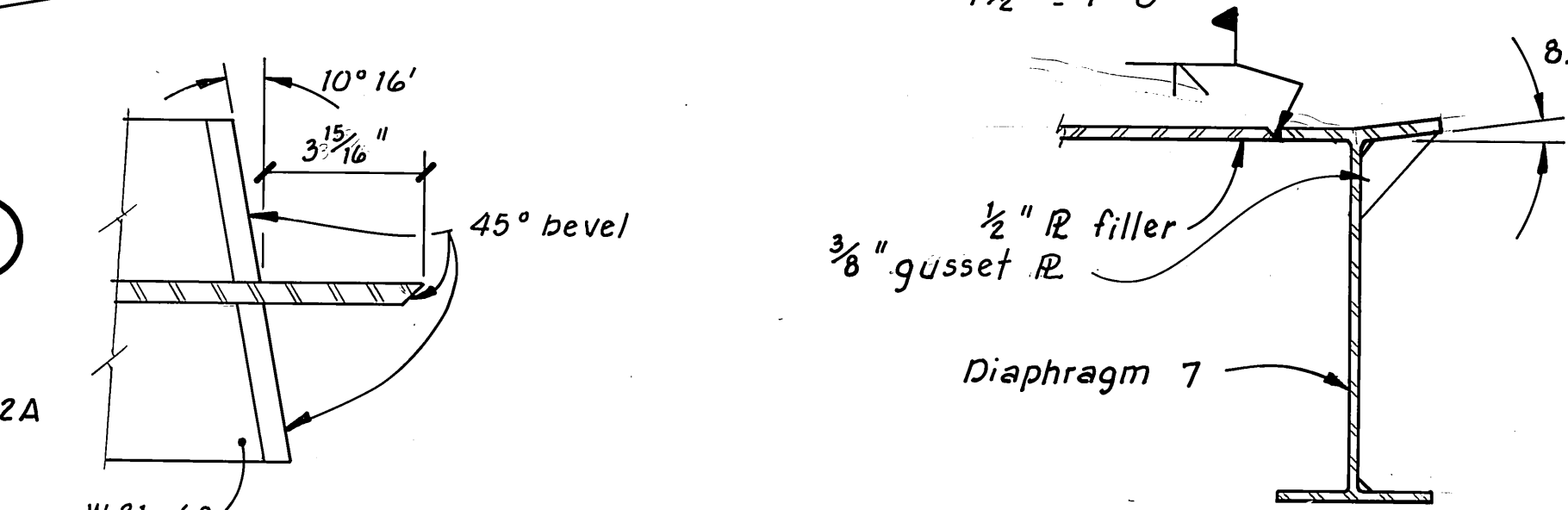


RAIL POST
BRACKET DETAILS

DIAPHRAGM ATTACHMENT BRACKET DETAILS

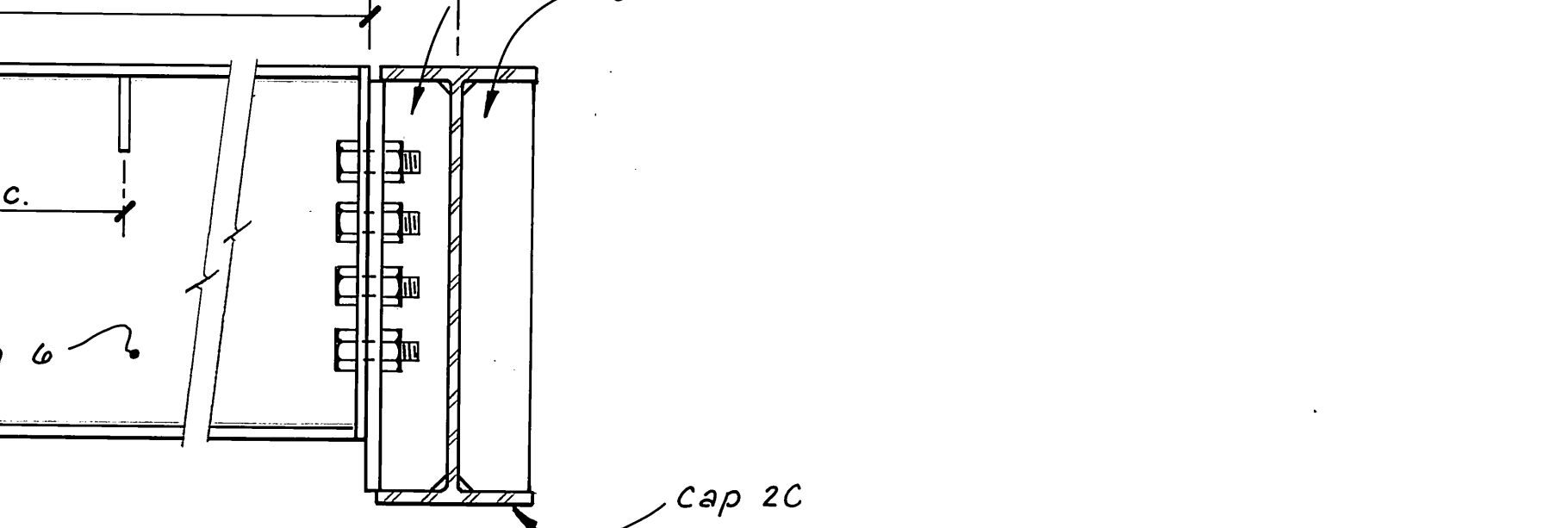


DIAPHRAGM 7 DETAIL



SECTION A
3" = 1'-0"

SECTION B
1 1/2" = 1'-0"

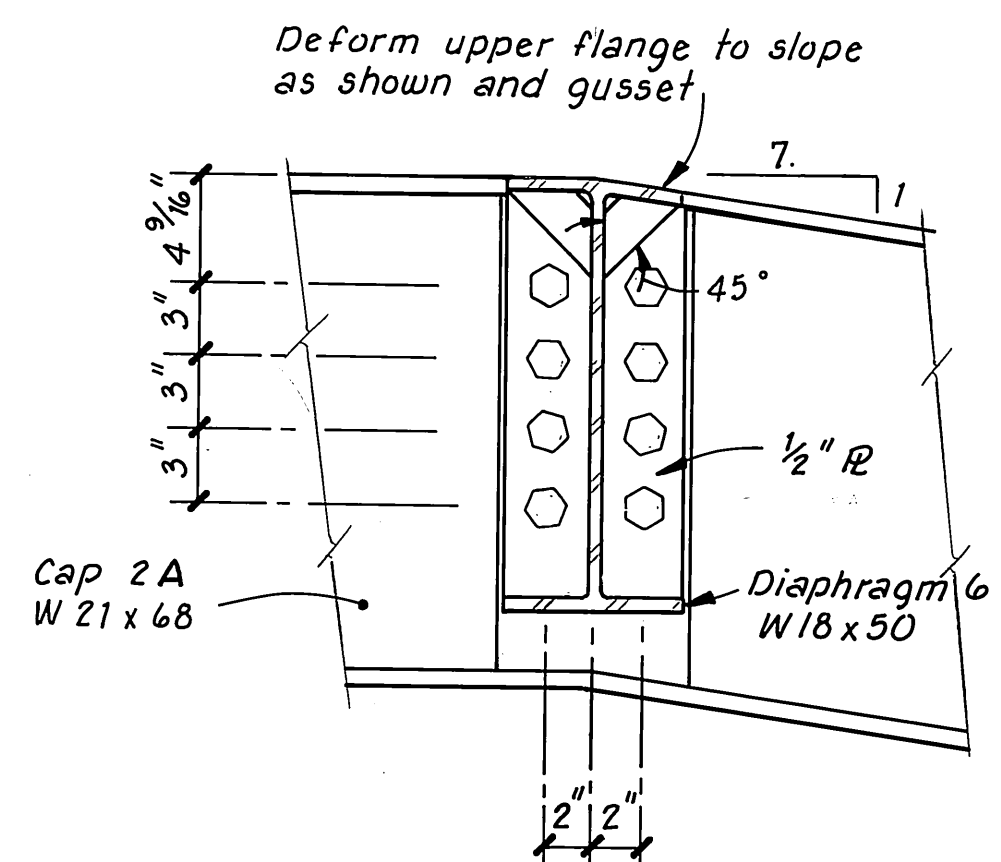


Note: Diaphragm 6 shown, others similar, see sht. 9

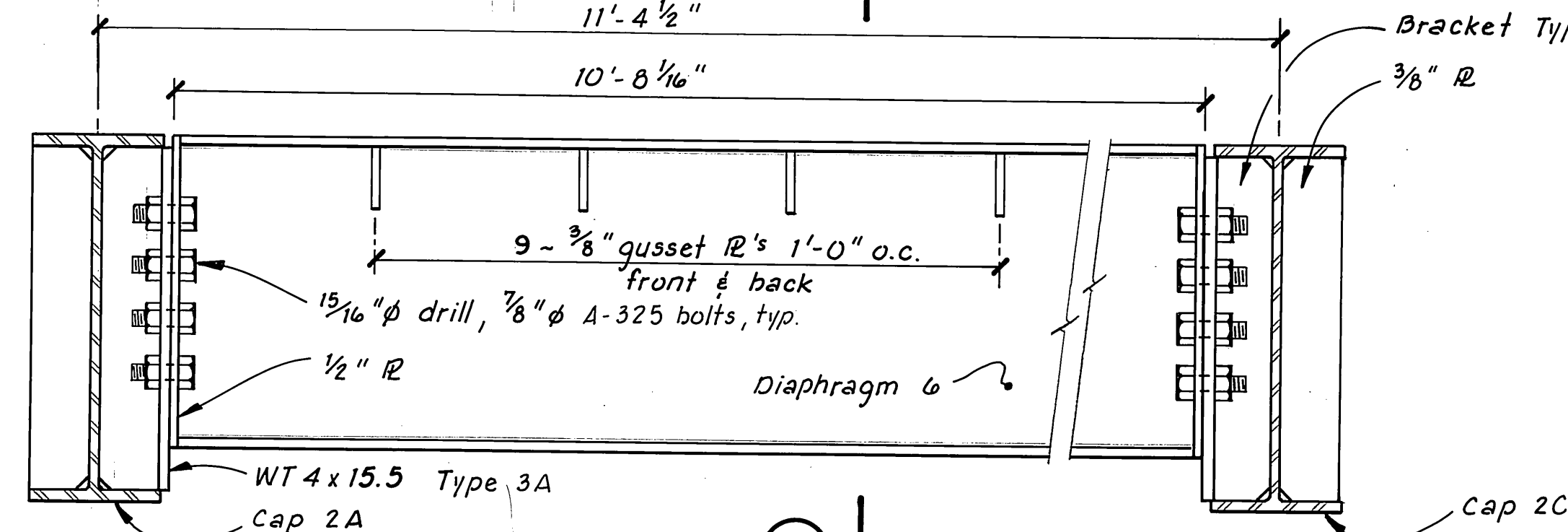
HARDWARE SCHEDULE			
NOTE	CAP	POINT	HARDWARE
(A)	2A	(1)	WT 4 x 15.5 x 19 3/4" long N.S. R 3/8" x 4" x 19 3/4" long F.S.
	2C	(1)	WT 4 x 15.5 x 19 3/4" long F.S. R 3/8" x 4" x 19 3/4" long N.S.
(B)	2A	(2)	WT 4 x 15.5 x 4" long F.S. R 3/8" x 4" x 15.06" long F.S. R 3/8" x 4" x 19 3/4" long N.S.
	2C	(2)	WT 4 x 15.5 x 4" long N.S. R 3/8" x 4" x 15.06" long N.S. R 3/8" x 4" x 19 3/4" long F.S.
(D)	2A	(3)	R 3/8" x 4" x 19 3/4" long B.S.
	2C	(3)	R 3/8" x 4" x 19 3/4" long B.S.

F.S. - Far Side
N.S. - Near Side
B.S. - Both Sides

Note: Caps may be spliced (shop or field) utilizing full penetration butt welds.
Caps to be spliced two feet from pile (field splices).



SECTION C
1 1/2" = 1'-0"



BEARING DIAPHRAGM DETAILS
1 1/2" = 1'-0"

DCW 1-20-87

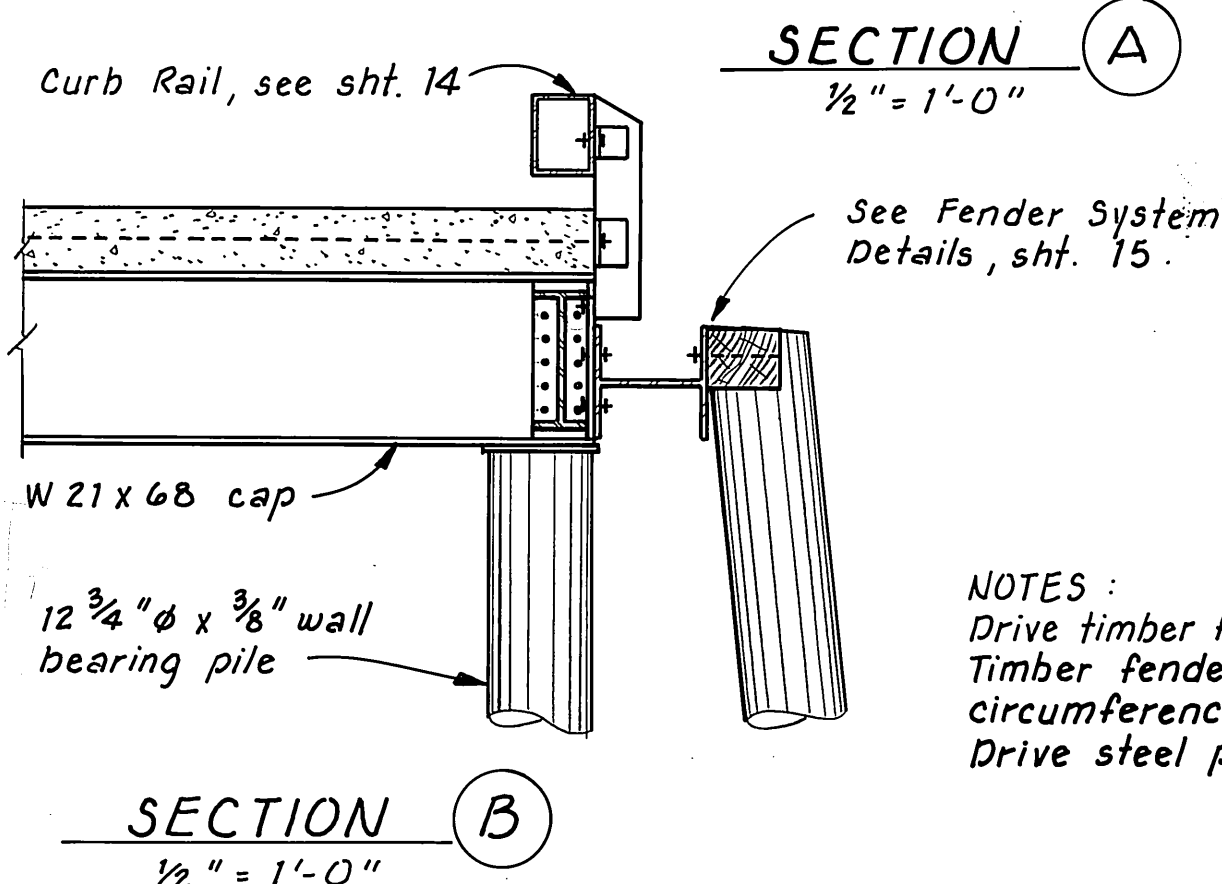
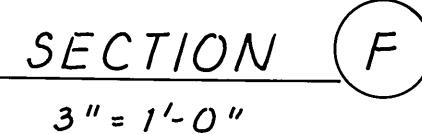
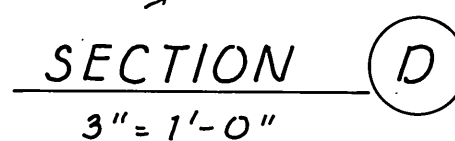
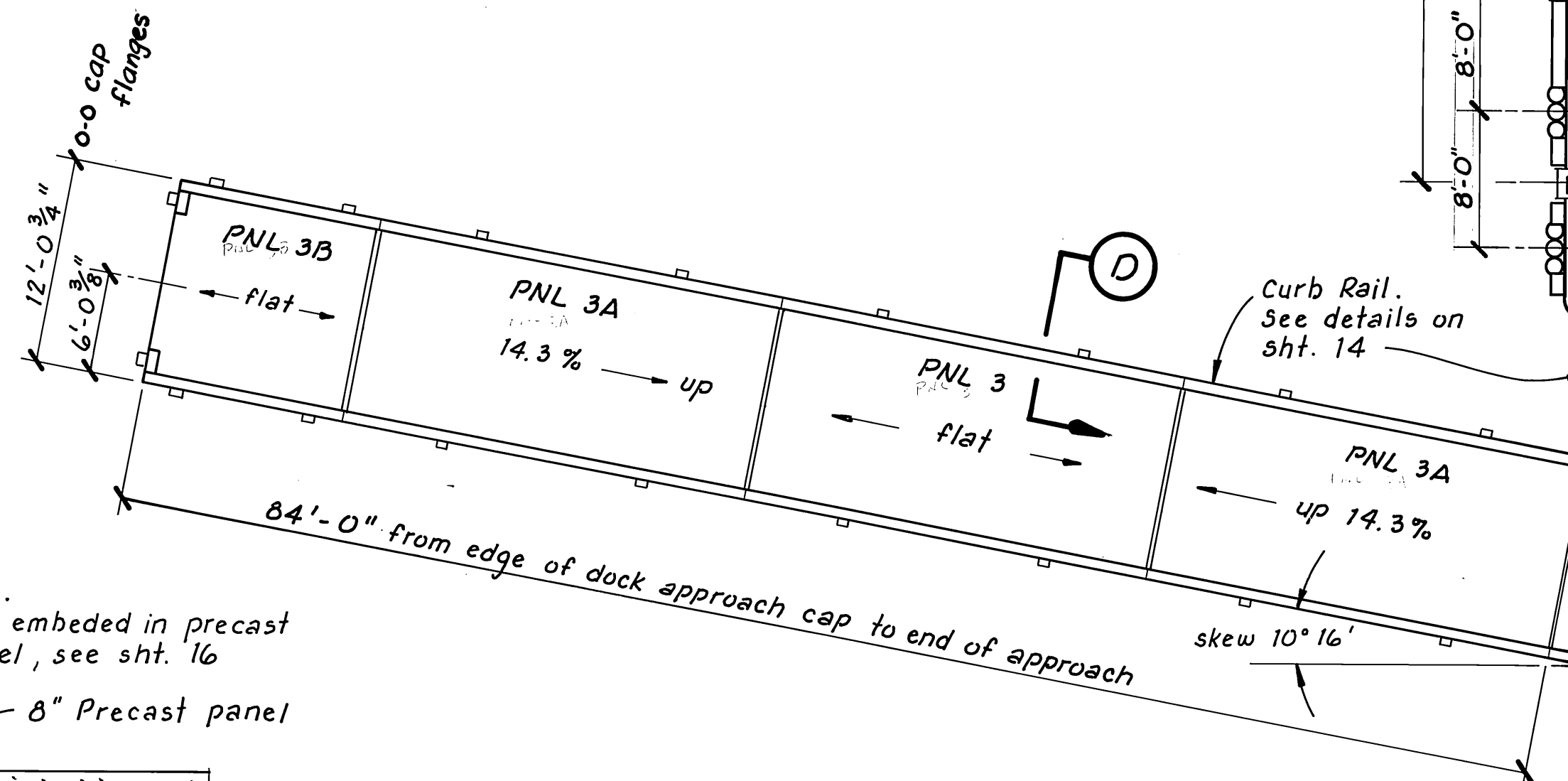
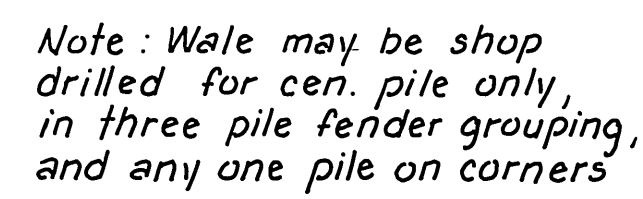
STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
Petersburg Alaska

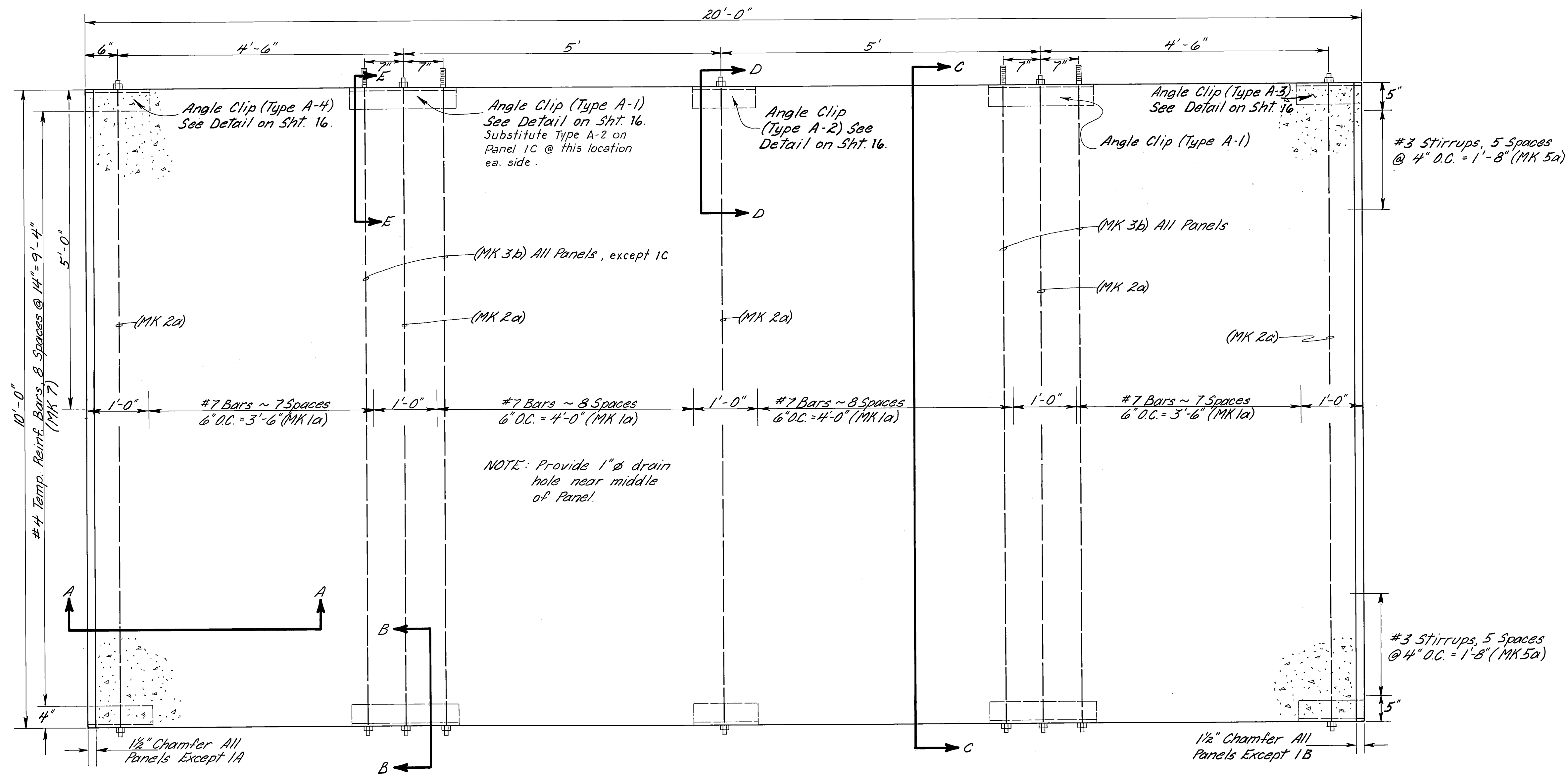
CAP 2A, 2B, 2C DETAILS

DESIGNED RPB CHECKED _____ DRAWN T.S. DATE 2-84
PROJECT NUMBER K-78190 SHEET 8 OF 55

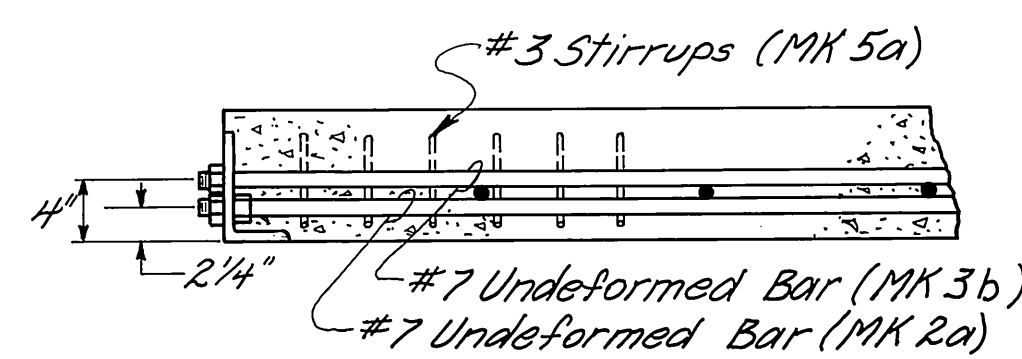


NOTES :
Drive timber fender piles tip down to 6' penetration, or refusal.
Timber fender piles to be 38" min. circumference, 44" max.
circumference at the butt.
Drive steel piles to 30 T bearing (estimated penetration = 30')

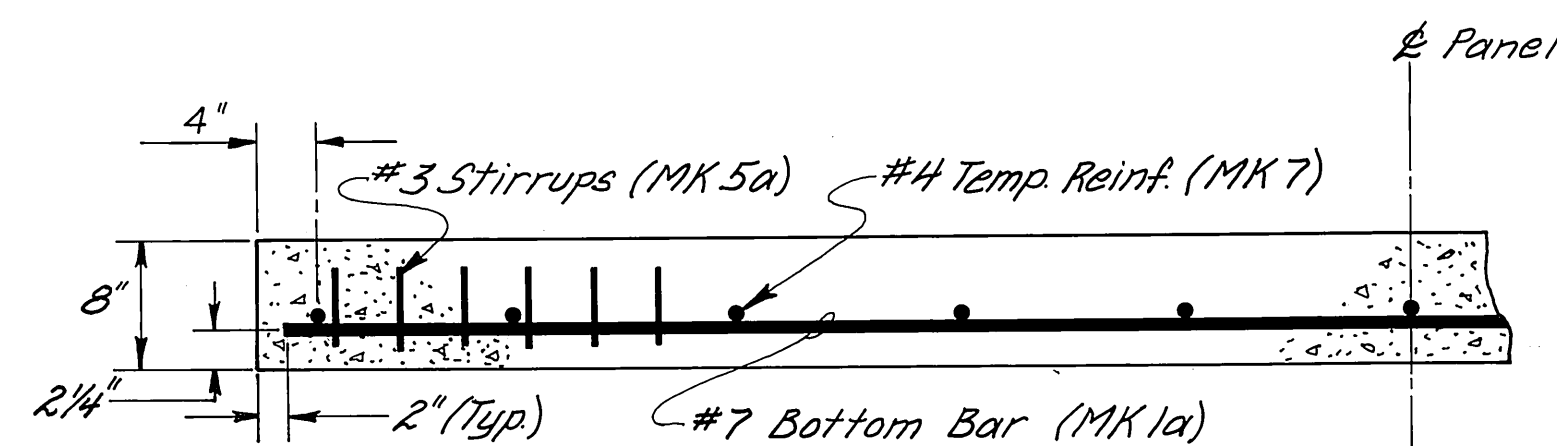
STAMP	DO NOT SCALE THIS DRAWING — USE DIMENSIONS		
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
	<i>Petersburg</i>	<i>Alaska</i>	
	CONCRETE PANEL LAYOUT <i>See Sheet 17 for Actual Layout</i>		
	DESIGNED <u>RPB</u>	CHECKED _____	DRAWN <u>TS</u>
PROJECT NUMBER <u>K-78190</u>		SHEET <u>10</u> OF <u>55</u>	



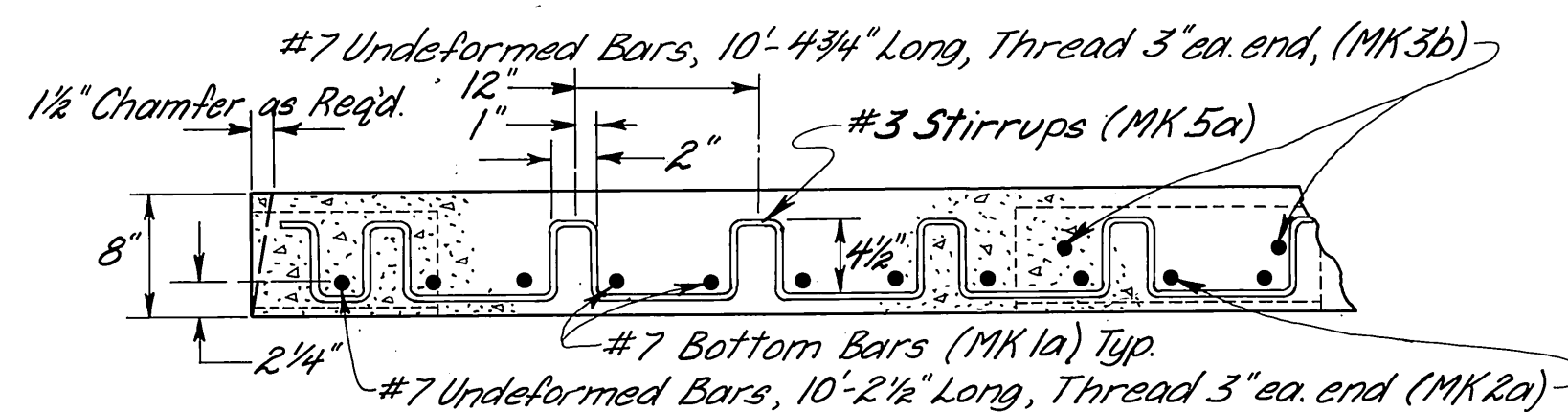
- NOTES
- All bars shall be Grade 60, $f_c = 5000$ P.S.I.
 - Five (7) Panel 1, One (1) Panel 1A, One (1) Panel 1B, One (1) Panel 1C, are req'd. for this project.



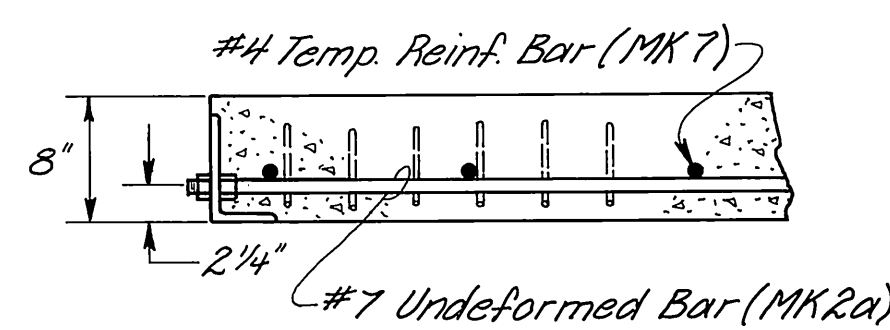
SECTION B-B
1" = 1'-0"



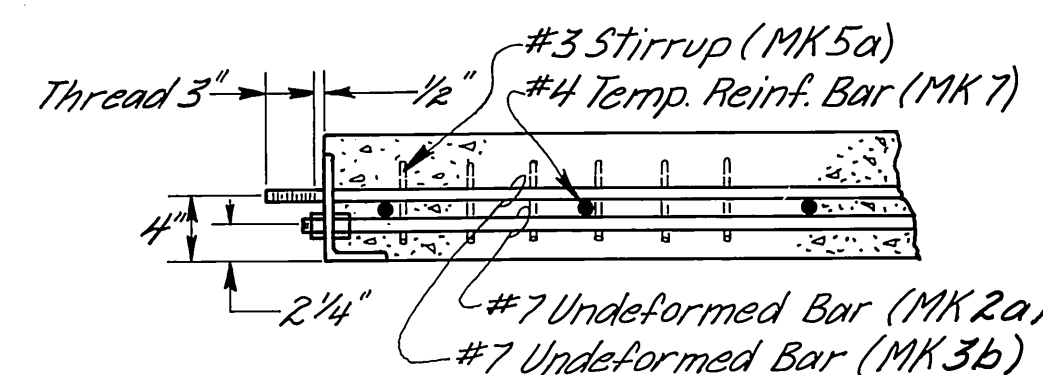
SECTION C-C
1" = 1'-0"



SECTION A-A
1" = 1'-0"



SECTION D-D
1" = 1'-0"



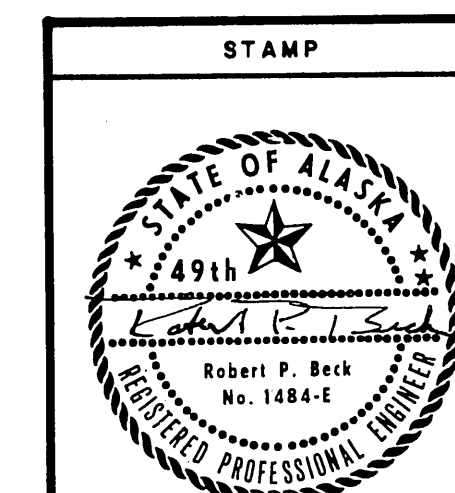
SECTION E-E
1" = 1'-0"

TYPICAL PANEL CONNECTION DETAIL
1" = 1'-0"

BAR SCHEDULE

MK #	SIZE	TYPE	FABRICATED LENGTH	NO. REQ'D PER PANEL
MK 1a	#7	Deformed	9'-8"	34
MK 2a	#7	Undeformed	10'-2 1/2"	5
MK 3b	#7	Undeformed	10'-4 3/4"	4*
MK 5a	#3	Deformed	19'-8"	12
MK 7	#4	Deformed	19'-8"	9
MK 8a	#5	Deformed	9'-8"	1

*Panel 1C = 2



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

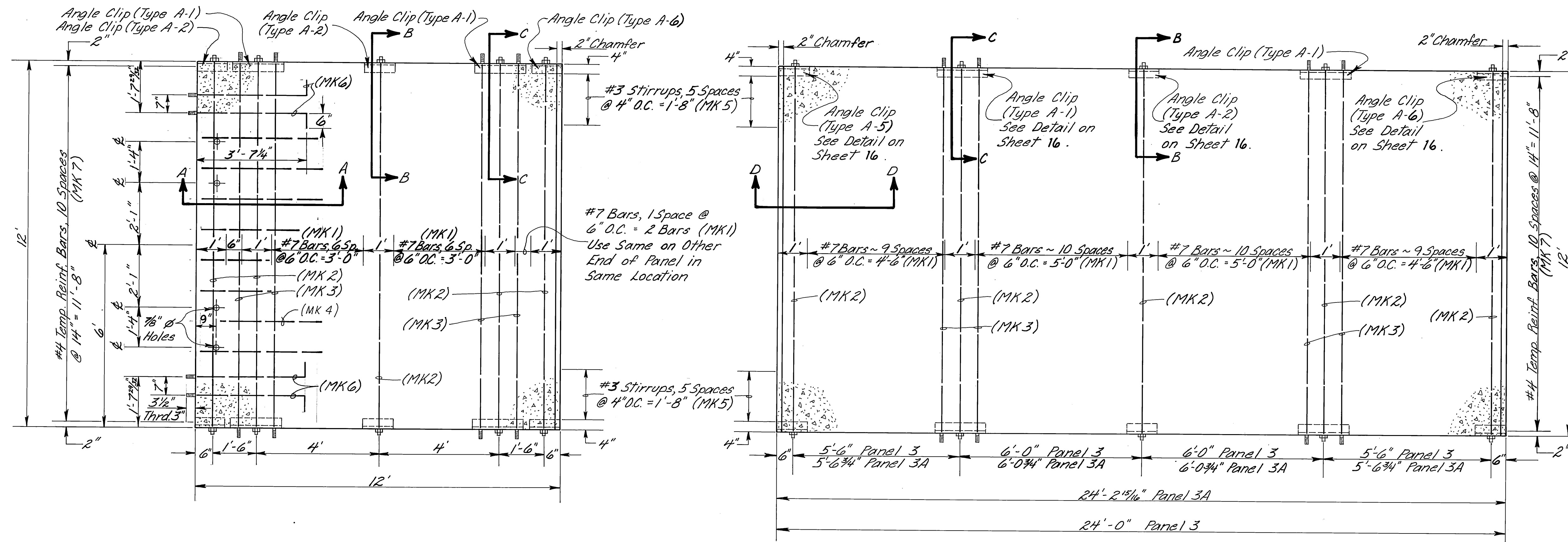
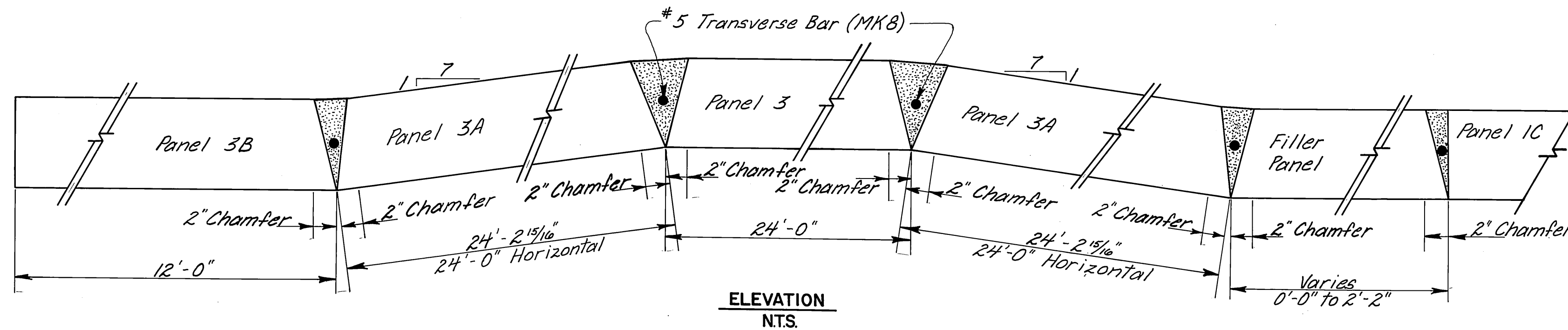
PETERSBURG ALASKA

10'x20'x8" CONCRETE DECK PANEL
PANELS 1, 1A, 1B, 1C

DESIGNED RPB CHECKED DEM DRAWN DEM DATE 2/84

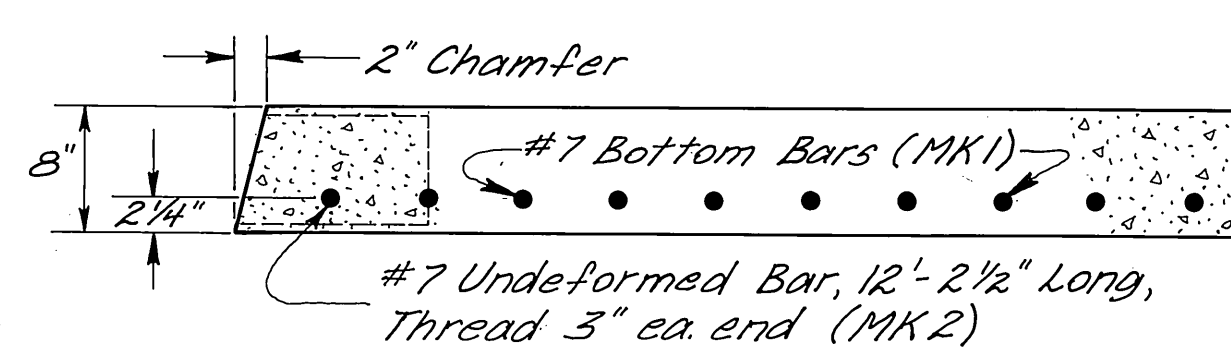
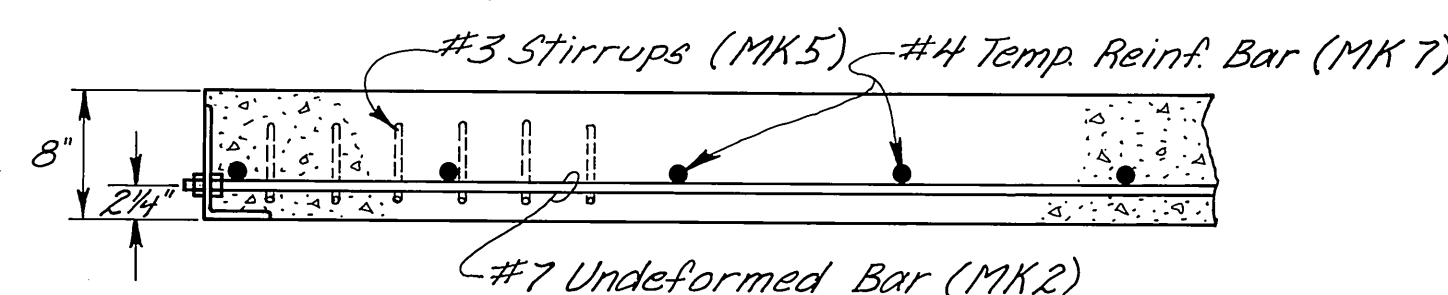
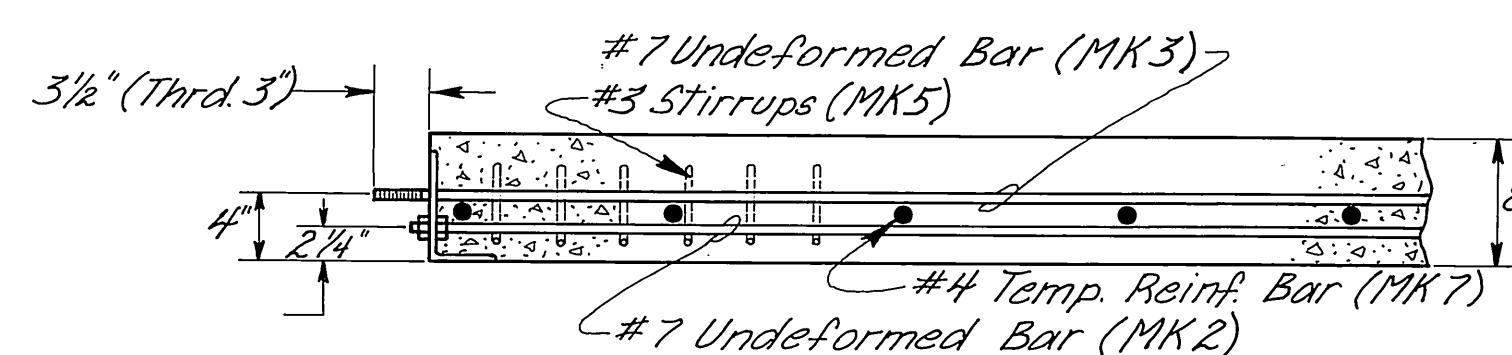
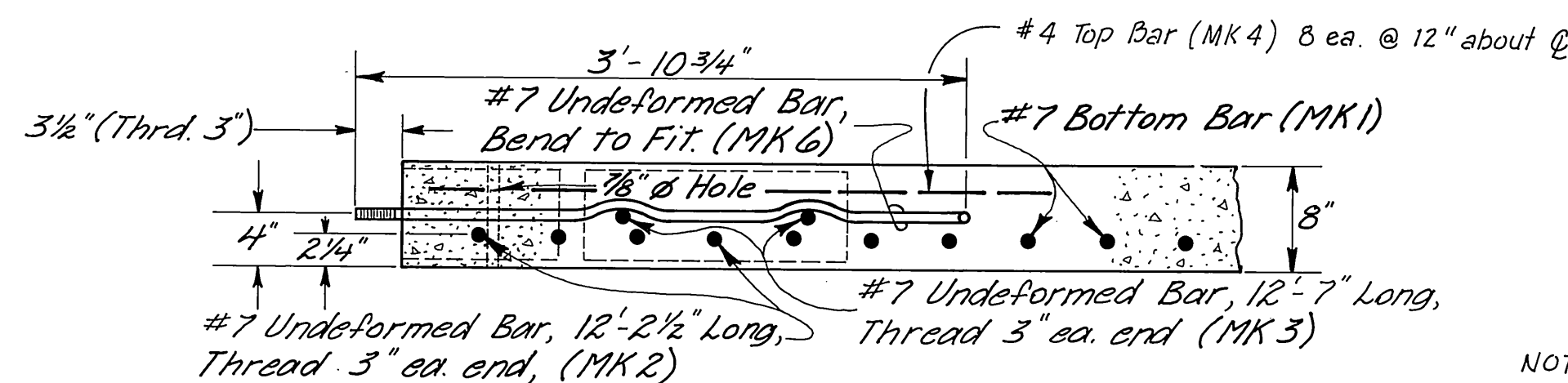
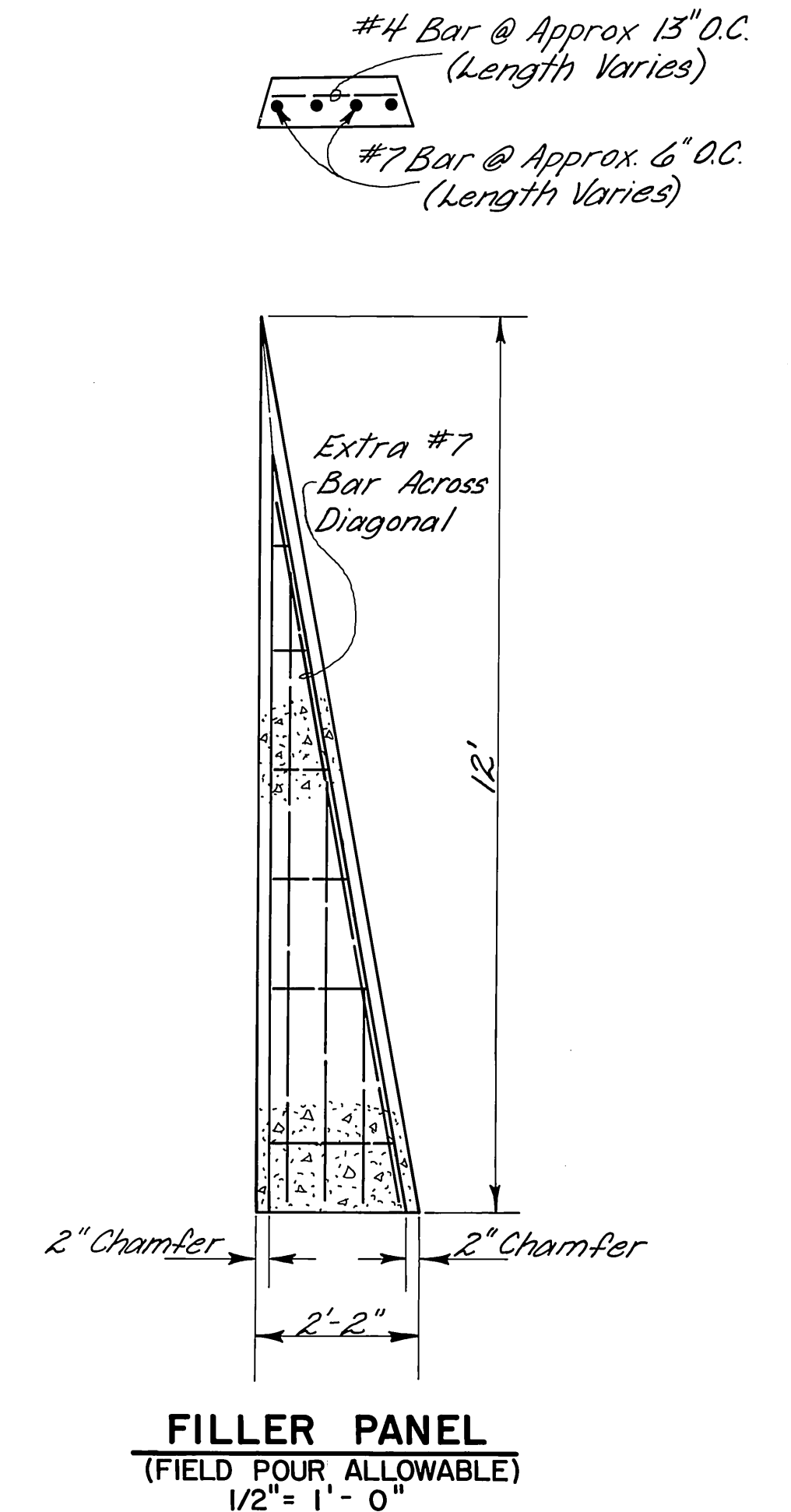
PROJECT NUMBER K-78190 SHEET 11 OF 55

DCW 1-20-87



PANEL 3B
1/2" = 1'-0"

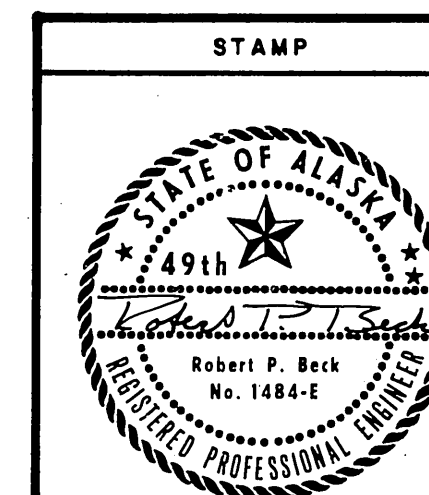
PANELS 3 & 3A
1/2" = 1'-0"



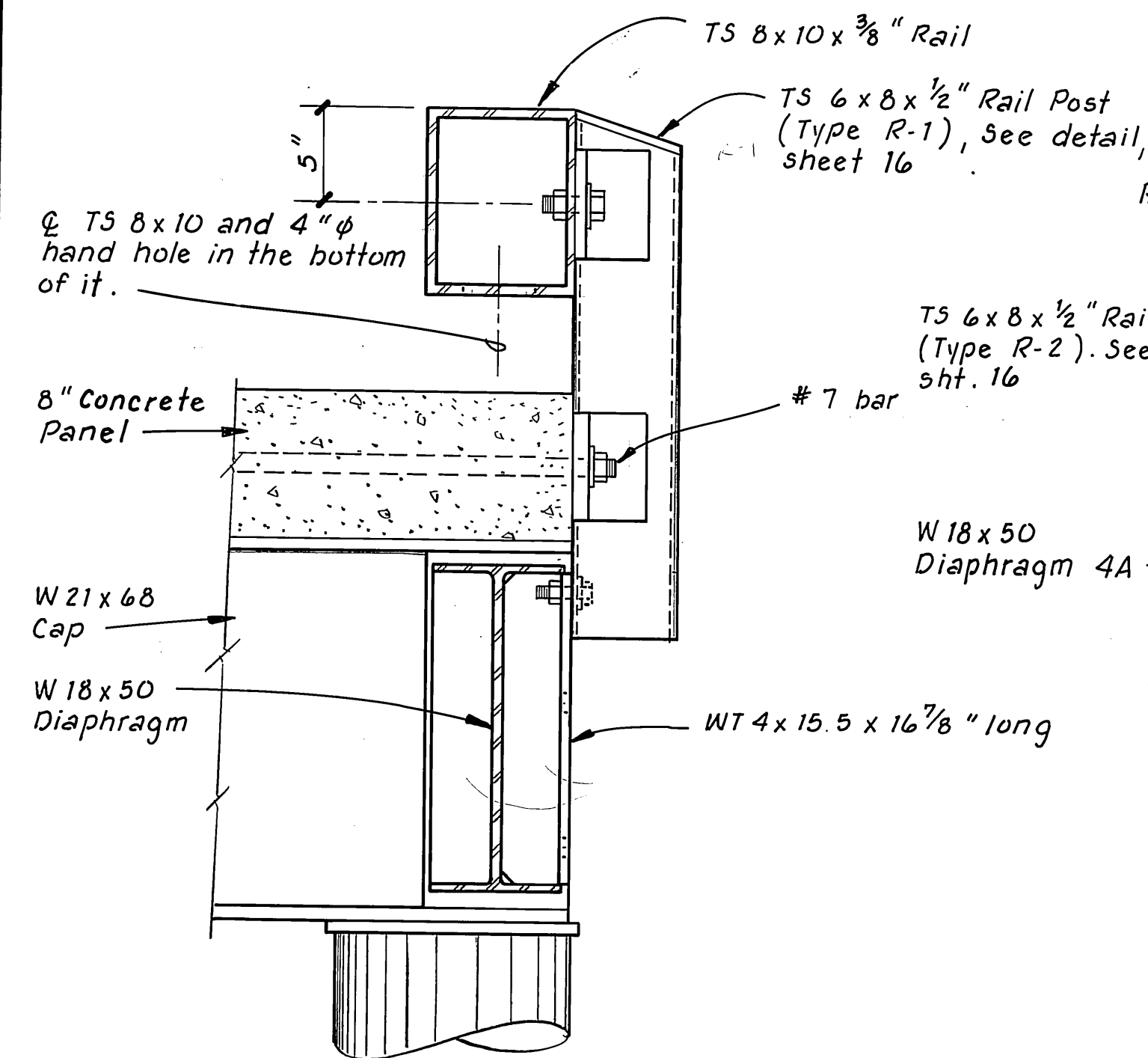
NOTE: See sht. 12 for shape of #3 stirrups (MK5)

BAR SCHEDULE								
MK #	SIZE	TYPE	PANEL 3		PANEL 3A		PANEL 3B	
			FABRICATED LENGTH	NO. REQ'D PER PANEL	FABRICATED LENGTH	NO. REQ'D PER PANEL	FABRICATED LENGTH	NO. REQ'D PER PANEL
MK 1	# 7	Deformed	11'-8"	42	11'-8"	42	11'-8"	18
MK 2	# 7	Undeformed	12'-2 1/2"	5	12'-2 1/2"	5	12'-2 1/2"	5
MK 3	# 7	Undeformed	12'-7"	4	12'-7"	4	12'-7"	4
MK 4	# 7	Deformed					4'-0"	8
MK 5	# 3	Deformed	23'-8"	12	24'-0"	12	11'-8"	12
MK 6	# 7	Undeformed					3'-10 3/4"	4
MK 7	# 4	Deformed	23'-8"	11	24'-0"	11	11'-8"	11
MK 8	# 5	Deformed	11'-8"	1	11'-8"	1	11'-8"	1

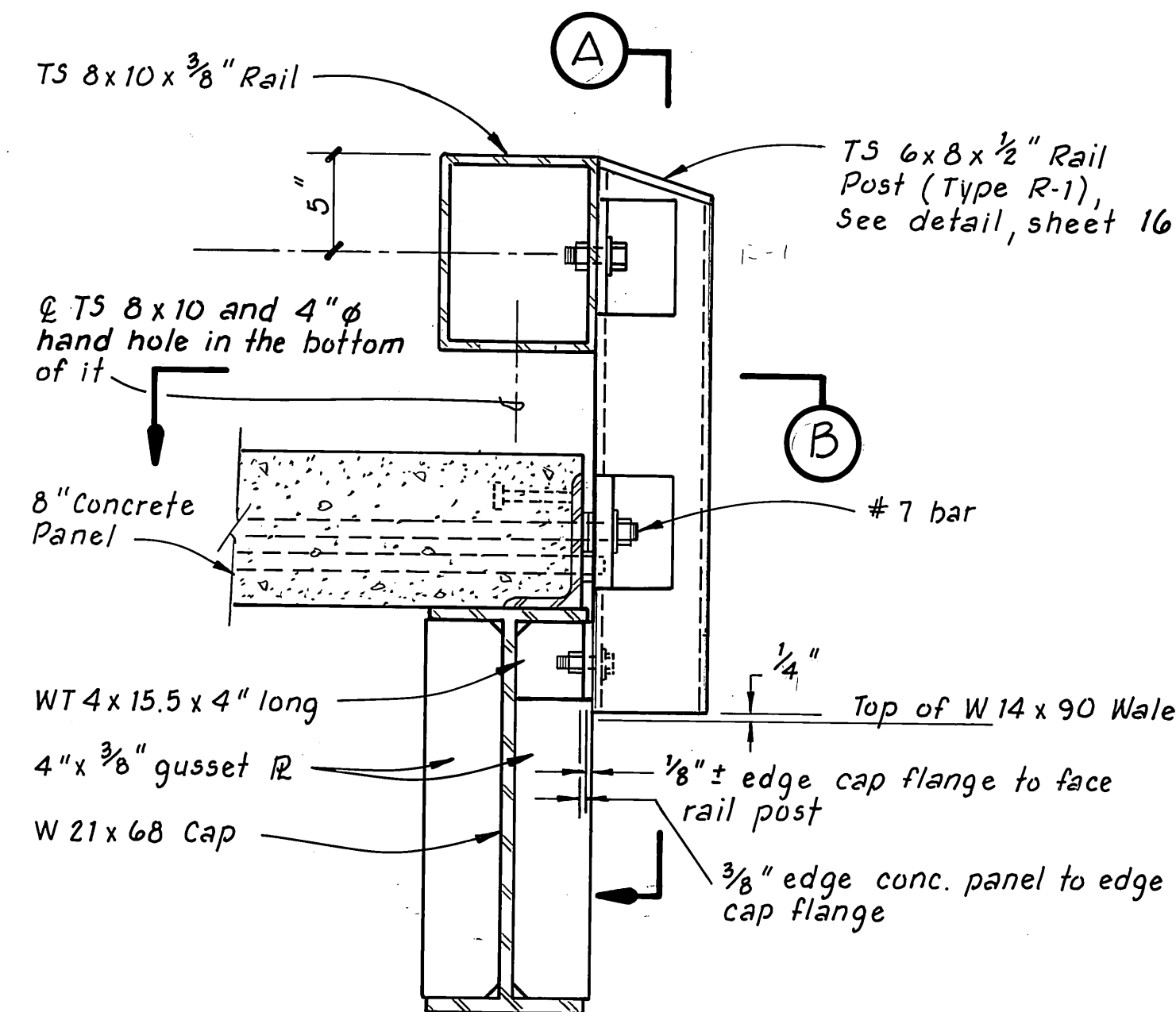
DCW 1-20-87



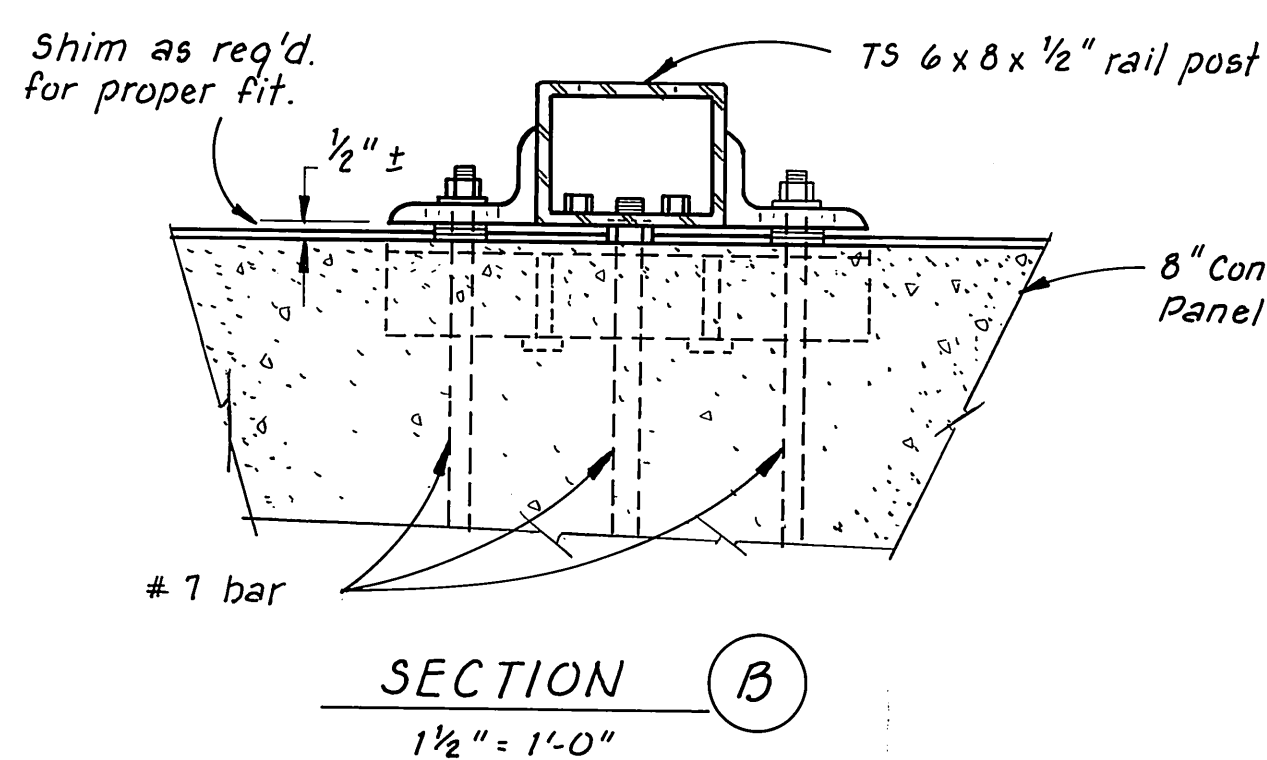
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
PETERSBURG		ALASKA	
12'x24'x8" CONCRETE DECK PANEL 3 12'x24'-2 1/16"x8" CONCRETE DECK PANEL 3A 12'x12'x8" CONCRETE DECK PANEL 3B			
DESIGNED <u>RPB</u>	CHECKED _____	DRAWN <u>JEM</u>	DATE <u>2/84</u>
PROJECT NUMBER <u>K-78190</u>		SHEET <u>13</u> OF <u>55</u>	



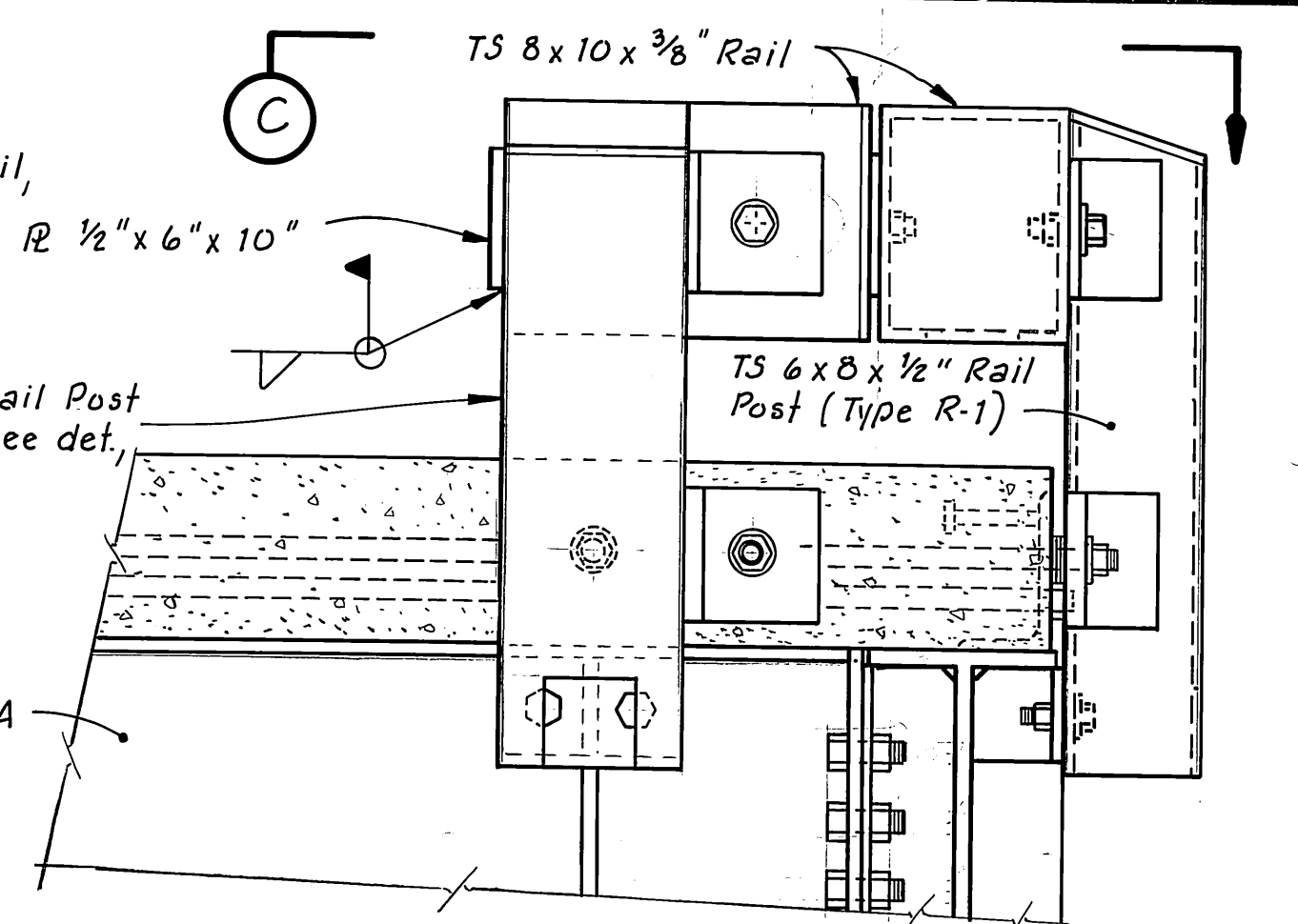
TYPICAL TRANSVERSE POST CONNECTION
1 $\frac{1}{2}$ " = 1'-0"



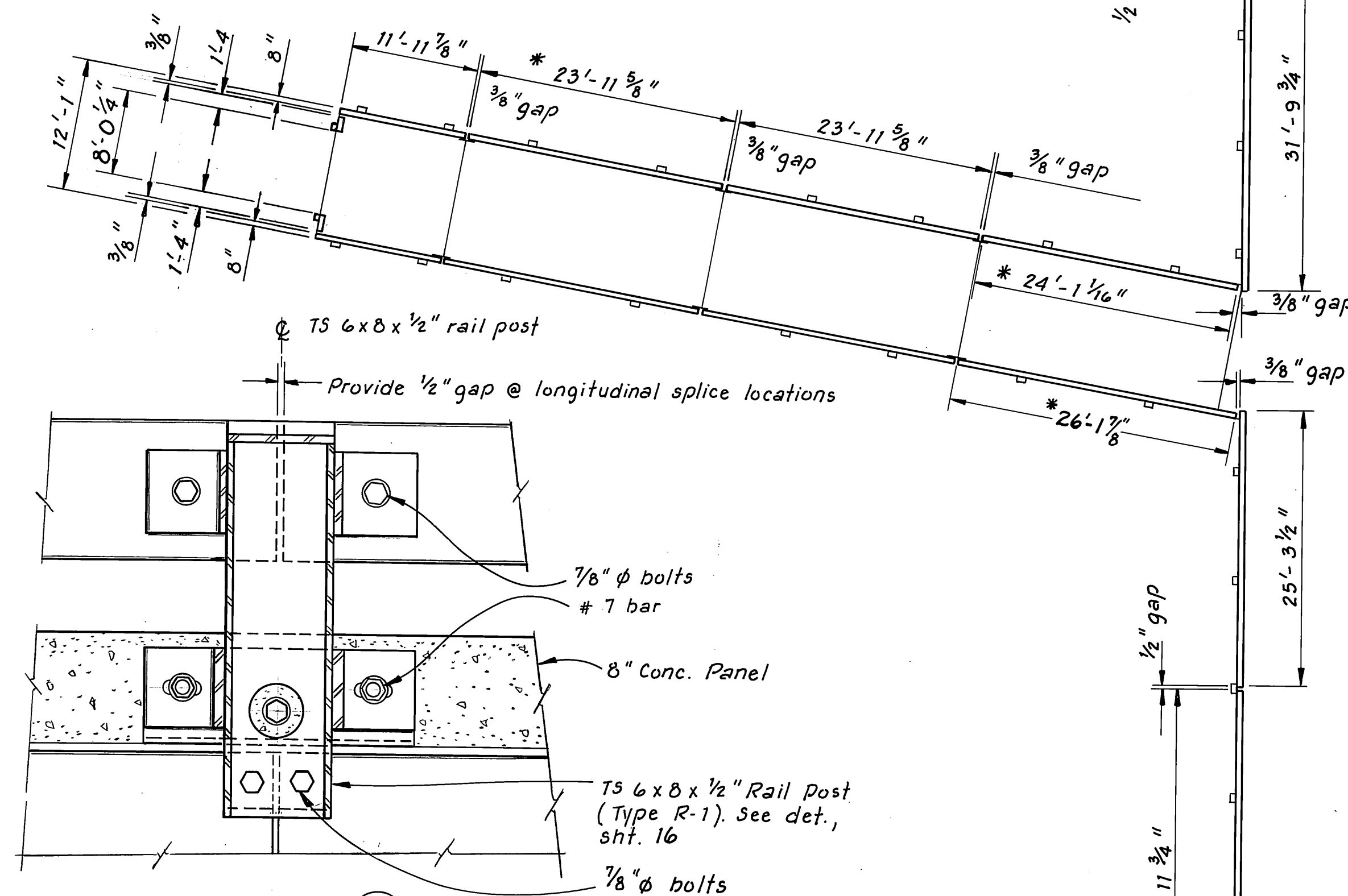
TYPICAL LONGITUDINAL POST CONNECTION
1 $\frac{1}{2}$ " = 1'-0"



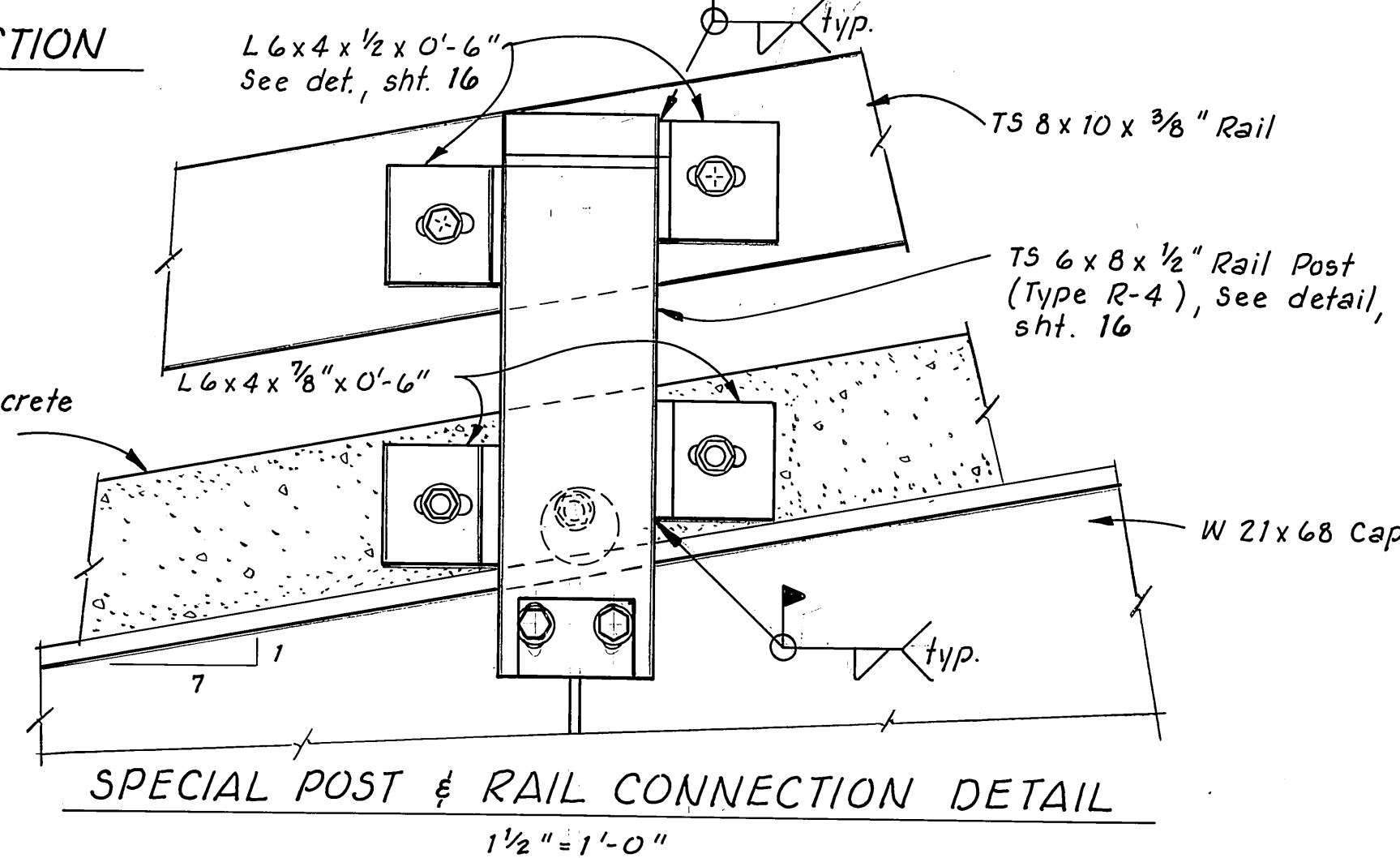
SECTION B
1 $\frac{1}{2}$ " = 1'-0"



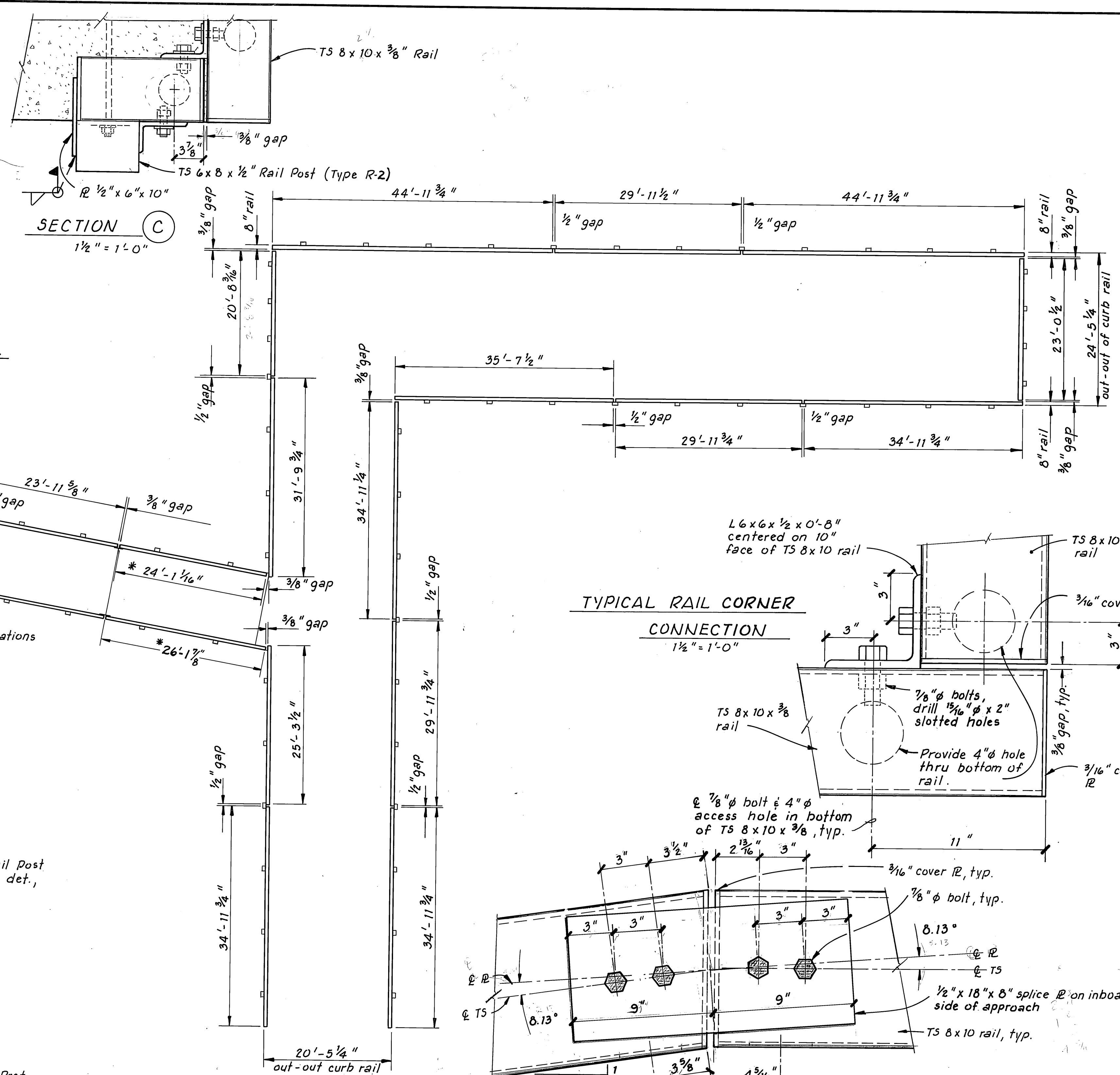
STUB RAIL CONNECTION DETAIL
1 $\frac{1}{2}$ " = 1'-0"



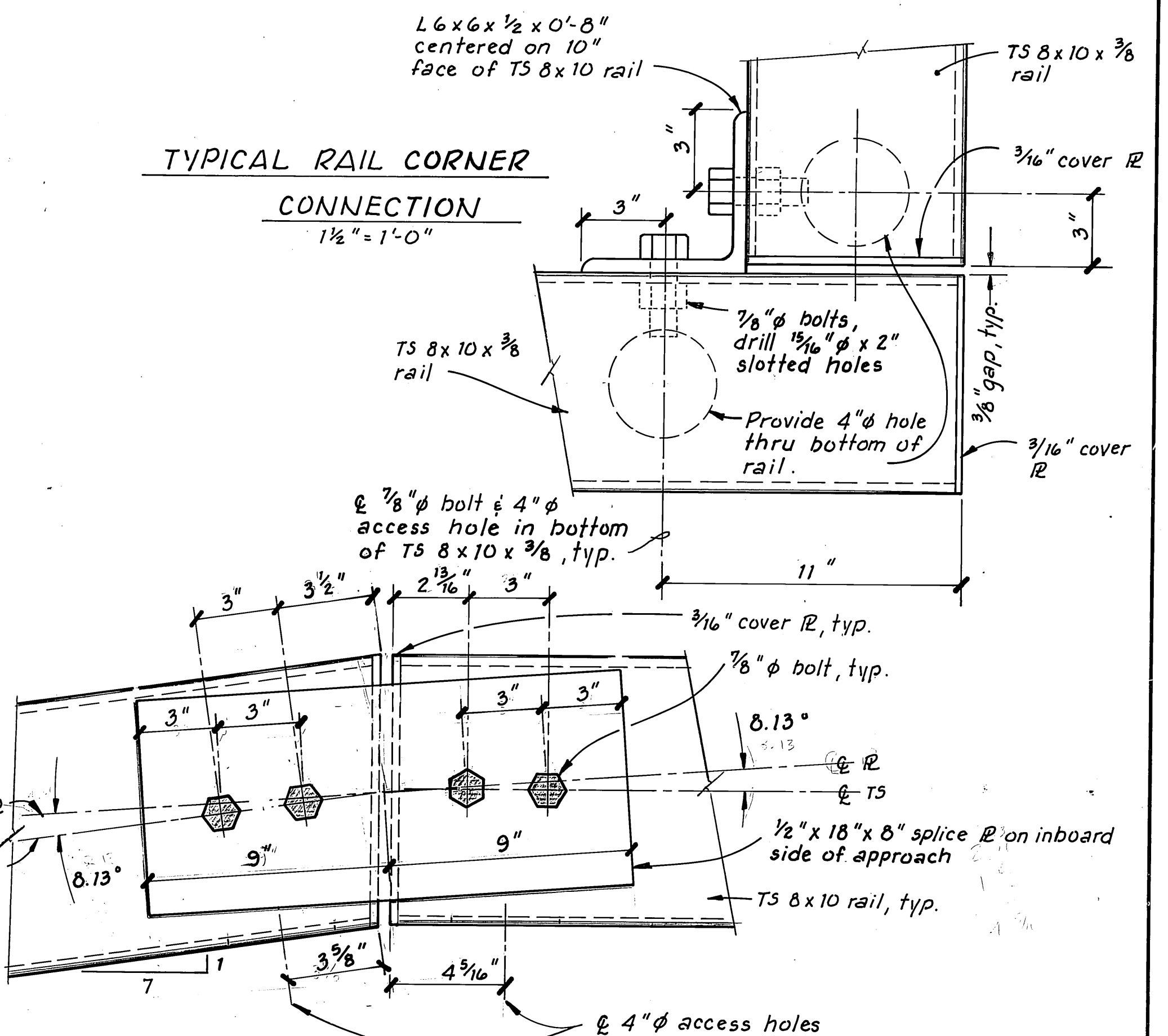
SECTION A
1 $\frac{1}{2}$ " = 1'-0"



SPECIAL POST & RAIL CONNECTION DETAIL
1 $\frac{1}{2}$ " = 1'-0"



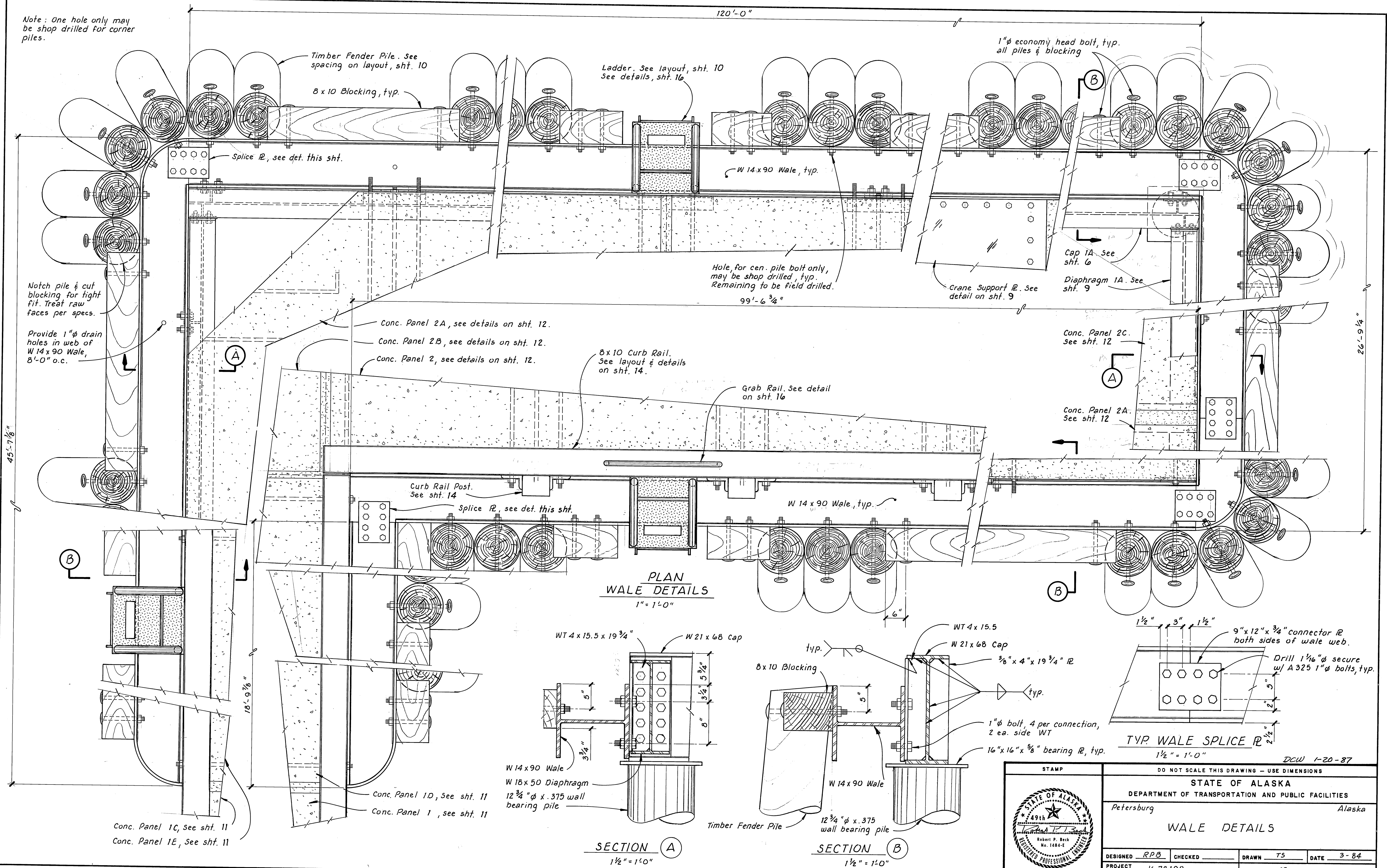
CURB RAIL LAYOUT
1" = 10'
* Horizontal Length



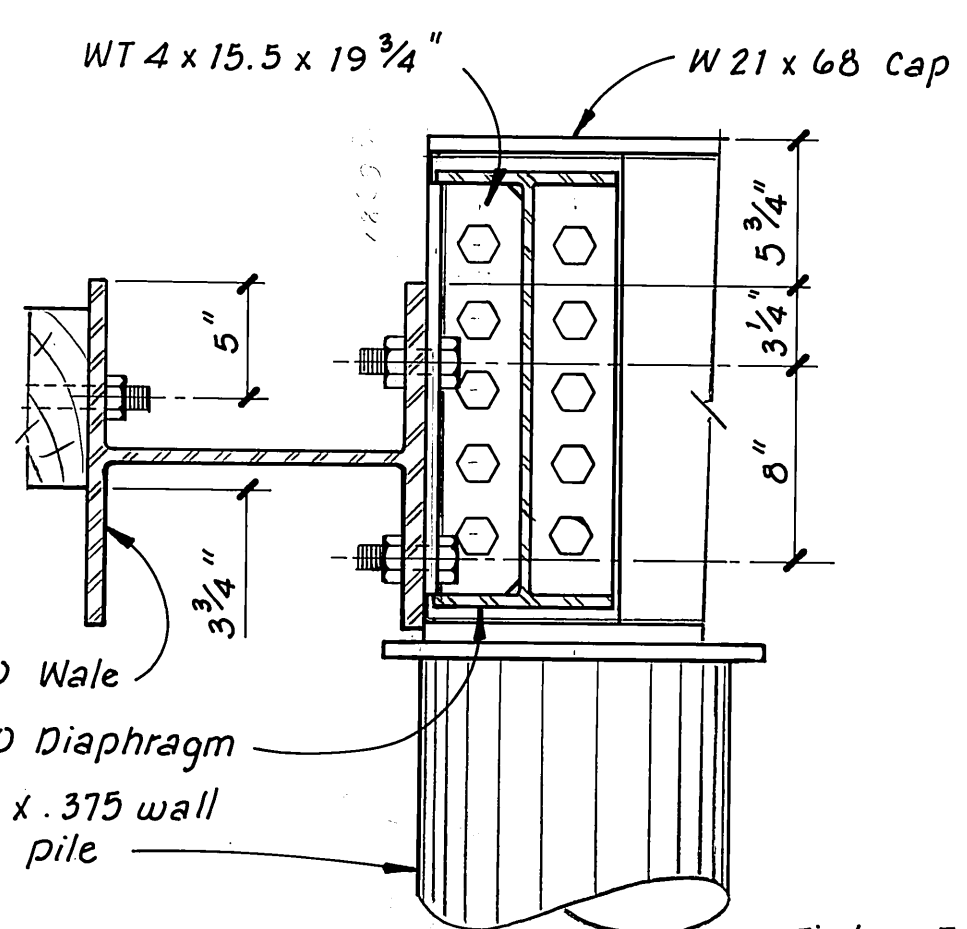
TYPICAL RAIL CORNER CONNECTION
1 $\frac{1}{2}$ " = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA 19th Robert P. Beck No. 14884-E REGISTERED PROFESSIONAL ENGINEER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES Petersburg Alaska	
DESIGNED RPB		CHECKED	
PROJECT NUMBER K-78190		DRAWN TS	
SHEET 14		DATE 2-84	
		OF 55	

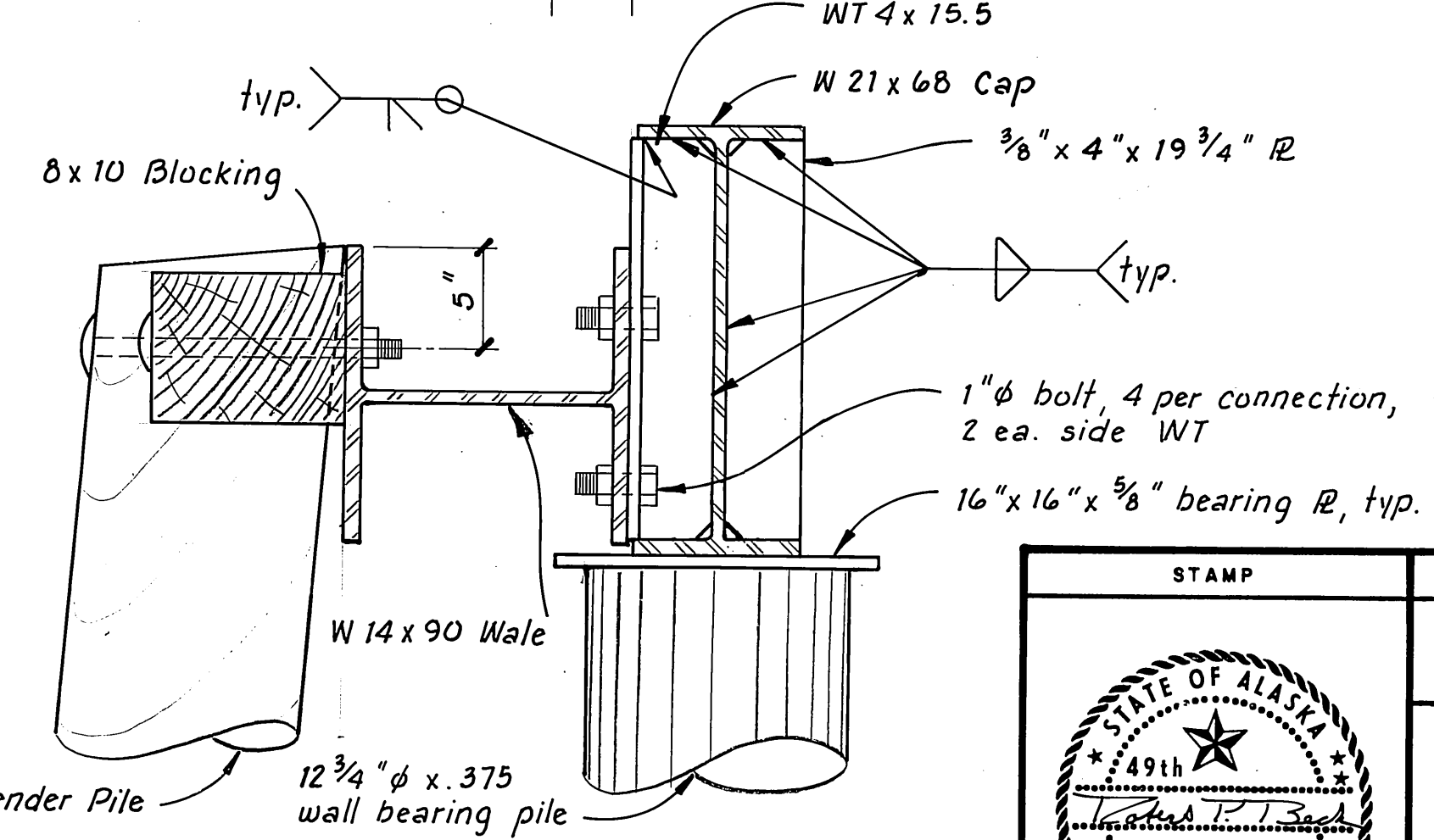
Note: One hole only may be shop drilled for corner piles.



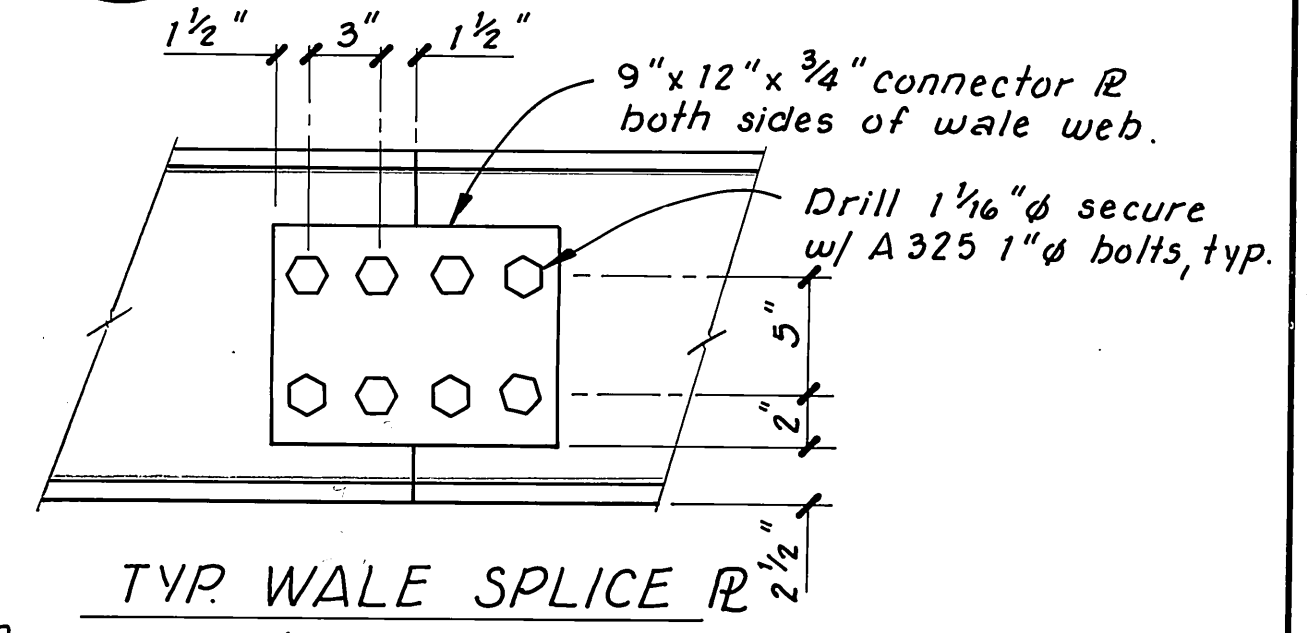
PLAN
WALE DETAILS
1" = 1'-0"



SECTION A
1 1/2" = 1'-0"



SECTION B
1 1/2" = 1'-0"



TYP. WALE SPLICE R

DLW 1-20-81

STAMP

A circular professional engineer seal for the State of Alaska. The outer ring contains the text "STATE OF ALASKA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by stars. Inside the ring, there is a five-pointed star with "49th" written below it. A signature, "Robert P. Beck", is written across the center. Below the signature, the text "Robert P. Beck" and "No. 1484-E" are printed.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA

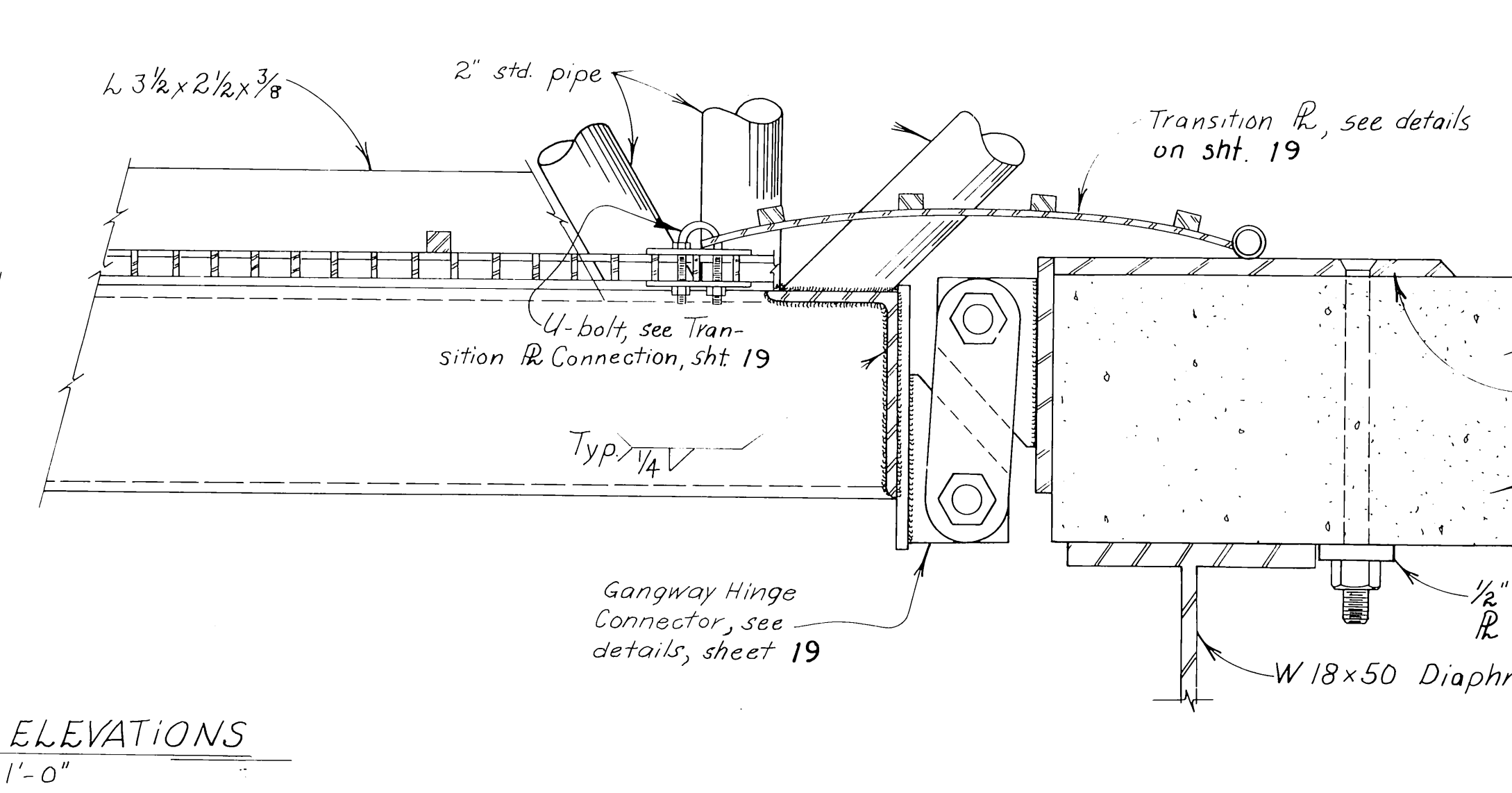
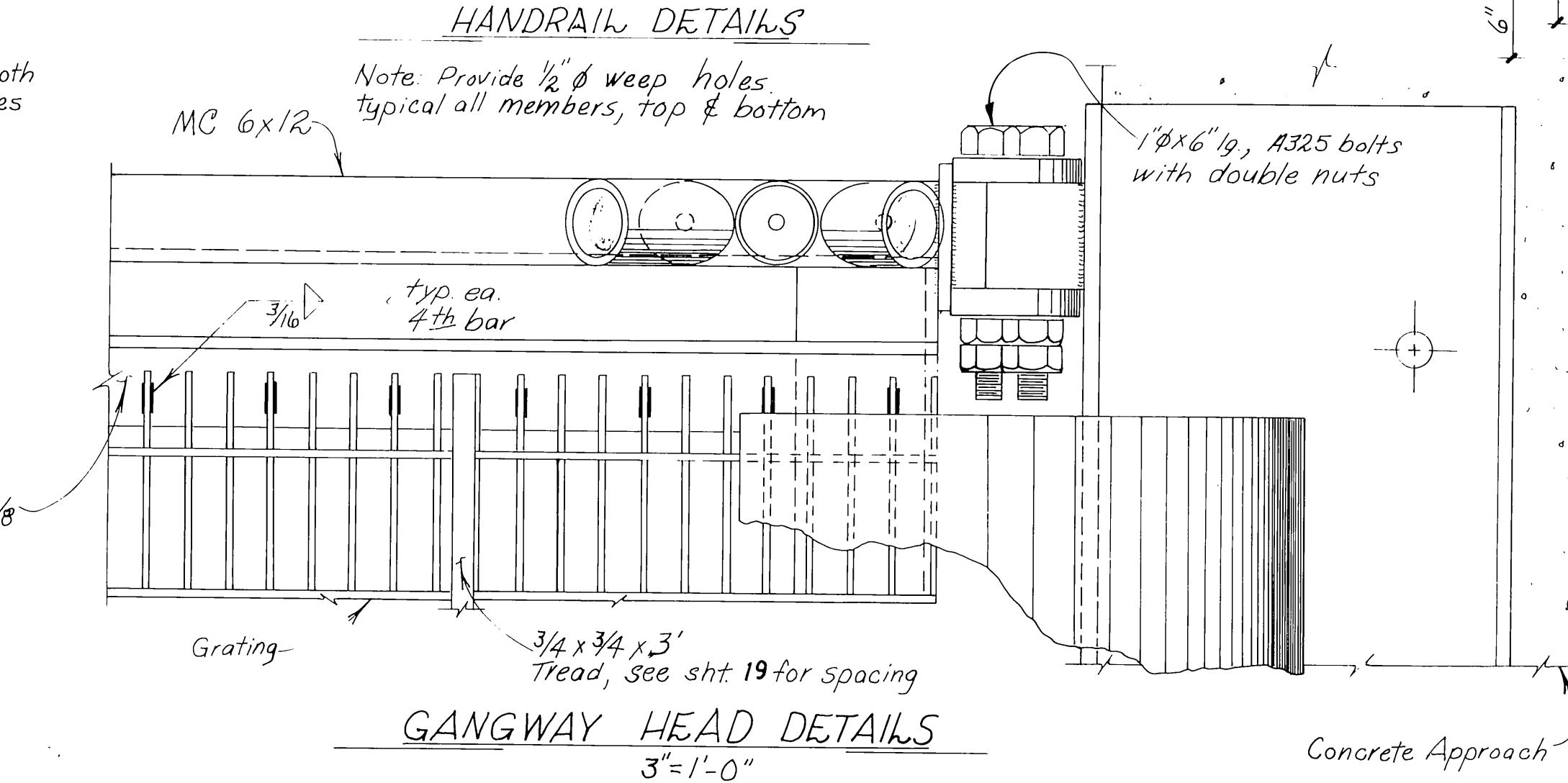
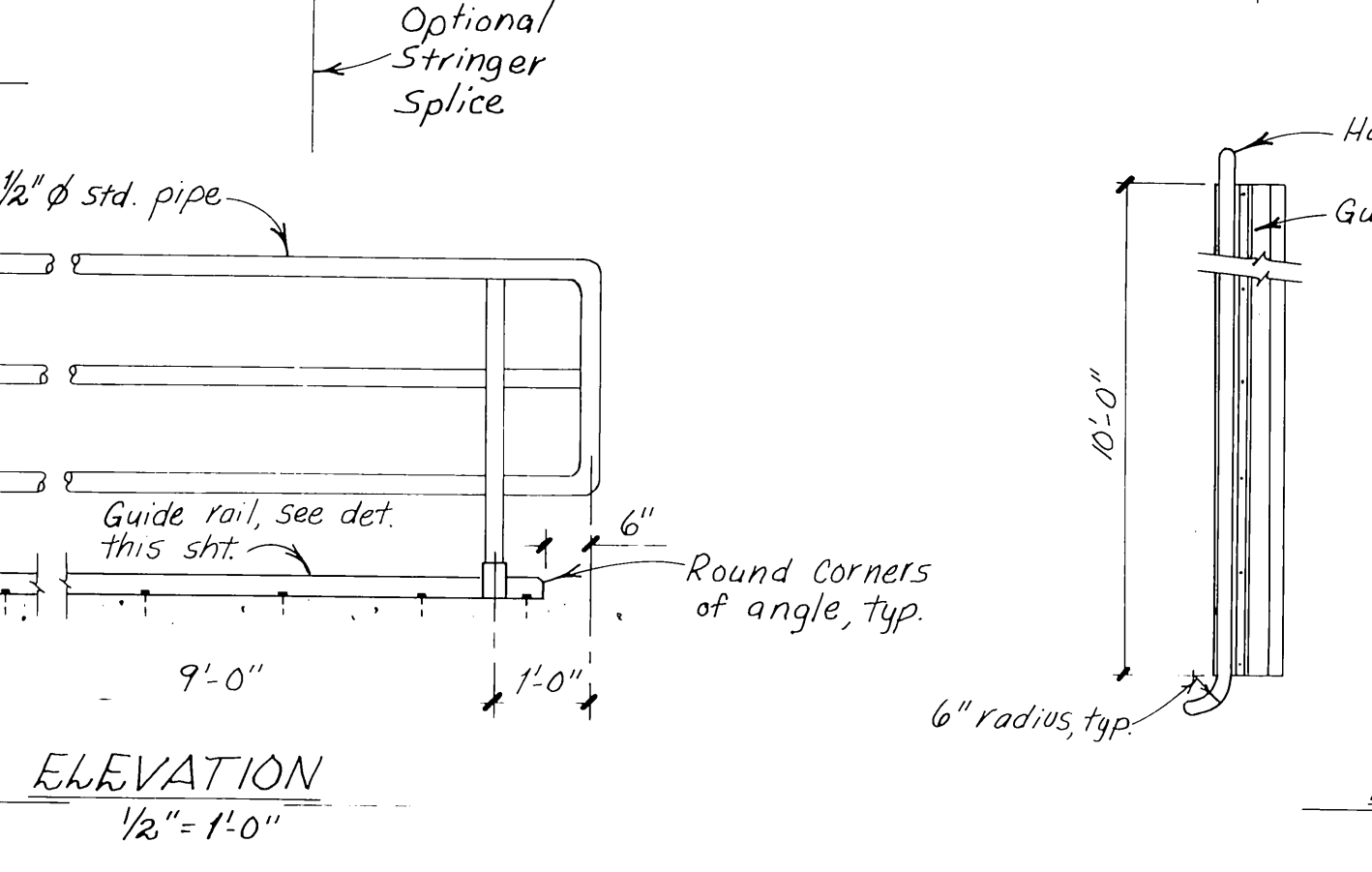
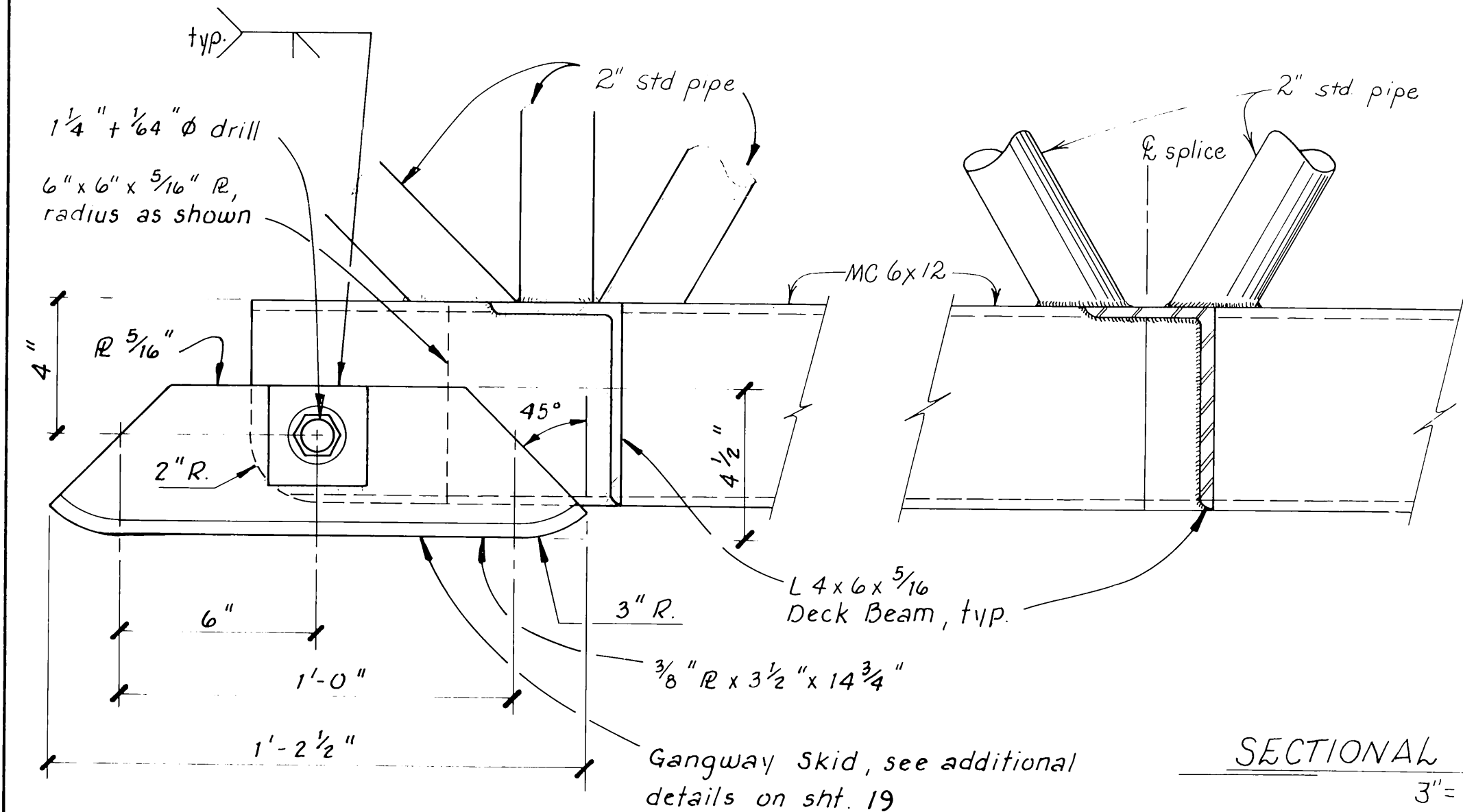
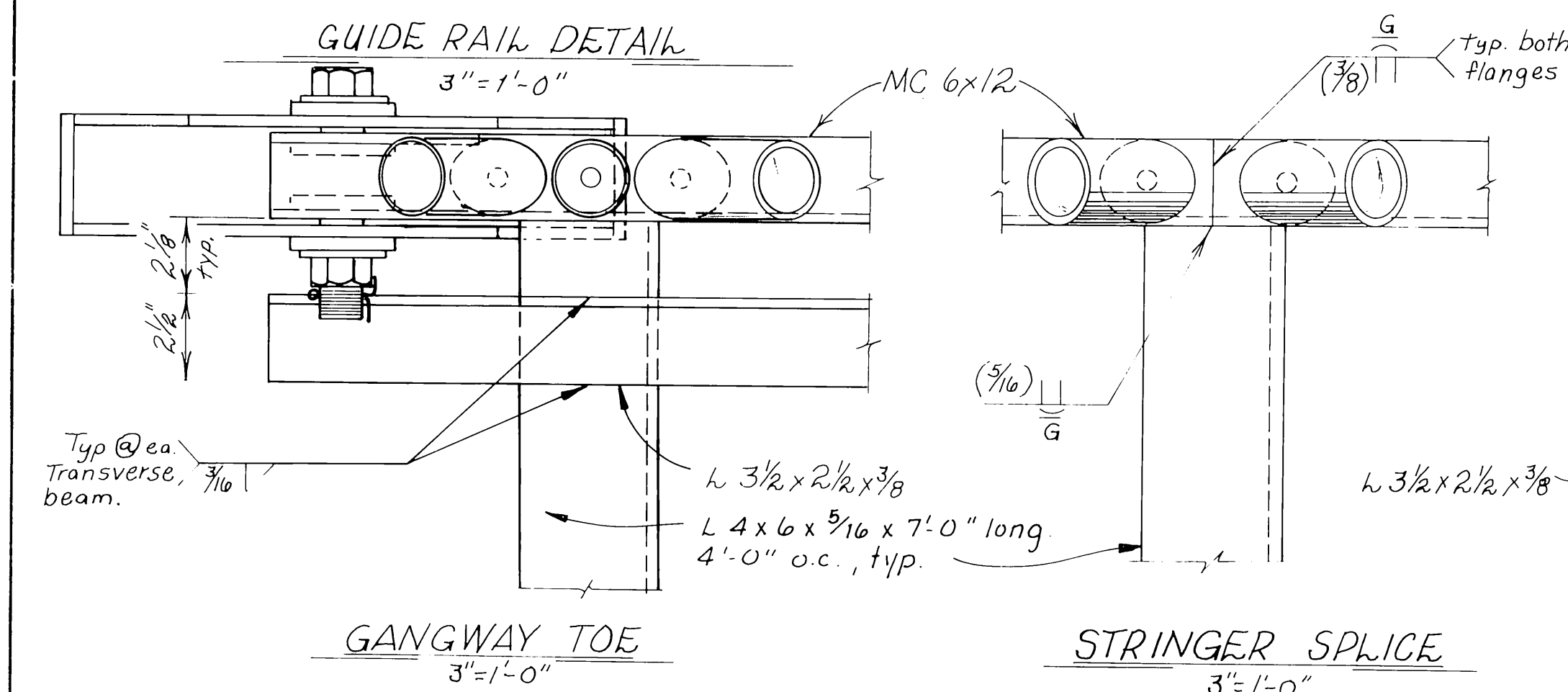
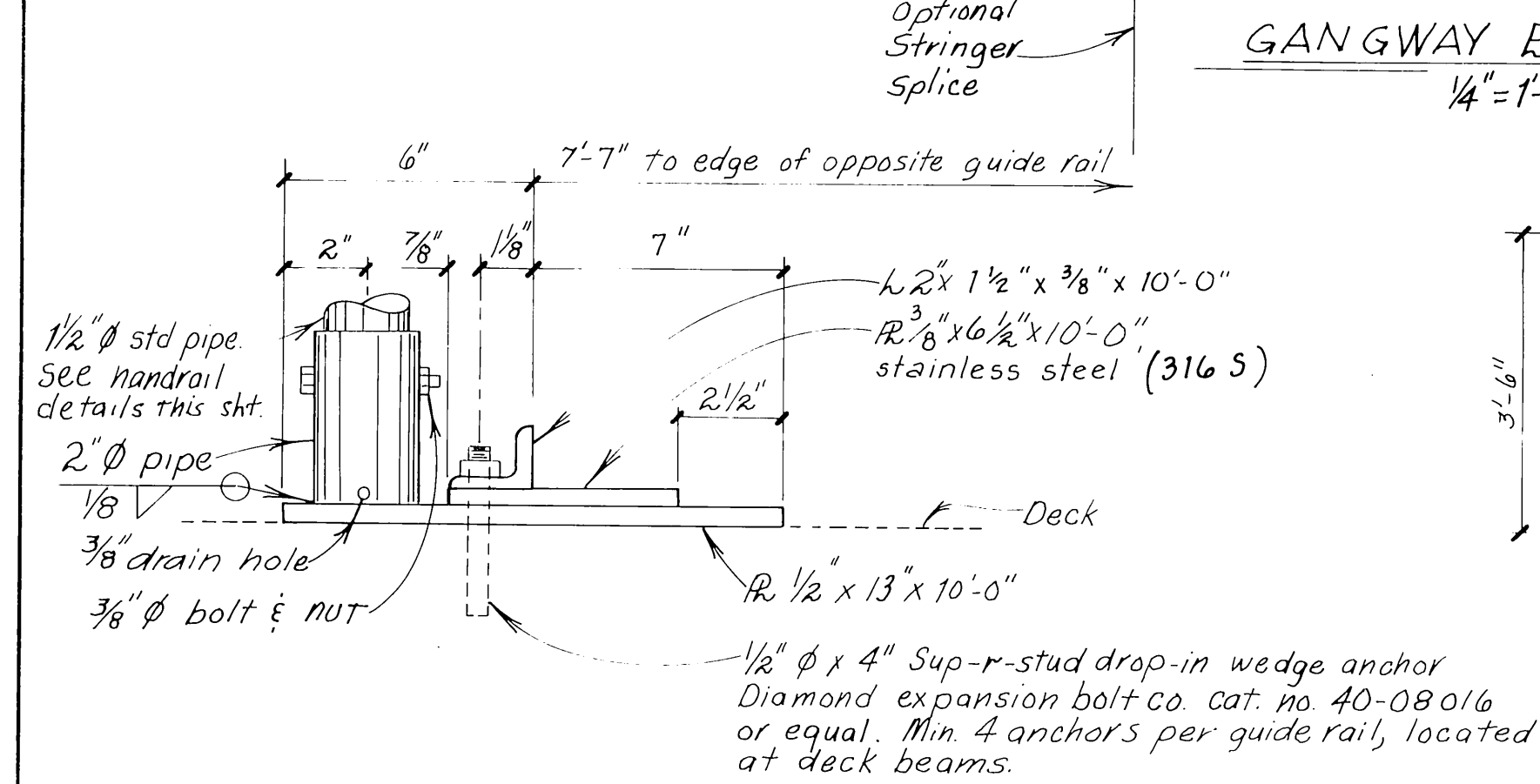
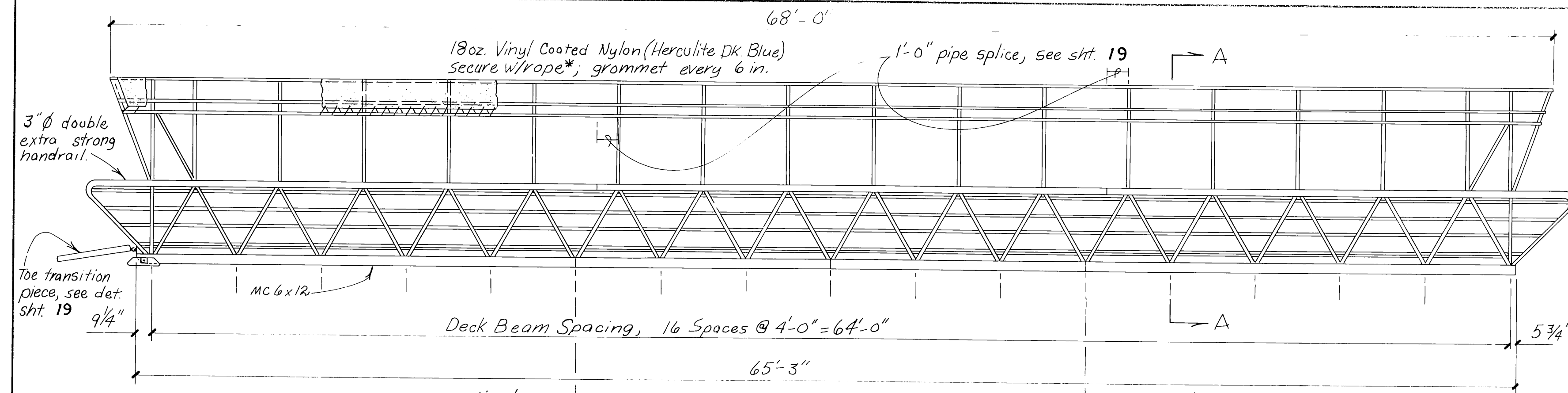
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg

Alaska

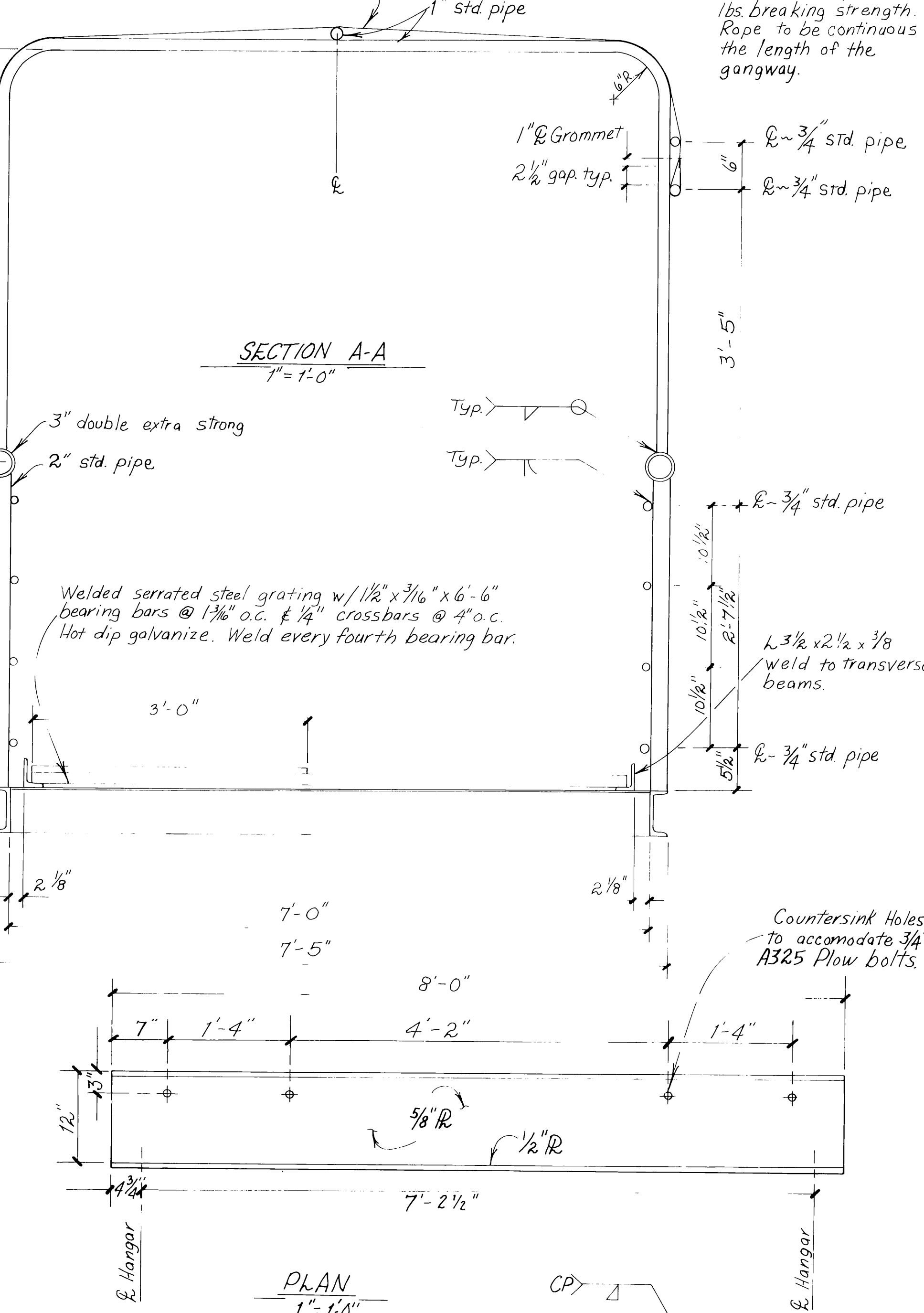
WALE DETAILS

DESIGNED <u>RPB</u>	CHECKED _____	DRAWN <u>TS</u>	DATE <u>3-84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>15</u>		OF <u>55</u>



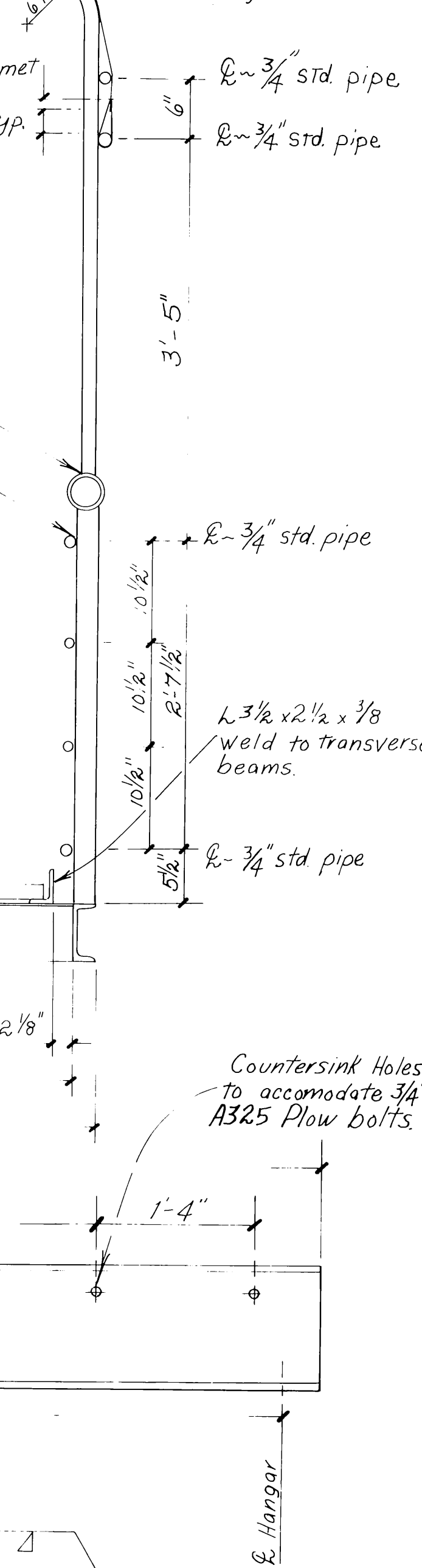
Note: Cover Fabricator shall take fabric & seam stretch into account when sizing.

18oz. Vinyl Coated Nylon (Herculite DK Blue) secure w/ rope*, grommet every 6"

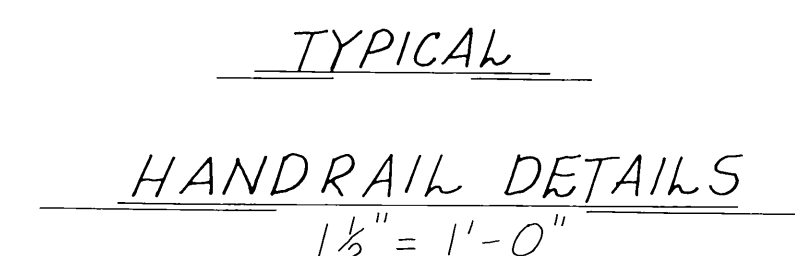
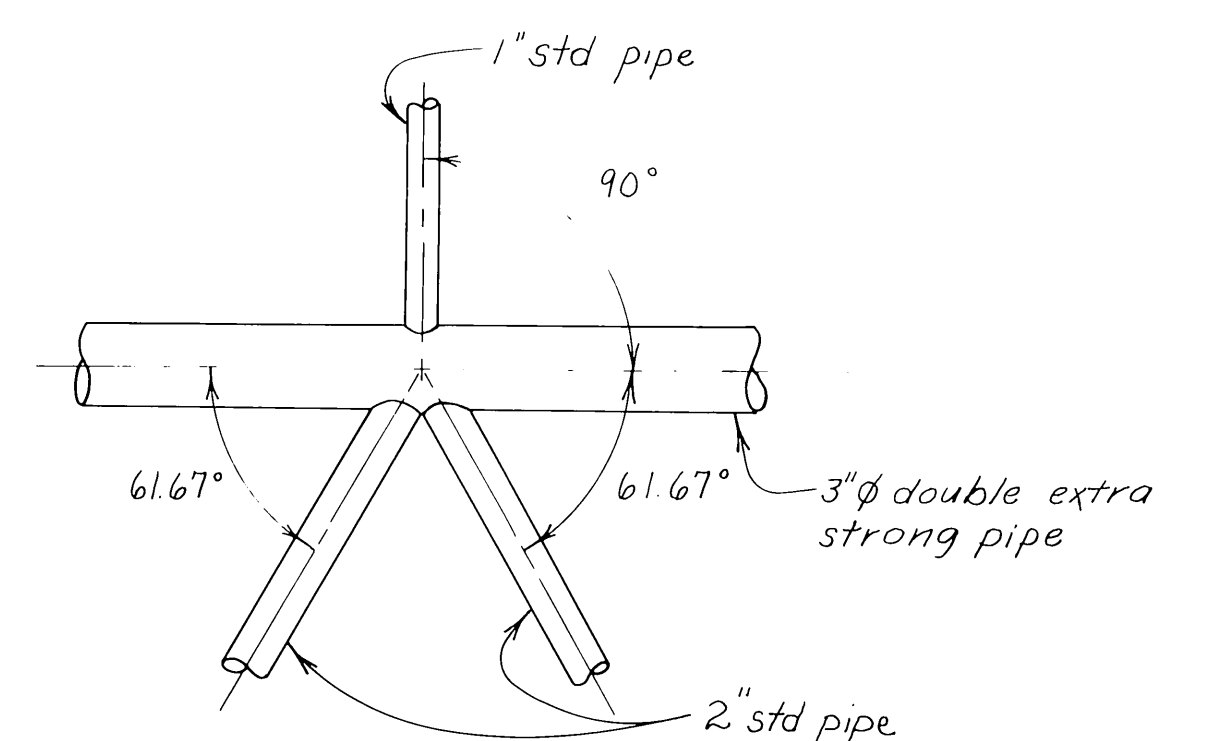
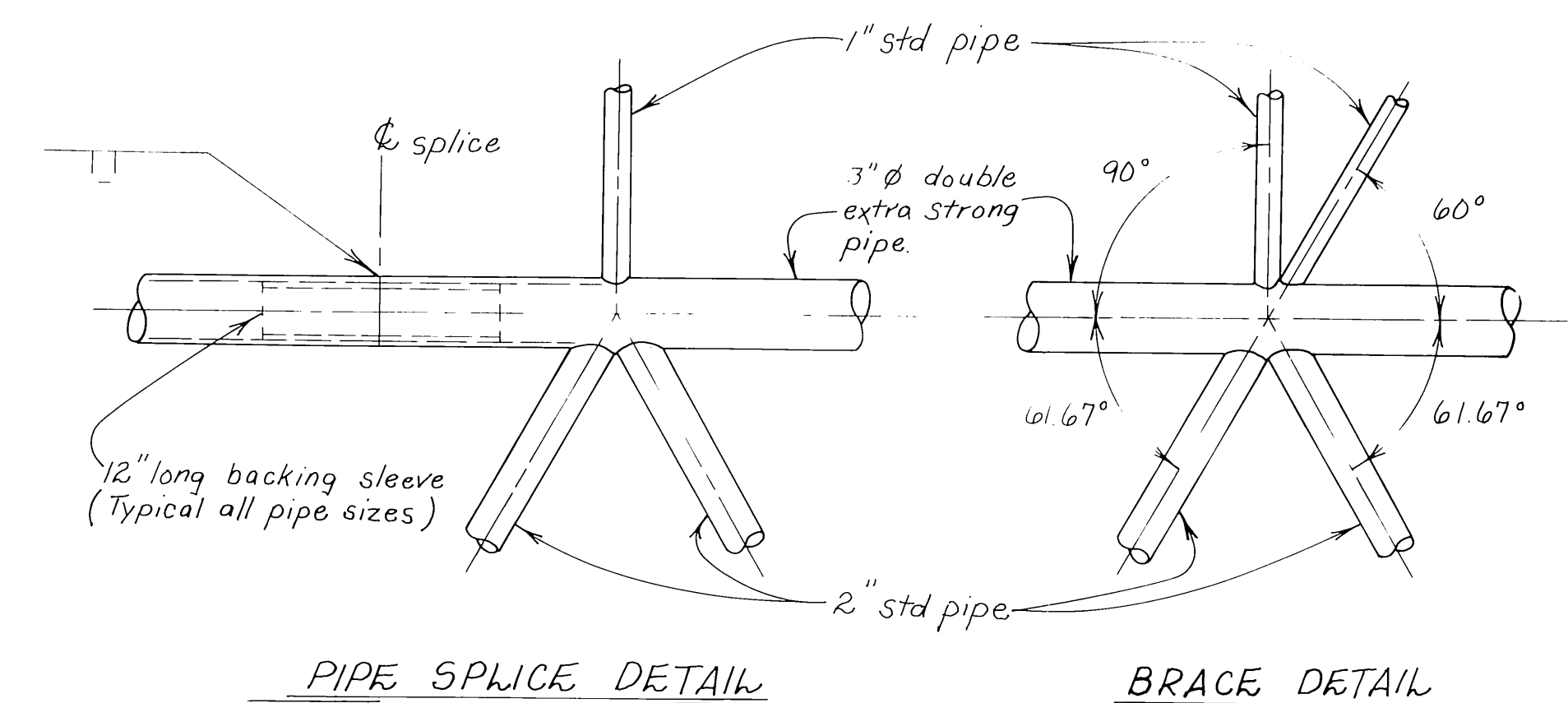
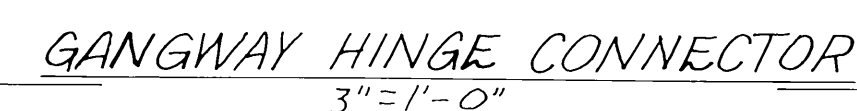
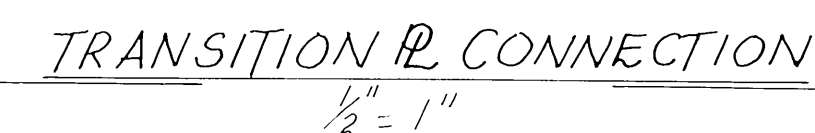
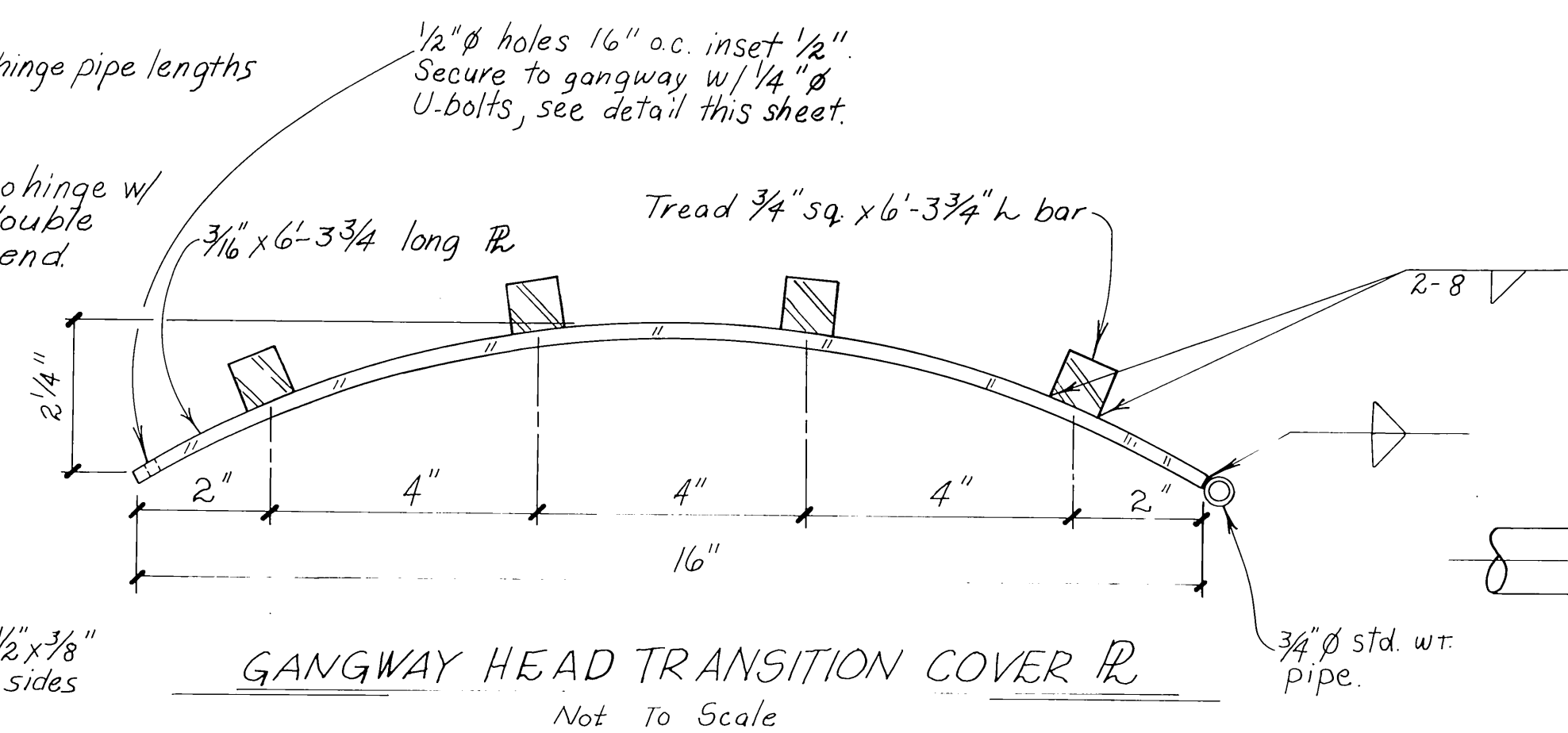
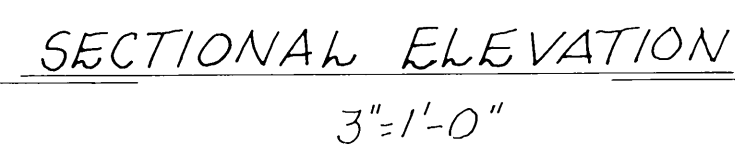
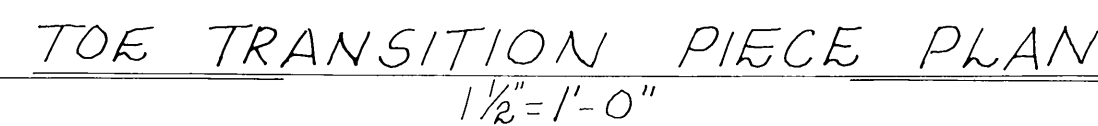


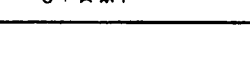
- NOTES
- Design live load 85psf. Snow Load 20psf.
 - All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500 and shall be galvanized.
 - All shapes & plates shall conform to ASTM A-36 and shall be galvanized.
 - Ship assembled except cover may be shipped separately.
 - Approx. Gangway Weight = 14,000#
 - No splices within middle third of gangway
 - Fabricated with excess lumber (6"±) Gangway hanger, see det. this sheet field bolt plate to panel w/ 3/4" x 12" A325 Plow bolts, 4 req'd.

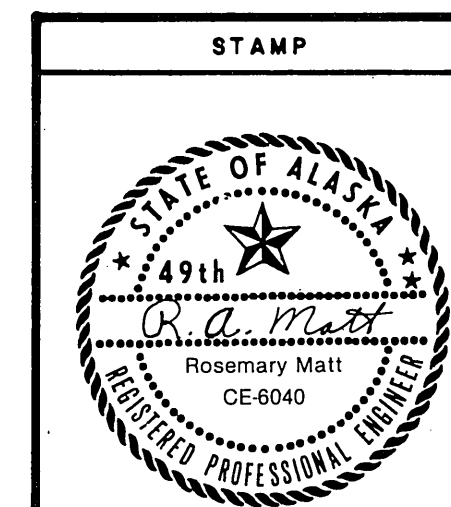
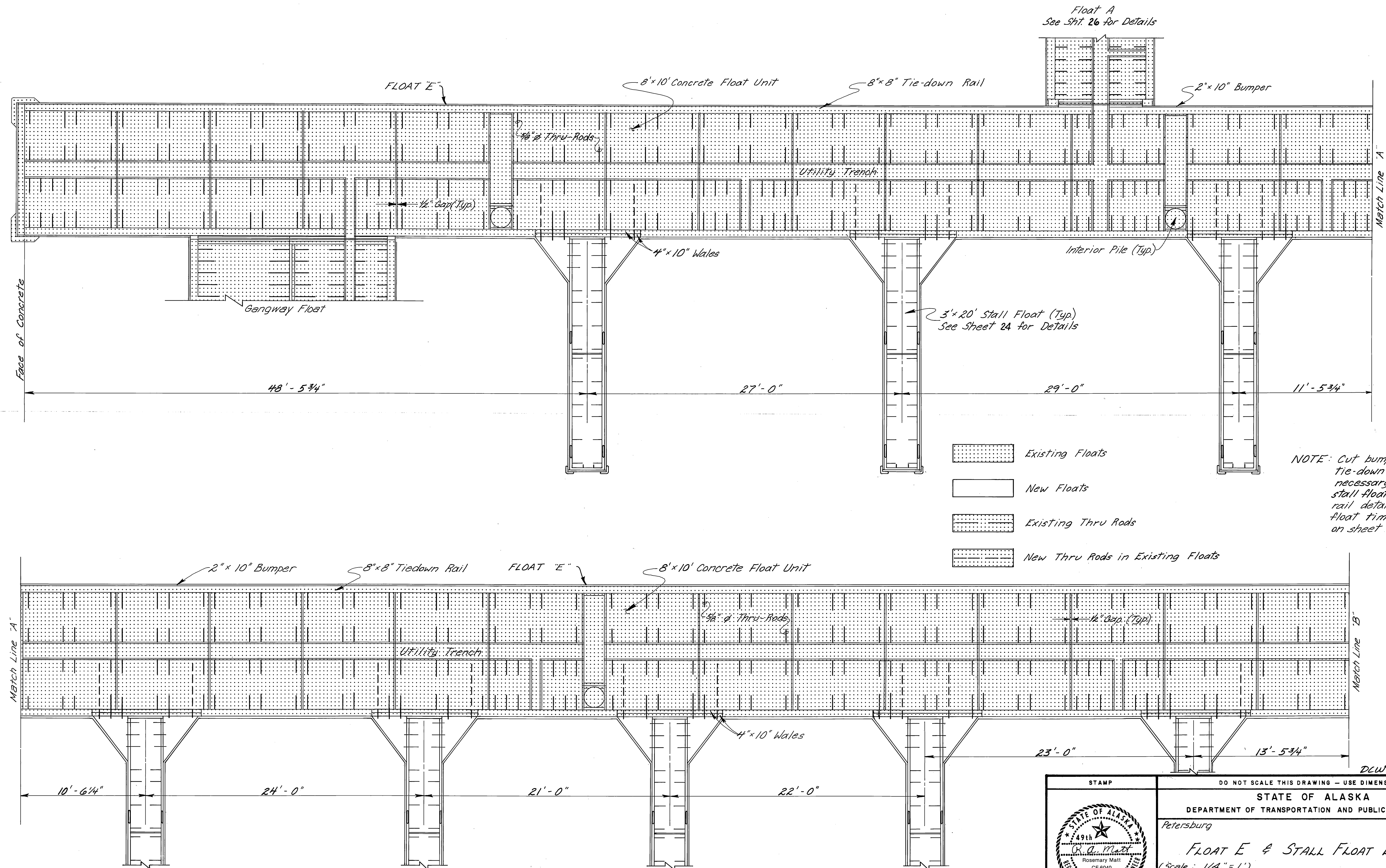
* Rope 1/4" dacron braided, white, 1650 lbs. breaking strength. Rope to be continuous the length of the gangway.



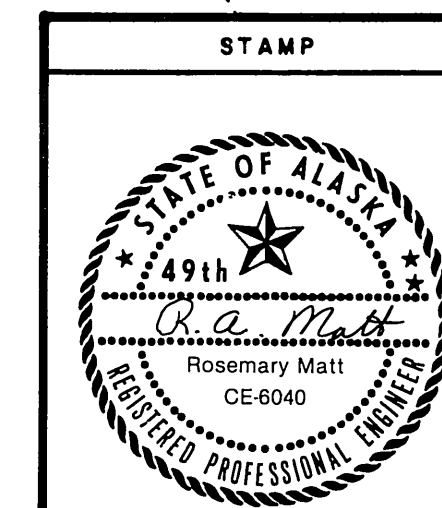
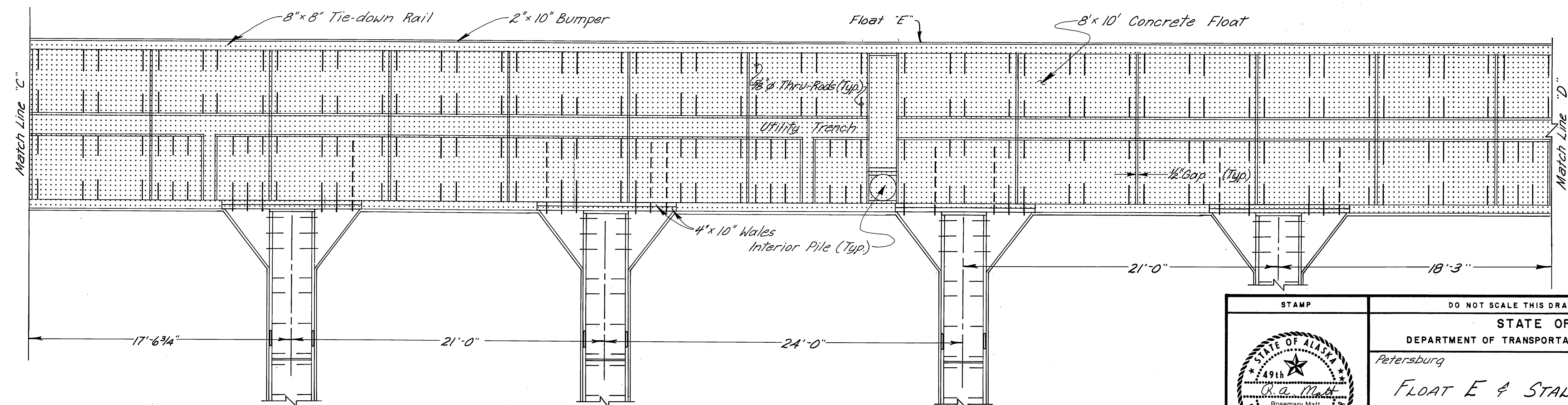
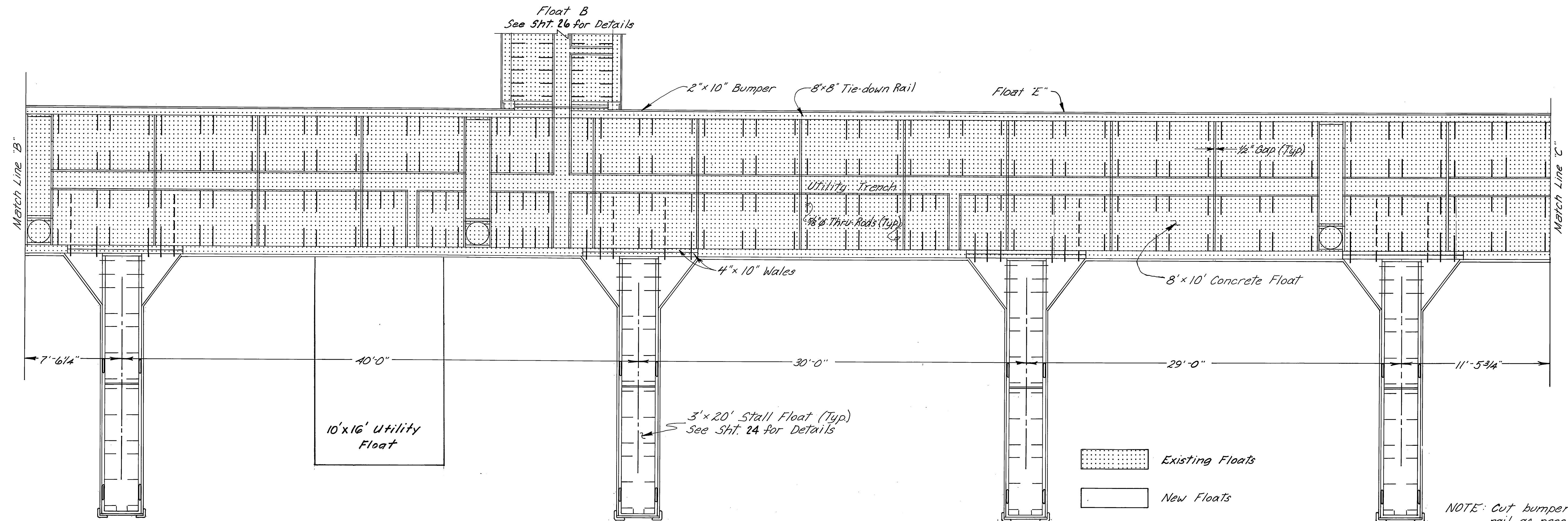
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
7'-5" x 65'-0" COVERED STEEL GANGWAY		SHEET A	
DESIGNED staff	CHECKED	DRAWN MC	DATE 2/28/84
PROJECT NUMBER K78190	SHEET 10		OF 55



	DO NOT SCALE THIS DRAWING — USE DIMENSIONS		
	STATE OF ALASKA		
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
	PETERSBURG		ALASKA
	7'-5" x 65'-0" COVERED STEEL GANGWAY		
	SHEET B		
DESIGNED <u>HRM/LDB</u>	CHECKED _____	DRAWN <u>MARK</u>	DATE <u>2-84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>19</u>		OF <u>55</u>

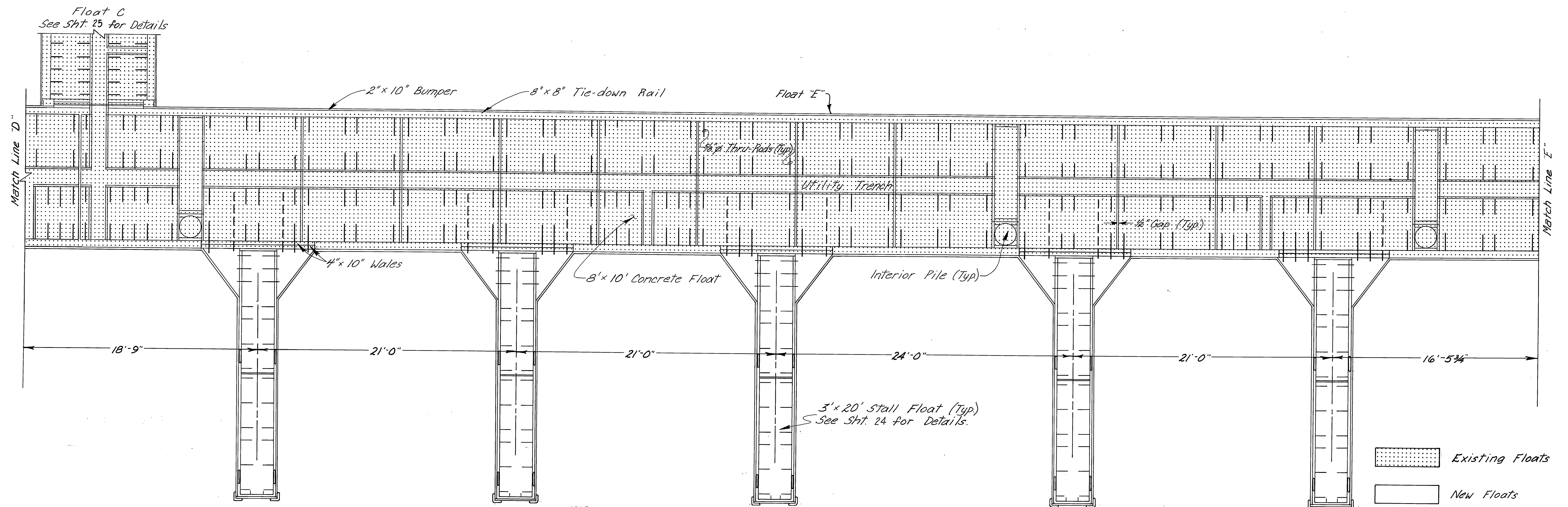


DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
FLOAT E & STALL FLOAT LAYOUT			
(Scale: 1/4"=1')			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>MEB</u>	DATE <u>1/84</u>
PROJECT NUMBER <u>K78190</u>	SHEET <u>20</u> OF <u>55</u>		

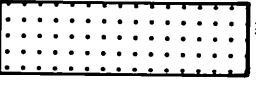
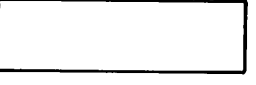
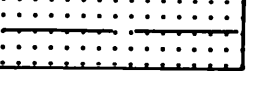
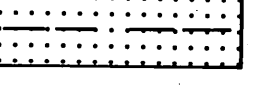


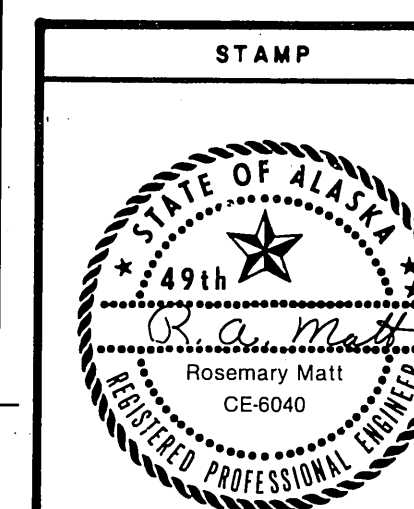
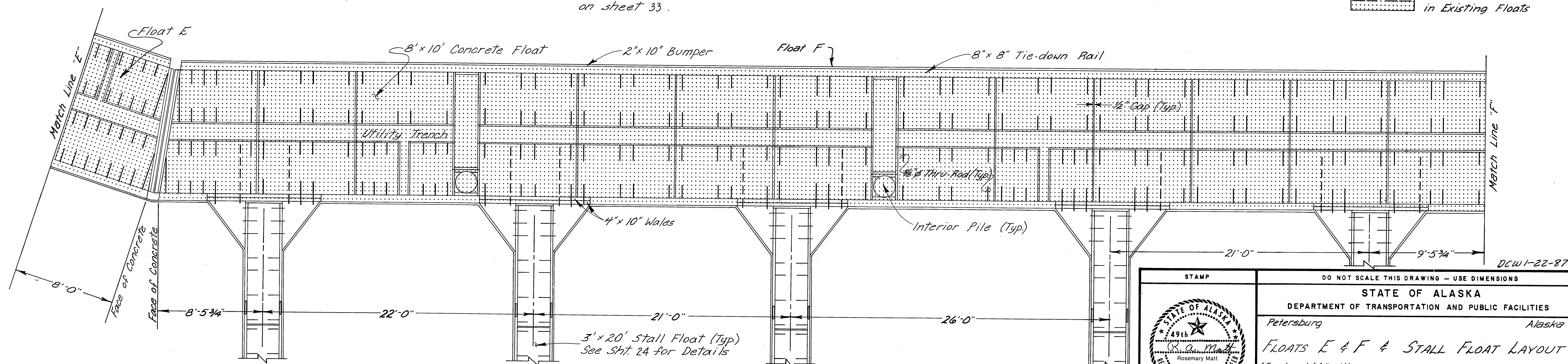
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
FLOAT E & STALL FLOAT LAYOUT			
(Scale: 1/4" = 1')			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>MEB</u>	DATE <u>1/84</u>
PROJECT NUMBER <u>K78190</u>		SHEET <u>21</u> OF <u>55</u>	

DCW 1-22-87



NOTE: Cut bumper board & tie-down rail, as necessary, to install stall floats. See tie-down rail detail & typical float timber detail on sheet 33.

-  Existing Floats
-  New Floats
-  Existing Thru Rods
-  New Thru Rods in Existing Floats



2607 22-01

DO NOT SCALE THIS DRAWING — USE DIMENSIONS

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg

Alaska

FLOATS E & F & STALL FLOAT LAYOUT

(Scale: 1/4" = 1')

DESIGNED RAM

CHECKED _____

DRAWN MEB

DATE 1/84

PROJECT
NUMBER

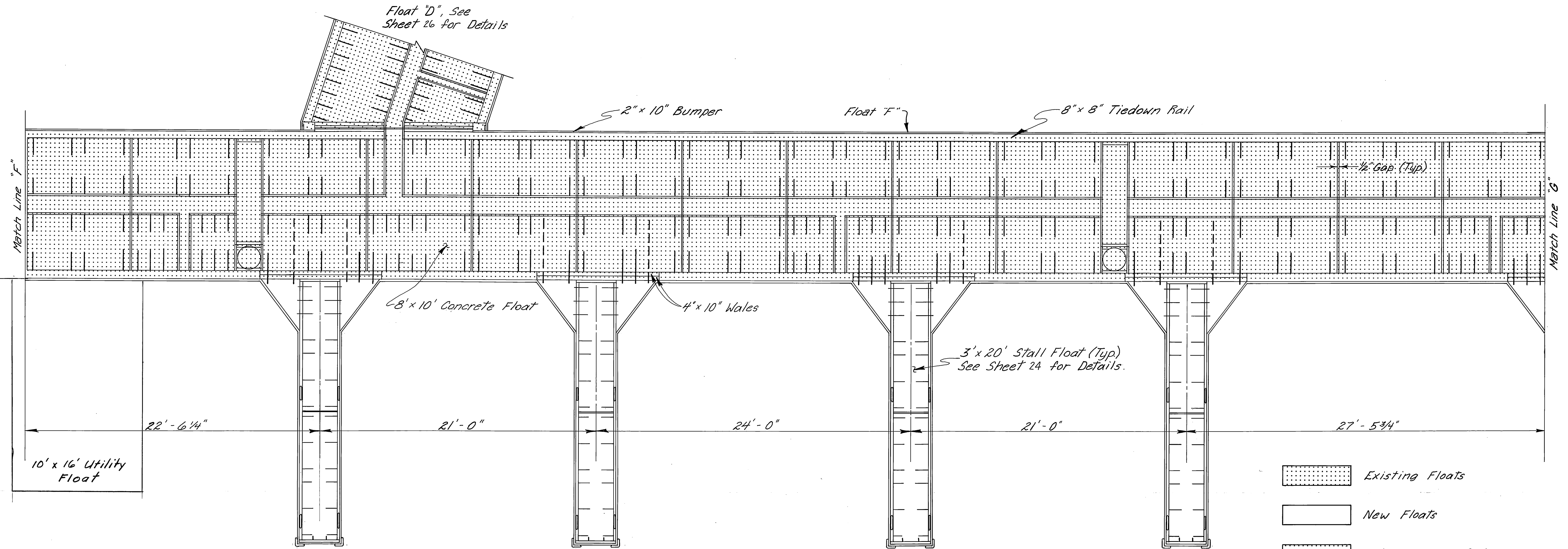
K78190

SHEET

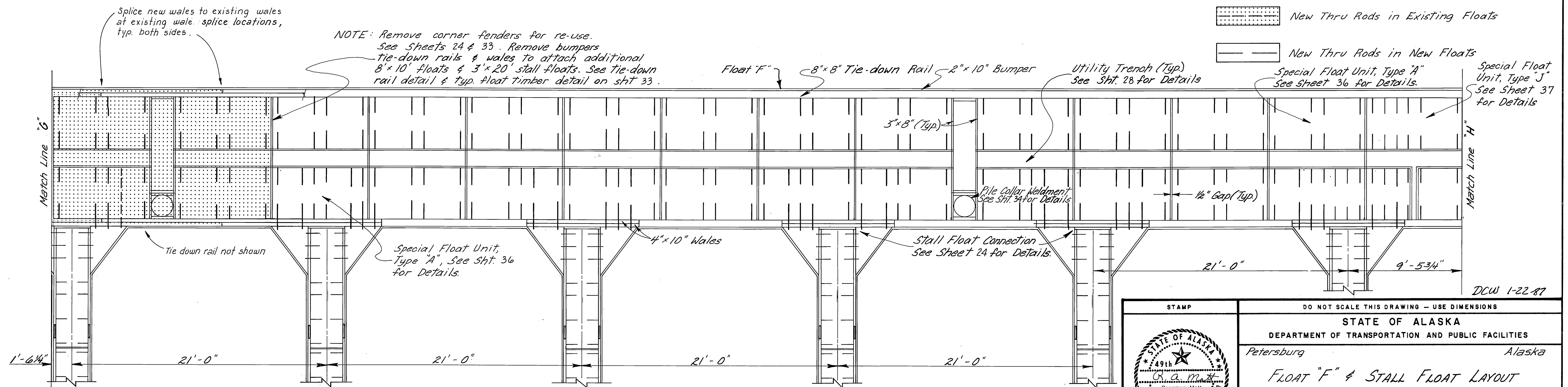
22

OF

55



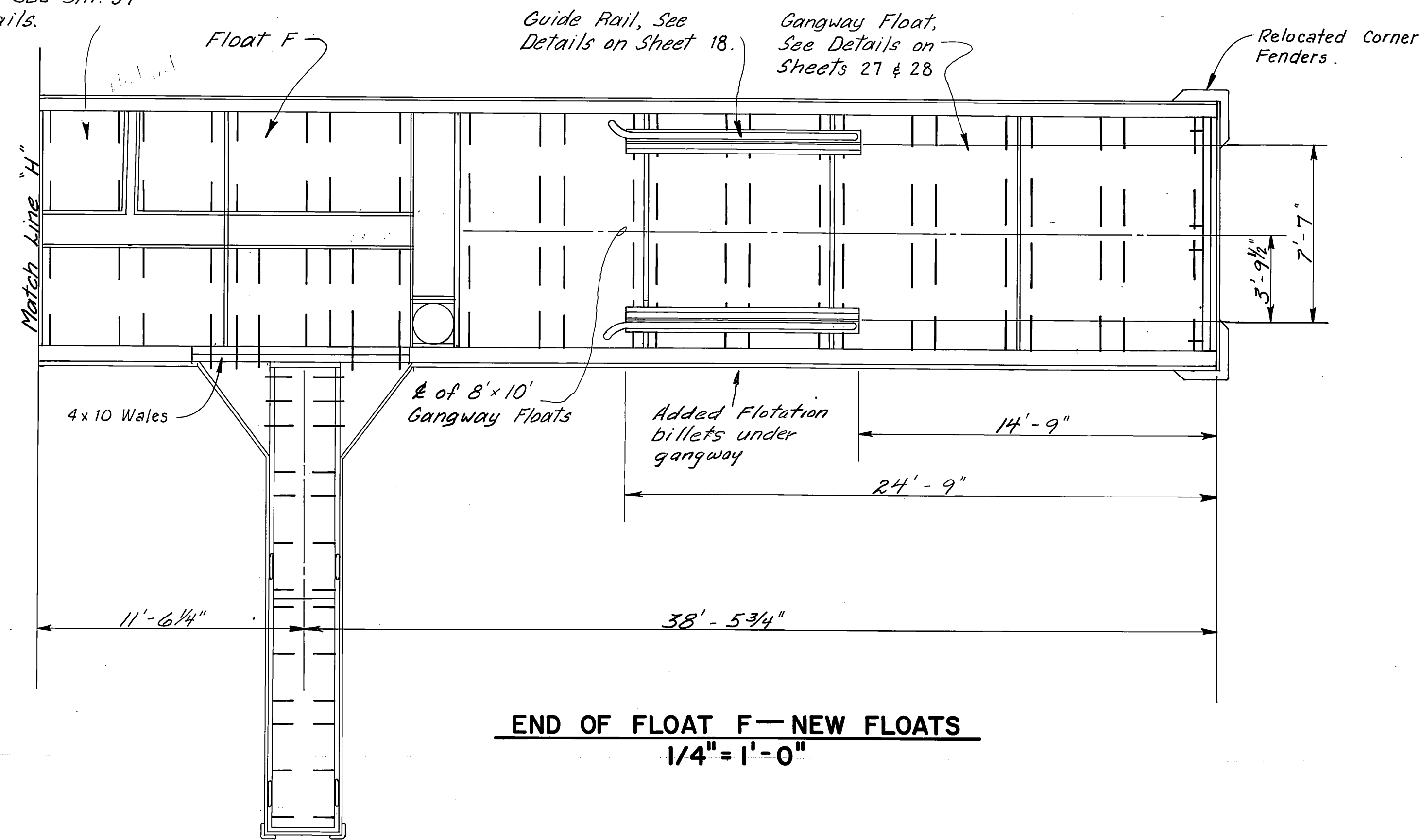
- Existing Floats
- New Floats
- Existing Thru Rods
- New Thru Rods in Existing Floats
- New Thru Rods in New Floats



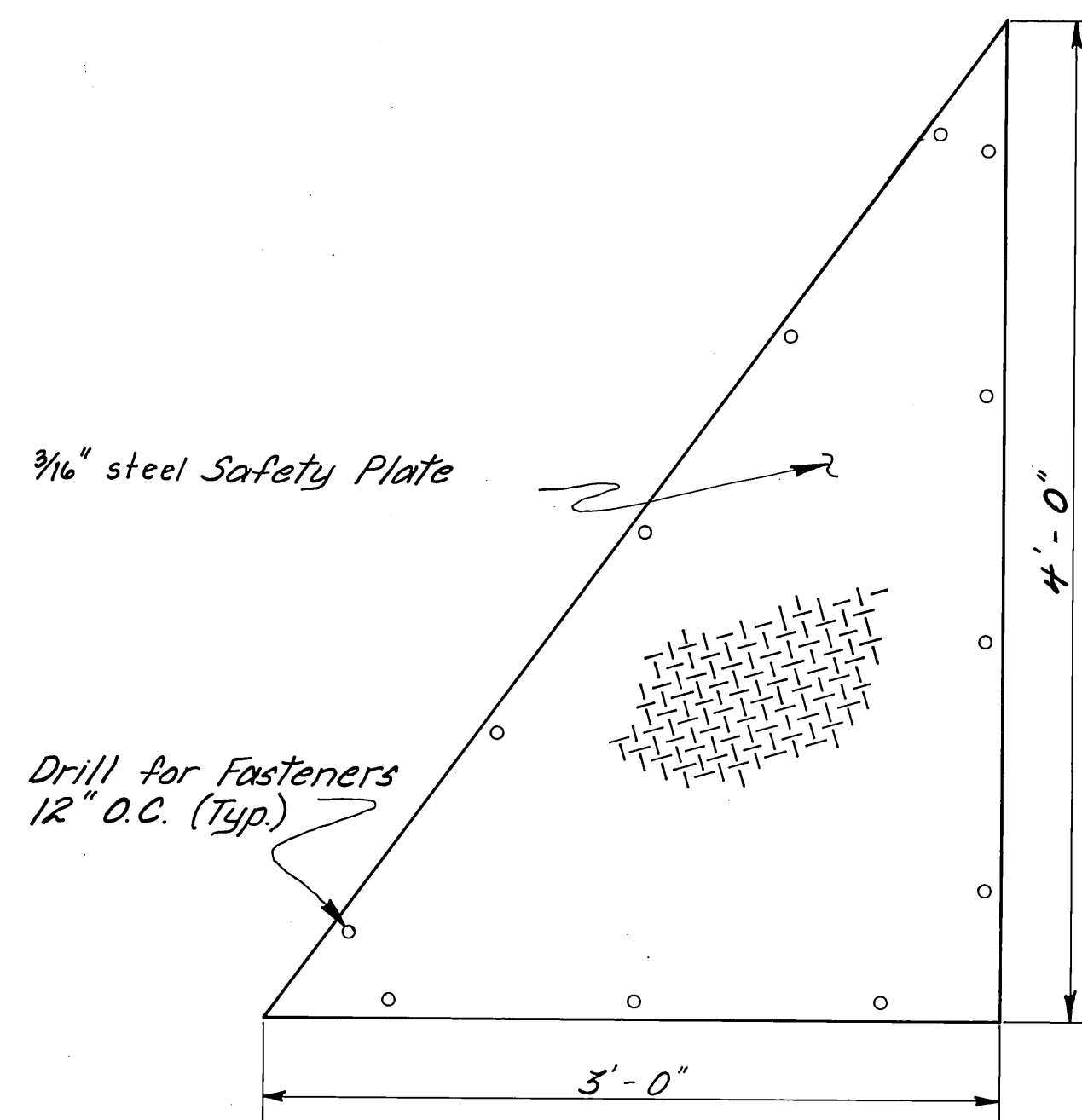
DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
FLOAT "F" & STALL FLOAT LAYOUT			
(Scale: 1/4" = 1')			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>MEB</u>	DATE <u>1/84</u>
PROJECT NUMBER <u>K7B/90</u>		SHEET <u>23</u> OF <u>55</u>	

Special Float Unit,
Type "H", See Sht. 37
for Details.

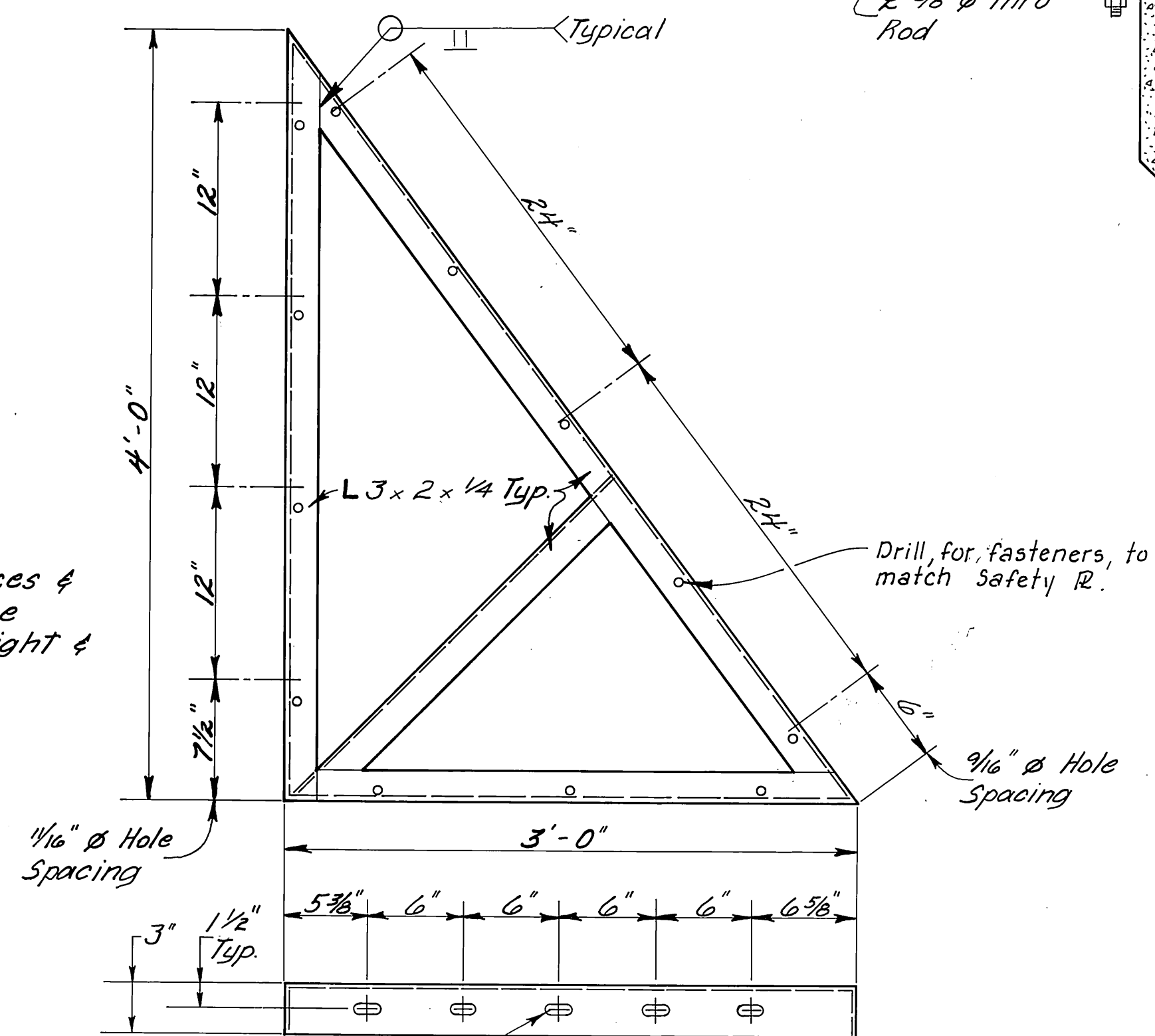


END OF FLOAT F—NEW FLOATS
1/4" = 1'-0"

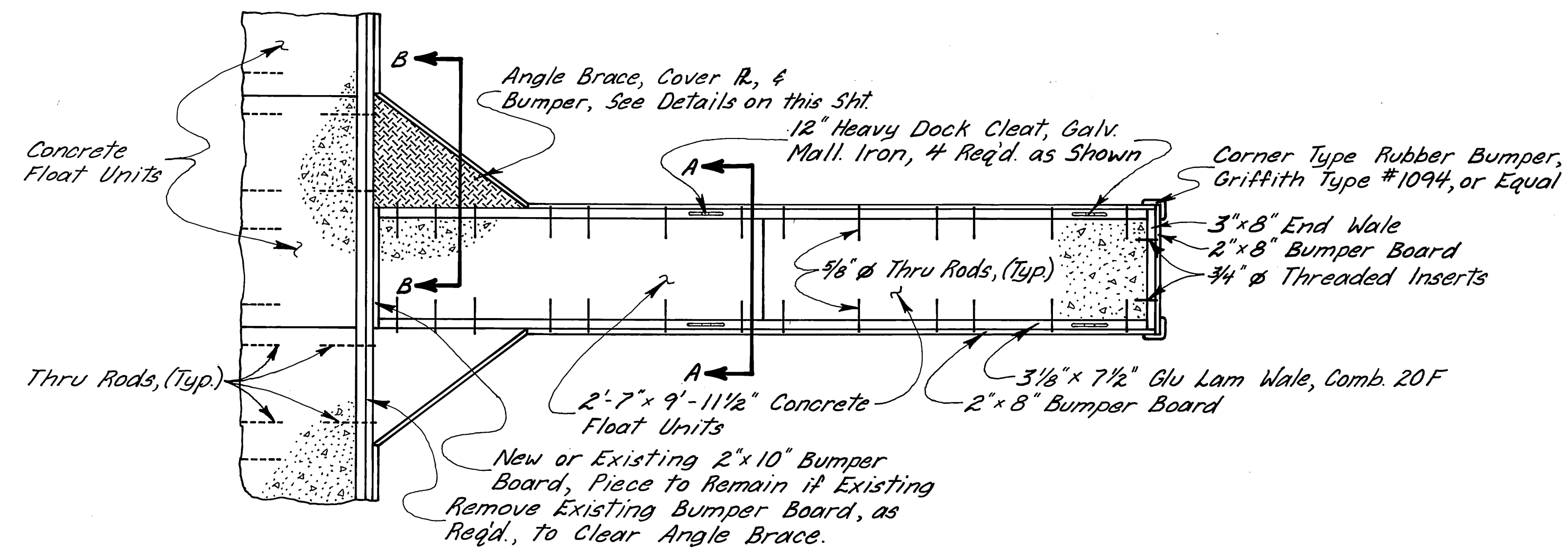


ANGLE BRACE COVER PLATE
1-1/2" = 1'-0"

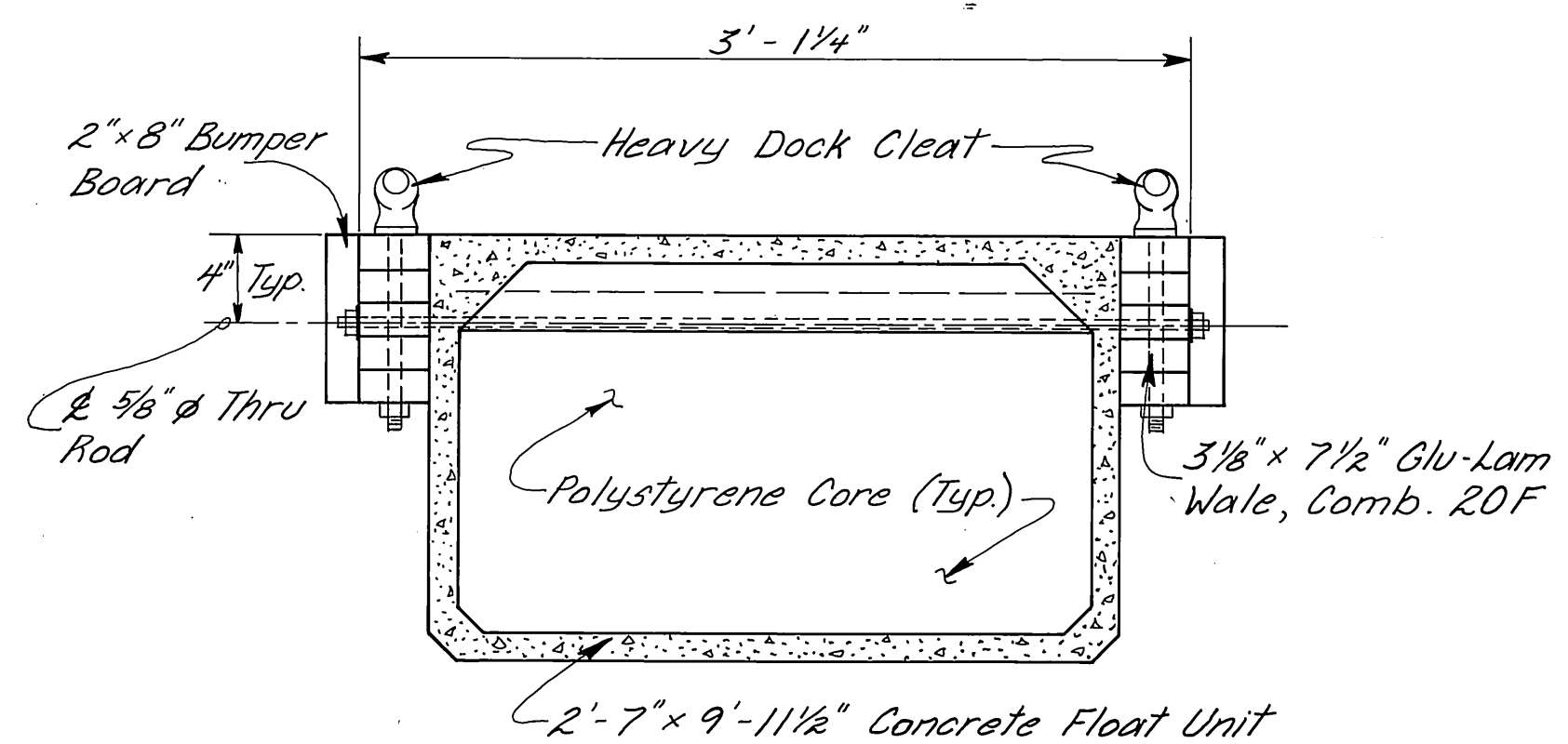
NOTE: Angle Braces &
Cover Plates to be
Fabricated for Right &
Left Sides.



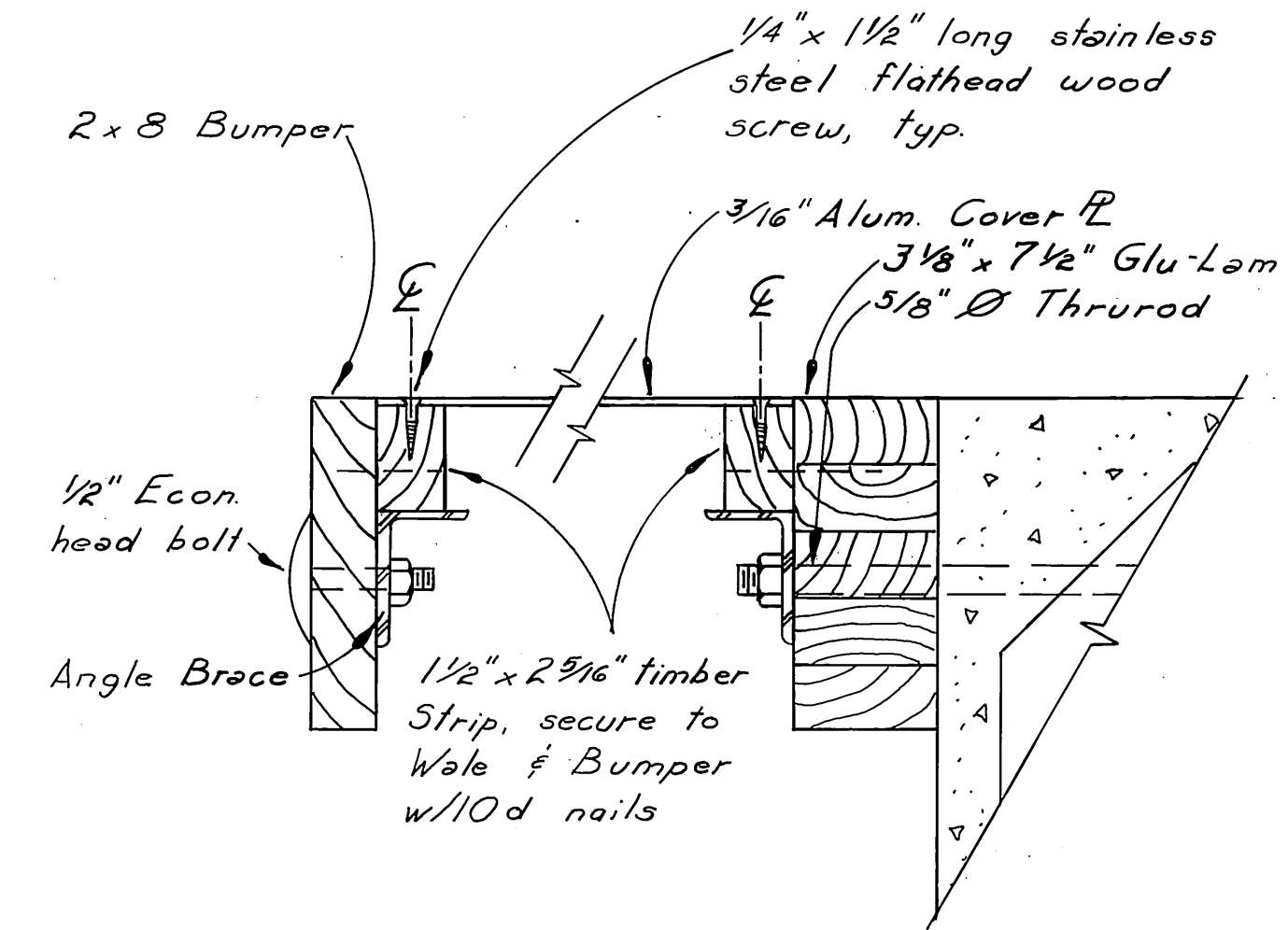
ANGLE BRACE
1-1/2" = 1'-0"



3' x 20' STALL FLOAT (74.1 S.F.)
3/8" = 1'-0"



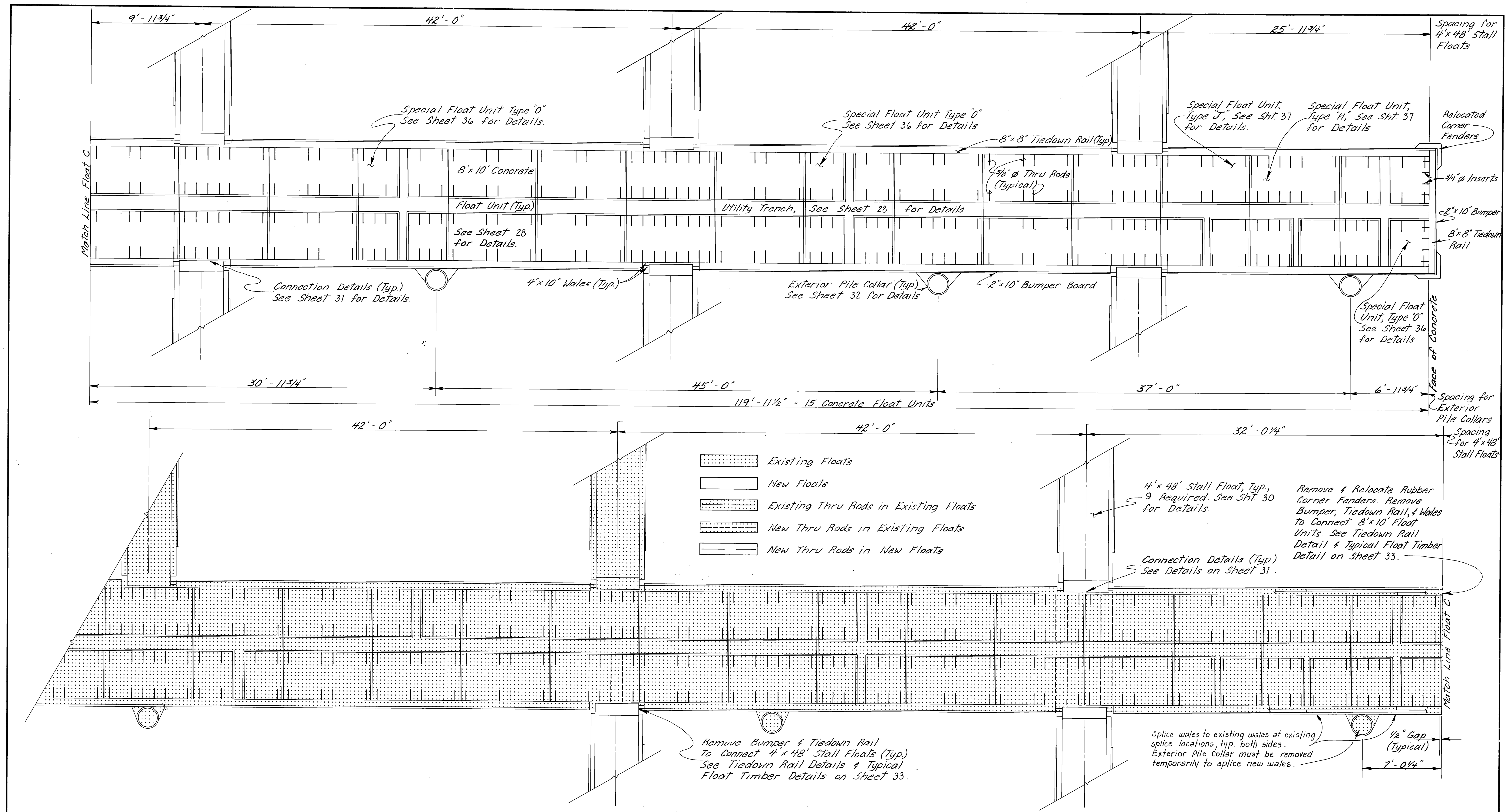
SECTION A - A
1-1/2" = 1'-0"



SECTION B - B
3" = 1'-0"

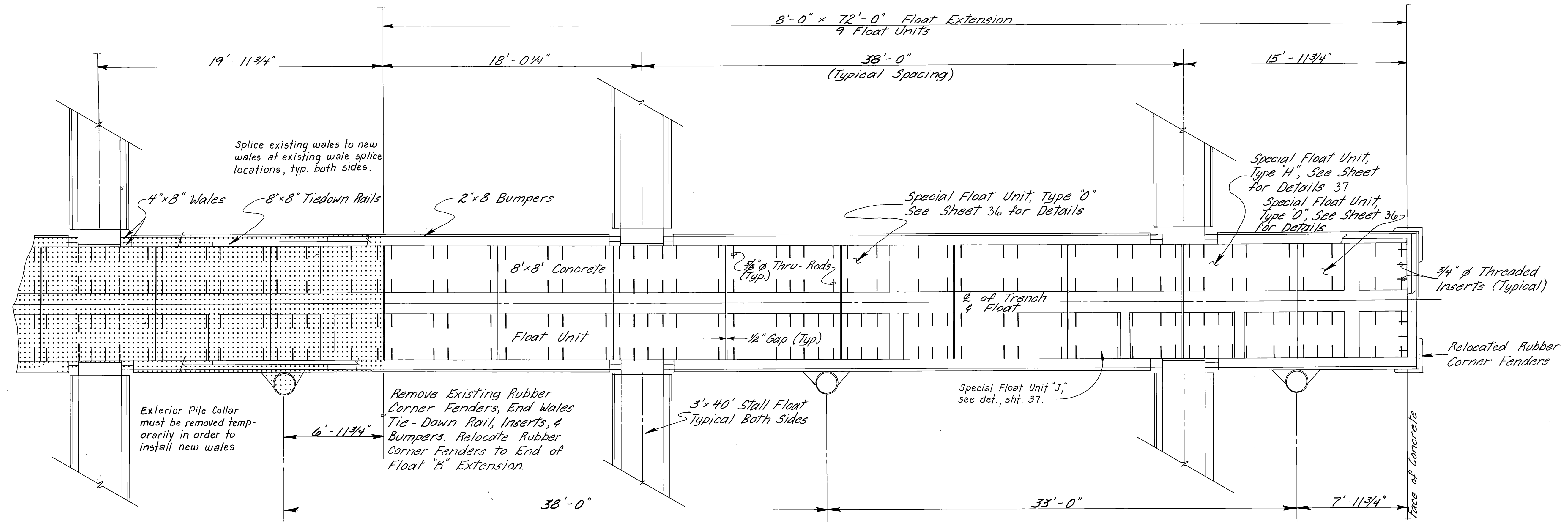
STAMP		DO NOT SCALE THIS DRAWING — USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
FLOAT "F" & STALL FLOAT LAYOUT & DETAILS			
DESIGNED <u>BAM</u>	CHECKED _____	DRAWN <u>MM/MEB</u>	DATE <u>1/84</u>
PROJECT NUMBER <u>K78190</u>	SHEET <u>24</u> OF <u>55</u>		

DCW 1-22-87

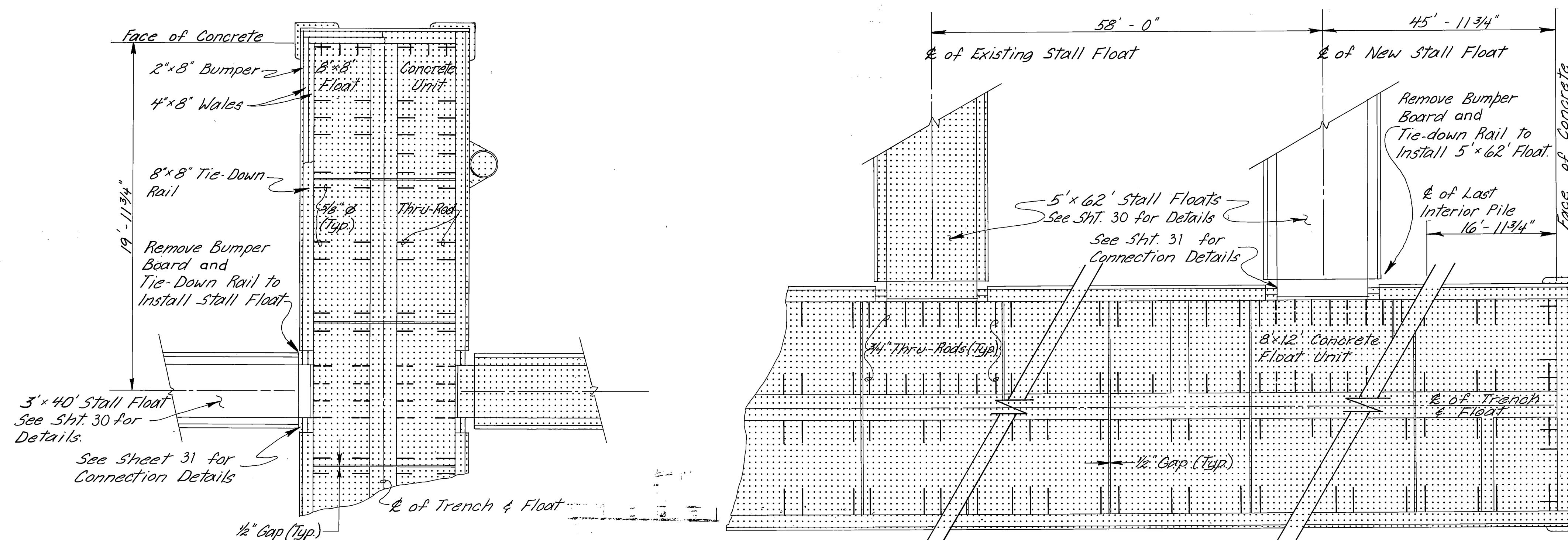


DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
FLOAT "C" LAYOUT			
WITH 4'x48' STALL FLOATS Scale: 1/4"=1'-0"			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>JM</u>	DATE <u>3/84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>25</u> OF <u>55</u>		



FLOAT B
1/4" = 1' - 0"



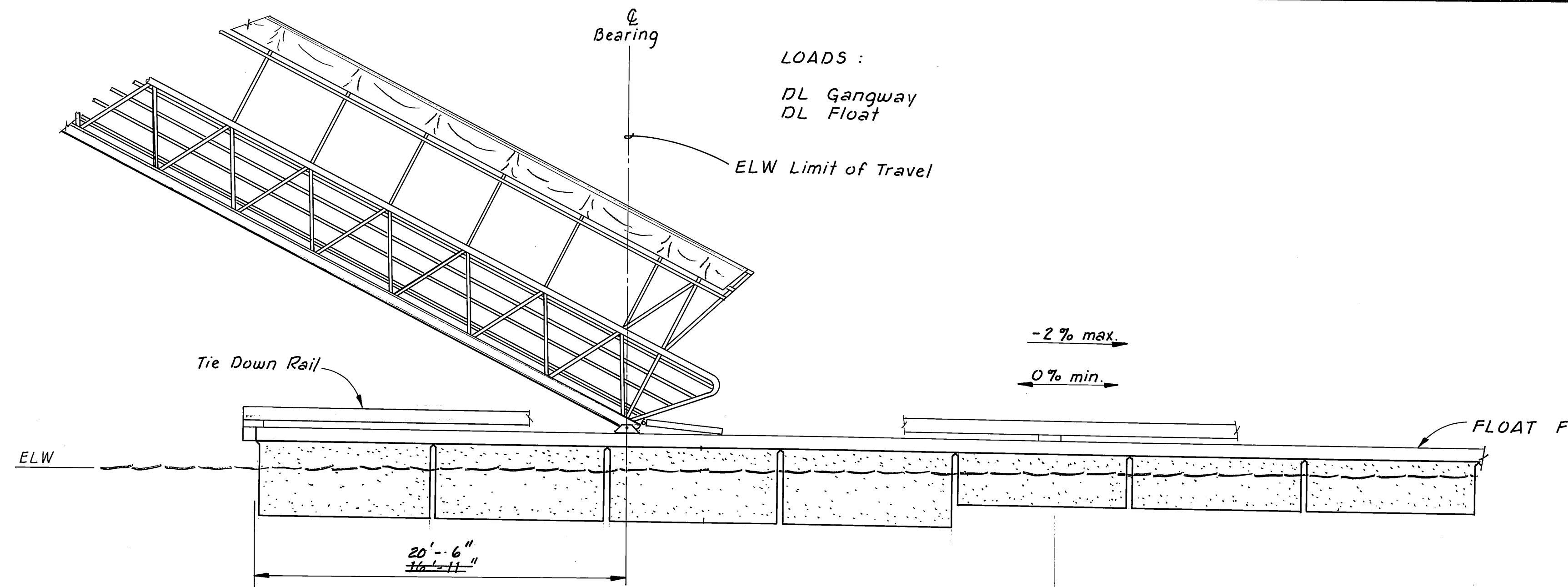
FLOAT A
1/4" = 1' - 0"

FLOAT D
1/4" = 1' - 0"

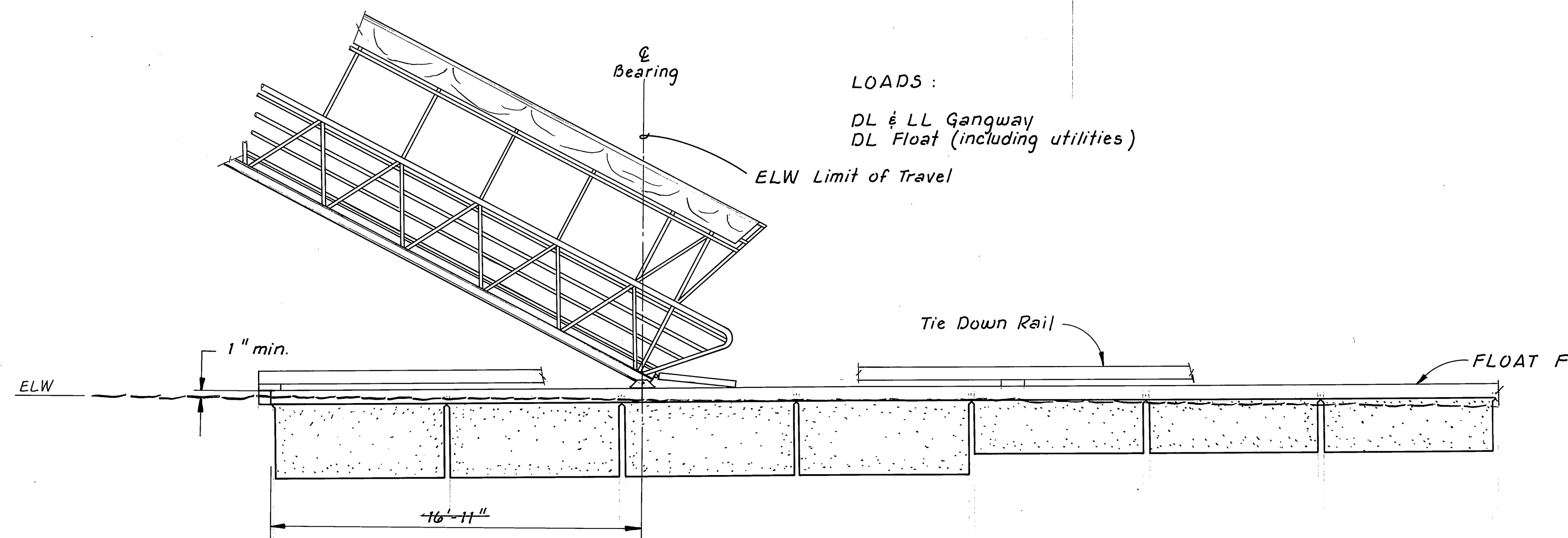
- Existing Floats
- New Floats
- Existing Thru-Rods
- New Thru Rods in Existing Floats

DCW 1-22-87

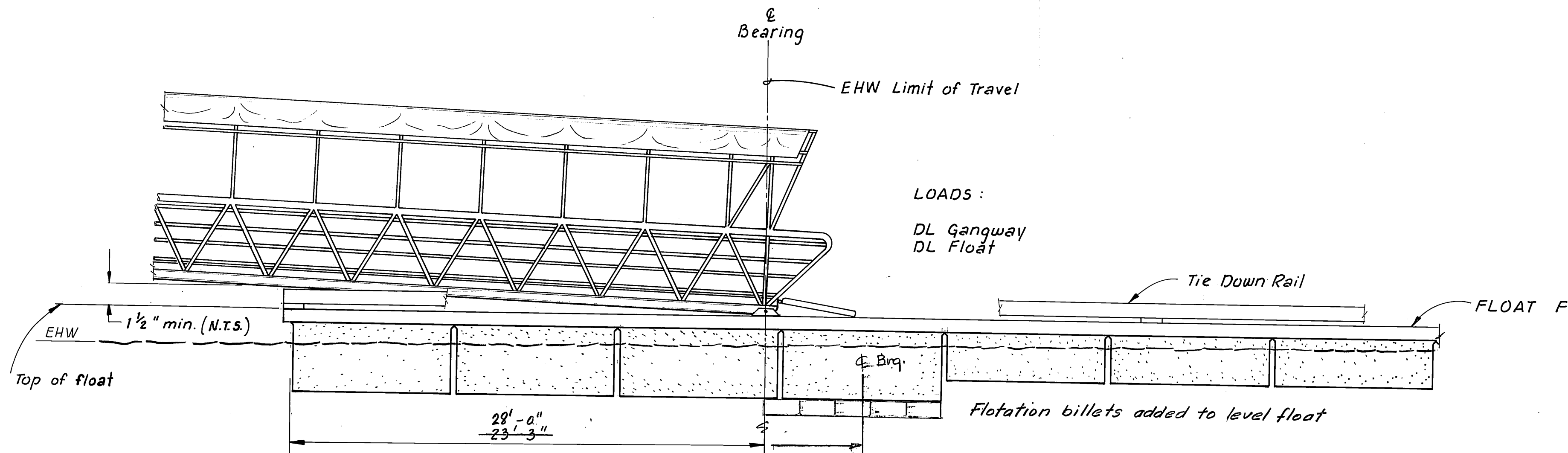
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG	ALASKA
		FLOATS "A", "B", & "D"	
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>JM</u>	DATE <u>3/84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>26</u>		OF <u>55</u>



CASE I
1/4" = 1'-0"



CASE II
1/4" = 1'-0"



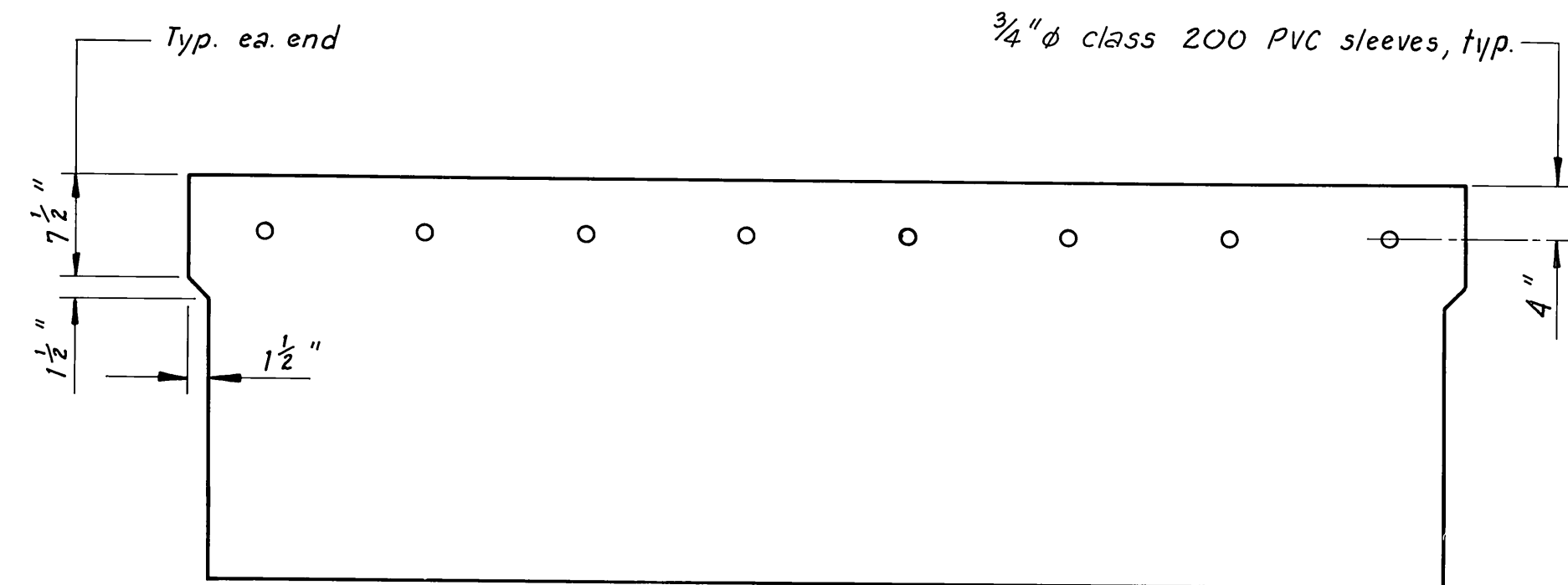
CASE III
1/4" = 1'-0"

DESIGN CRITERIA

Total Dead Load of Gangway = 14,000 lbs. +
Live Load = 60 PSF
Design Freeboard = 13"

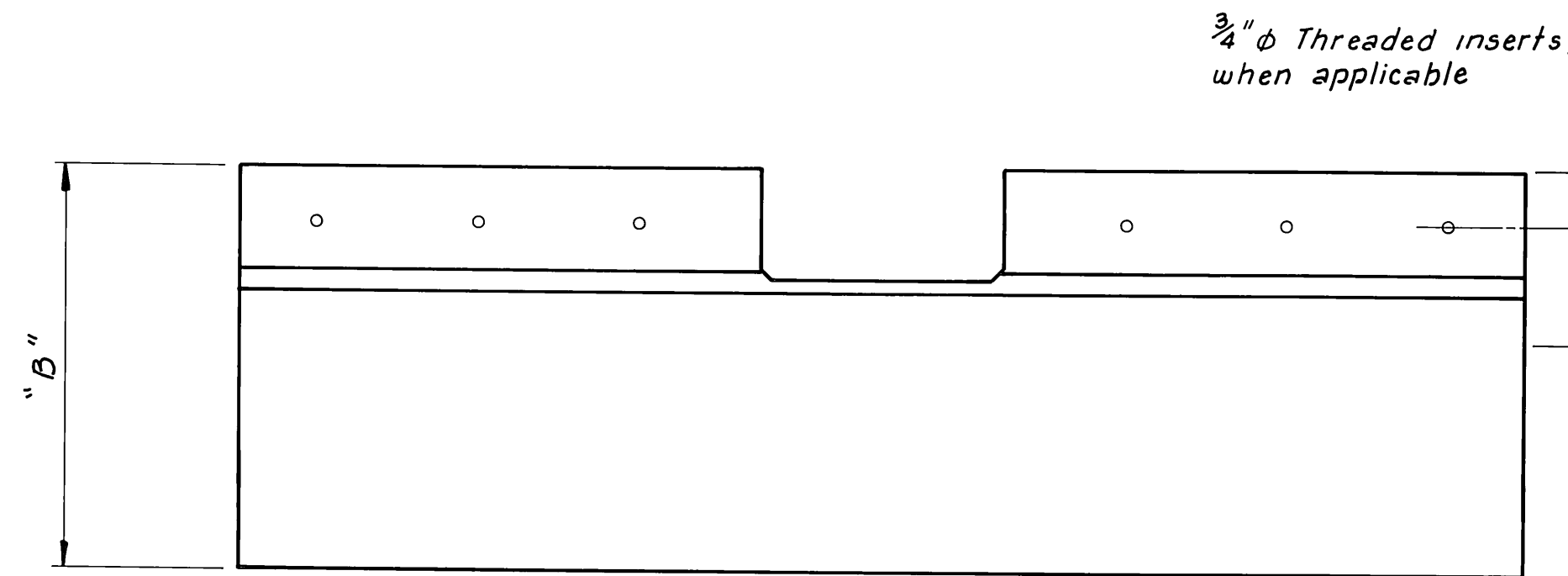
DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg	Alaska
		RIGIDLY FRAMED GANGWAY FLOAT DESIGN & GEOMETRIC CRITERIA	
DESIGNED	CHECKED	DRAWN T.S.	DATE 3-84
PROJECT NUMBER K-78190		SHEET 27	OF 55



OUTBOARD ELEVATION

1" = 1'-0"



END ELEVATION

1" = 1'-0"

W 3.0 or 6 ga. wire ea. side of trench, full length of float unit minus 3"

W 3.0 or 6 ga. wire

3 rebar, width of float unit minus 3"

$\frac{3}{4}$ " ϕ PVC sleeve, typ.

18"

$\frac{1}{4}$ "

1 $\frac{1}{2}$ " chamfer, typ.

$\frac{3}{4}$ " chamfer, typ.

1

Bottom of deck beam and trench deck ②

W 6.0 or 1ga. wire ea. side, full length of float unit minus 3"

$\frac{5}{8}$ " ϕ Thru rod, typ.

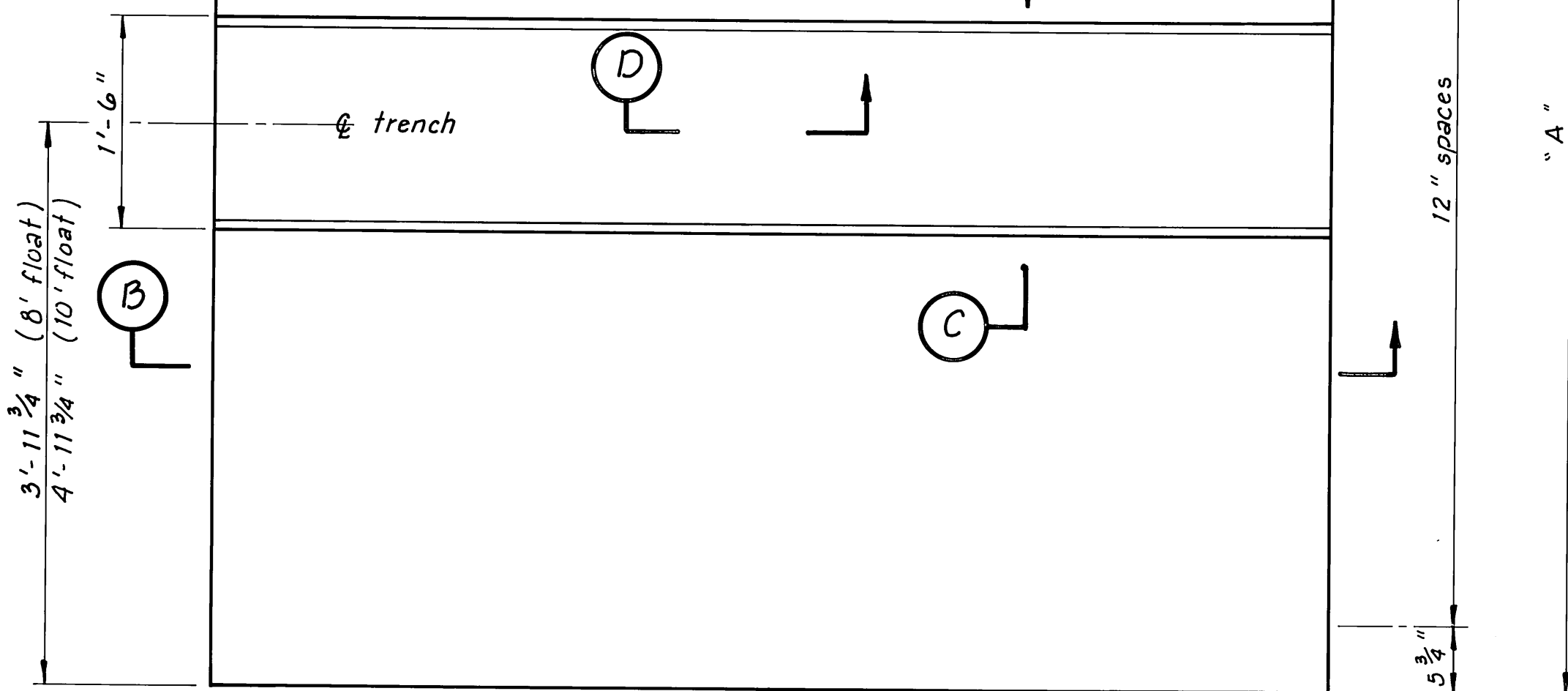
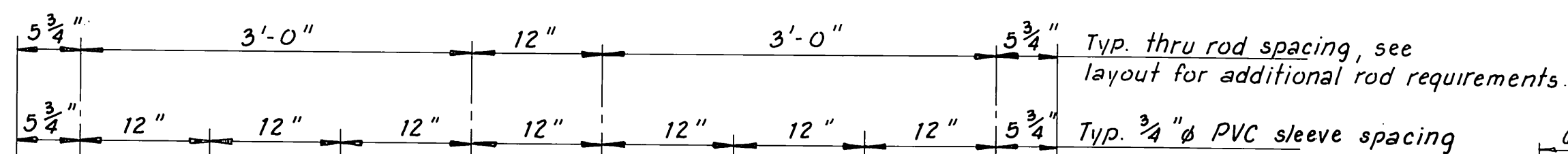
2x8 Ledger

2x2 $\frac{1}{4}$ " mesh all around

2

SECTION C

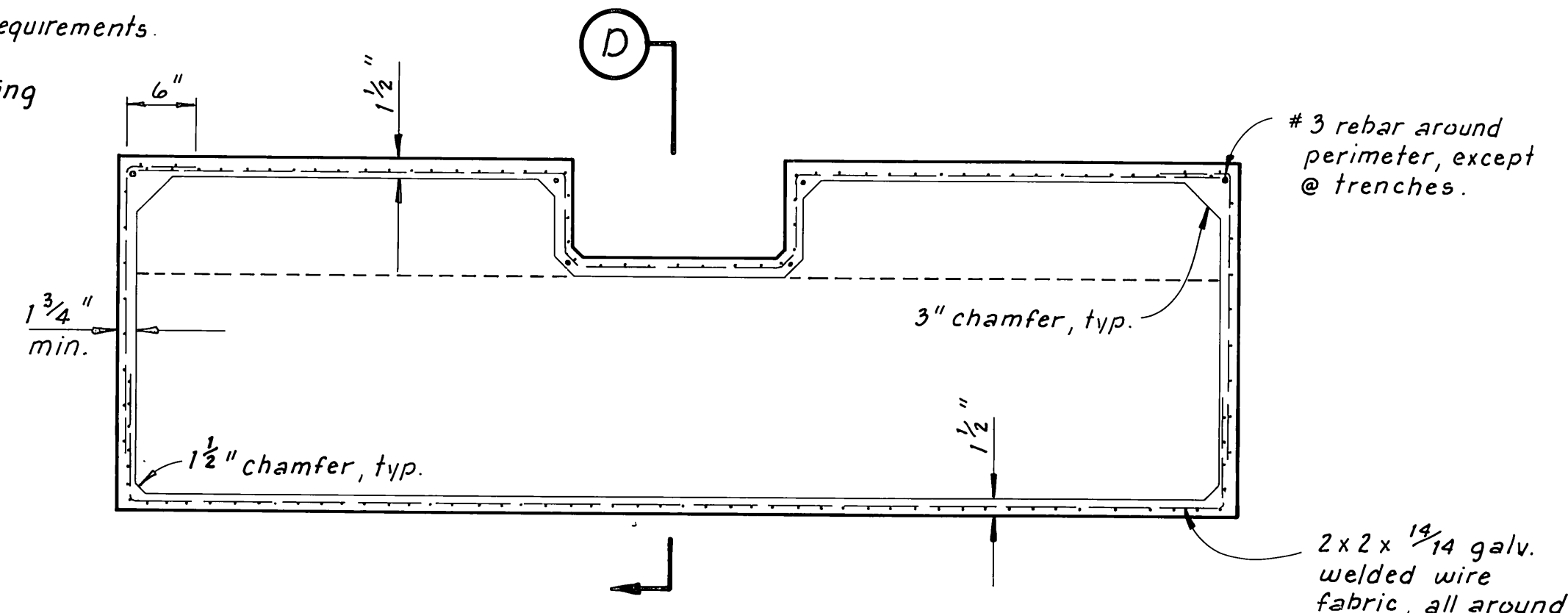
1" = 1'-0"



PLAN

1" = 1'-0"

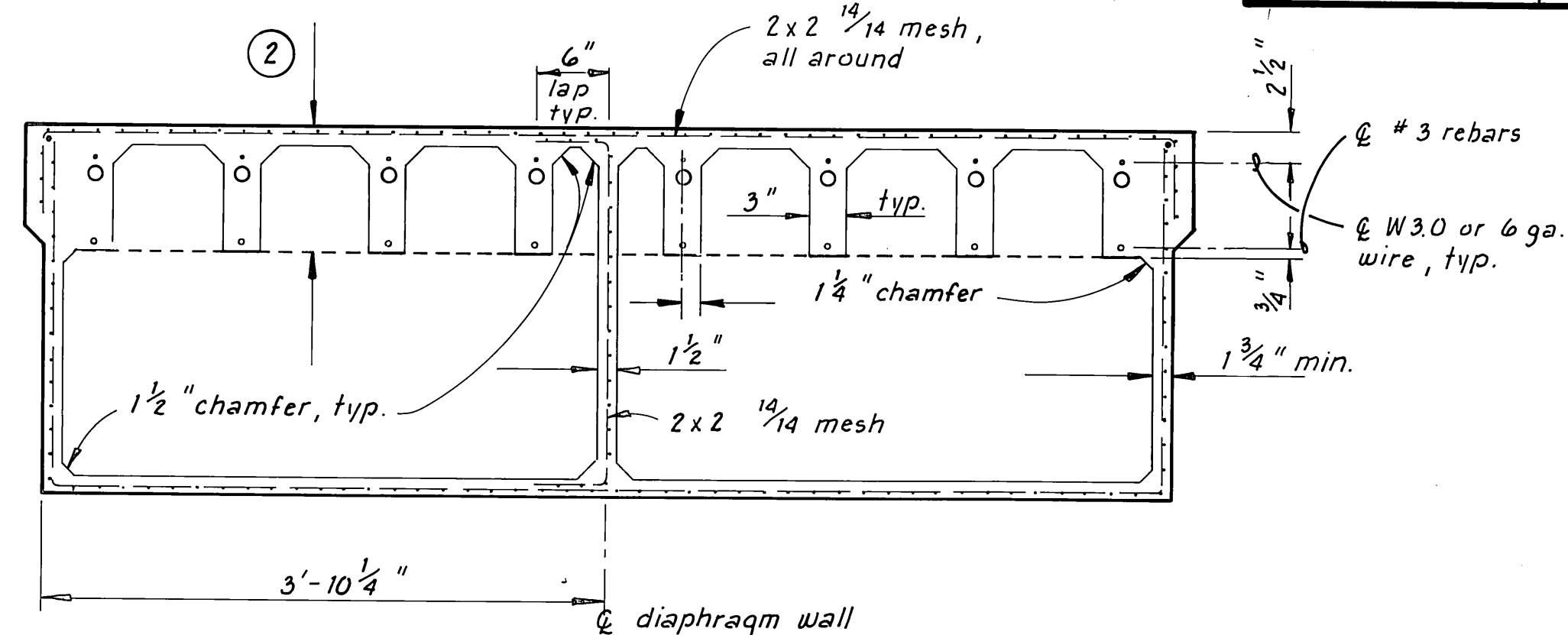
$\frac{3}{4}$ " ϕ Threaded insert spacing, @ end Float "F" and Interior Pile Collars for 8x10 Units.



SECTION A

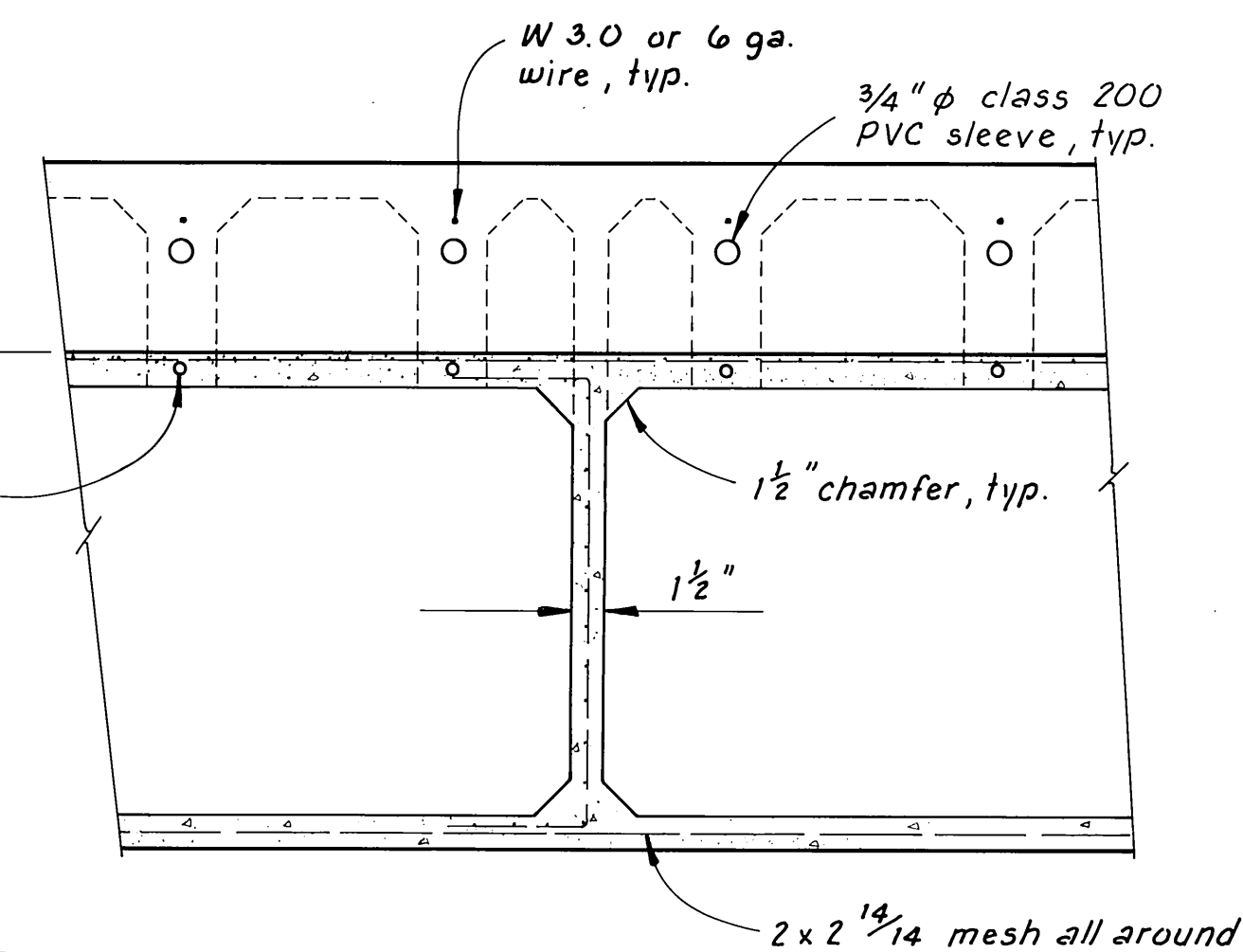
1" = 1'-0"

DIMENSIONS		
NOMINAL FLOAT	"A"	"B"
8 x 8	7'-11 $\frac{1}{2}$ "	⑤
8 x 10	9'-11 $\frac{1}{2}$ "	⑤
8 x 10 w/o trench	9'-11 $\frac{1}{2}$ "	⑤



SECTION B

1" = 1'-0"



SECTION D

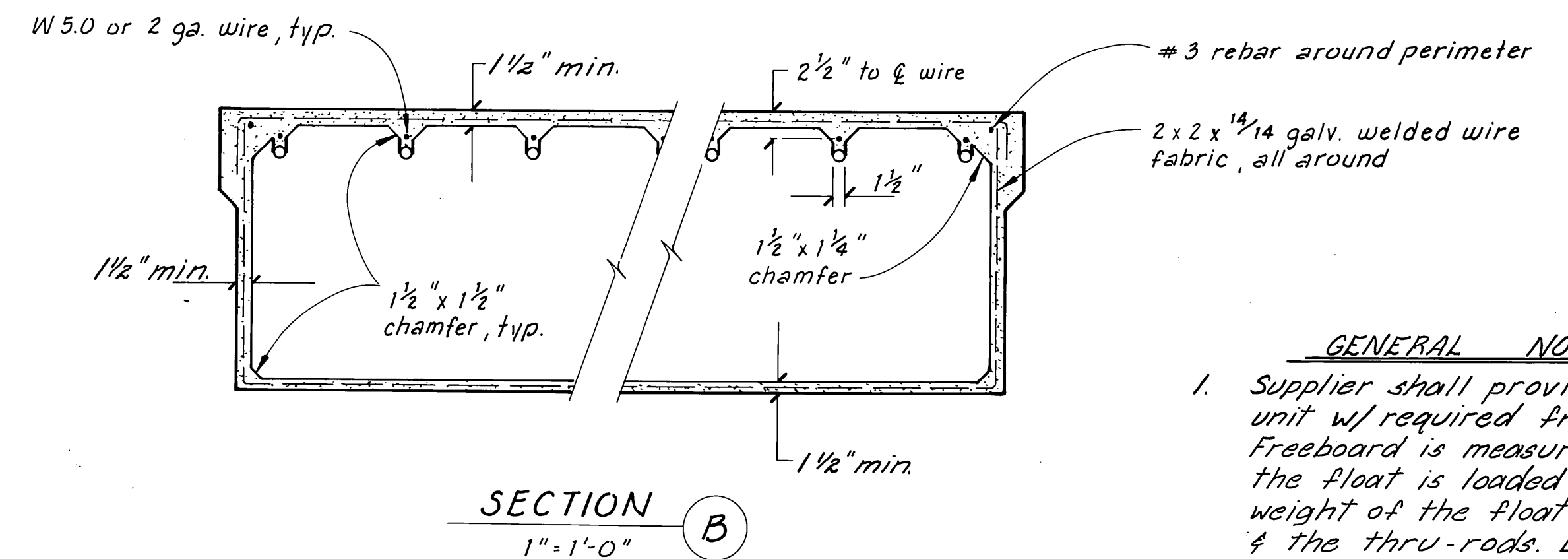
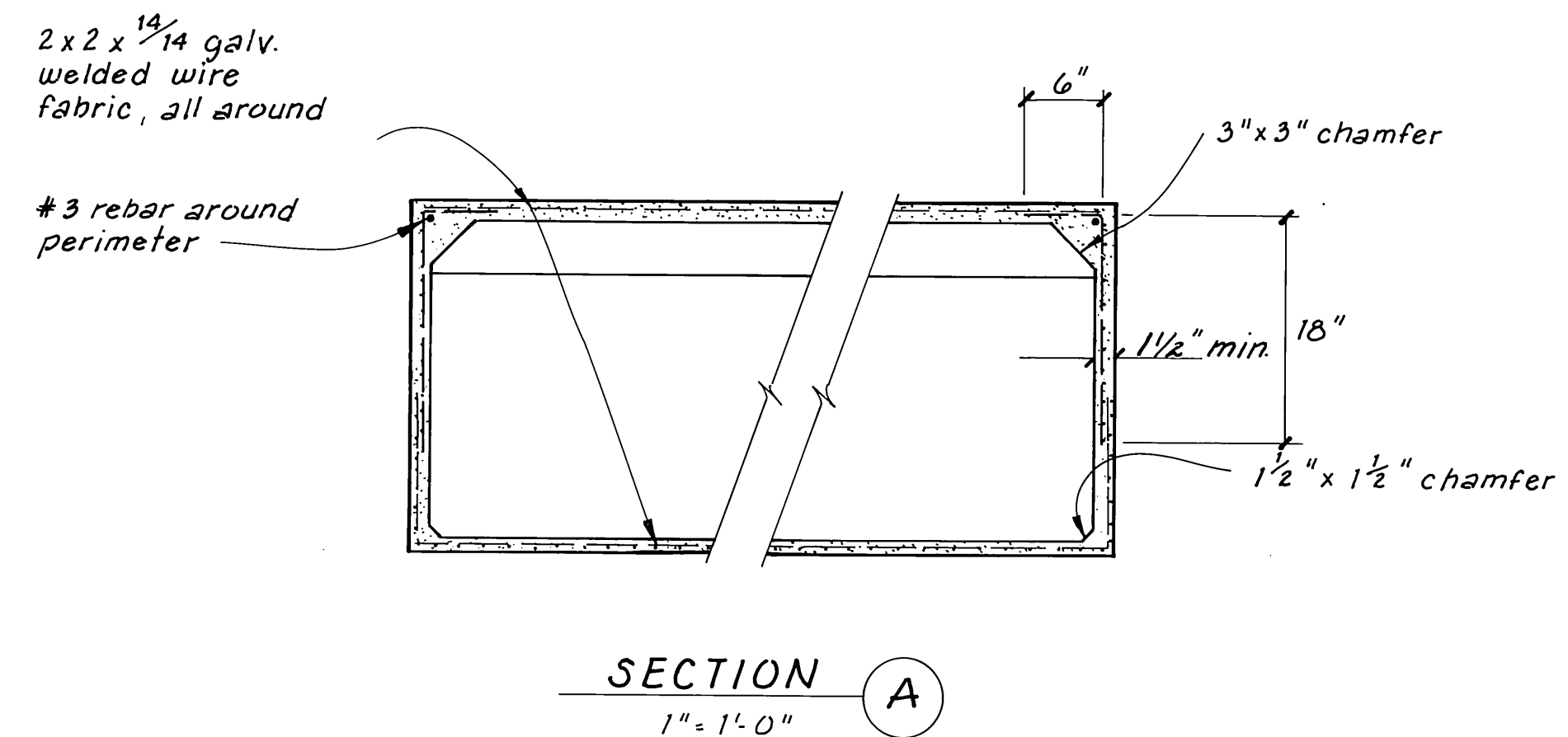
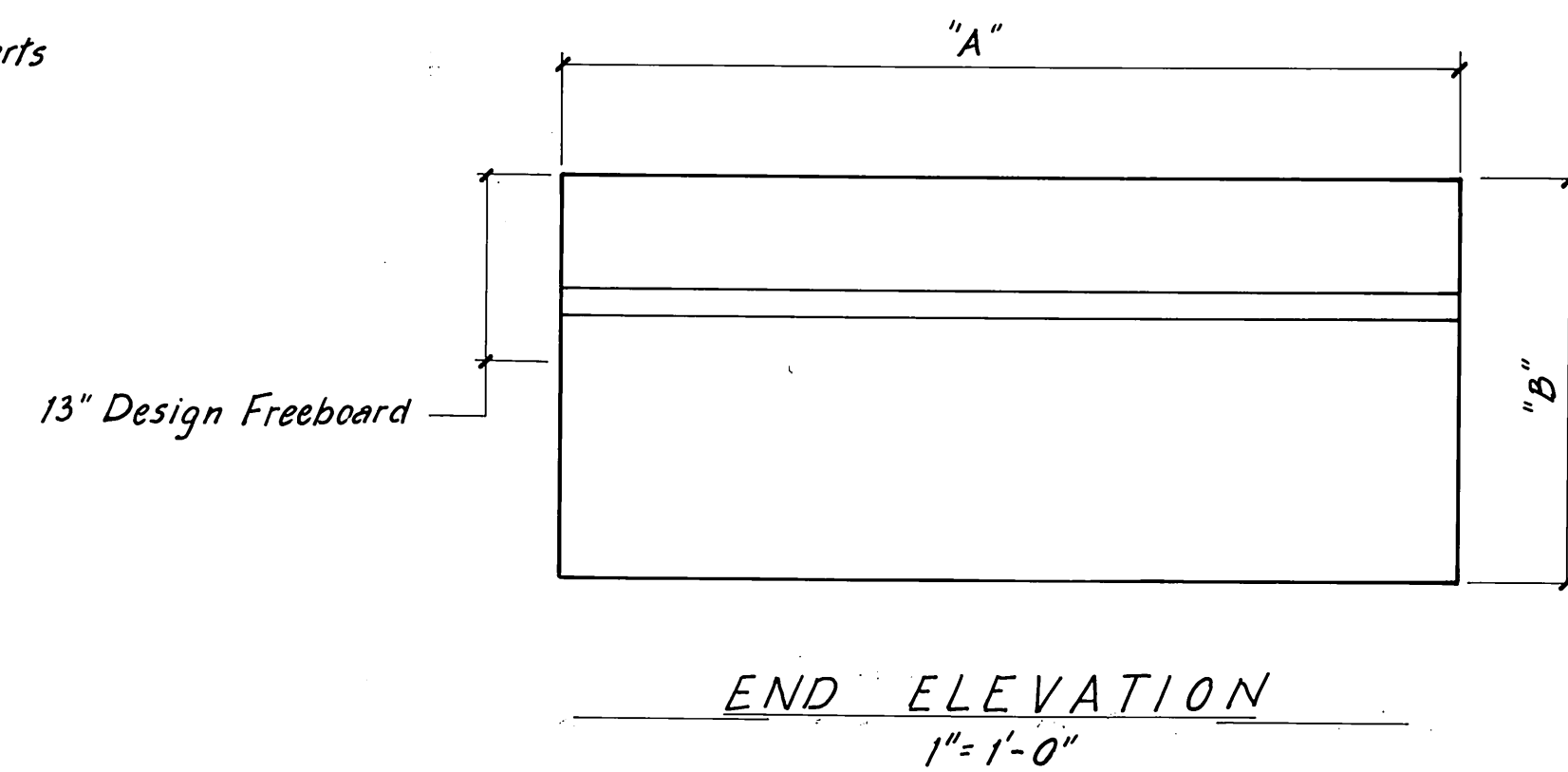
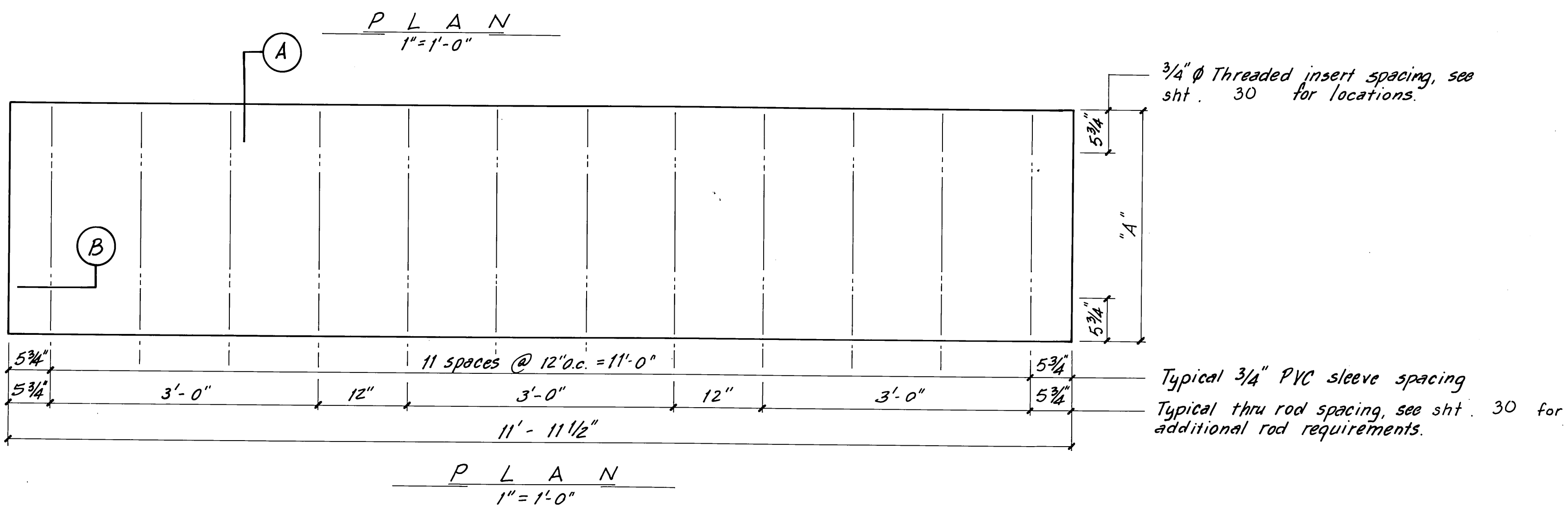
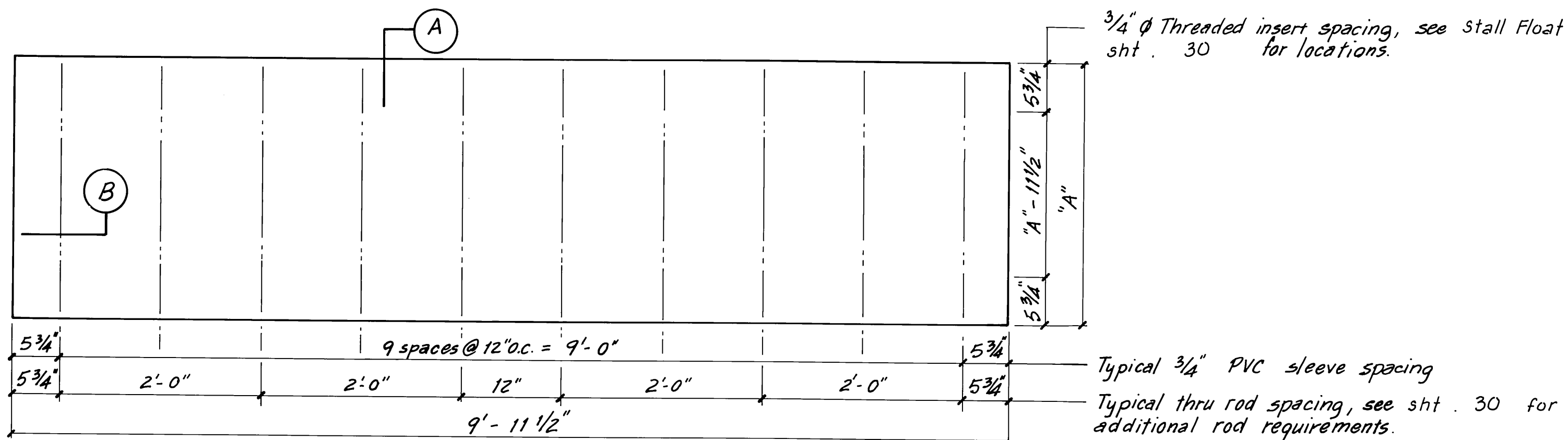
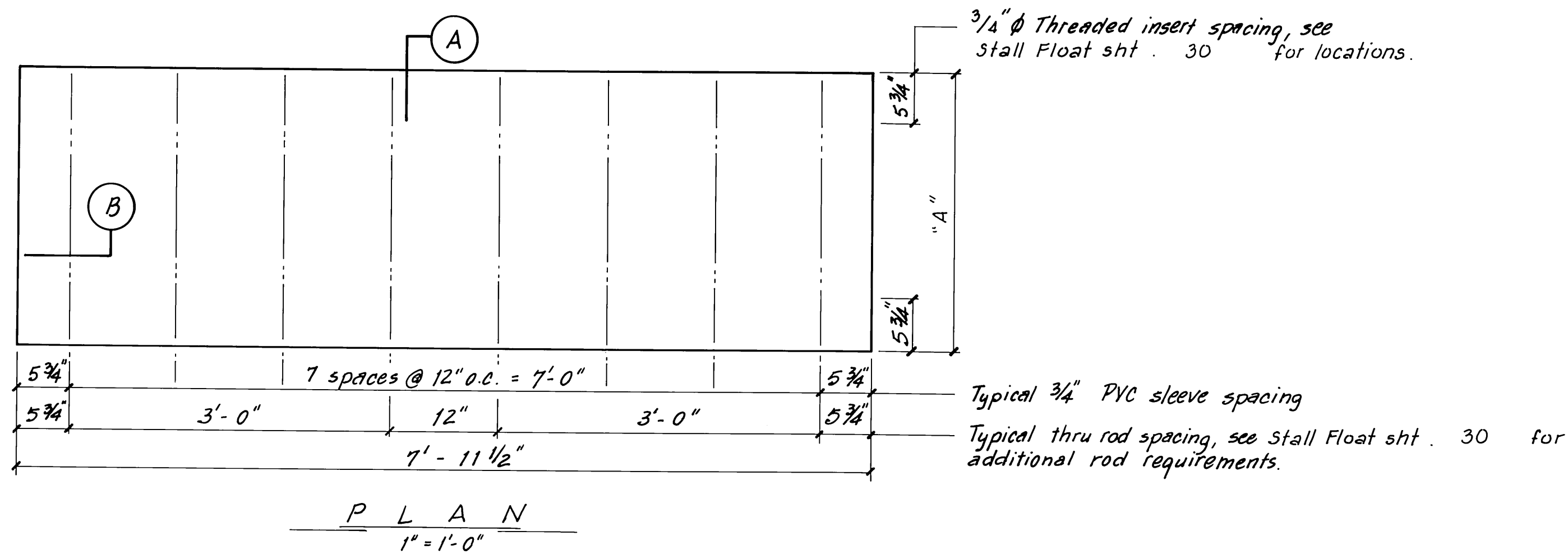
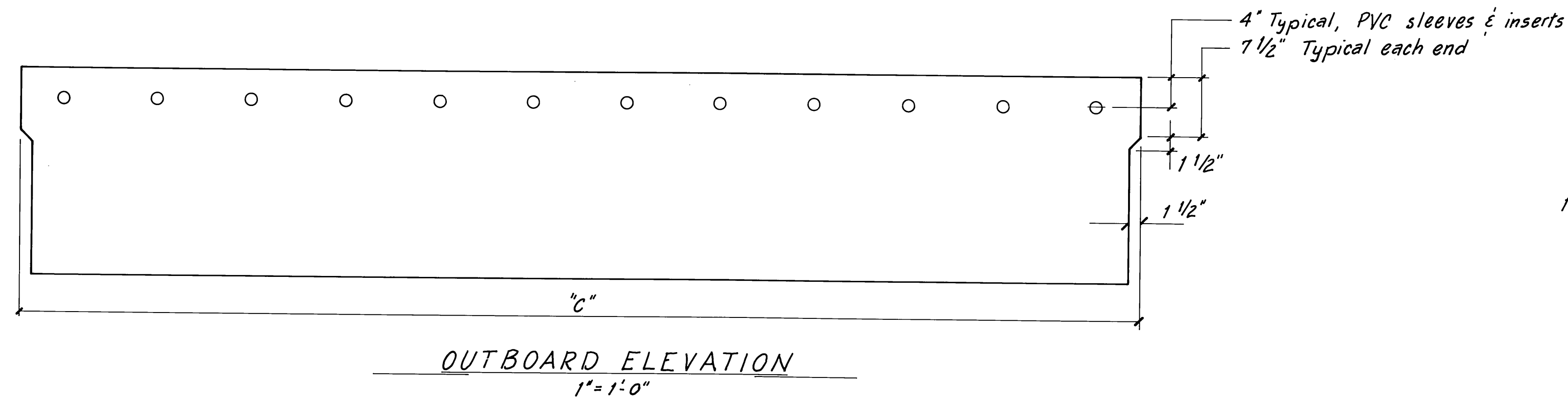
1 $\frac{1}{2}$ " = 1'-0"

General Notes :

- ① Trench depth varies, see utility trench intersection, sheets 36 & 37.
- ② Depth of deck beam varies with depth of trench. 9 $\frac{3}{4}$ " typ. on float shown.
- ③ All floats solidly filled w/ polystyrene as per specs.
- ④ Four 8x10 Float Units w/o trenches req'd. for Gangway Float. Use same reinforcing and deck beams as shown. Required freeboard with gangway Dead Load loading is 13". See Specifications for freeboard tolerances.
- ⑤ To be determined by supplier based on wall thickness and float weight to achieve design freeboard.

DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg Alaska	
TYPICAL 8' & 10' FLOAT UNITS			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED JS	DRAWN TS		
CHECKED	DATE 4-83		
PROJECT NUMBER K-18190	SHEET 28 OF 55		



GENERAL NOTES

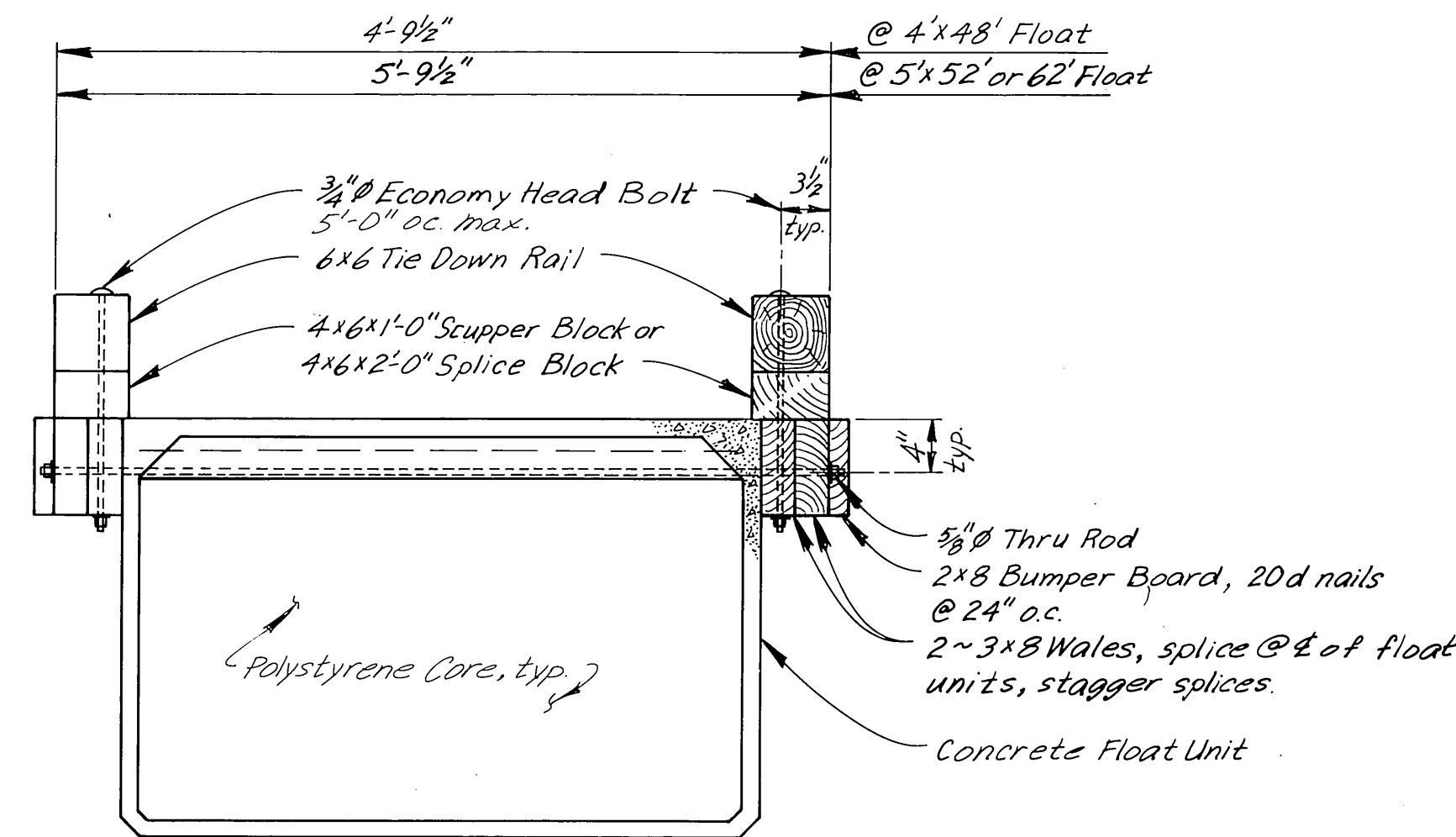
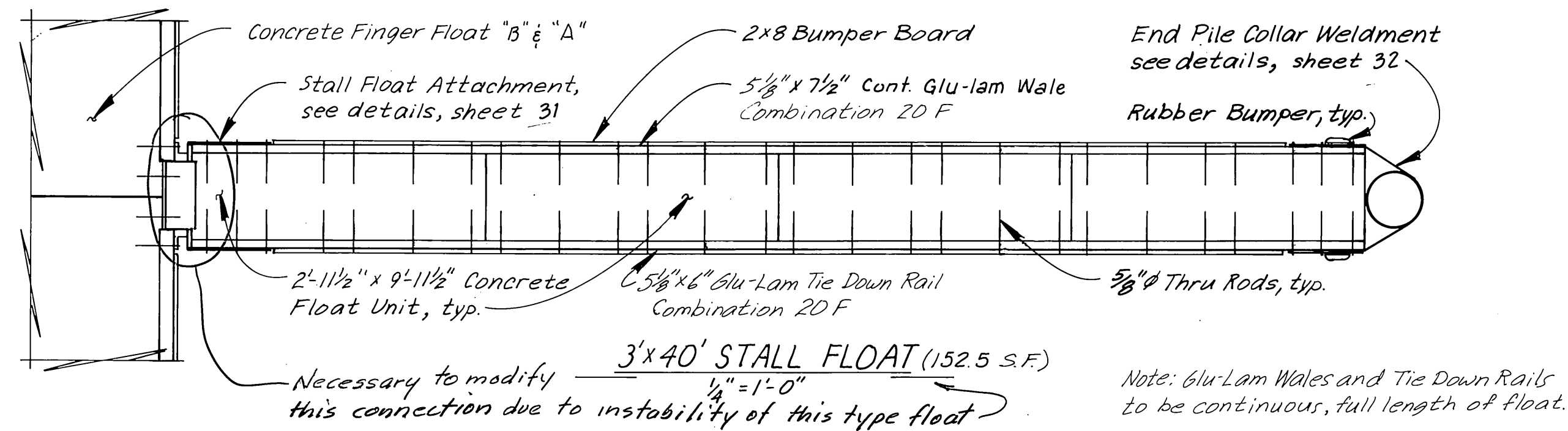
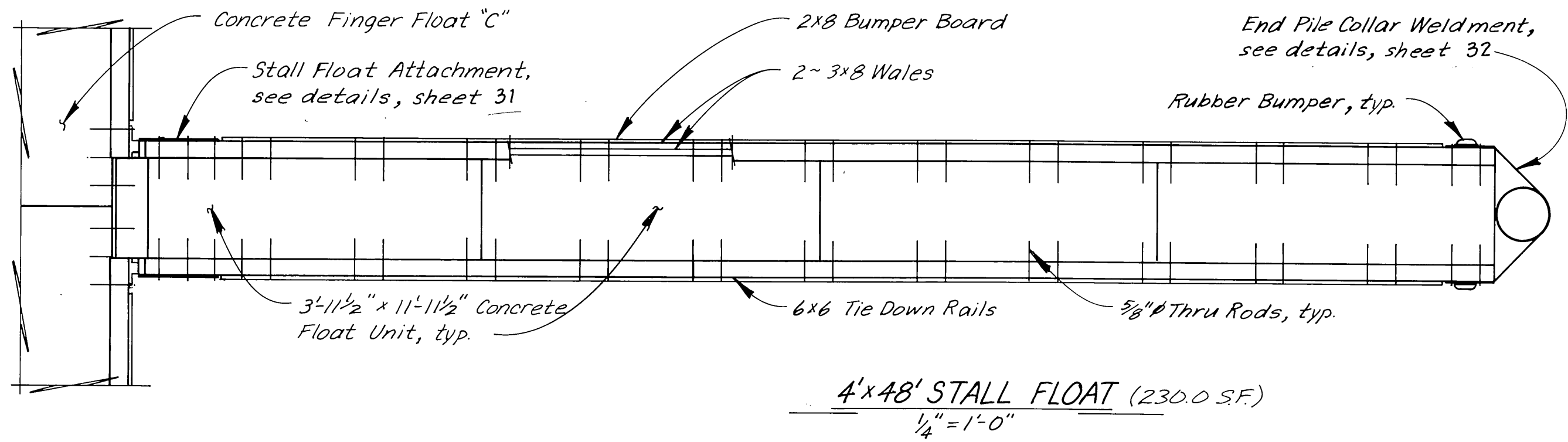
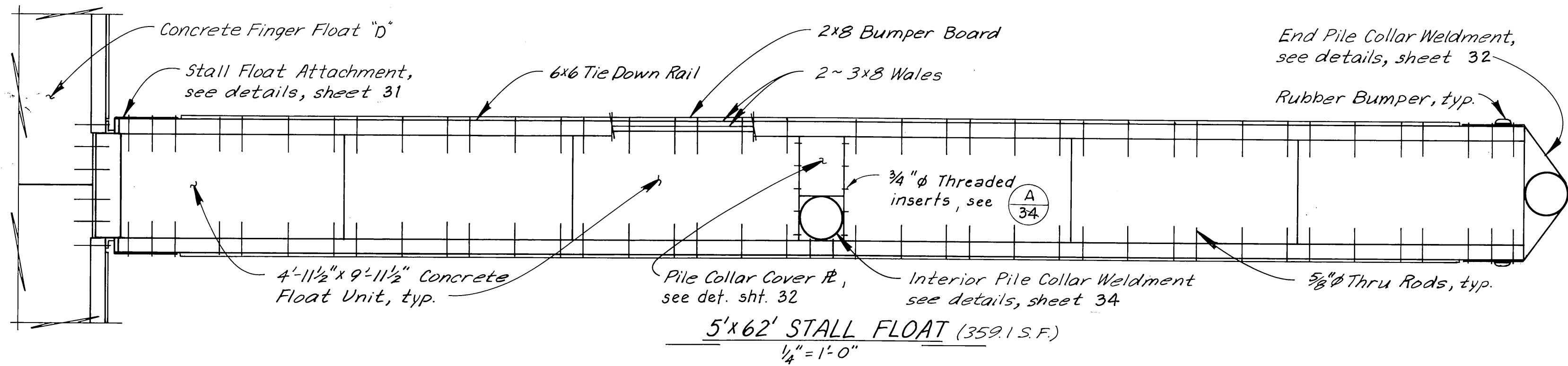
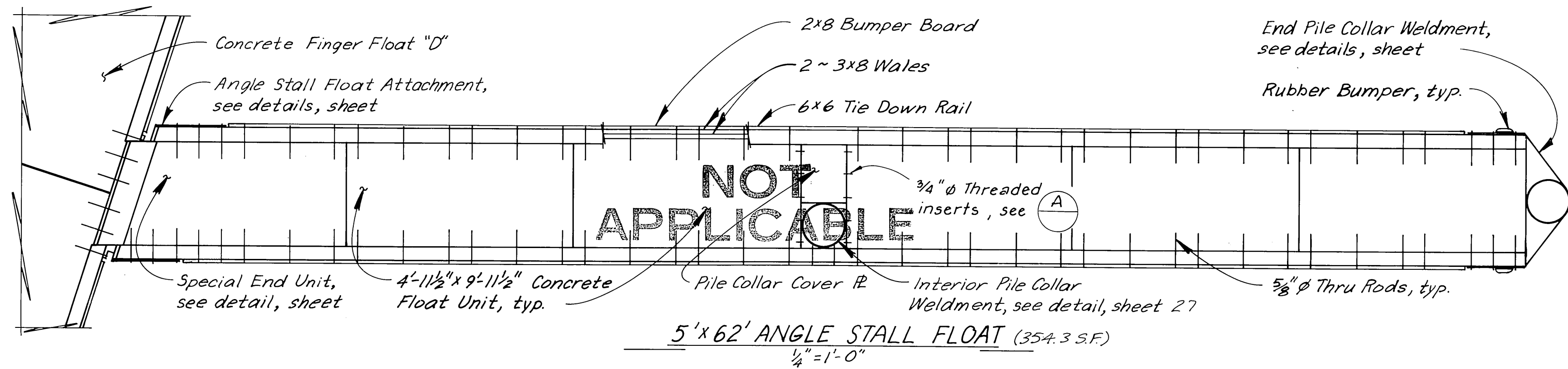
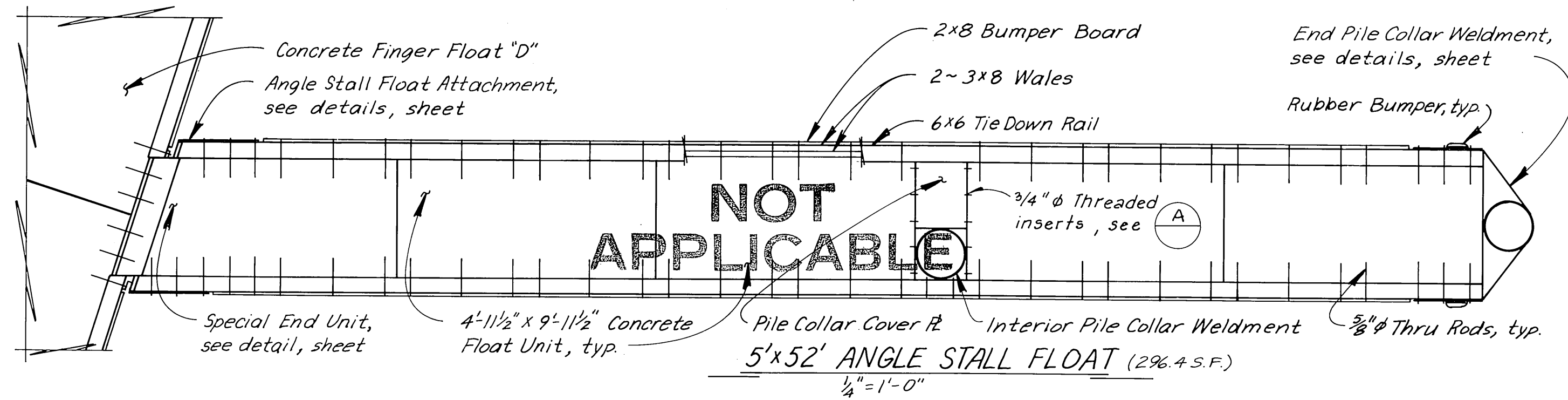
- Supplier shall provide float unit w/ required freeboard. Freeboard is measured when the float is loaded with the weight of the float timbers & the thru-rods. Depth of float depends upon freeboard. Minimum Freeboard = 12.5" Maximum Freeboard = 14.0"
- It was noted that all units are tending toward being heavier, rather than lighter, which with added utilities is resulting in free boards of 12". Free board design should be increased.

DIMENSIONS			
Nominal Float	A	B	C
3 x 10	2'-7"	Note 1	9'-11 1/2"
3 x 10	2'-11 1/2"	Note 1	9'-11 1/2"
4 x 12	3'-11 1/2"	Note 1	11'-11 1/2"
5 x 10	4'-11 1/2"	Note 1	9'-11 1/2"

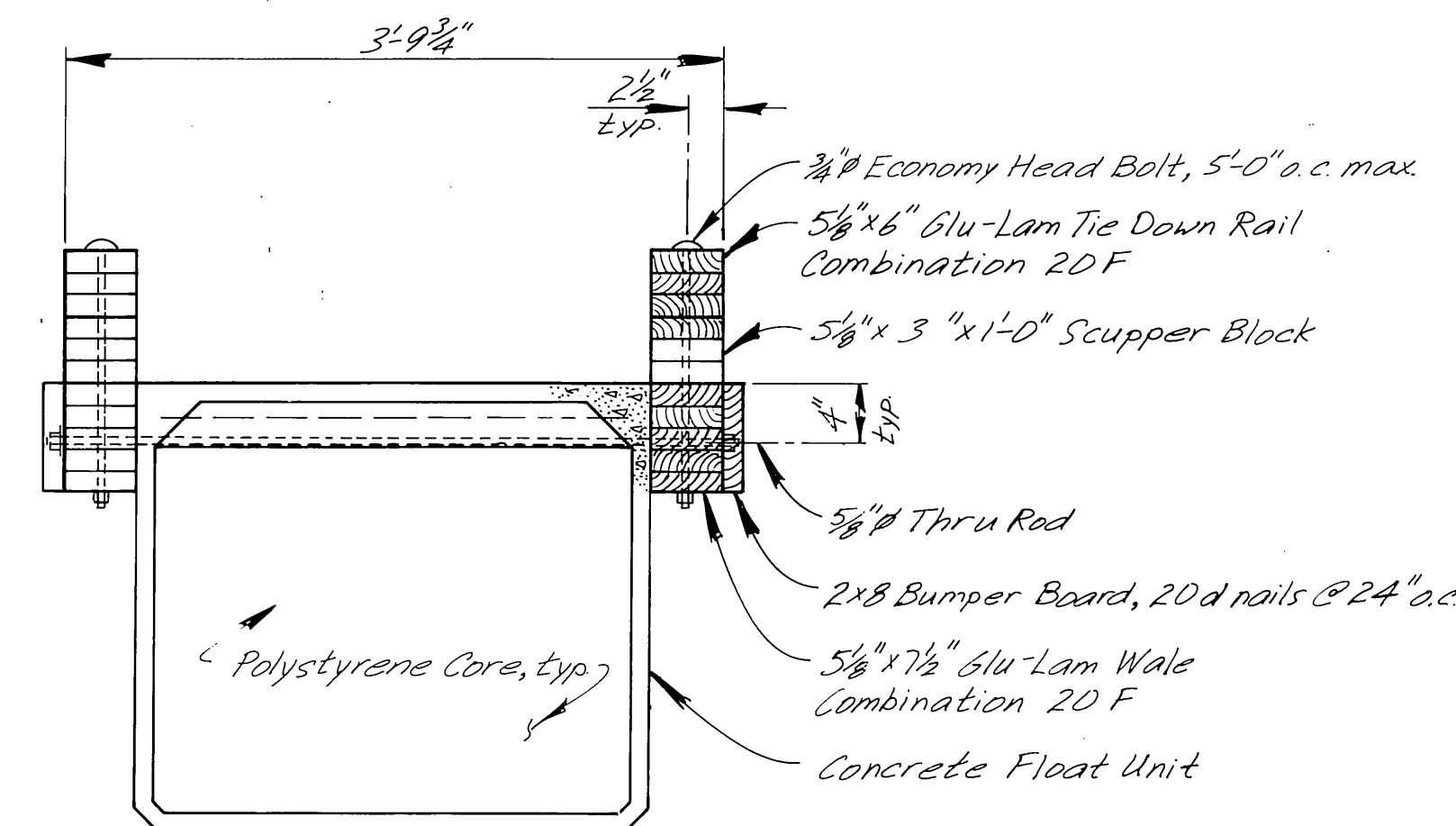
Note: All floats solidly filled w/ polystyrene as per specs.

DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Petersburg, Alaska	
		TYPICAL STALL FLOAT UNITS	
SCALE: <i>As Noted</i>	SURVEYED: _____	APPROVED: _____	
DESIGNED: <i>RAM</i>	DRAWN: <i>Skapp</i>	_____	
CHECKED: _____	DATE: _____	_____	
PROJECT NUMBER: <i>K-78190</i>	SHEET 29 OF 55		

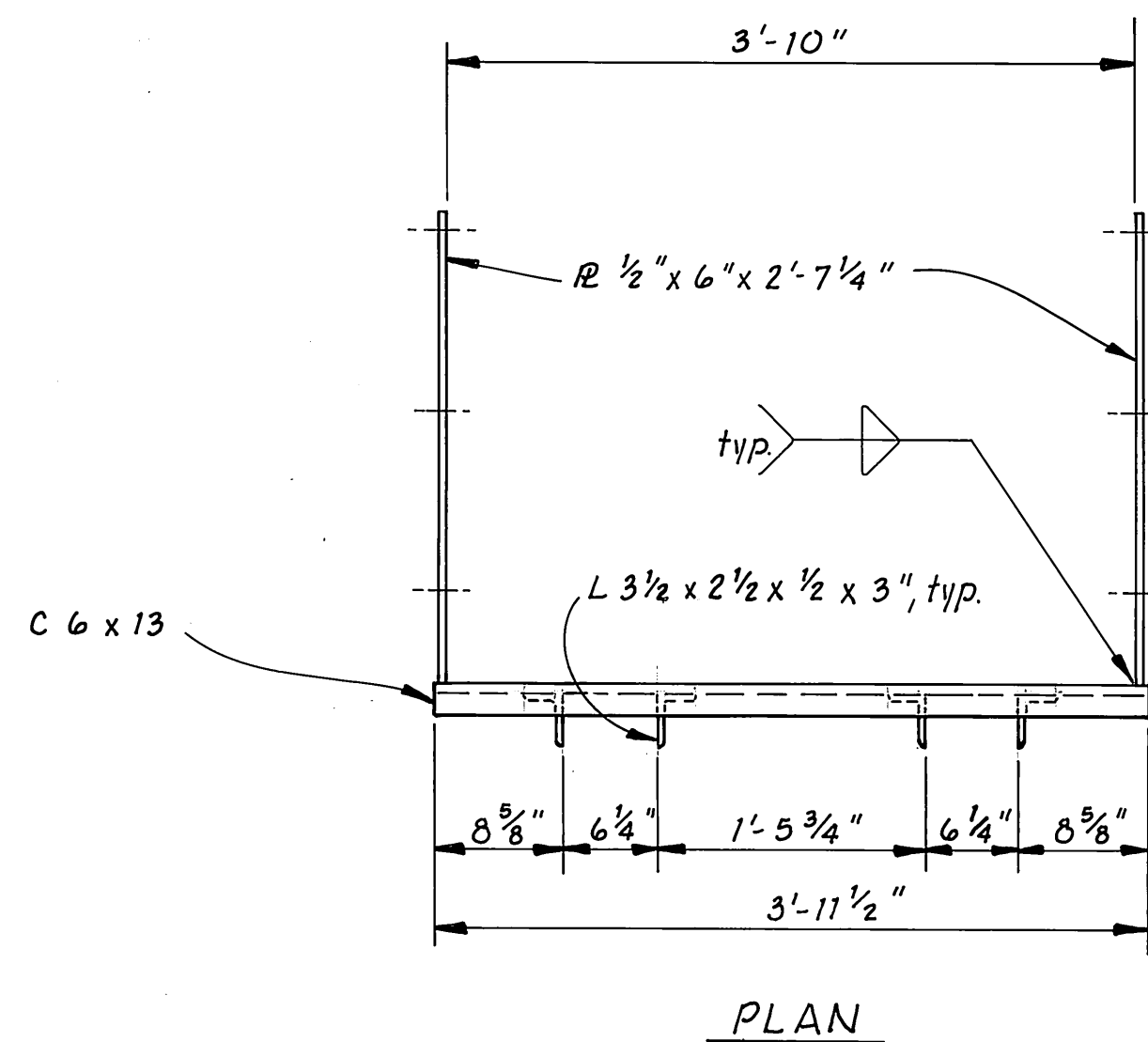


4' & 5' STALL FLOATS
1" = 1'-0"



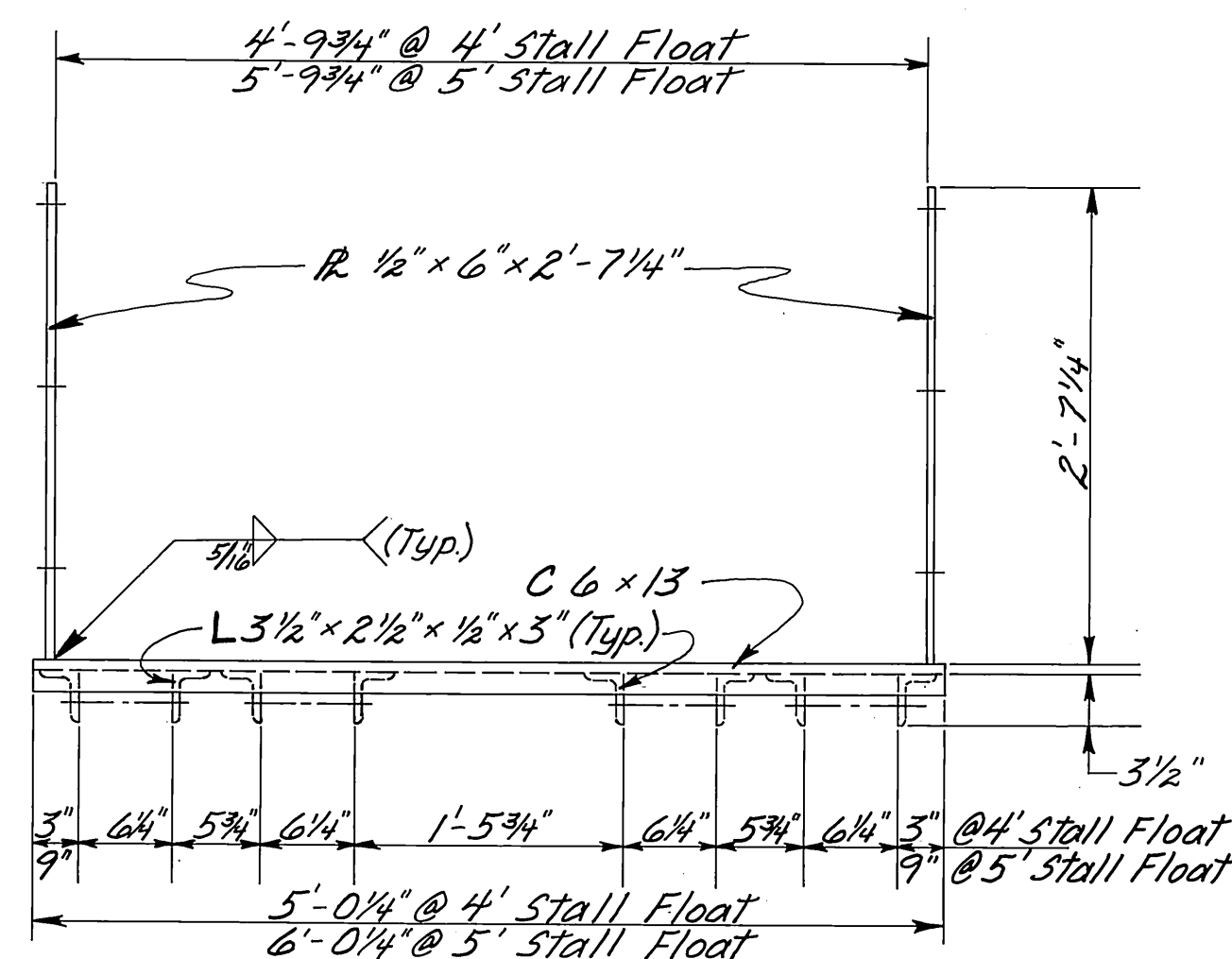
3' STALL FLOAT
1" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg Alaska	
		TYPICAL STALL FLOATS	
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED Staff P	DRAWN LVB		
CHECKED JS	DATE 3/10/84		
PROJECT NUMBER K78190		SHEET 30 OF 55	



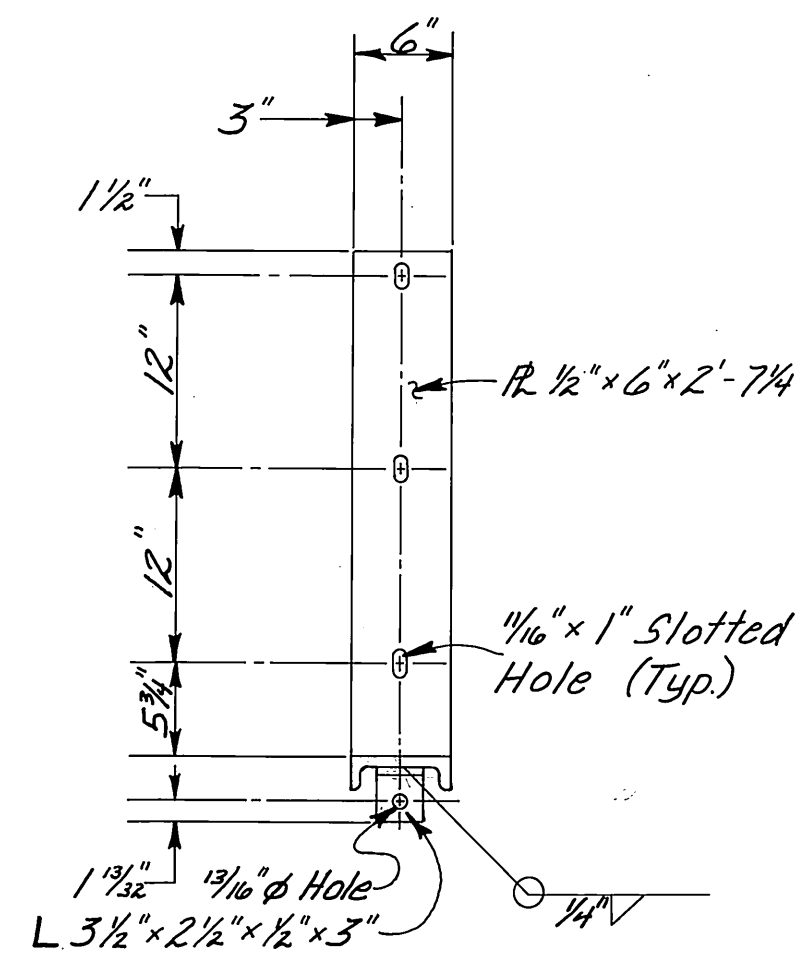
3' STALL FLOAT ATTACHMENT
1" = 1'-0"

NOTE: End view of 4' & 5' stall float attachment typical of 3' stall float attachment.

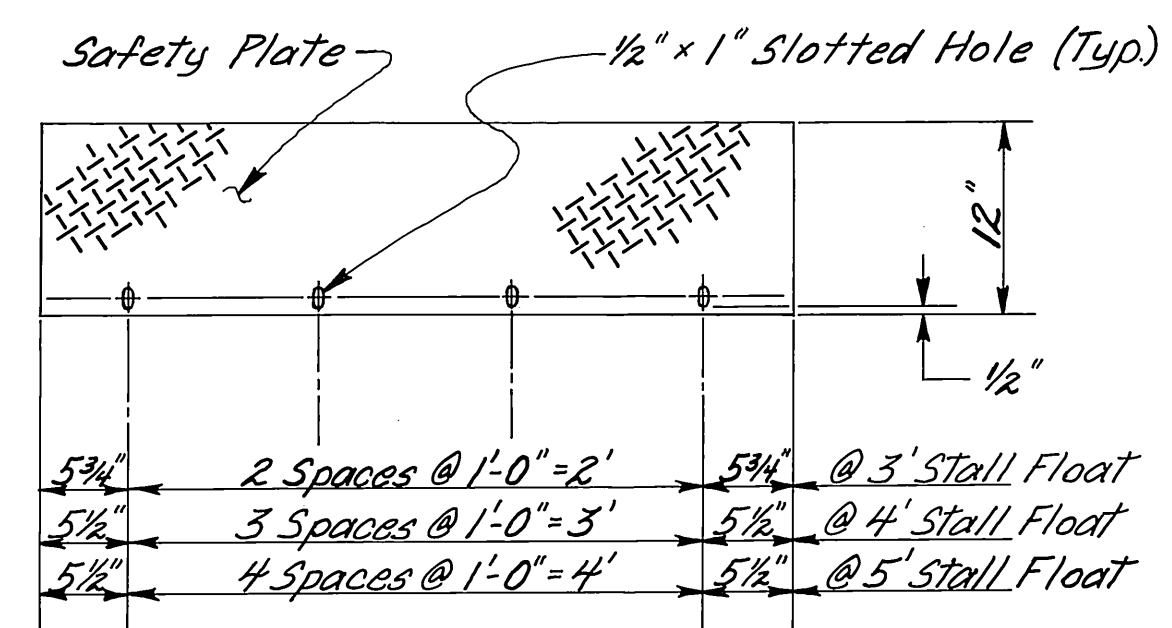


PLAN

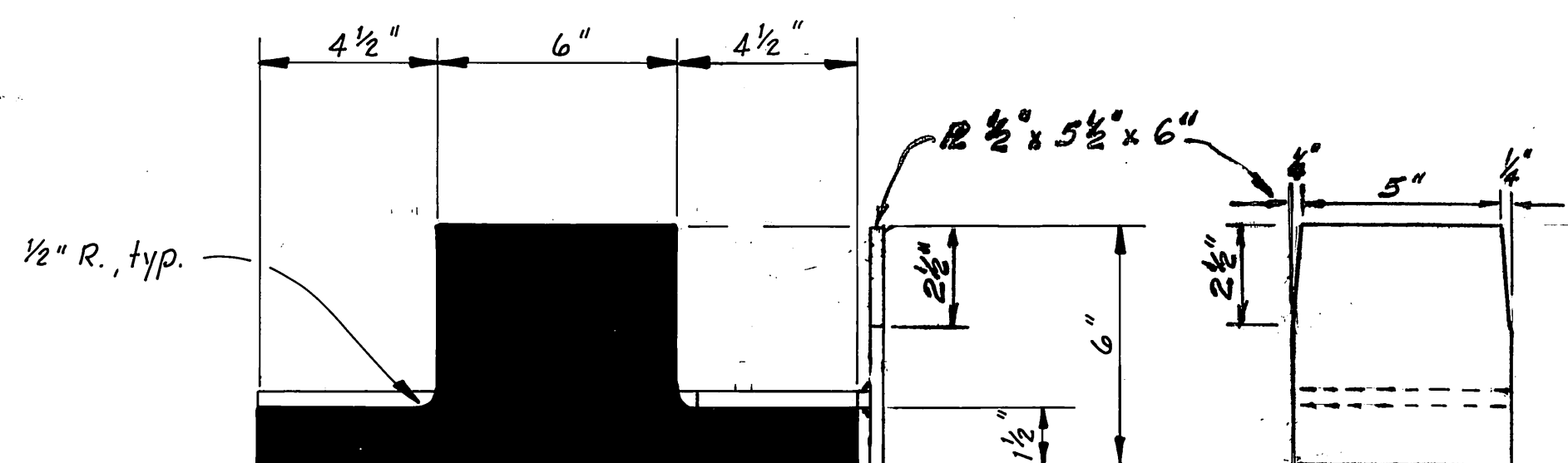
4' & 5' STALL FLOAT ATTACHMENTS
1" = 1'-0"



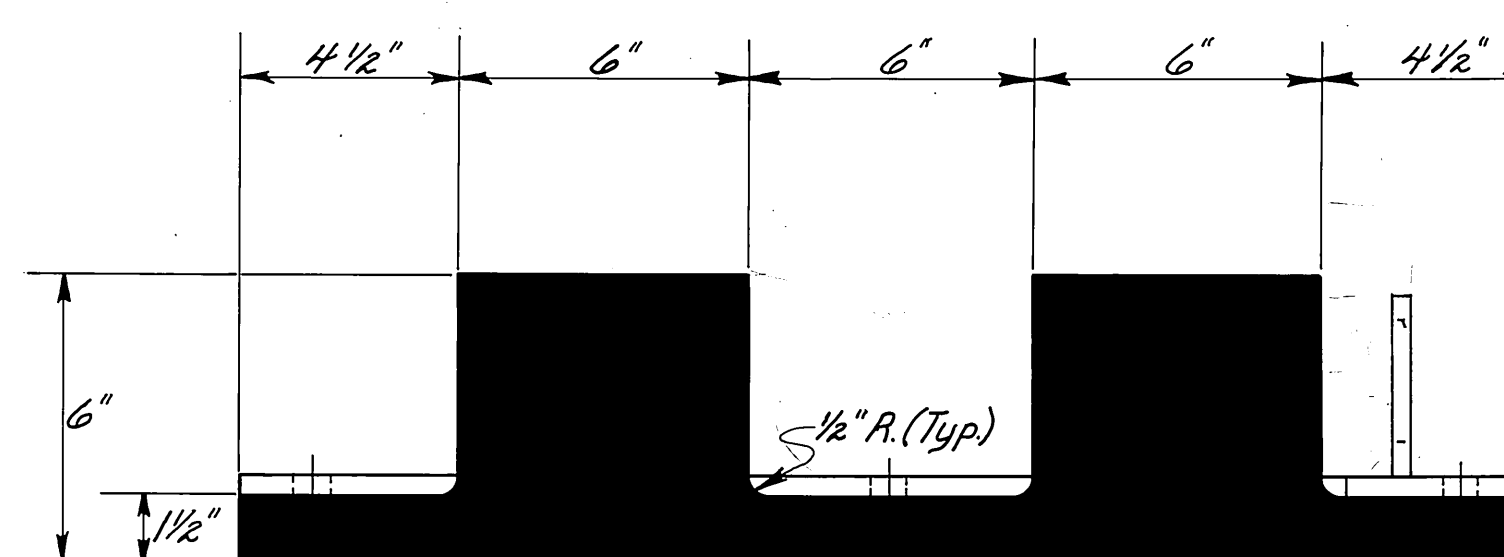
END VIEW



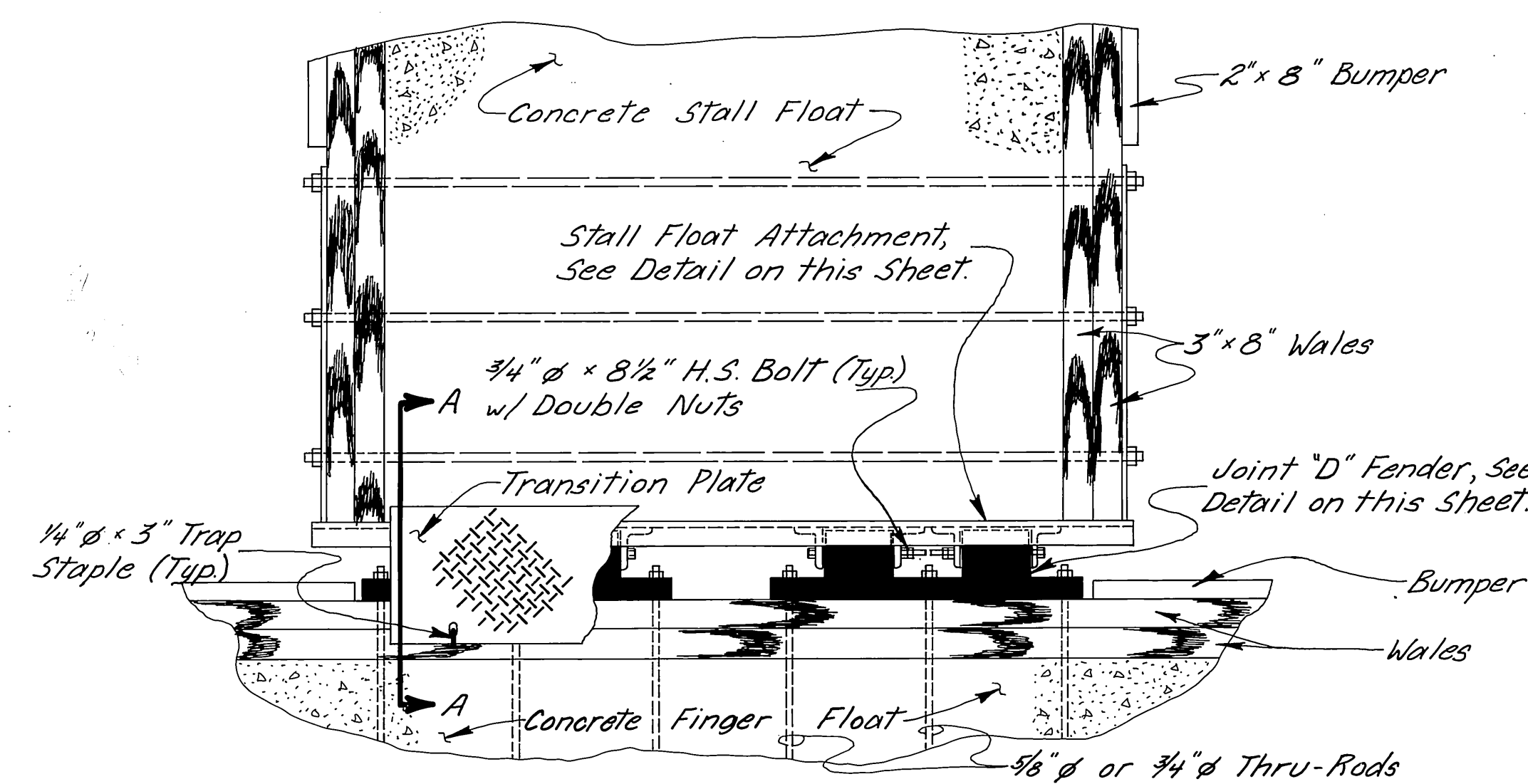
STALL FLOAT TRANSITION PLATE
1" = 1'-0"



END VIEW

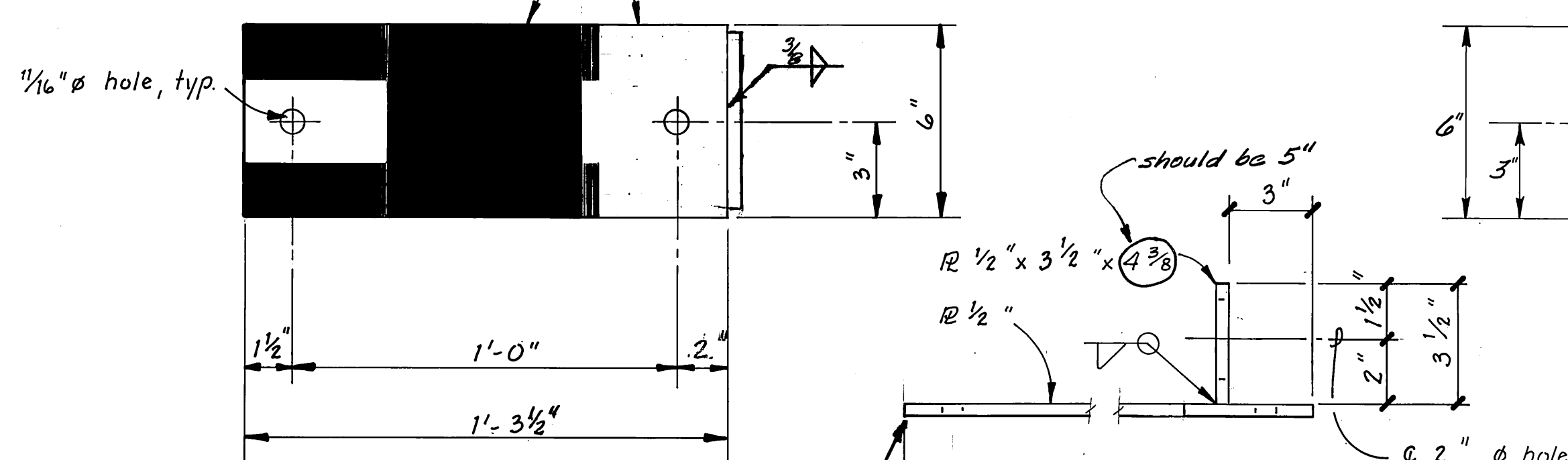


PLAN

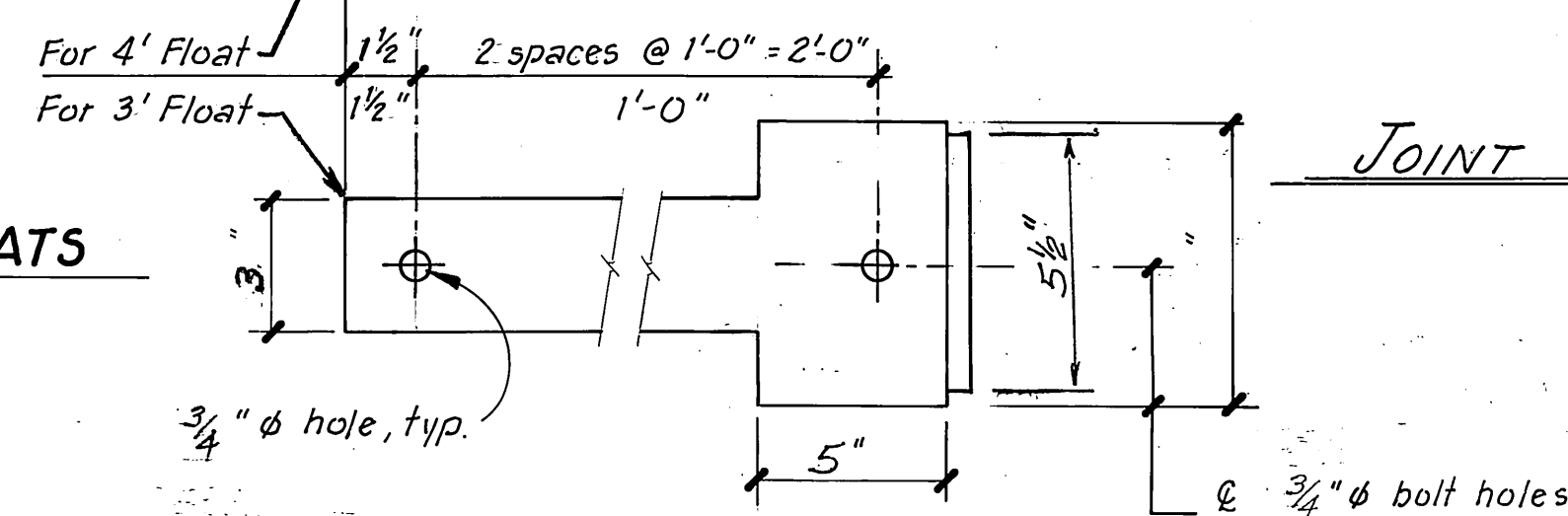


NOTE: 4' & 5' Stall Connection, as Shown.

HINGED STALL FLOAT CONNECTION DETAIL
1" = 1'-0"

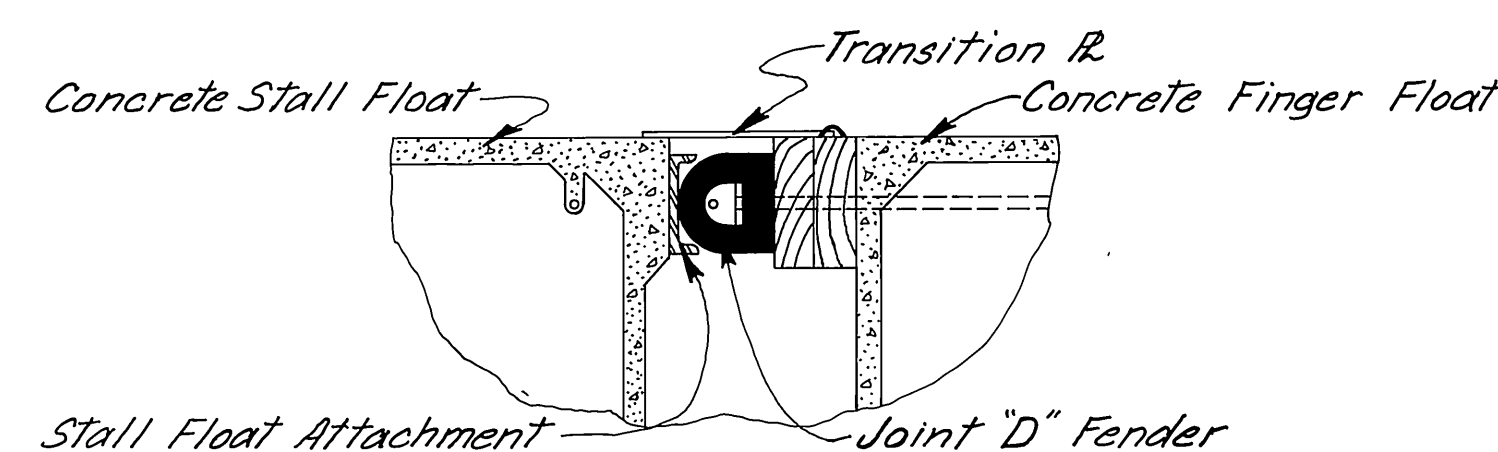


JOINT "D" FENDER FOR 3' FLOATS
3" = 1'-0"

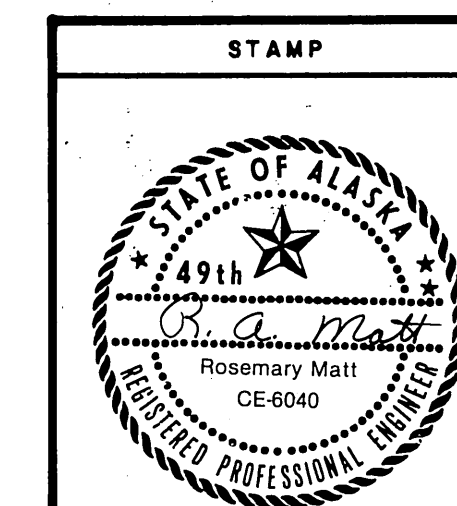


DETAIL "P"
3" = 1'-0"

JOINT "D" FENDER FOR 4' & 5' FLOATS
3" = 1'-0"

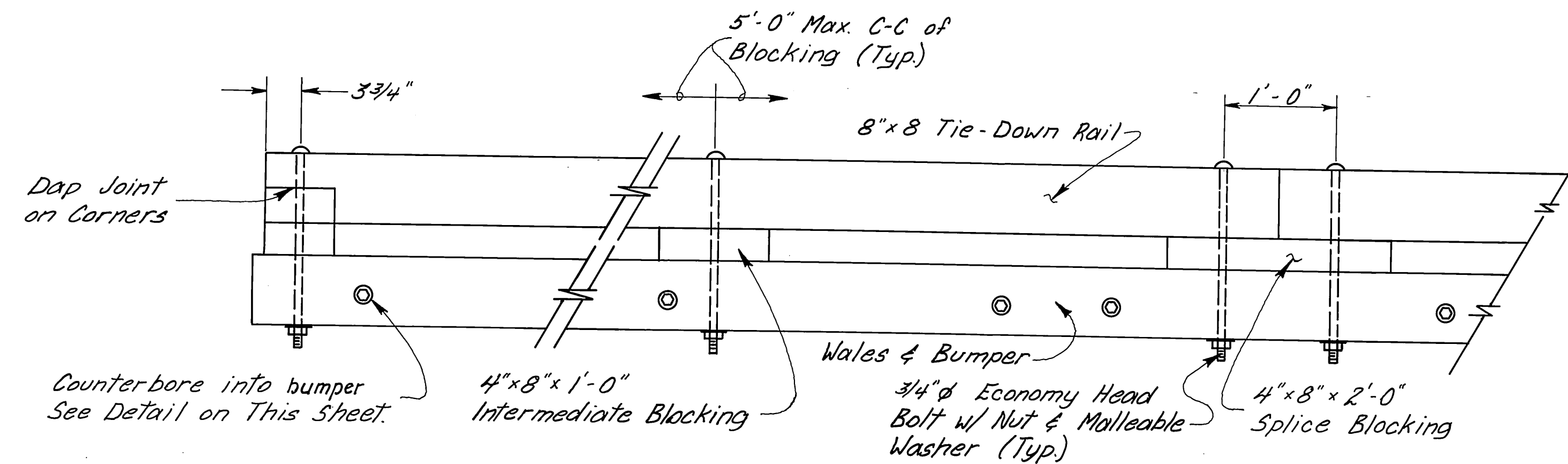


SECTION A-A
1" = 1'-0"

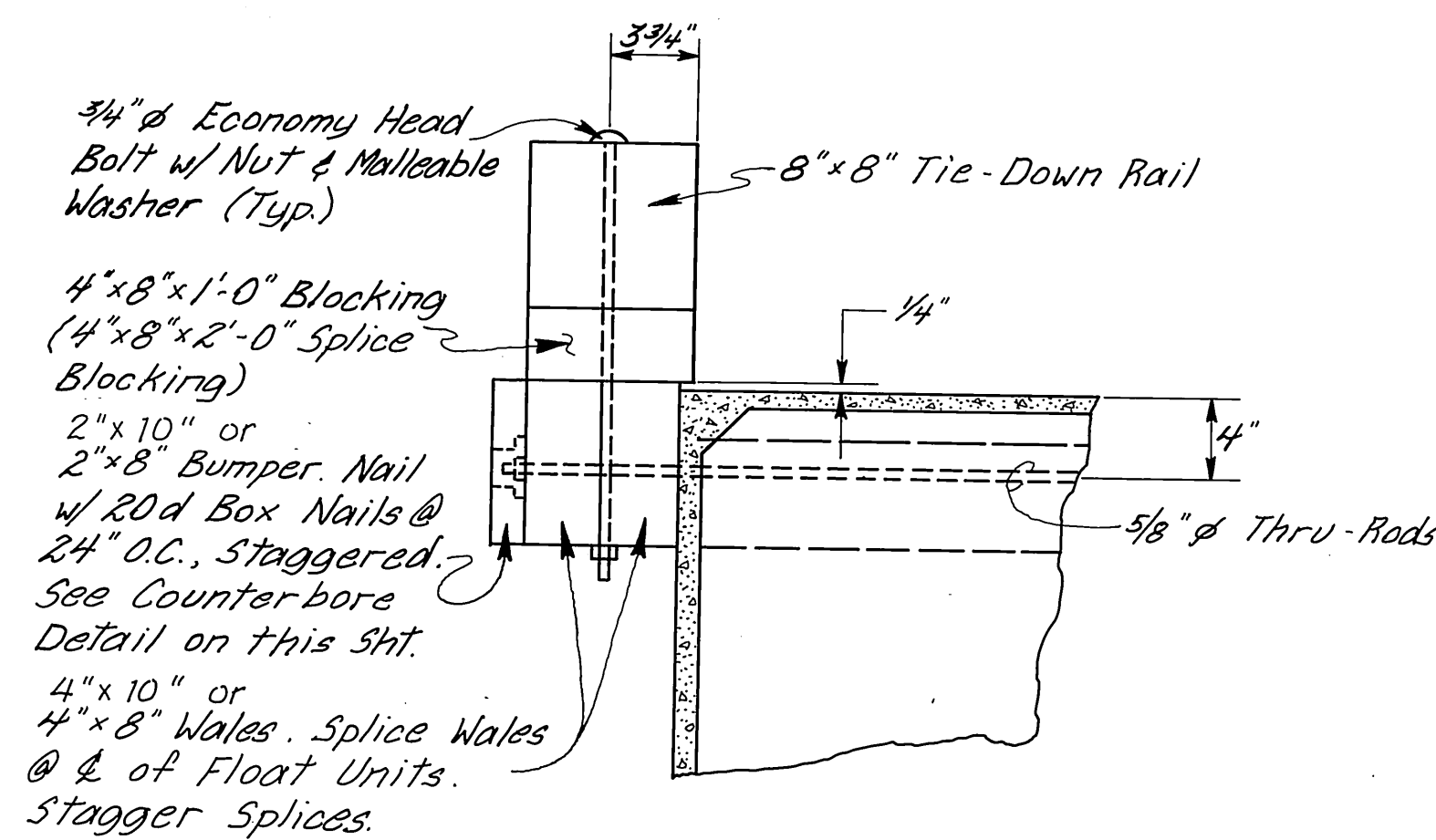


DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
PETERSBURG		ALASKA	
TYPICAL STALL FLOAT CONNECTION			
DESIGNED <u>staff</u>	CHECKED <u>RAM</u>	DRAWN <u>JM</u>	DATE <u>3/83</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>31</u> OF <u>55</u>		

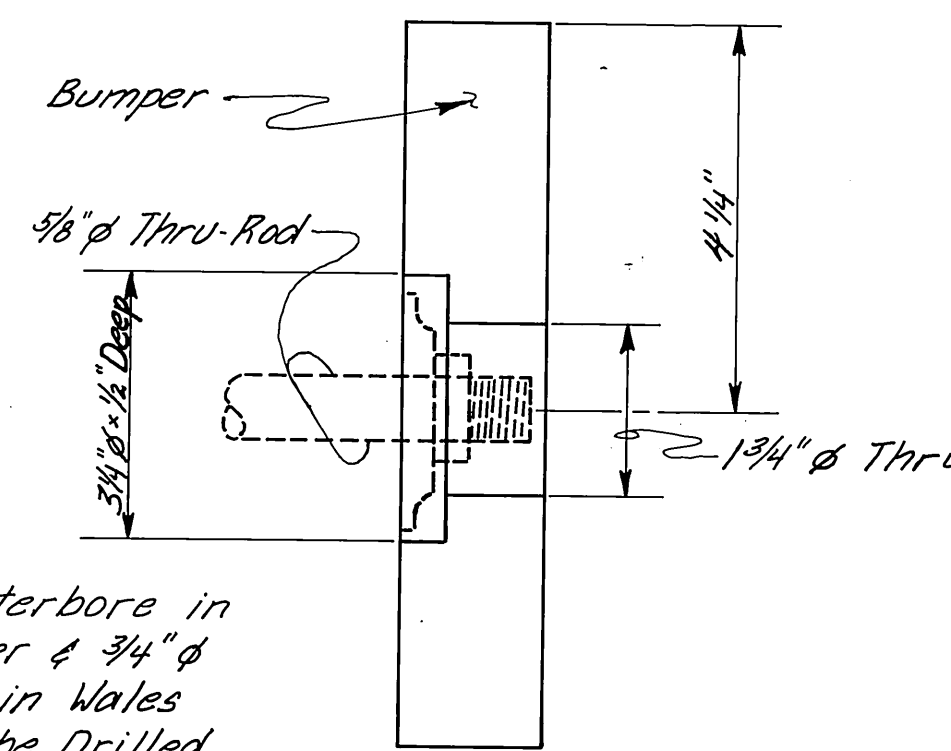
DCW 1-22-87



TIE-DOWN RAIL DETAILS
1" = 1'-0"

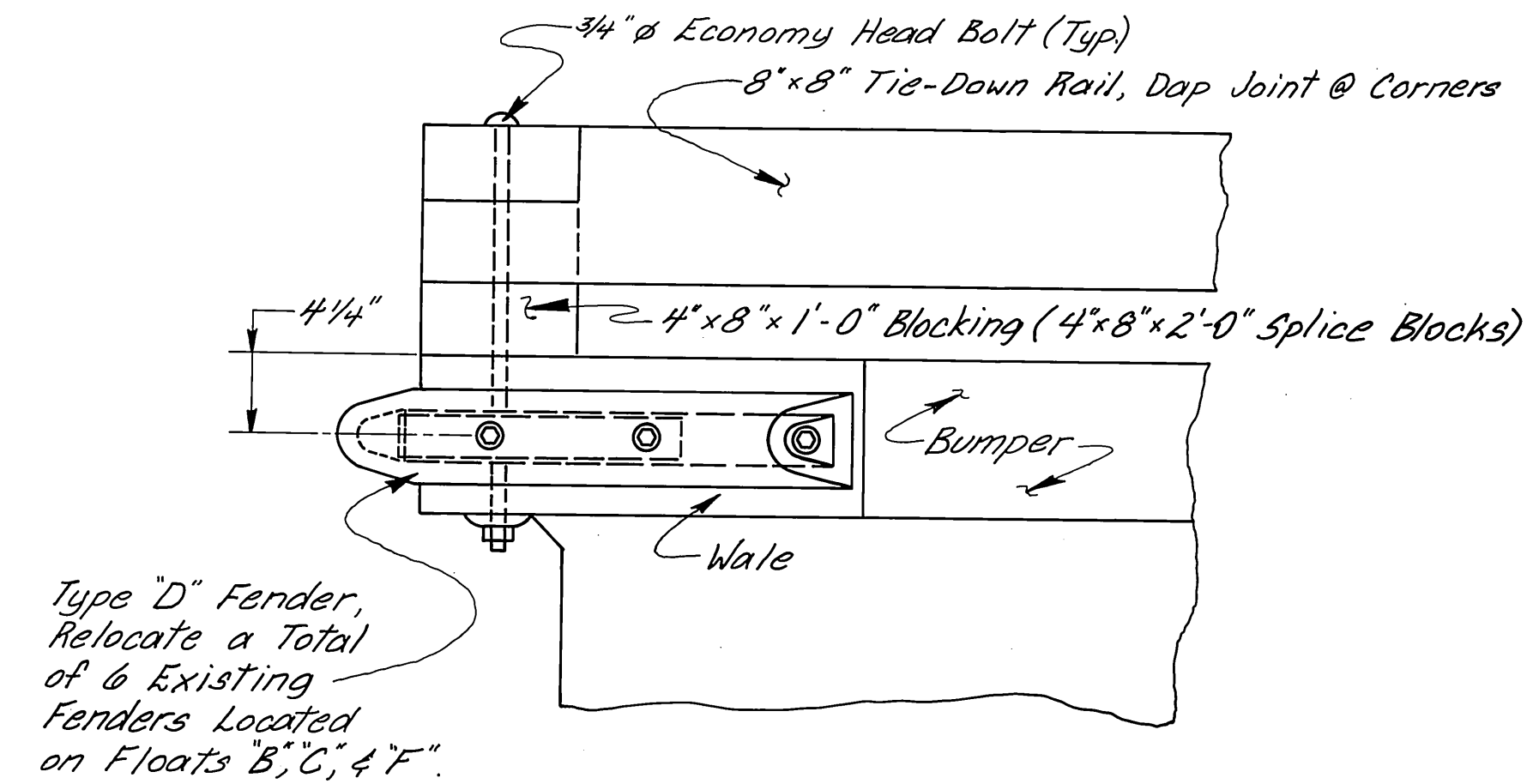


TYPICAL FLOAT TIMBER
1 1/2" = 1'-0"

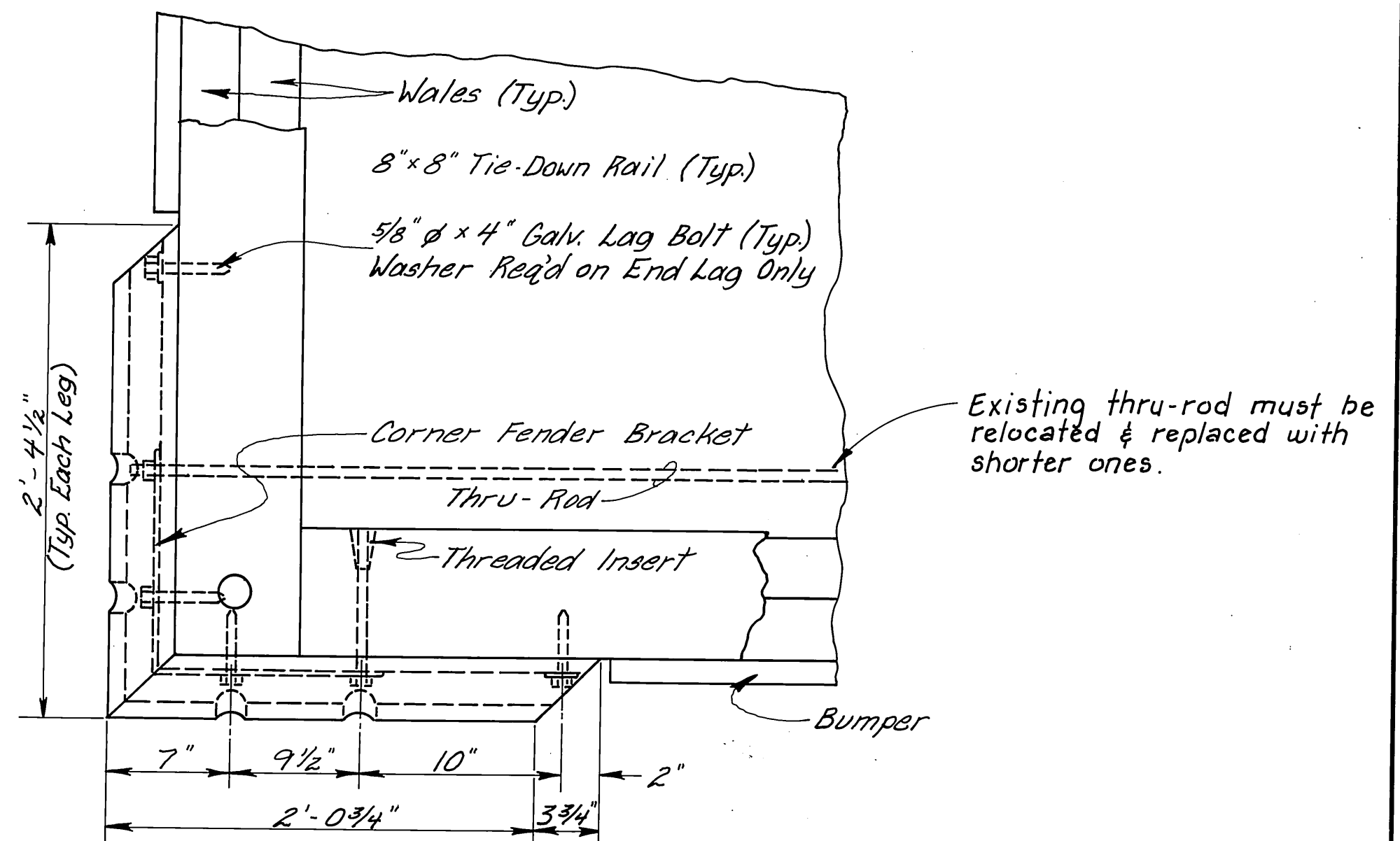


NOTE: Counterbore in Bumper & 3/4" ϕ Holes in Wales Shall be Drilled to Match 3/4" ϕ PVC sleeve spacing.

COUNTERBORE DETAIL
6" = 1'-0"



ELEVATION
1 1/2" = 1'-0"

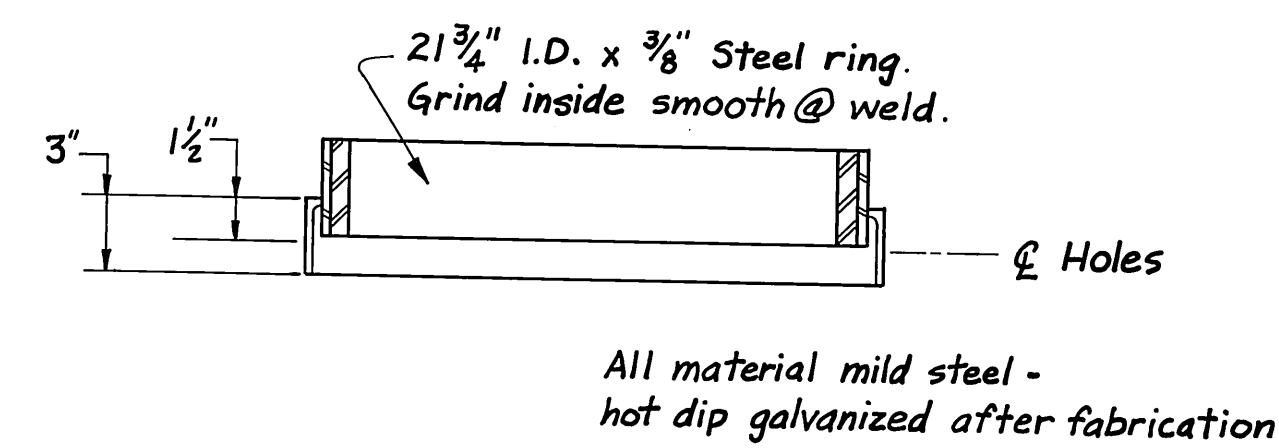
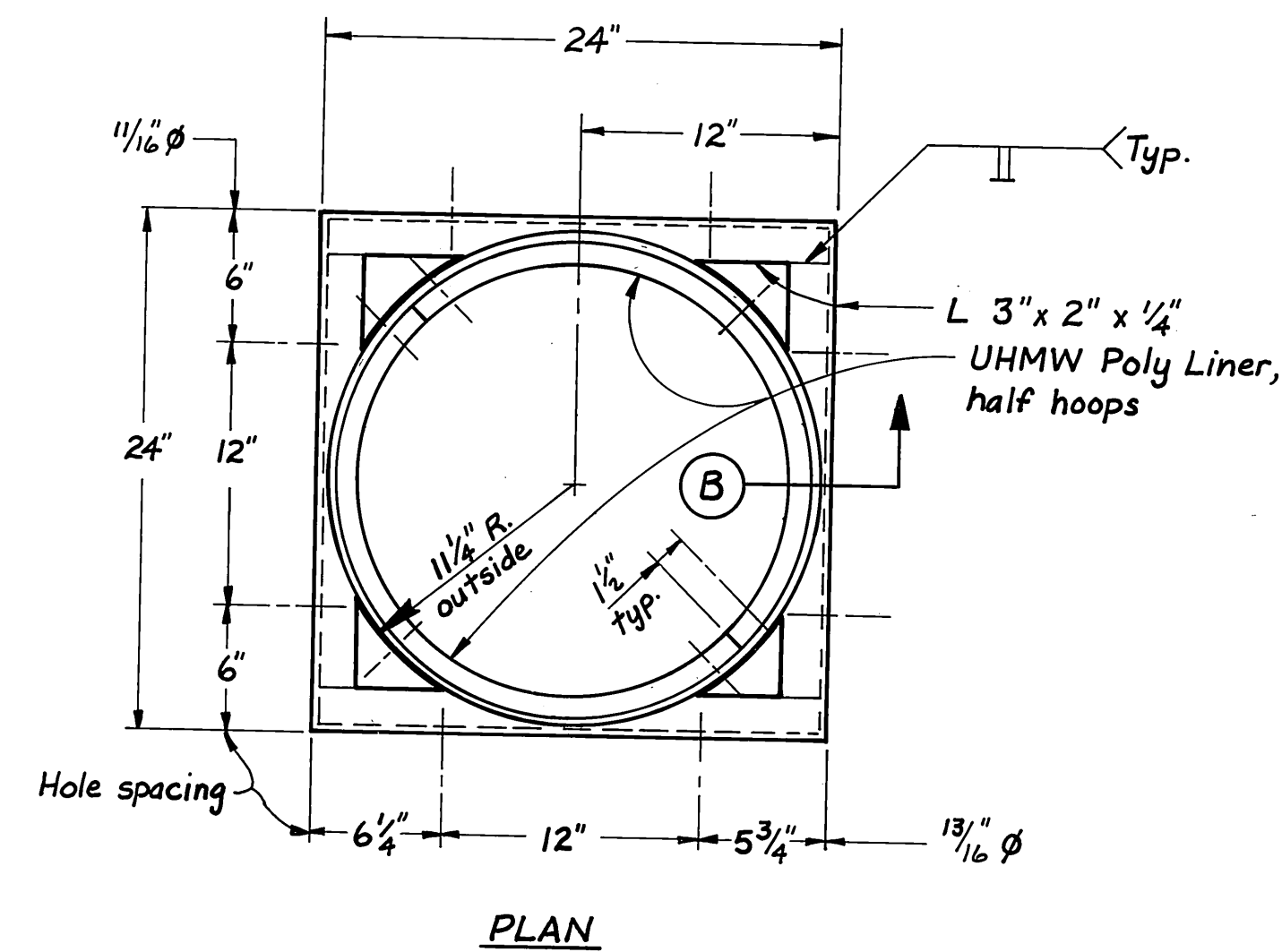
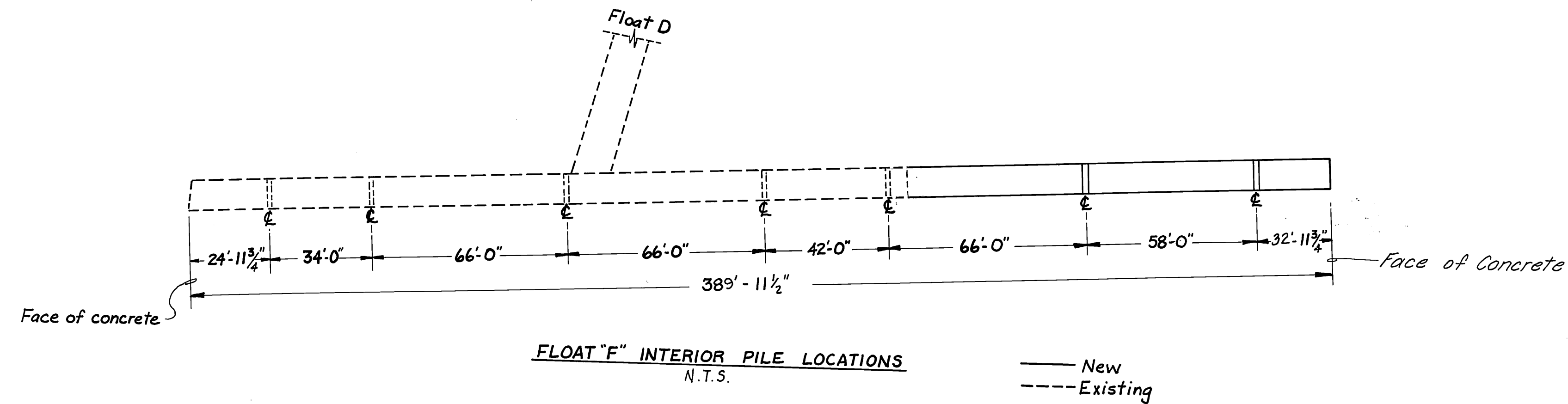


PLAN
1 1/2" = 1'-0"

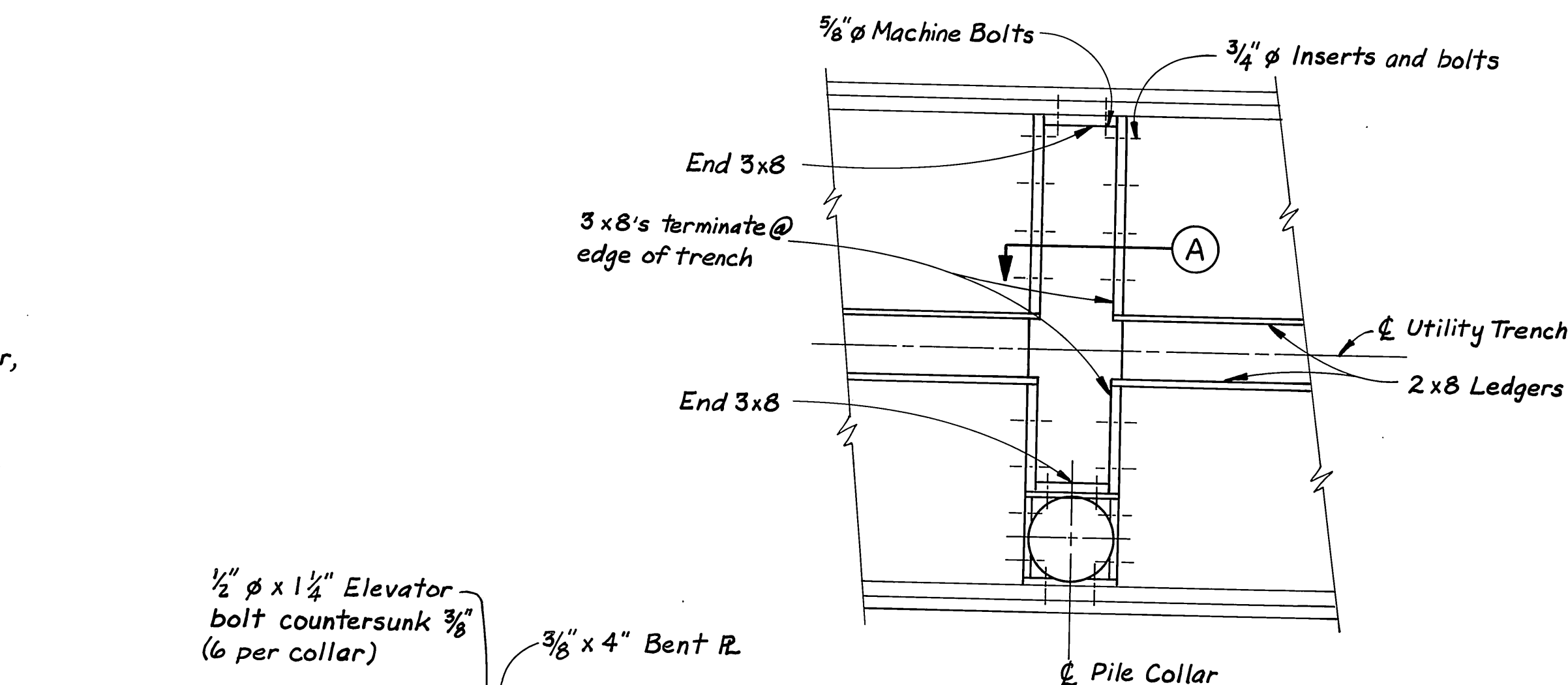
CORNER FENDER DETAILS

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG	ALASKA
MISC. FLOAT DETAILS			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>EM</u>	DATE <u>3/83</u>
PROJECT NUMBER <u>K-78/90</u>	SHEET <u>33</u>		OF <u>55</u>

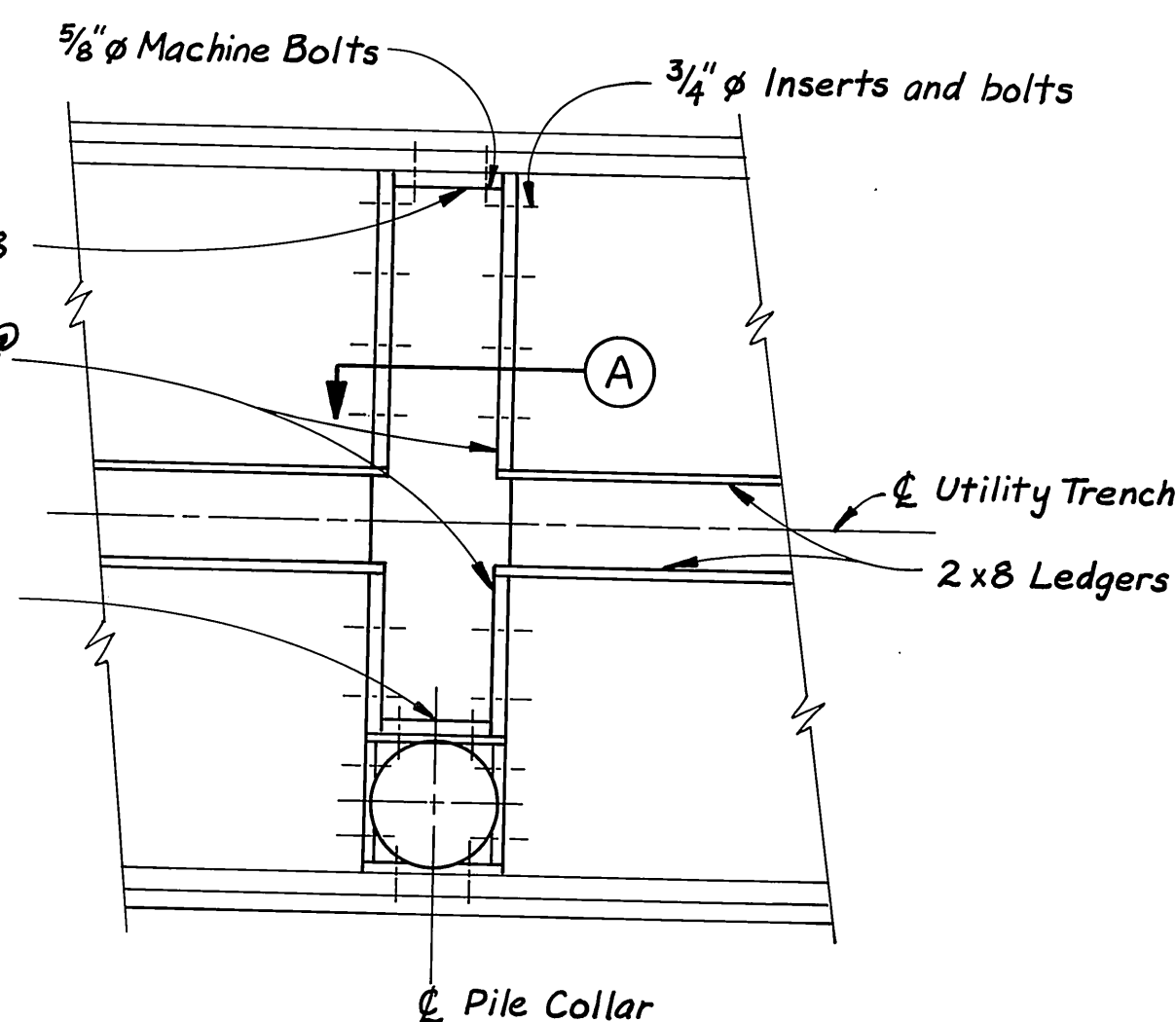
DCW 1-22-87



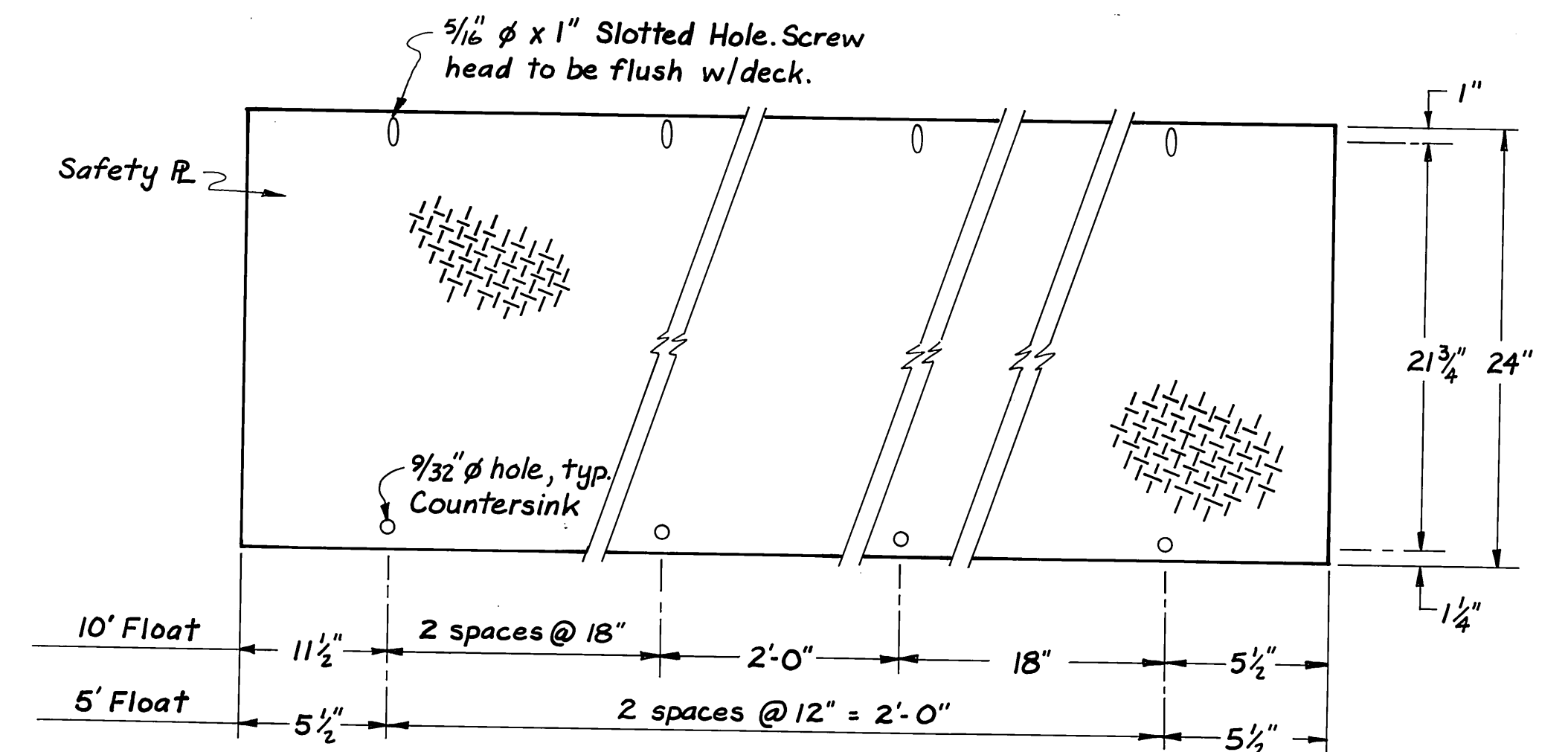
INTERIOR PILE COLLAR WELDMENT DETAILS
1 1/2" = 1'-0"



SECTION (B)
6" = 1'-0"



SECTION (A)
1 1/2" = 1'-0"

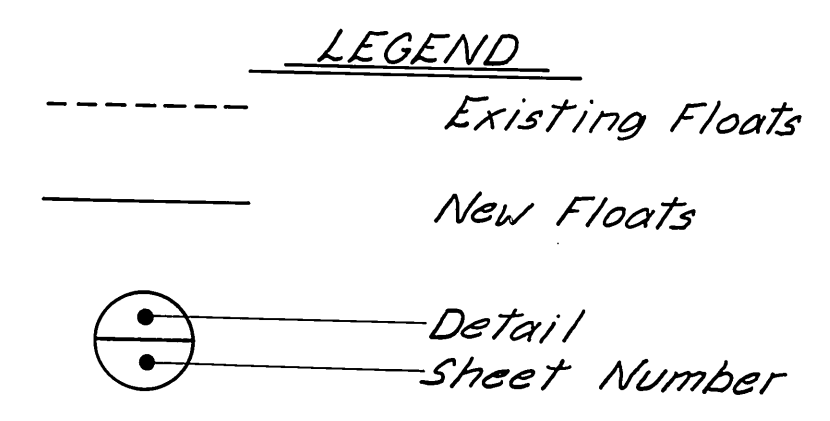


NOTES:

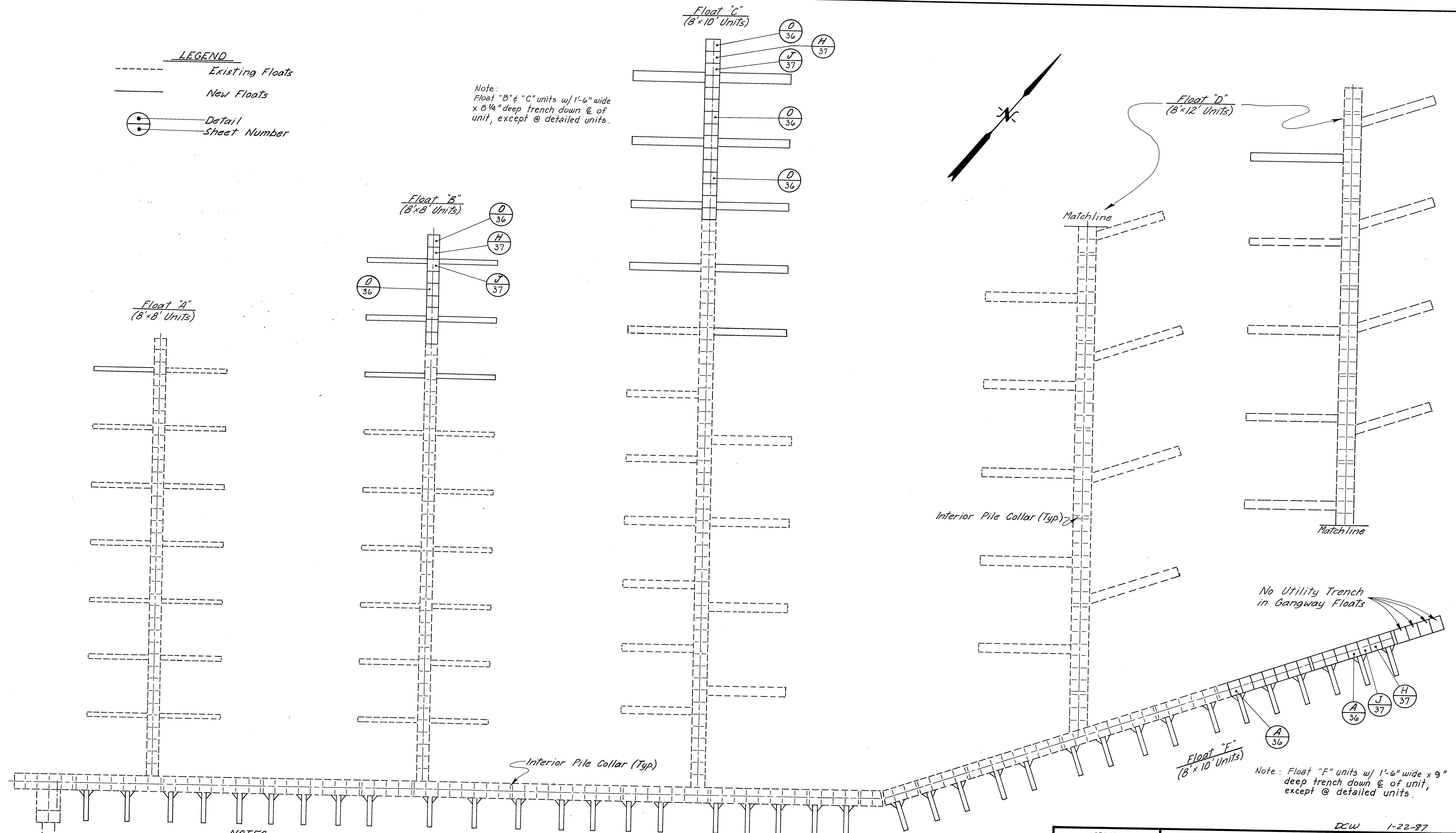
1. 13/16" ϕ holes in 3x8 to be drilled so that top of R will match deck. End 3x8's to be bolted to wales & pile collar weldment.
2. UHMW Poly Liners, as shown, with 3 bolts per half collar are for the case where the UHMW Poly Liner has been heated and then molded to the shape shown. For liners which are cold bent a minimum of 5 bolts per half collar are required. Type of bending shall be called out on the shop drawings.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
 STATE OF ALASKA 49th Rosemary Matt CE-6040 REGISTERED PROFESSIONAL ENGINEER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg Alaska FLOAT F INTERIOR PILE LOCATION & DETAILS	
DESIGNED <i>Staff</i>	CHECKED _____	DRAWN <i>RTB</i>	DATE <i>2/84</i>
PROJECT NUMBER <i>K-78190</i>	SHEET <i>34</i> OF <i>55</i>		

DCW 1-22-87



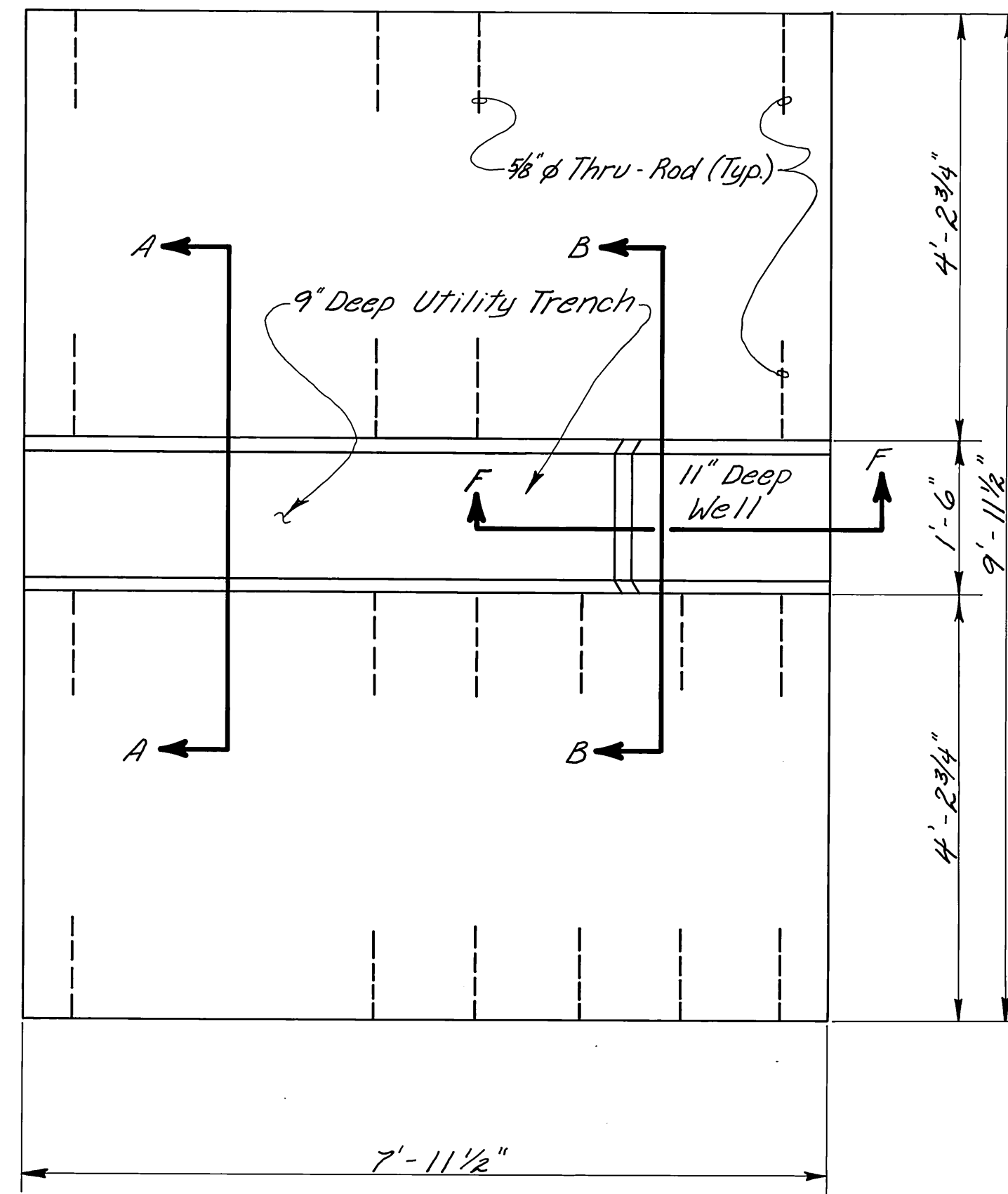
Note:
Float "B" & "C" units w/ 1'-6" wide
x 8 1/4" deep trench down @ of
unit, except @ detailed units.



- NOTES**
1. For Float Dry Fire Line Layout & Details, See Sht. 38-43 & **Float "E"**
 2. For Float Electrical System Layout & Details, See Sht. 48-51
 3. For Stall Float Dimensions, See General Layout & Sht. 29 & 30.

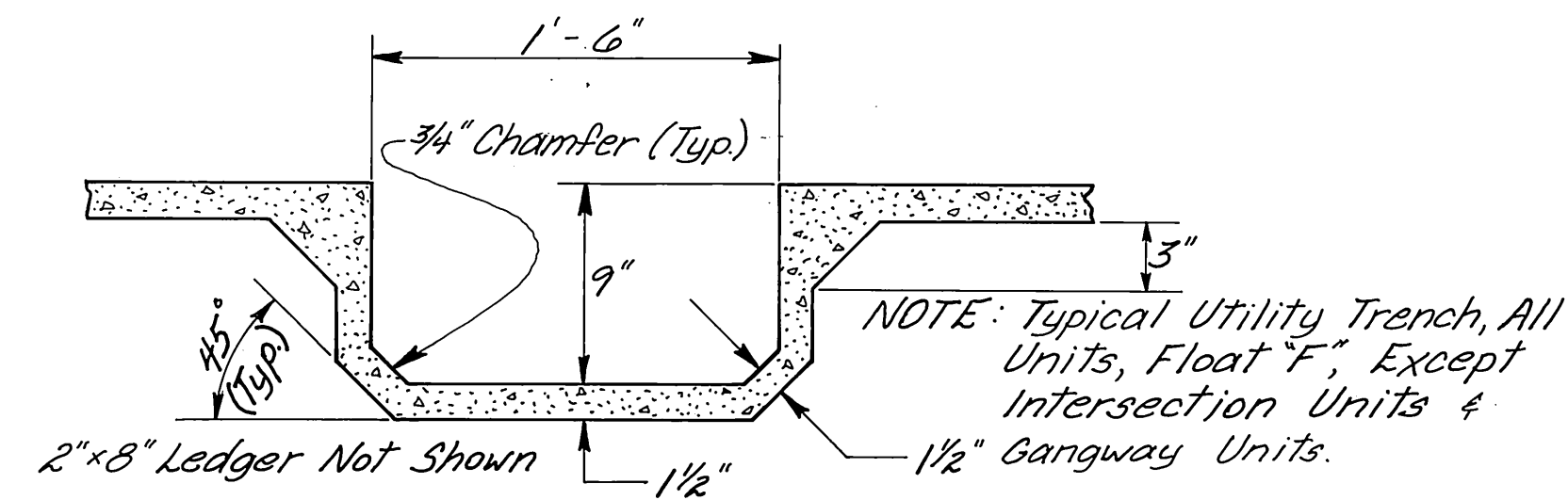
- DETAIL DESCRIPTIONS**
- A - Exp/Cont. Assembly Only
 - H - Finger Float Fire Line Valve Cross Trench.
 - J - Finger Float Fire Line Tee w/ Hydrant on the Northeast Side of Floats "B" & "C" and the North Side of Float "F".
 - O - Finger Float w/ Meterbase on Each Side & Exp/Cont. Assembly as Required.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG ALASKA	
		MAIN & FINGER FLOAT UNIT LAYOUT, BY TYPE	
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>DM</u>	DATE <u>3/84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>35</u>		OF <u>55</u>

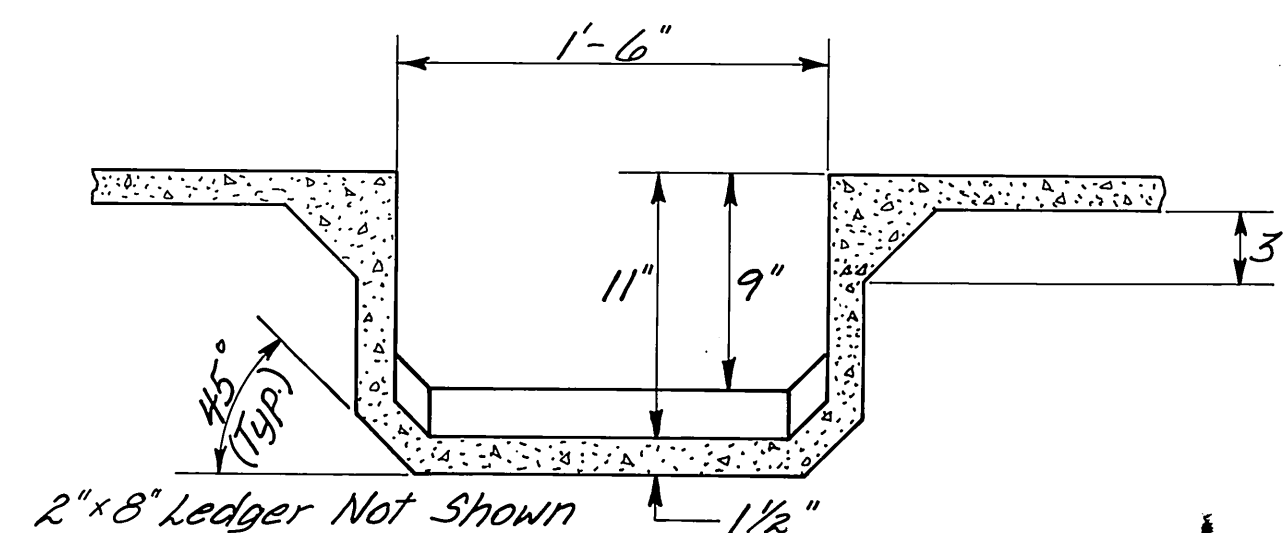


DETAIL "A"
3/4" = 1'-0"

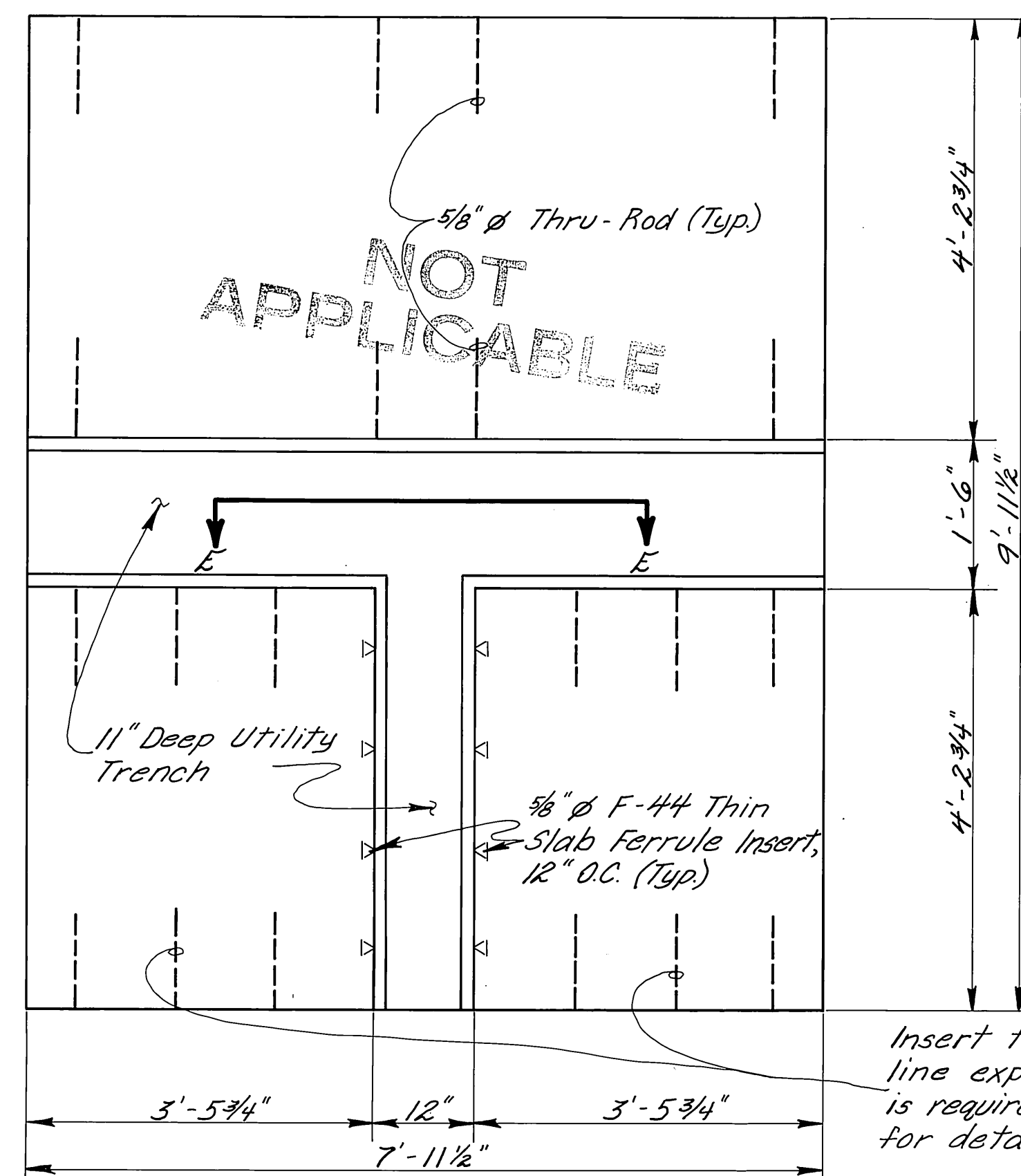
(Trench for Contraction/Expansion Assembly)



SECTION A-A
1-1/2" = 1'-0"

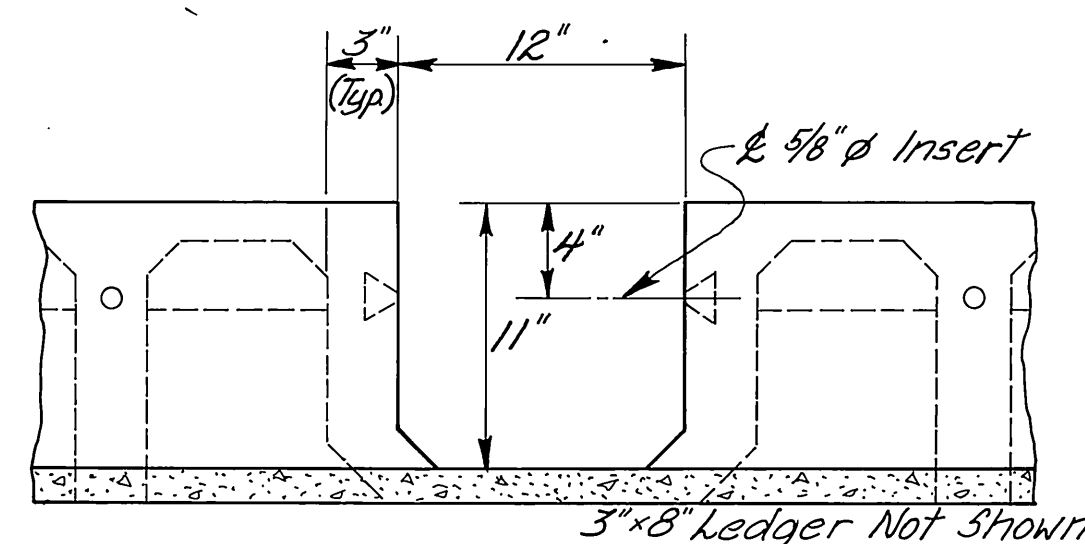


SECTION B-B
1-1/2" = 1'-0"

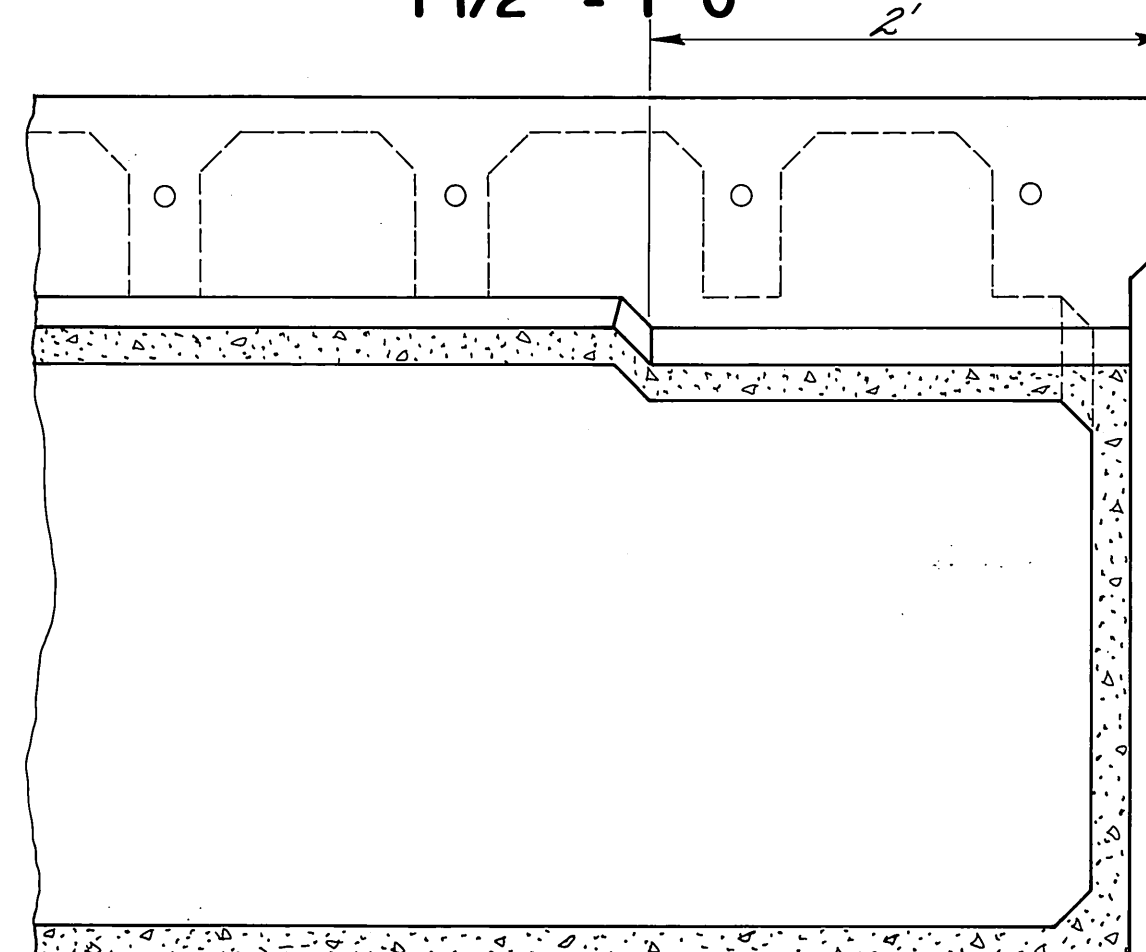


DETAIL "C"
3/4" = 1'-0"

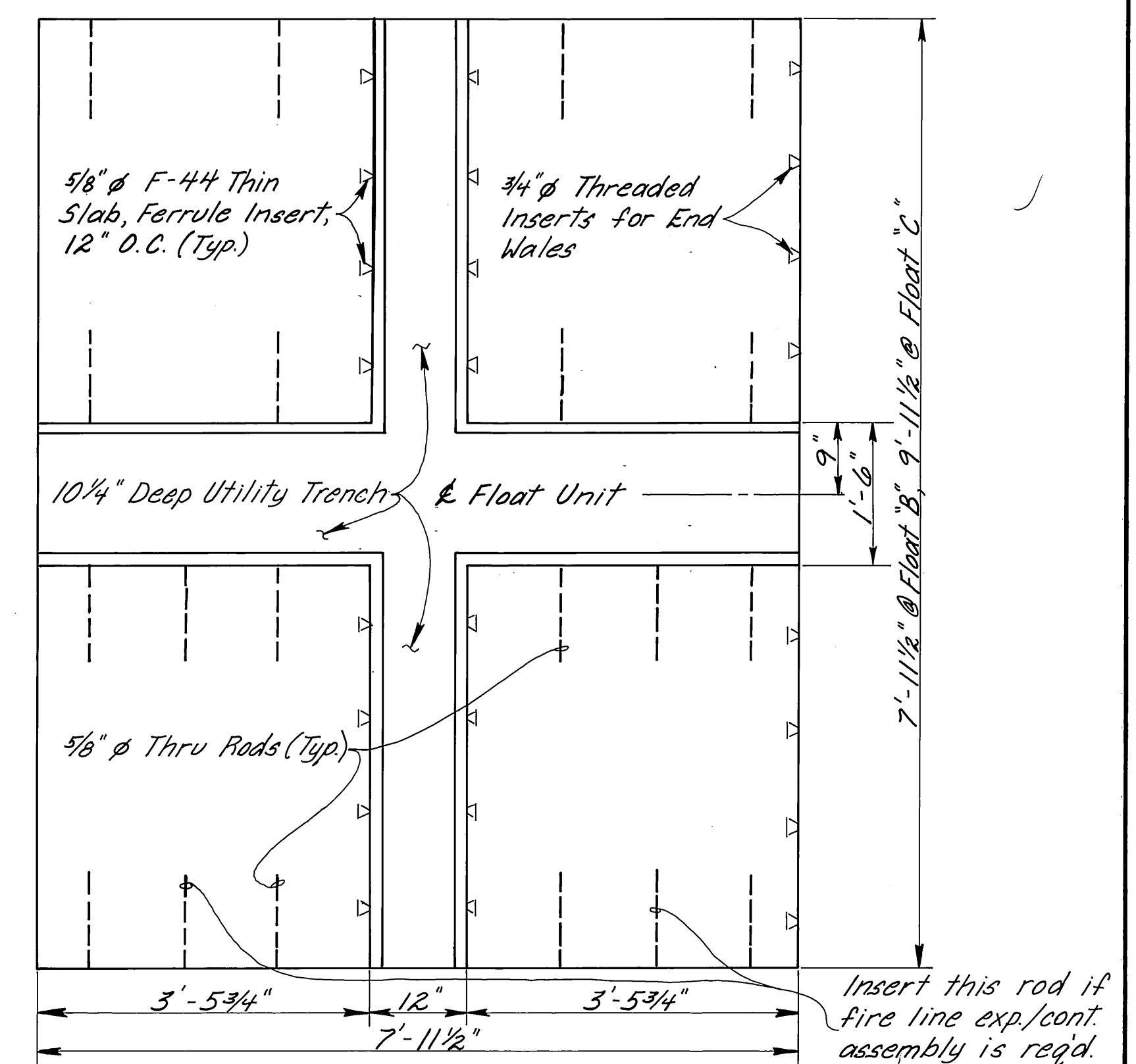
(Electrical Cross Trench for Float "F")



SECTION E-E
1-1/2" = 1'-0"



SECTION F-F
1-1/2" = 1'-0"



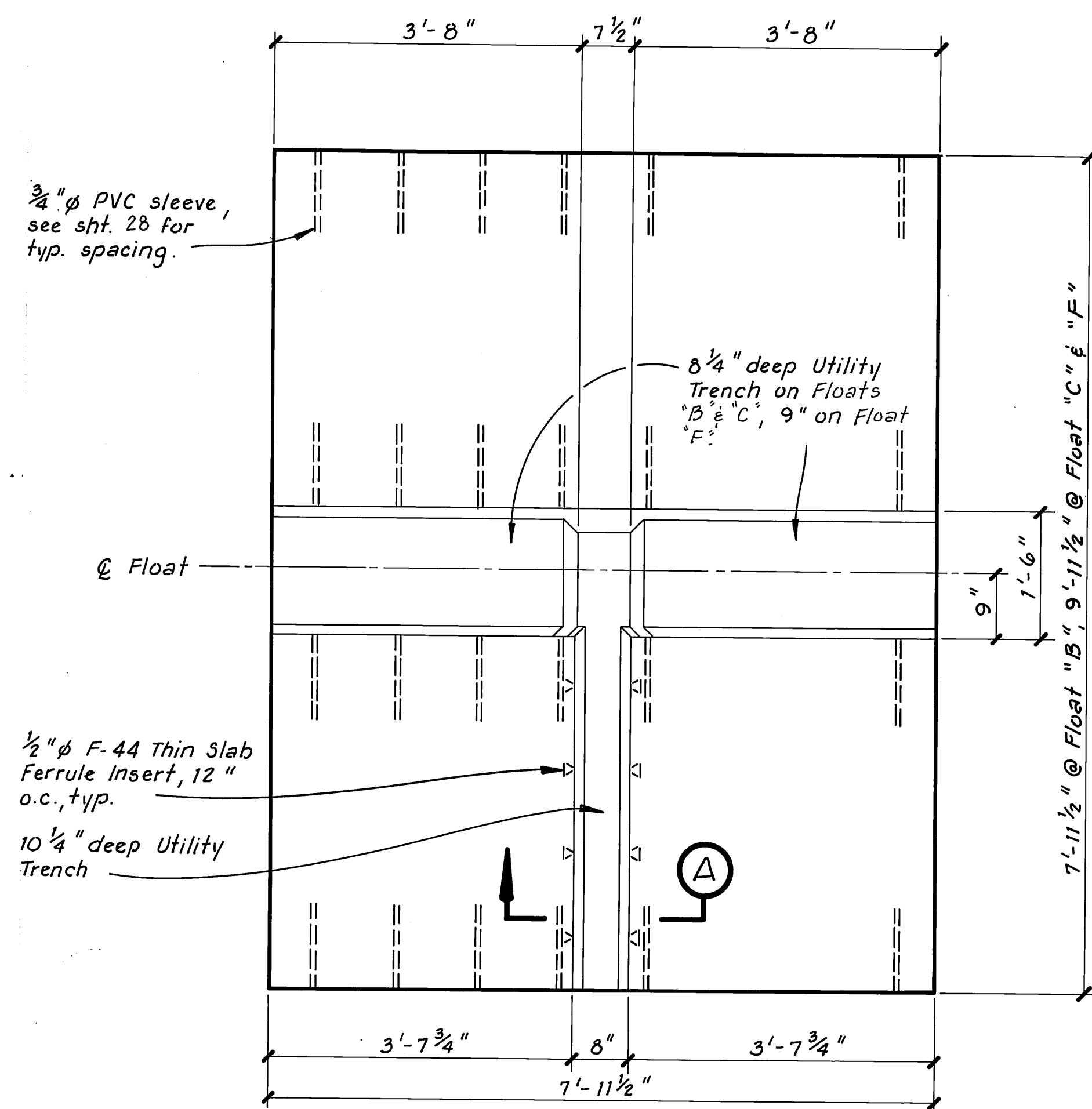
DETAIL "O"
3/4" = 1'-0"

(Finger Float w/ Meterbase ea. side & exp/cont. assembly, as required)

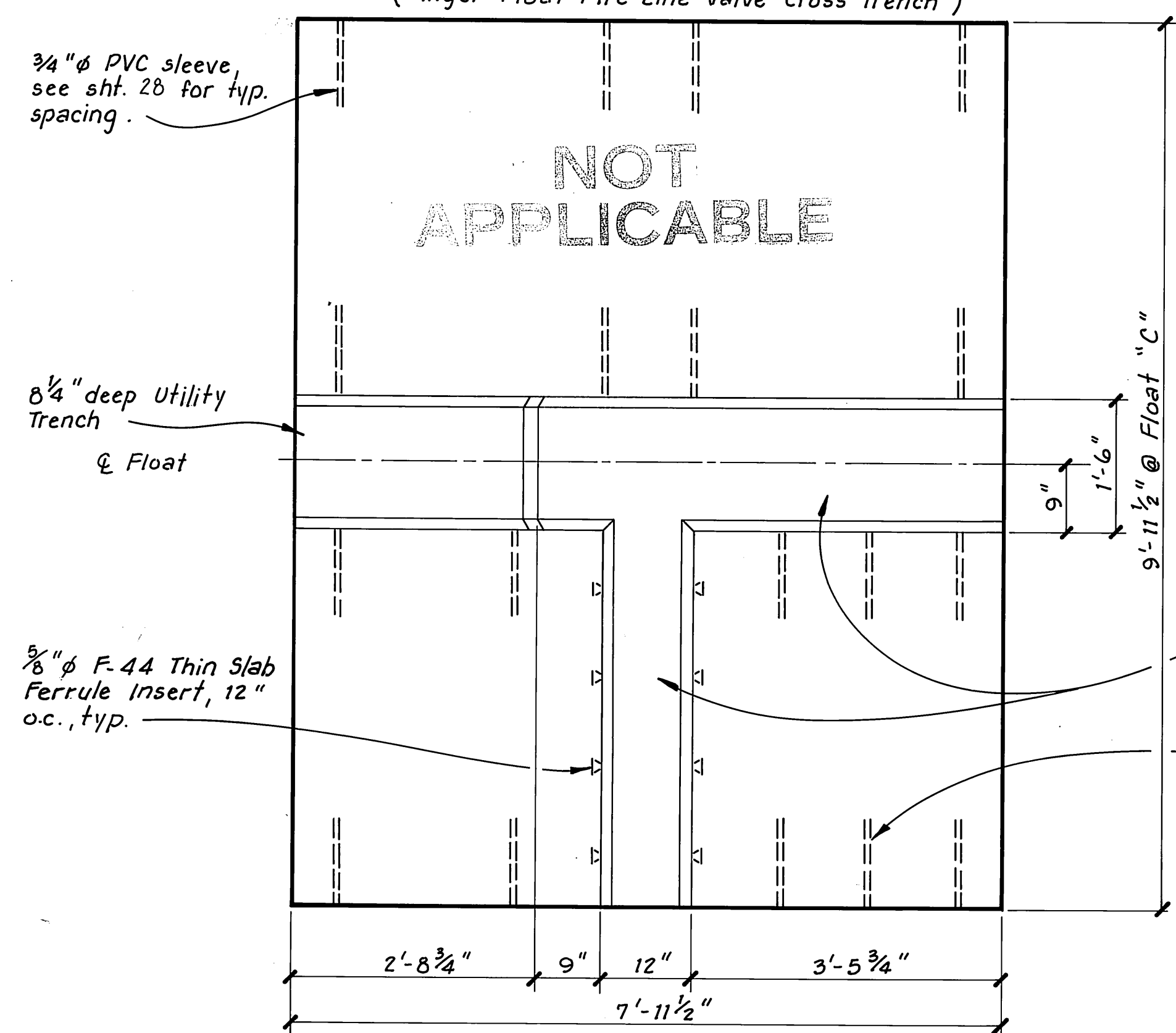
NOTES

1. See sheet 28 for additional details & reinforcing.
2. Ledgers not shown: 2"x8" ledgers in main trench & fire line cross trenches, 3"x8" ledgers in electrical trench.

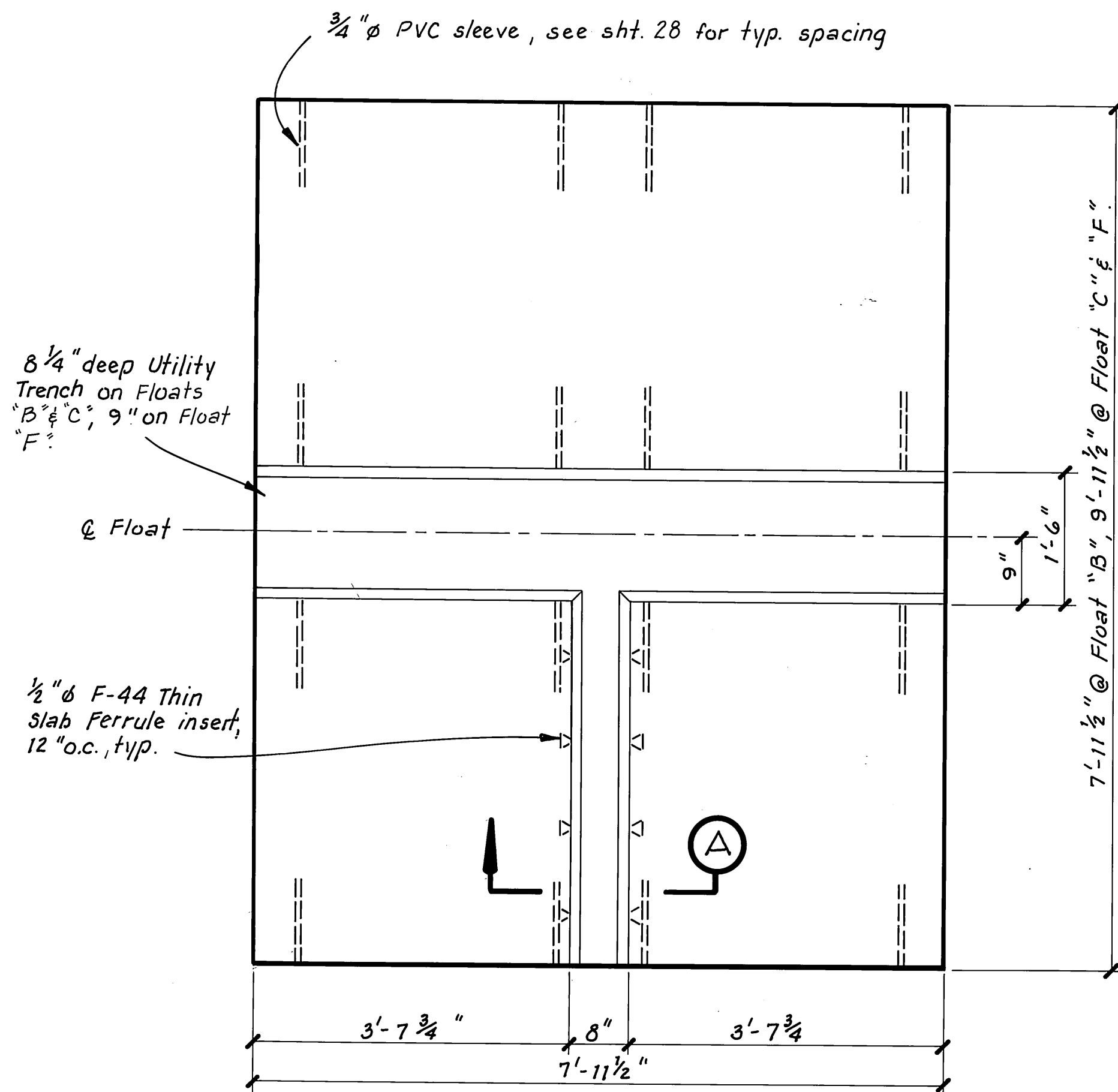
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG, ALASKA	
		UTILITY TRENCH INTERSECTIONS	
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>EM</u>	DATE <u>3/83</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>36</u> OF <u>55</u>		



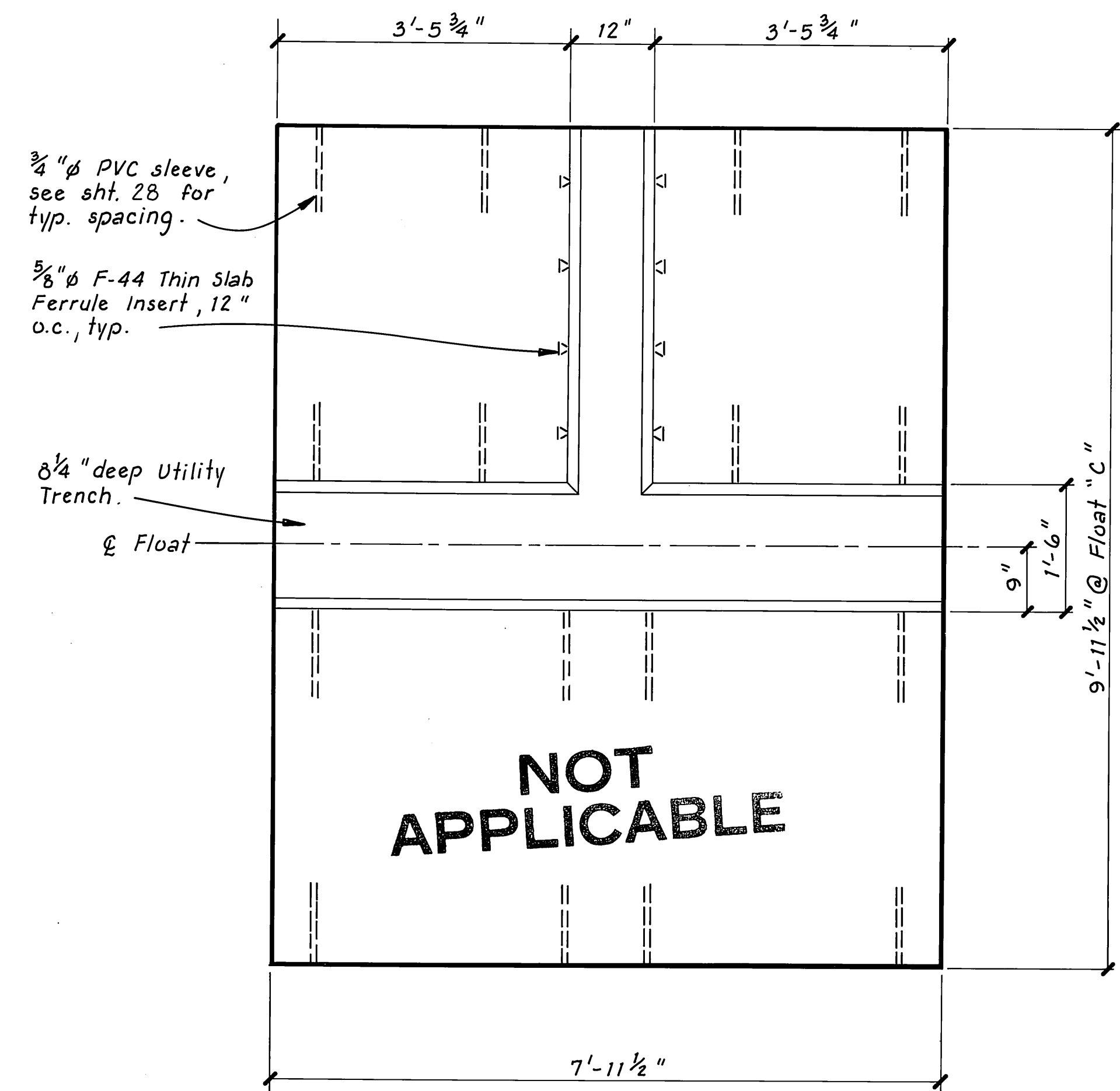
DETAIL (H)
3/4" = 1'-0"
(Finger Float Fire Line Valve Cross Trench)



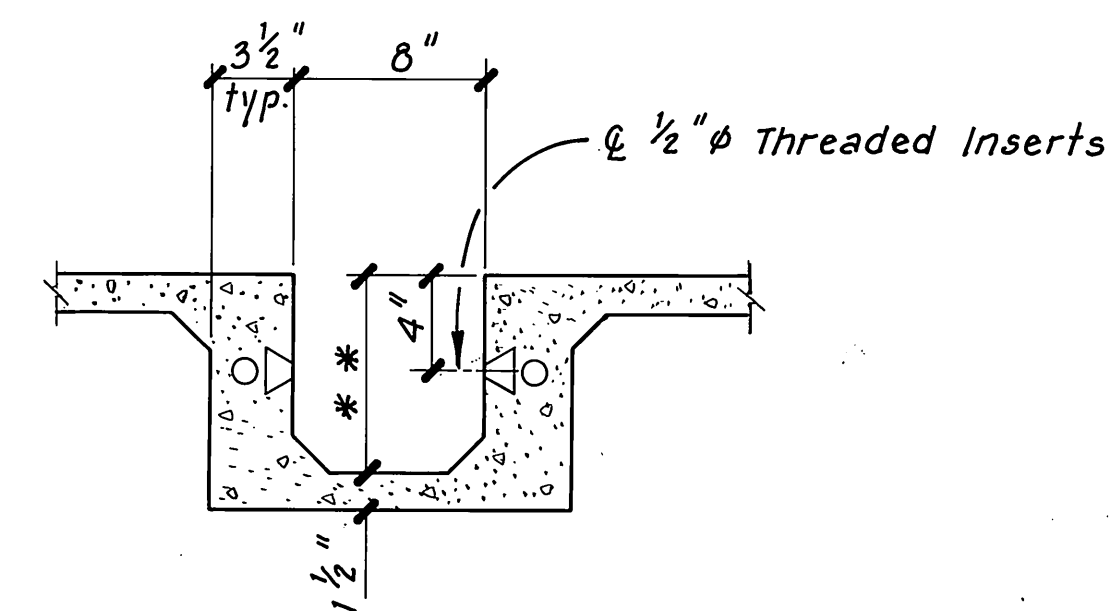
DETAIL (L)
3/4" = 1'-0"
(Finger Float w/ Meterbase on Northwest side and Exp./Cont. assembly as req'd.)



DETAIL (J)
3/4" = 1'-0"
(Finger Float Fire Line Tee w/ Hydrant on the Northeast side of Float "B" & "C" or North side of Float "F".)



DETAIL (K)
3/4" = 1'-0"
(Finger Float Electrical w/ Meterbase on Southwest side.)

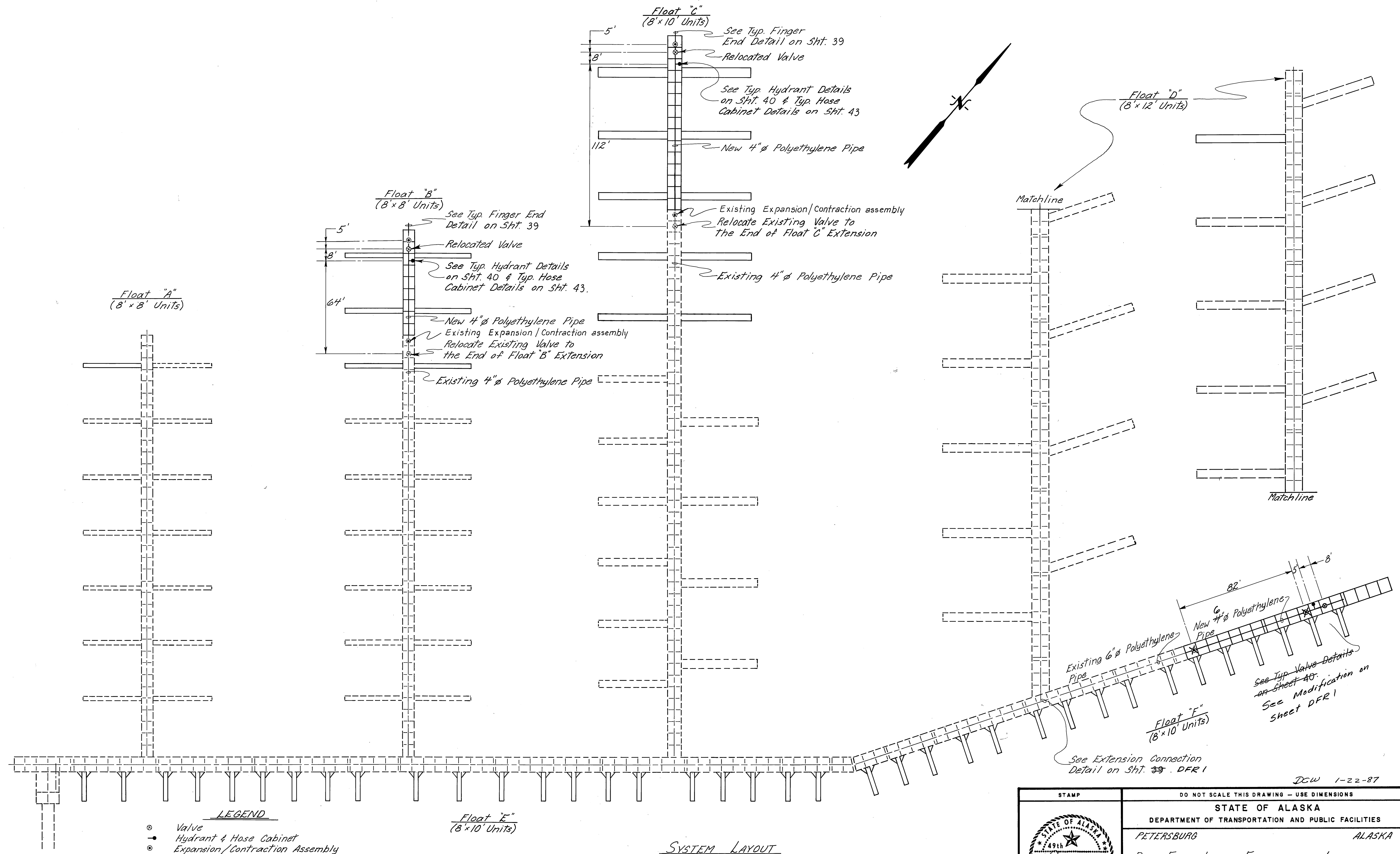


** 8 1/4" or 10 1/4", see details this sheet.
SECTION (A)
1 1/2" = 1'-0"

- NOTE:
- See sht. 28 for additional details and reinforcing
 - Ledgers not shown: 2x8 ledgers in main trench and Fireline cross trenches.
3x8 ledgers in electrical cross trenches.

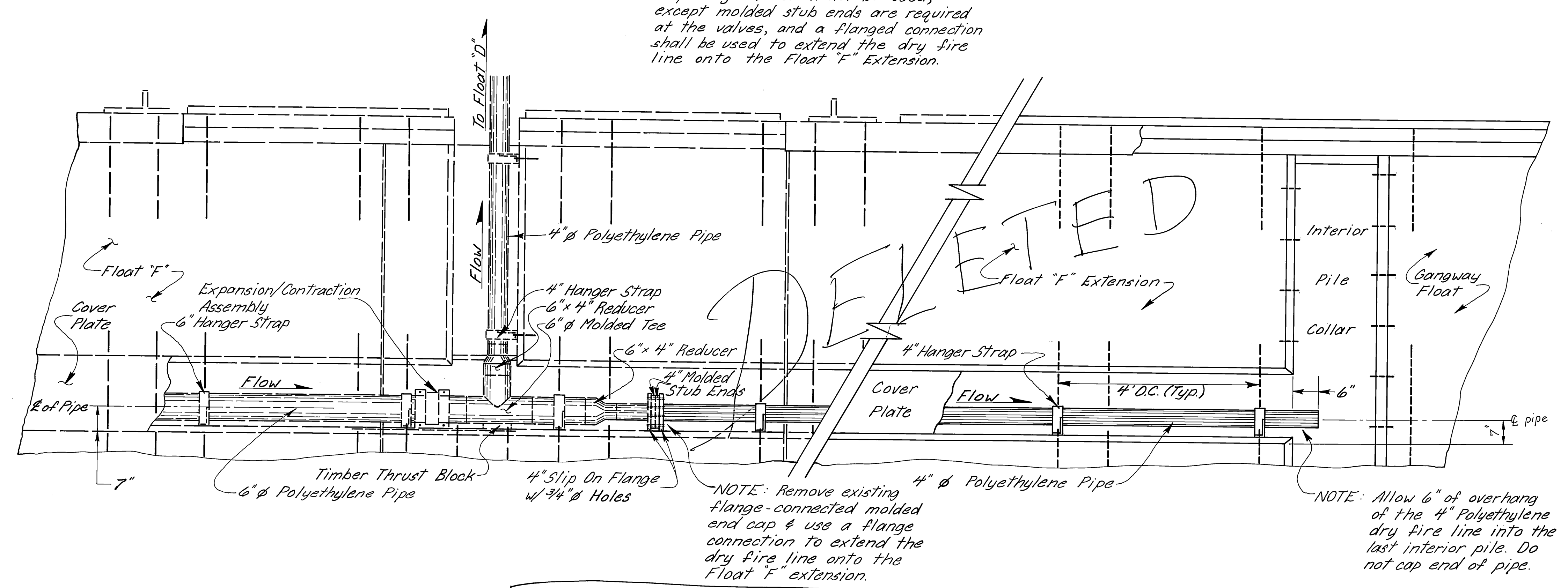
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
UTILITY TRENCH INTERSECTIONS			
DESIGNED	CHECKED	DRAWN	DATE
PROJECT NUMBER	K-78190	SHEET	37 OF 55

DCW - 1-22-87



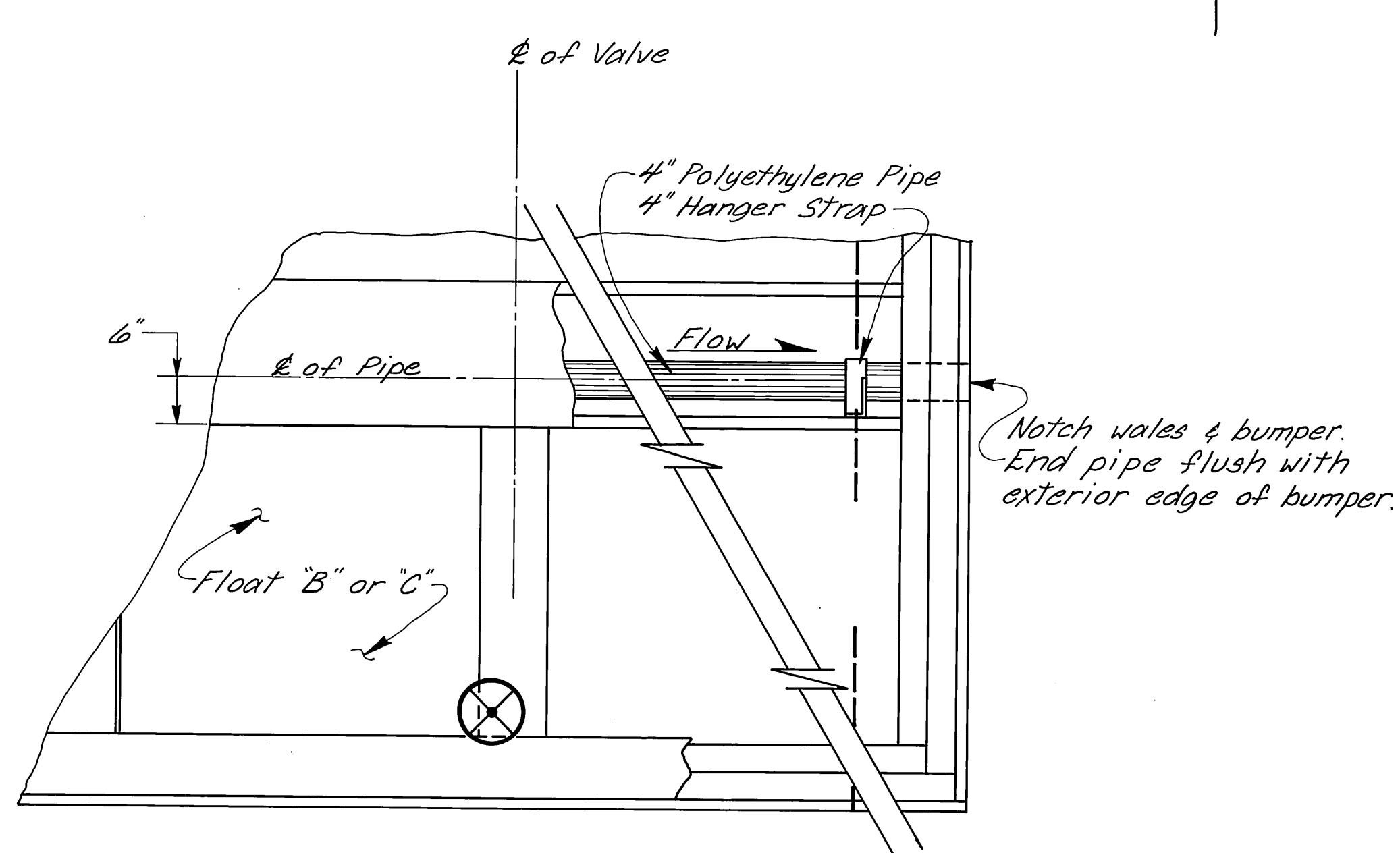
STAMP		DO NOT SCALE THIS DRAWING — USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
PETERSBURG		ALASKA	
DRY FIRE LINE EXTENSION LAYOUT			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>JM</u>	DATE <u>3/84</u>
PROJECT NUMBER <u>K-78190</u>		SHEET <u>38</u> OF <u>55</u>	

NOTE: System & details shown utilize the butt-fusion process. Flanged or coupled joints shall not be used, except molded stub ends are required at the valves, and a flanged connection shall be used to extend the dry fire line onto the Float "F" Extension.



FLOAT "F" SERVICE DETAIL
 $\frac{3}{4}" = 1'-0"$
 See Sheet DFR 1

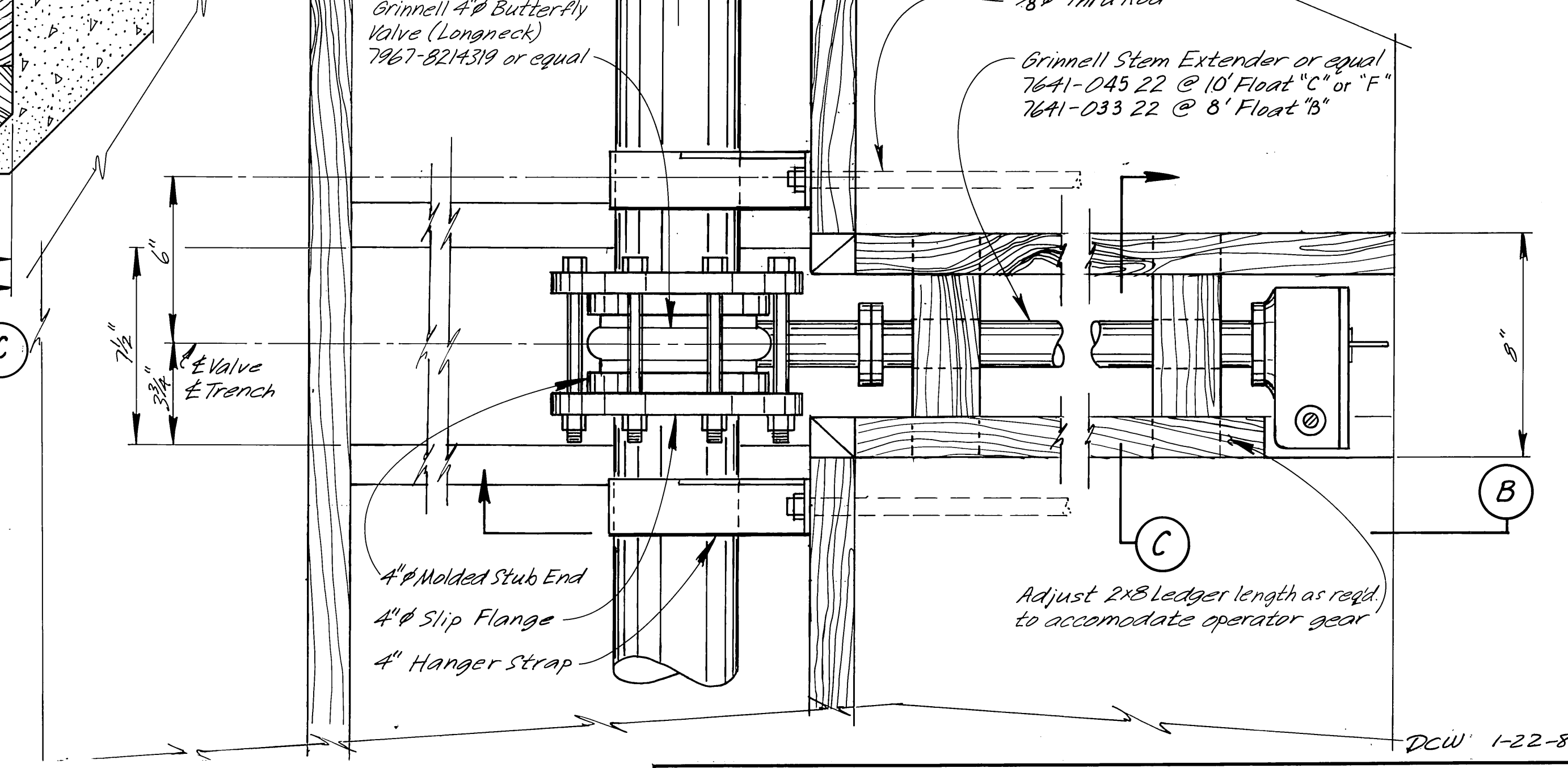
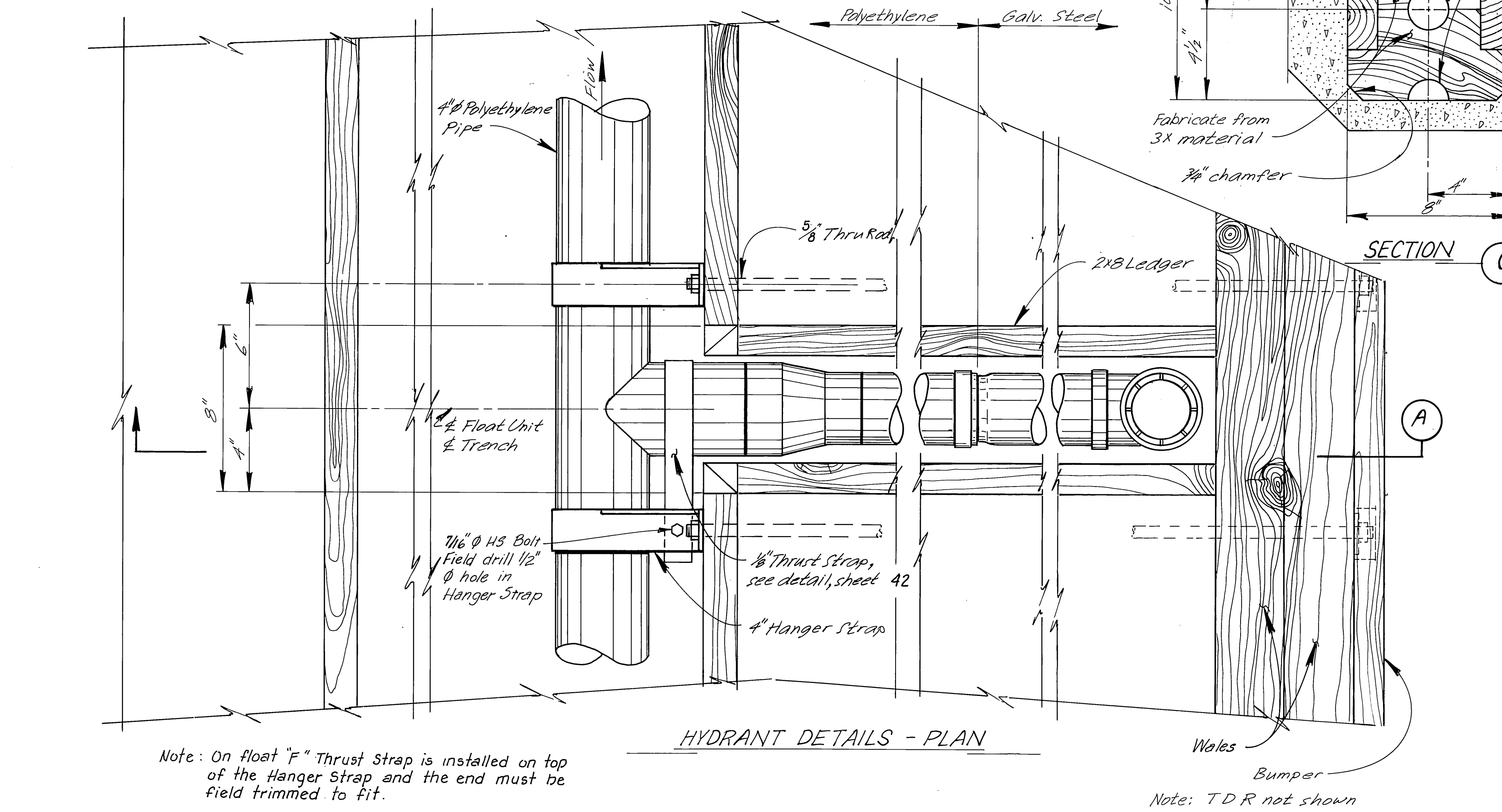
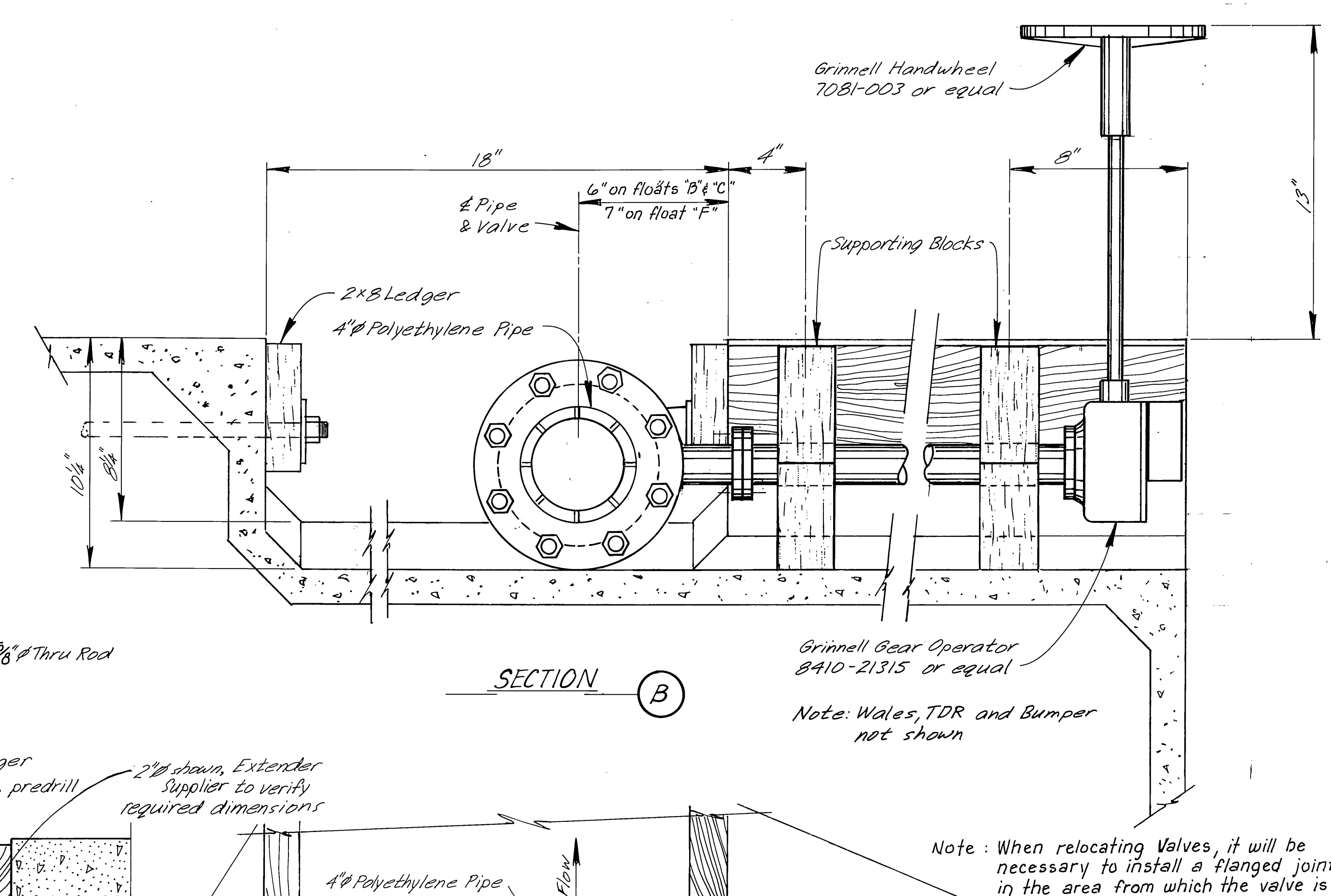
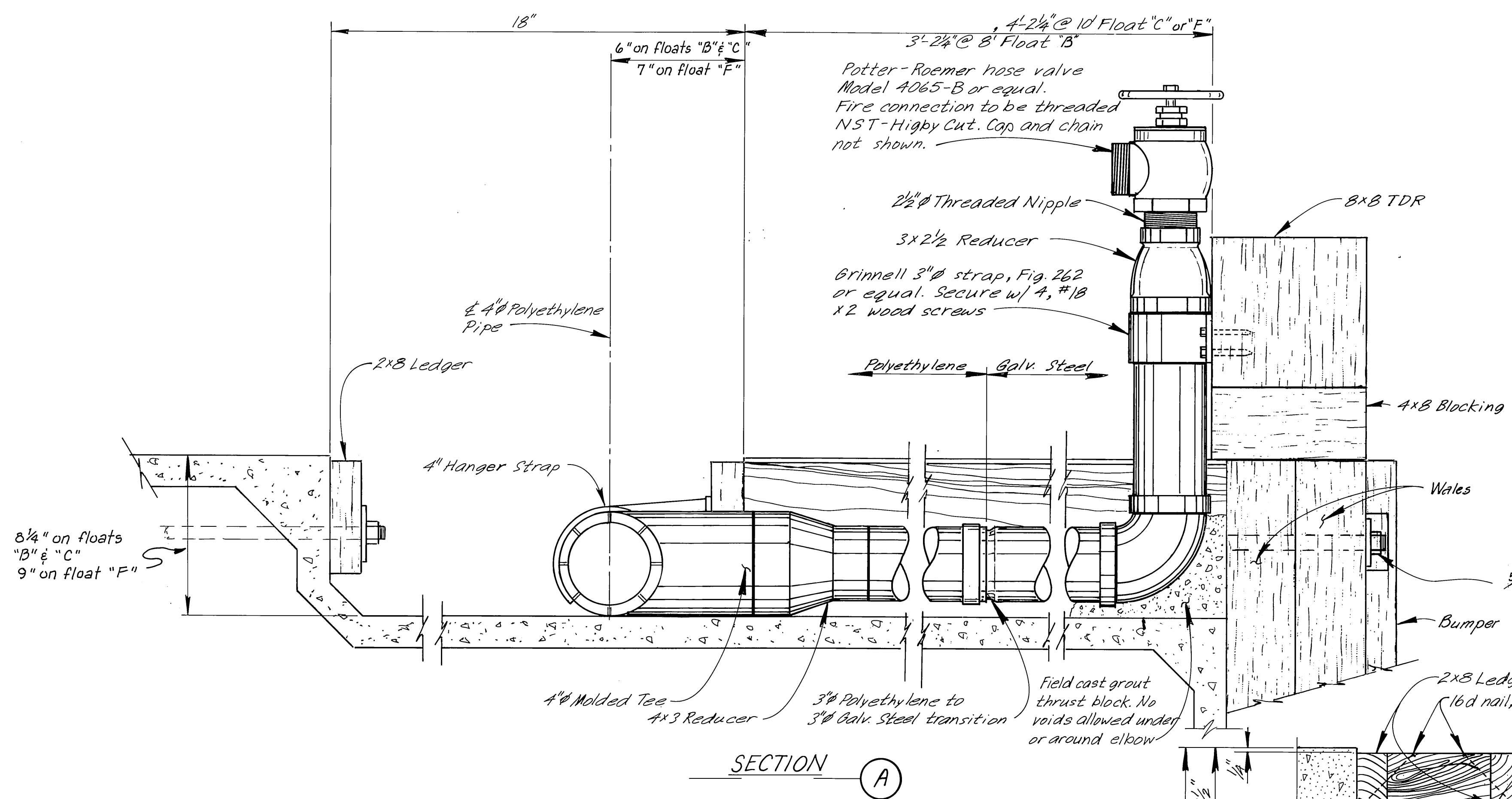
NOTE: Blocking will be required every 4'-0" under pipe at hanger locations on Float "F".



TYPICAL FINGER END DETAIL
 $\frac{3}{4}" = 1'-0"$

DCW 1-22-87

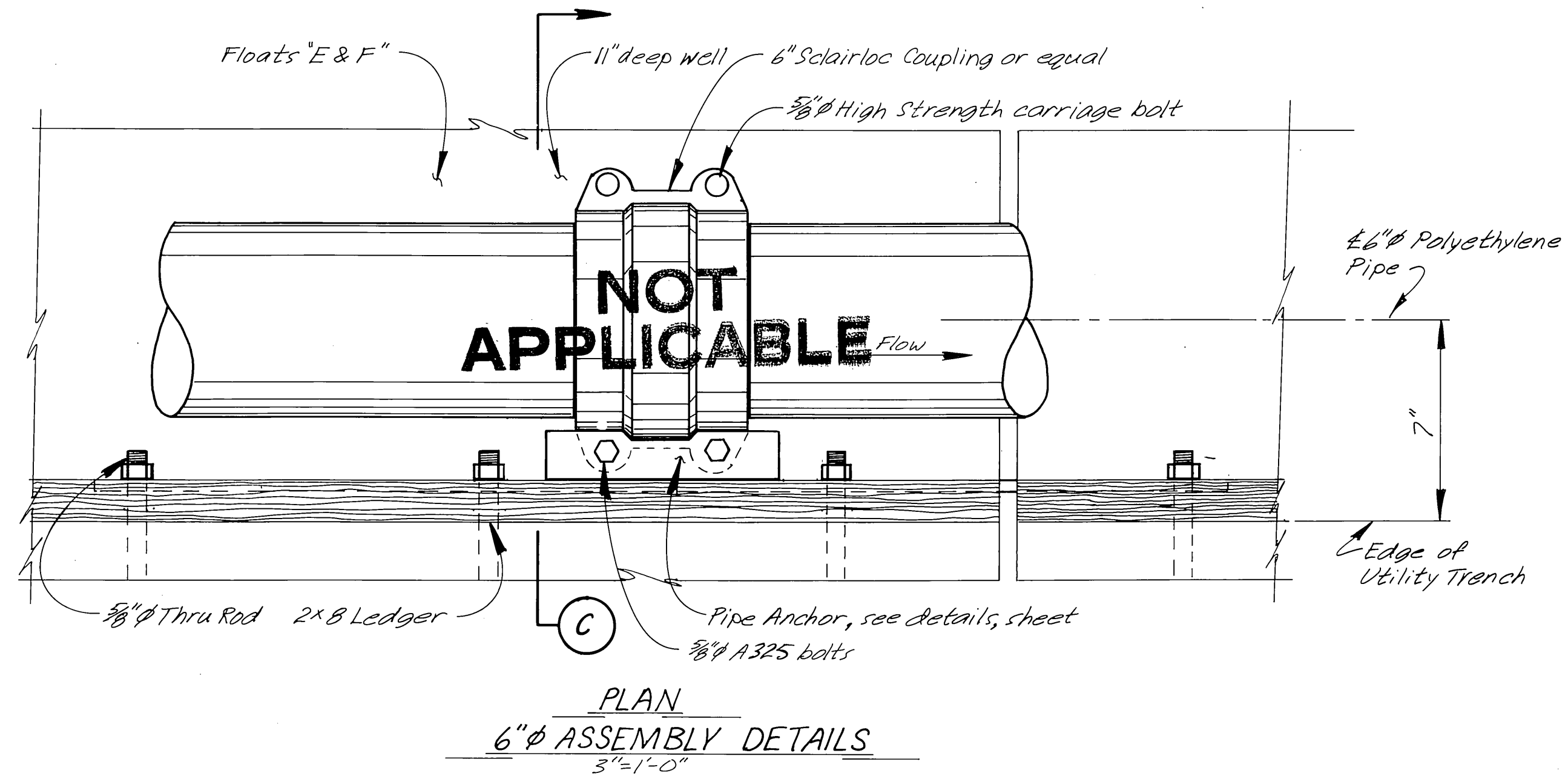
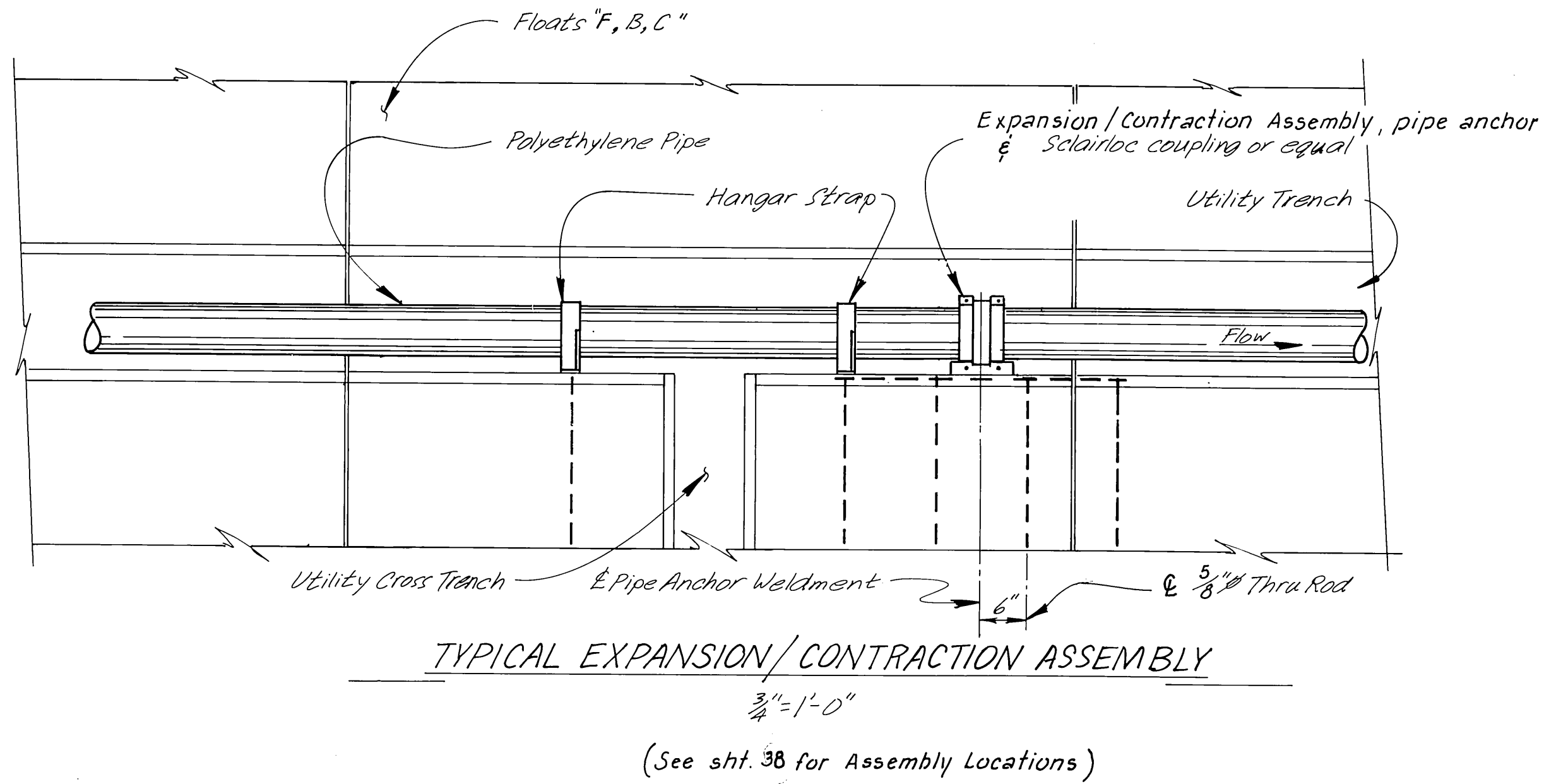
STAMP 		DO NOT SCALE THIS DRAWING - USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES PETERSBURG ALASKA DRY FIRE LINE SERVICE DETAILS	
DESIGNED <u>RAM</u> PROJECT NUMBER <u>K-78190</u>	CHECKED _____ SHEET <u>39</u> OF <u>55</u>	DRAWN <u>BM</u> DATE <u>3/83</u>	DATE <u>3/83</u>



Note: On float "F" Thrust Strap is installed on top of the Hanger Strap and the end must be field trimmed to fit.

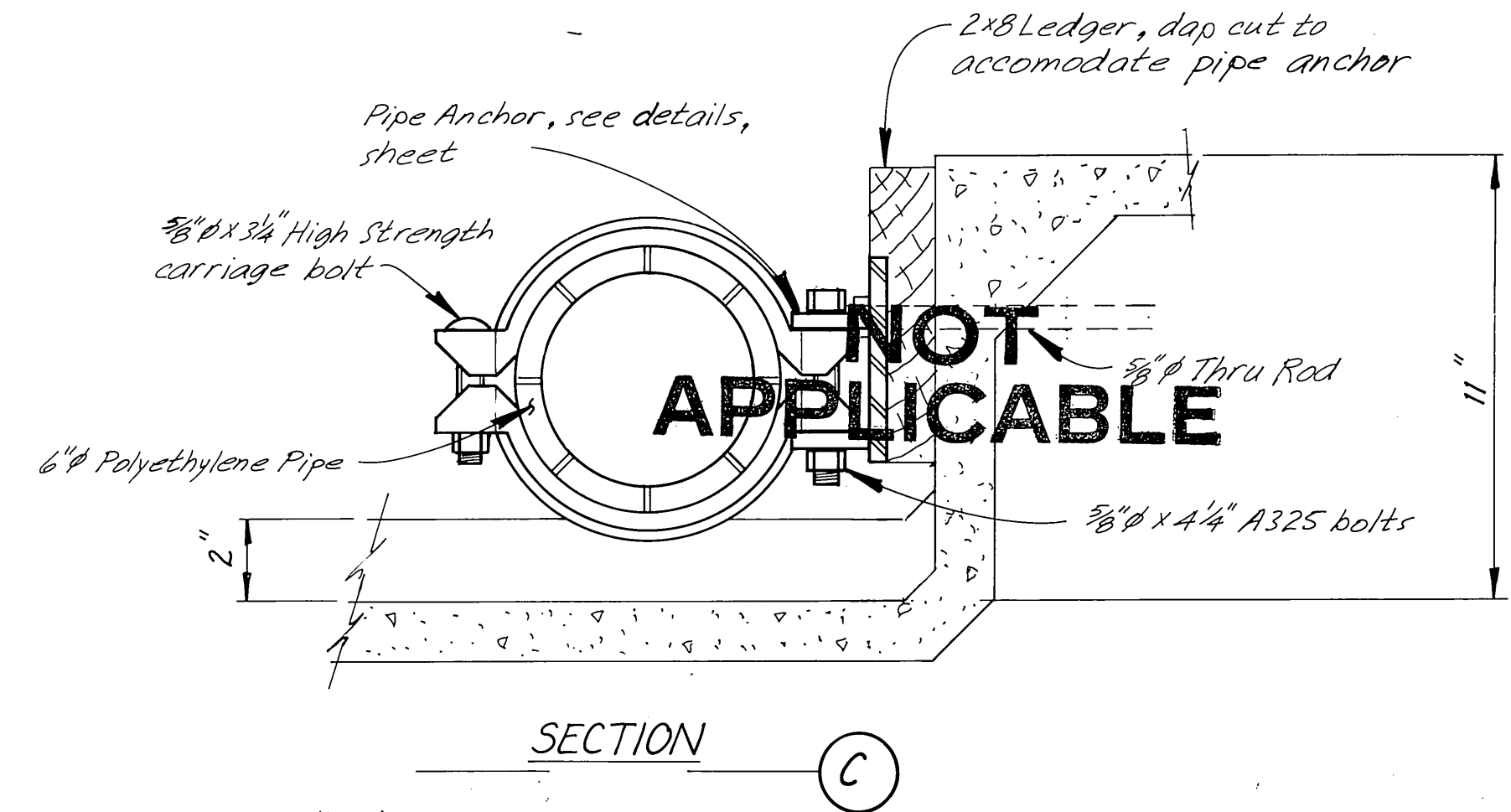
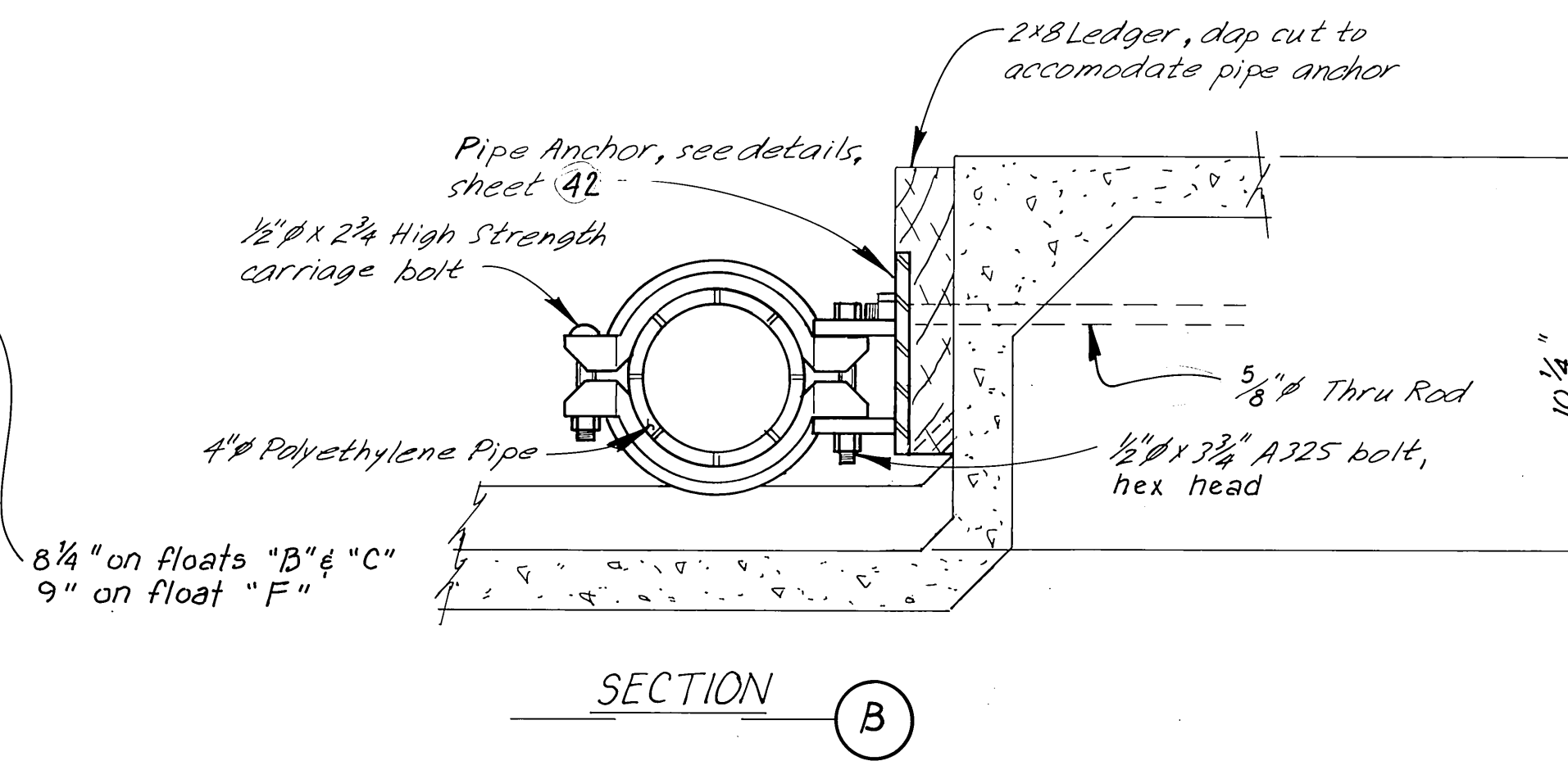
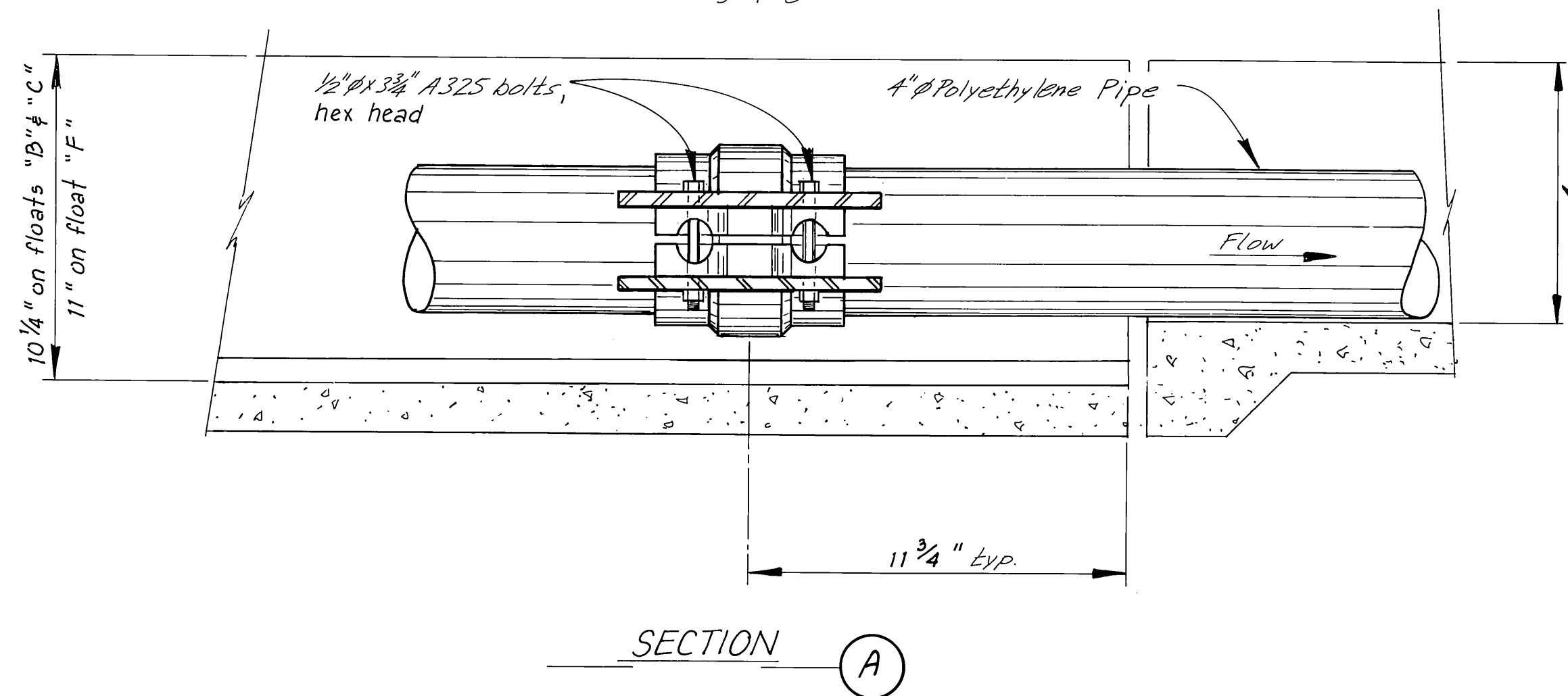
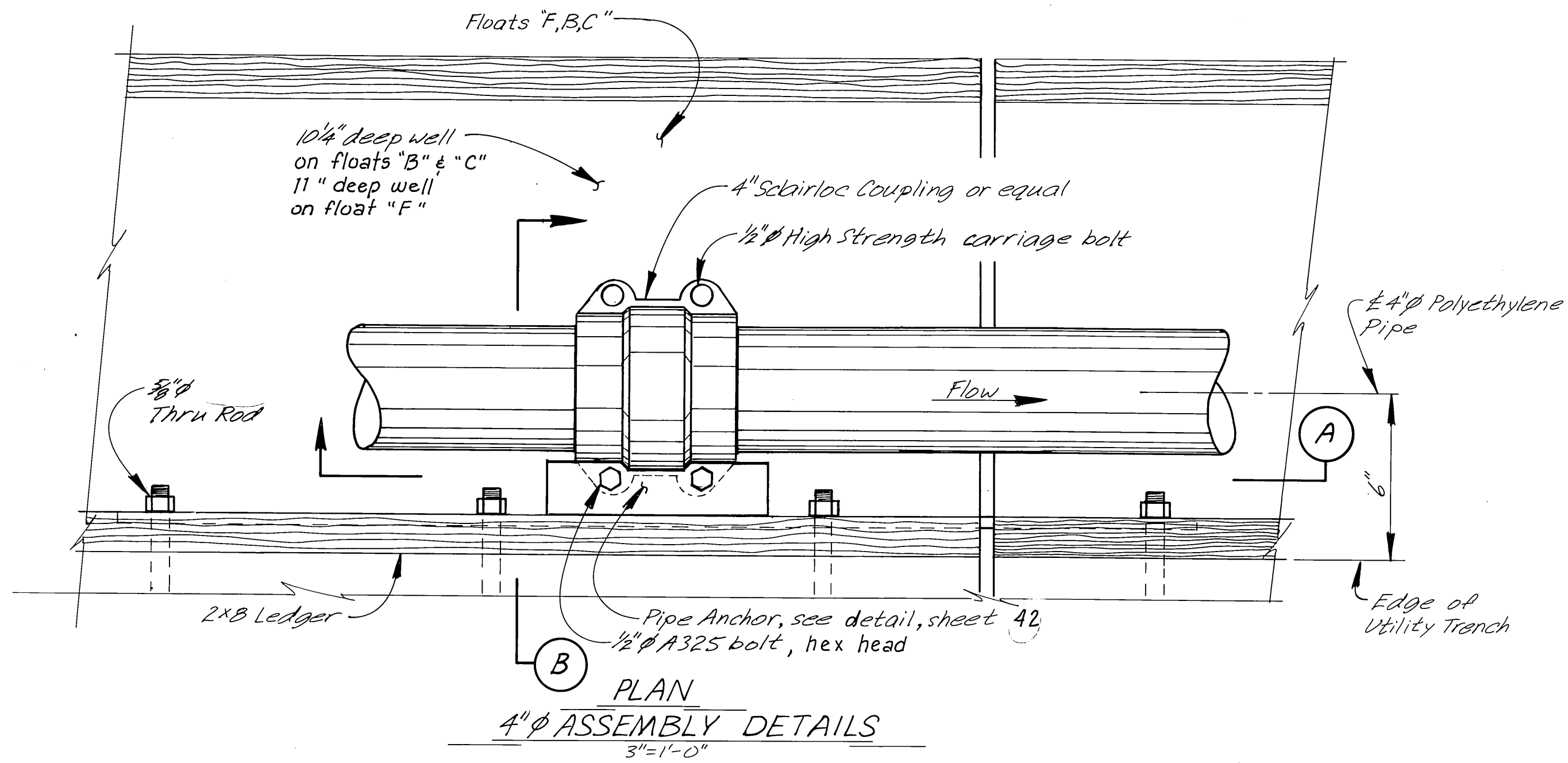
Note: 4" molded Stub End may require reaming to insure proper clearance for butterfly movement between opened and closed positions. Contractor and/or supplier shall verify.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg, Alaska	
		HYDRANT & VALVE DETAILS	
SCALE 3"=1'-0"	SURVEYED	APPROVED	
DESIGNED JAL/IRM	DRAWN JAL/ILW		
CHECKED	DATE 3/84		
PROJECT NUMBER K78190	SHEET 40 OF 55		

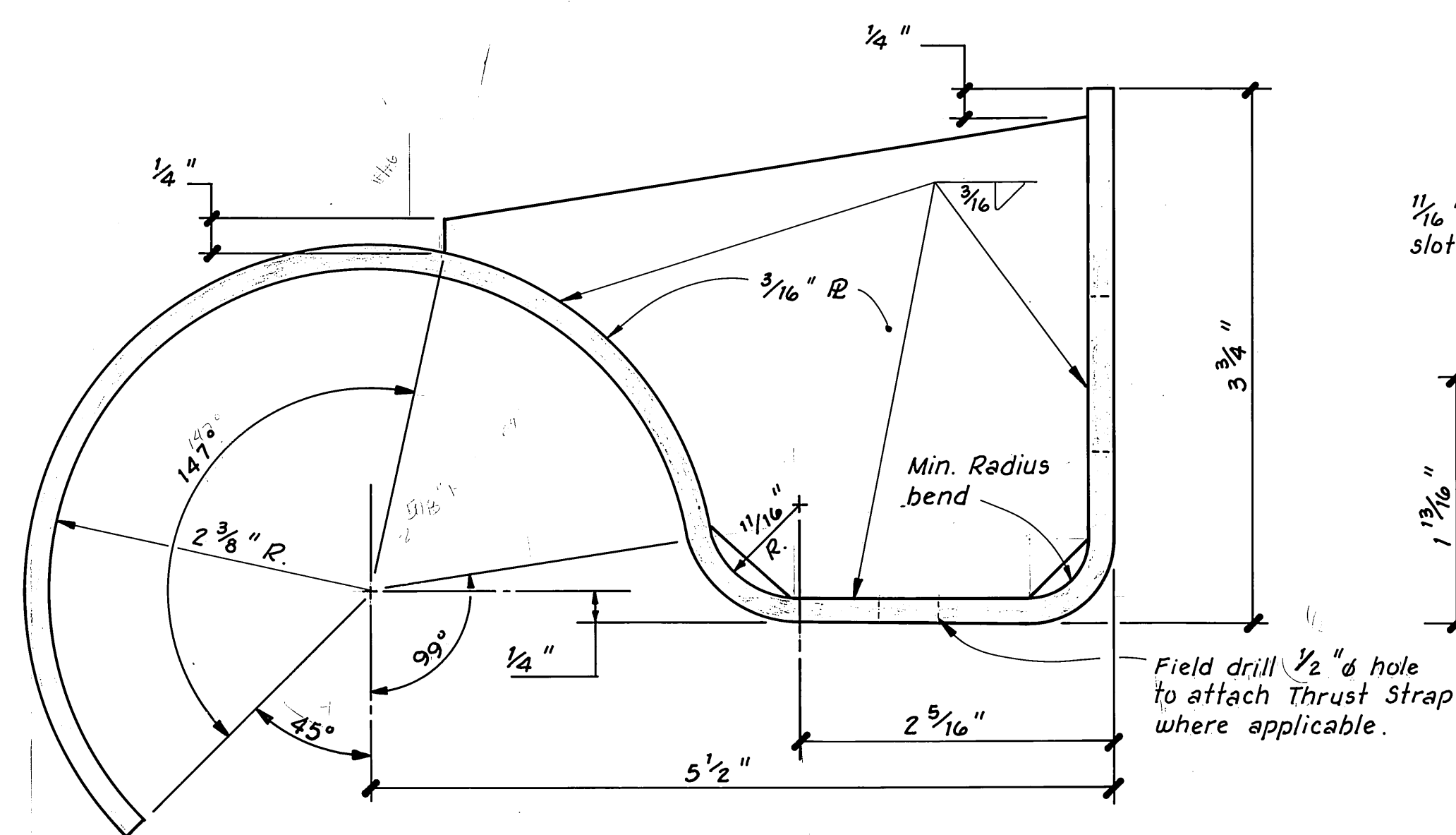


Notes:

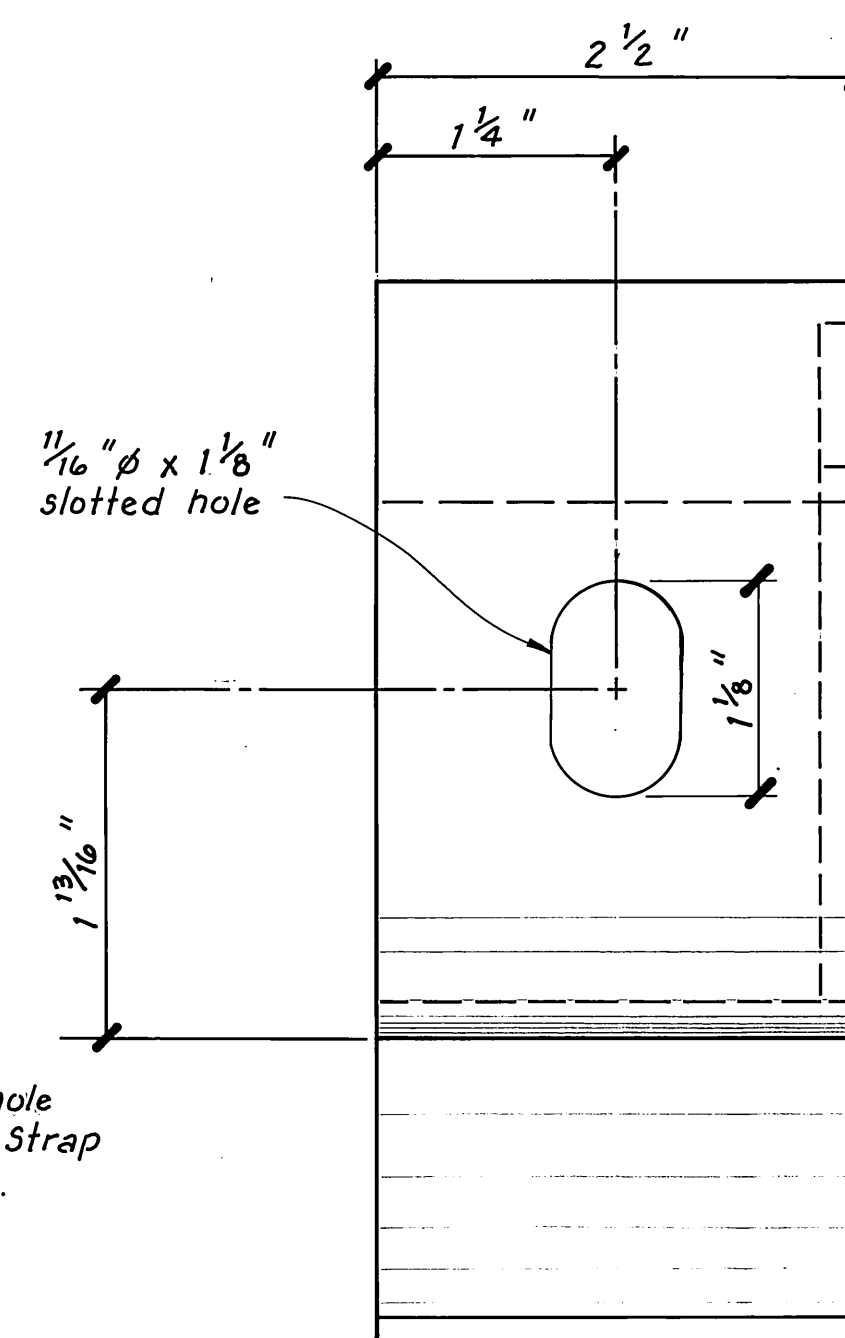
1. Prior to fit up of coupling into pipe anchor the coupling shall be adequately seated on the pipe by tightening of the coupling bolts. Once the seating has been completed, the mounting bolts can be removed and the connection made as detailed.
2. 1/2" hex head mounting bolts shall be tightened to a degree adequate to insure uniform coupling tightness around pipe.



STAMP		DO NOT SCALE THIS DRAWING — USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg Alaska	
EXPANSION/CONTRACTION ASSEMBLIES			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED JAL/ram	DRAWN JAL/LVB		
CHECKED JS	DATE 3/84		
PROJECT NUMBER K78190		SHEET 41 OF 55	



ELEVATION



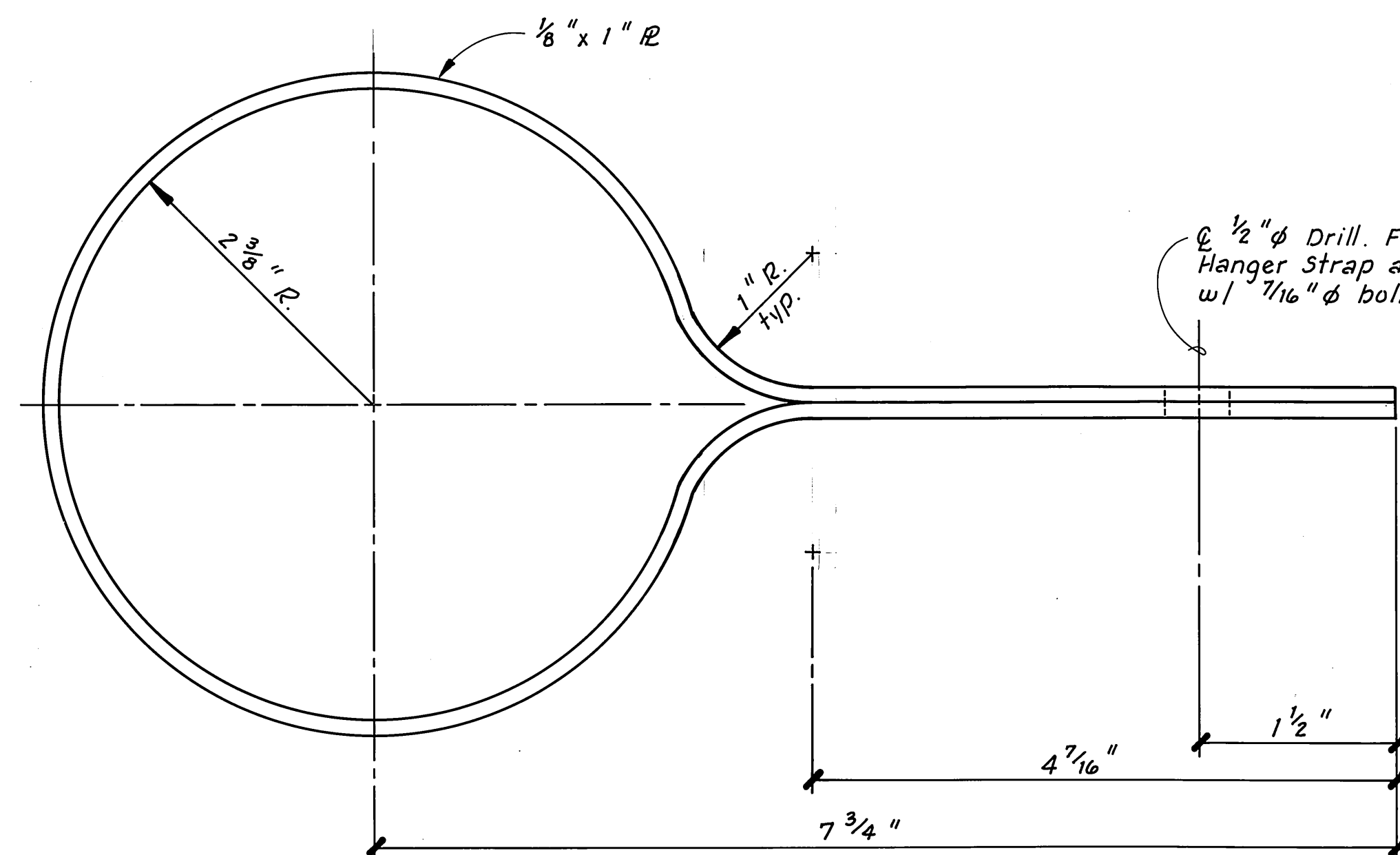
PLAN

4" Ø HANGER STRAP

12" = 1'-0"

(FOR FLOAT F ONLY)

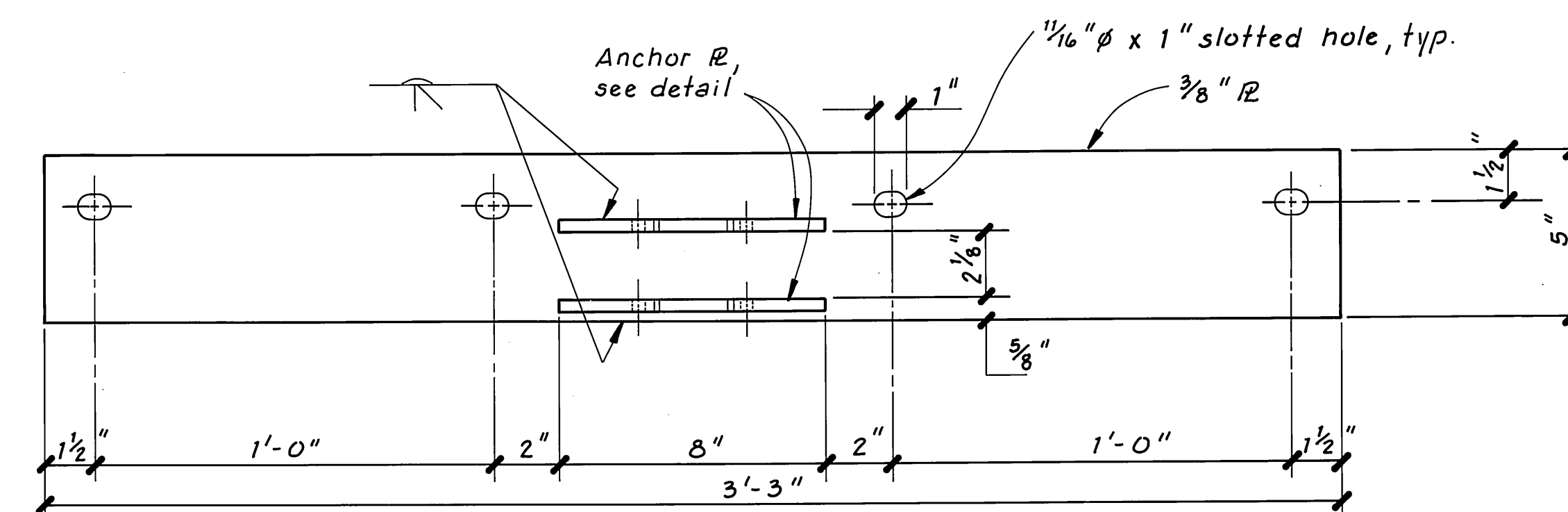
Note: Pipe in contact with steel straps shall be wrapped with 1/8" thick x 3" wide rubber sheathing. Extend beyond contact surface 1" in either direction.



THRUST STRAP

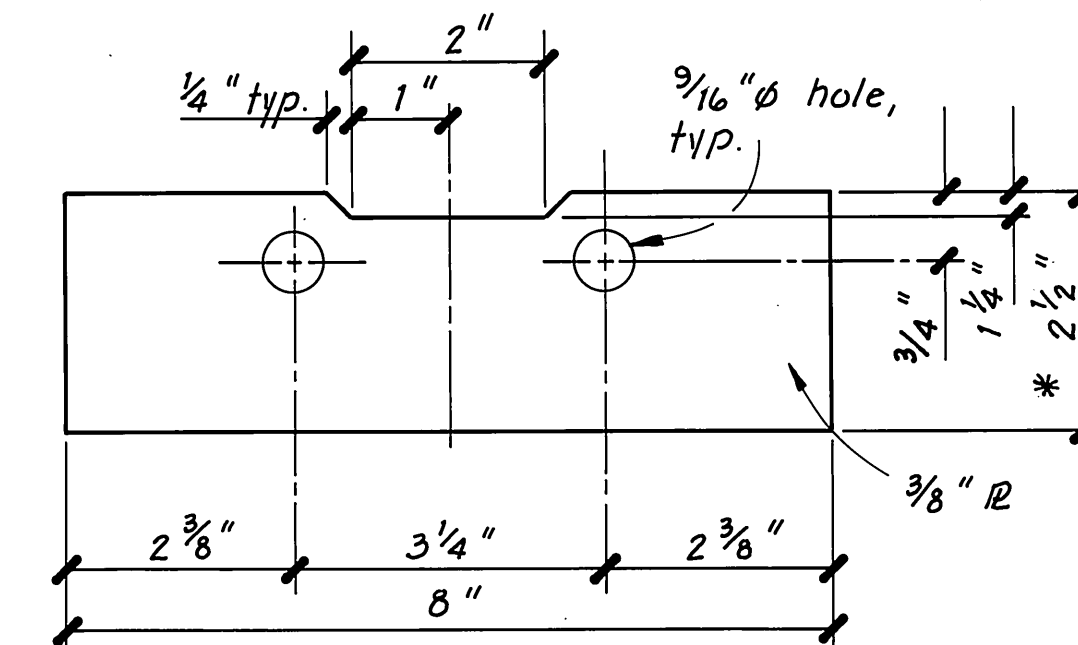
12" = 1'-0"

Note: On float "F" the end of the Thrust Strap must be field trimmed.



PIPE ANCHOR

3" = 1'-0"

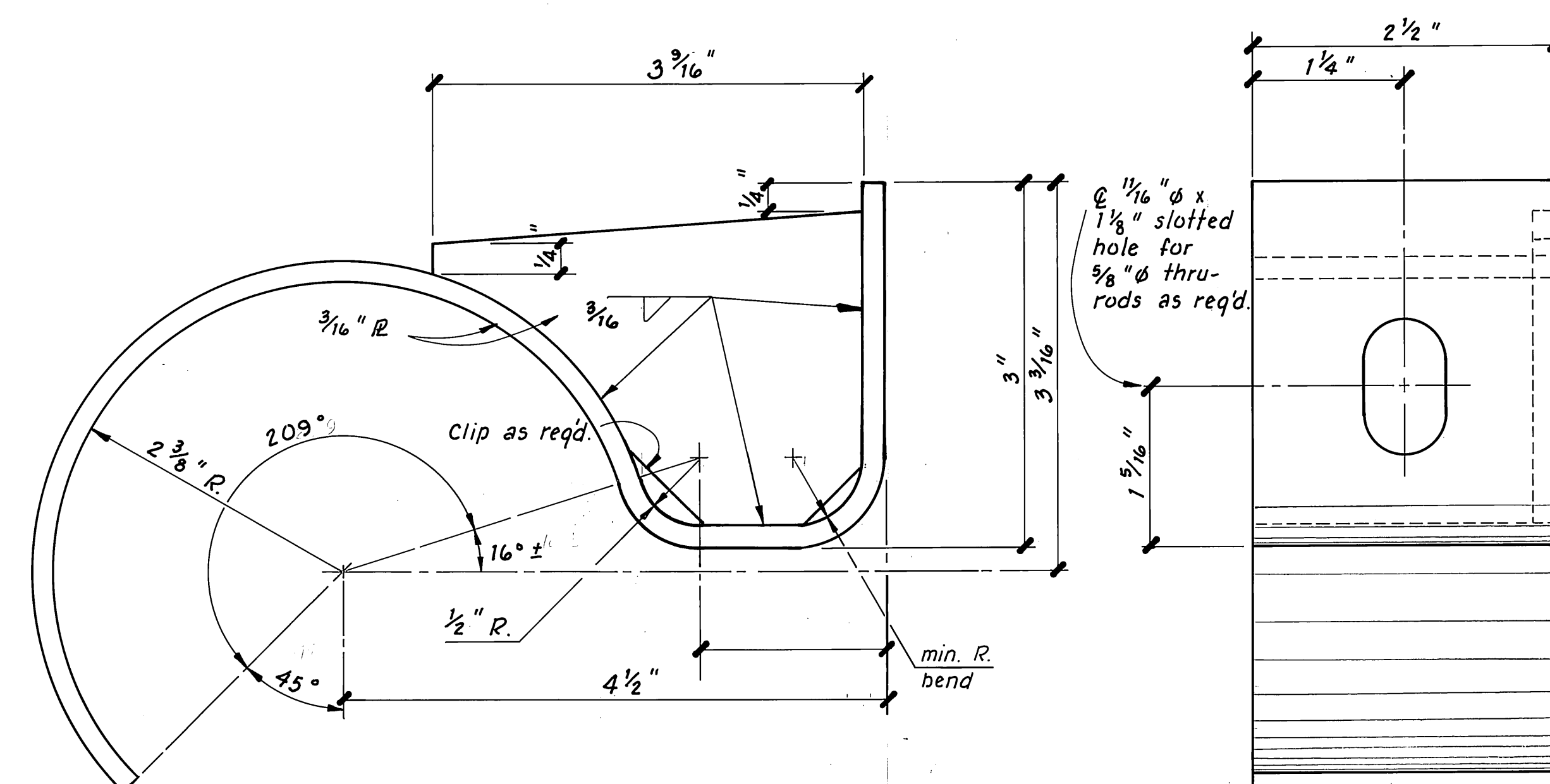


ANCHOR R

6" = 1'-0"

* 2 1/2" for pipe anchors on Float B & C.
3 1/2" for pipe anchors on Float F.

NOTE: Dimensions shown are approximate. Supplier of couplings shall verify dimensions.



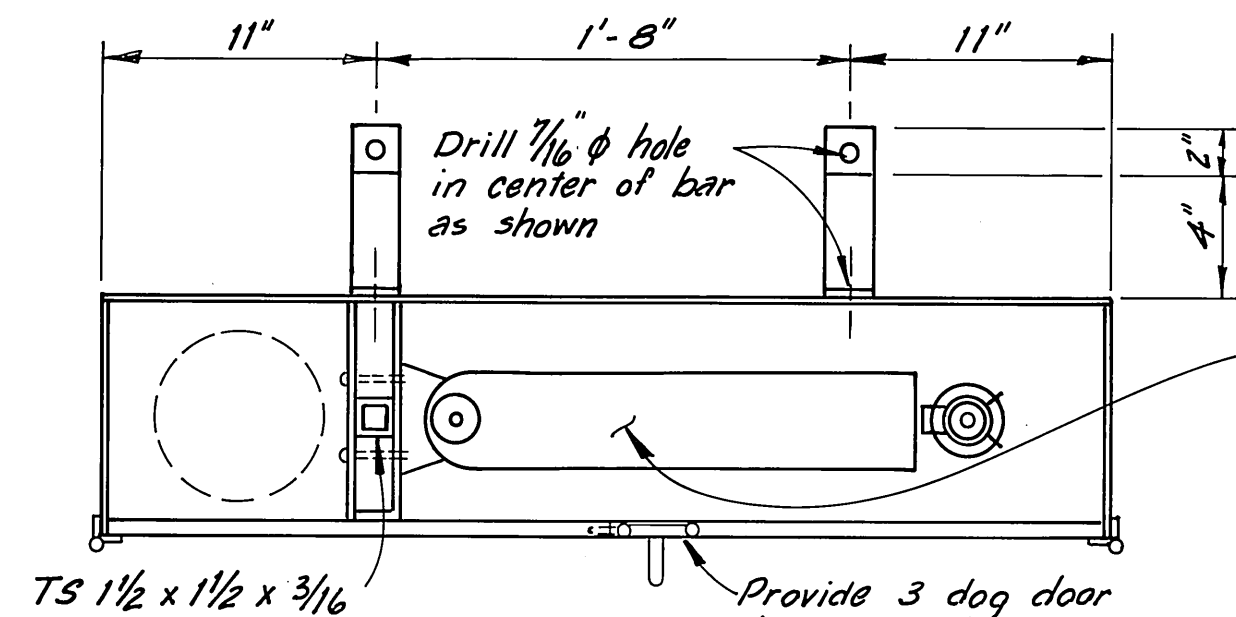
4" HANGER STRAP

12" = 1'-0"

(FOR FLOATS B & C ONLY)

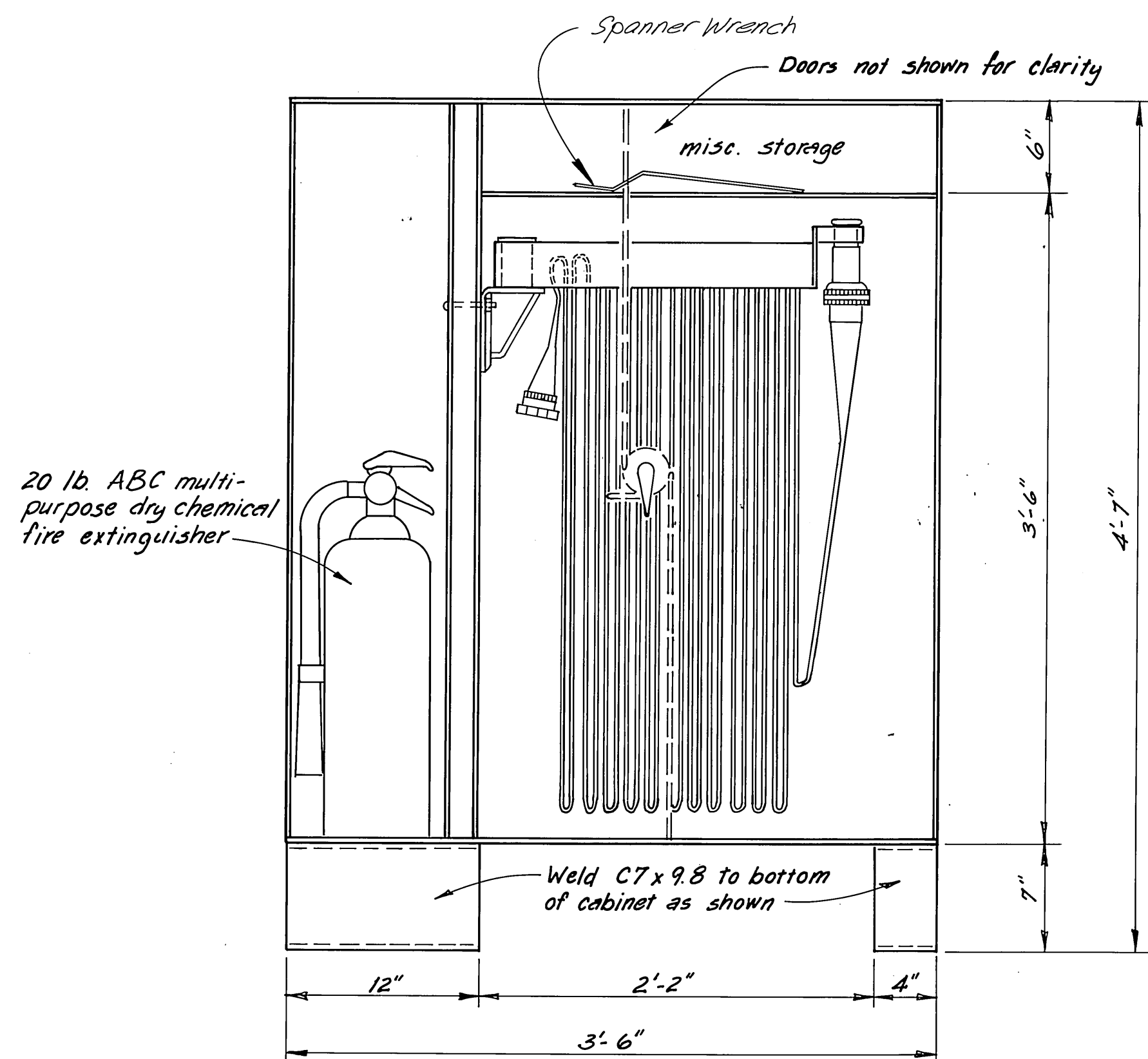
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg	Alaska
		DRY FIRE LINE MISC. DETAILS	
DESIGNED	CHECKED	DRAWN	DATE
PROJECT NUMBER	K-78190	SHEET	42 OF 55

DCW 1-22-87

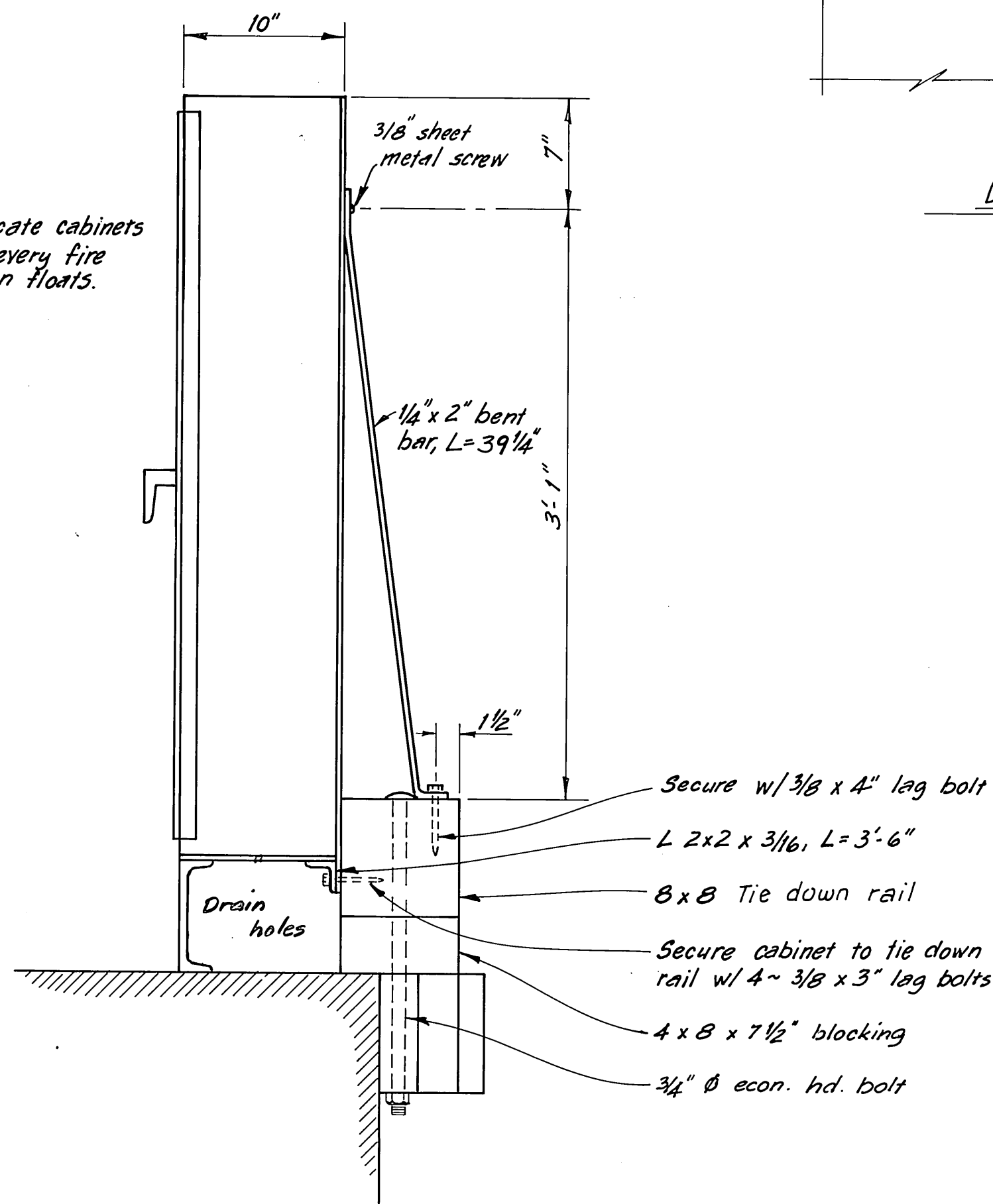


Hose rack w/ wall bracket and 1 1/2" ϕ x 150' single jacket linen hose w/ 1 1/2" fog nozzle.

Cabinet to be constructed of 12 ga. galv. sheet metal adequately reinforced at corners & edges in conformance with established sheet metal fabricating practice. Provide weather stripping on all door to cabinet contact surfaces.

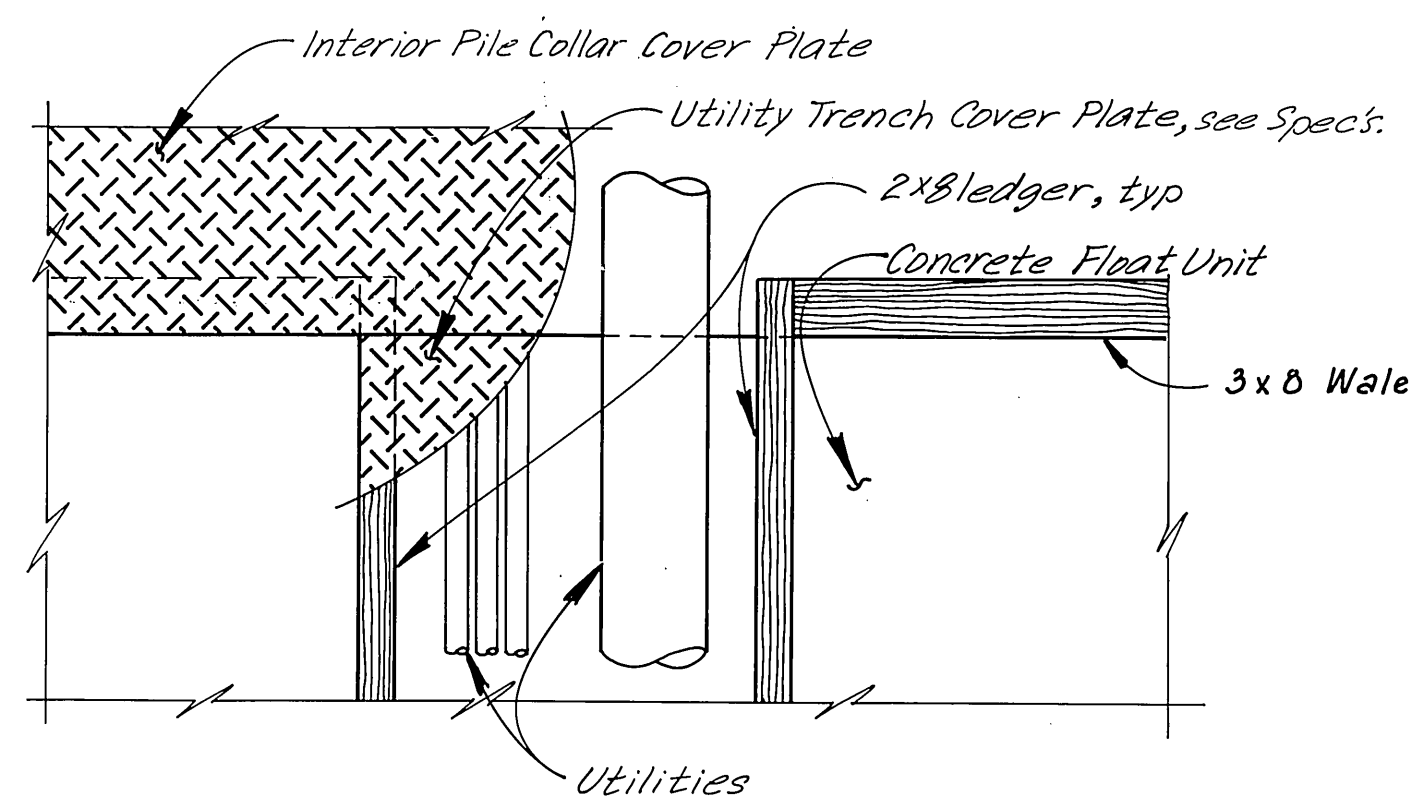


Note: Locate cabinets opposite every fire hydrant on floats.



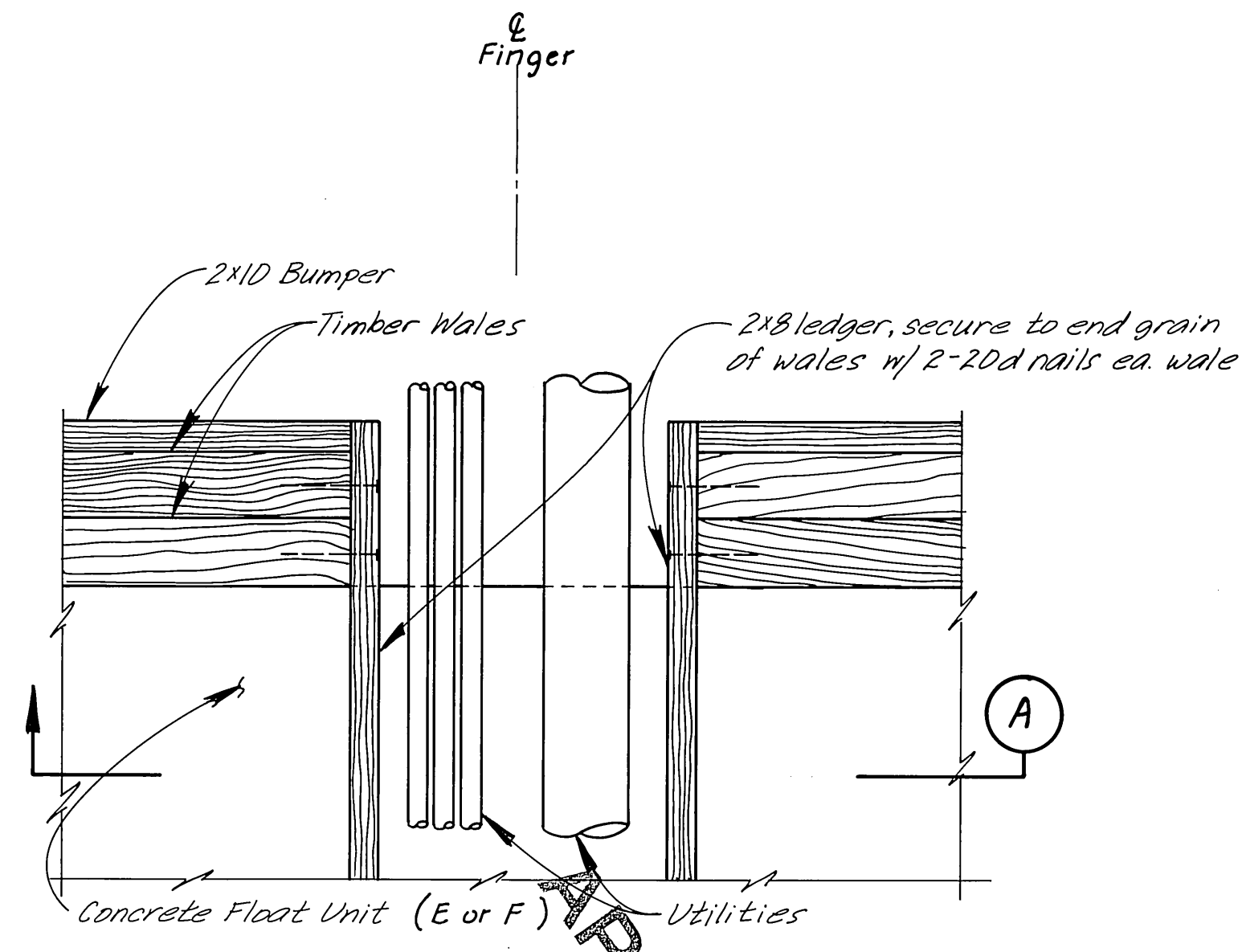
HOSE & EXTINGUISHER CABINET

1 1/2" = 1'-0"



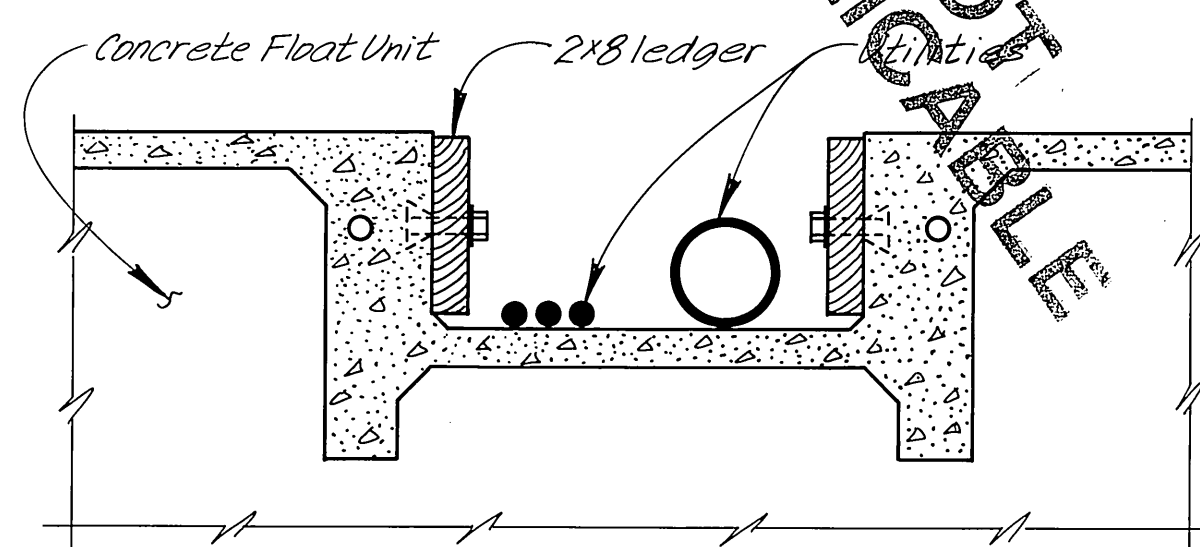
DETAIL @ INTERIOR PILE COLLAR

1 1/2" = 1'-0"



UTILITY DETAILS @ TIMBER WALES

1 1/2" = 1'-0"

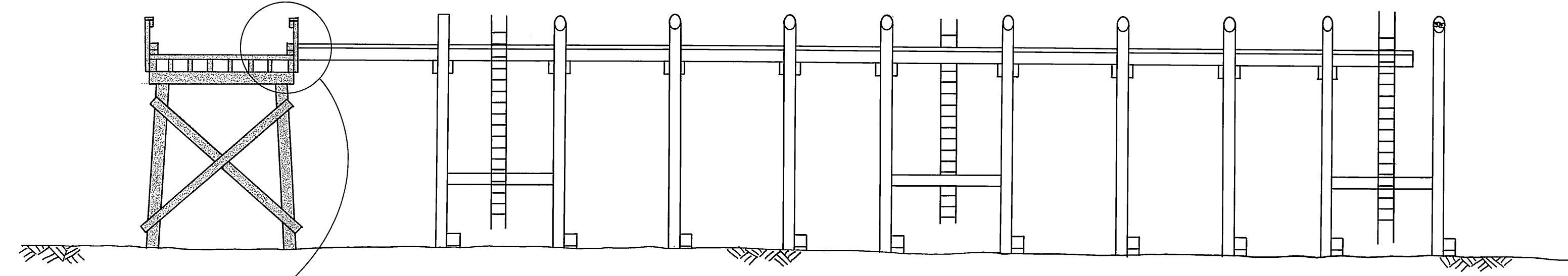


SECTION

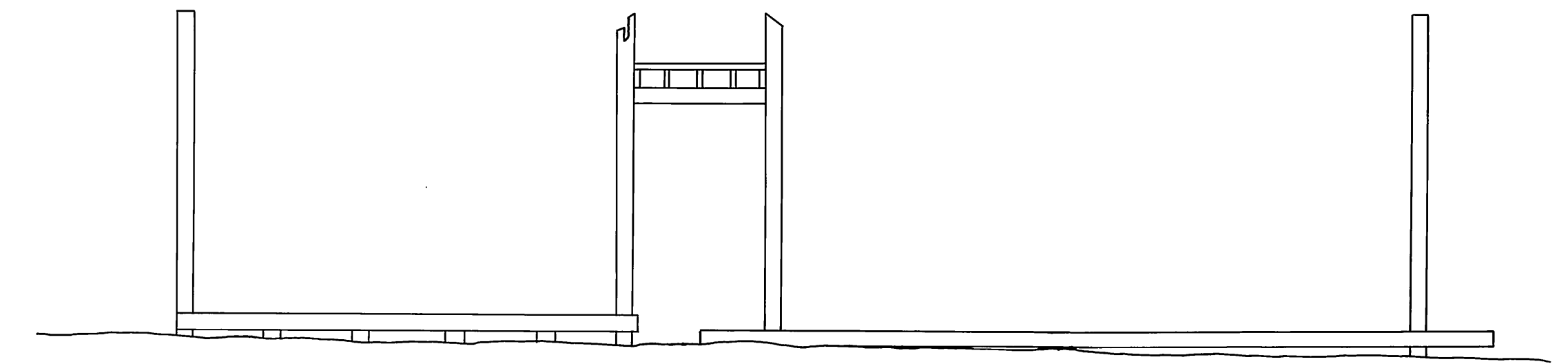
1 1/2" = 1'-0"

NOT APPLICABLE

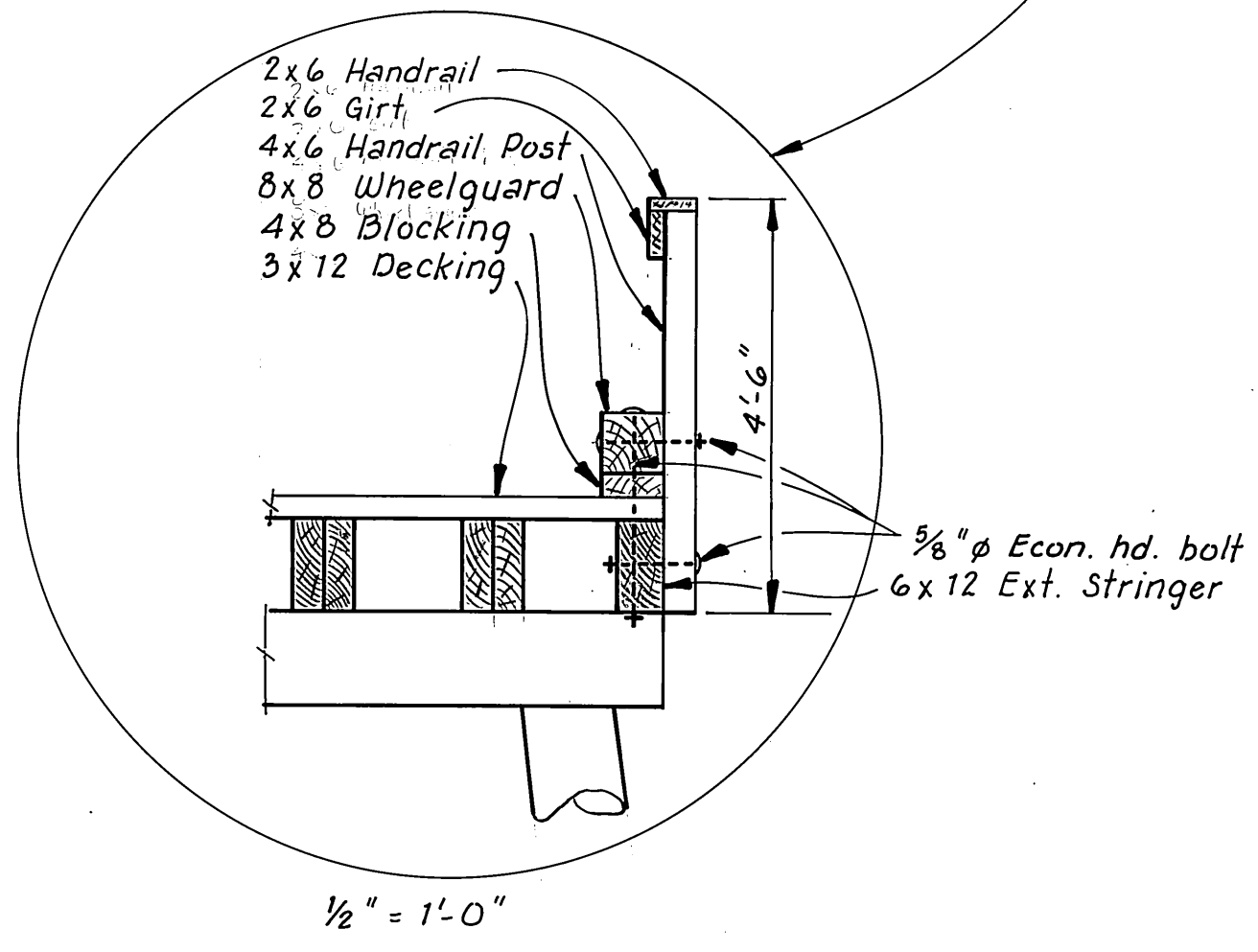
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg	Alaska
		UTILITY DETAILS FIRE EXTINGUISHER CABINET	
SCALE: As Noted	SURVEYED: _____	APPROVED: _____	
DESIGNED: JAL/RAM	DRAWN: DB	_____	
CHECKED: RAM	DATE: 4-83	_____	
PROJECT NUMBER: K78190		SHEET 43 OF 55	



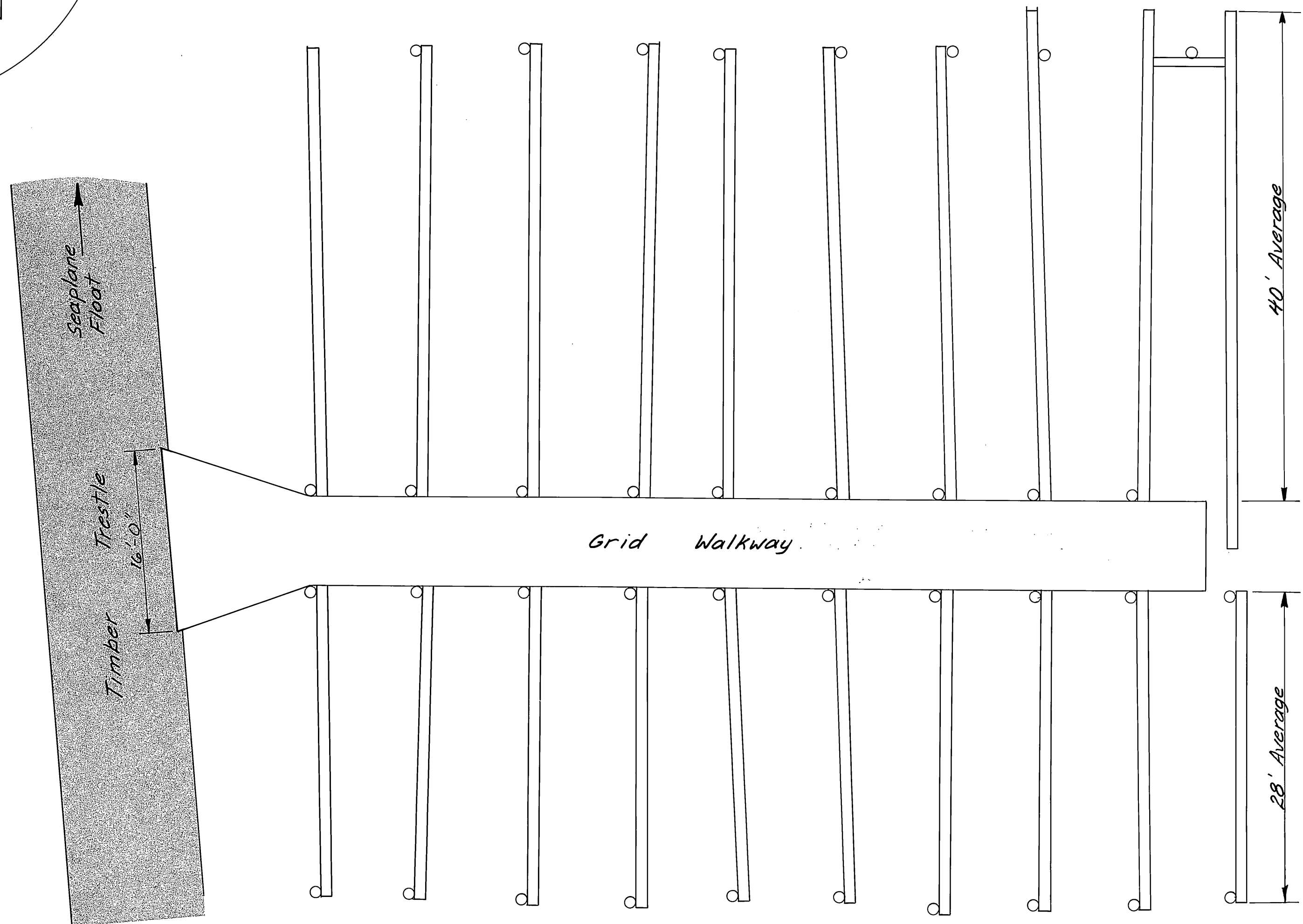
ELEVATION



CROSS SECTION



1/2" = 1'-0"



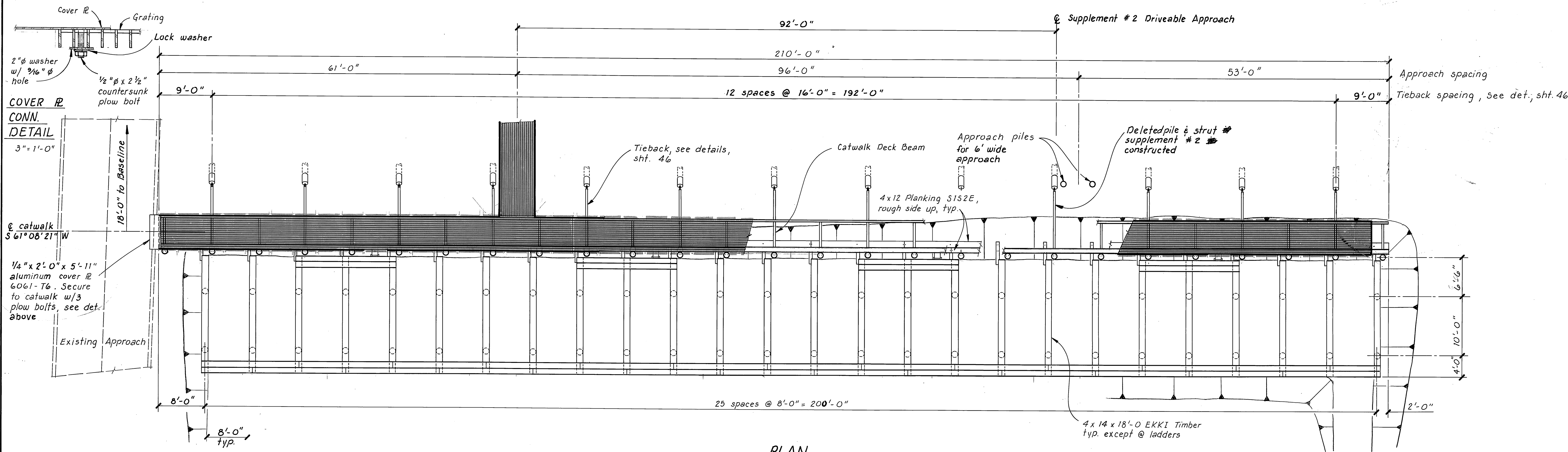
PLAN

- WORK SUMMARY**
- Removal & disposal of existing grid which consists of:
10-12"x12" Timber Pile Caps, Average Length = 40'
10-12"x12" Timber Pile Caps, Average Length = 23'
Approx. 784 s.f. of Timber Walkway
Pull Approx. 220 Timber Piles - Includes Fender Piles, Piles Under Grid Caps, & Piles that Support Walkway.
 - Disconnect & remove electrical & water service to grid.
 - Reconstruct wheel guard & handrail to close the opening on the main timber trestle.

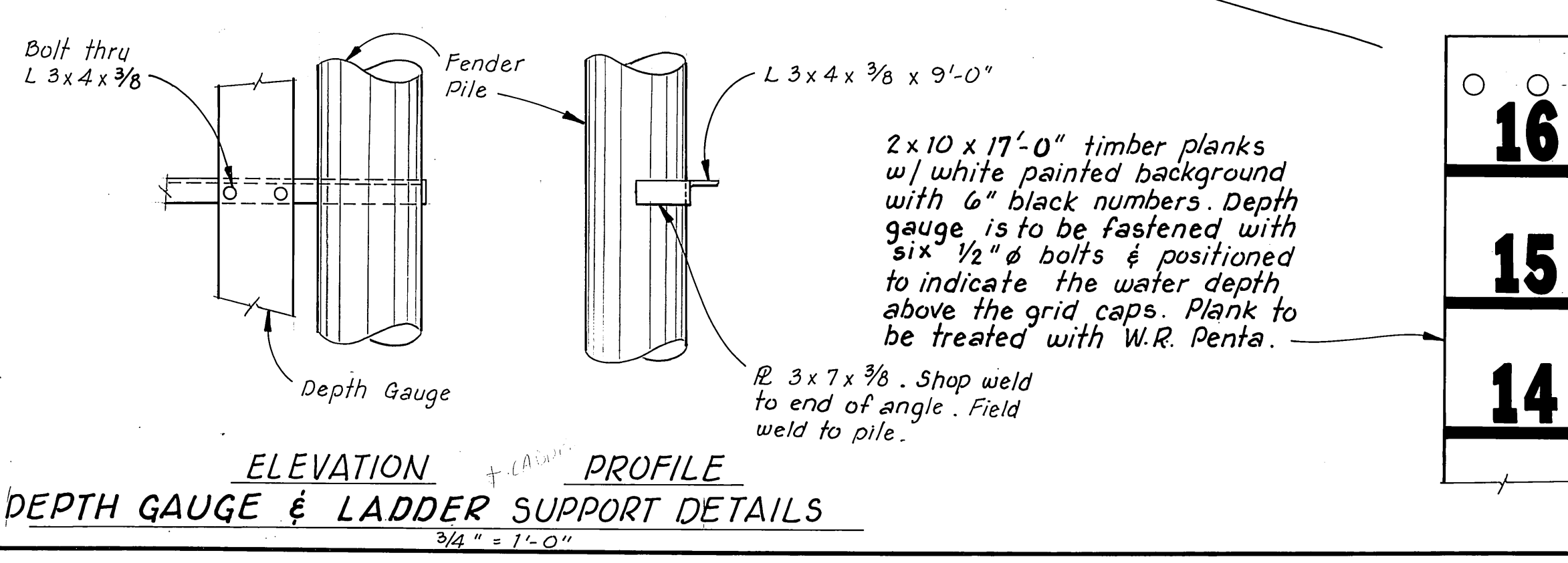
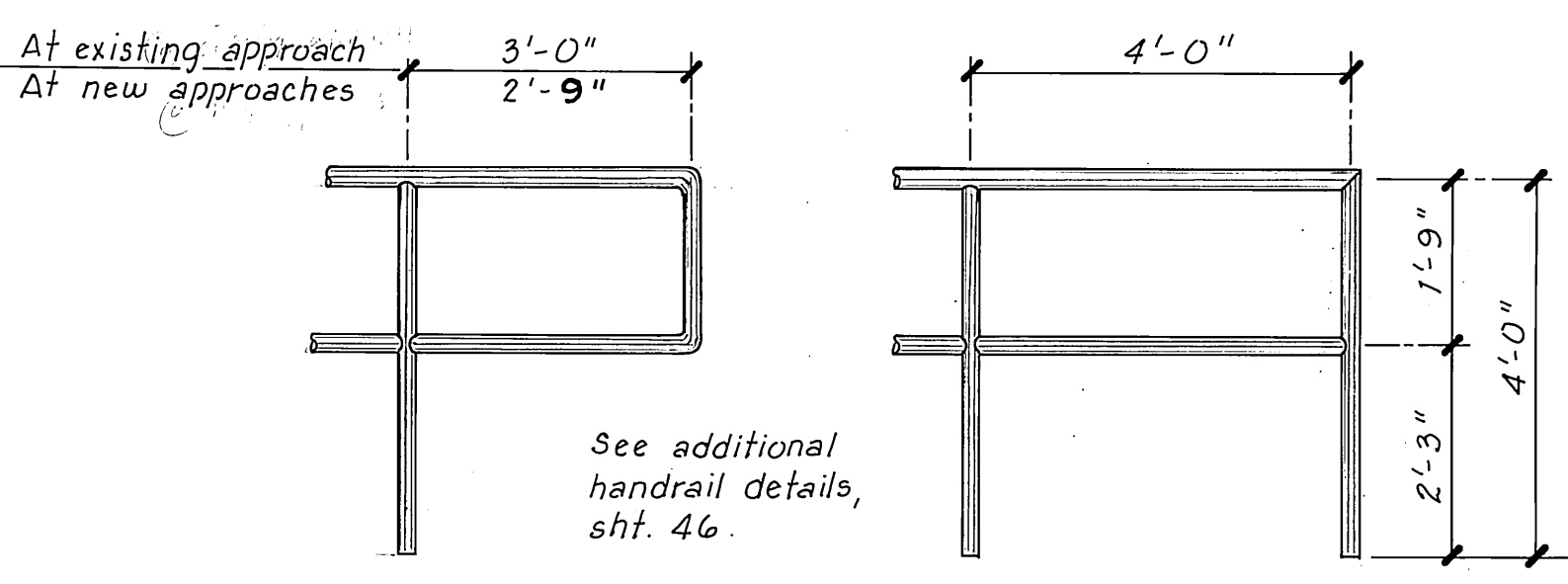
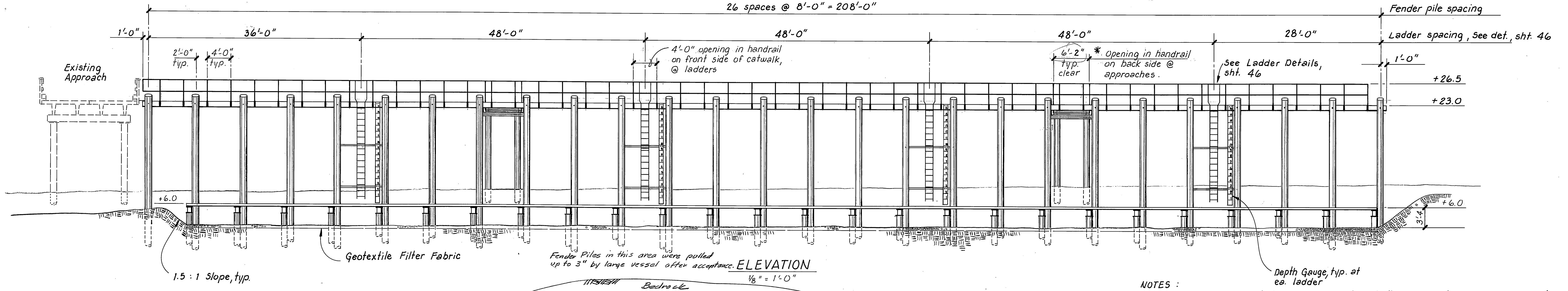
NOTE: Structures to remain shown shaded.

DCW 1-22-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		PETERSBURG ALASKA	
		GRID REMOVED	
SCALE 1/8" = 1'-0"	SURVEYED	APPROVED	
DESIGNED RAM	DRAWN MEB	DATE 2/84	
CHECKED	DATE		
PROJECT NUMBER 1-78190	SHEET 44 OF 55		



* For handrail spacing in approach area for Supplement #2, see sht. 52



NOTES:
 Steel, Grid and Supplement #2 Approach, piles shall be driven to 30T bearing (est. penetration is 30').
 Grid batter piles shall be driven at a 45° batter to 30T bearing (est. pen. is 30').
 Timber approach piles shall be driven to 8T bearing (est. penetration is 15').
 Penetration varied from 12' to 30'.
 See Grid Cross Section on sht. 46.

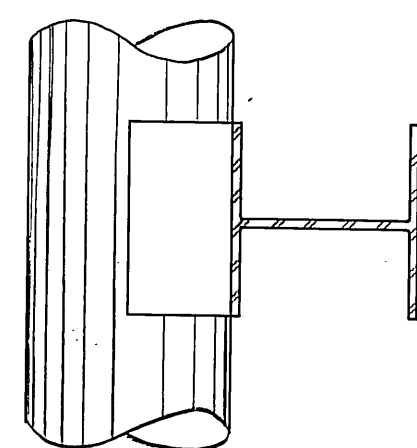
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
GRID LAYOUT			
DESIGNED <u>R.P.B.</u>	CHECKED _____	DRAWN <u>TS</u>	DATE <u>6-84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>45</u> OF <u>55</u>		

ELEVATION
HANDRAIL SOCKET DETAILS
 $1\frac{1}{2}" = 1'-0"$

12 $\frac{3}{4}$ " ϕ x $\frac{3}{8}$ " wall
steel pile 8' o.c.

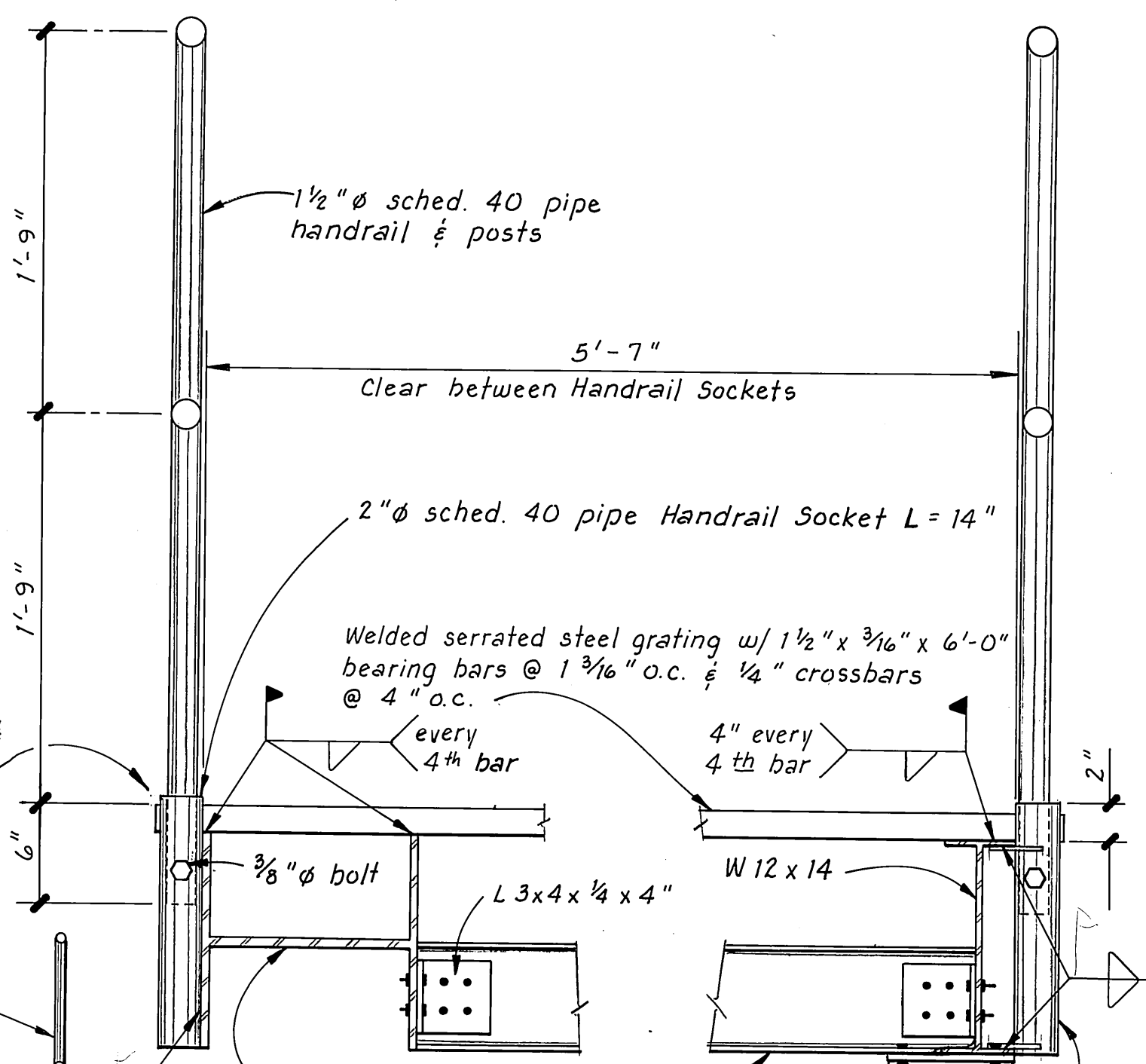
12" x 6" x 1/2" R, typ.

DETAIL "E"



NOTE: Socket shown
is for shore side of
catwalk only.

NOTE: Notch
grating @
Fender piles &
Handrail
sockets



Welded serrated steel grating w/ $1\frac{1}{2}" \times \frac{3}{16}"$ x
bearing bars @ $1\frac{3}{16}"$ o.c. & $\frac{1}{4}"$ crossbars
@ 4" o.c.

4th bar /

W 12 x 14

2

ar



4yp. —

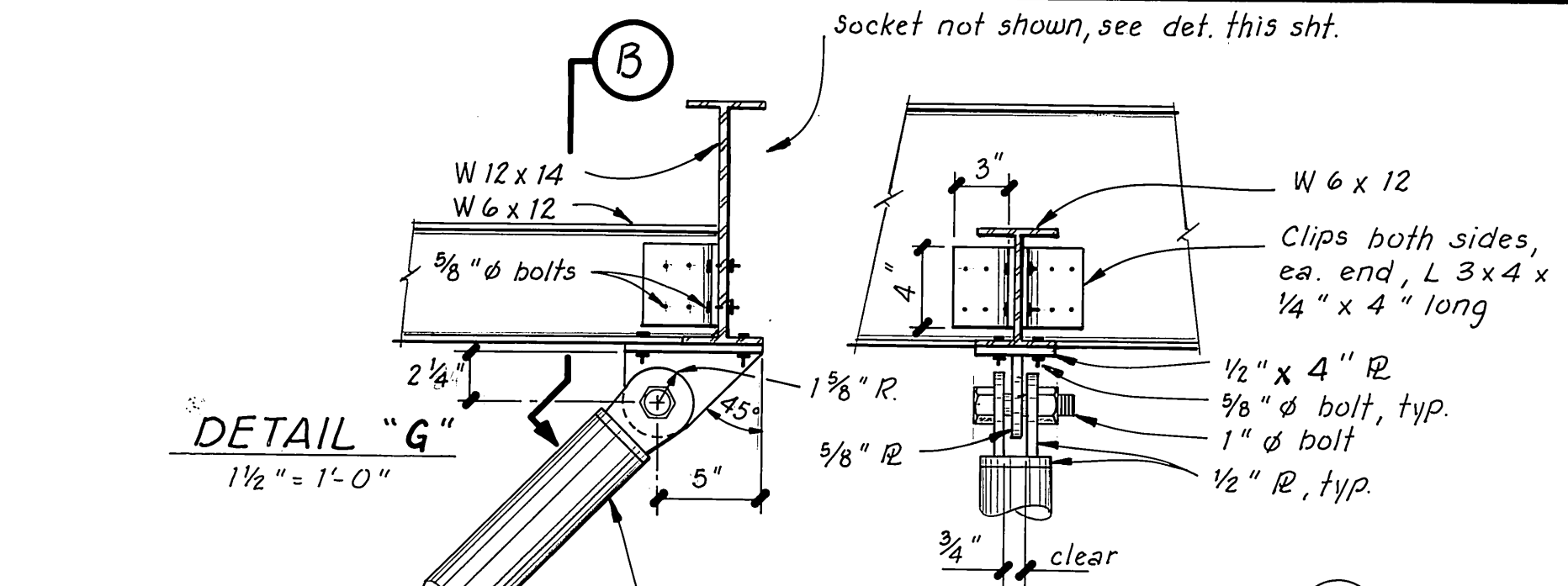
bolt

►

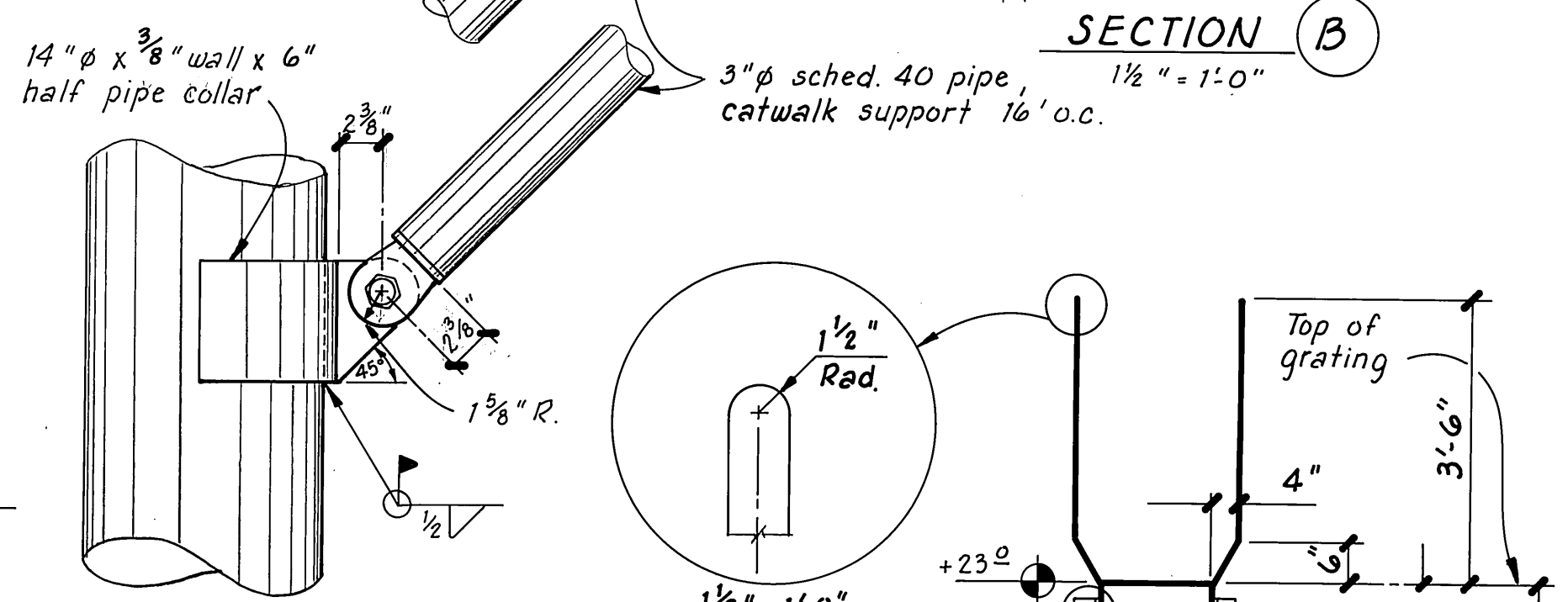


011

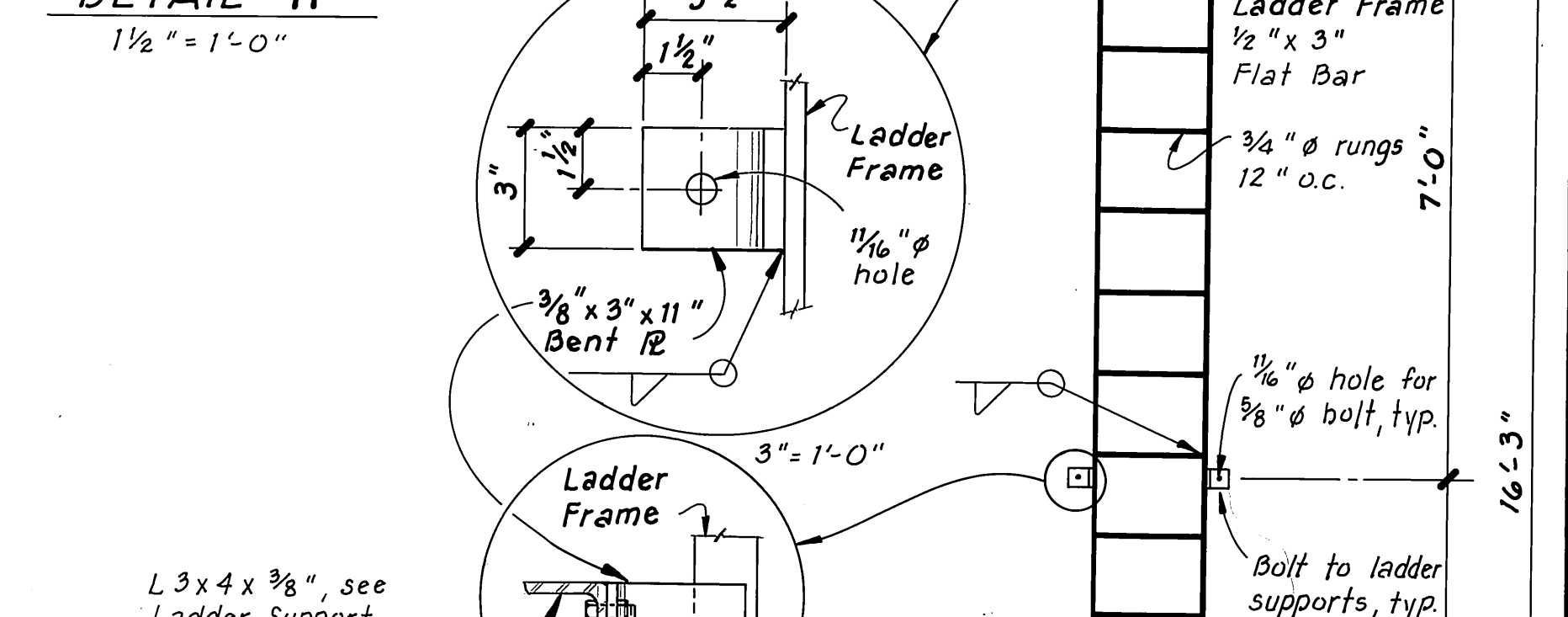
fit



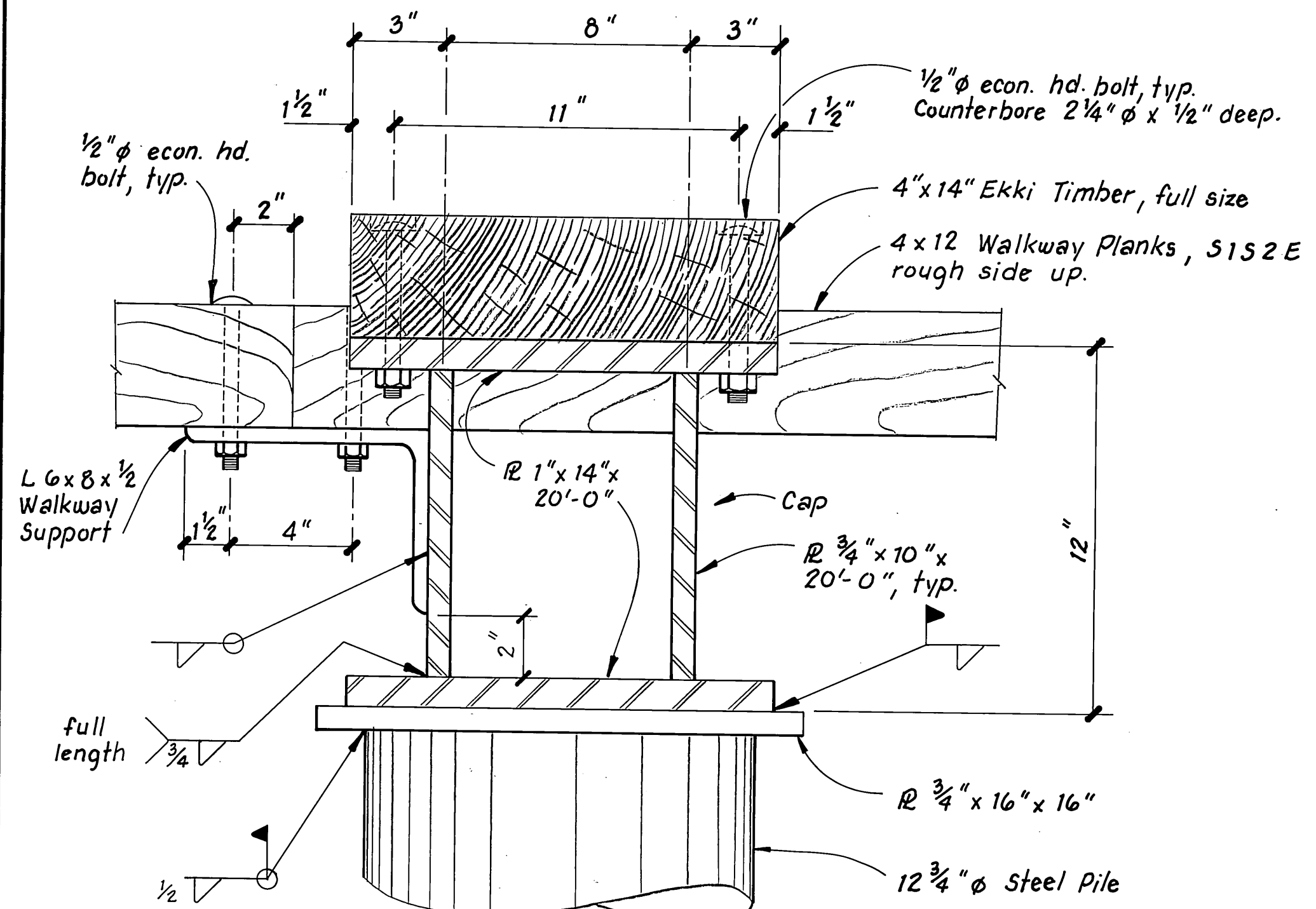
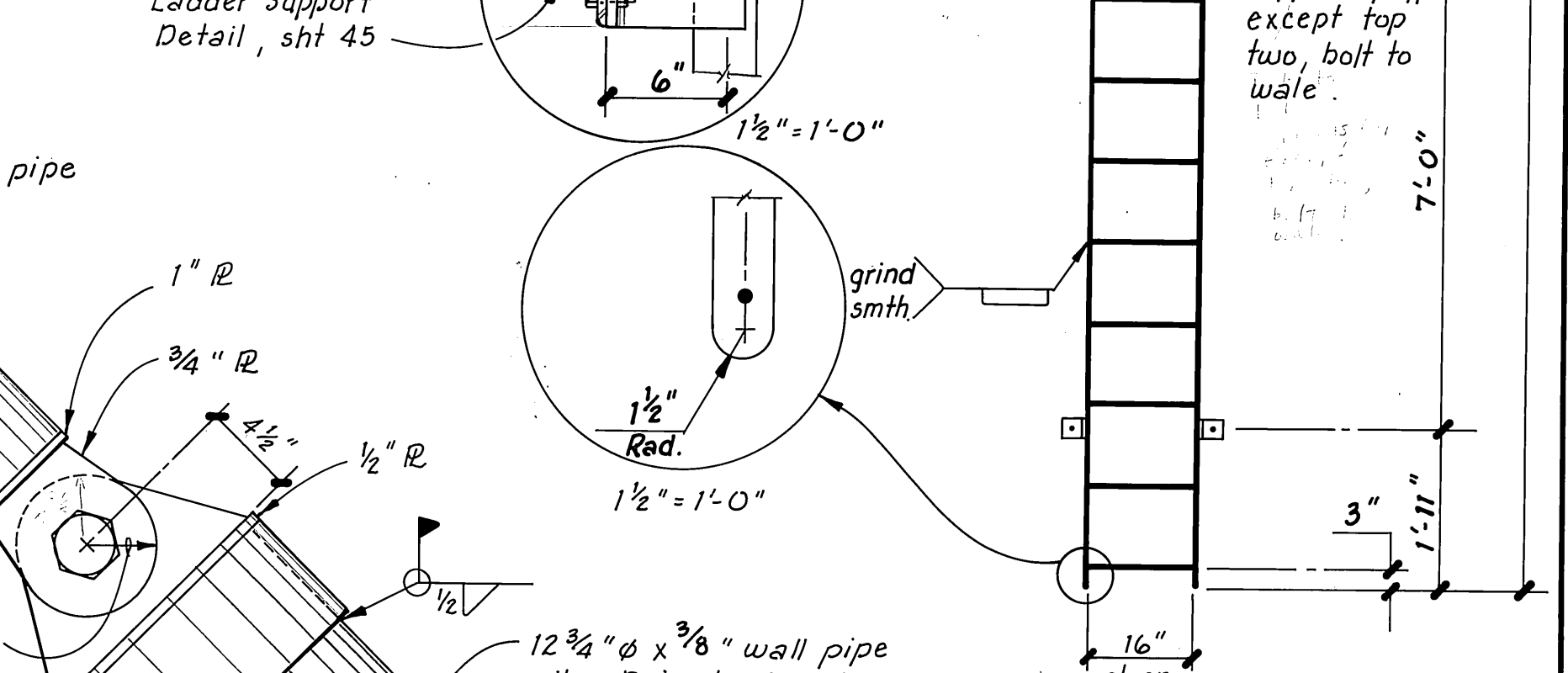
SECTION (B)



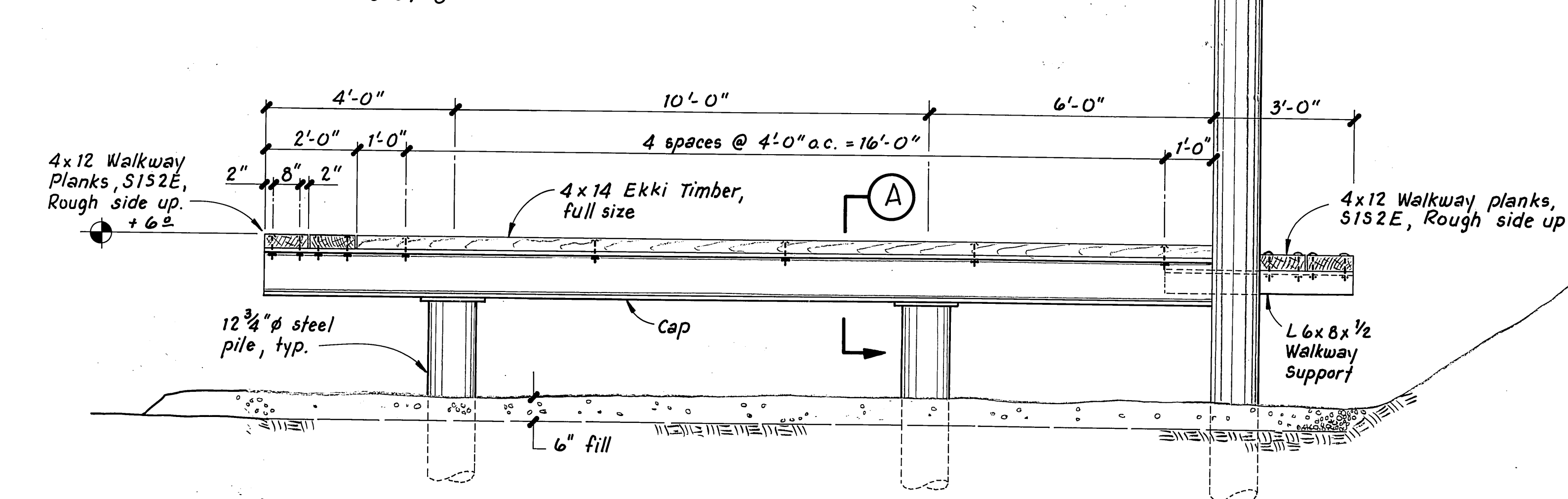
DETAIL "H"



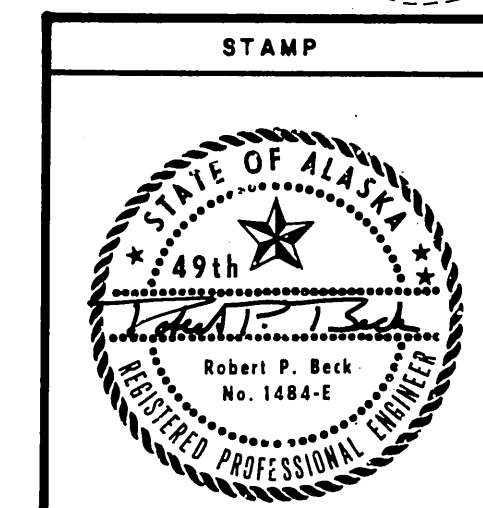
brg. clear
LADDER DETAILS



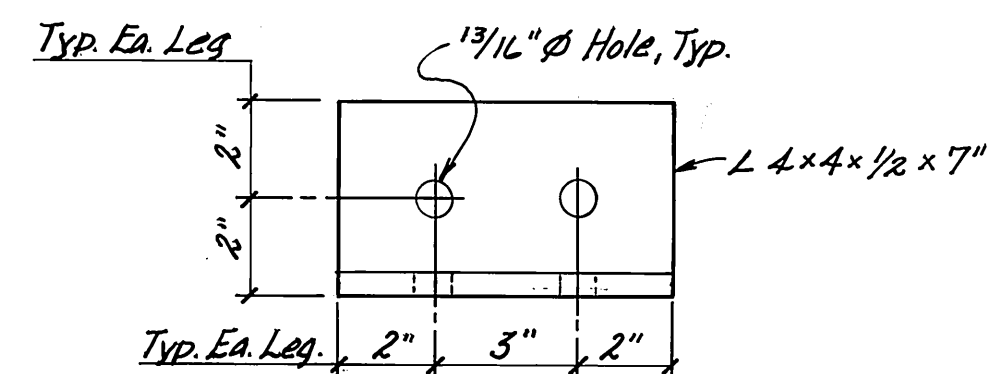
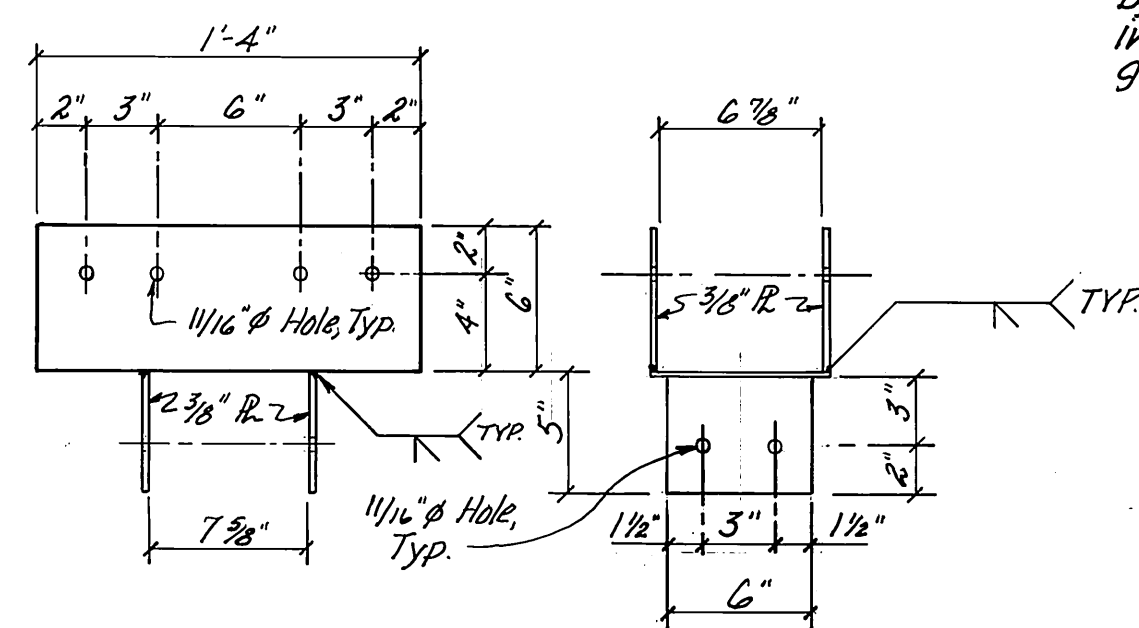
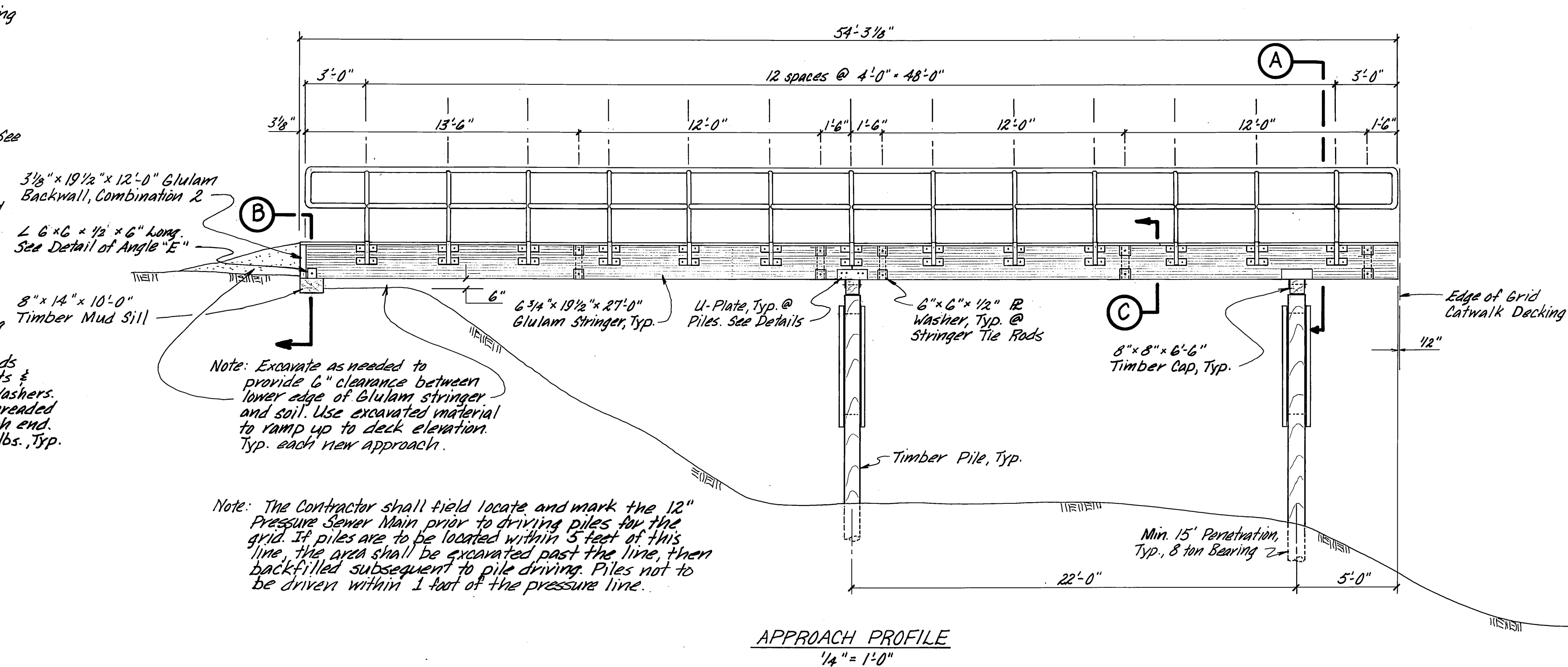
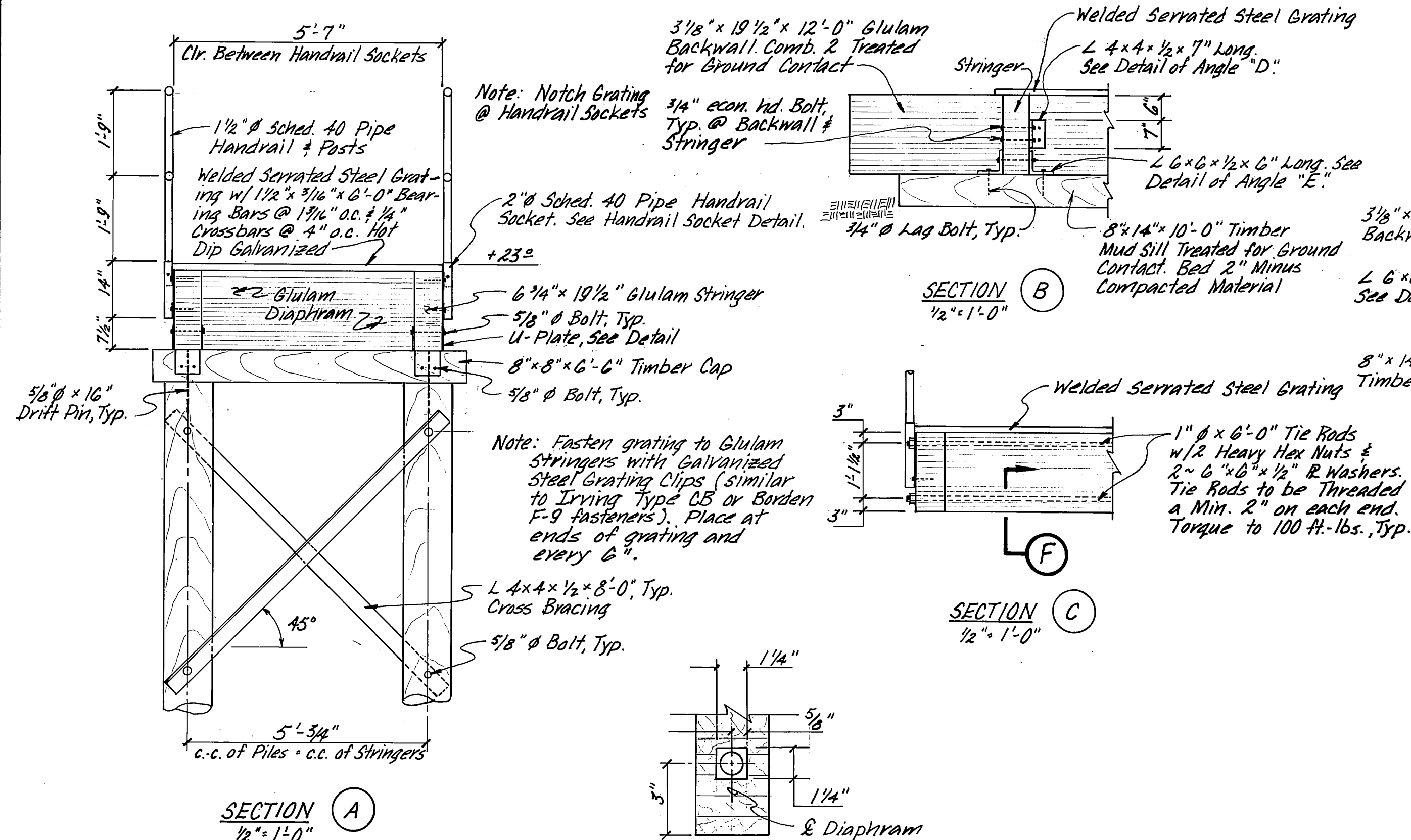
SECTION (A)
3" = 1'-0"



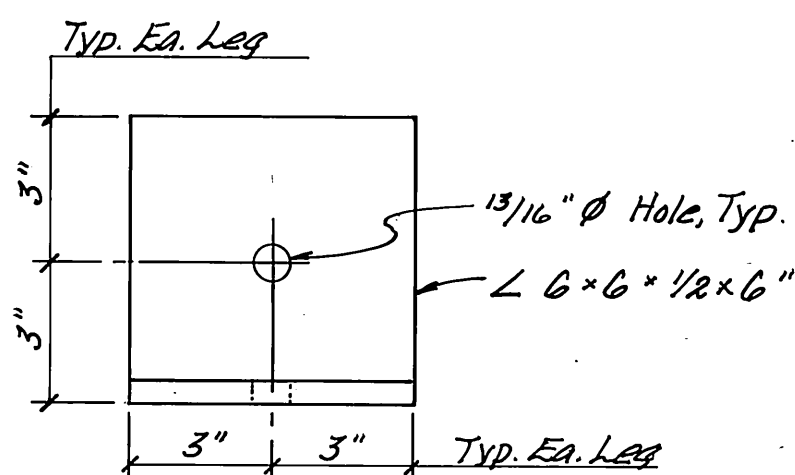
GRID CROSS SECTION (B)



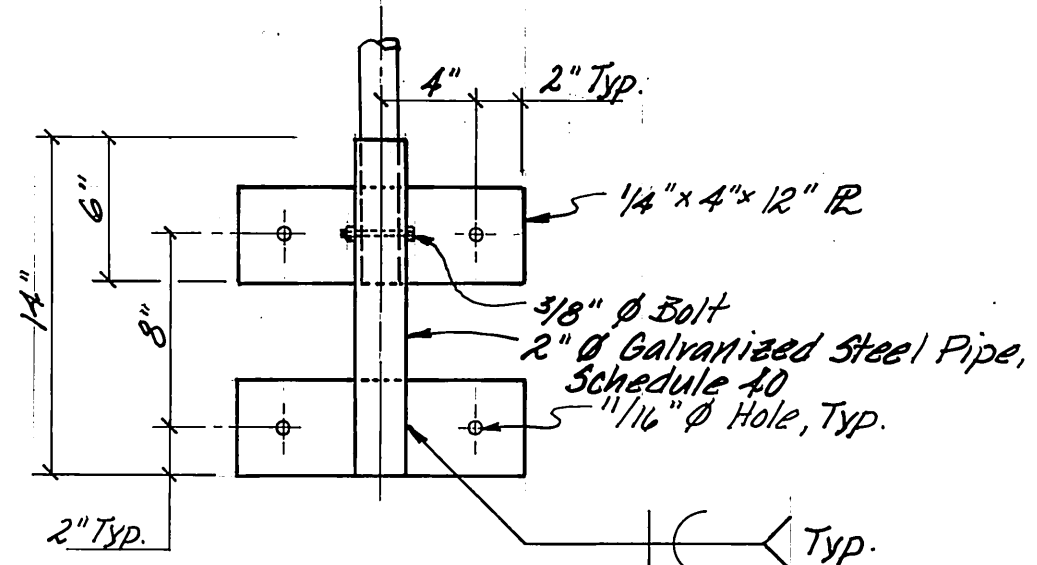
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
GRID DETAILS			
DESIGNED <u>RPB</u>	CHECKED _____	DRAWN <u>T.S.</u>	DATE <u>6-84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>46</u> OF <u>55</u>		



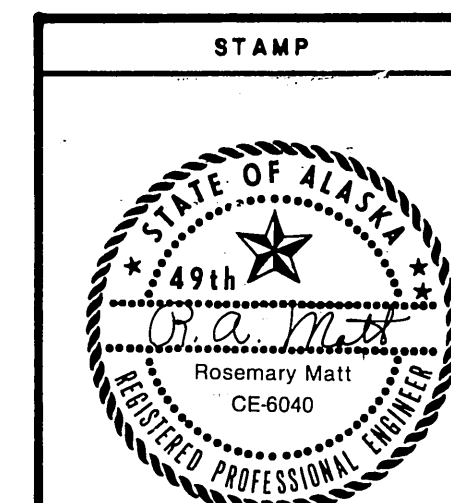
ANGLE "D"
3" = 1'-0"



ANGLE "E"
3" = 1'-0"

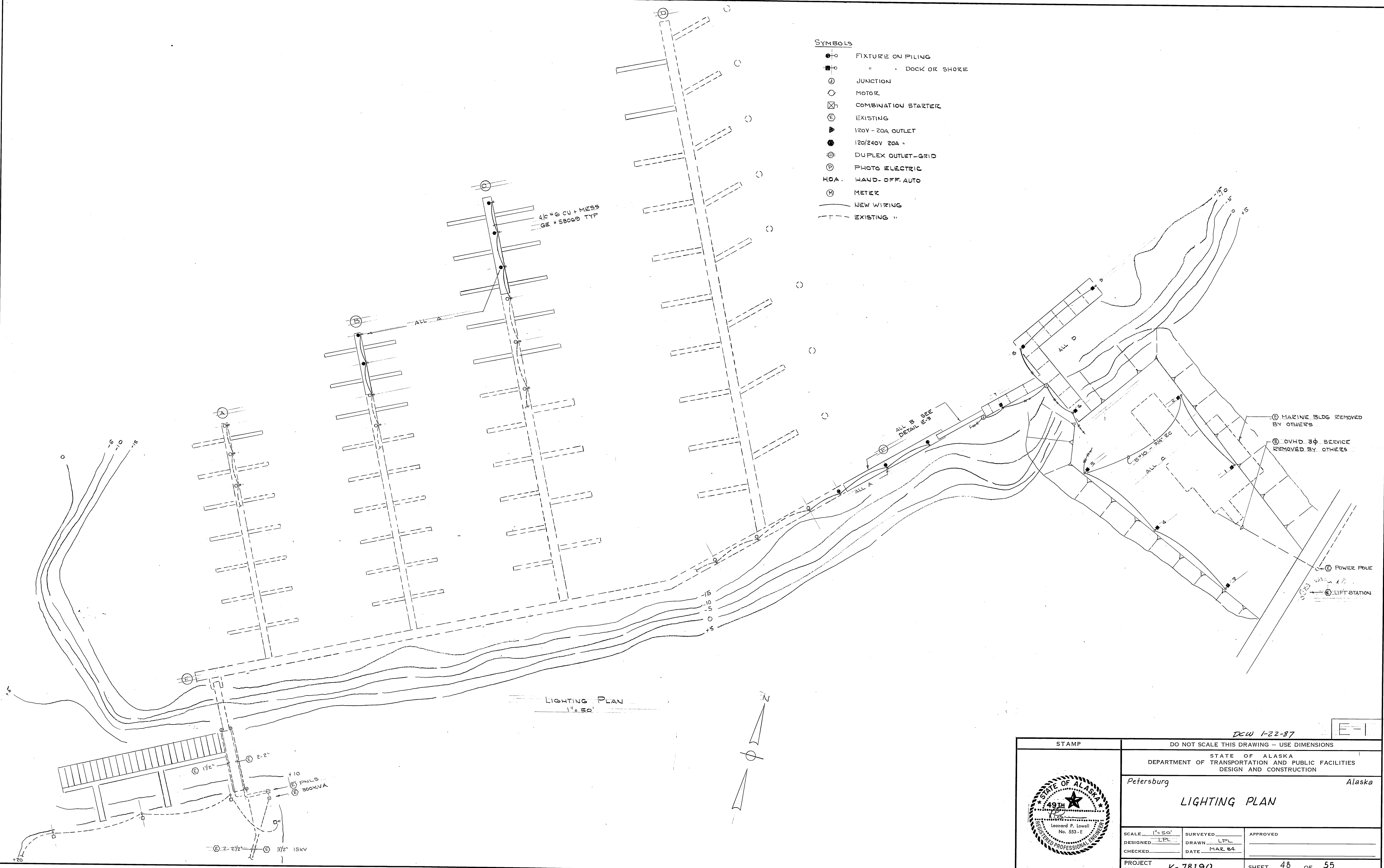


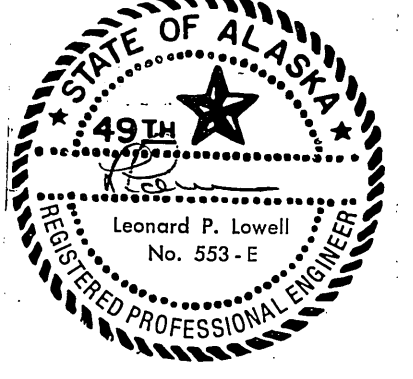
HANDRAIL SOCKET DETAIL
1/2" = 1'-0"

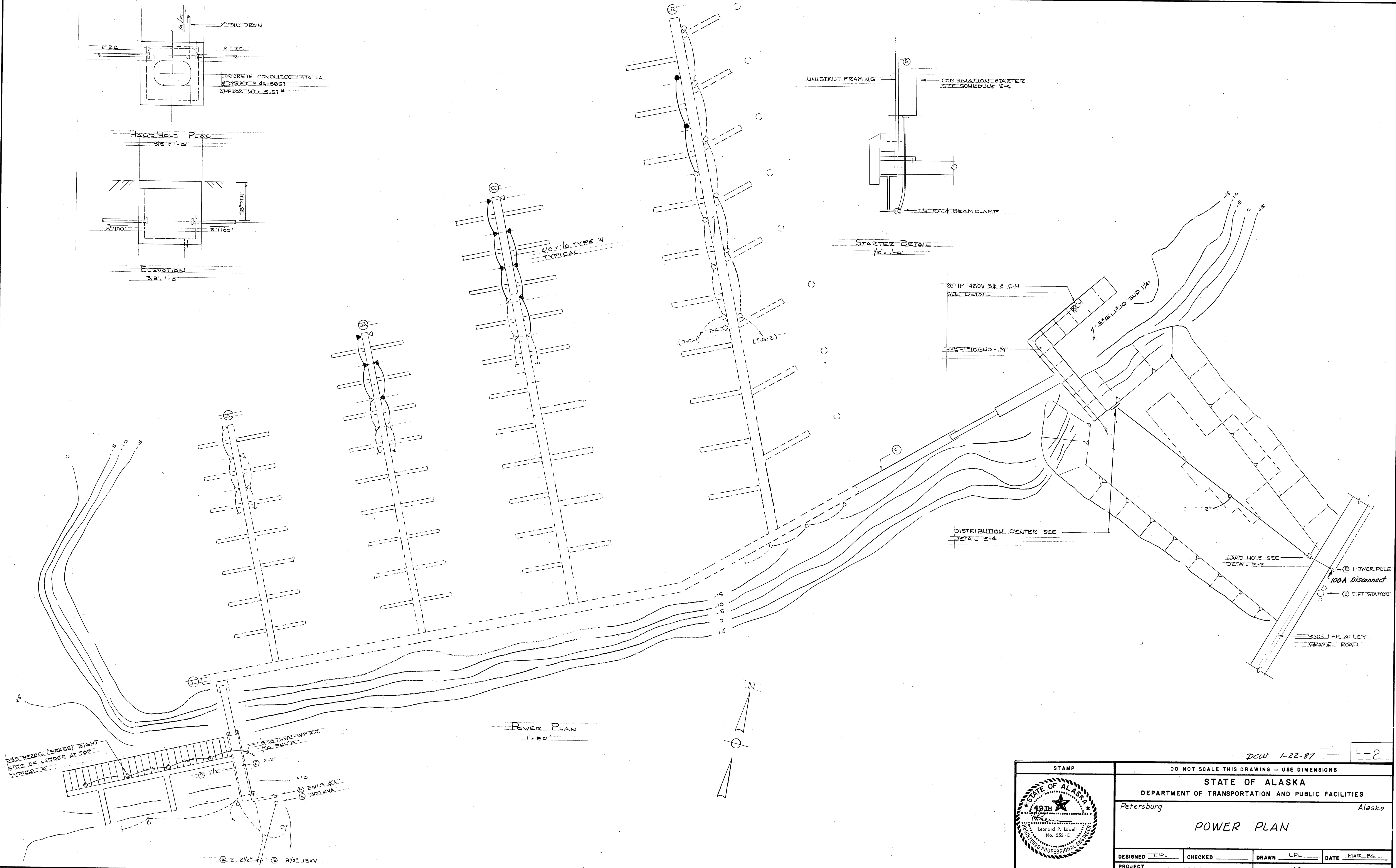
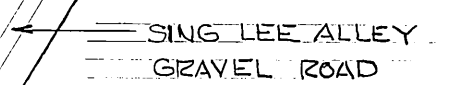
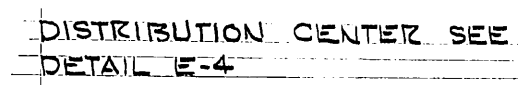
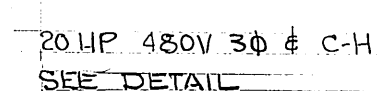
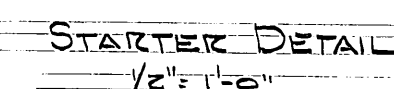
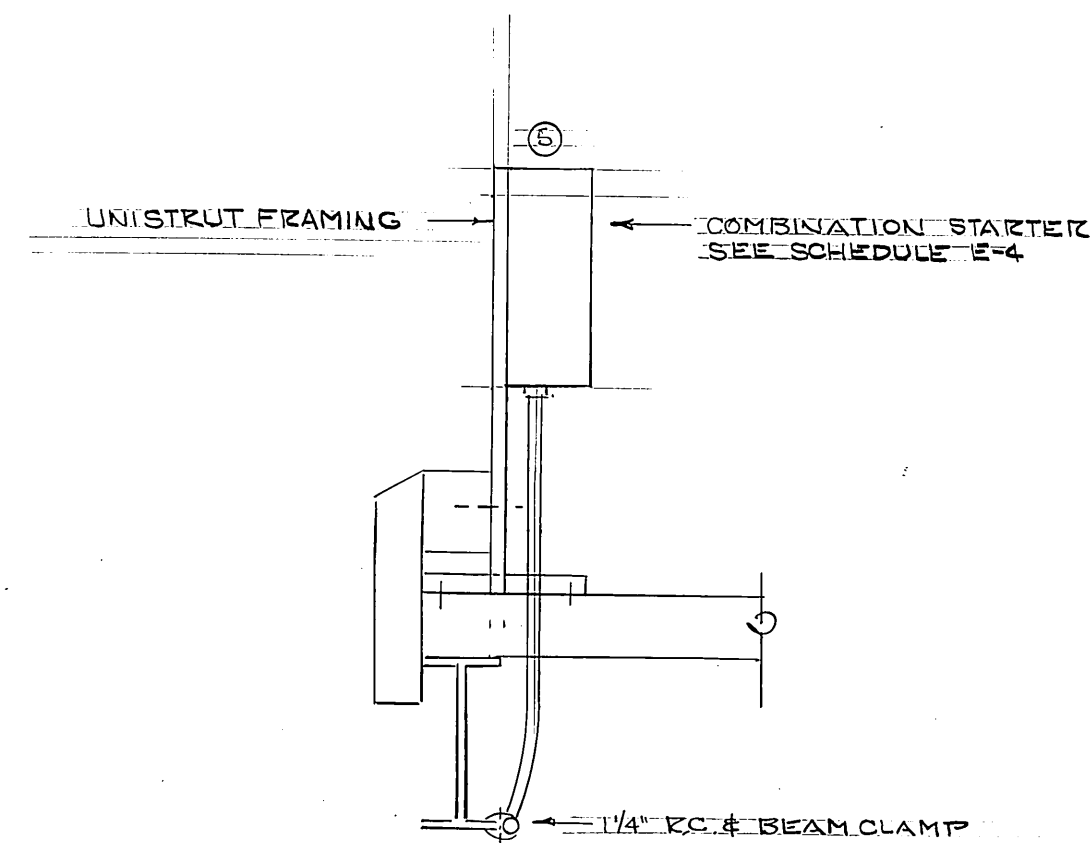


DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg			Alaska
GRID APPROACH DETAILS			
DESIGNED _____	CHECKED _____	DRAWN <u>CRH</u>	DATE _____
PROJECT NUMBER <u>K-78190</u>	SHEET <u>47</u>		OF <u>55</u>

DCW 1-22-87



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Petersburg Alaska	
		LIGHTING PLAN	
SCALE 1"=50'	DESIGNED LPL	SURVEYED	APPROVED
CHECKED	DATE MAR 84	DRAWN LPL	
PROJECT NUMBER K-78190		SHEET 48 OF 55	



DCIN: 1-22-87

F-2

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg

Alaska

POWER PLAN

DESIGNED LPL

CHECKED

DRAWN LPL

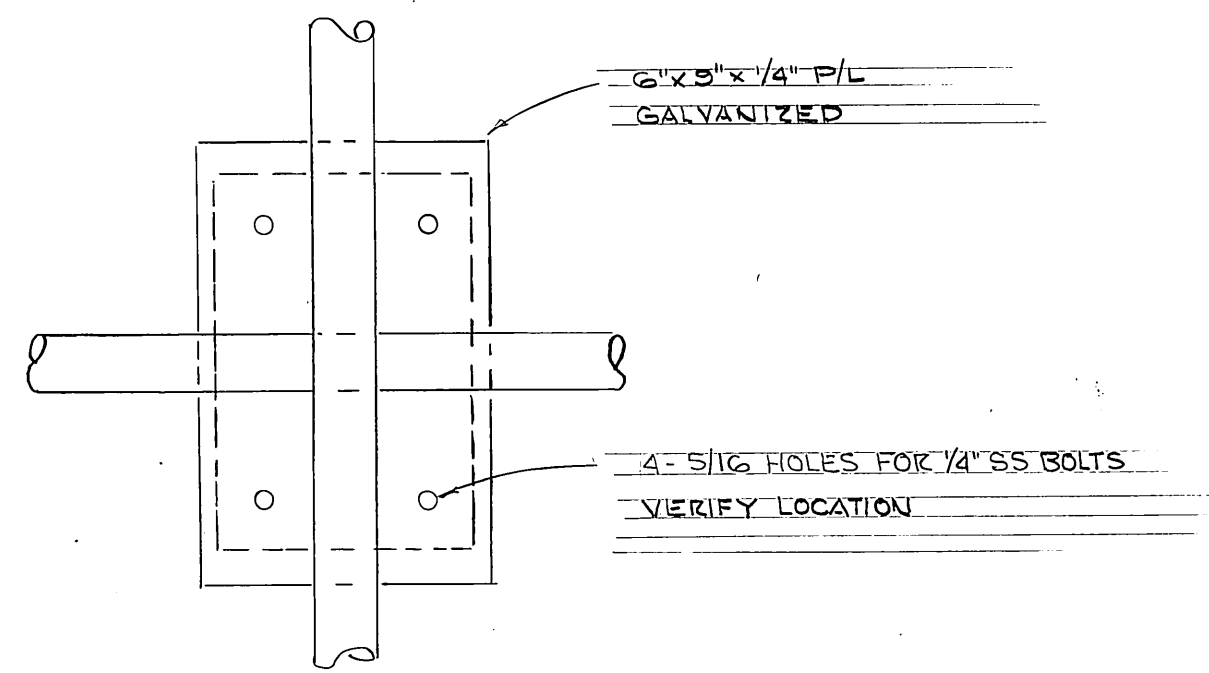
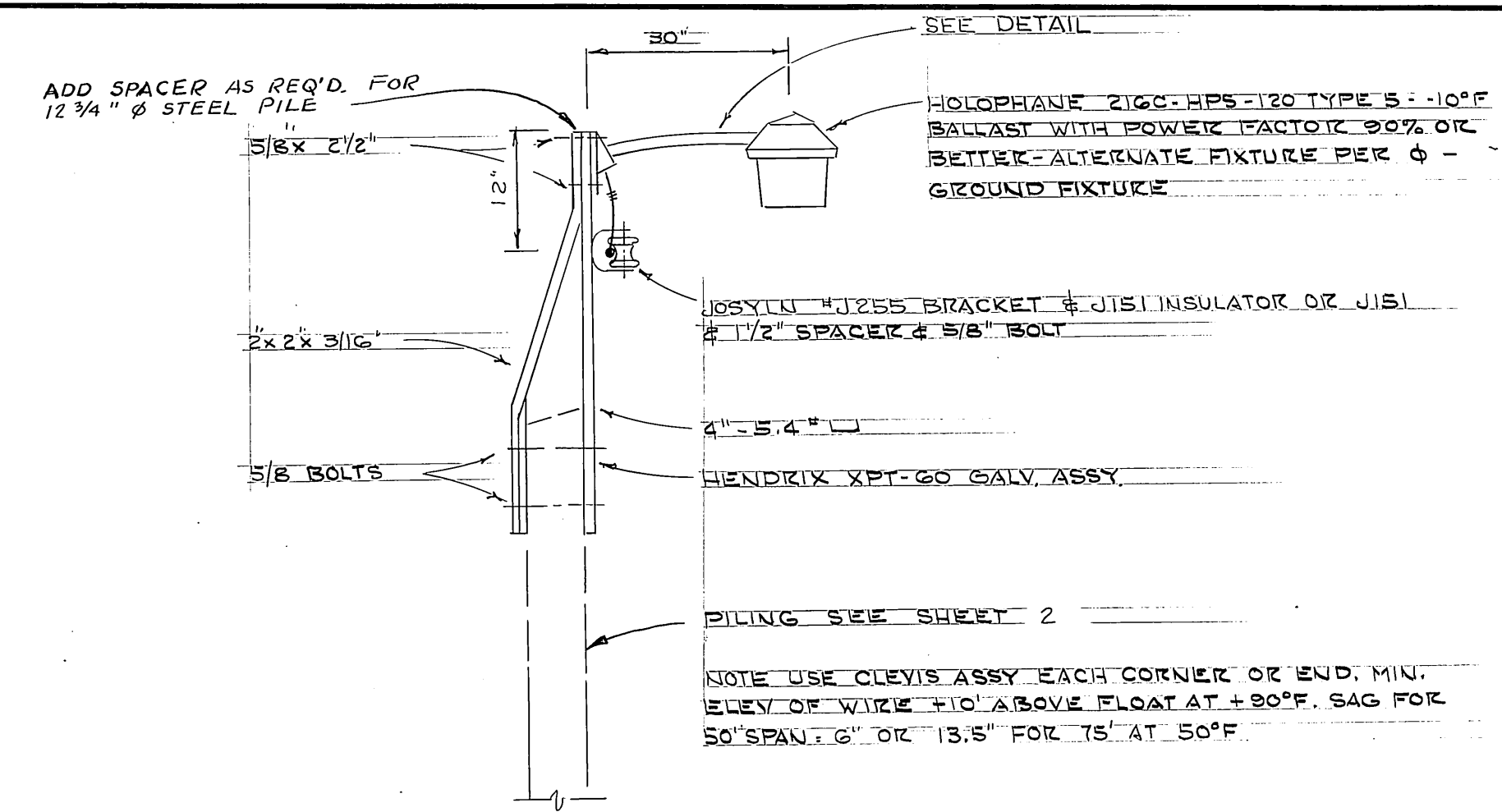
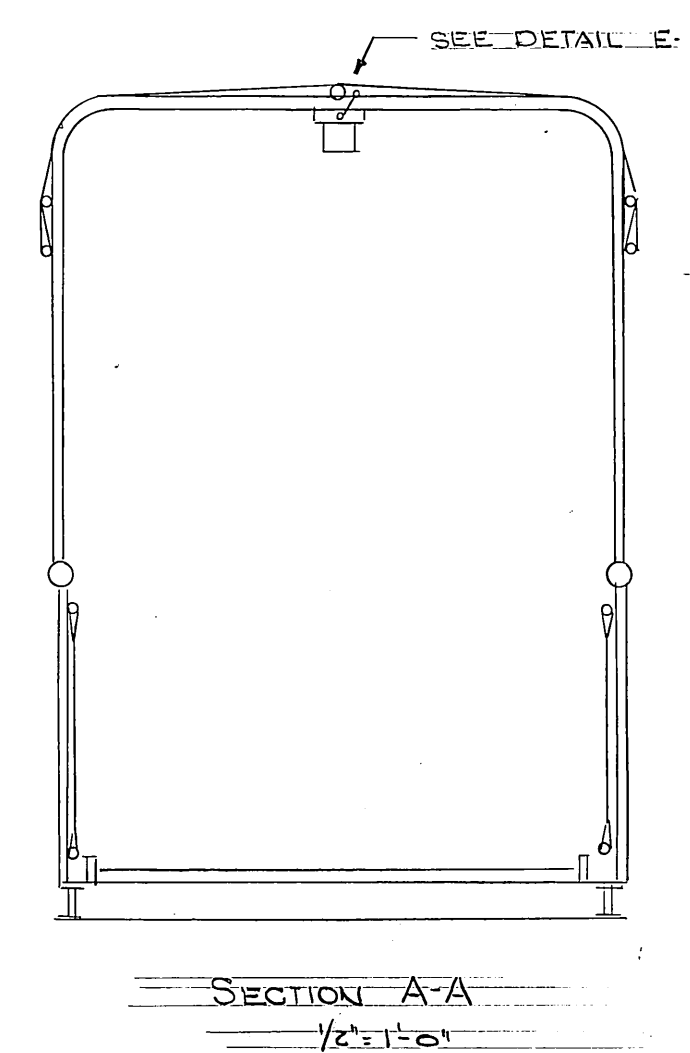
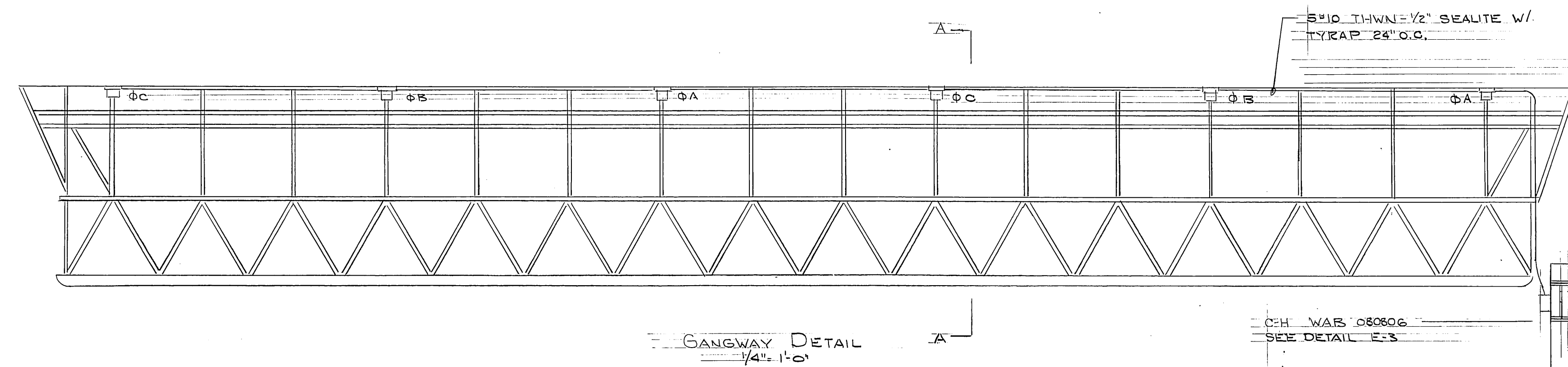
DATE MAR 84

PROJECT
NUMBER

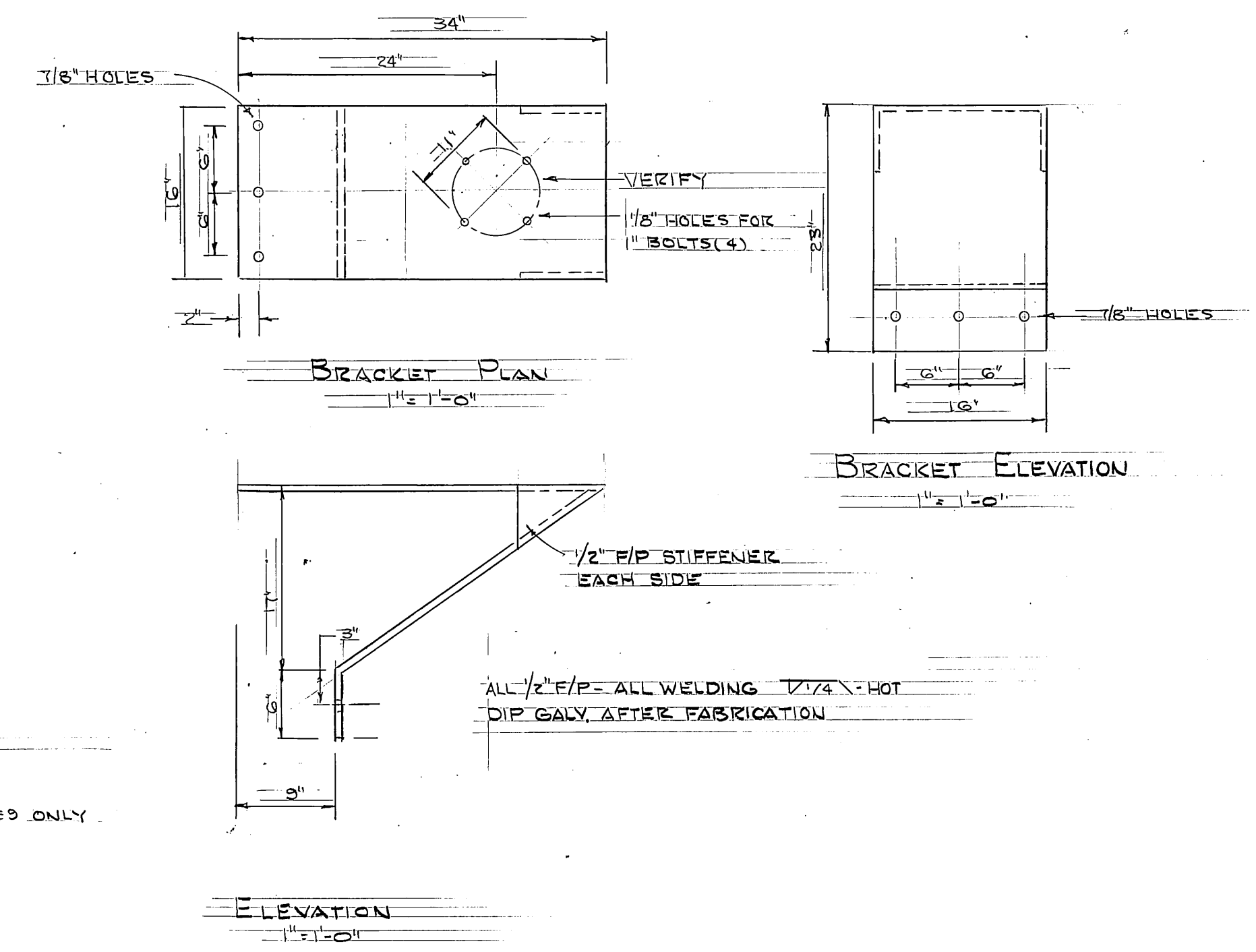
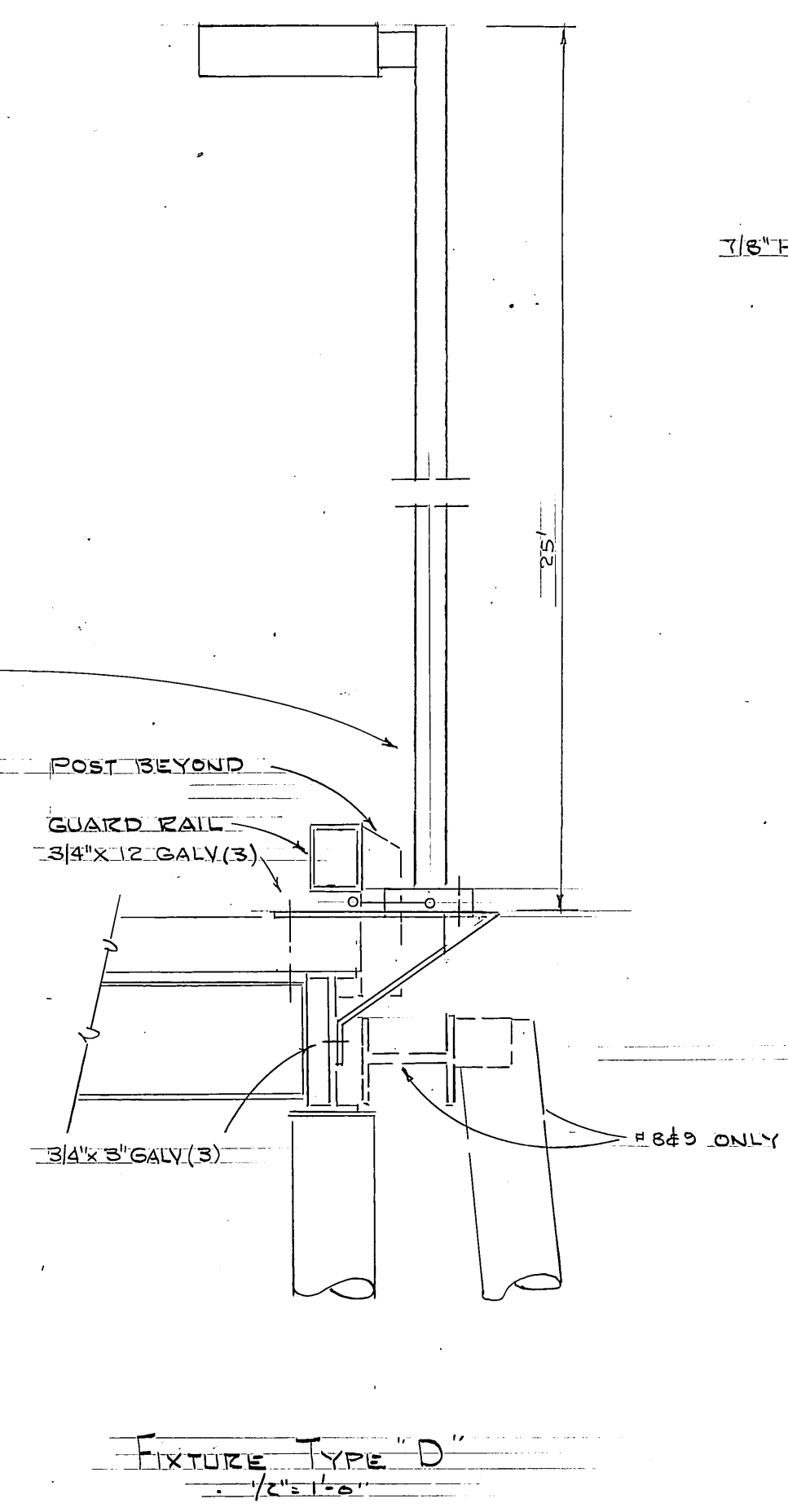
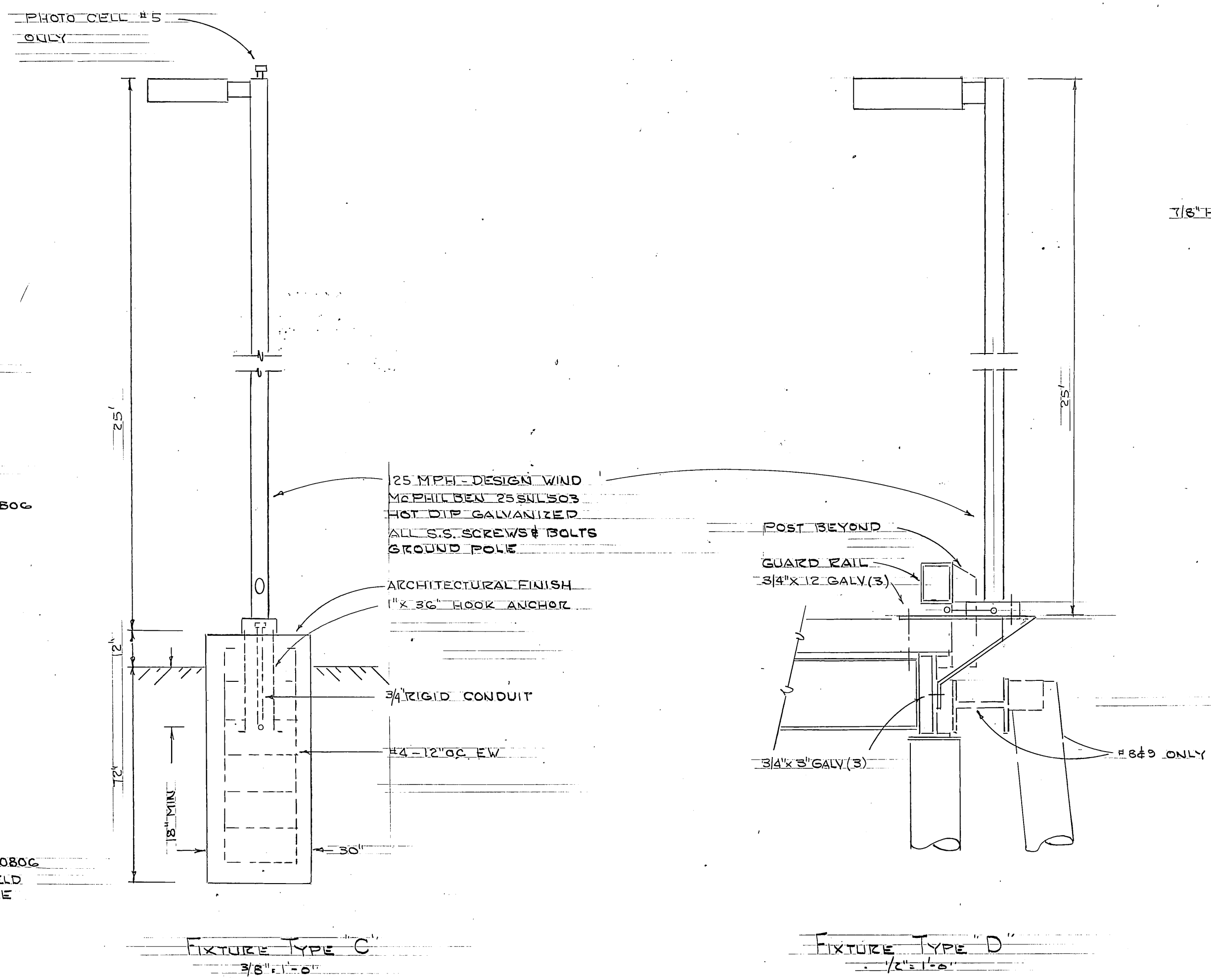
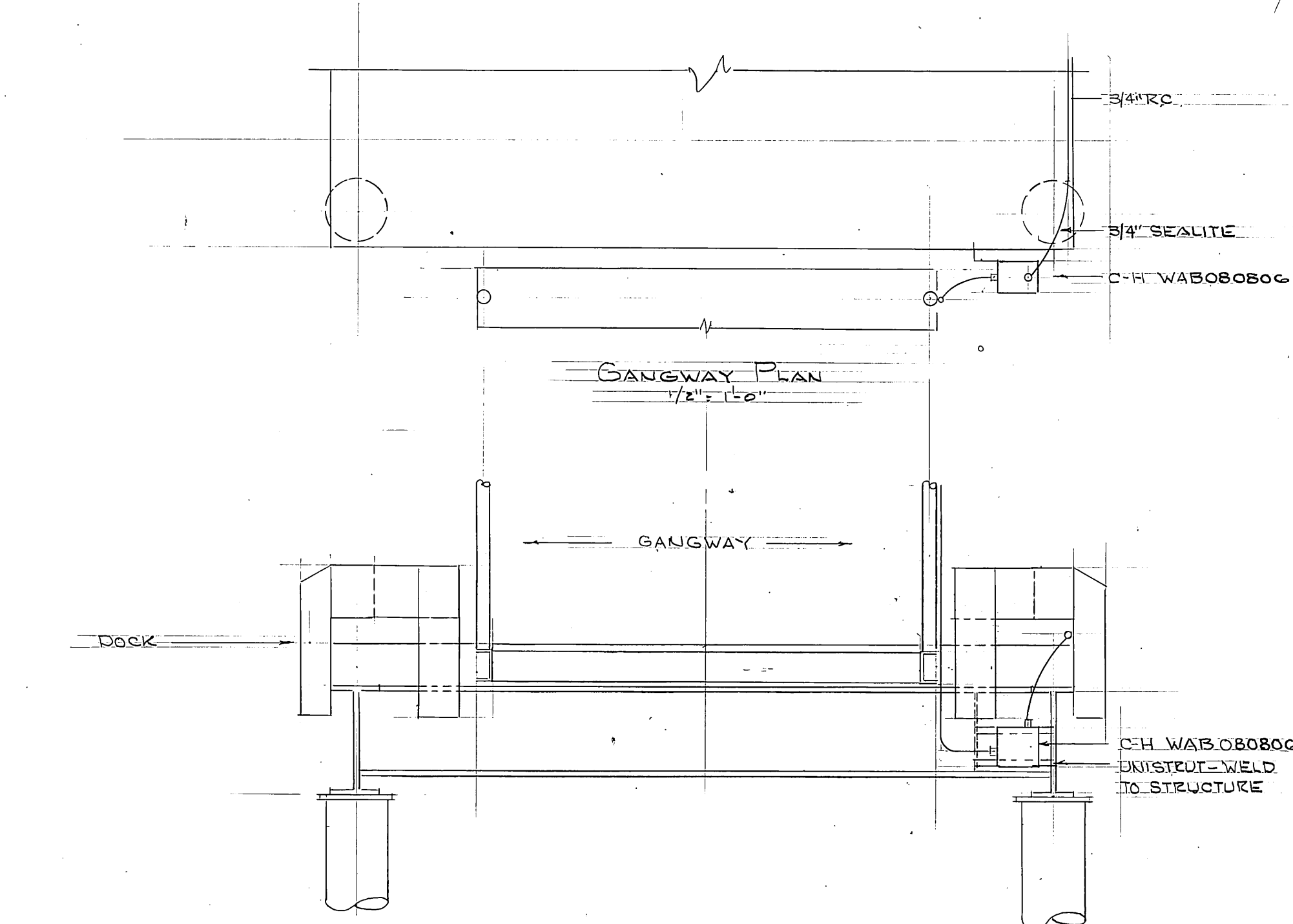
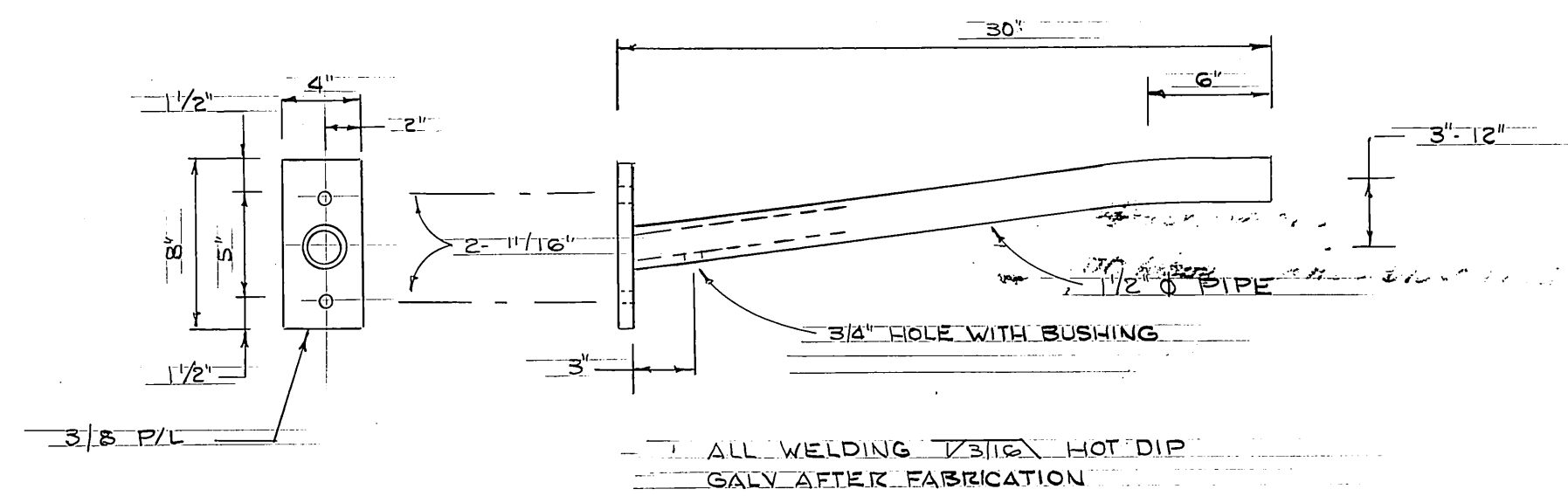
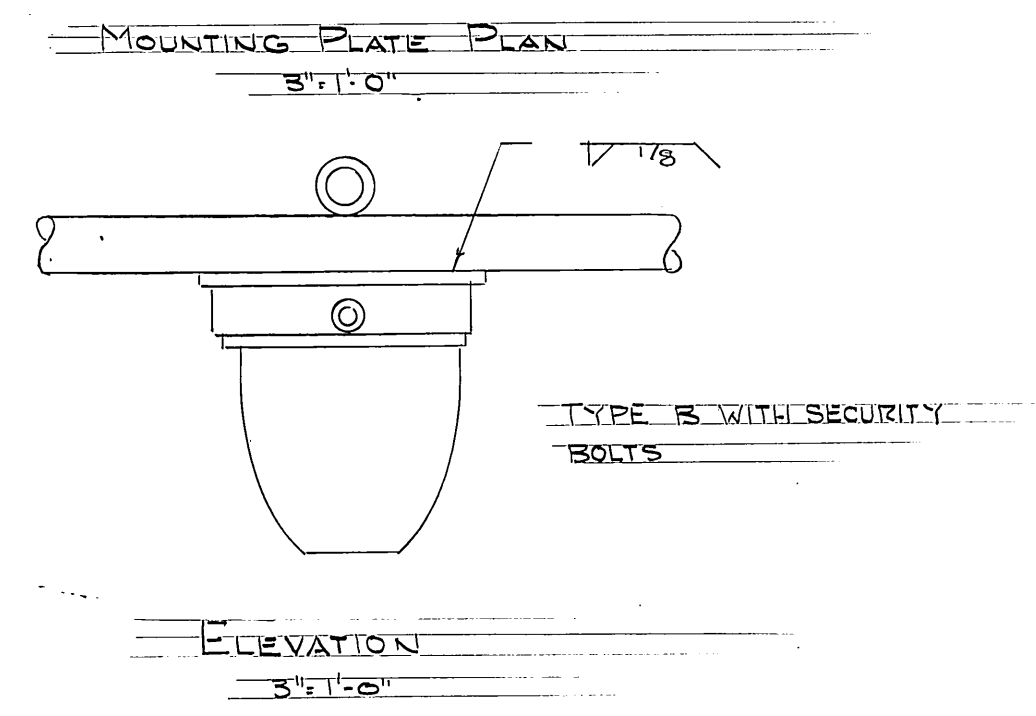
K- 78190

49

55



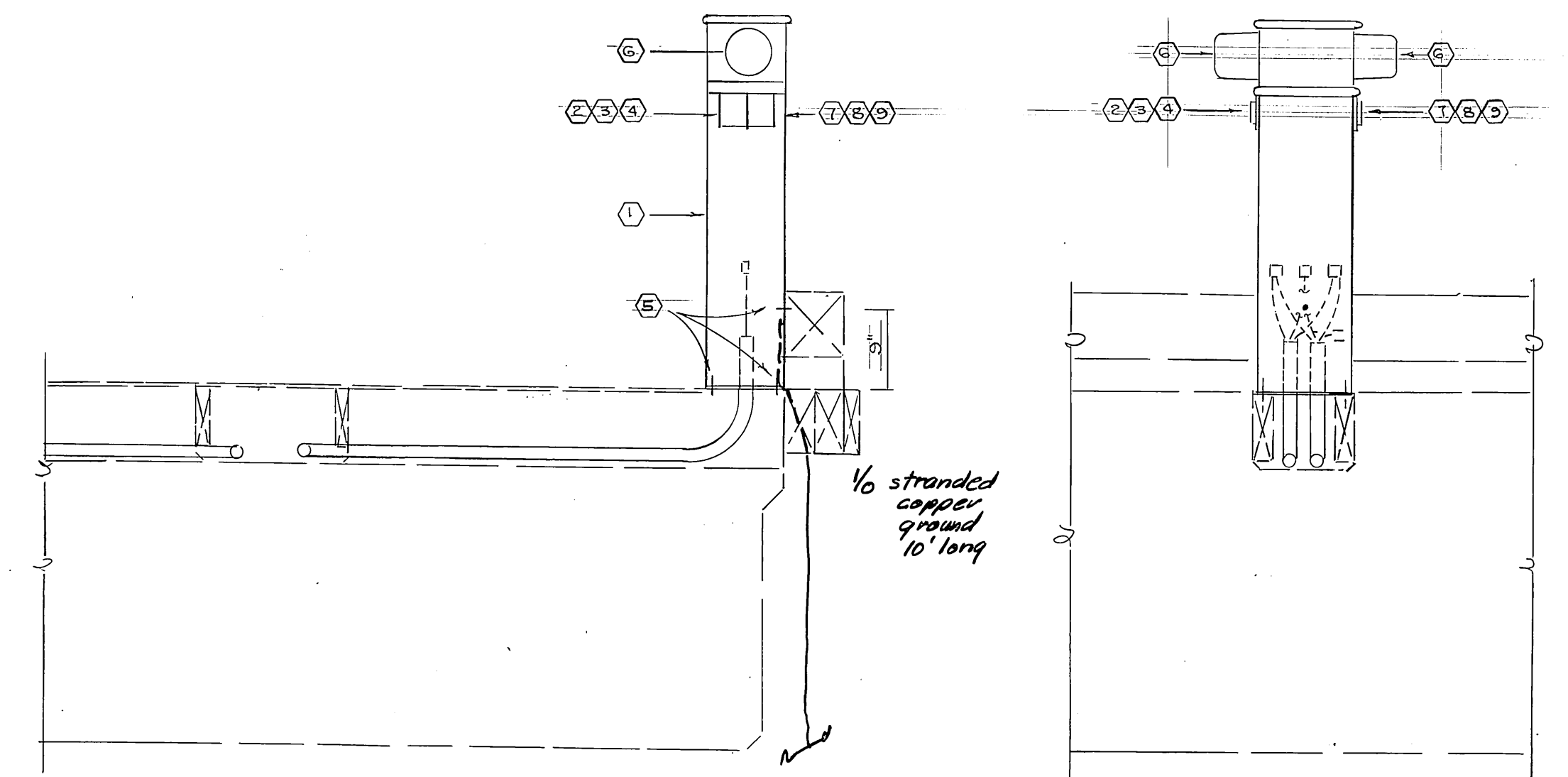
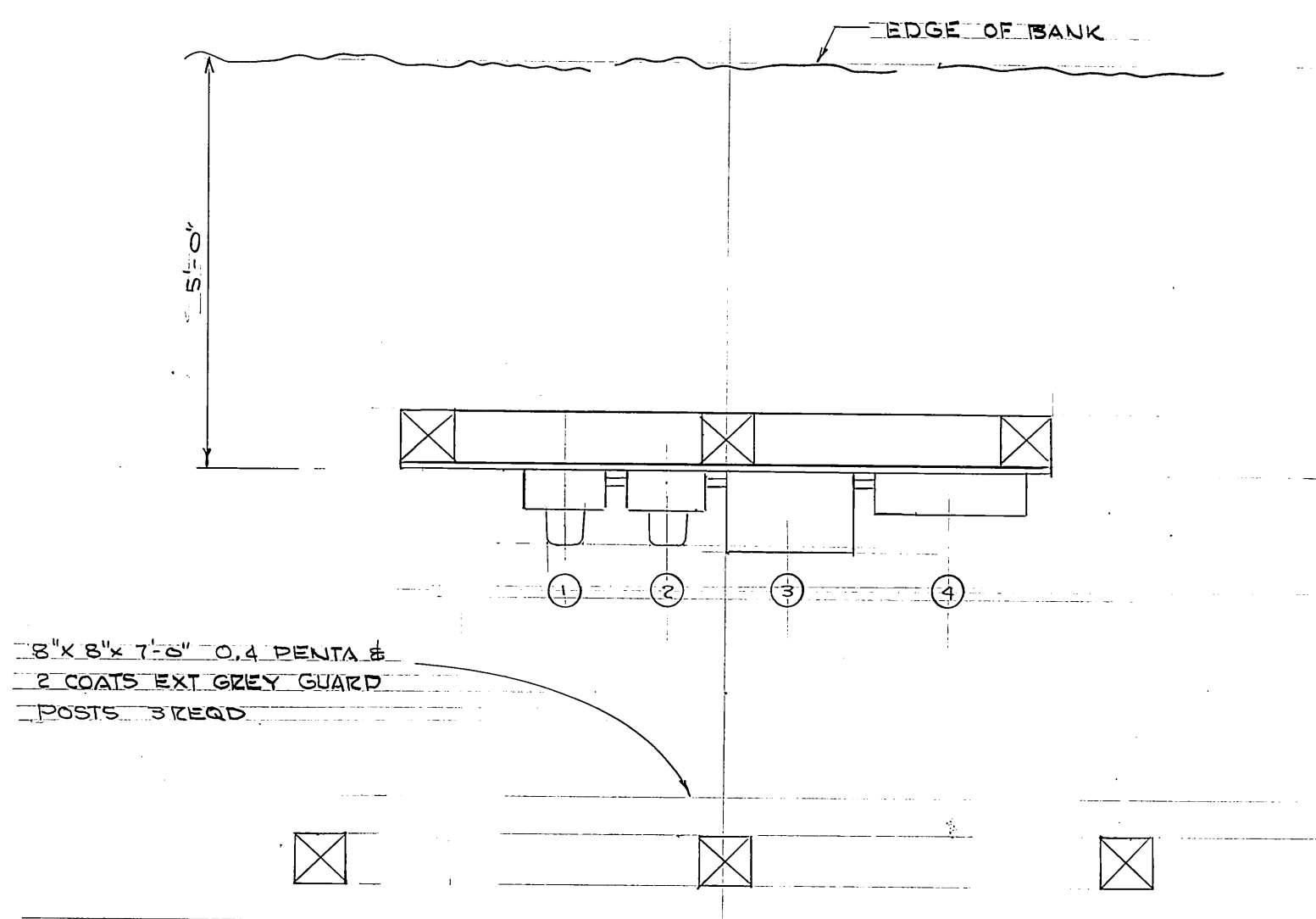
FIXTURE SCHEDULE				
TYPE	MFG	W	REMARKS	
A	HOLOPHANE	2160-HPS-120	100-HPS	ON PILING - SEE DETAIL
B	KENALL	3131-DD-9031	100	SEE DETAIL
C	MOPHILBEN	1 RB-G4-1D-120	250HPS	" " CONCRETE BASE
D	"	1 RB-G4-1D-120	250HPS	" " BRACKET



DCW 1-22-87

E-3

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg	Alaska
MISC. ELECTRICAL DETAILS			
DESIGNED LPL	CHECKED	DRAWN LPL	DATE MAR 84
PROJECT NUMBER K-78190	SHEET 50		OF 55



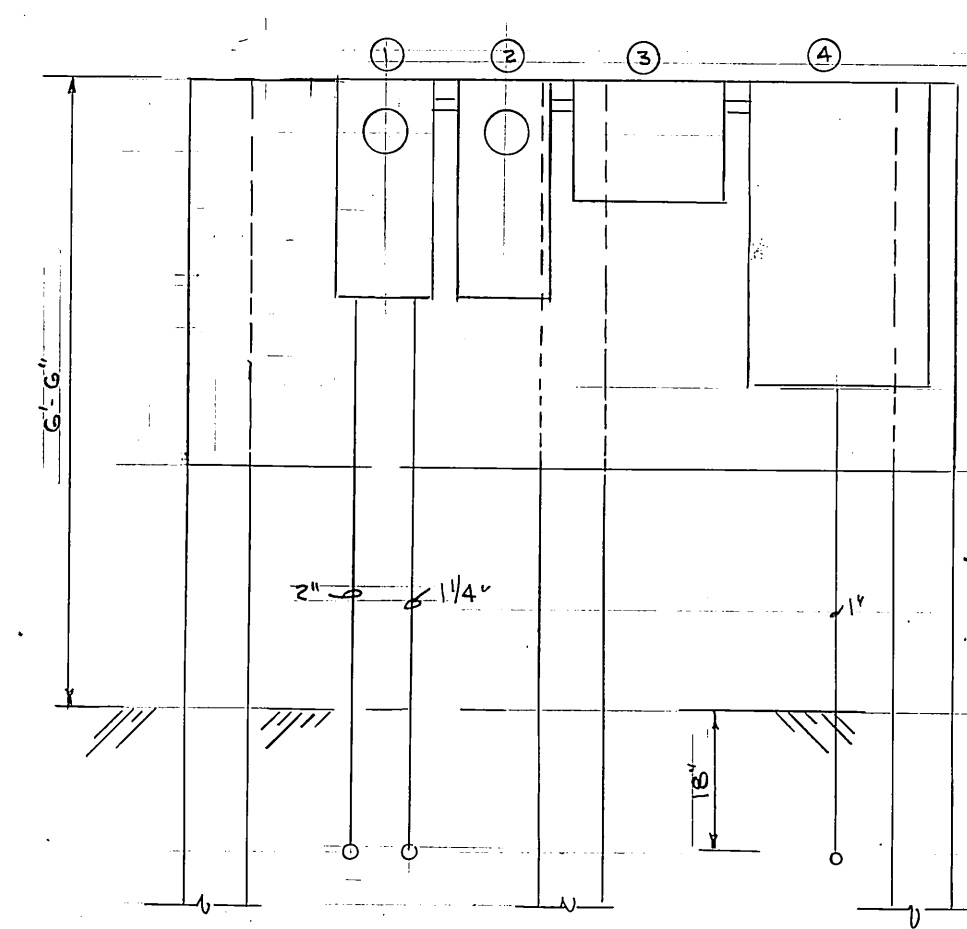
EQUIPMENT SCHEDULE No 1				
NO	ITEM	QTY	QTY	REMARKS
1	POST DANIEL WOODHEAD			MATCH EXIST
2	CIRCUIT BREAKER HEINEMANN 20/1	2		
3	RECEPTACLE L15-30R CORK RESIST	2		LOCKING COVER
4	PLUG L15-30P	2		
5	LAG SCREWS 5/8"x2" 18-8 SS	5	5	
6	METER GE V02S SJAW CYCO	2	2	
7	CIRCUIT BREAKER HEINEMANN 20/2		2	LOCKING COVER
8	RECEPTACLE L14-30R CORK RESIST		2	
9	PLUG L14-30P		2	

- NOTES
1. ALL NUTS, BOLTS, SCREWS ETC TO BE STAINLESS STEEL
 2. POST TO BE FIBERGLASS FINISH COLOR MARINE BLUE
 3. LUGS INCL GROUND FOR 1/2 TYPE W CABLE
 4. ALL INTERNAL WIRING #10AWG STRANDED COPPER MINIMUM
 5. PROVIDE UL LABEL

DISTRIBUTION CENTER PLAN
1/2" = 1'-0"

TYPICAL SECTION
3/8" = 1'-0"

TYPICAL ELEVATION
3/8" = 1'-0"

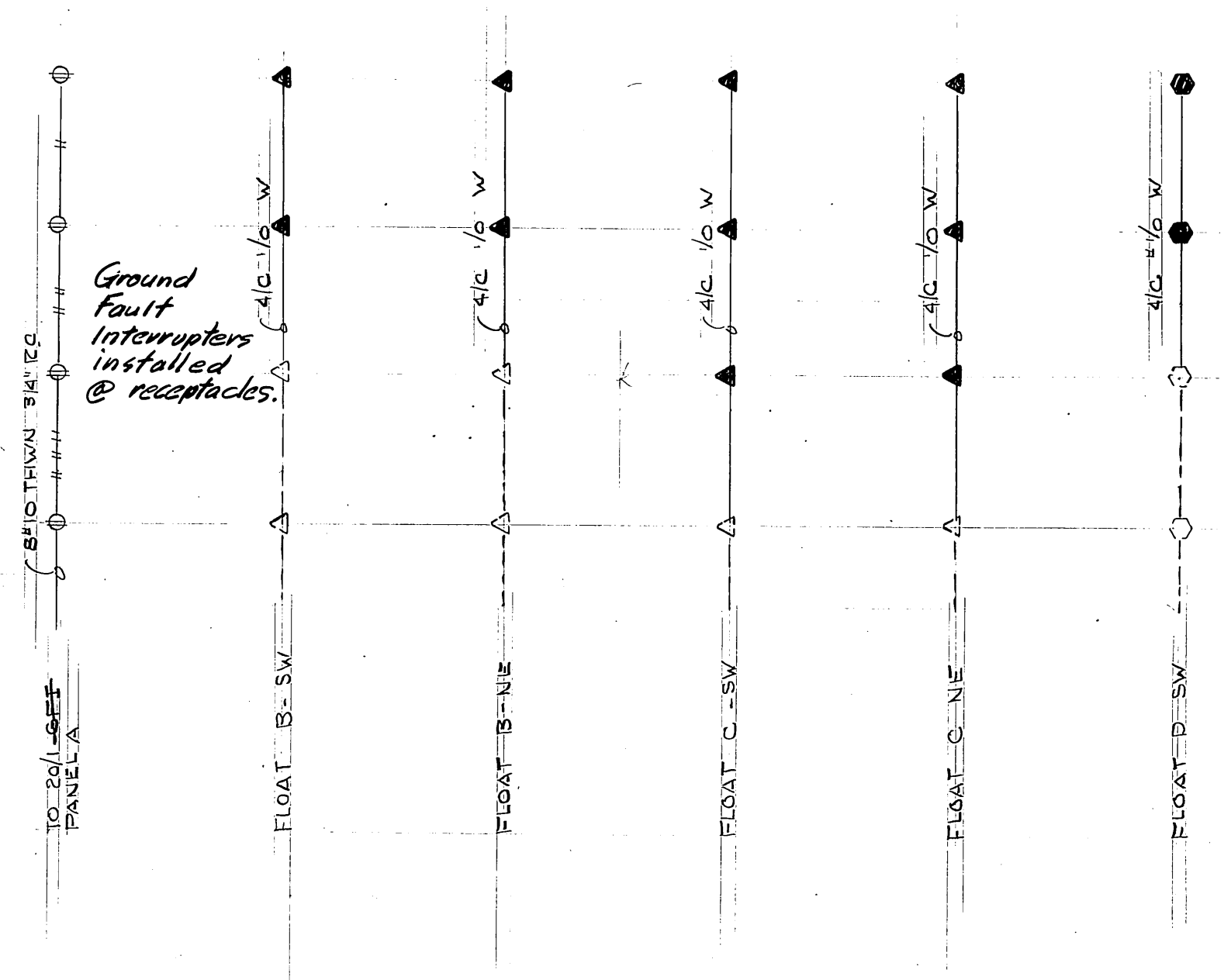


- 8"x8"x10'-0" EIC POSTS, 2"x8" FRAMING
3/4"x4'-0"x8'-0" MARINE PLYWOOD
ALL 0.4 PENTA # 2 COATS EXT GREY

ELEVATION
1/2" = 1'-0"

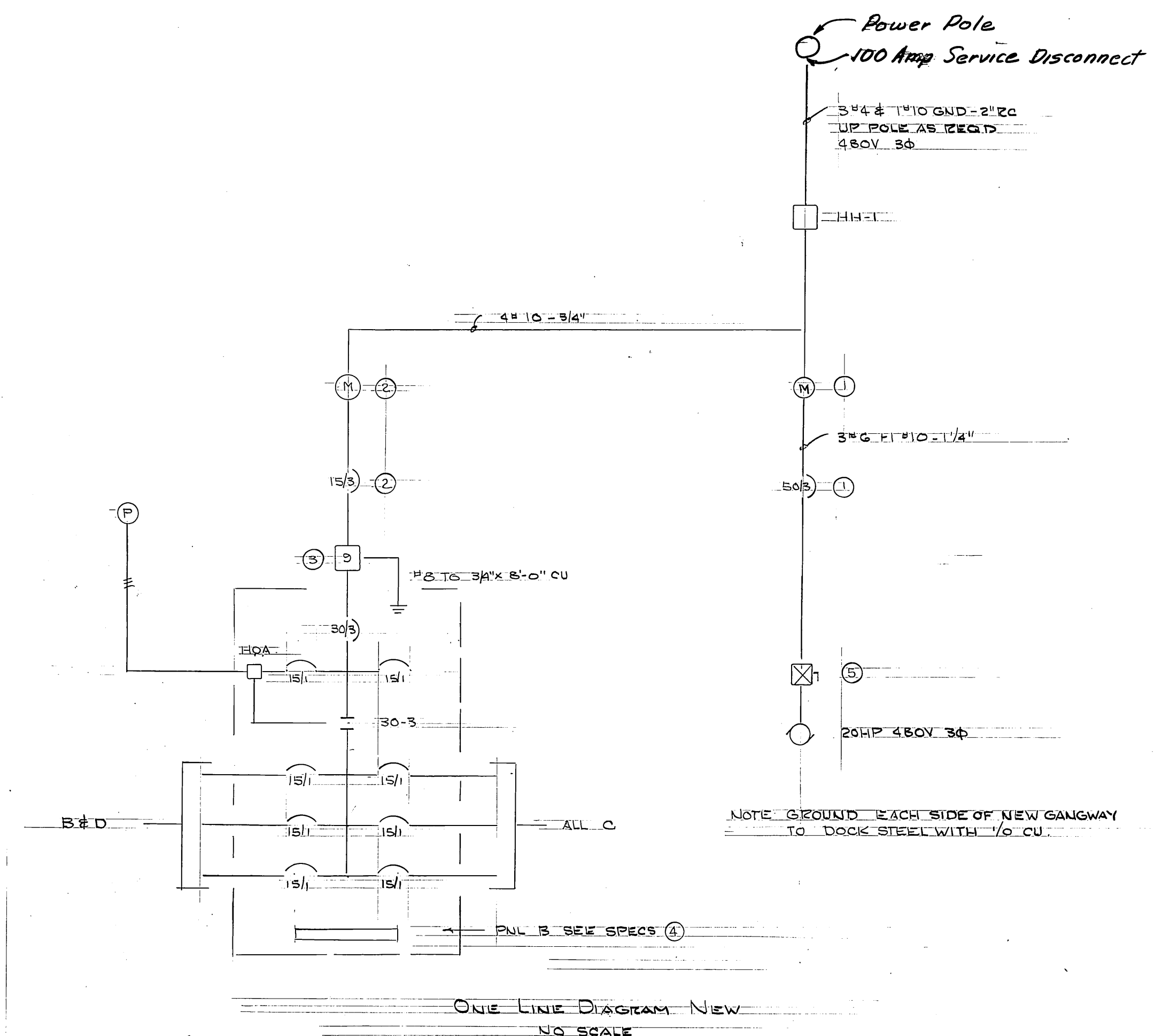
EQUIPMENT SCHEDULE No 2			
NO	ITEM	QTY	REMARKS
1	METER/CR ANCHOR URS7771-QC100-2P	1	50/3 480V 3φ C/B
2	"		15/3 480V 3φ C/B
3	50KVA 480-3φ-120/208V 3φ		50/2 GEL STZF EPOXY ENCAPSULATED
4	PANEL B SEE SPECS		
5	STARTER SQD SDW-11-SS		20HP-480V 3φ-120V CONTROL

START/STOP/RESET BEHIND PLASTIC COVER - HANDLE FOR PADLOCK - PROVIDE UNISTROT STAND NEAR HOIST-SEALITE TO MOTOR
ALL METERS FOR ITEMS 1 & 2 480V 3φ 1JAW BY UTILITY
ALL ENCLOSURES NEMA 3R OR BETTER

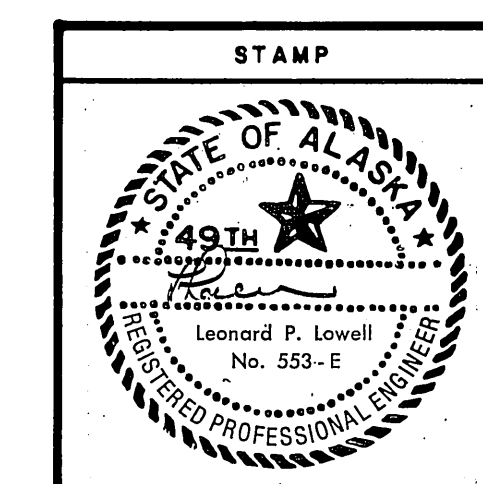


ONE LINE DIAGRAM EXISTING
NO SCALE

NOTE: DIAGRAM OF EXTENSION OF EXISTING LIGHTING CIRCUITS NOT SHOWN - SEE E-1 FOR SCOPE - ALL WIRE 4/0 #6 CU + MESS. GE # ST-58069 TO MATCH EXIST



ONE LINE DIAGRAM NEW
NO SCALE



DO NOT SCALE THIS DRAWING - USE DIMENSIONS

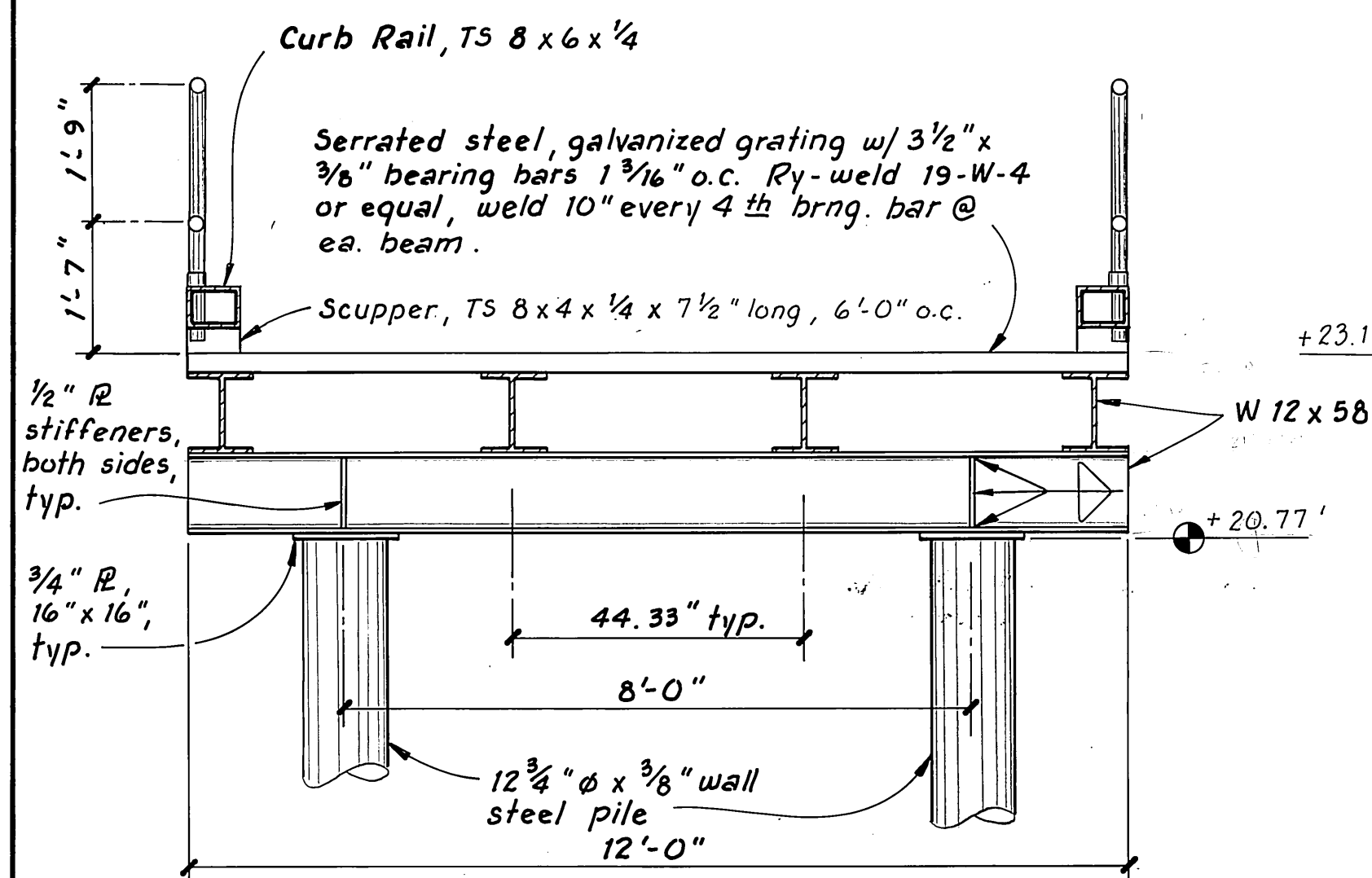
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
Petersburg Alaska

MISC. ELECTRICAL DETAILS

DESIGNED LPL CHECKED DRAWN LPL DATE MAR 84
PROJECT NUMBER K-78190 SHEET 51 OF 55

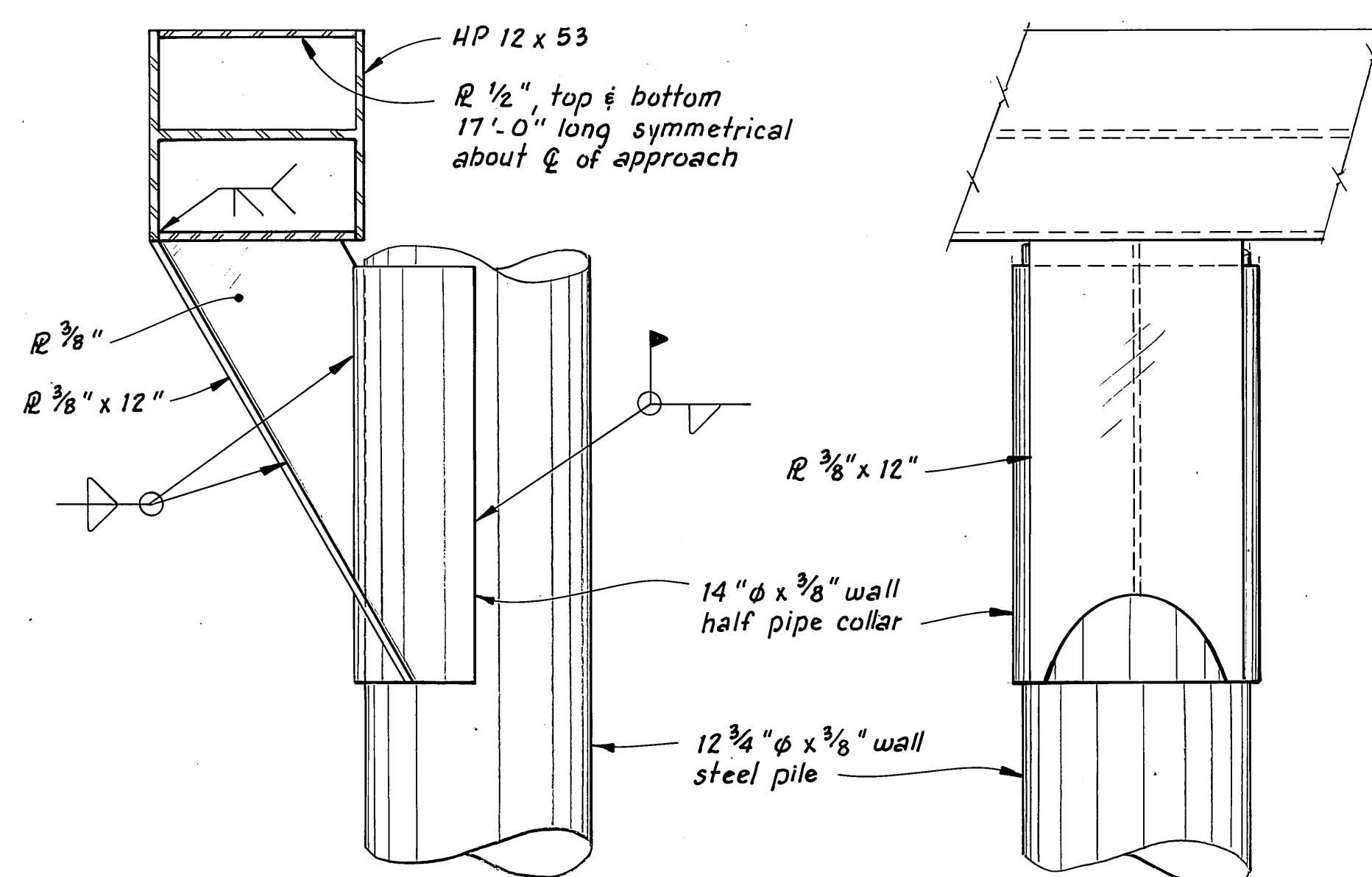
DCW 1-22-87

E-4



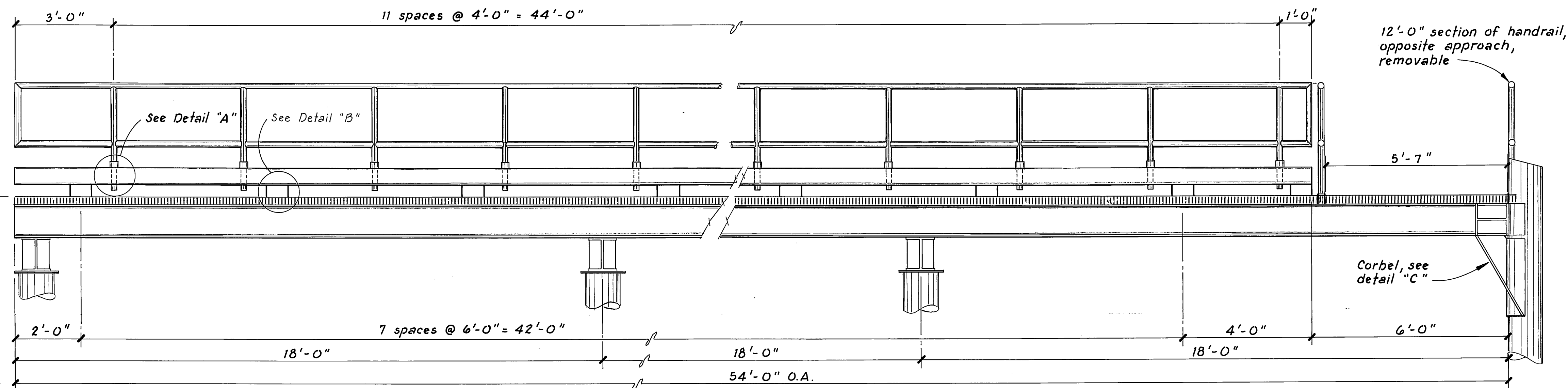
TYPICAL X-SECTION
1/2" = 1'-0"

NOTES: See typical details re: dock & grid for standard handrail, pile/plate/cap construction. W 12 x 58 beams may be spliced using appropriate full penetration welds - no welds middle 1/2 of beam between spans.

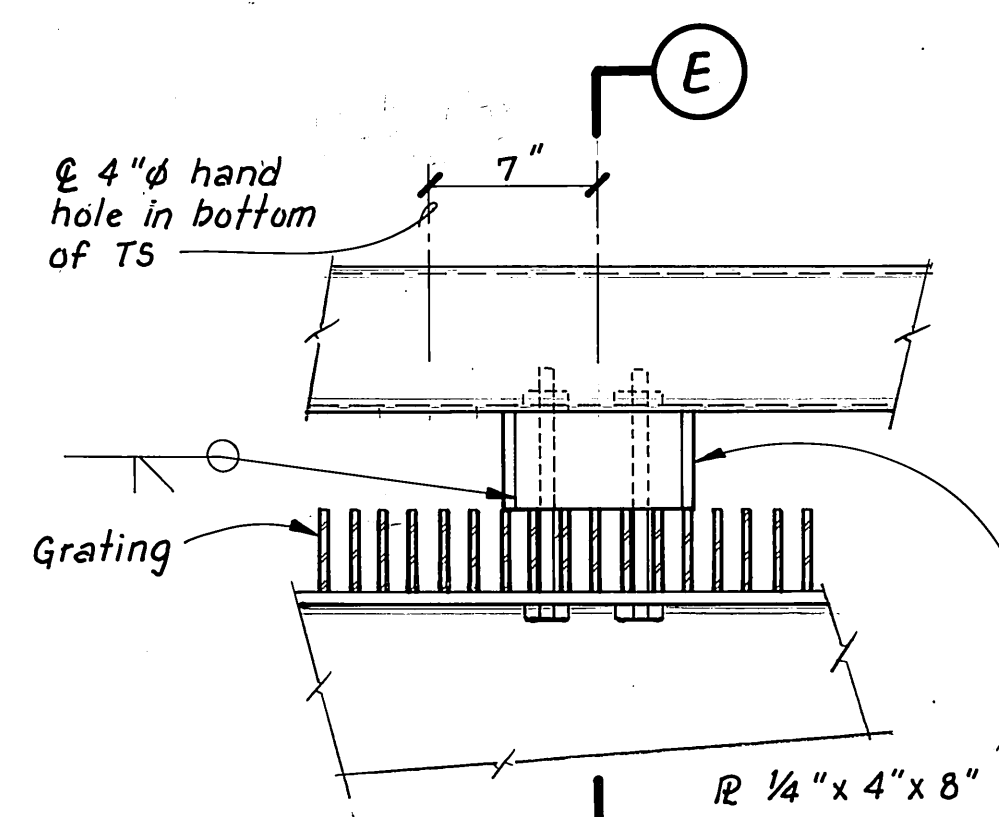


NOTE: 3 Corbels req'd. Symmetrical about C of approach, 8' o.c. 16' o.c.

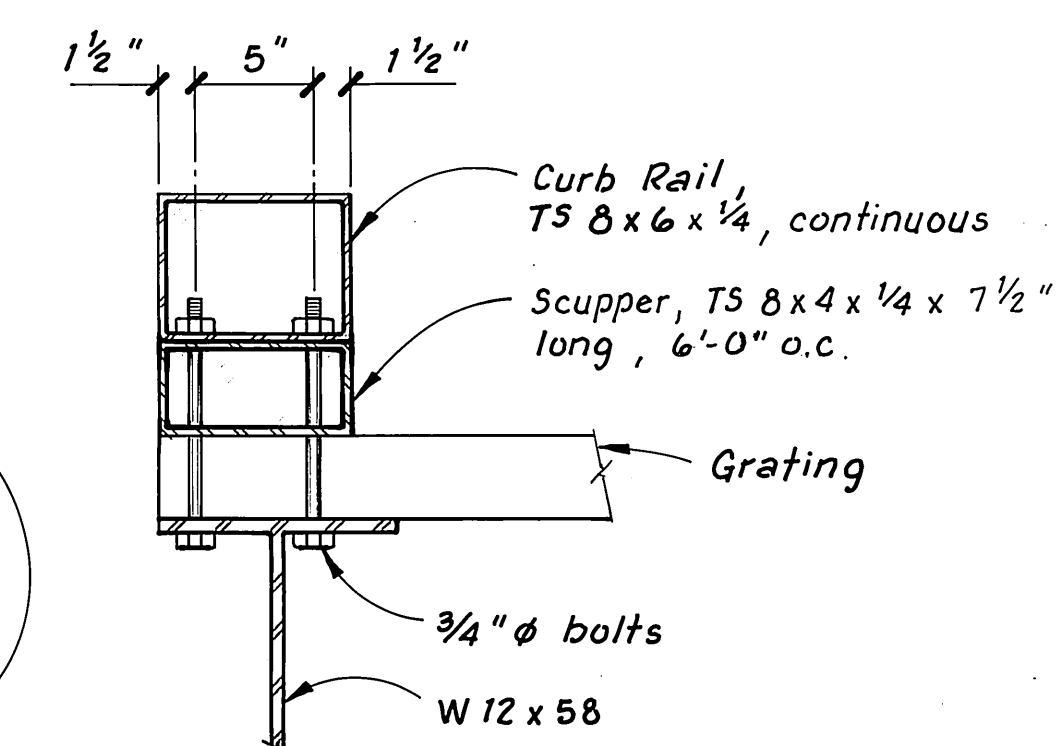
CORBEL
DETAIL "C"
1/2" = 1'-0"



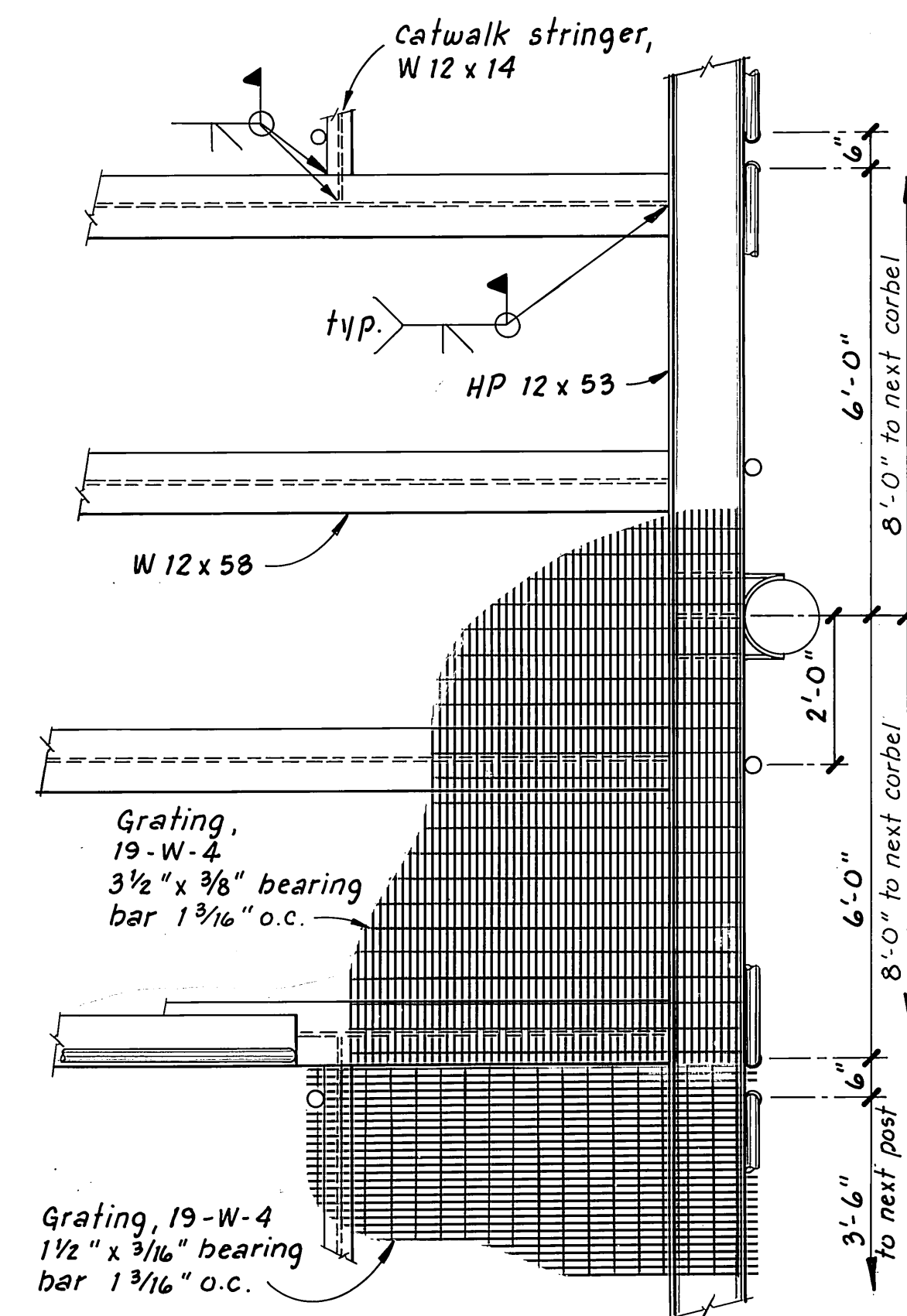
ELEVATION
1/2" = 1'-0"



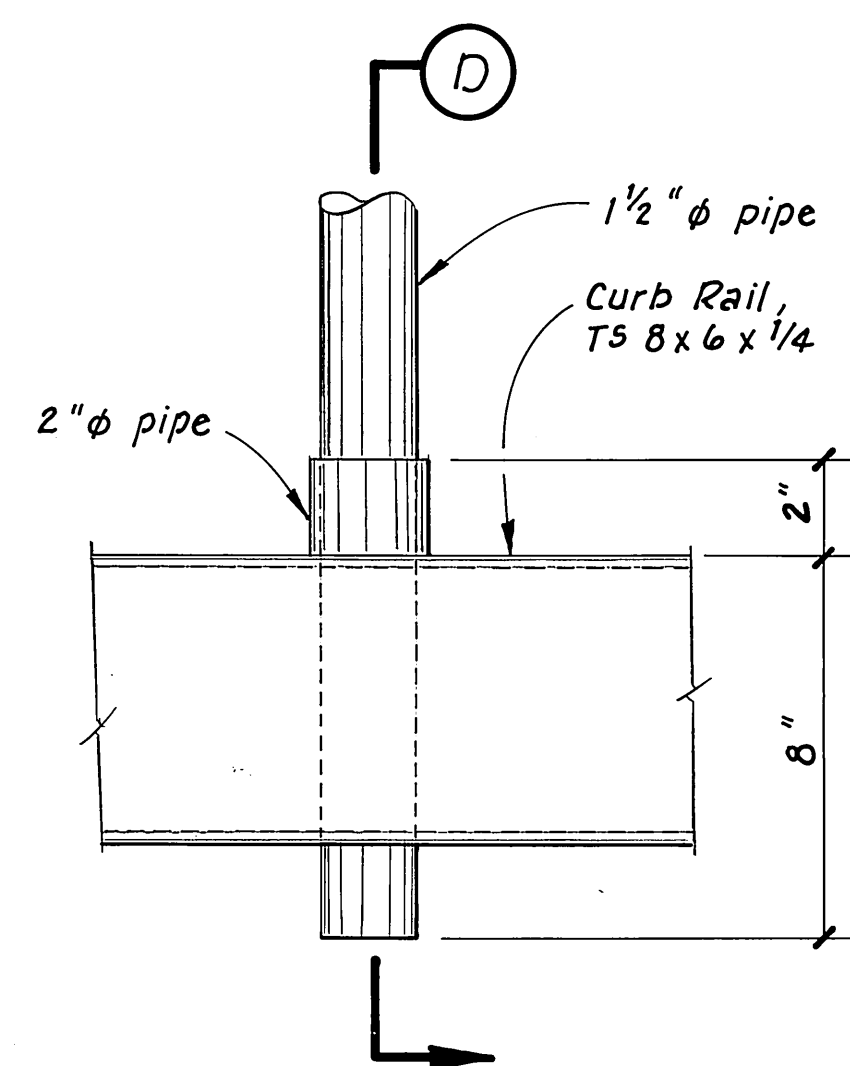
DETAIL "B"
1/2" = 1'-0"



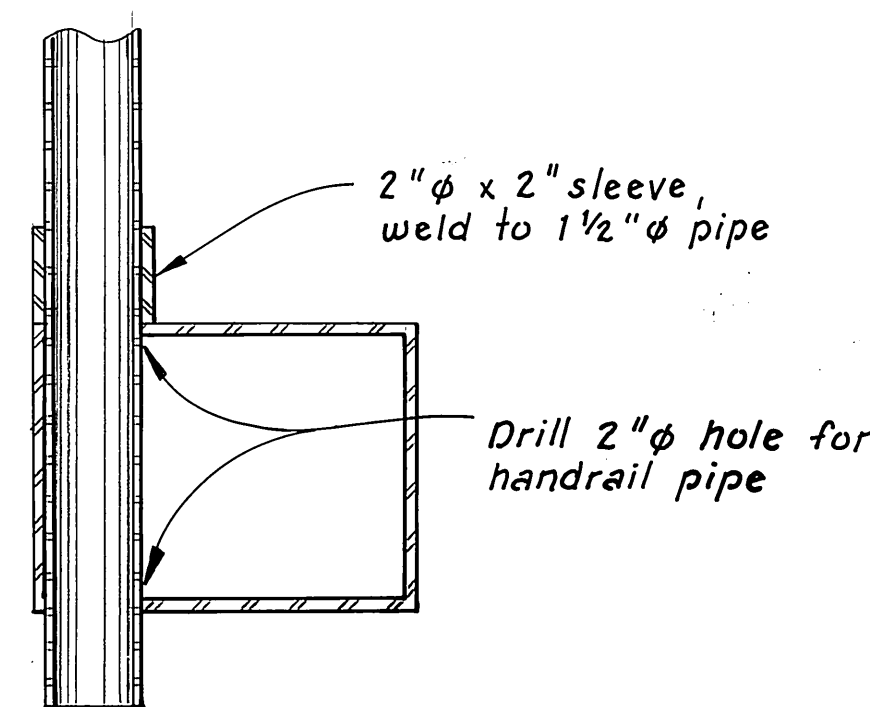
SECTION "E"
1/2" = 1'-0"



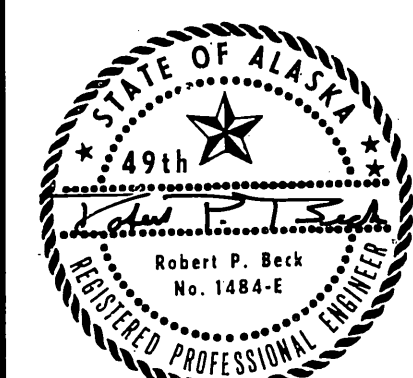
APPROACH / CATWALK
INTERSECTION PLAN
1/2" = 1'-0"



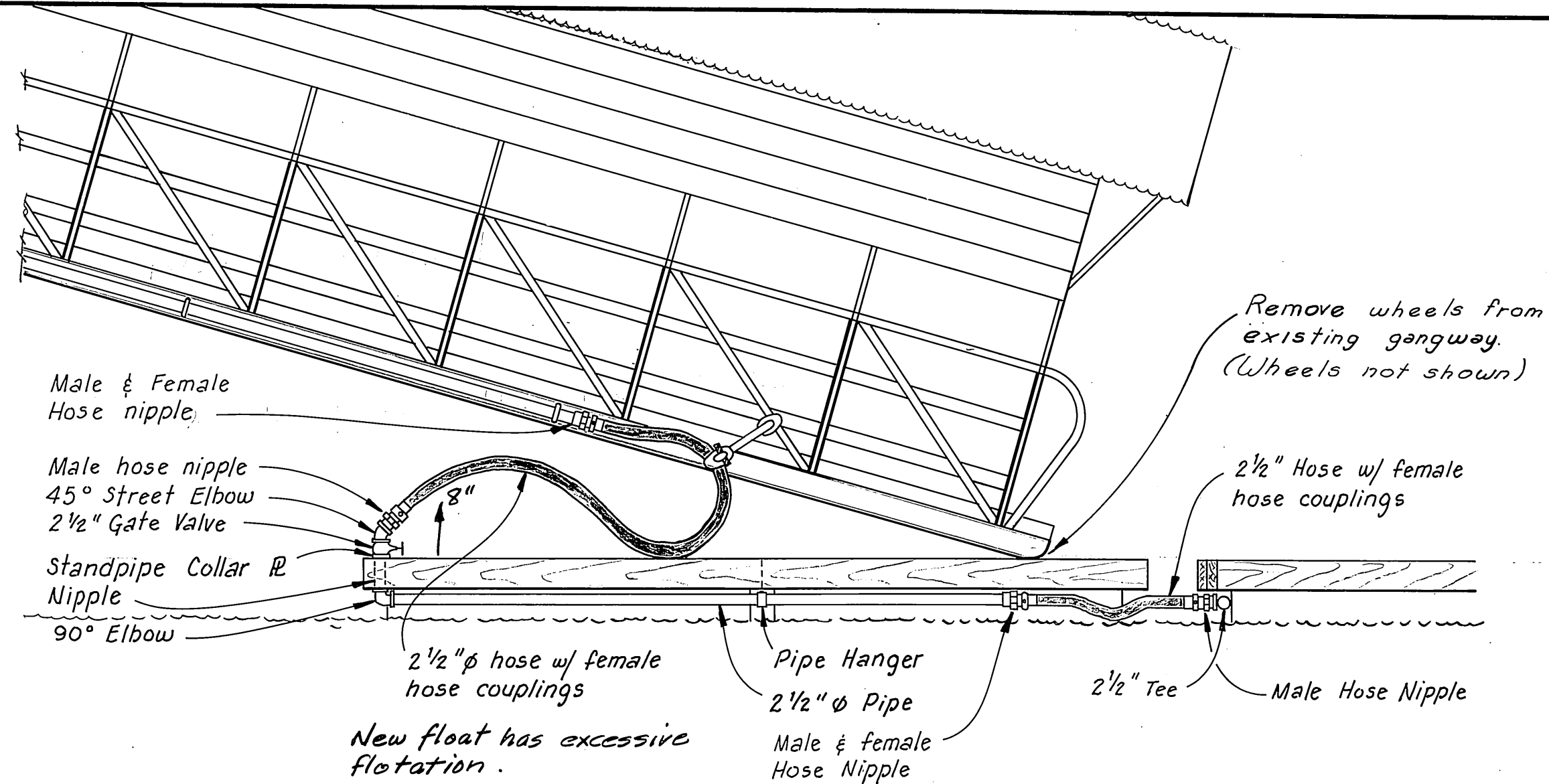
DETAIL "A"
1/2" = 1'-0"



SECTION "D"
1/2" = 1'-0"

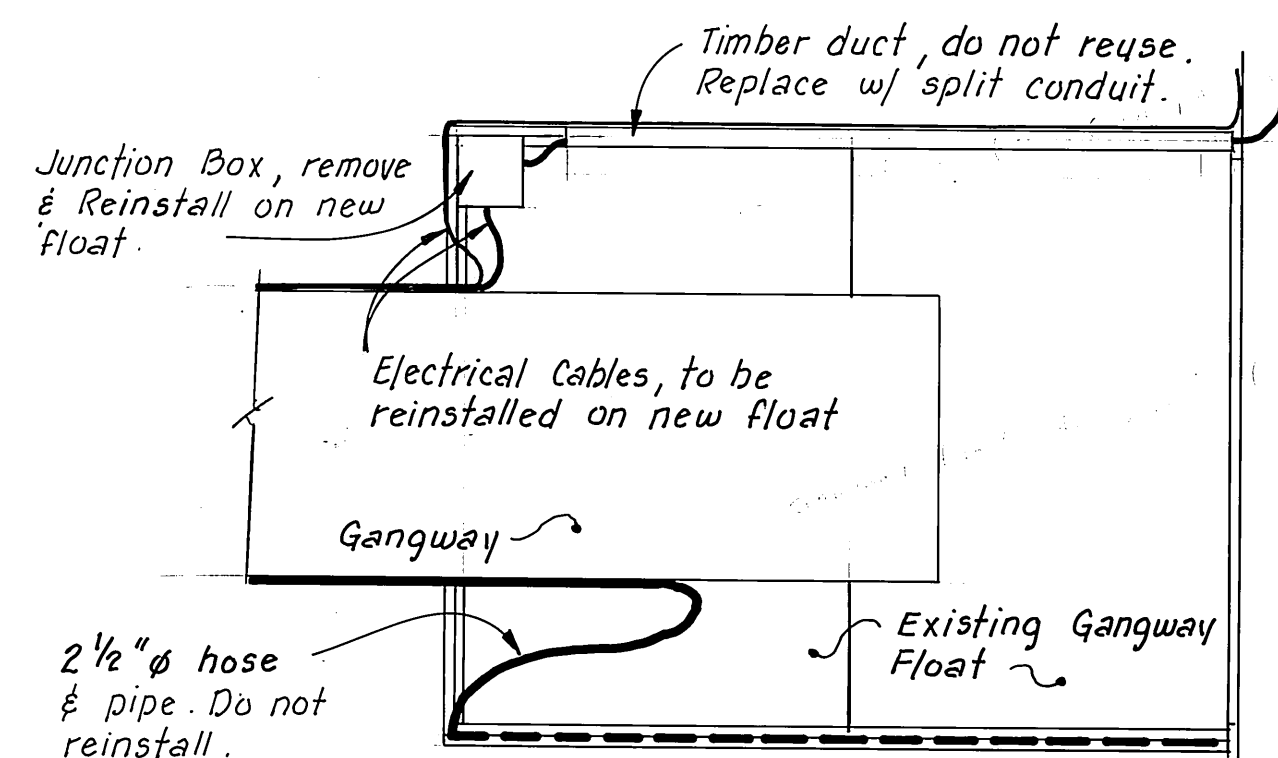
STAMP.		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
		DRIVEABLE GRID APPROACH SUPPLEMENT # 2 (Awarded)	
DESIGNED RPB	CHECKED	DRAWN TS	DATE 6-84
PROJECT NUMBER K-78190		SHEET 52	OF 55

DCW 1-22-87



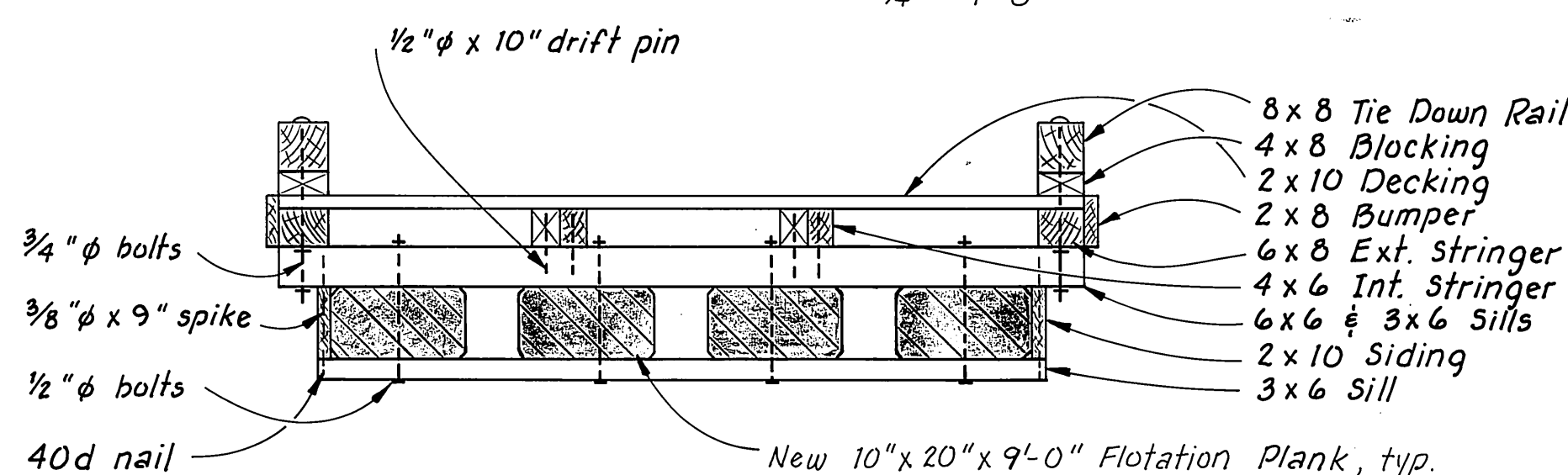
EXISTING WATER SYSTEM ON GANGWAY FLOAT

3/8" = 1'-0"



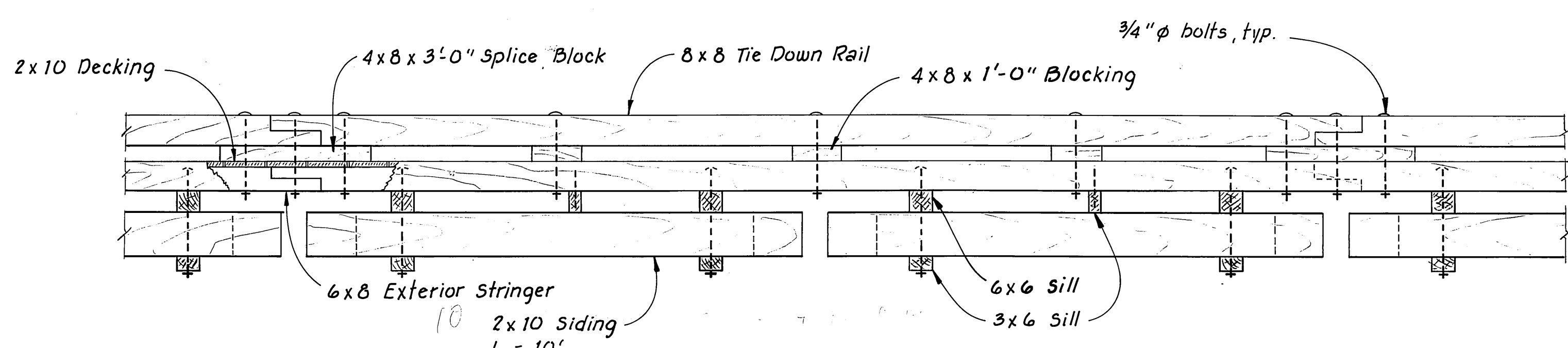
EXISTING UTILITIES ON GANGWAY FLOAT

1/4" = 1'-0"



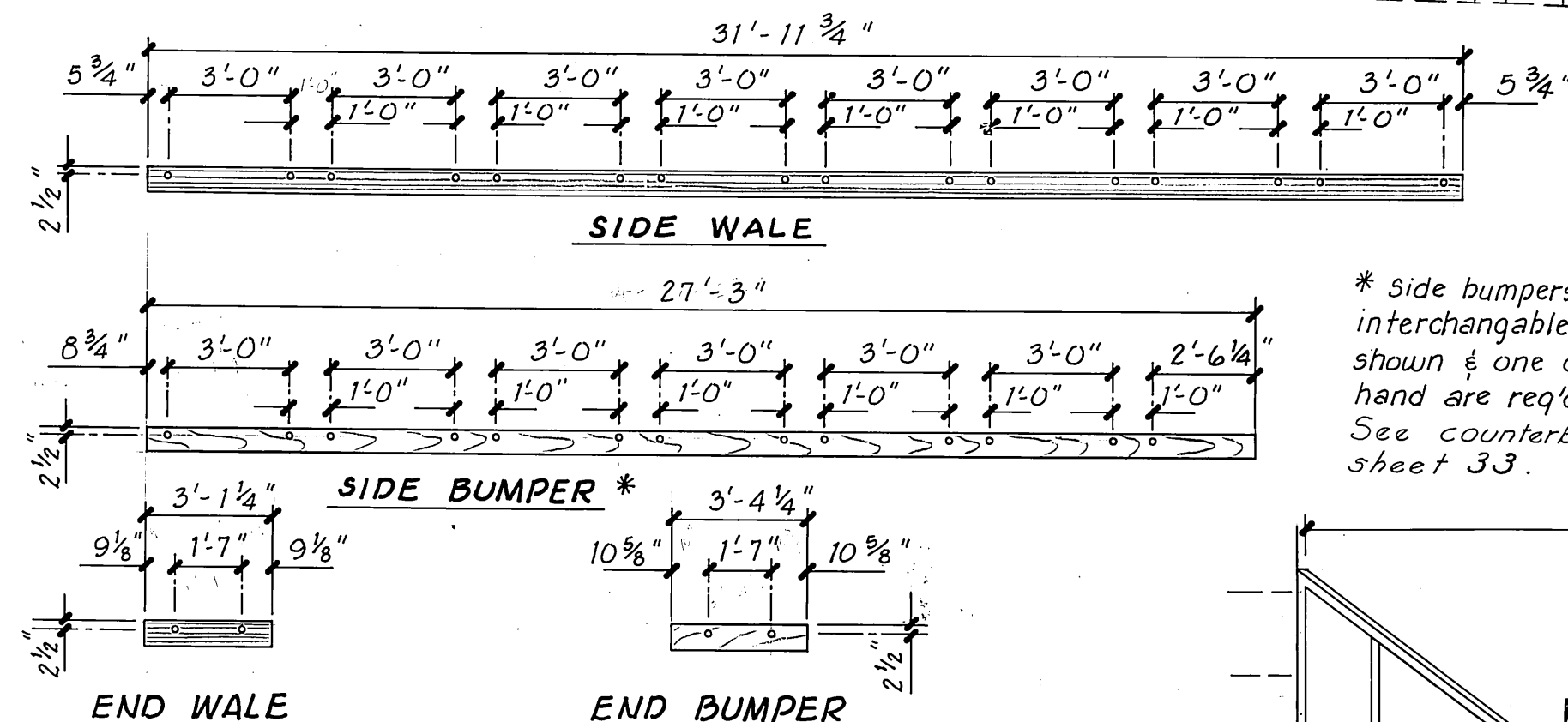
SECTION

1/2" = 1'-0"



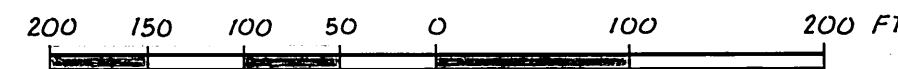
10' WIDE FLOAT ELEVATION

1/2" = 1'-0"

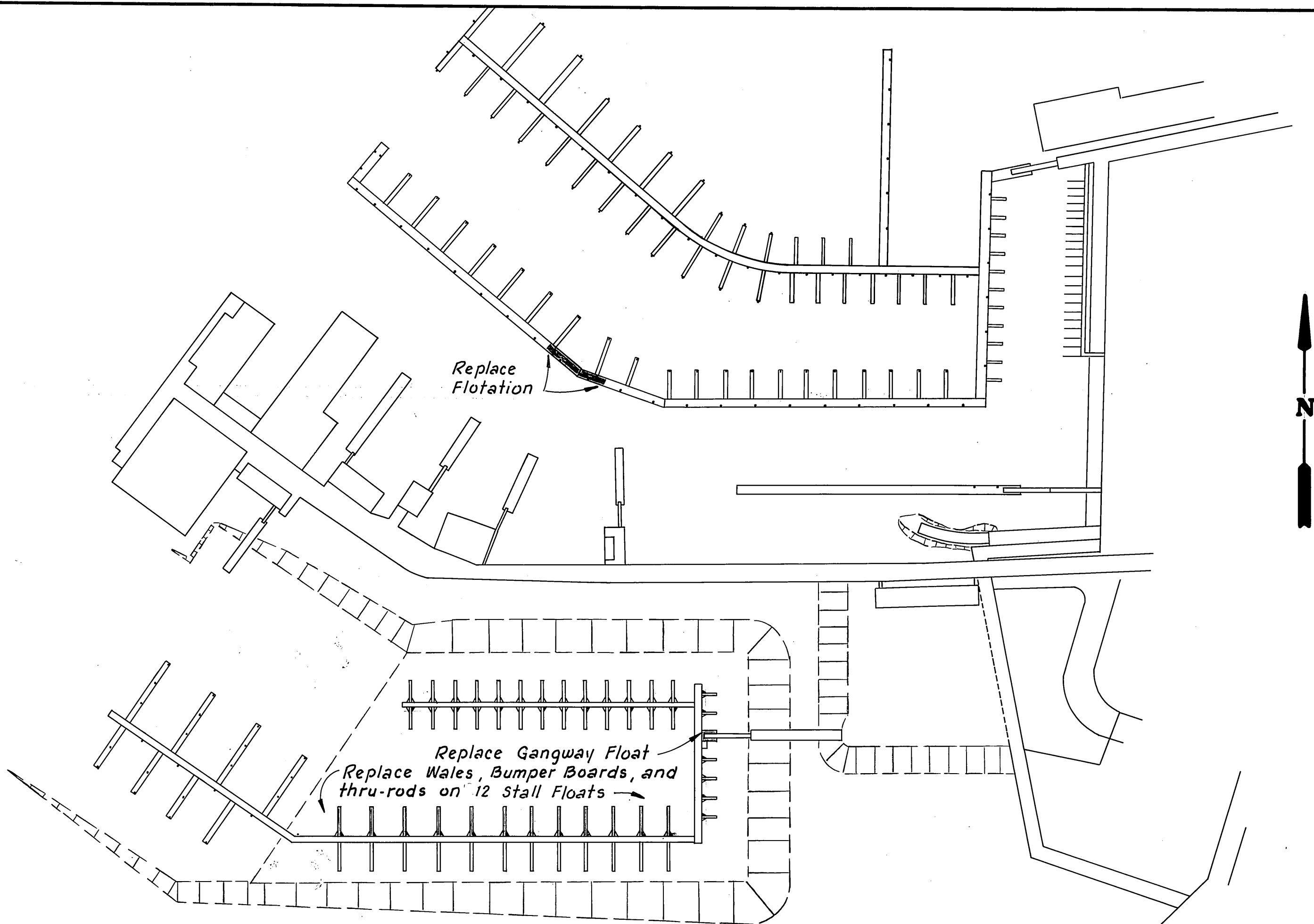


WALE & BUMPER DETAILS FOR 32' STALL FLOAT

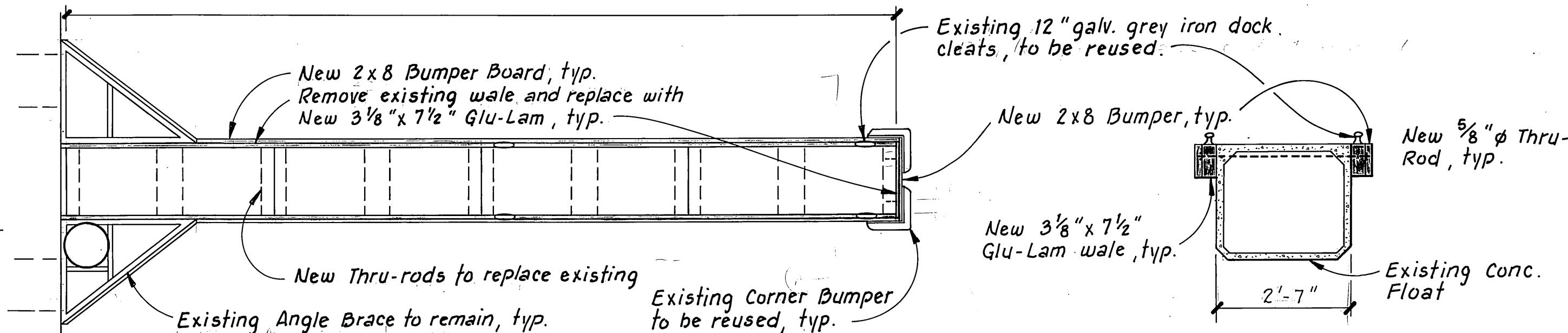
* Side bumpers are not interchangeable. One as shown & one opposite hand are req'd. per stall. See counterbore detail sheet 33.



HARBOR LAYOUTS



NOTE: Shaded areas designate areas of work.

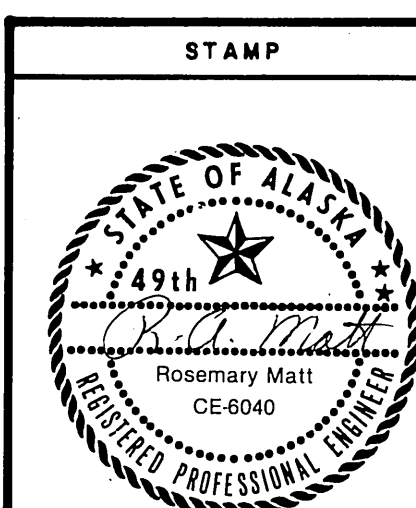


TYP. STALL FLOAT SECTION

1/2" = 1'-0"

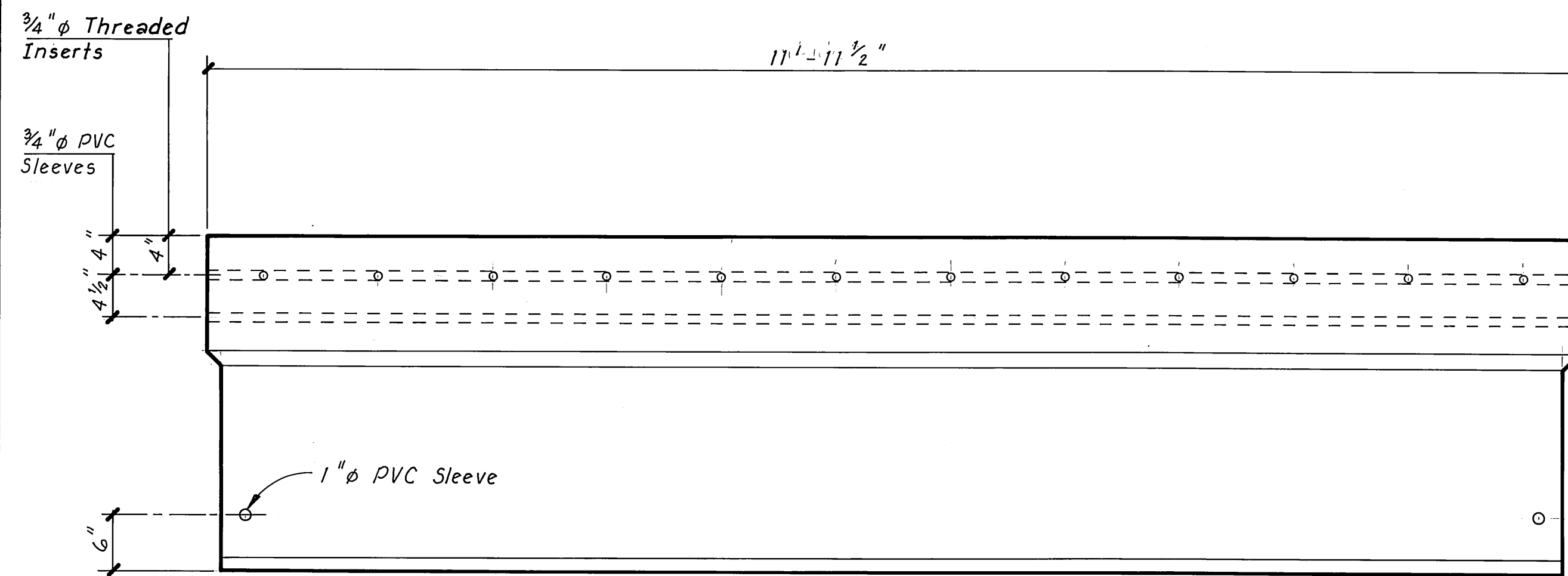
32' STALL FLOAT PLAN

1/4" = 1'-0"

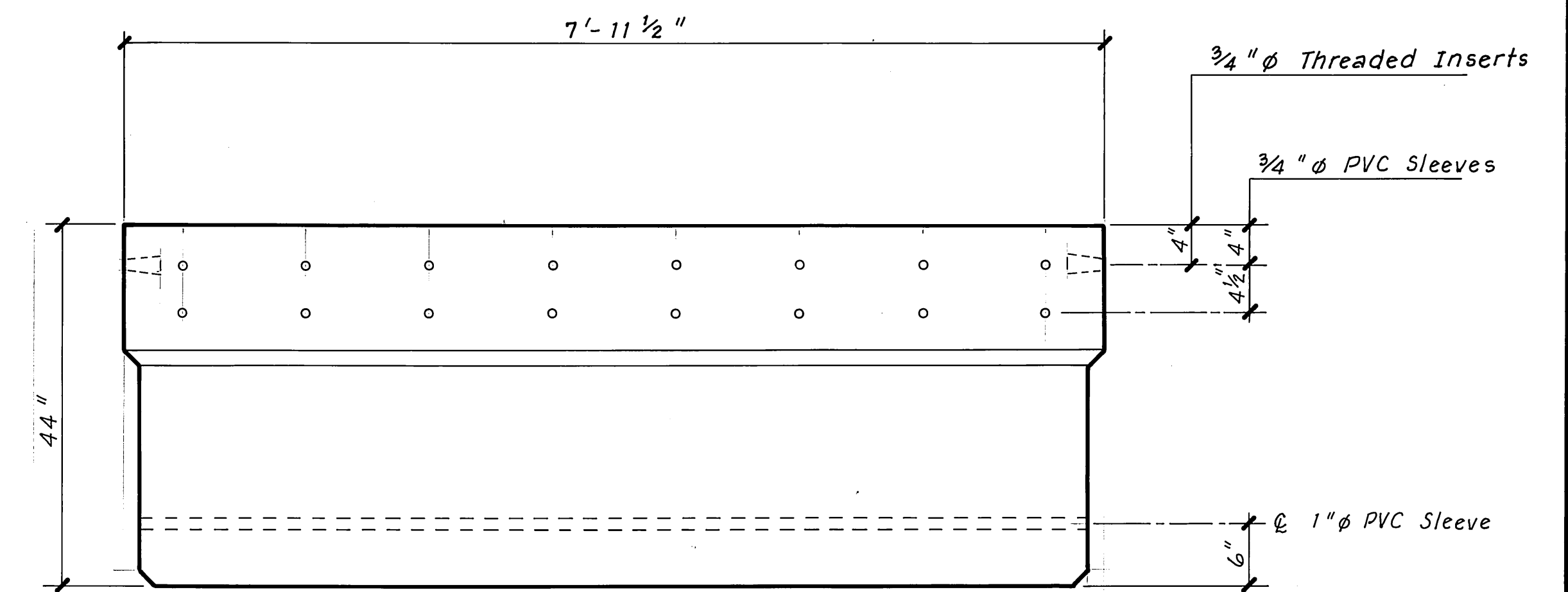


DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
LAYOUT AND DETAILS FOR SUPPLEMENT # 3 WORK ITEMS			
DESIGNED <u>RAM</u>	CHECKED _____	DRAWN <u>TS</u>	DATE <u>6-84</u>
PROJECT NUMBER <u>K-78190</u>	SHEET <u>533</u> OF <u>55</u>		

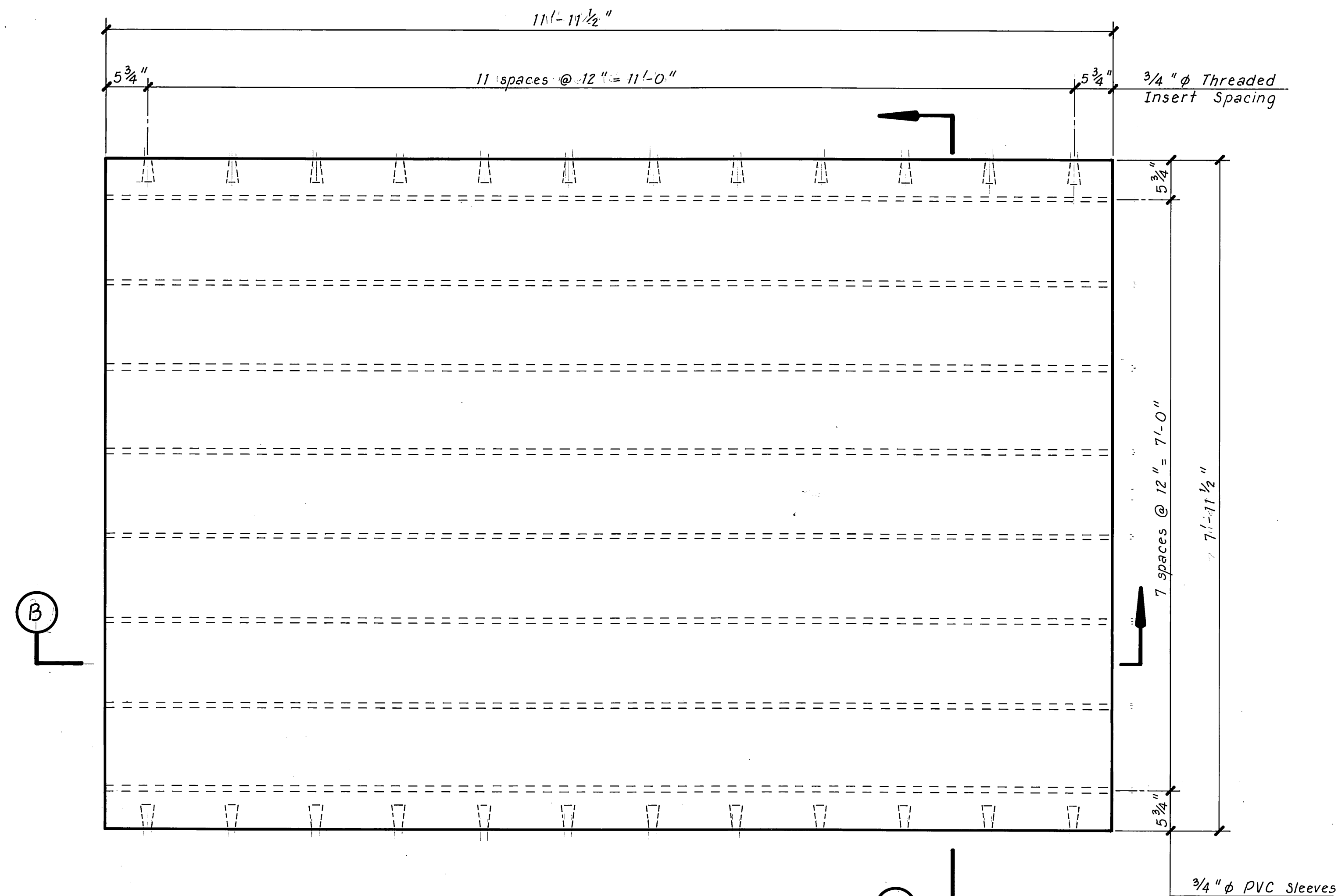
DCW 1-22-87



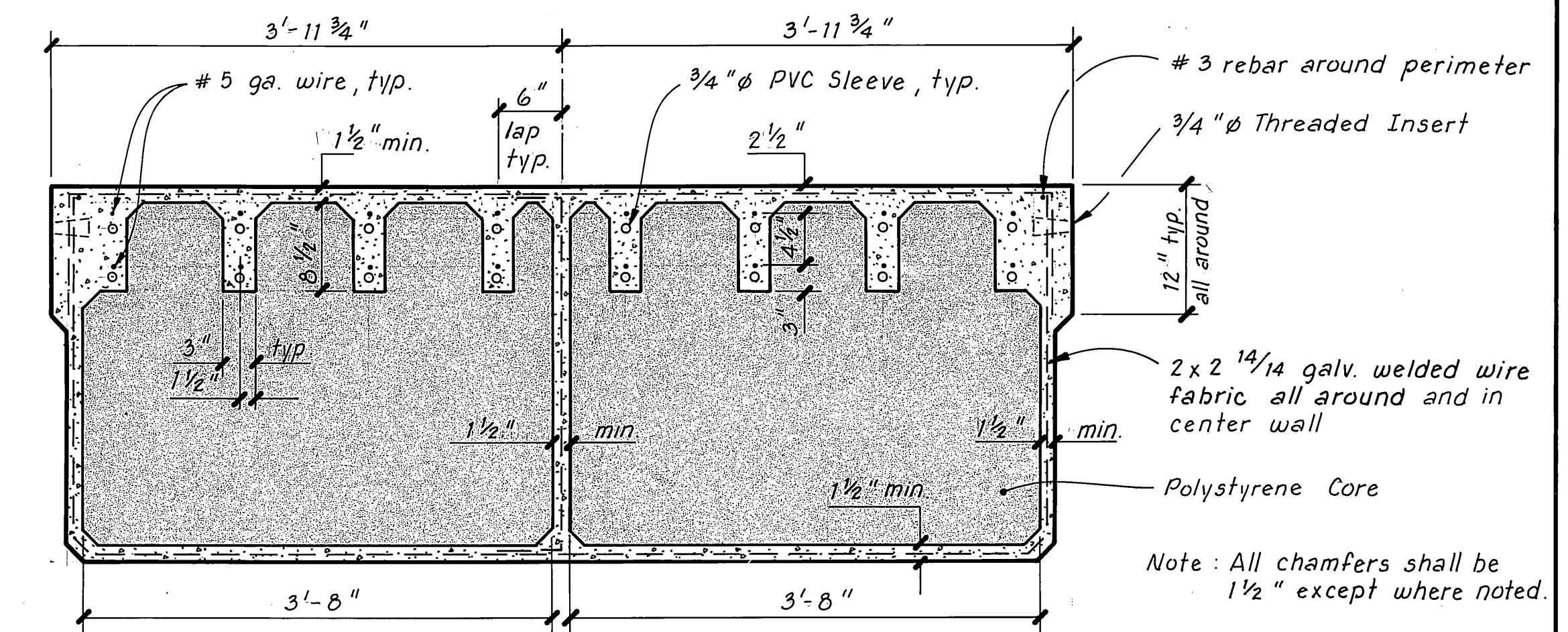
SIDE ELEVATION
1" = 1'-0"



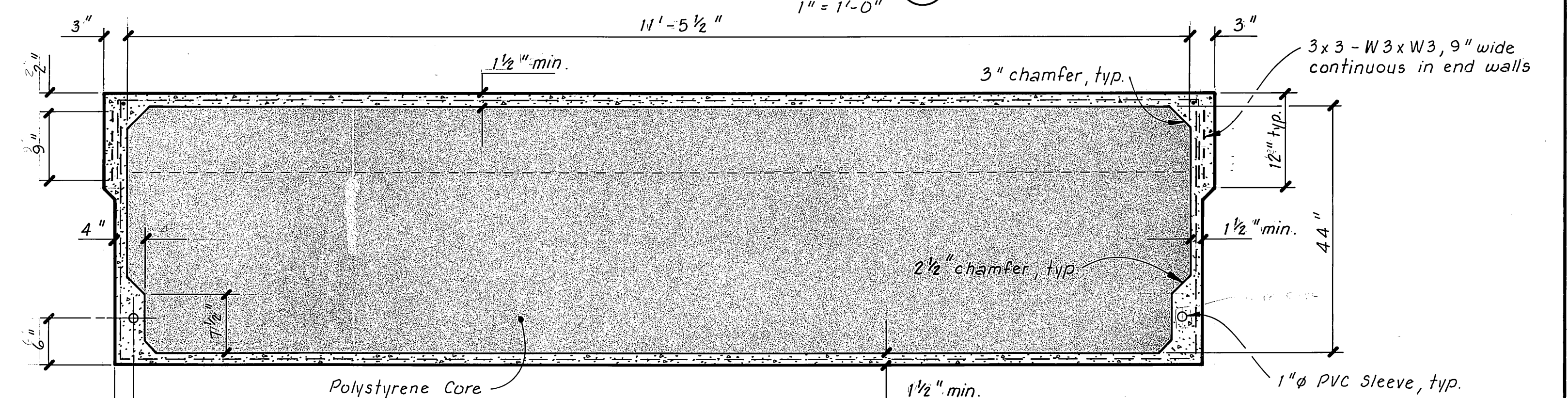
END ELEVATION
1" = 1'-0"



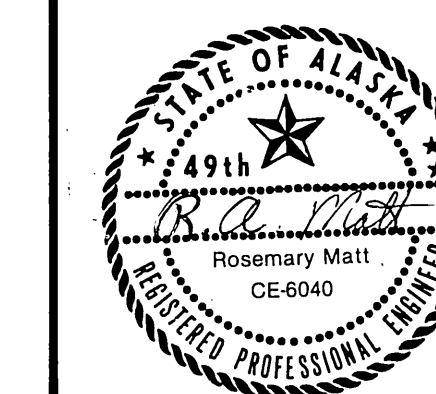
PLAN
1" = 1'-0"



SECTION A
1" = 1'-0"

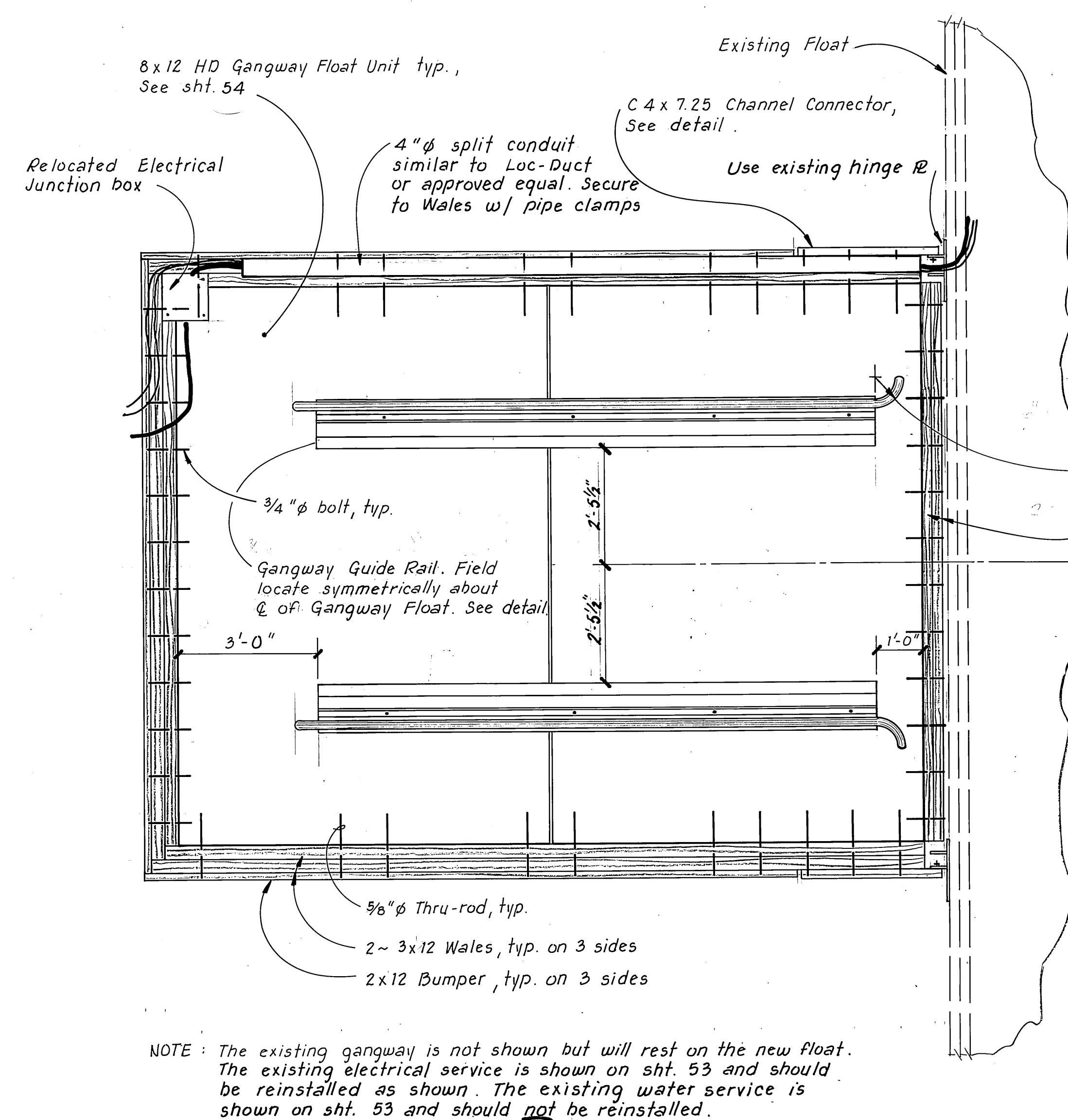


SECTION B
1" = 1'-0"



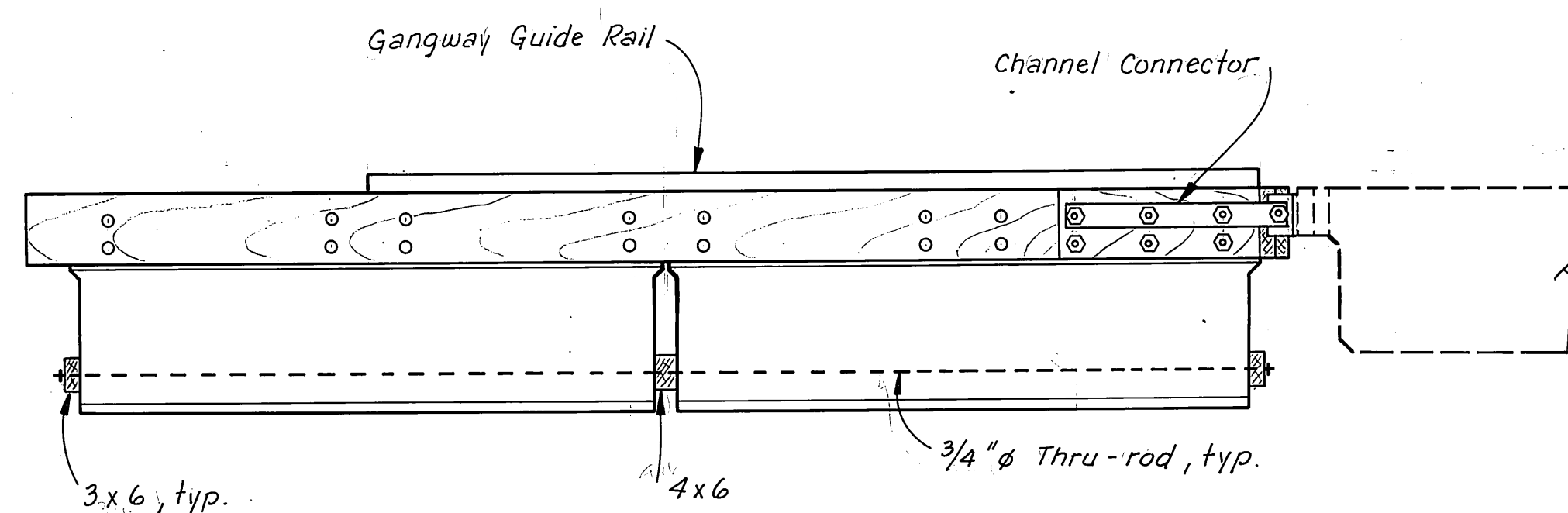
DCW 1-22-87

STAMP			
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
8'x12' HD GANGWAY FLOAT			
DESIGNED <u>staff</u>	CHECKED _____	DRAWN <u>TS</u>	DATE <u>7/84</u>
PROJECT NUMBER _____	SHEET <u>54</u> OF <u>55</u>		



PLAN VIEW

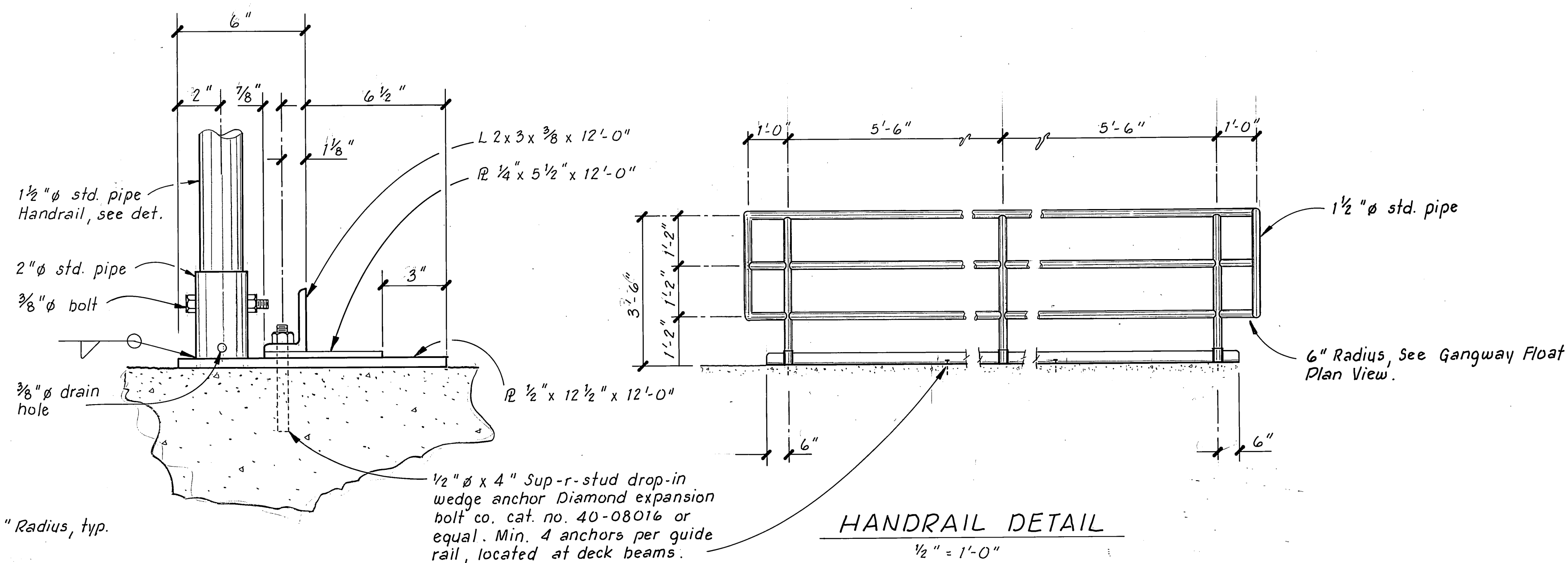
$\frac{1}{2}'' = 1'-0''$



ELEVATION
 $\frac{1}{2}'' = 1'-0''$

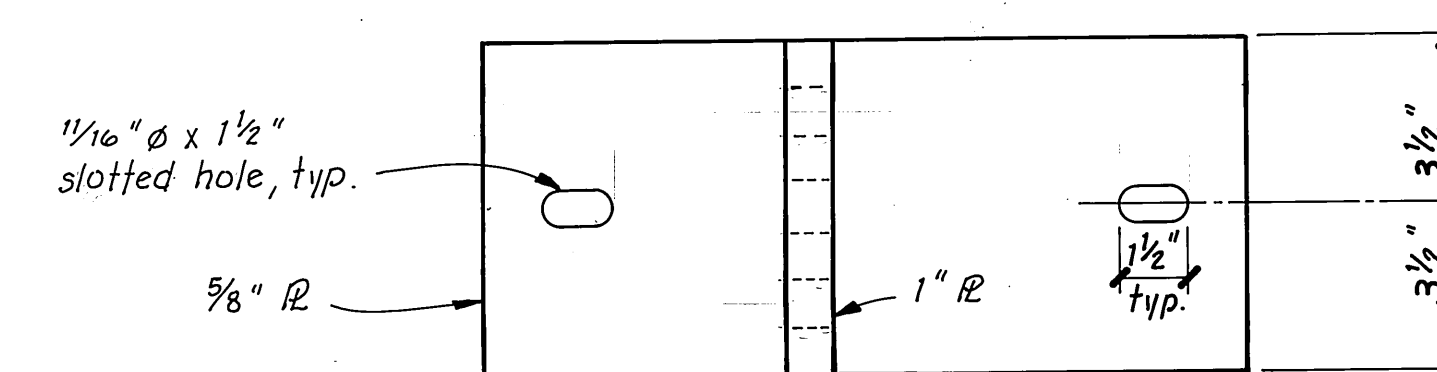
GANGWAY FLOAT DETAILS

GANGWAY FLOAT DETAILS

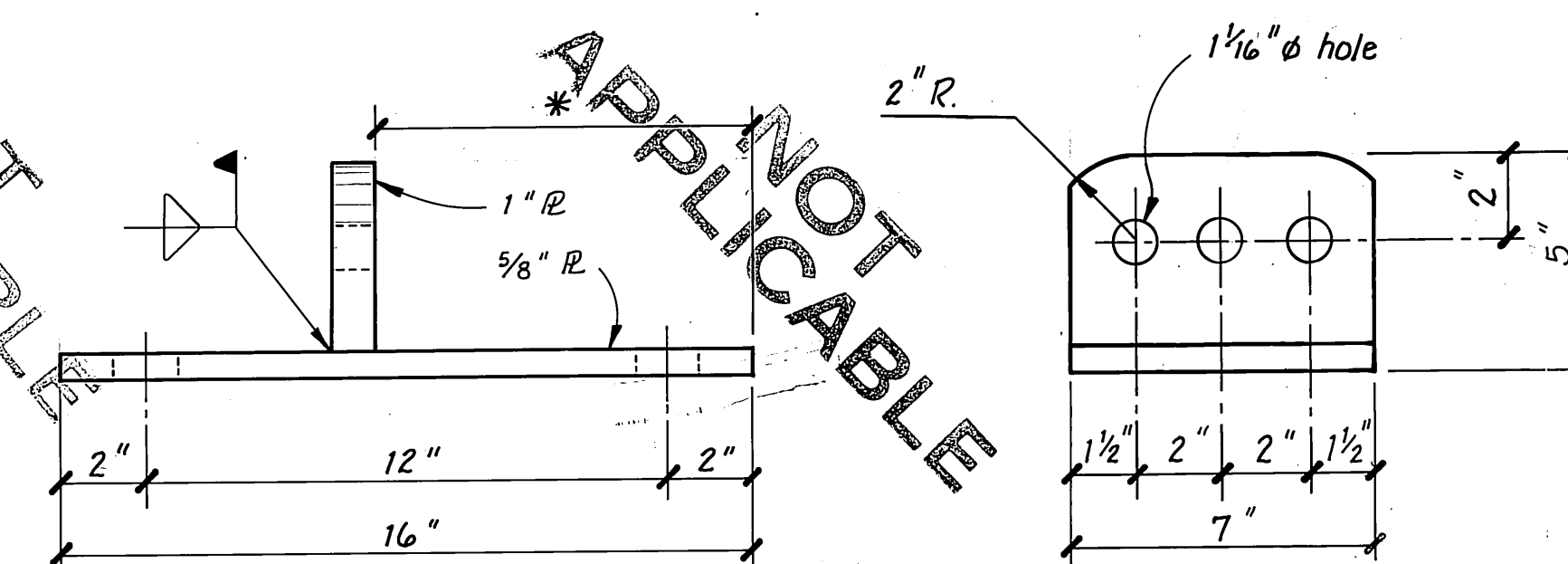


GANGWAY GUIDE RAIL DETAIL

3" = 1'-0"

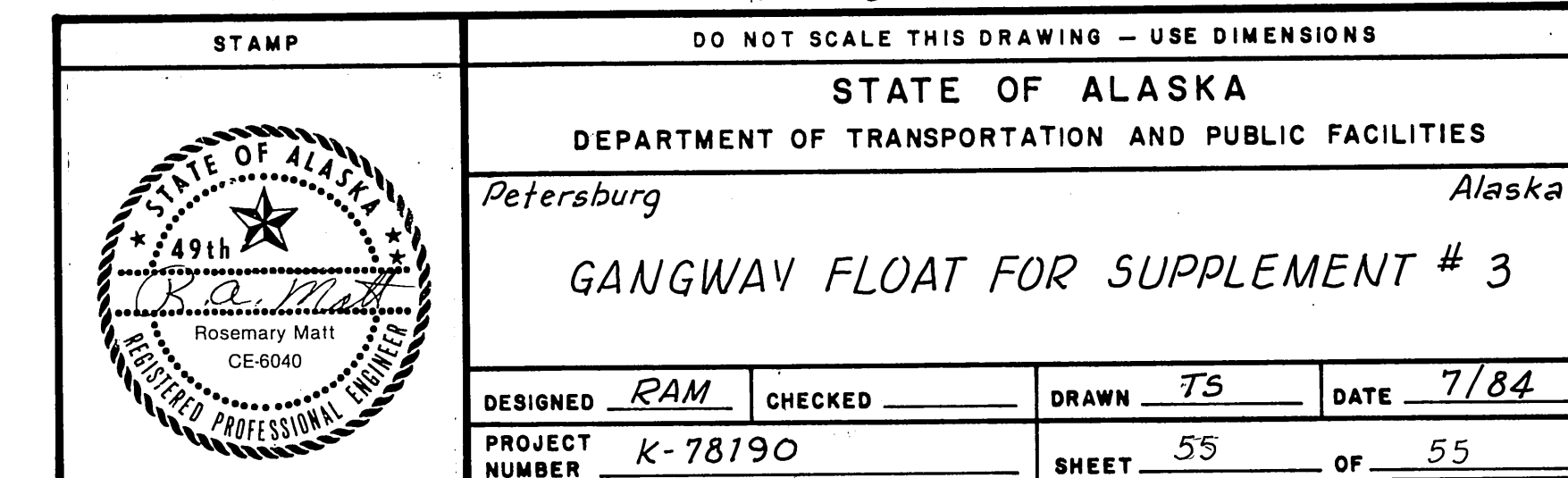
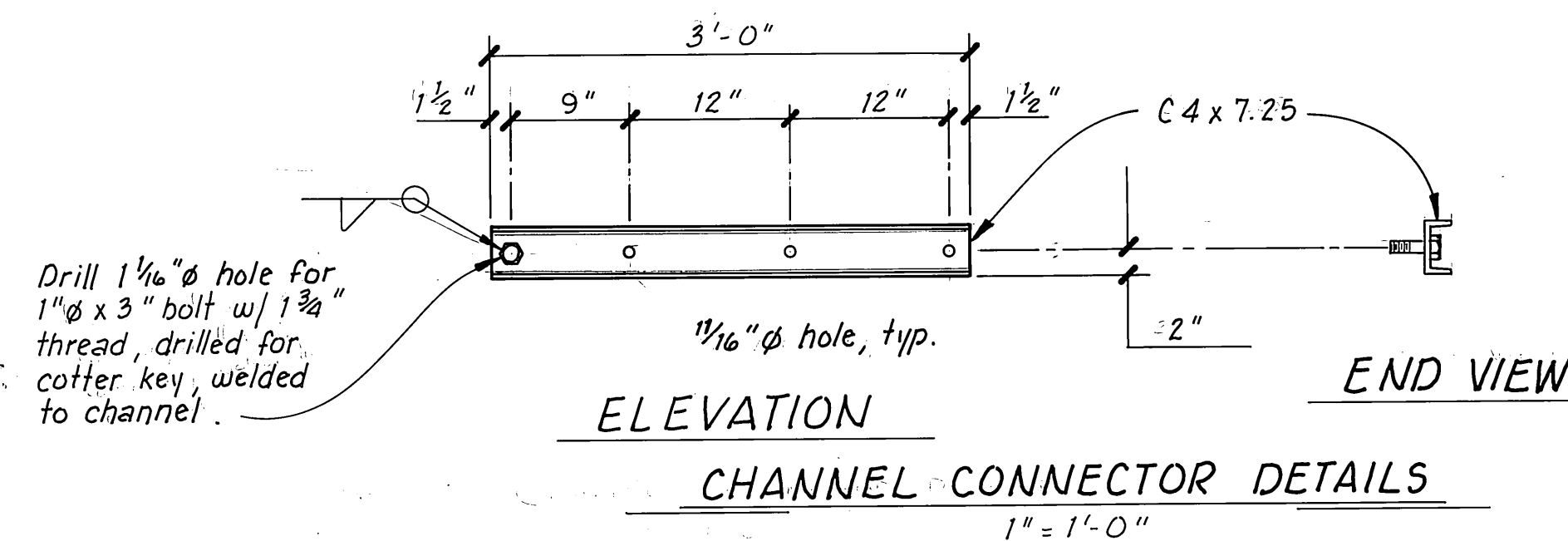


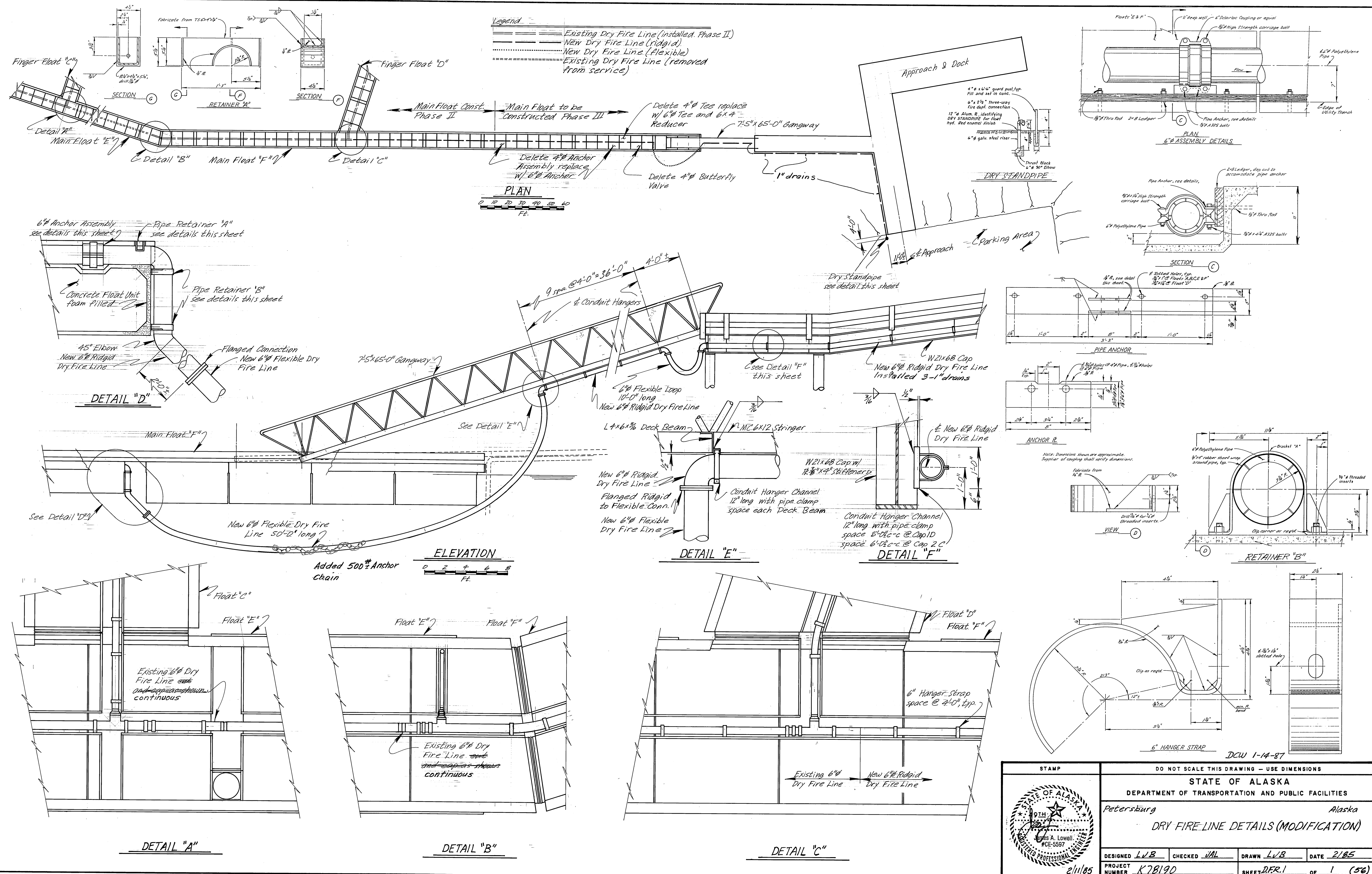
* Field locate 1" R on Hing R so the C of the existing gangway is in line with the C of the new gangway float

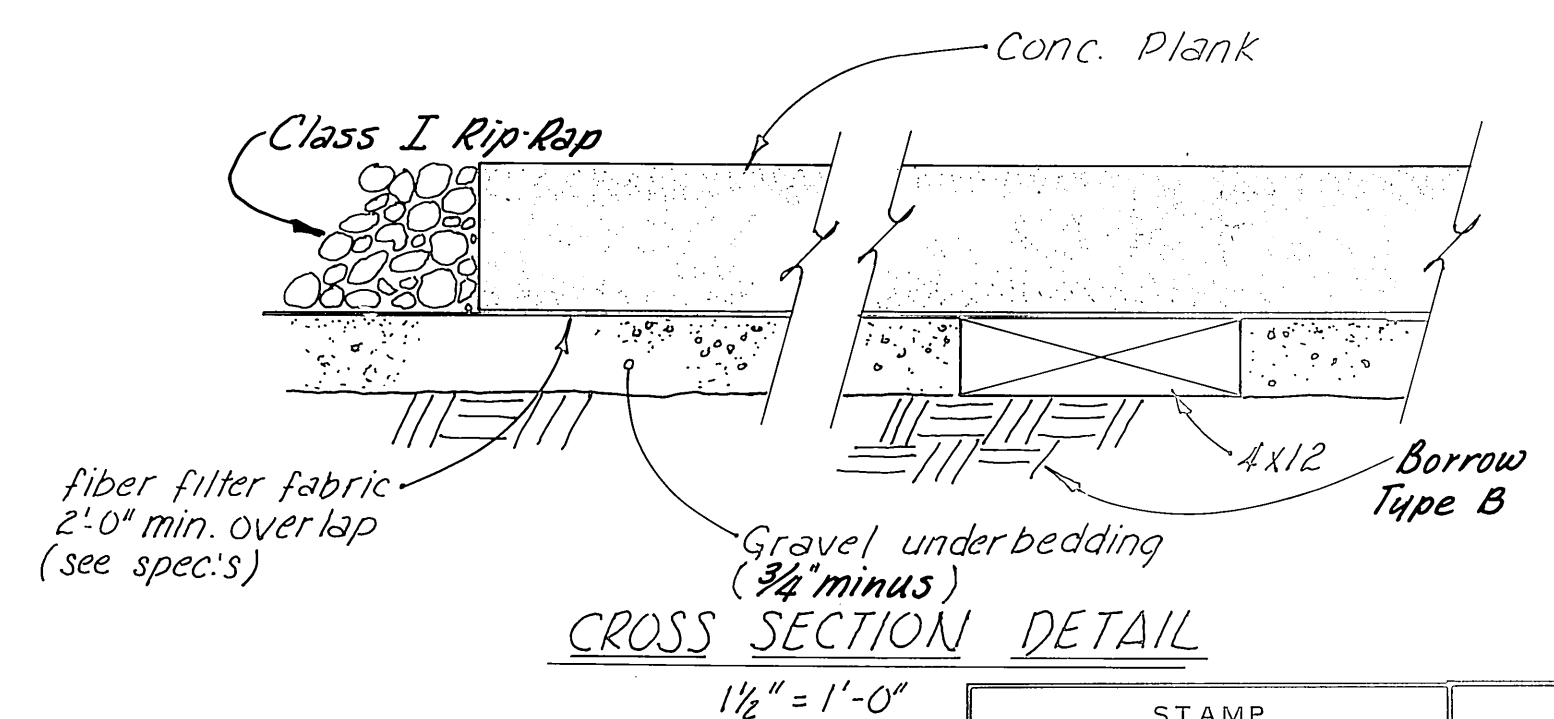
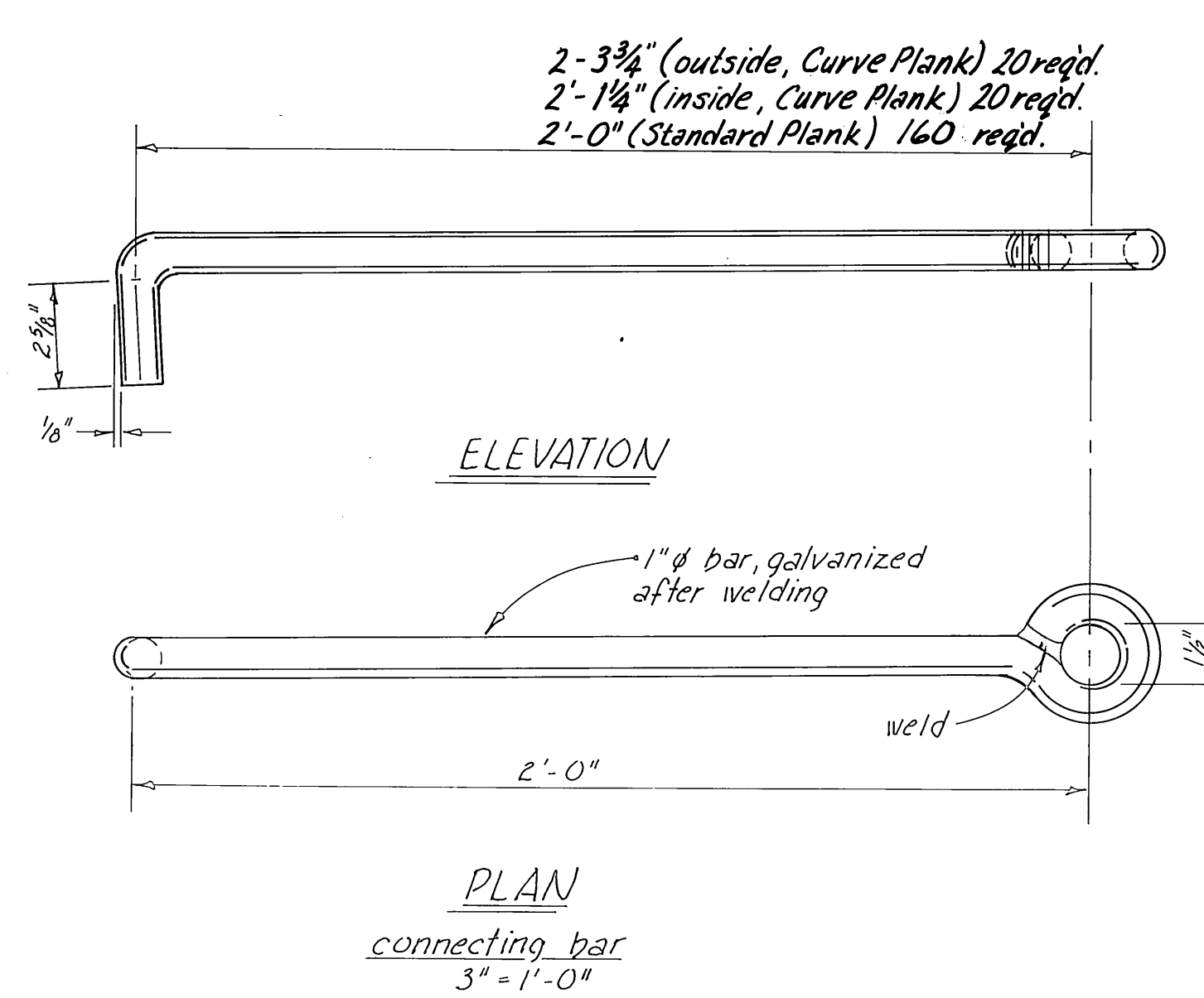
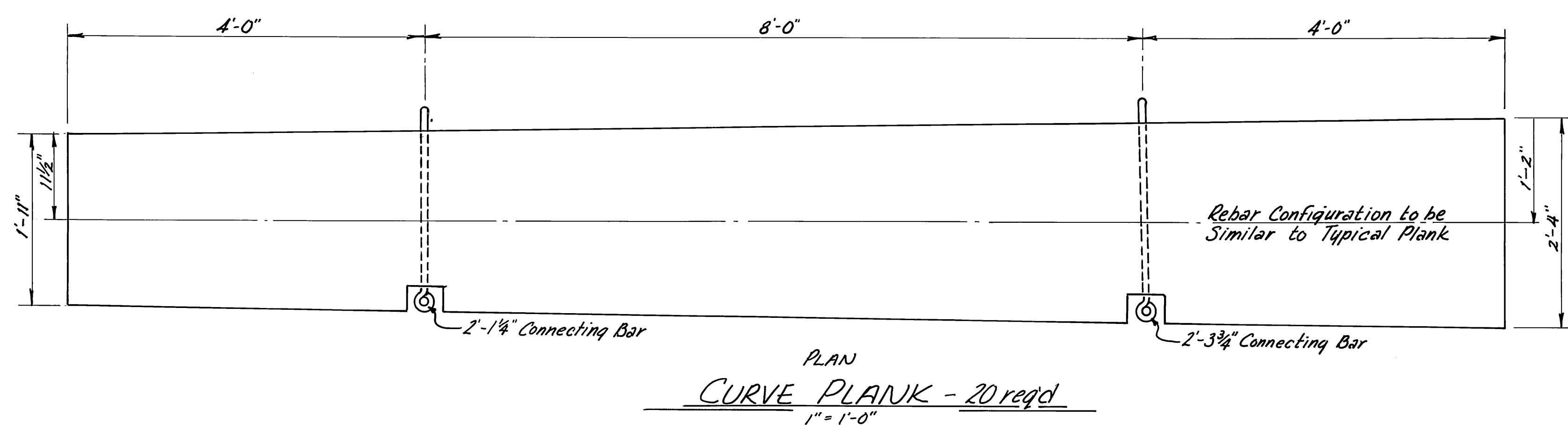
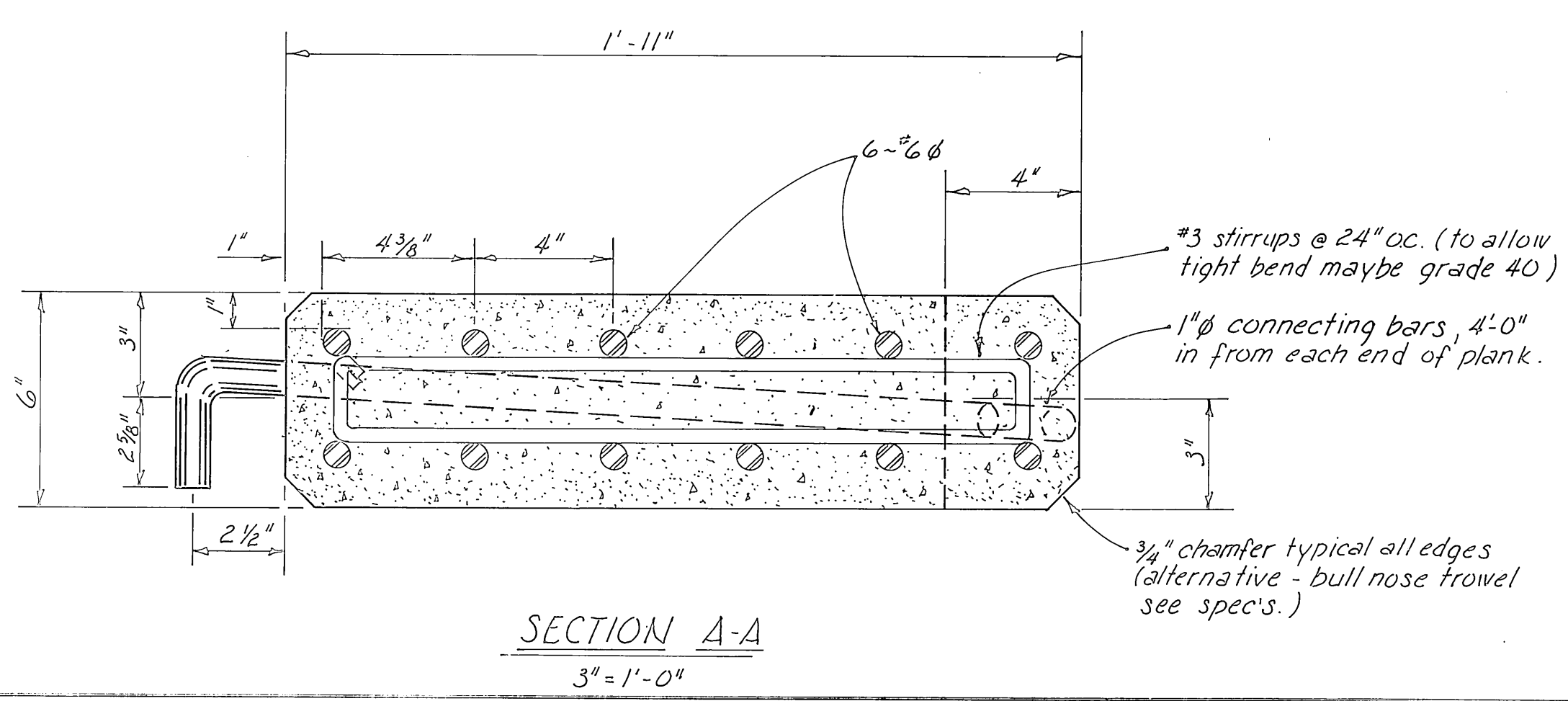
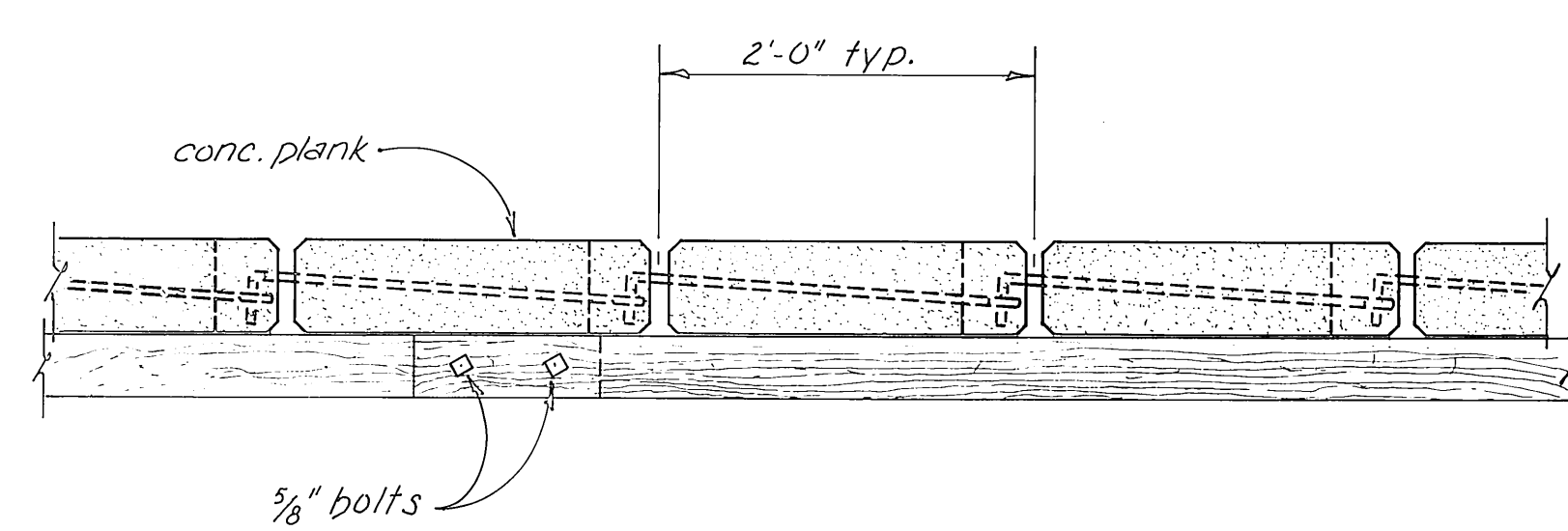
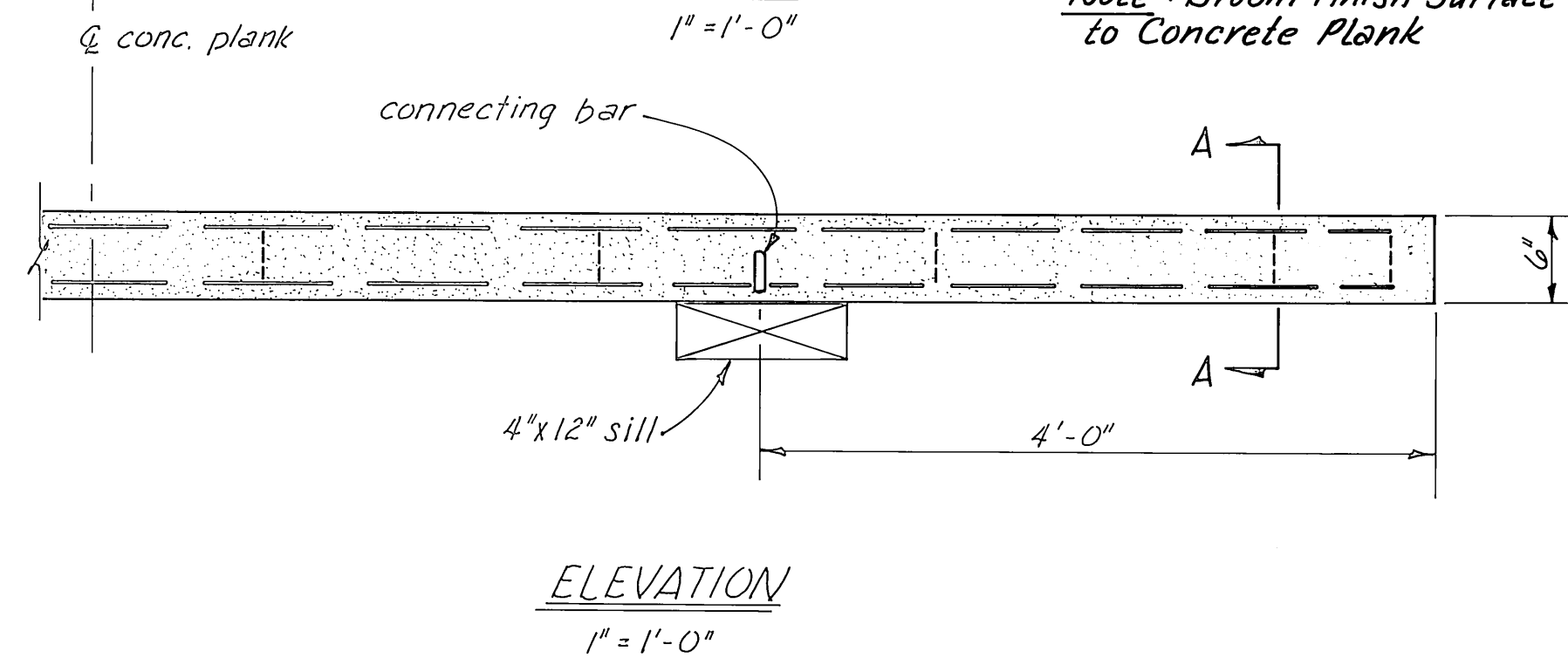
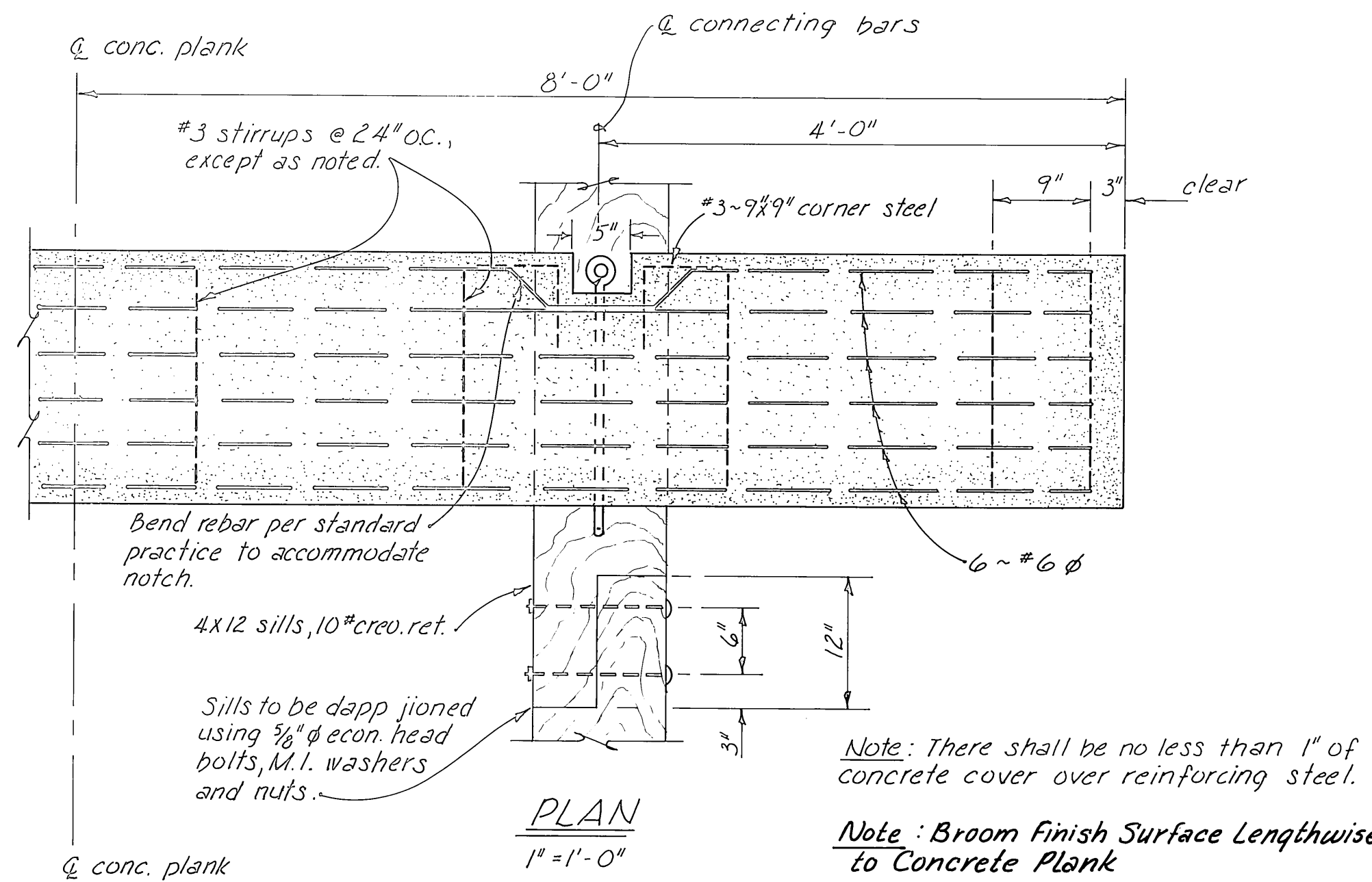


HINGE & DETAILS
3" = 1'-0"

DCW 1-22-87

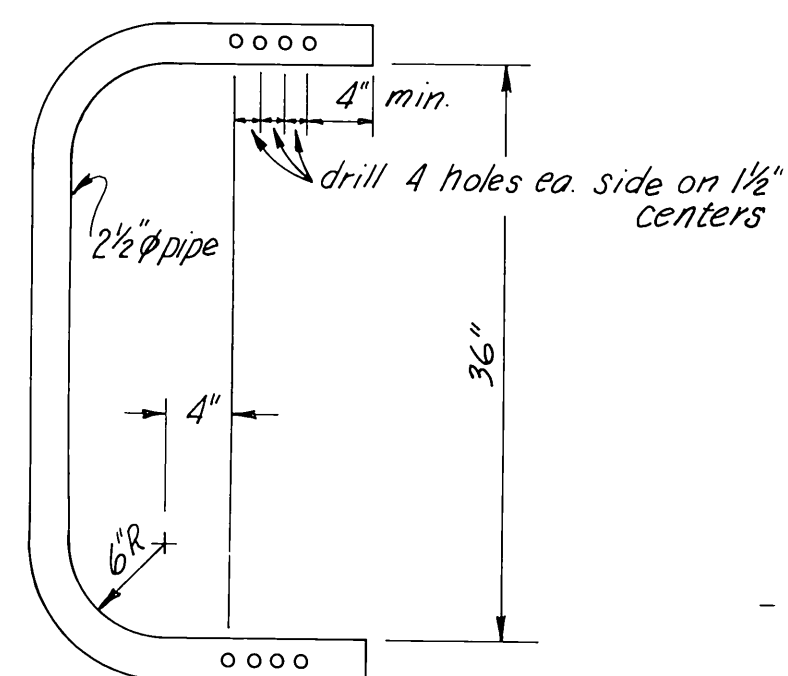






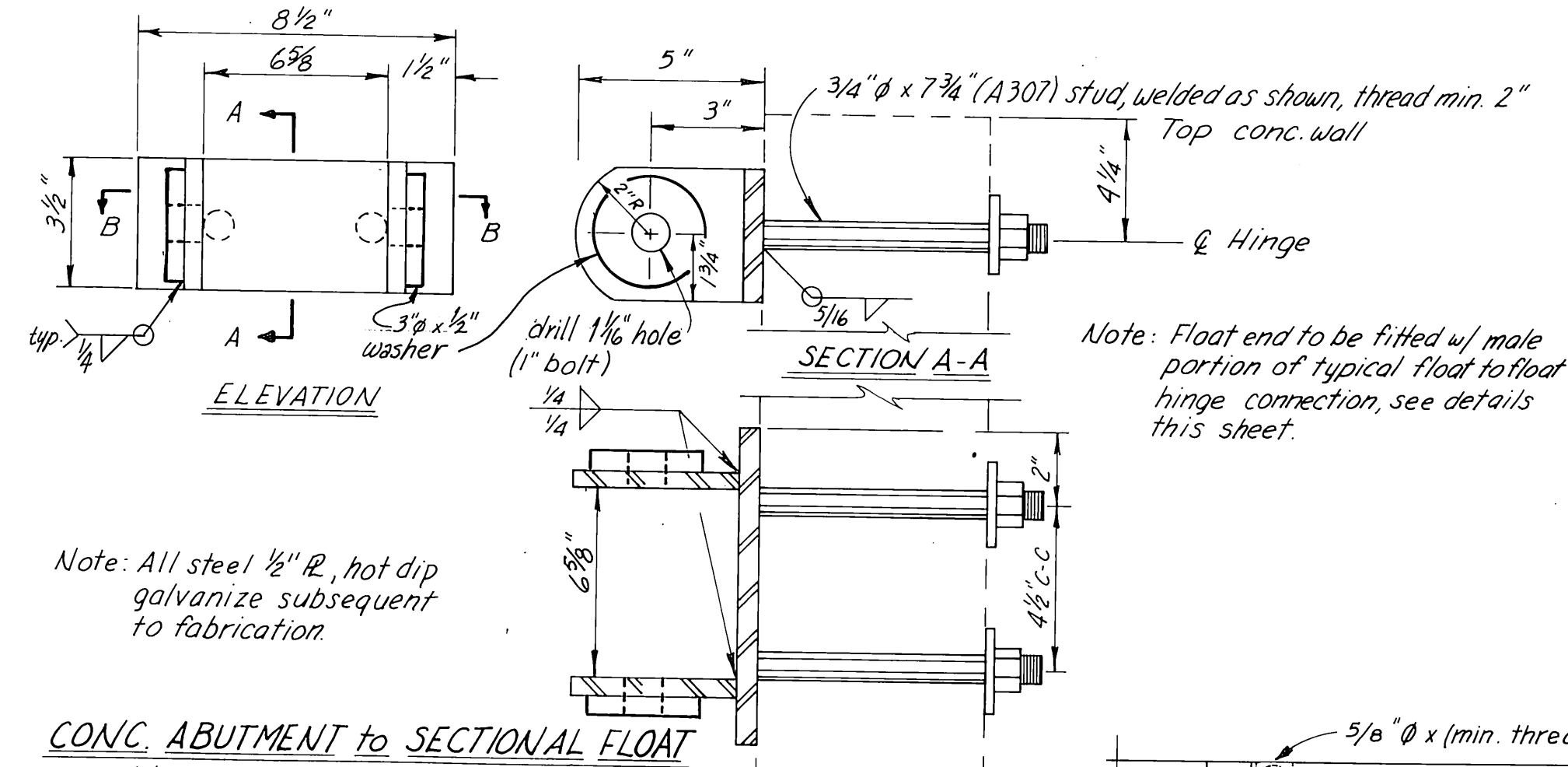
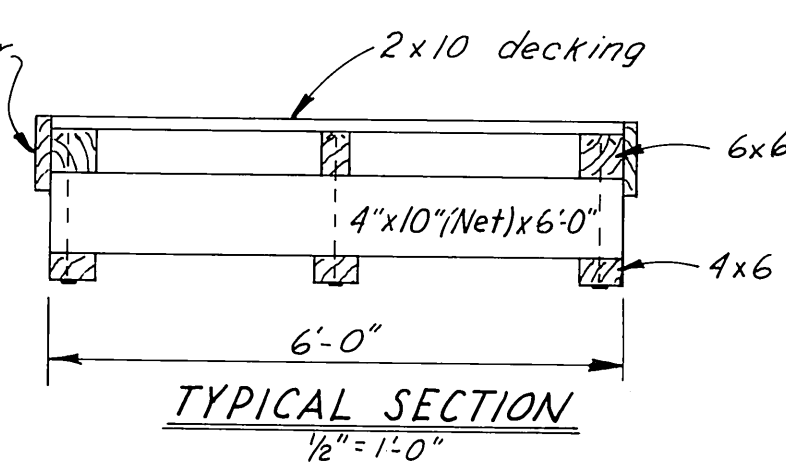
Note: Concrete $f_c \geq 5000$ psi
Reinforcing steel $f_y = 60,000$ psi

DCW 1-14-87		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
PETERSBURG ALASKA LAUNCH RAMP DETAILS		
SCALE As Noted	SURVEYED	APPROVED
DESIGNED	DRAWN G.R.F.	
CHECKED W.M.N.	DATE Dec. 1978	DIRECTOR
PROJECT NUMBER K31901	SHEET 14R2 OF 4 (58)	

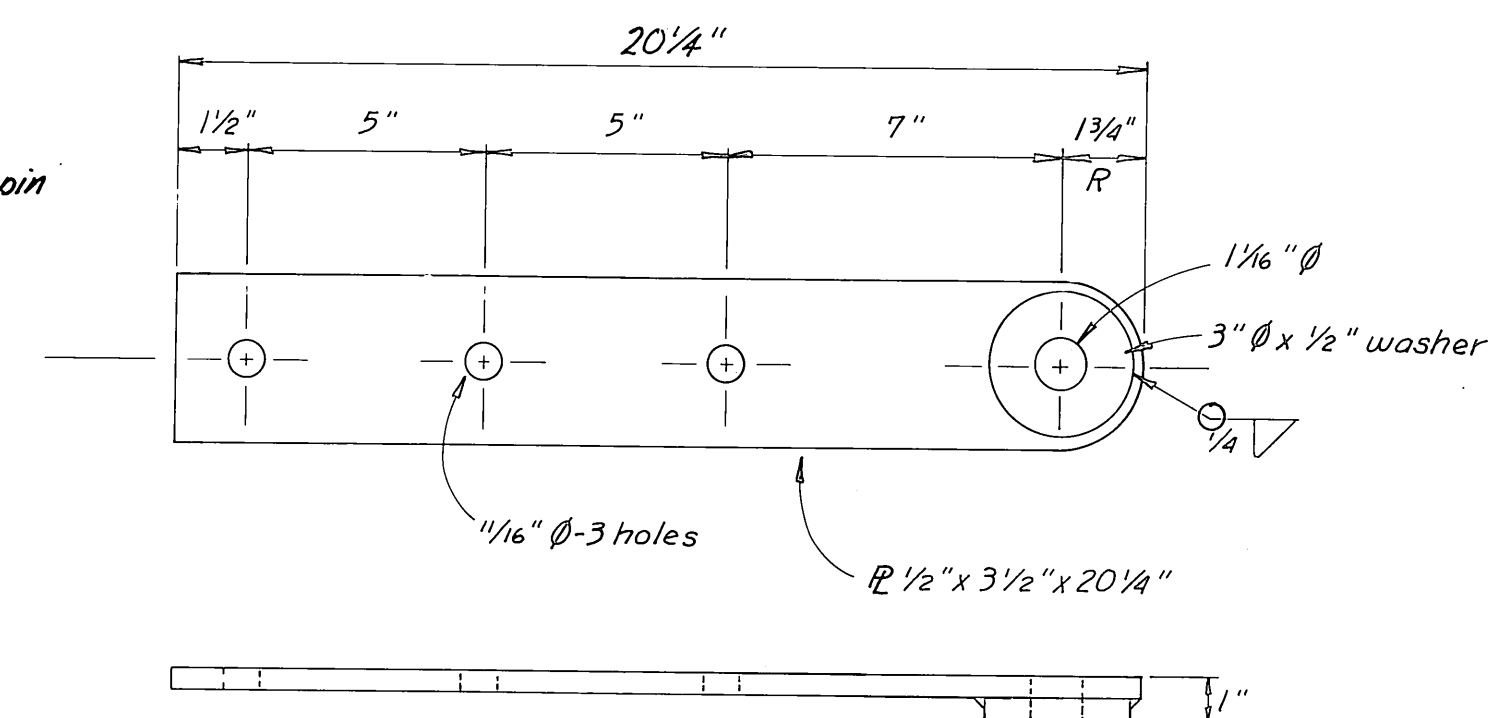


Note: All pile collars shall be secured in relation to the piling @ low tide as shown in order to permit maximum horizontal float travel during flood stage of tide.

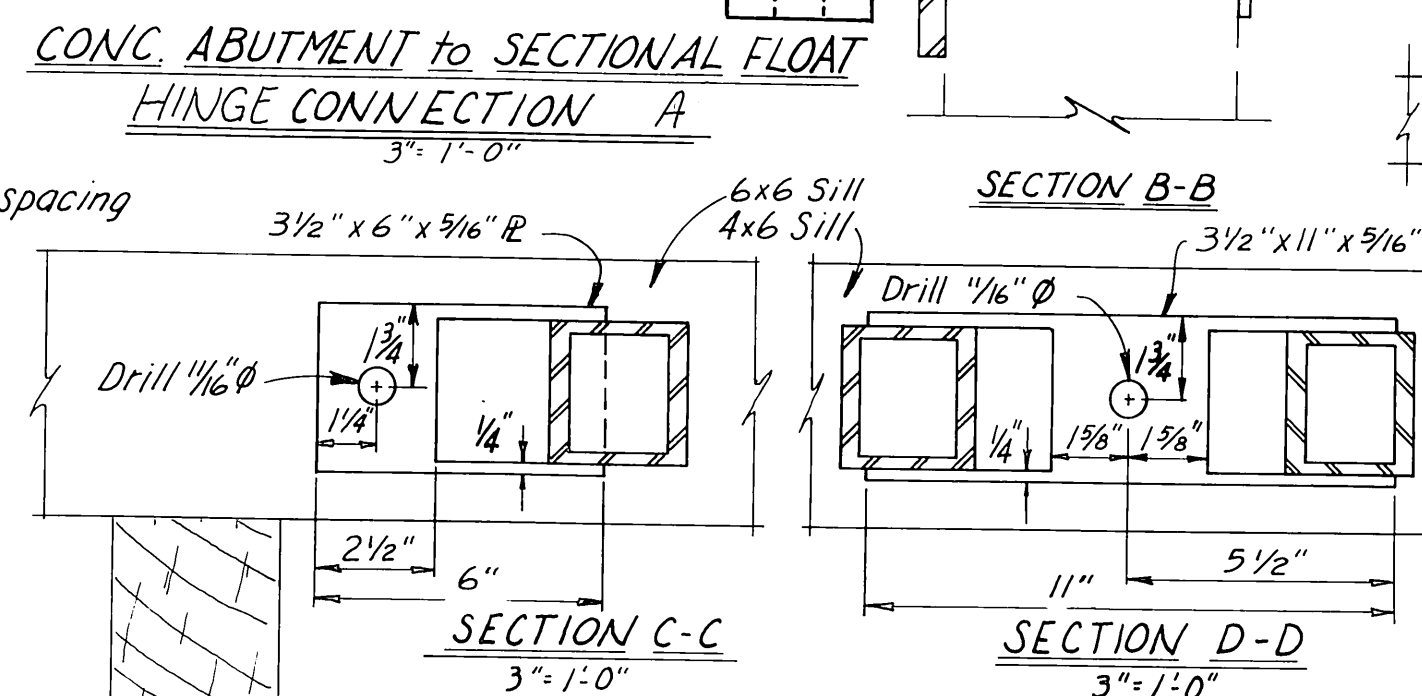
DETAIL
PIPE PILE COLLAR
1" = 1'-0"



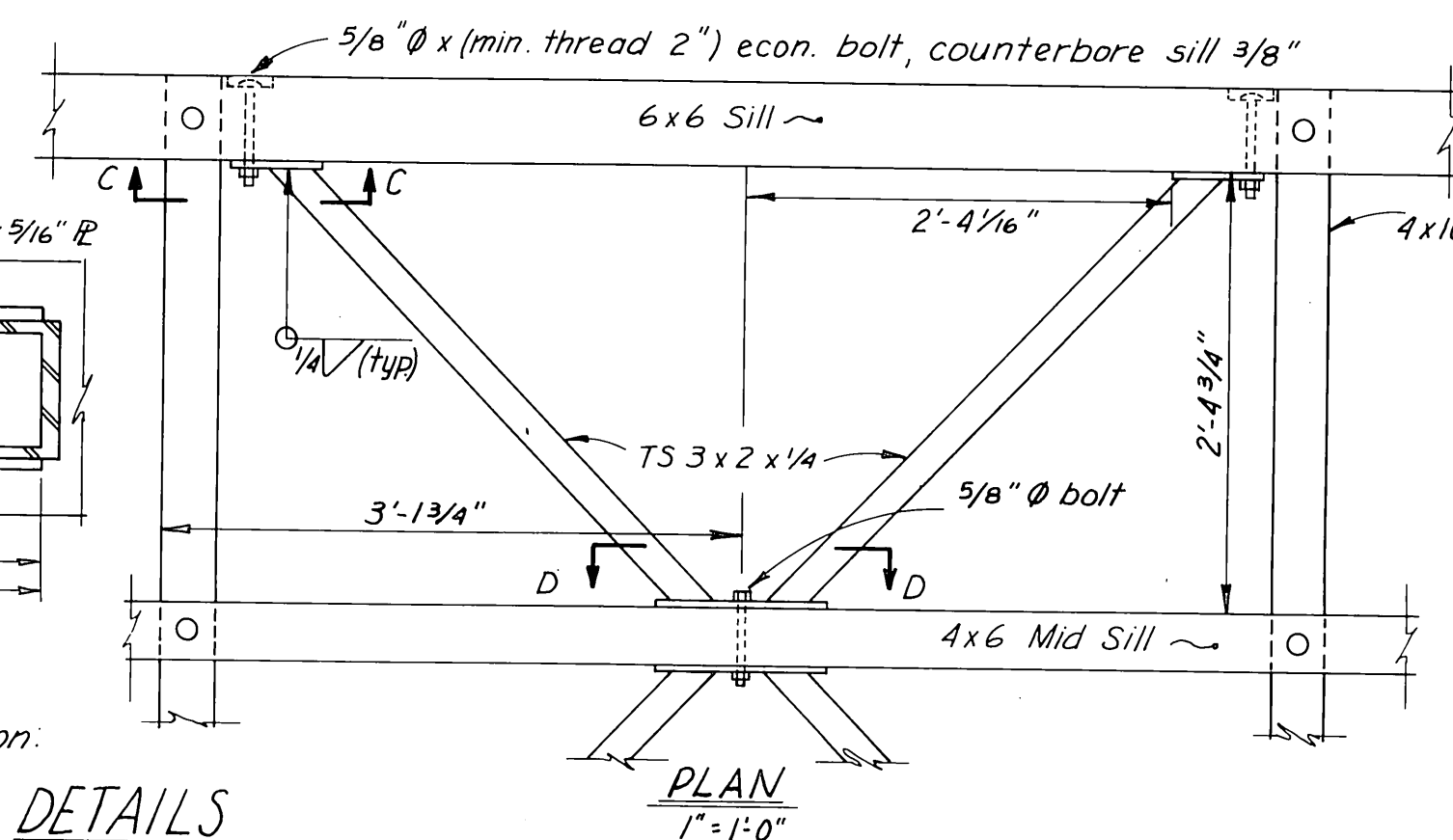
HINGE ASSEMBLY DIAGRAM



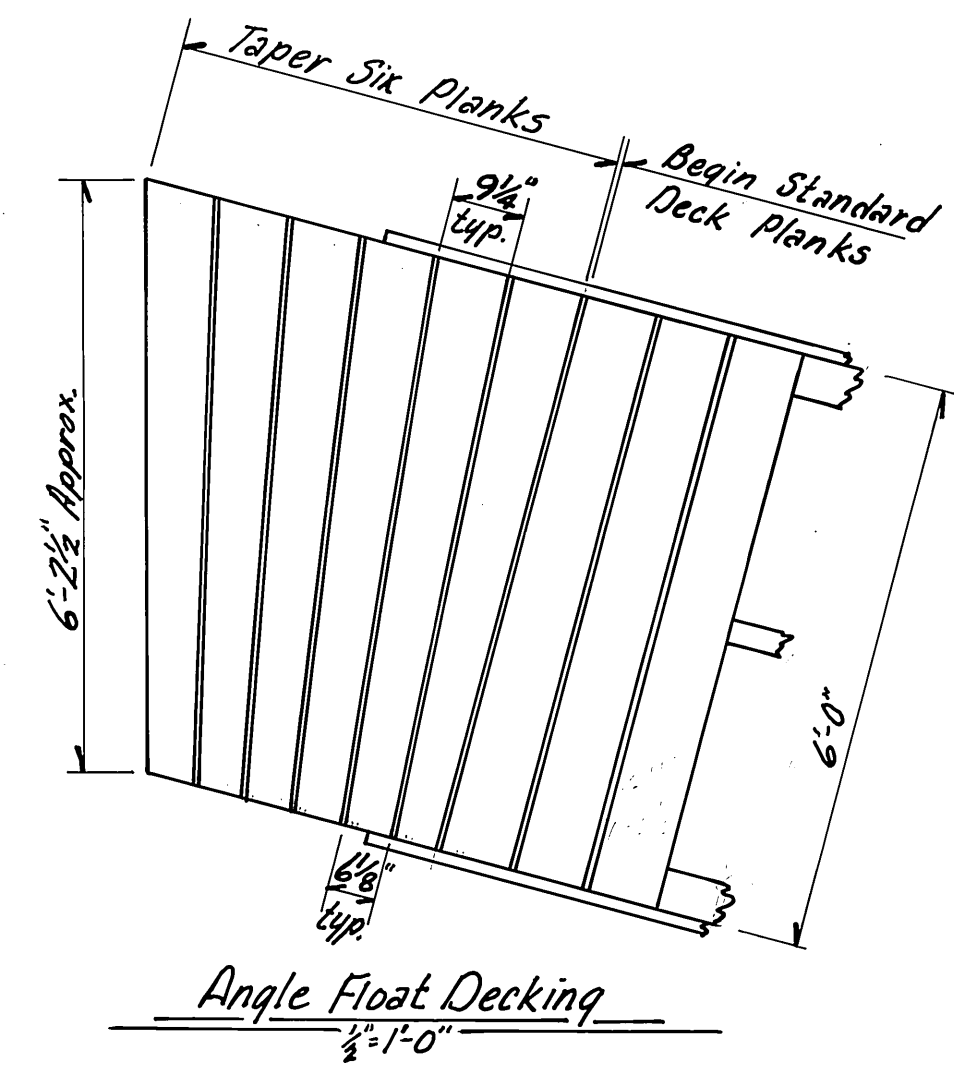
CONNECTION B
HINGE PLATE DETAIL
1/4" = 1"



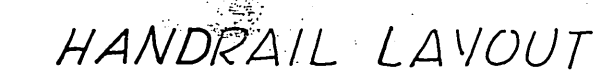
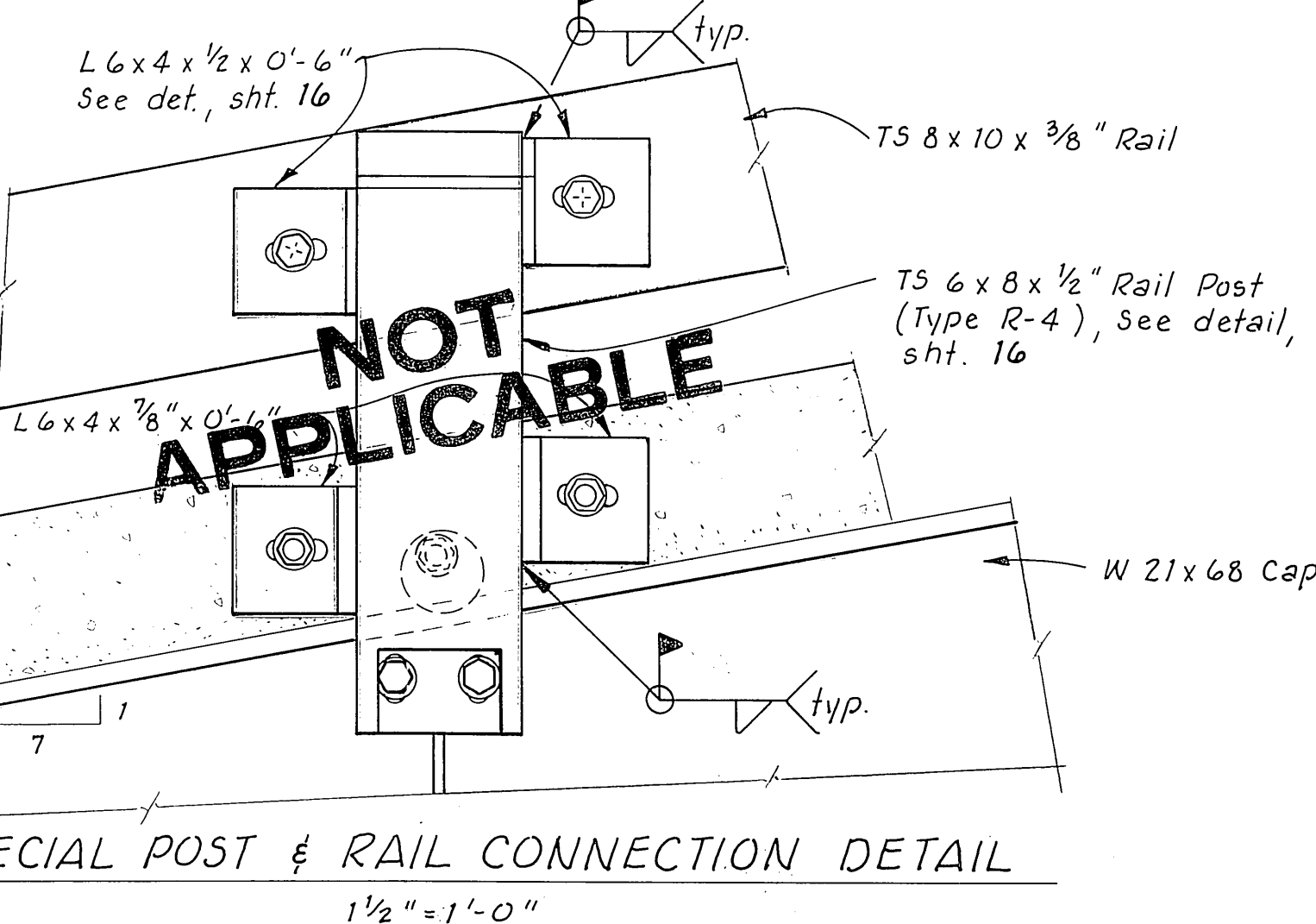
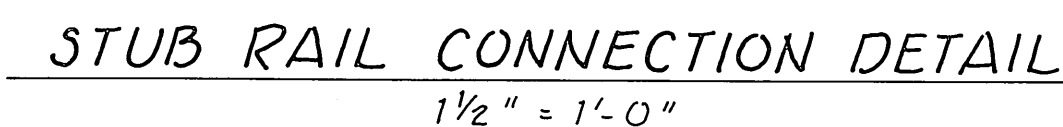
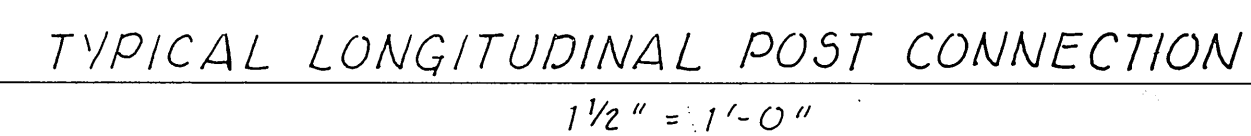
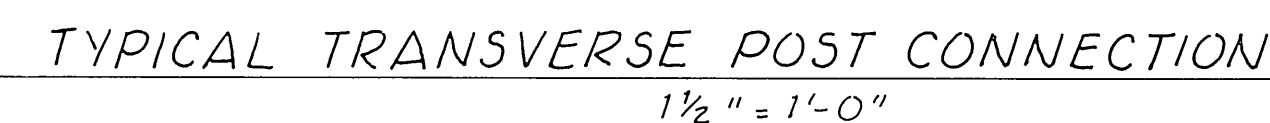
DIAGONAL BRACING DETAILS



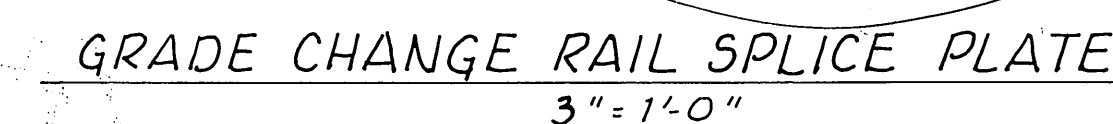
STAMP		DO NOT SCALE THIS DRAWING — USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		PETERSBURG ALASKA	
		6' SECTIONAL FLOAT	
SCALE <i>As Noted</i>	SURVEYED _____	APPROVED _____	
DESIGNED _____	DRAWN <i>TS</i>	_____	
CHECKED <i>WmN</i>	DATE <i>NOV. 79</i>	_____ CHIEF OF DESIGN	
PROJECT NUMBER <i>K31901</i>	SHEET <i>LR3</i> OF <i>4 (59)</i>		



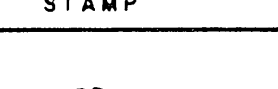
STAMP	DO NOT SCALE THIS DRAWING — USE DIMENSIONS			
	STATE OF ALASKA			
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	PETERSBURG		ALASKA	
	6' SECTIONAL ANGLE FLOAT DETAILS			
DESIGNED <u>DCW</u>	CHECKED <u> </u>	DRAWN <u>WmN</u>	DATE <u>Feb. 85</u>	
PROJECT NUMBER <u>K31901</u>	SHEET <u>LR 4</u>		OF <u>4 (60)</u>	

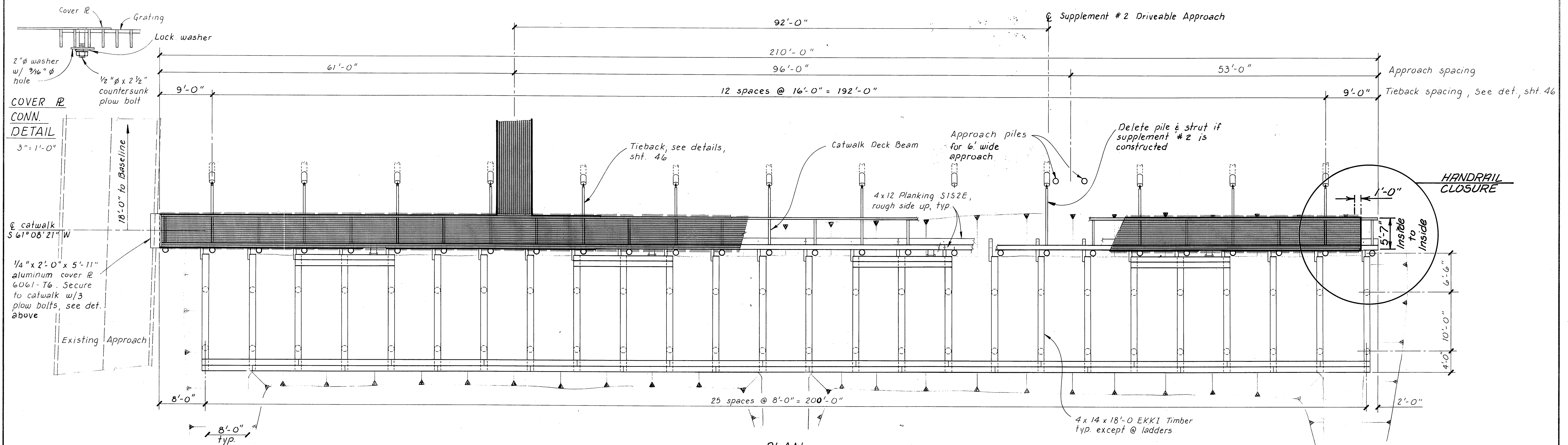


* Horizontal Length
NOTE: Handrail in shaded
area only. Totals approx.
323 linear feet.

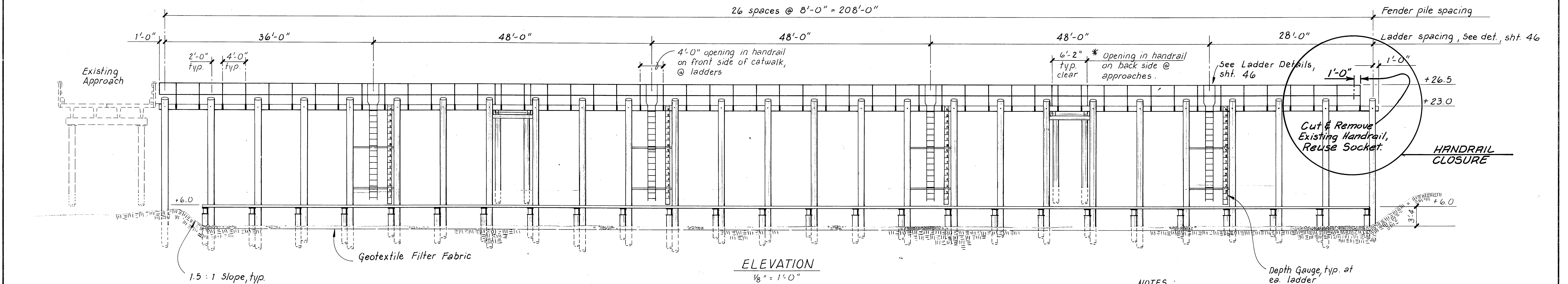


As built 2-2-87 DCW

STAMP 		DO NOT SCALE THIS DRAWING — USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES Petersburg Alaska CURB RAIL LAYOUT & DETAILS	
DESIGNED <u>RPB</u> PROJECT NUMBER <u>K-78190</u>	CHECKED _____ SHEET <u>61</u> OF <u>63</u>	DRAWN <u>TS</u> DATE <u>2-84</u>	



* For handrail spacing in approach area for Supplement # 2, see sht. 52

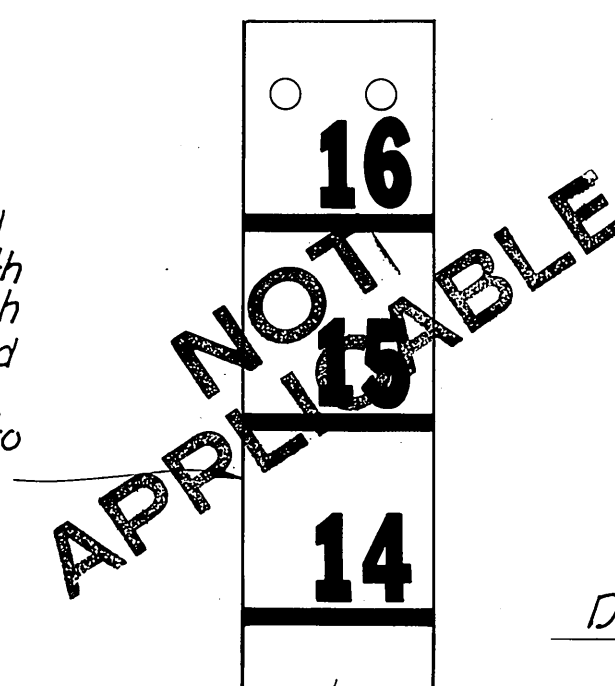
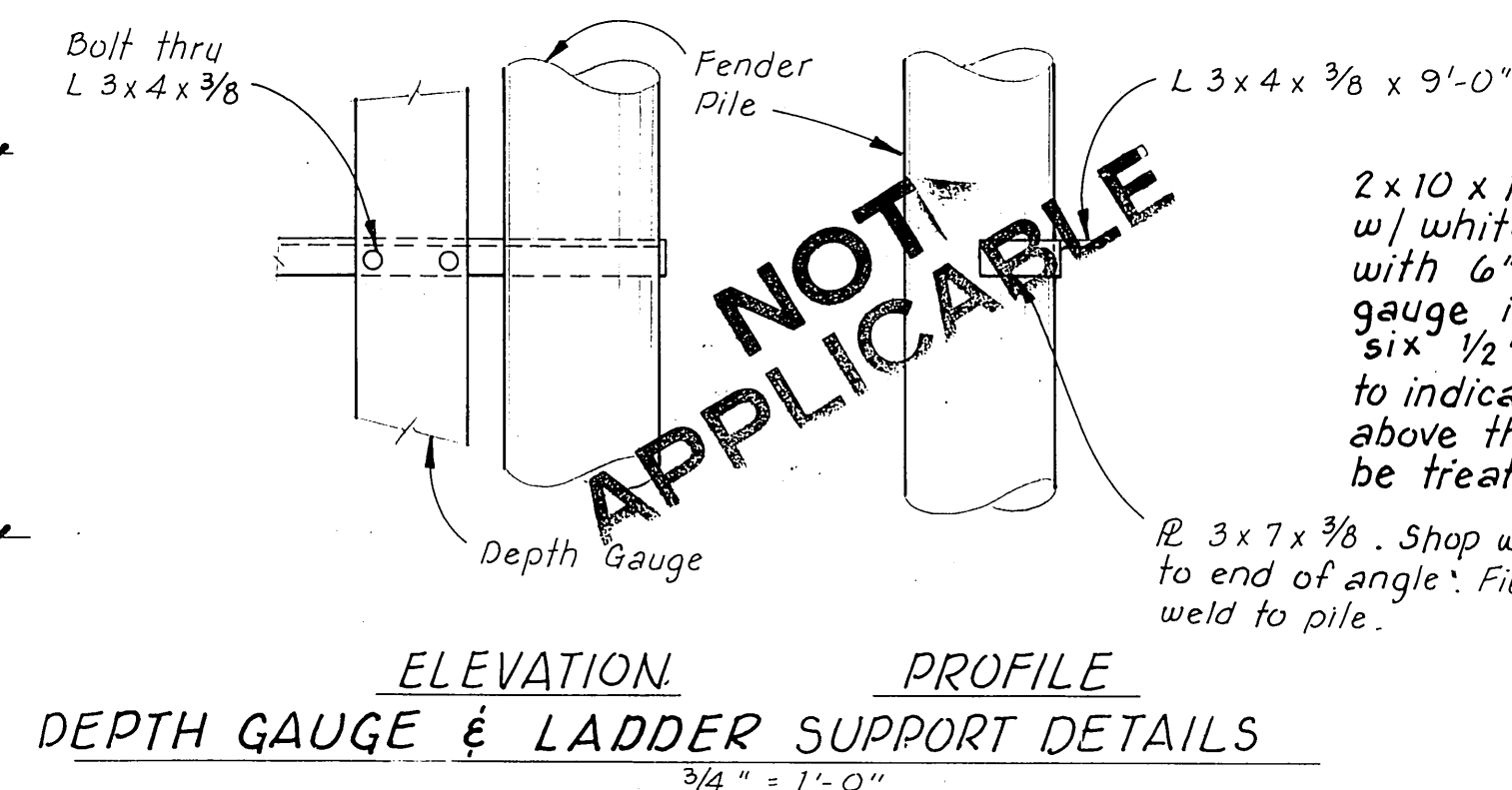
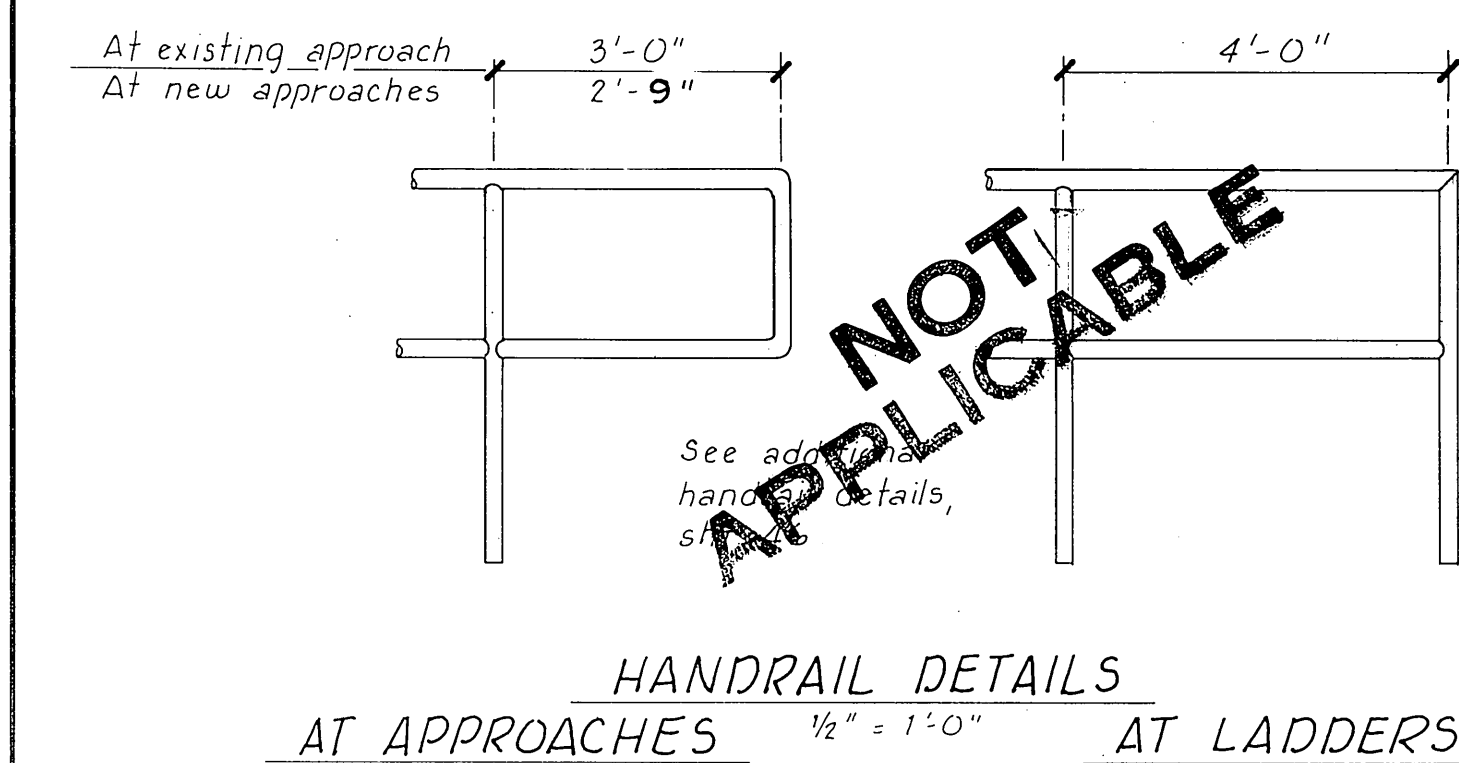


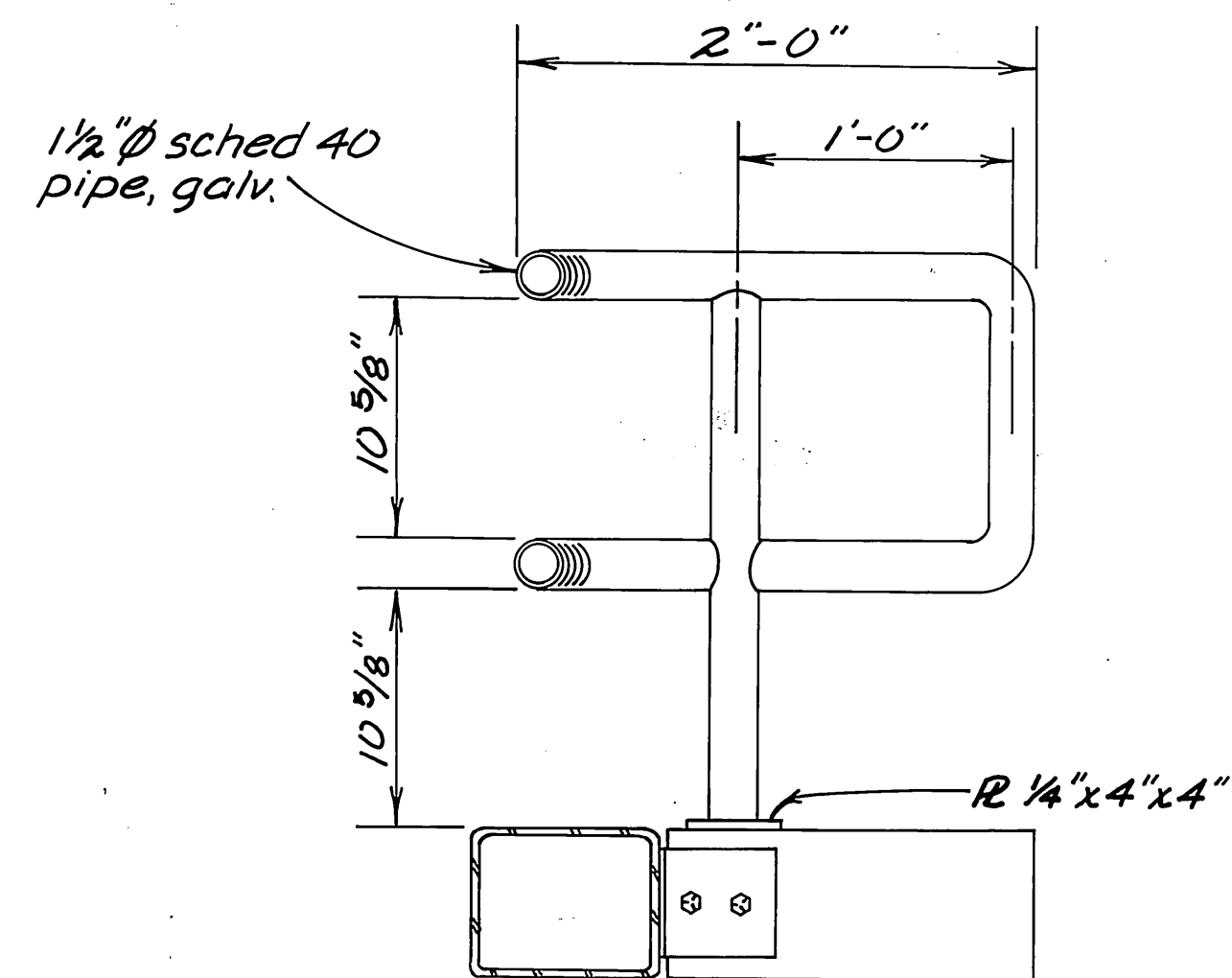
NOTES:
 Steel, Grid and Supplement # 2 Approach, piles shall be driven to 30T bearing (est. penetration is 30').
 Grid batter piles shall be driven at a 45° batter to 30T bearing (est. pen. is 30').
 Timber approach piles shall be driven to 8T bearing (est. penetration is 15').

See Grid Cross Section on sht. 46.

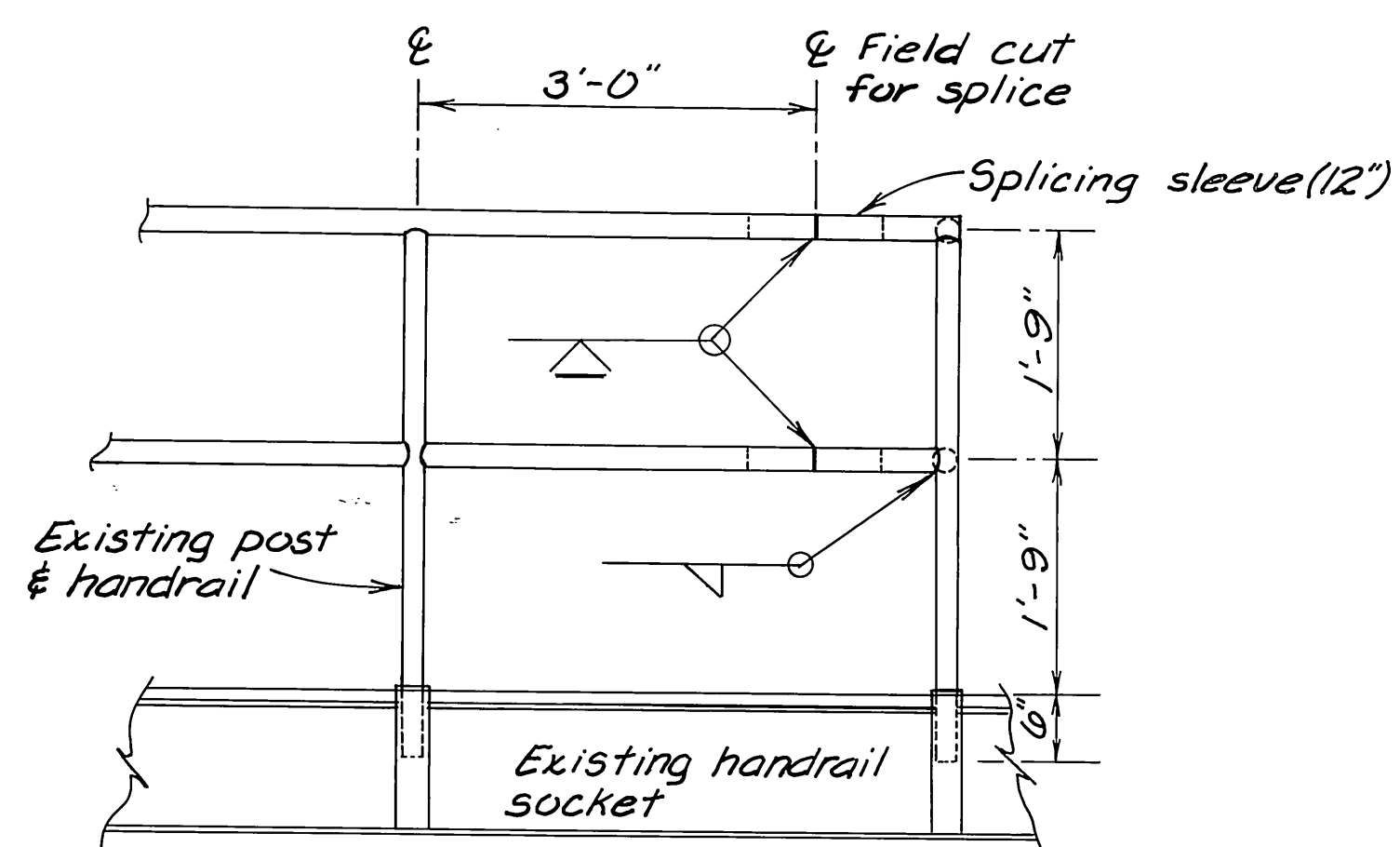
DCW 2-2-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
GRID LAYOUT			
DESIGNED RPB	CHECKED	DRAWN TS	DATE 6-84
PROJECT NUMBER K-78190	SHEET 63 OF 73		

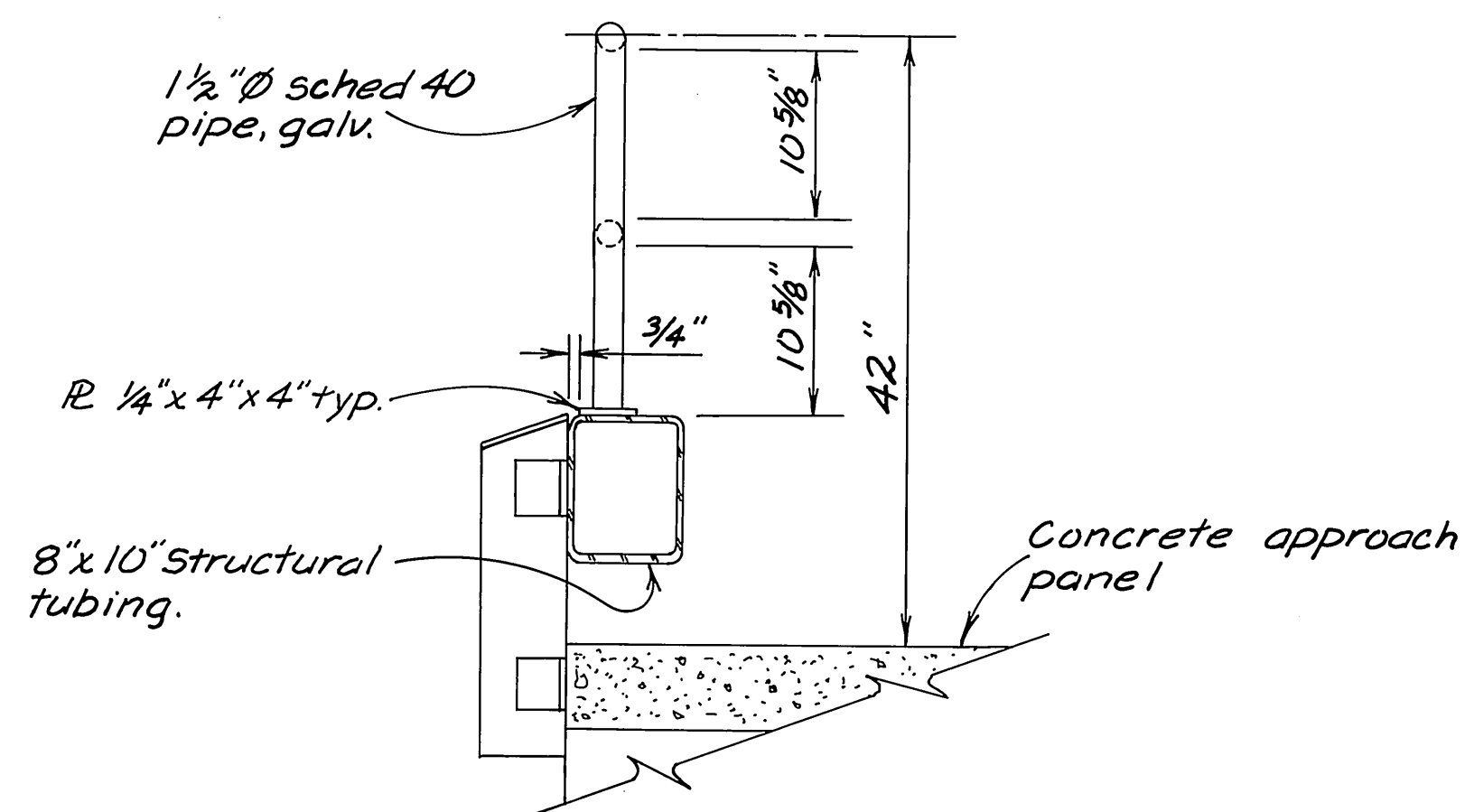
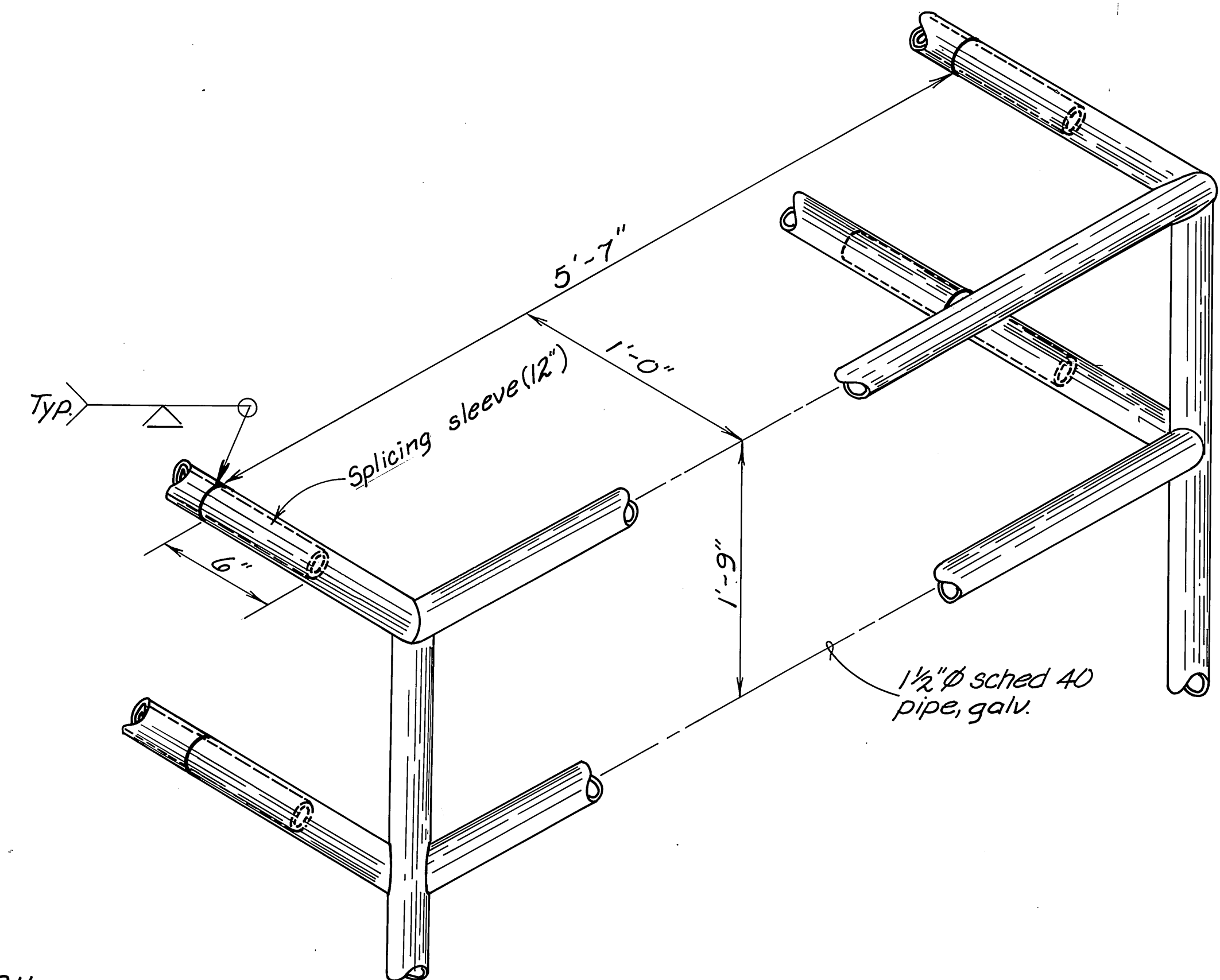




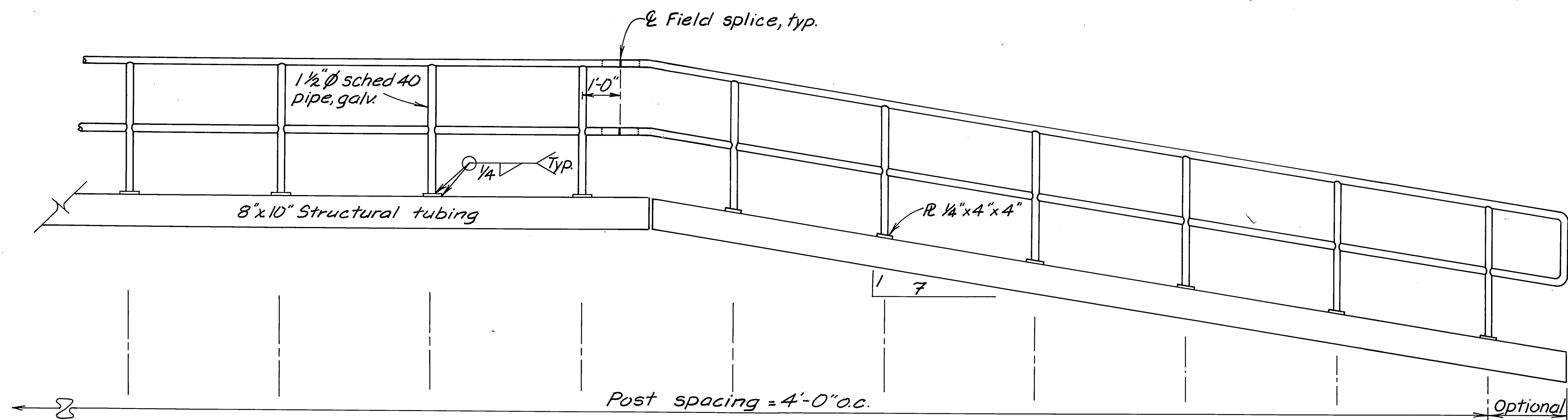
HANDRAIL AT GANGWAY



GRID-HANDRAIL DETAIL
3/4" = 1'-0"



X-SECTION



ELEVATION VIEW

APPROACH-HANDRAIL DETAILS
1/2" = 1'-0"

DCW 2-2-87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		PETERSBURG	EXTRA WORK ALASKA
		HANDRAIL DETAILS	
DESIGNED	CHECKED	DRAWN M.C.	DATE 7/85
PROJECT NUMBER K-78190	SHEET 63	OF 63	