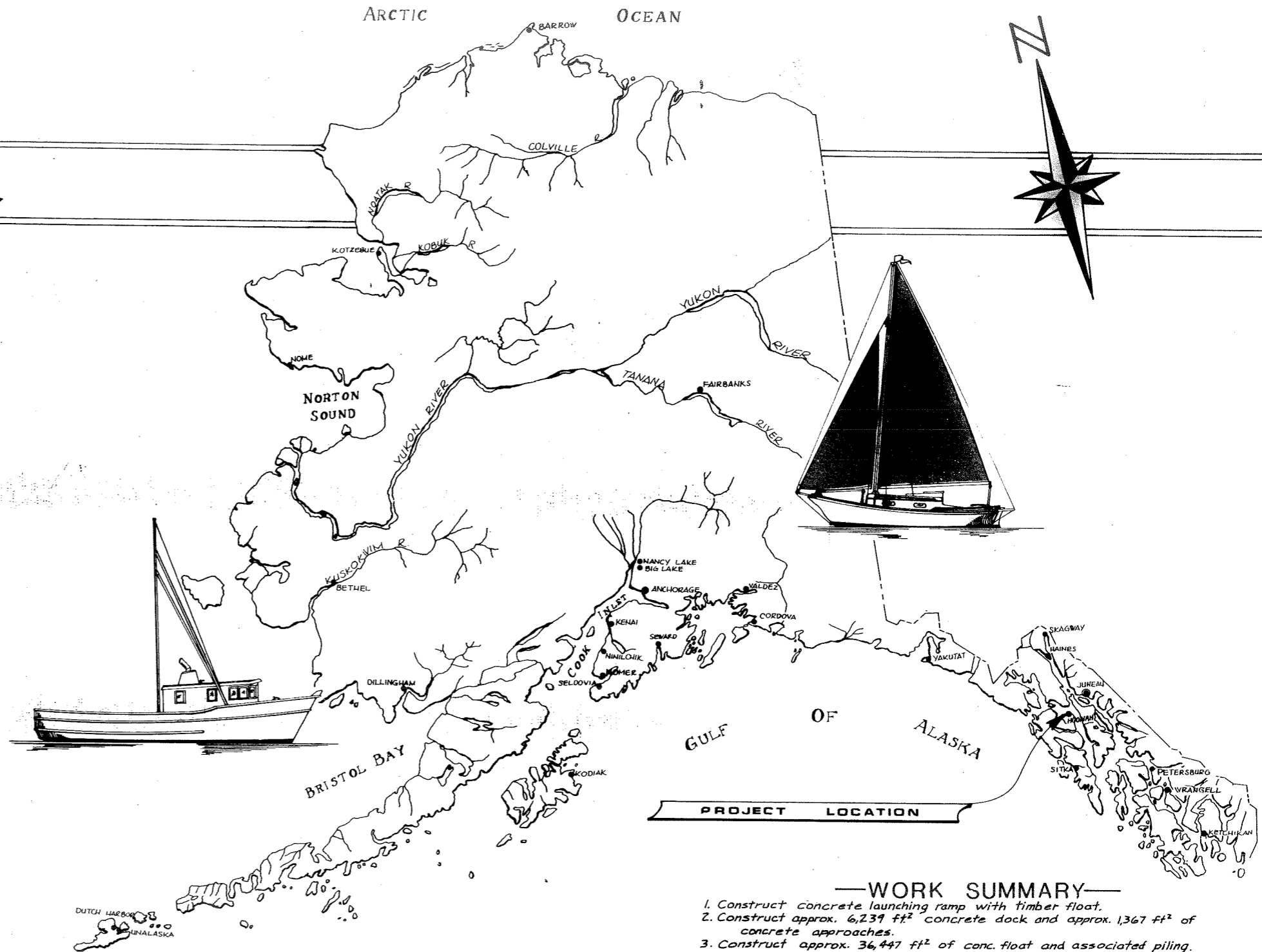


HONAH BOAT HARBOR PROJECT NO. K93109



- WORK SUMMARY—
1. Construct concrete launching ramp with timber float.
 2. Construct approx. 6,239 ft² concrete dock and approx. 1,367 ft² of concrete approaches.
 3. Construct approx. 36,447 ft² of conc. float and associated piling.
 4. Construct 3 steel gangways.
 5. Construct steel grid.
 6. Excavate approx. 1,550 yd³ of material.
 7. Furnish and install dock crane.
 8. Construct water line on main float.
 9. Construct Electrical Utilities.

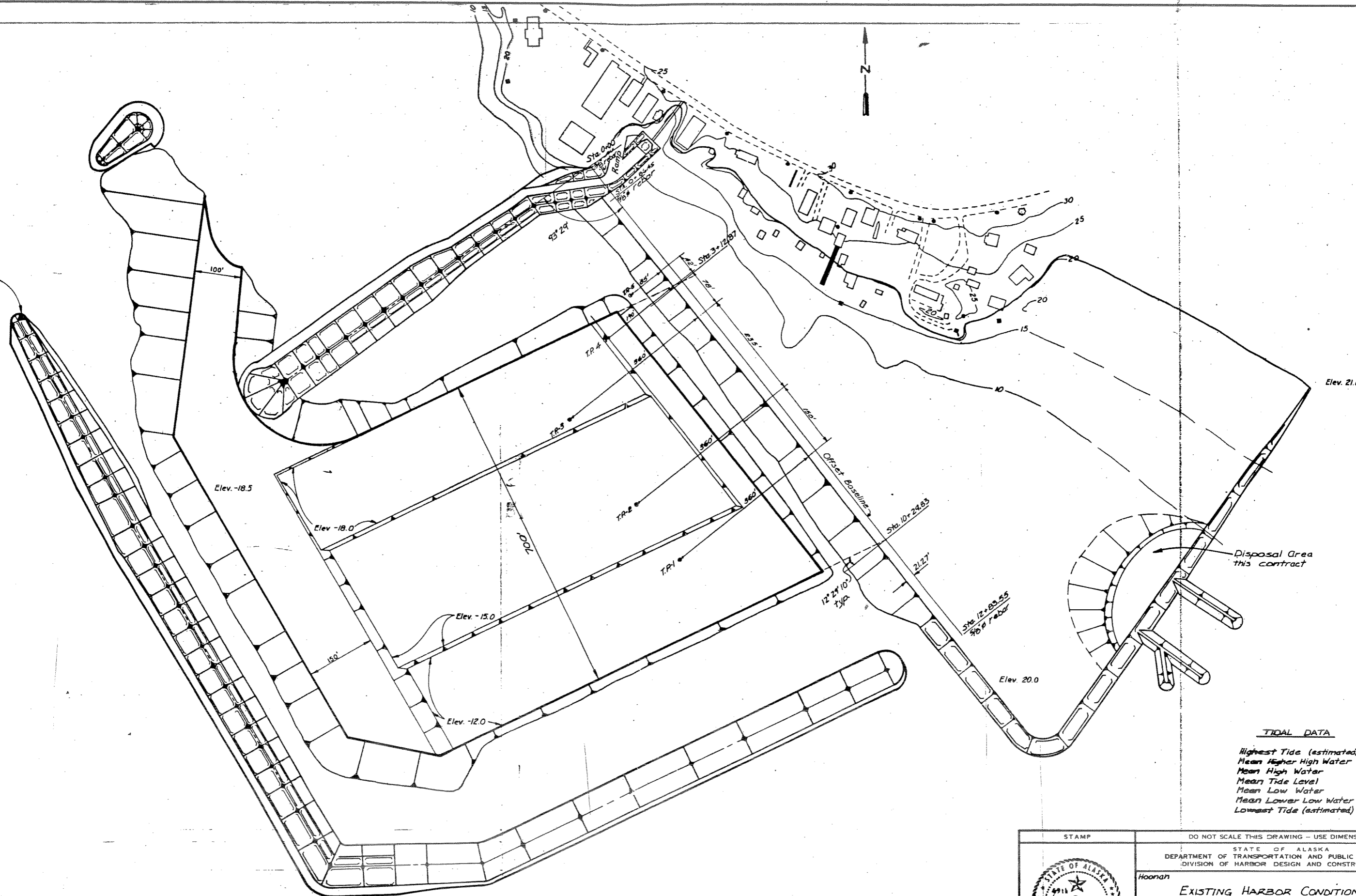
INDEX TO SHEETS	
1 Title & Location	14 Typical Stall Float Units
2 Existing Harbor Cond. & test pile locat.	15 Conc. Stall Float Weld. & Misc. Details
3 Project Layout	16 6' Sectional Float
4 LAYOUT FLOATS A,B, & F	17 Launch Ramp Details
5 Layout Floats C,D, & F	18 Approach Layout & Details
6 Float E Details & Float F Pile spac.	19 Gangway Details
7 Typical Utility Raceway Details	20 Dock Layout & Details
8 Float Details	21 Grid Layout & Details
9 Finger Float Connection Details	30 Conc. Float Water System Details
10 Special End Units	31 Electrical Lighting Plan
11 Typical Float Units	32 Electrical Power Plan
12 Gangway & Heavy Duty Float Units	33 Electrical Details
13 Typical Stall Floats	

**STATE
OF
ALASKA**

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
**DIVISION OF HARBOR
DESIGN & CONSTRUCTION**


APPROVED
W. J. Statter
DATE 4/10/81
SHEET 1 OF 36

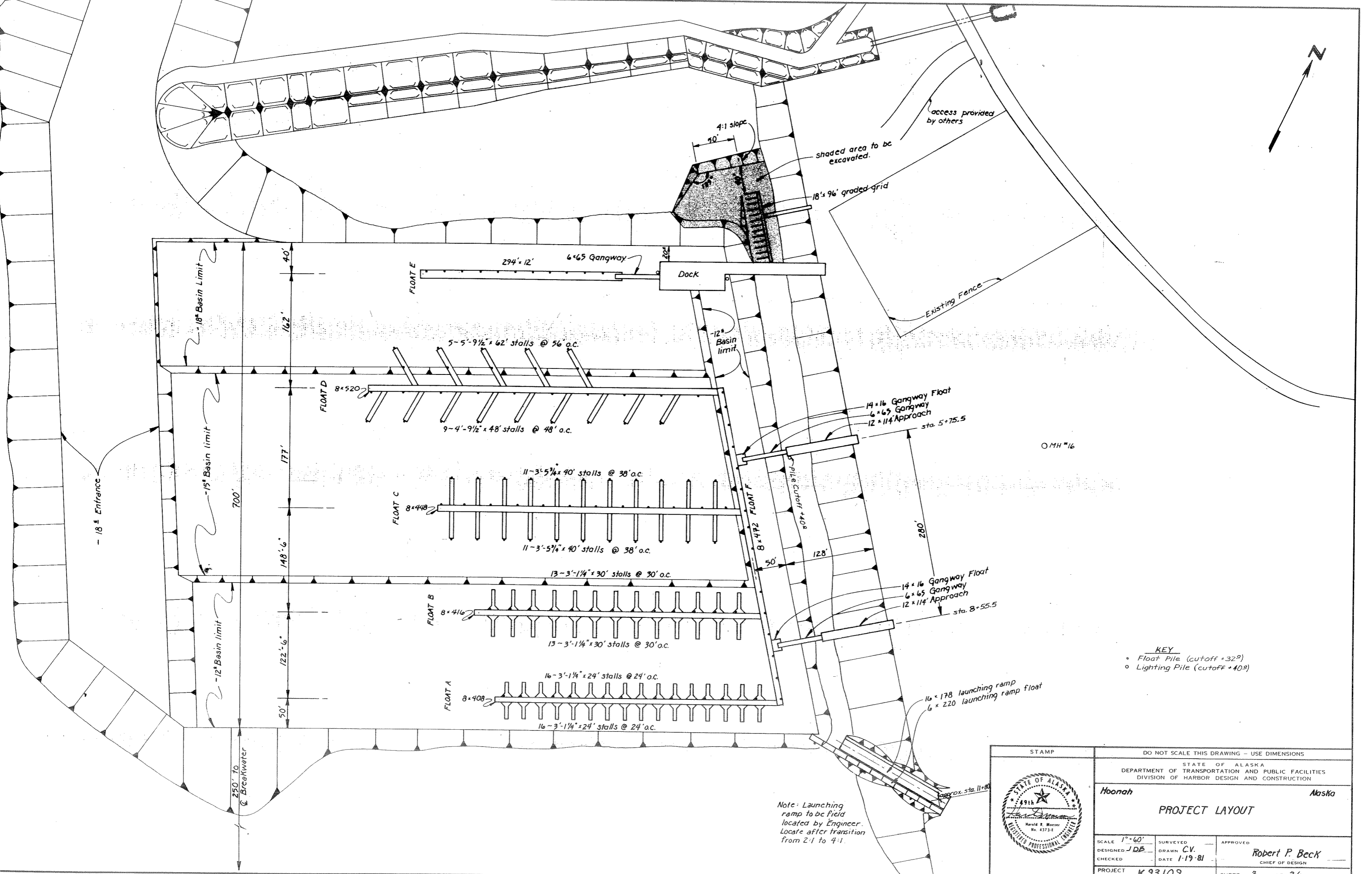
HH-2 USACE (1975)
 2,296,446.37
 2,340,788.16
 ELEV. 16.48 MLLW



TIDAL DATA

Highest Tide (estimated)	20.0
Mean Higher High Water	14.8
Mean High Water	13.9
Mean Tide Level	7.7
Mean Low Water	1.5
Mean Lower Low Water	0.0
Lowest Tide (estimated)	-5.0

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonan, Alaska	
EXISTING HARBOR CONDITION & TEST PILE LOCATIONS			
SCALE 1"=100'	SURVEYED E.M.S.	APPROVED	
DESIGNED	DRAWN T.S.	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE Mar. 1984		
PROJECT NUMBER	K 93109	SHEET 2 OF 36	



- 18° Entrance

- 18° Basin Limit

- 15° Basin limit

- 12° Basin limit

700'
162'
177'
148'-6"
122'-6"
50'

250' to Breakwater

FLOAT E 294'-12' 6x65 Gangway

FLOAT D 8x520

FLOAT C 8x448

FLOAT B 8x416

FLOAT A 8x408

5-5'-9 1/2" x 62' stalls @ 56' o.c.
9-4'-9 1/2" x 48' stalls @ 48' o.c.

11-3'-5 3/4" x 40' stalls @ 38' o.c.
11-3'-5 3/4" x 40' stalls @ 38' o.c.

13-3'-1 1/4" x 30' stalls @ 30' o.c.
13-3'-1 1/4" x 30' stalls @ 30' o.c.

16-3'-1 1/4" x 24' stalls @ 24' o.c.
16-3'-1 1/4" x 24' stalls @ 24' o.c.

Dock

4:1 slope

90'

shaded area to be excavated.

18' x 96' graded grid

access provided by others

Existing Fence

- 12° Basin limit

14 x 16 Gangway Float
6 x 65 Gangway
12 x 114 Approach
sta. 5+75.5

OMH #16

Pile Cutoff +40'

8 x 472 FLOAT F

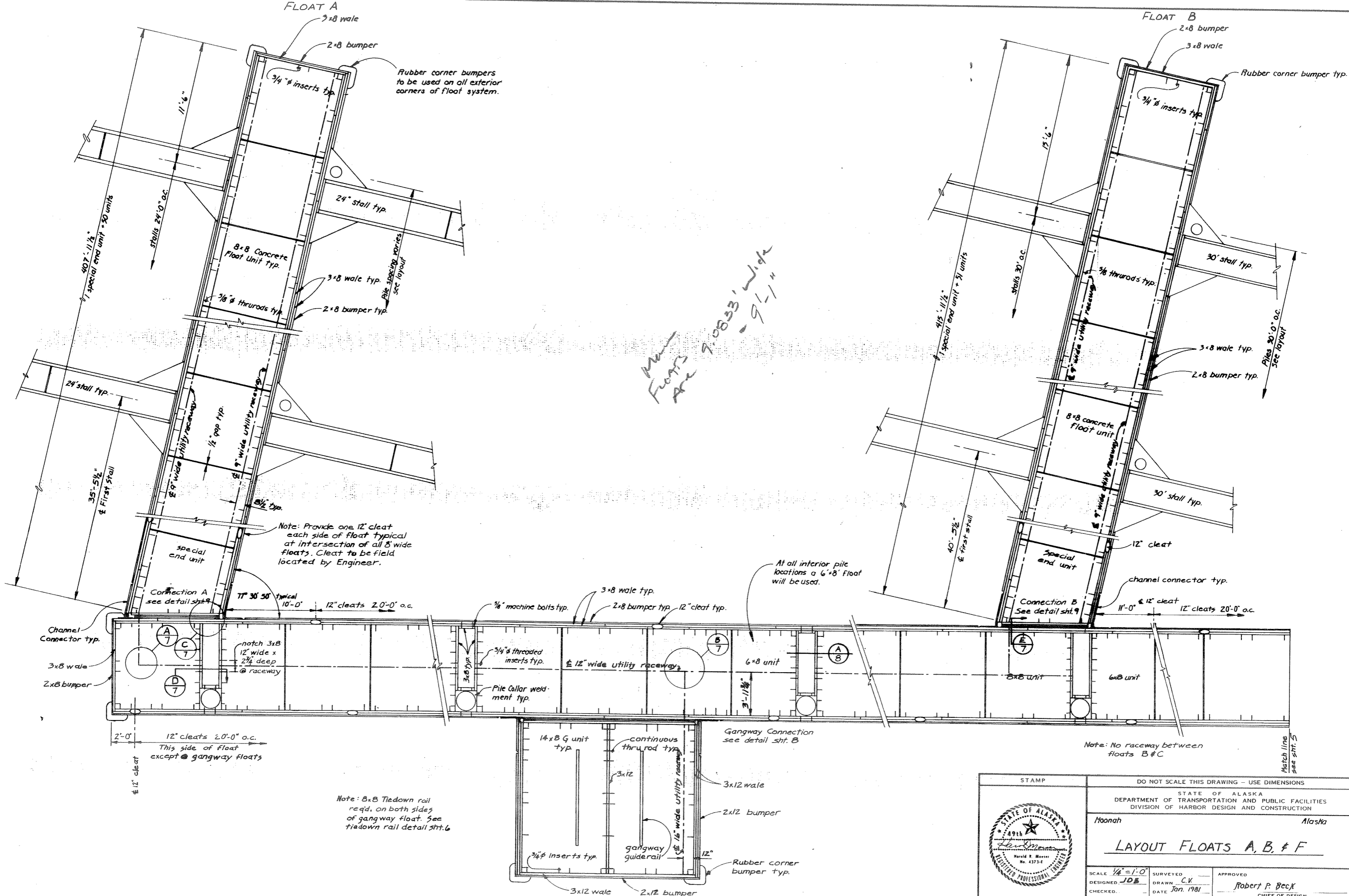
14 x 16 Gangway Float
6 x 65 Gangway
12 x 114 Approach
sta. 8+55.5


16 x 178 launching ramp float
6 x 220 launching ramp float

- KEY**
- Float Pile (cutoff +32⁹)
 - Lighting Pile (cutoff +40⁹)

Note: Launching ramp to be field located by Engineer. Locate after transition from 2:1 to 4:1.

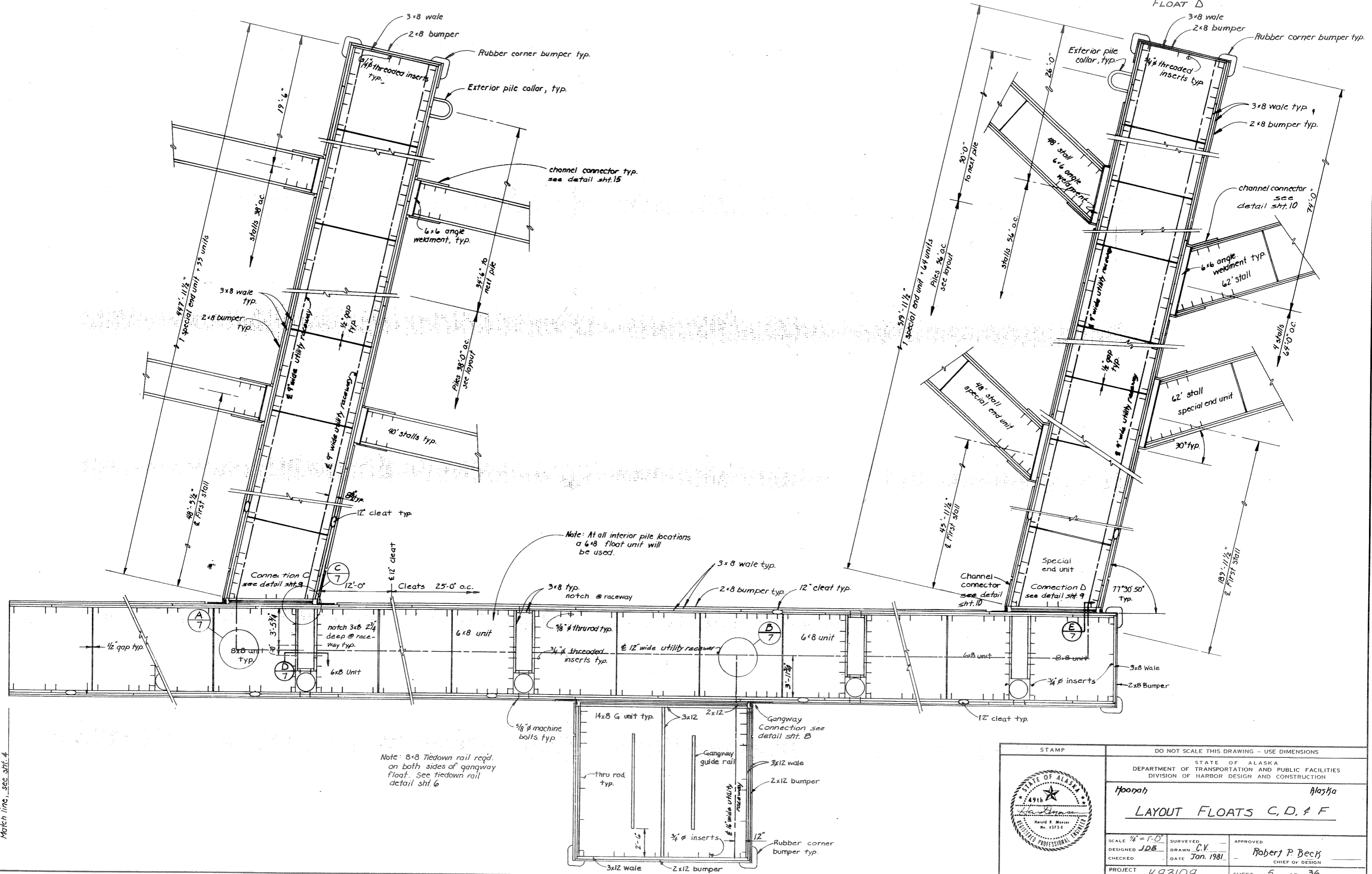
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		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
PROJECT LAYOUT			
SCALE 1"=60'	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN C.V.	 Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE 1-19-81		
PROJECT NUMBER K93109	SHEET 3 OF 36		



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Hoonah		Alaska	
LAYOUT FLOATS A, B, & F			
SCALE 1/4" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN CK	 Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE Jan. 1981		
PROJECT NUMBER K 93109	SHEET 4 OF 36		

FLOAT C

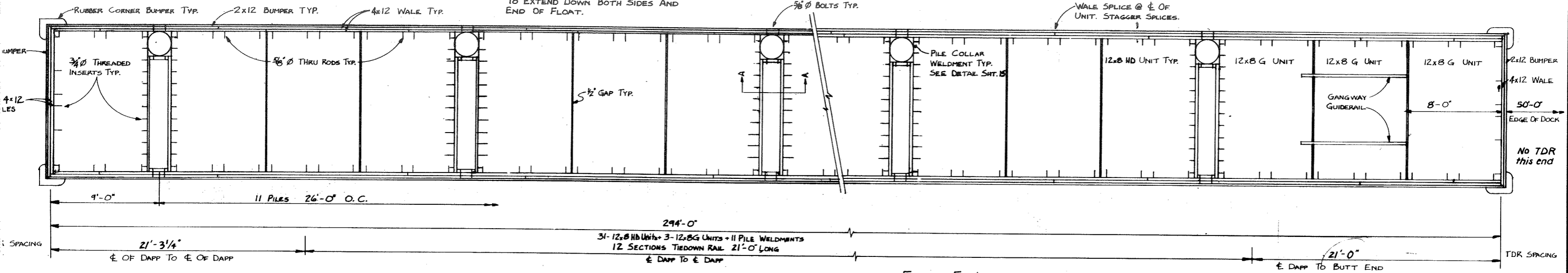
FLOAT D



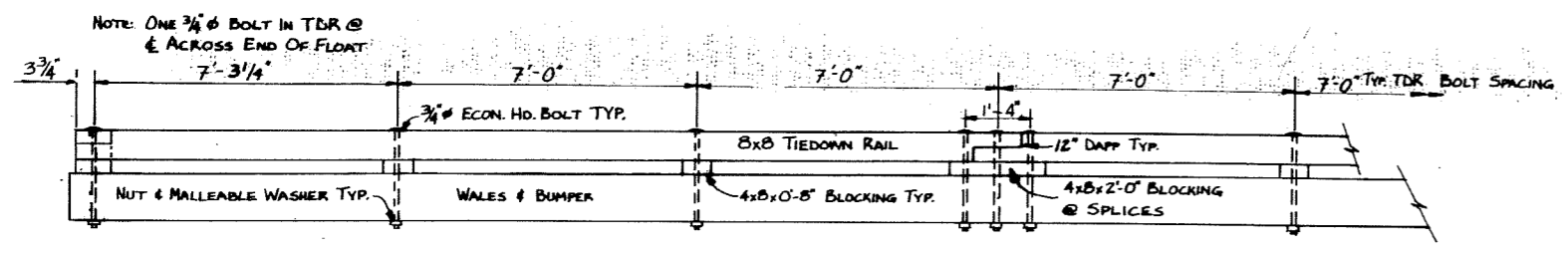
Match line, see sht. 4

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah Alaska LAYOUT FLOATS C, D, & F	
SCALE 1/4" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN C.V.	Robert P. Beck	
CHECKED	DATE Jan. 1981	CHIEF OF DESIGN	
PROJECT NUMBER K93109	SHEET 5 OF 36		

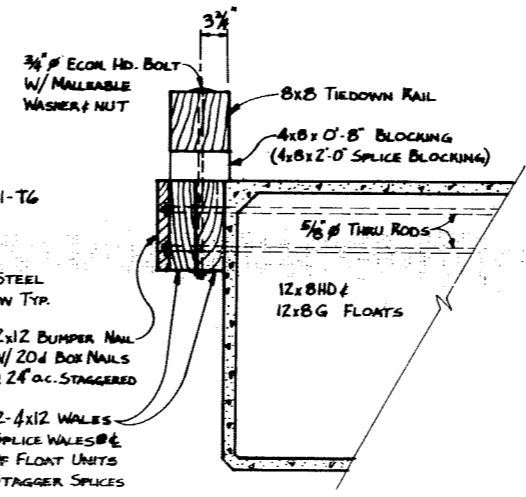
NOTE: TIEDOWN RAIL NOT SHOWN FOR CLARITY, SEE DETAILS THIS SHEET. TIEDOWN RAIL TO EXTEND DOWN BOTH SIDES AND END OF FLOAT.



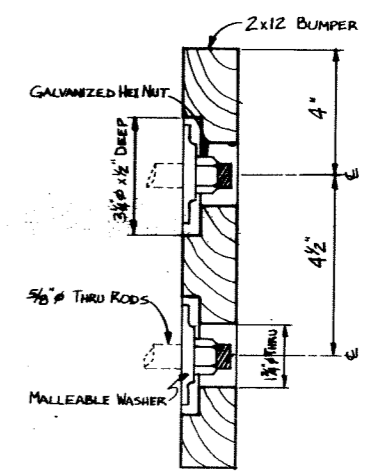
FLOAT E LAYOUT
1/4" = 1'-0"



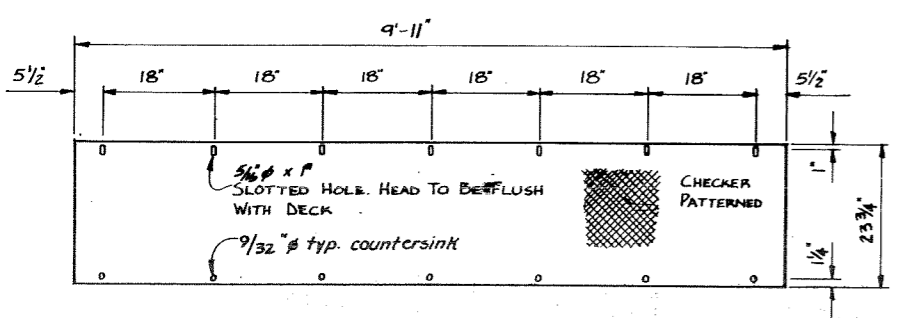
TIEDOWN RAIL DETAILS
1/2" = 1'-0"



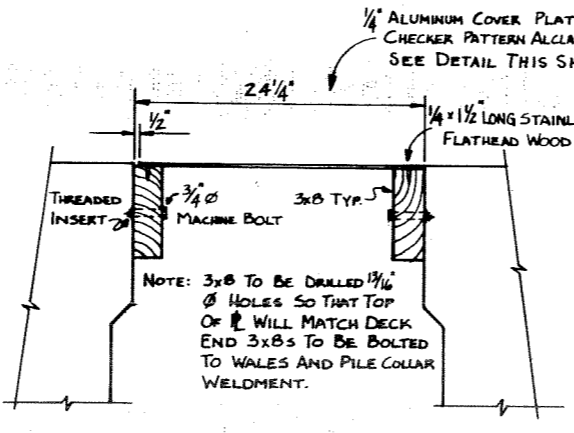
TIEDOWN RAIL DETAILS
1" = 1'-0"



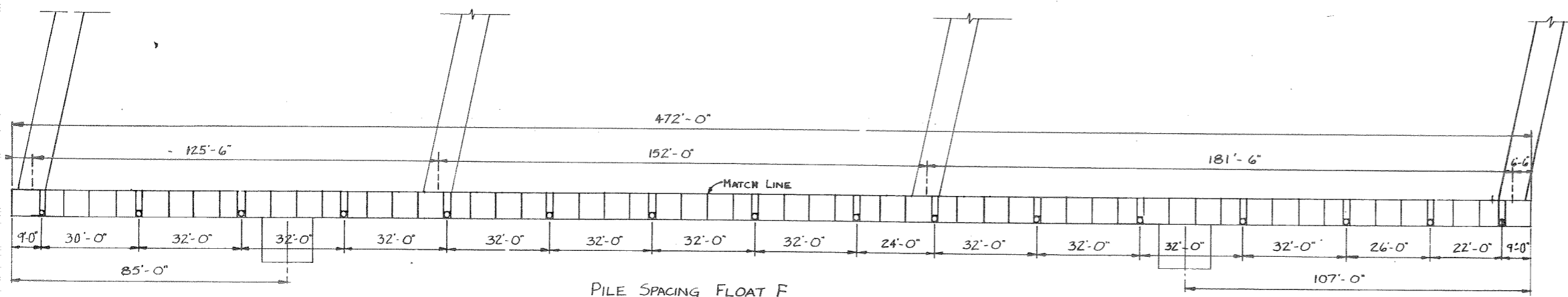
2x12 BUMPER COUNTERBORE DETAIL
3/16" = 1"



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

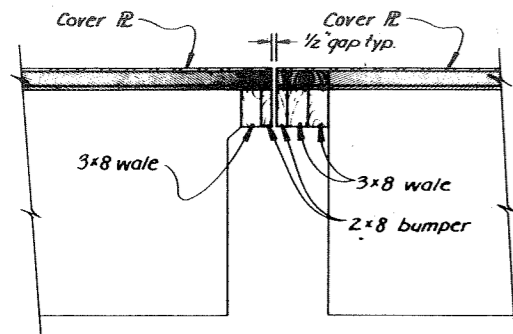


SECTION A-A
1 1/2" = 1'-0"

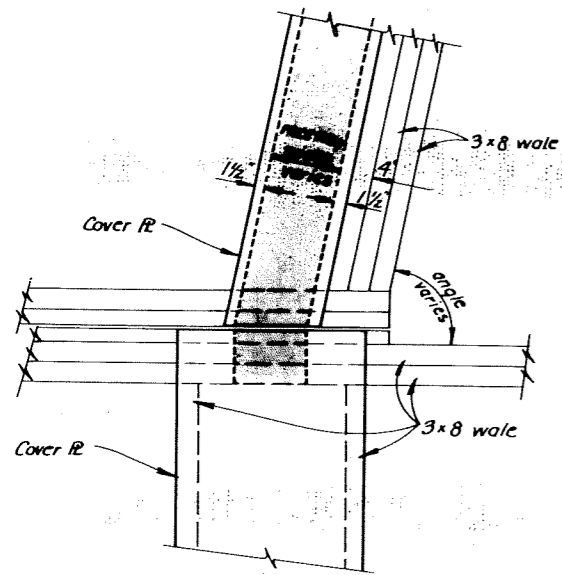


PILE SPACING FLOAT F
1" = 20"

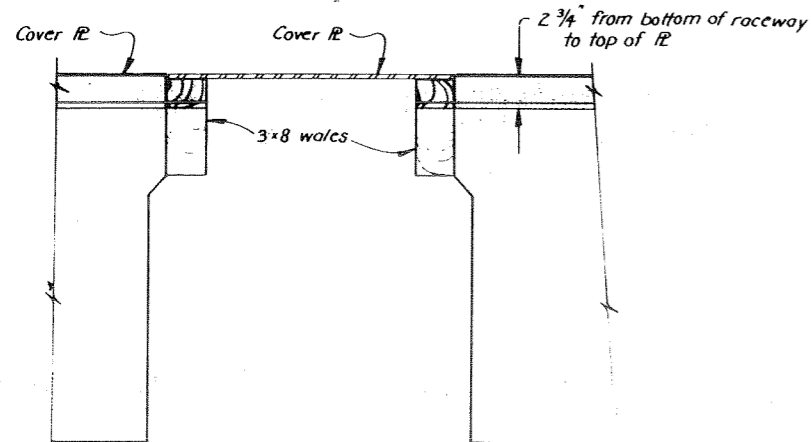
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
	HOONAH, ALASKA FLOAT E DETAILS FLOAT F PILE SPACING 	
	SCALE AS NOTED DESIGNED: JDB CHECKED:	SURVEYED: RJT DRAWN: RJT DATE: JAN. 81
PROJECT NUMBER: K 93109	SHEET 6 OF 36	



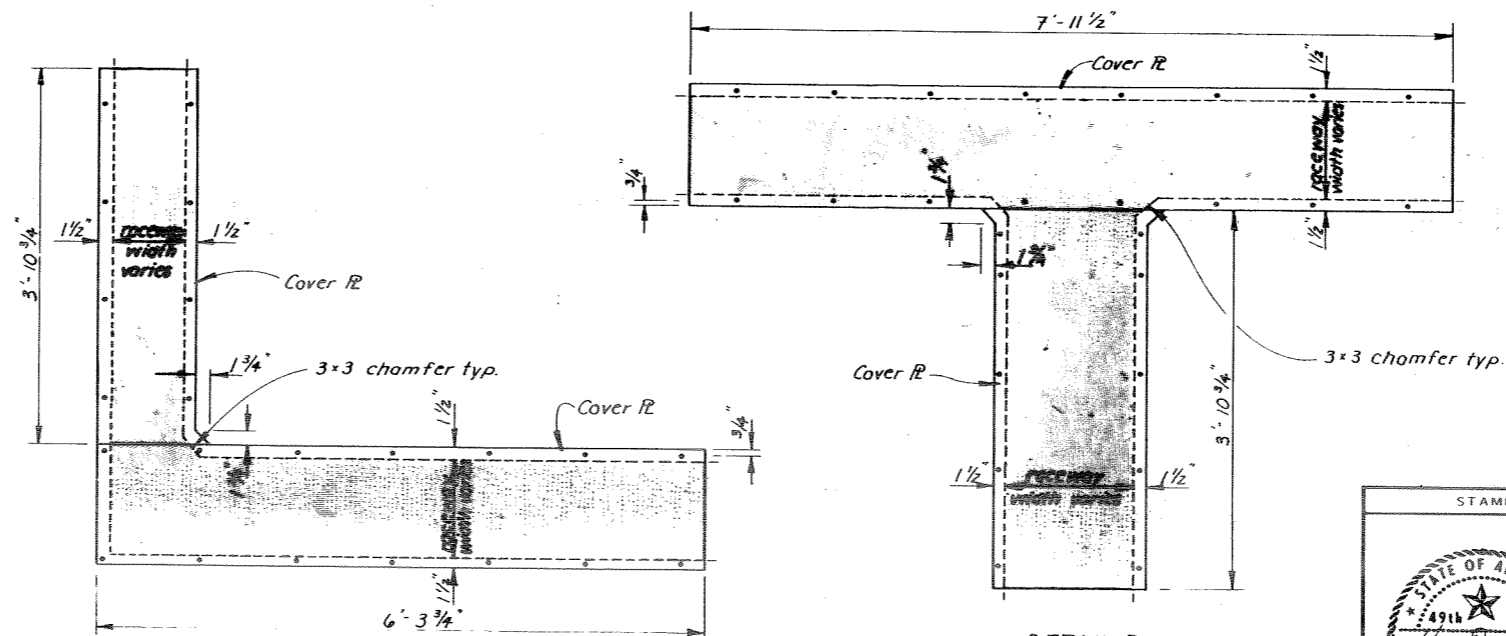
SECTION E
1" = 1'-0"



DETAIL C
1" = 1'-0"



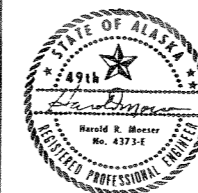
SECTION D
1 1/2" = 1'-0"

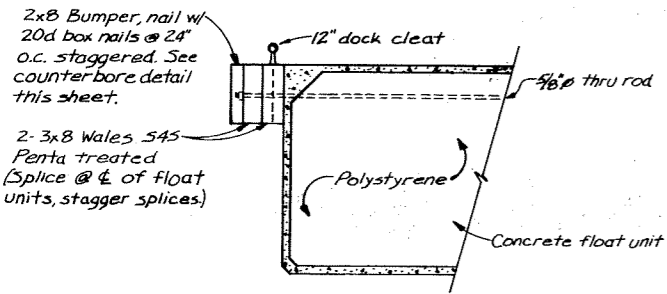


DETAIL A
1" = 1'-0"

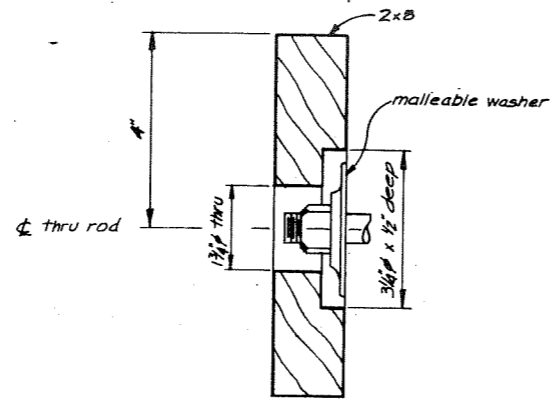
DETAIL B
1" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Hoonah		Alaska	
TYPICAL UTILITY RACEWAY DETAILS			
SCALE AS SHOWN	DRAWN CV	CHECKED	APPROVED
	DATE April '81		Robert P. Beck CHIEF OF DESIGN
PROJECT NUMBER	K 93109	SHEET	7 OF 36

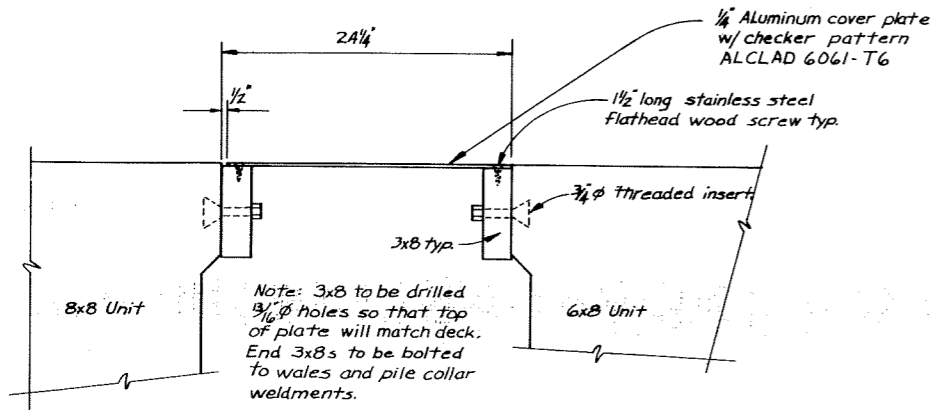




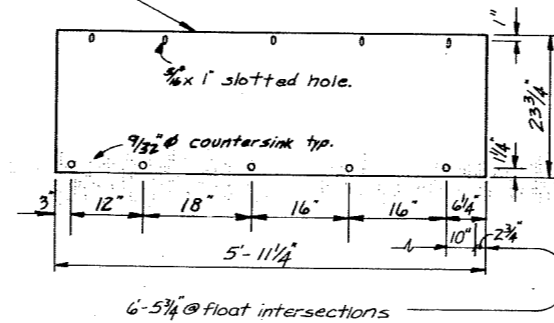
TYPICAL Wale Detail
6x8 Floats



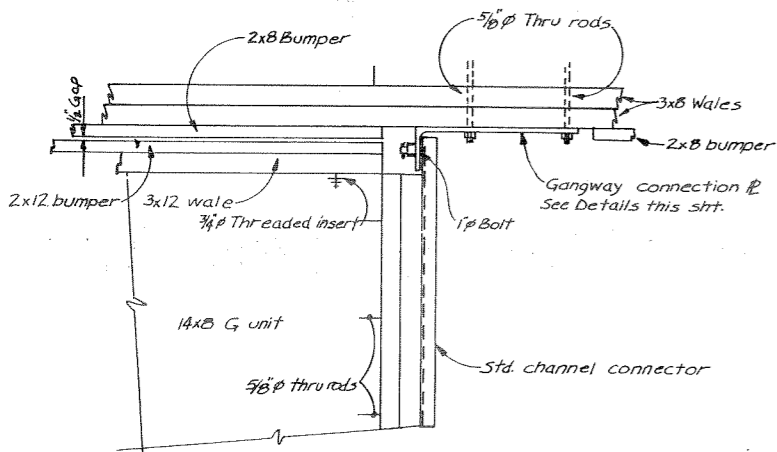
2x8 BUMPER
COUNTERBORE DETAIL
1/2 SIZE



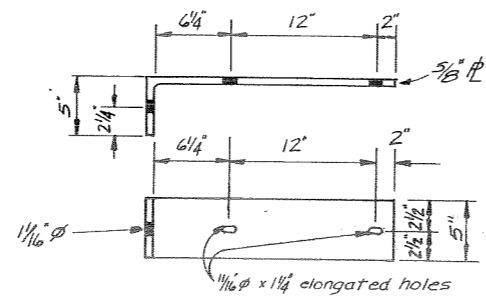
SECTION A
1/2" = 1'-0"



COVER PLATE
3/4" = 1'-0"

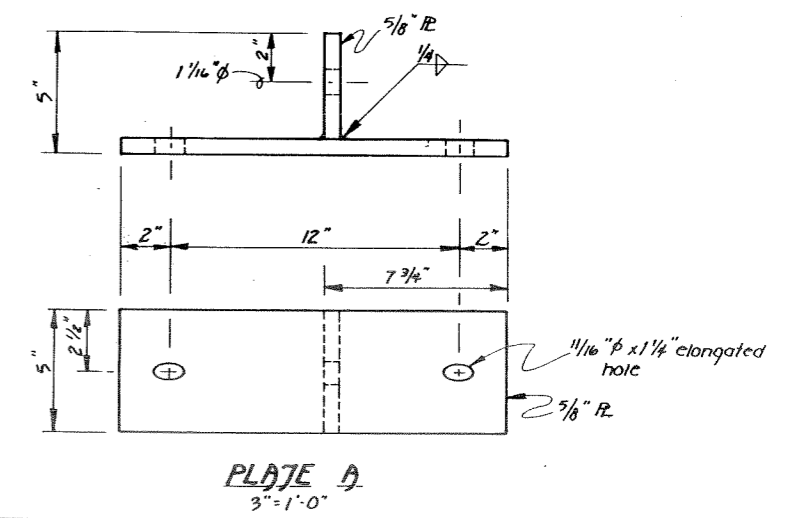
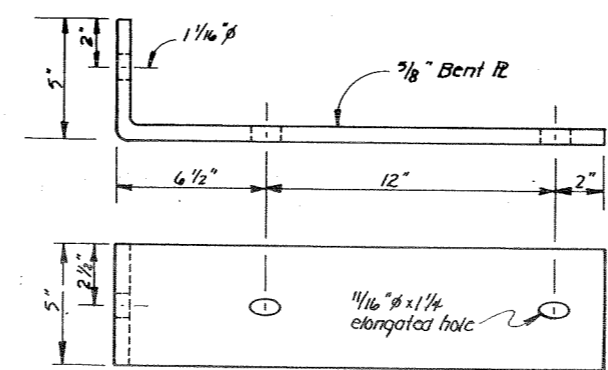
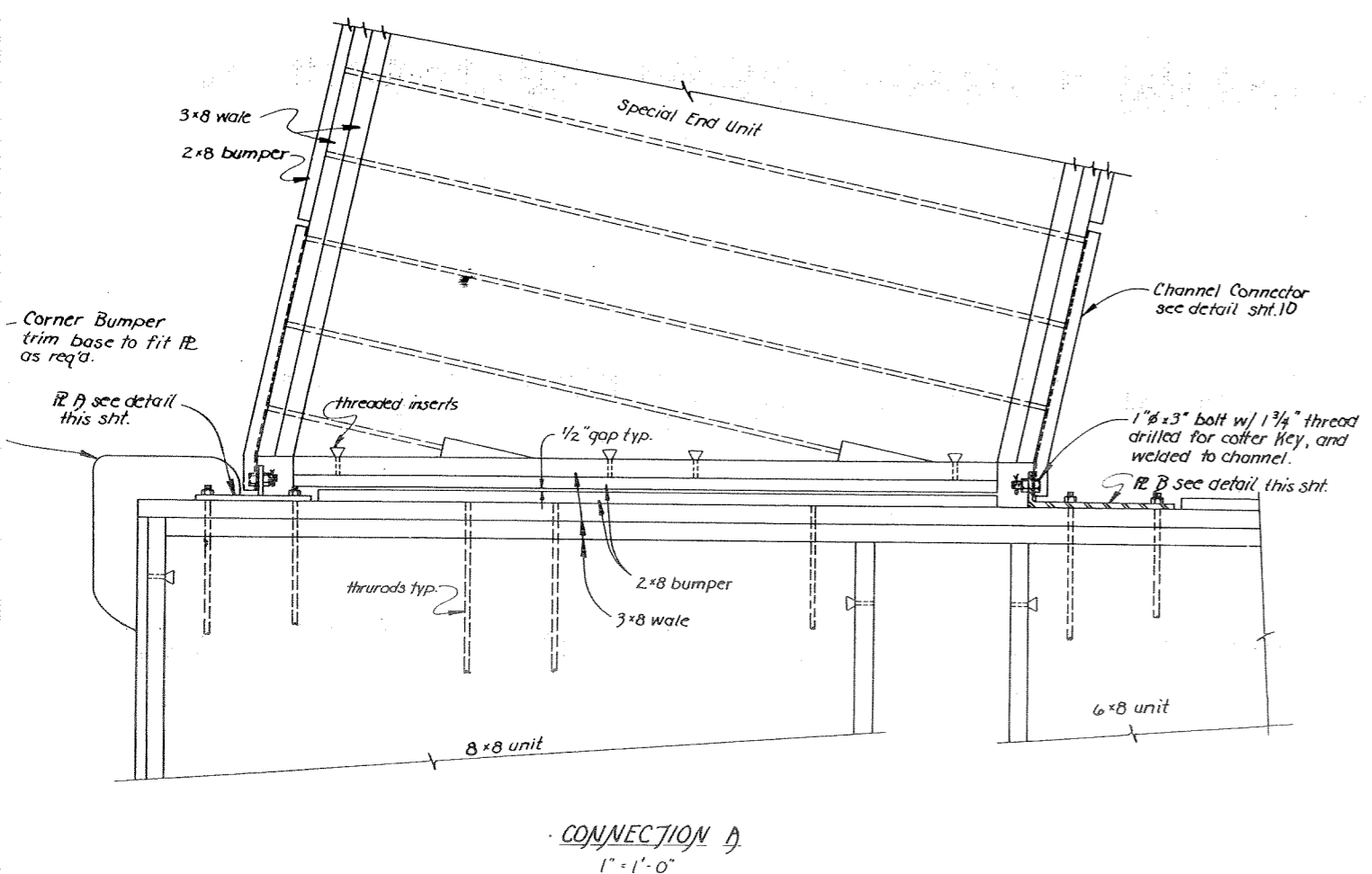
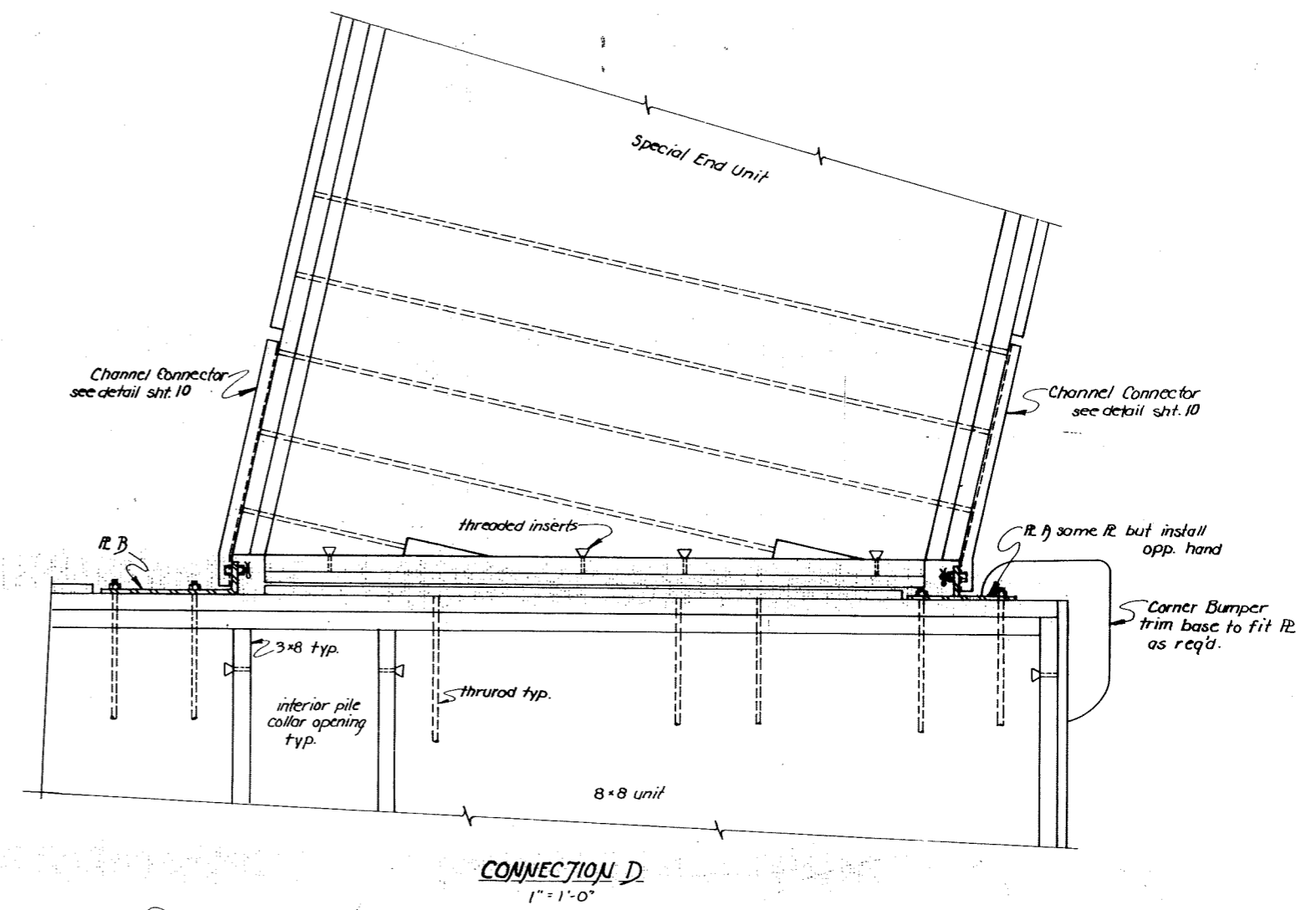
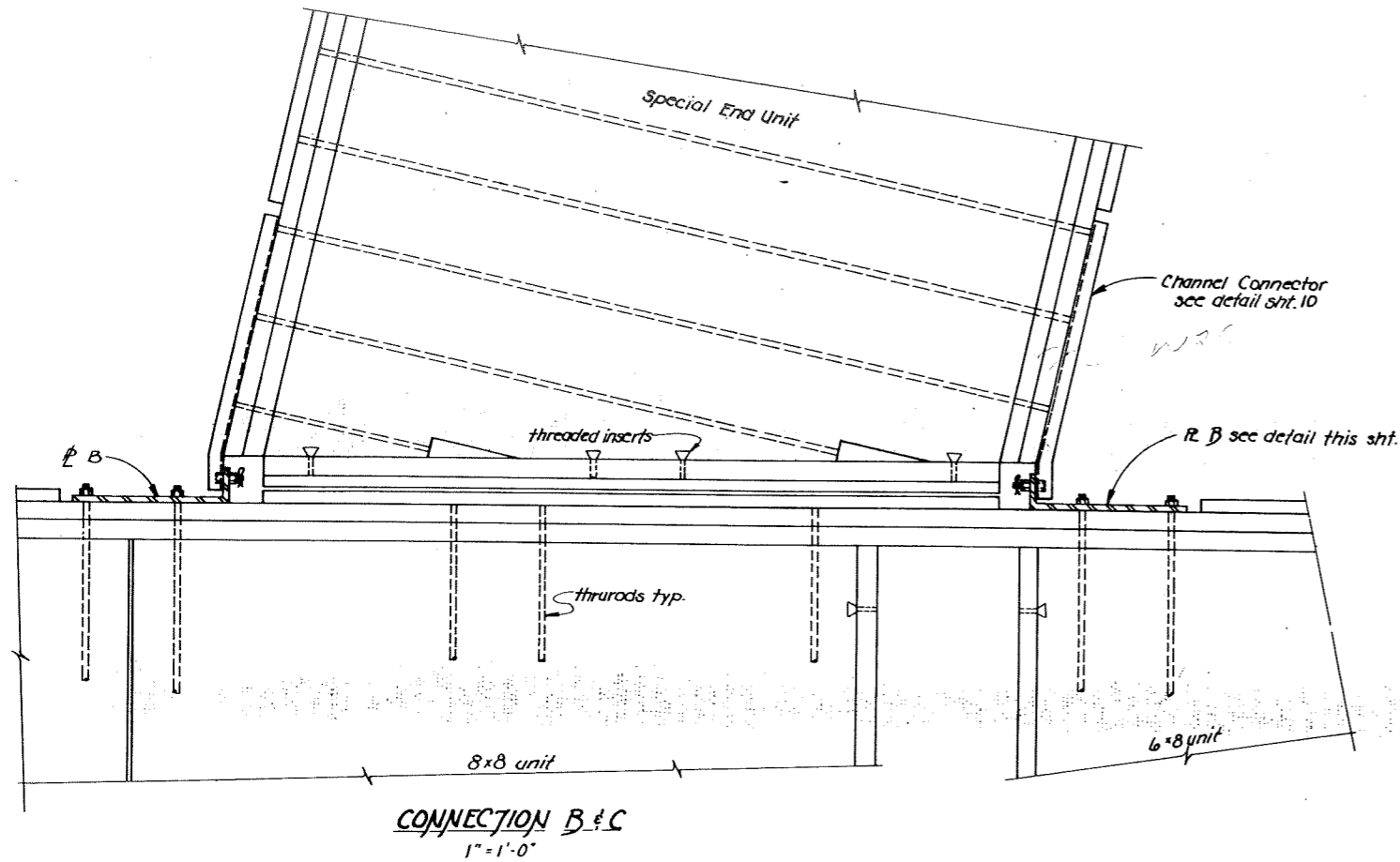


GANGWAY CONNECTION
1" = 1'-0"

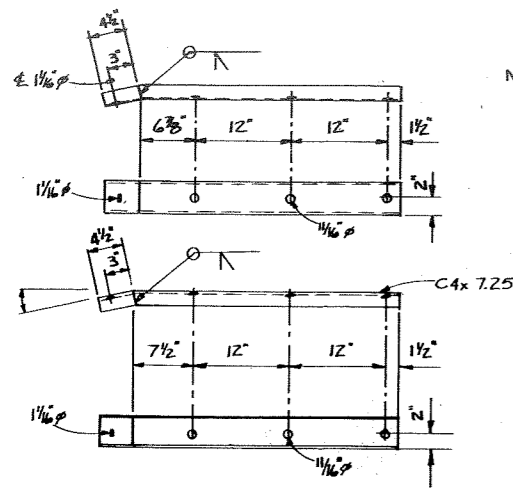


GANGWAY CONNECTION
1 1/2" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		FLOAT DETAILS	
SCALE AS SHOWN	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN RJI	Robert P. Beck	
CHECKED	DATE	CHIEF OF DESIGN	
PROJECT NUMBER	K 93109	SHEET	8 OF 36



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		FINGER FLOAT CONNECTION DETAILS	
SCALE as shown	SURVEYED	APPROVED:	
DESIGNED JDB	DRAWN CV	 ROBERT P. BECK CHIEF OF DESIGN	
CHECKED	DATE Feb. 17, 1981		
PROJECT NUMBER K 93109	SHEET 9 OF 36		

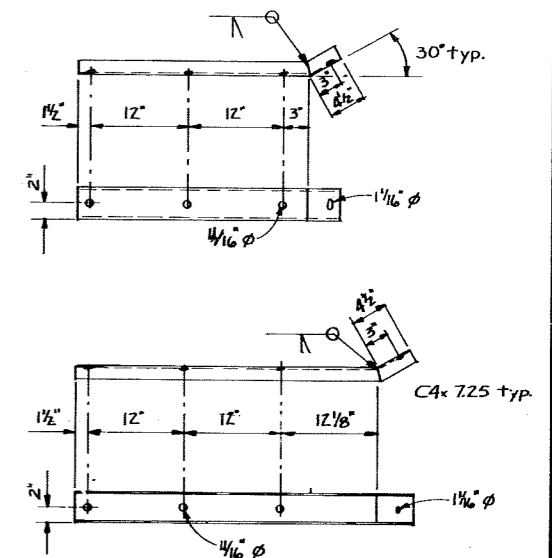


Note: 1" x 3" bolt w/ 1/8" thread, drilled for cotter key, to be welded to channel. See channel connector detail sheet 15

8x8 UNIT CHANNEL CONNECTORS

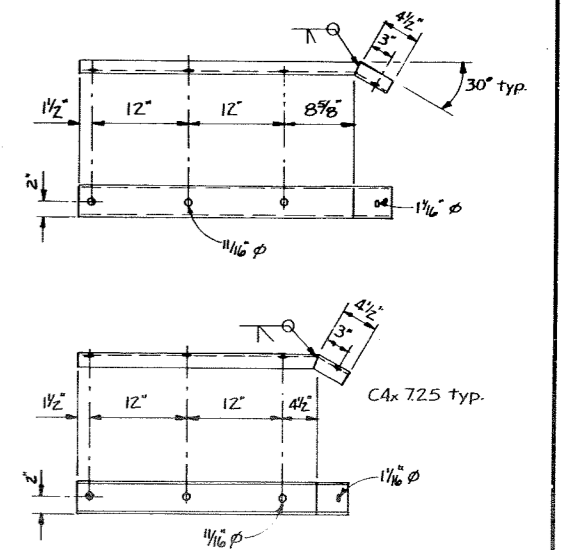
1" = 1'-0"

Note: 1" x 3" bolt w/ 1/8" thread, drilled for cotter key, to be welded to channel. See channel connector detail sheet 15



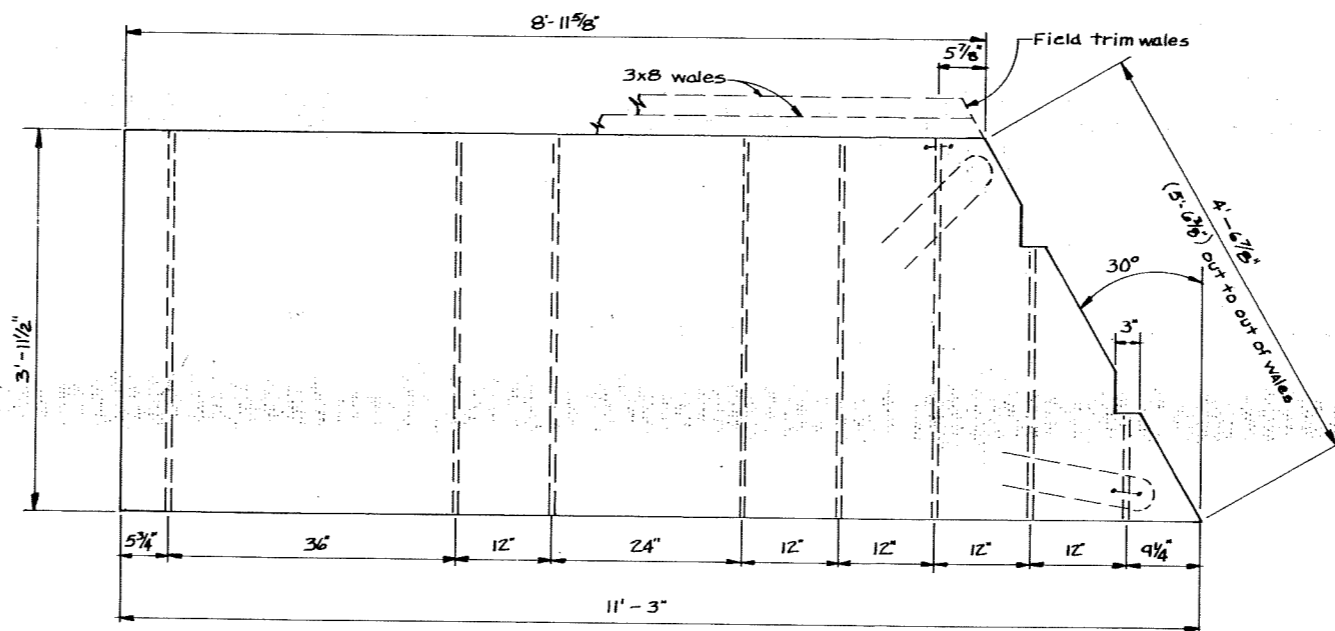
48' STALL CHANNEL CONNECTORS

1" = 1'-0"



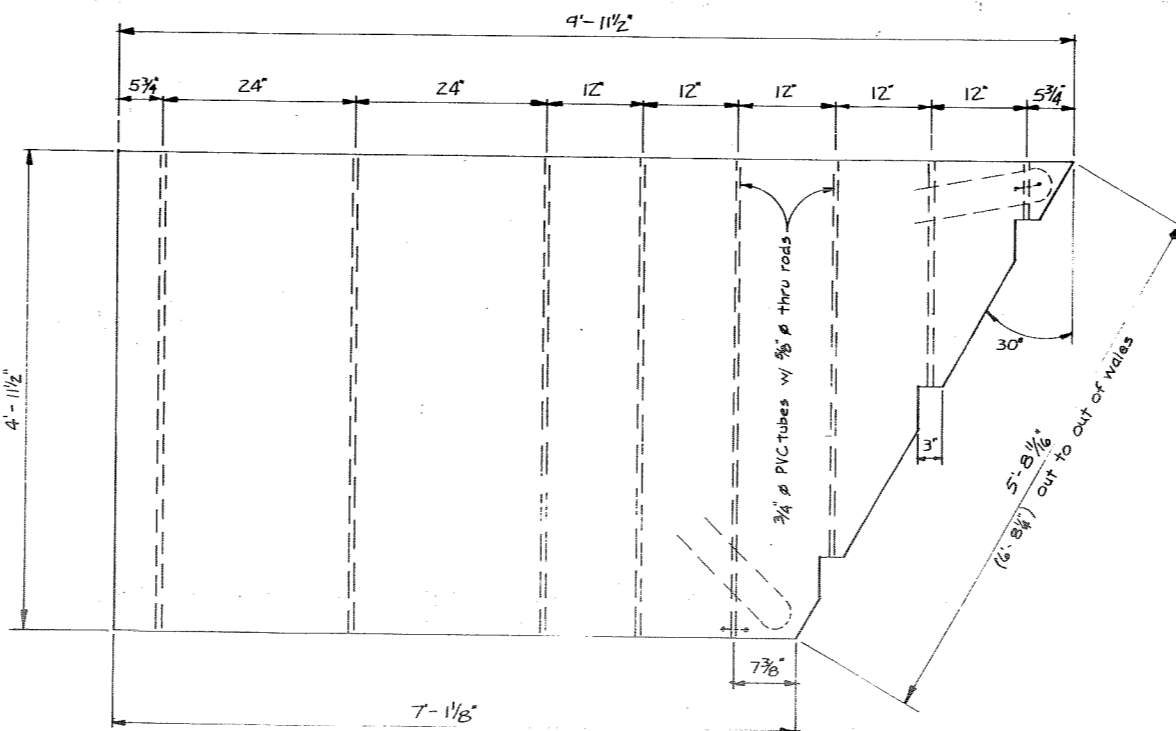
62' STALL CHANNEL CONNECTORS

1" = 1'-0"



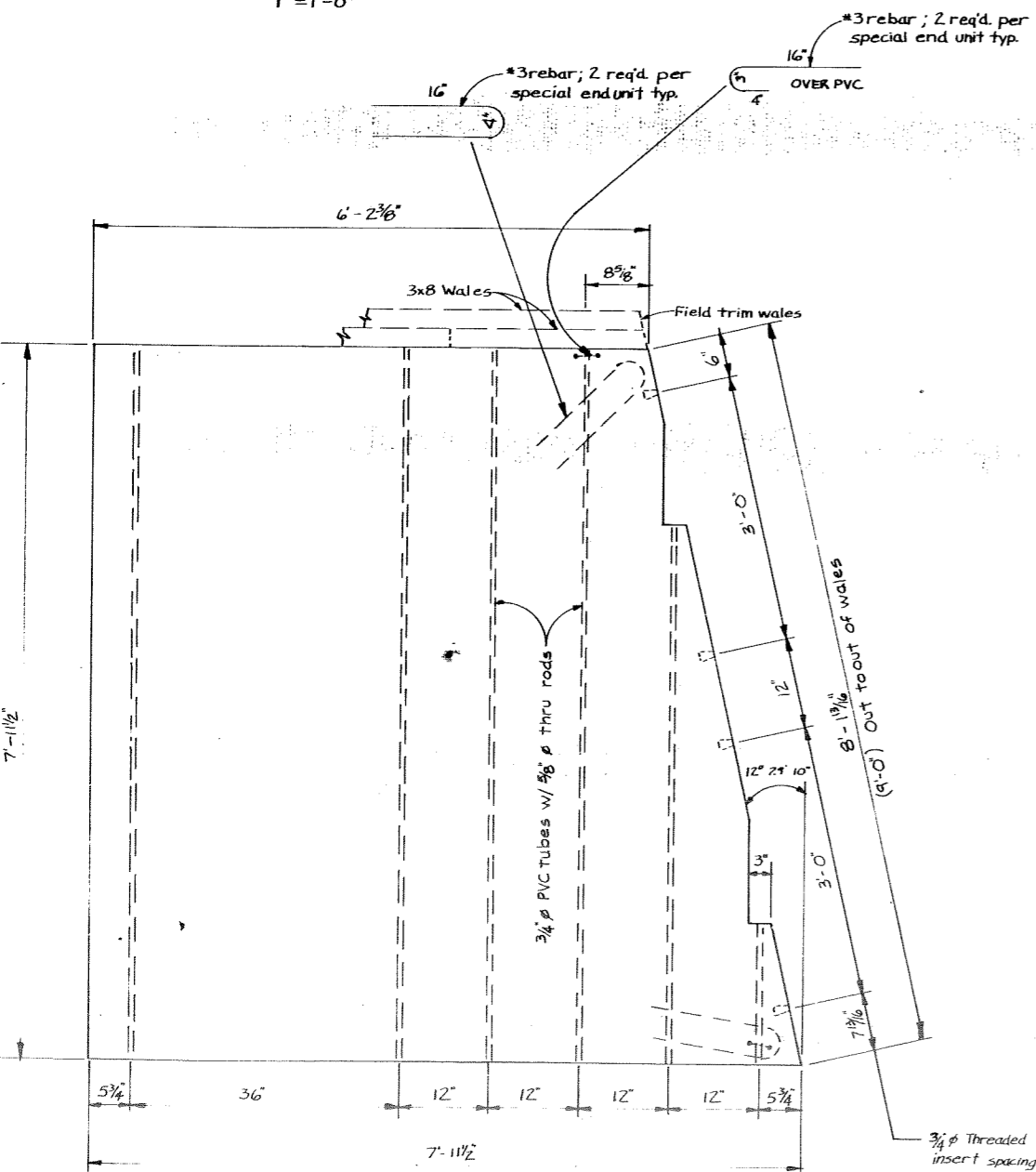
48' STALL SPECIAL END UNIT

1" = 1'-0"



62' STALL SPECIAL END UNIT

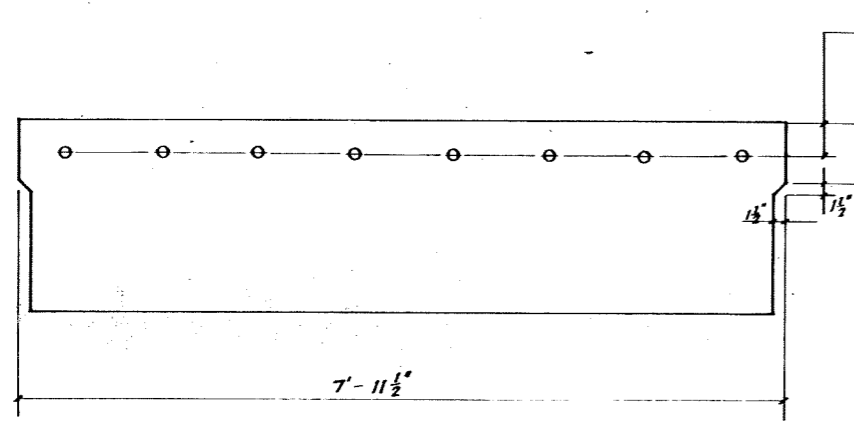
1" = 1'-0"



8x8 Special End Unit

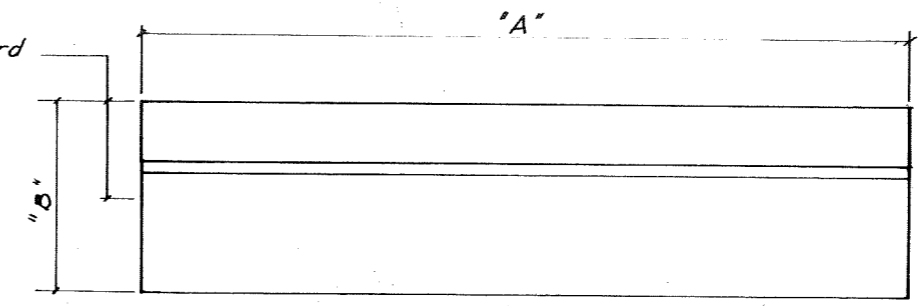
1" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		SPECIAL END UNITS ANGLED CHANNEL CONNECTORS	
SCALE AS NOTED	DESIGNED JOB	SURVEYED	APPROVED
CHECKED	DATE	DRAWN R.J.T.	Robert P. Beck
PROJECT NUMBER	K73109	DATE	CHIEF OF DESIGN
		SHEET	10 OF 36

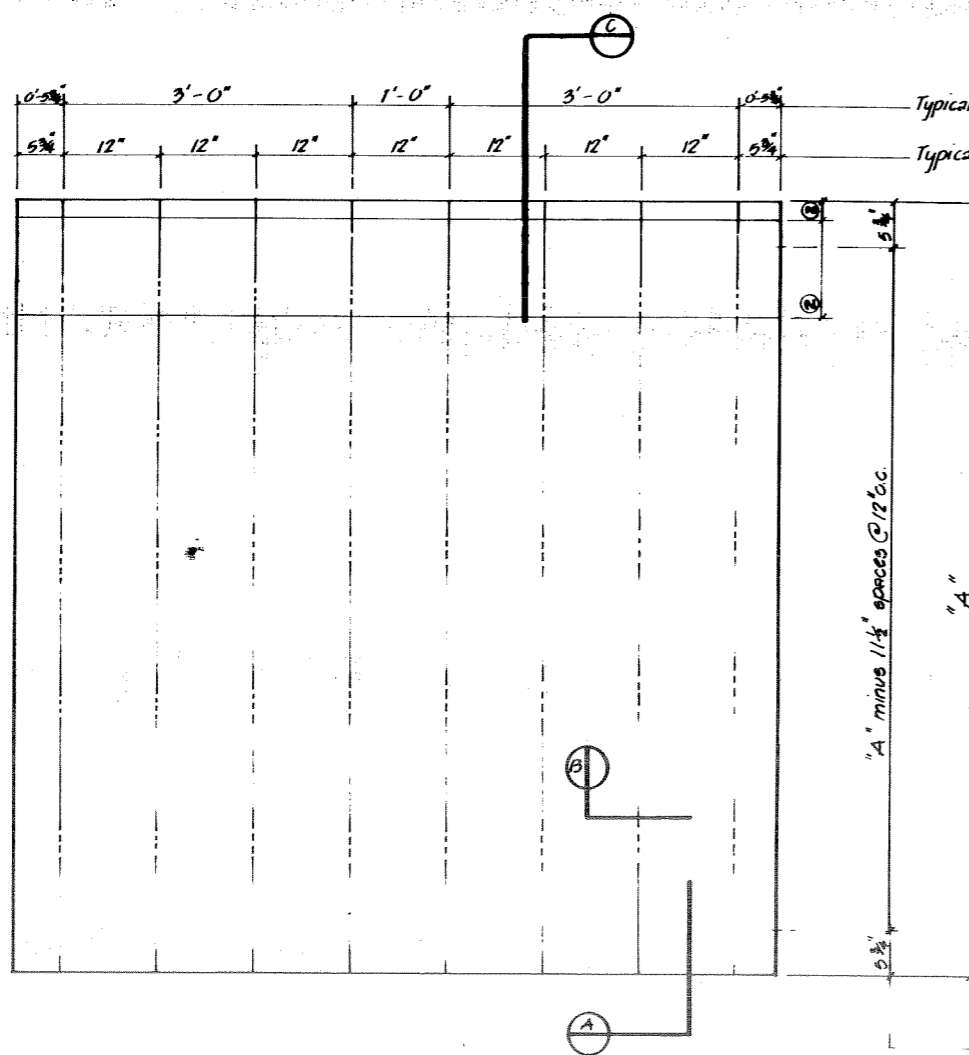


OUTBOARD ELEVATION
1" = 1'-0"

4" typical, PVC sleeves (and inserts)
7 1/2" typical each end.
12" Design Freeboard



END ELEVATION
1" = 1'-0"



PLAN
1" = 1'-0"

Typical thru rod spacing, see plan for additional rod requirements.
Typical 3/4" PVC sleeve spacing.

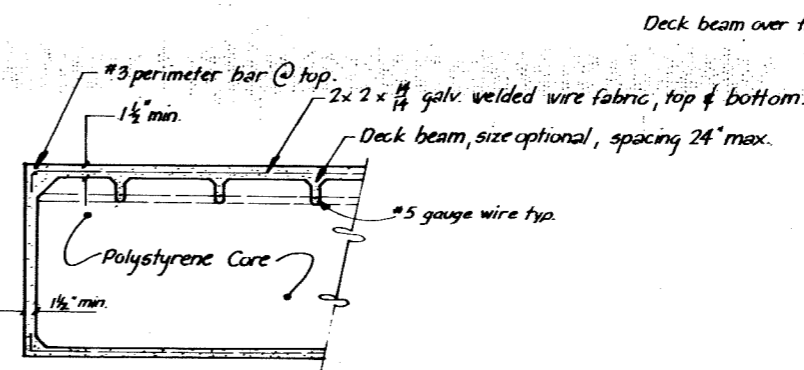
Design Freeboard 12" ①
Maximum Freeboard 14"
Minimum Freeboard 11"

Nominal Float	"A"	"B"	DIMENSION CONSTANT Pounds per linear ft.
6 x 6	5'-11 1/2"	Note ①	30.6
8 x 8	7'-11 1/2"	"	40.8
10 x 8	9'-11 1/2"	"	51.0
12 x 8	11'-11 1/2"	"	61.2

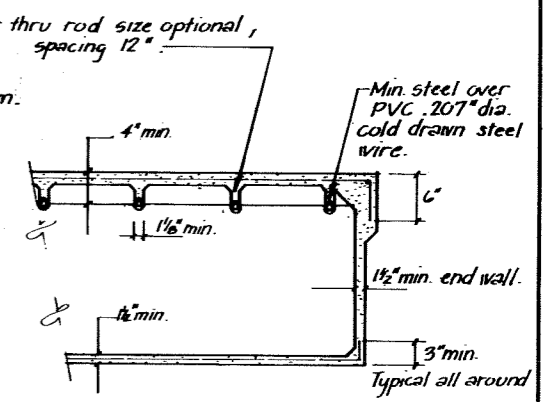
General Notes:
① Pontoon supplier to provide float unit w/ required freeboard. Allow 35 lbs. per linear foot for wales, bumper & utilities.
② Utility raceway location shown on layout drawings.

12" cont. 3x6" - W3xW3, shape as shown side trough only. Haunch typical all troughs. Cut cross wires to go around thru rods. See note ②

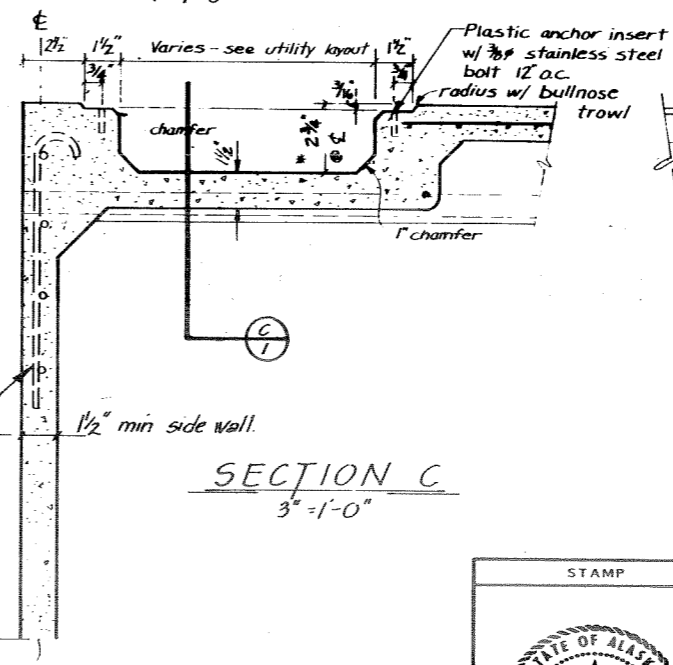
Threaded insert spacing, see plan layout for locations.



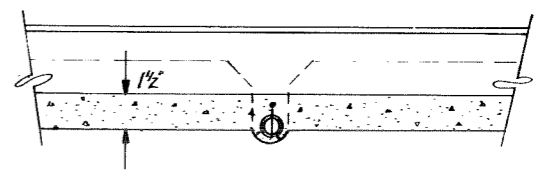
SECTION A
1" = 1'-0"



SECTION B
1" = 1'-0"



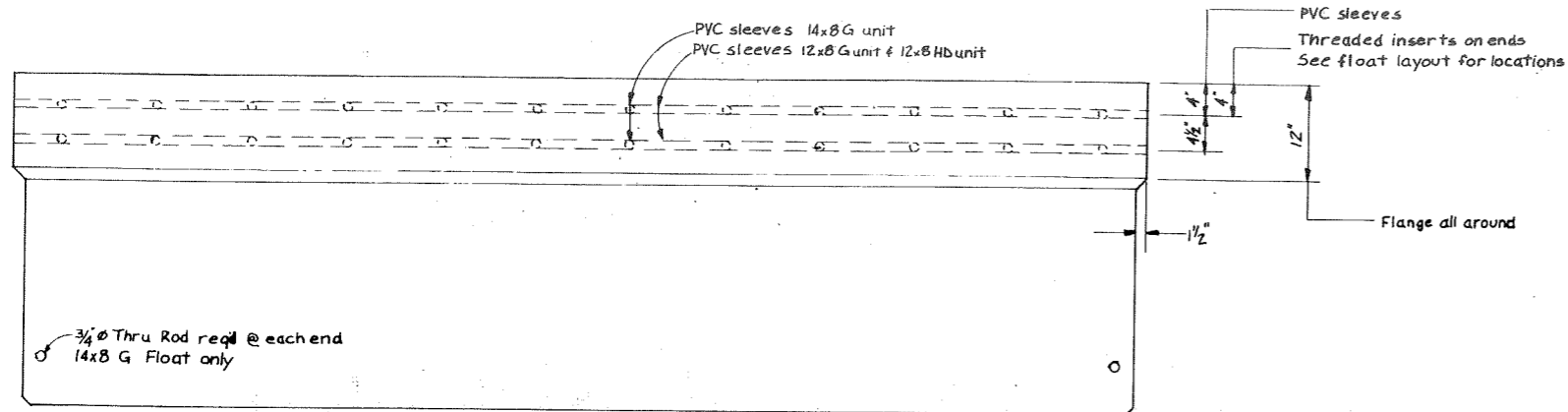
SECTION C
3" = 1'-0"



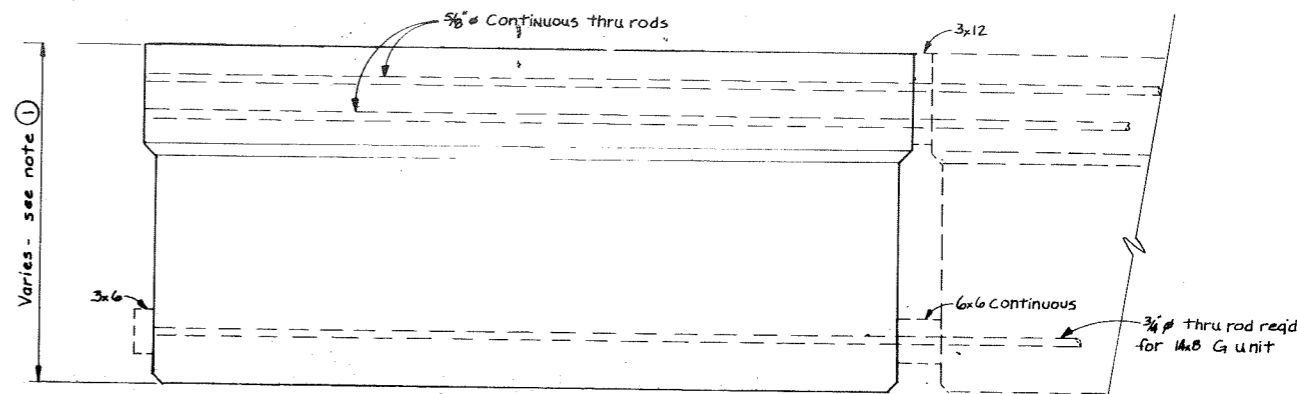
*Raceway to slope down from center of each unit 1/4" per 4" in both directions.

SECTION C
3" = 1'-0"

	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
Hoonah Alaska		TYPICAL FLOAT UNITS
SCALE As Shown	SURVEYED	APPROVED
DESIGNED	DRAWN	Robert P Beck
CHECKED	DATE 11-80	CHIEF OF DESIGN
PROJECT NUMBER K 93109	SHEET 11 OF 36	



OUTBOARD ELEVATION
1" = 1'-0"



END ELEVATION
1" = 1'-0"

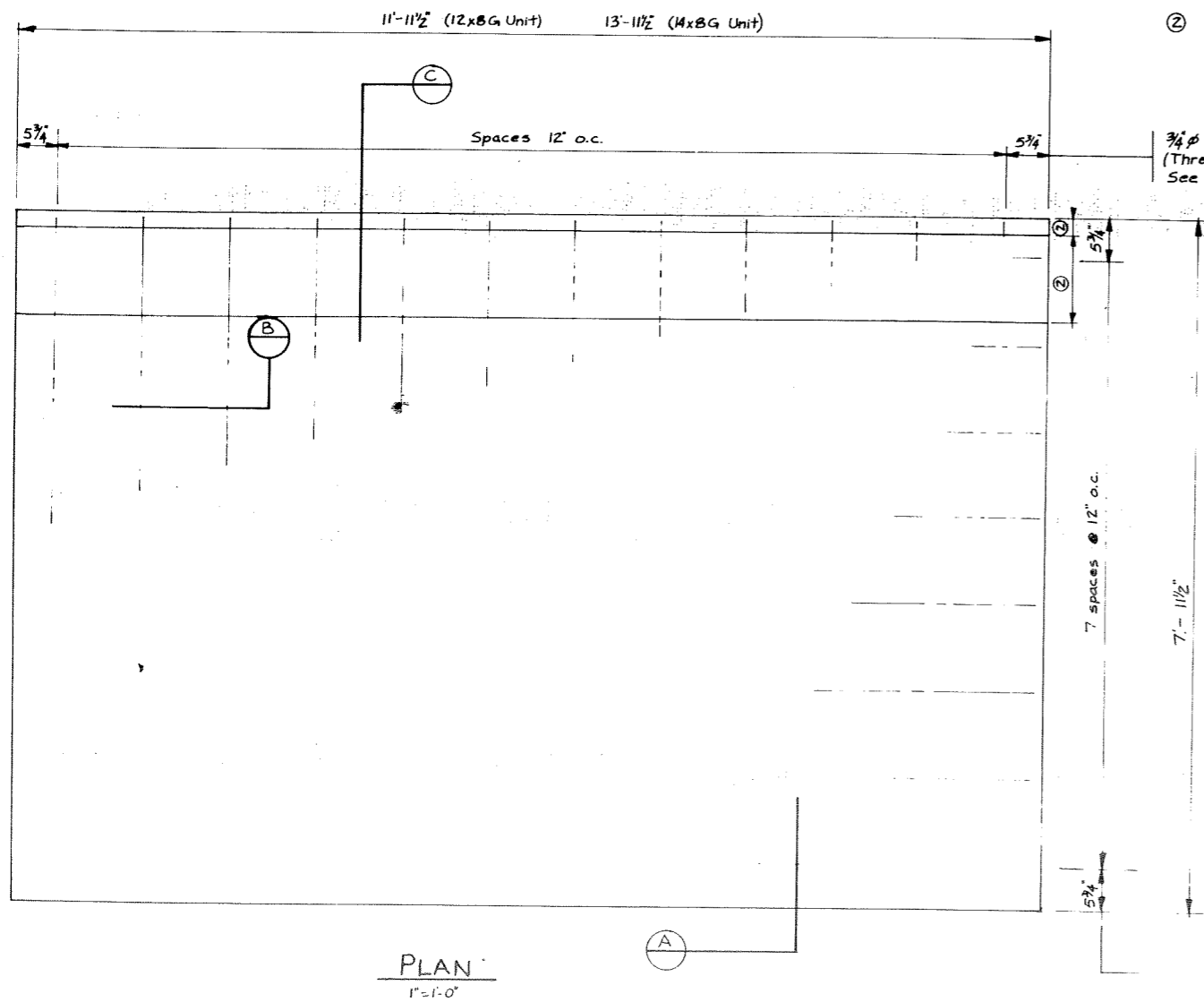
Design Freeboard 16' ①
Maximum Freeboard 18'
Minimum Freeboard 12'

Dimensions			Immersion Constant
Nominal Float	Width	Length	Lbs Per linear ft.
12x8 HD	11'-11 1/2"	7'-11 1/2"	61.2
12x8 G	11'-11 1/2"	7'-11 1/2"	61.2
14x8 G	7'-11 1/2"	13'-11 1/2"	40.8

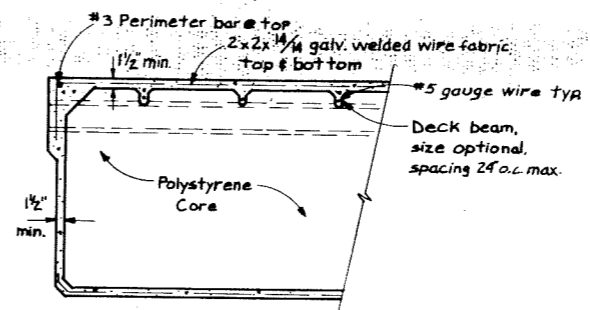
General Notes:

- ① Pontoon supplier to provide float unit w/ req'd. freeboard. Allow 35 lbs. per linear foot for wales, bumper & utilities on HD units. Allow 2000 lbs. per float unit for gangway on all G units.
- ② Utility raceway location shown on layout drawings.

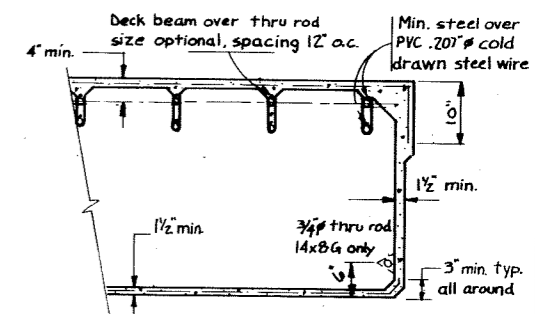
3/4" PVC sleeve spacing 14x8 G unit
(Threaded insert spacing 12x8 HD & 12x8 G units)
See float layout for locations



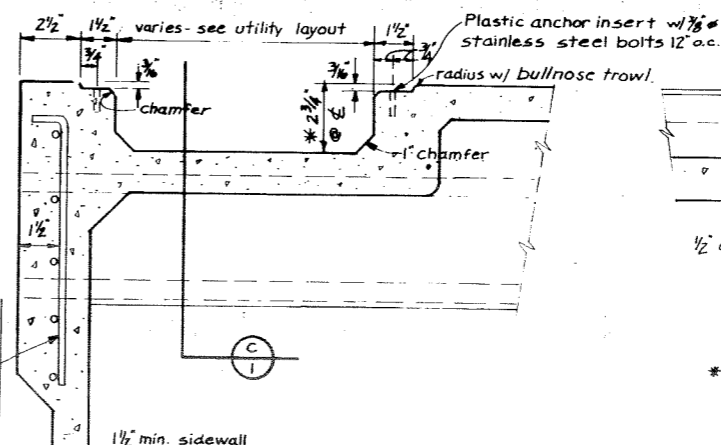
PLAN
1" = 1'-0"



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



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



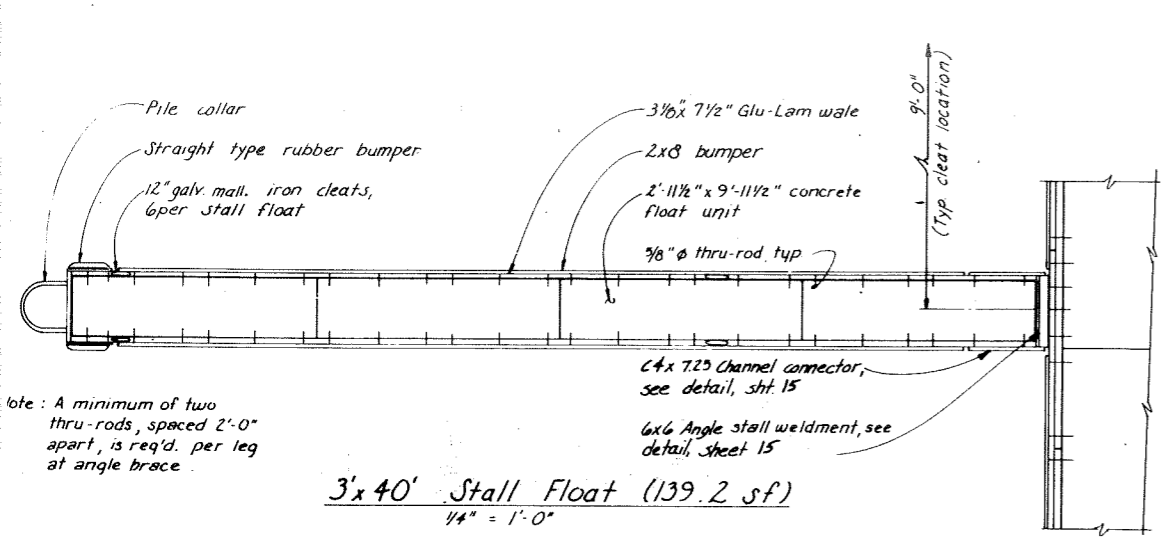
SECTION C
3" = 1'-0"

12' cont. 3x6" W3x3, Shape as shown side Trough only. Haunch typical all troughs. Cut cross wires to go around thru rods see note ②

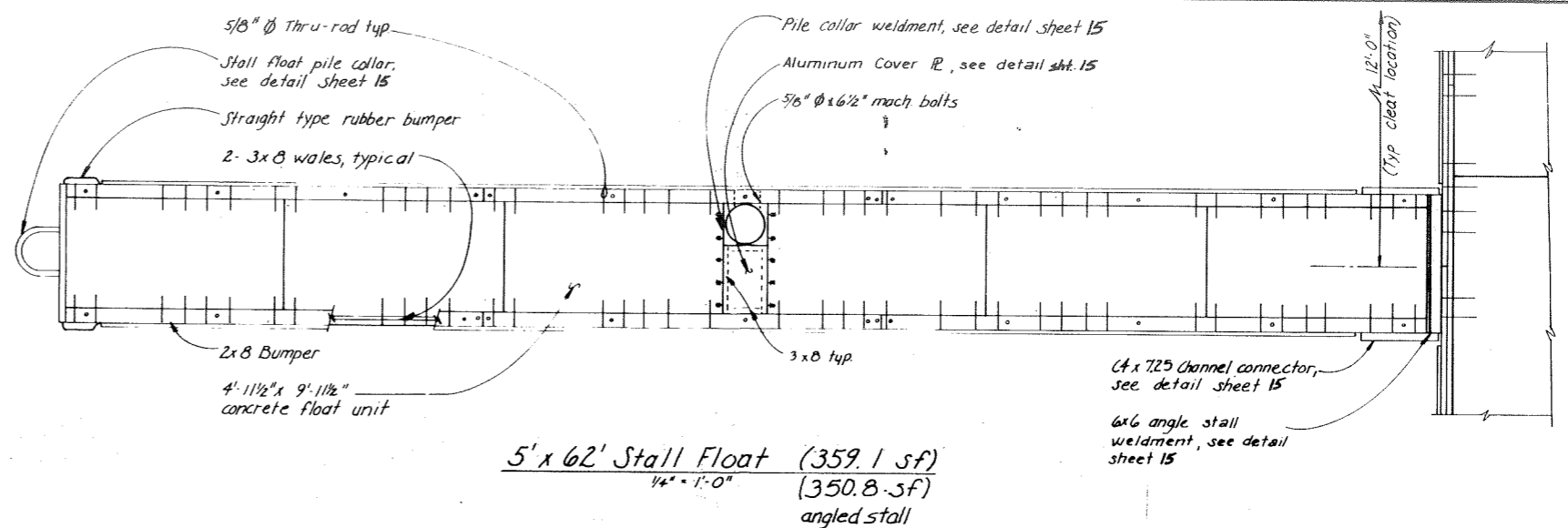
* Raceway to slope down from center of each unit 1/4" per 4" in both directions.

Threaded insert spacing 14x8 G unit See float layout for locations (3/4" PVC sleeve spacing 12x8 HD & 12x8 G units)

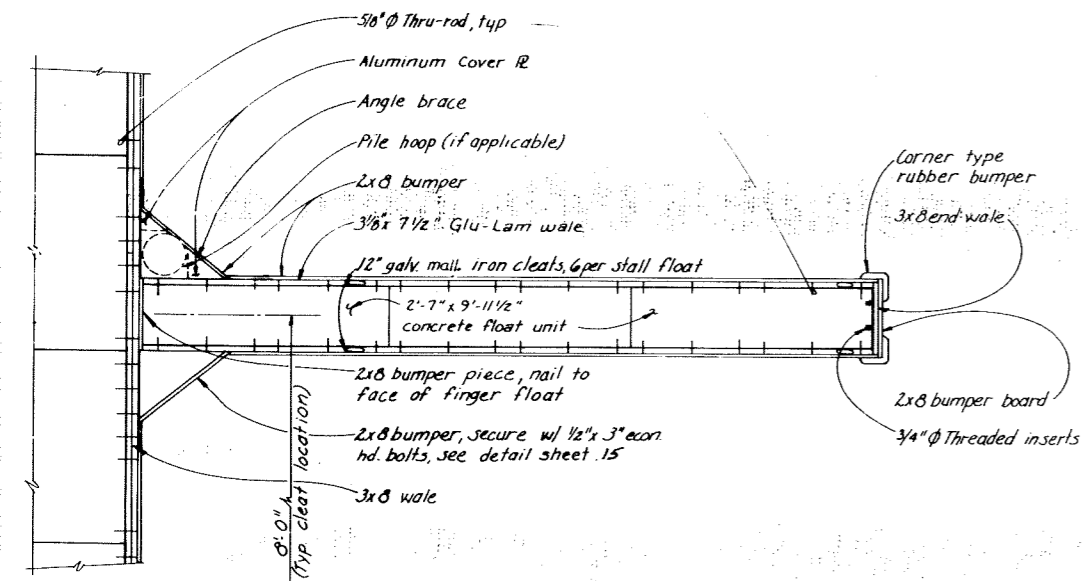
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
GANGWAY AND HEAVY DUTY FLOAT UNITS			
SCALE As noted	SURVEYED	APPROVED	
DESIGNED	DRAWN RJT/cv	 Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE		
PROJECT NUMBER	K 93109	SHEET 12 OF 36	



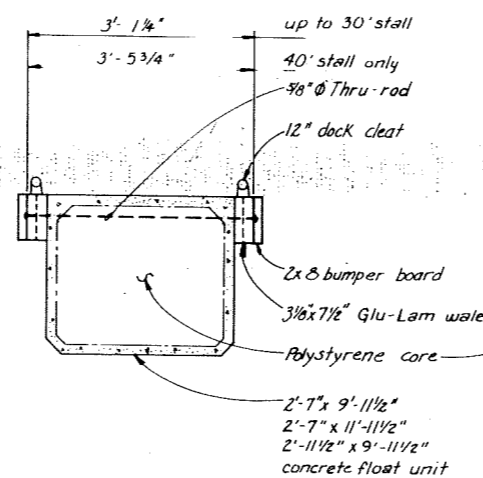
3' x 40' Stall Float (139.2 sf)
1/4" = 1'-0"



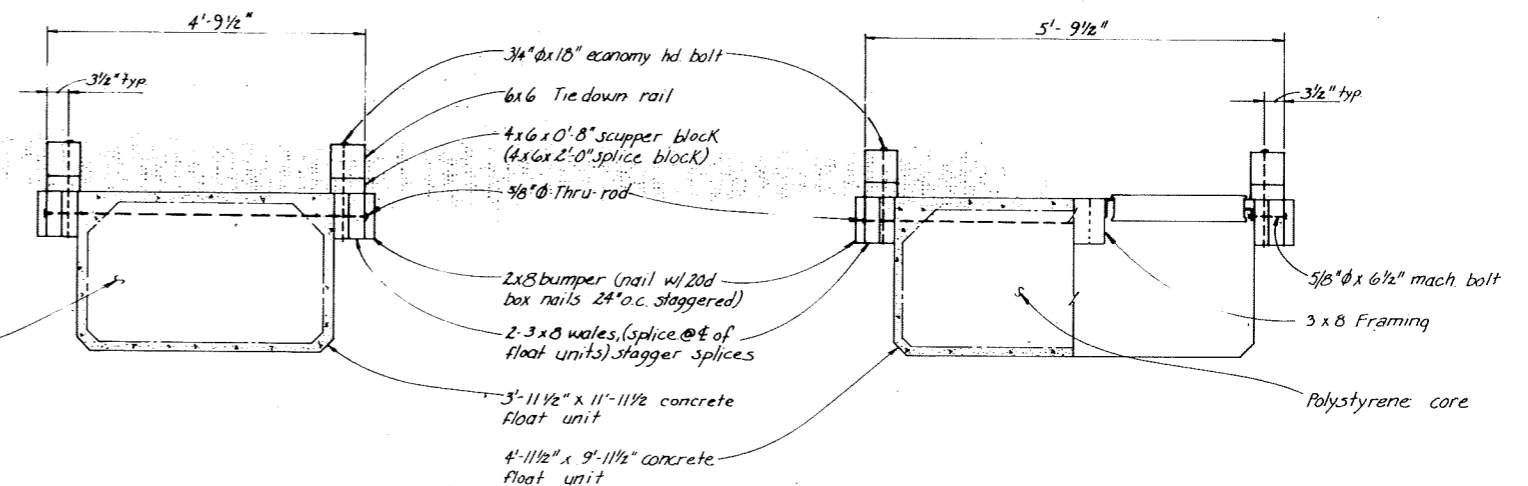
5' x 62' Stall Float (359.1 sf)
1/4" = 1'-0"
(350.8 sf) angled stall



3' x 30' Stall Float (105.1 sf)
1/4" = 1'-0"

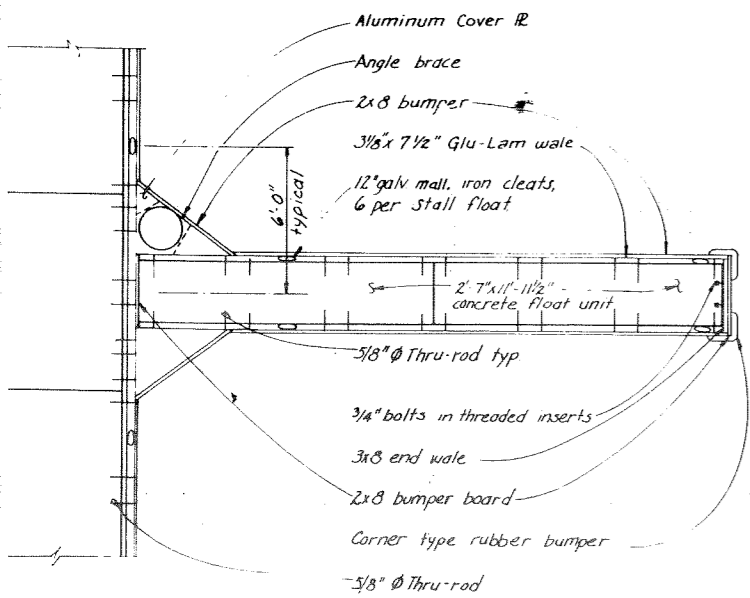


3' Stall Section
3/4" = 1'-0"

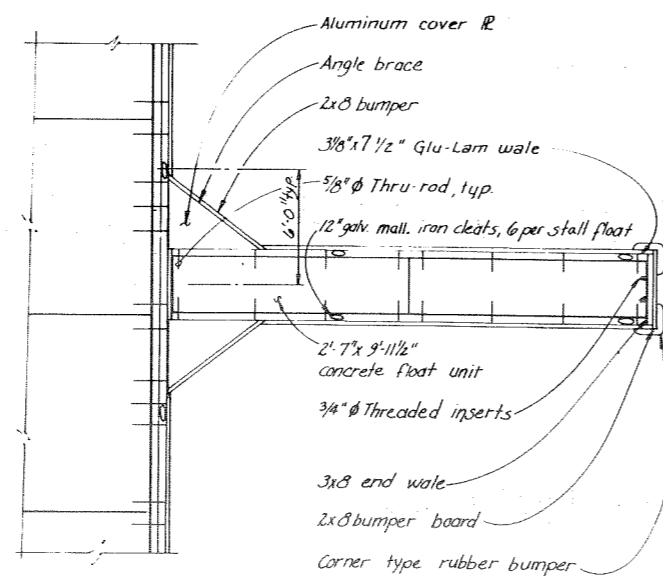


4' Stall Section
3/4" = 1'-0"

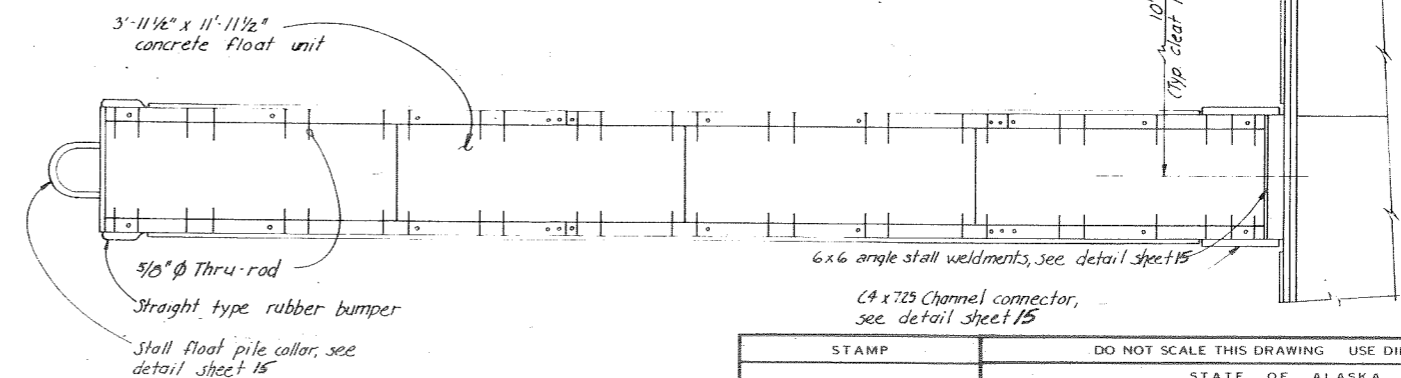
5' Stall Section
3/4" = 1'-0"



3' x 24' Stall Floats (86.5 sf)
1/4" = 1'-0"

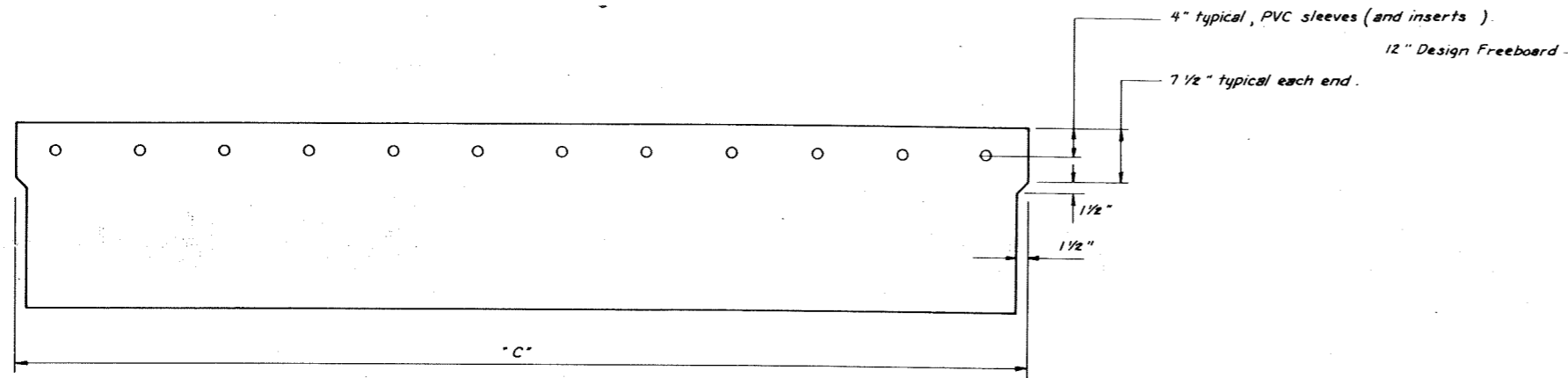


3' x 20' Stall Floats (74.1 sf)
1/4" = 1'-0"

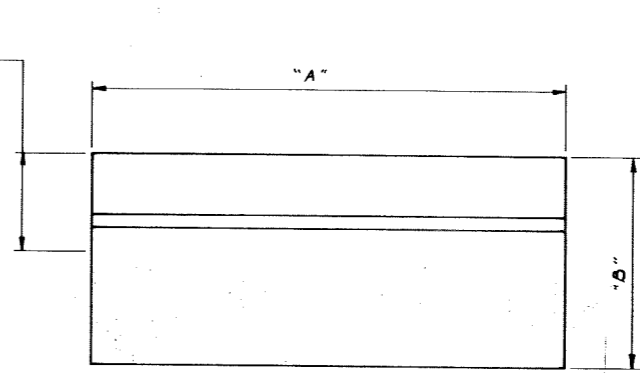


4' x 48' Stall Floats (230.0 sf)
1/4" = 1'-0"
(221.1 sf) angled stall

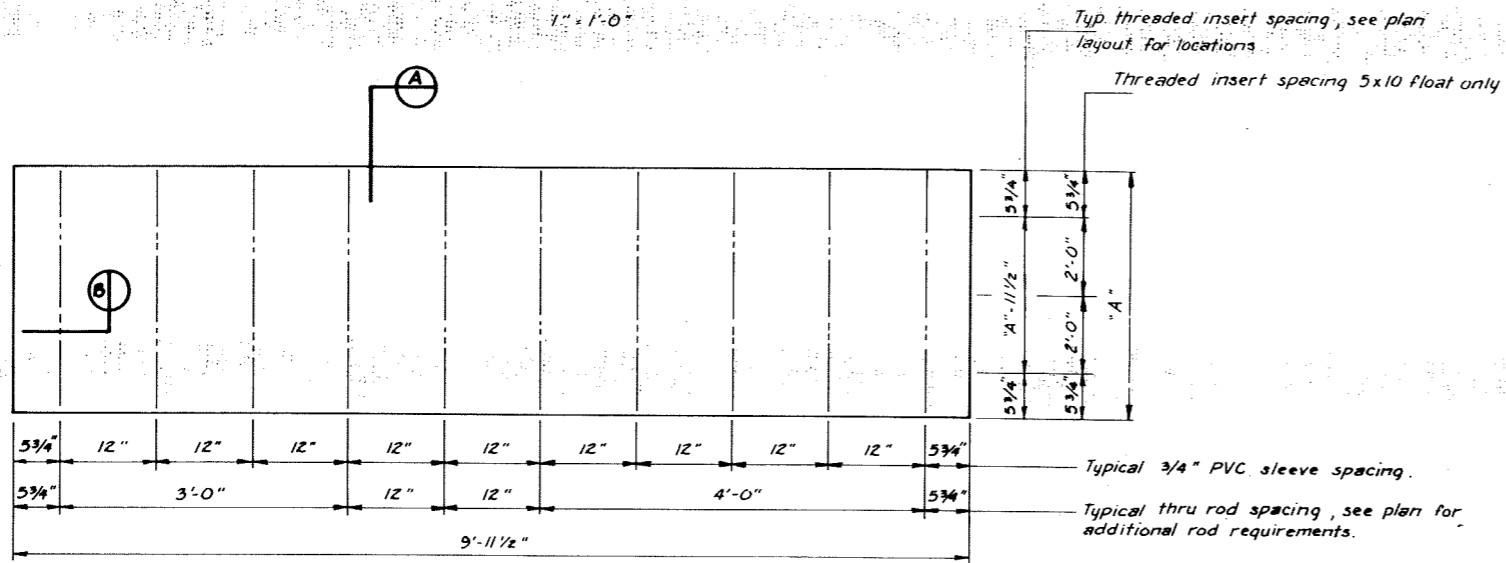
STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
TYPICAL STALL FLOATS			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED	DRAWN SJS	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE		
PROJECT NUMBER	K 93109	SHEET 13 OF 36	



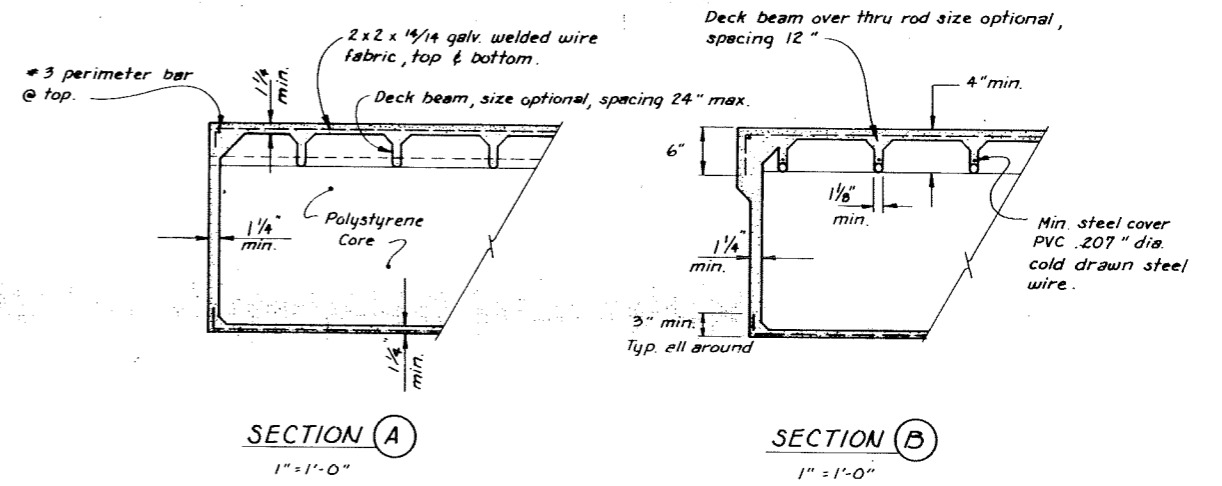
OUTBOARD ELEVATION
1" = 1'-0"



END ELEVATION
1" = 1'-0"

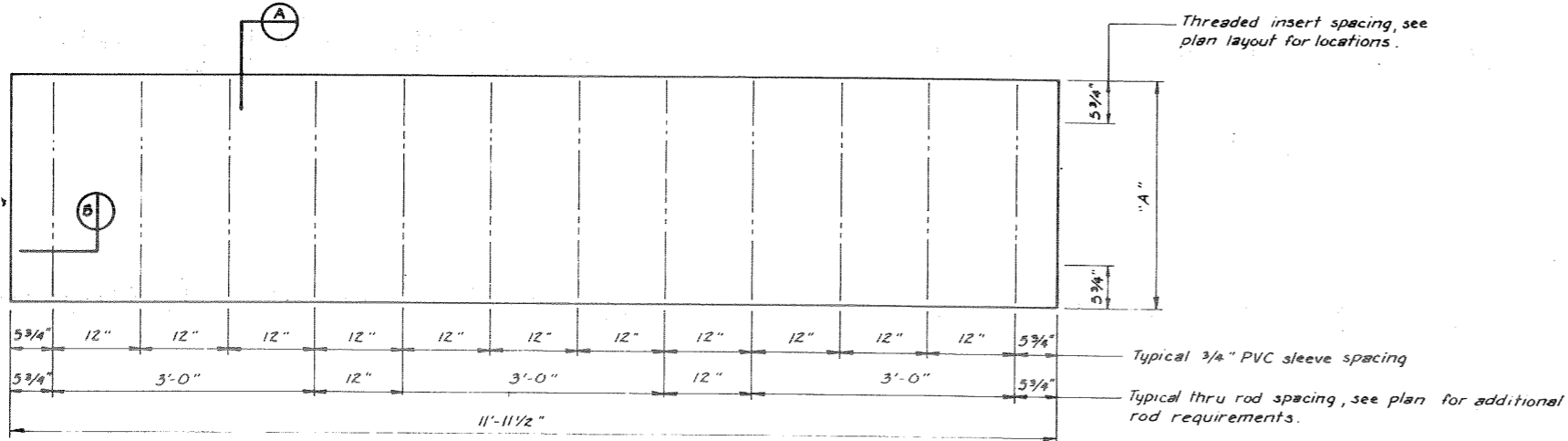


PLAN
1" = 1'-0"



SECTION A
1" = 1'-0"

SECTION B
1" = 1'-0"



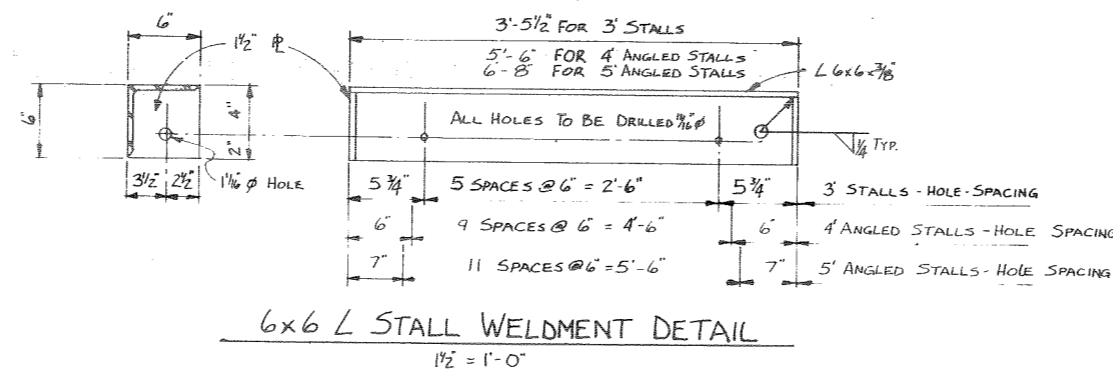
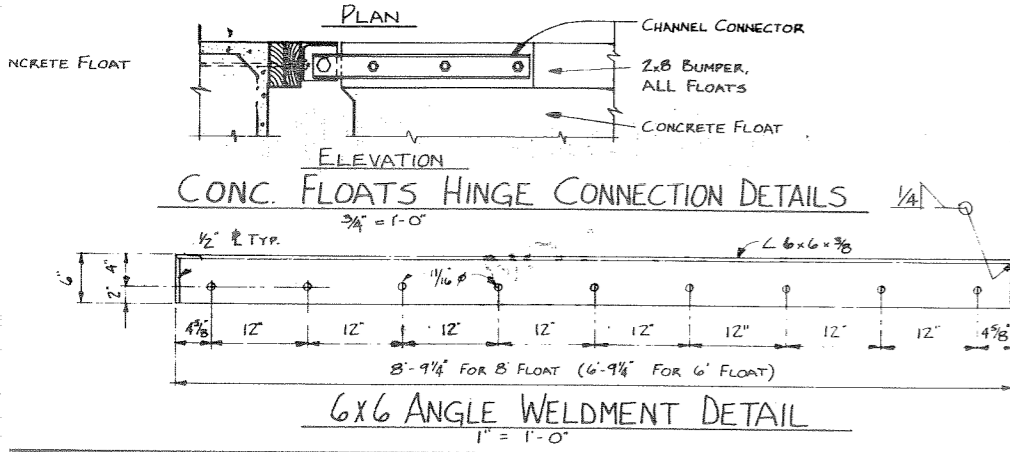
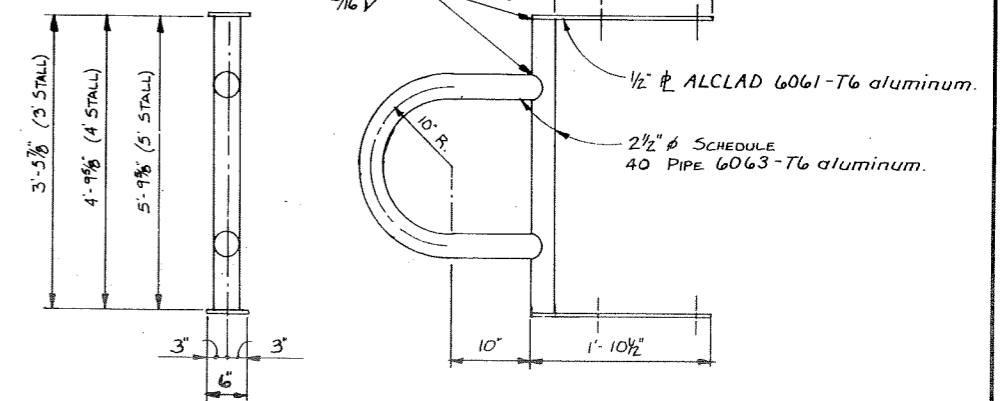
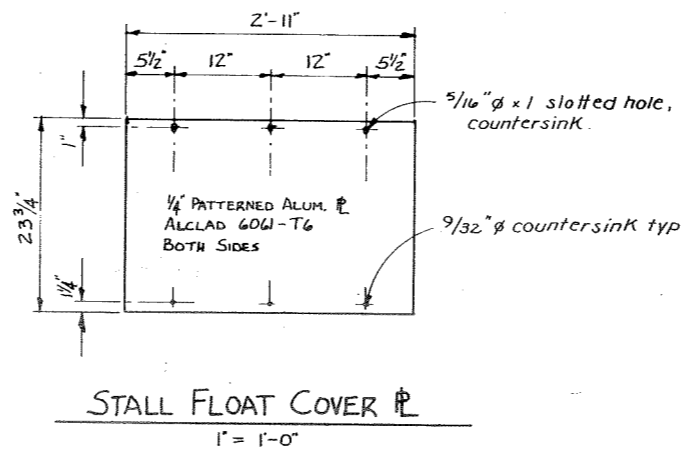
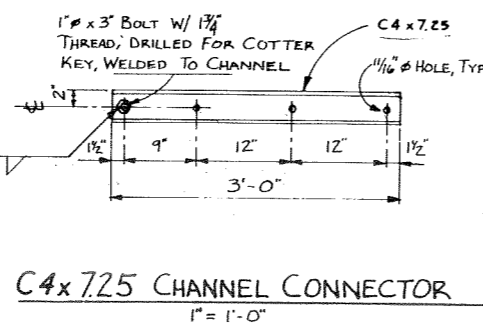
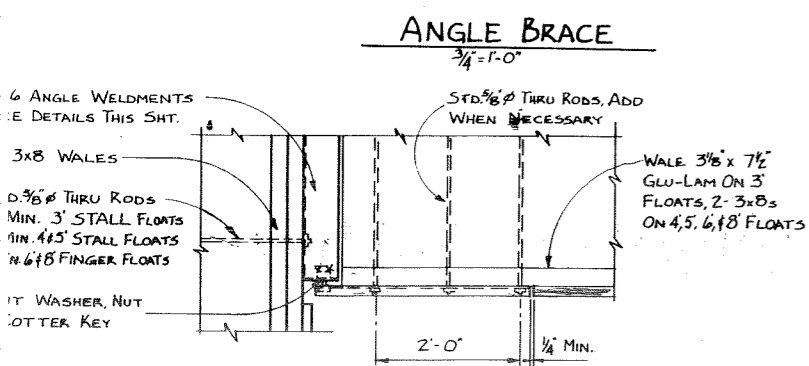
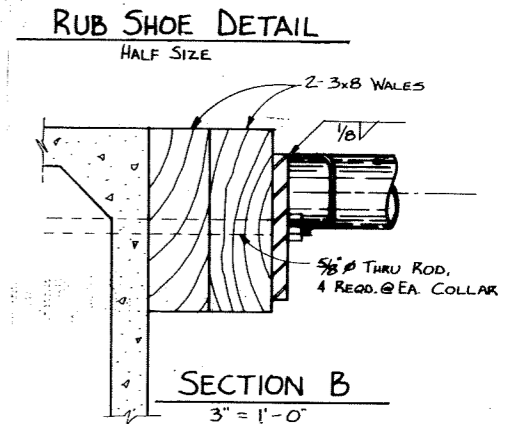
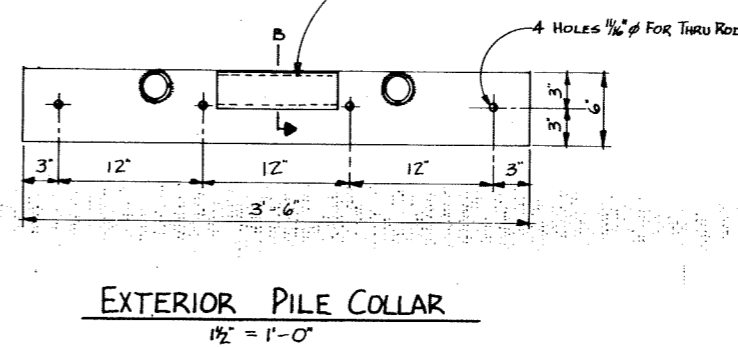
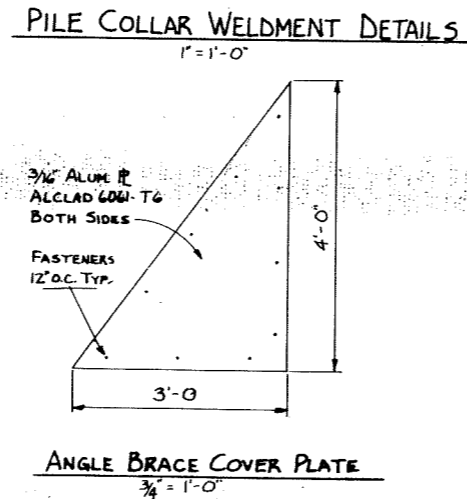
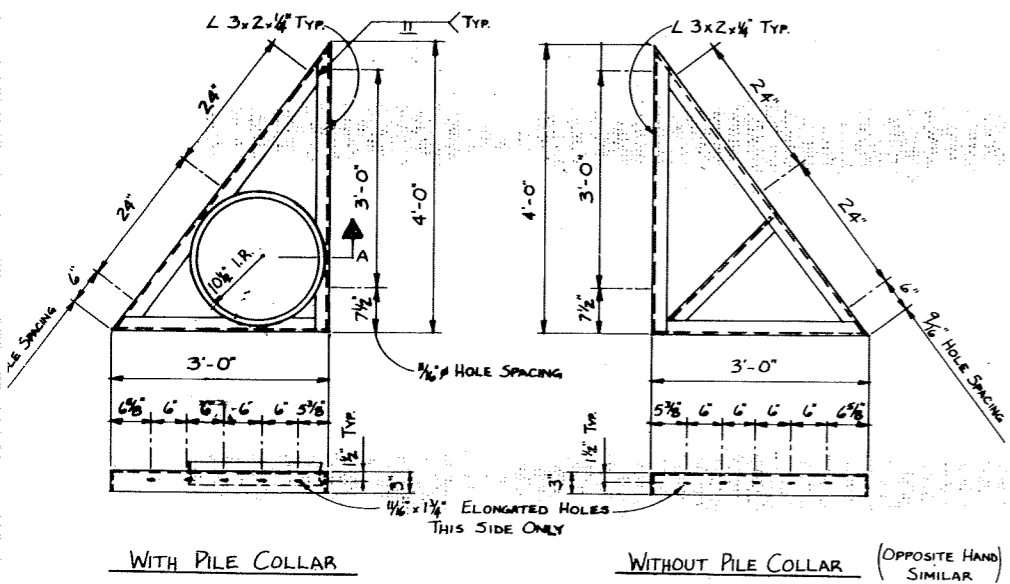
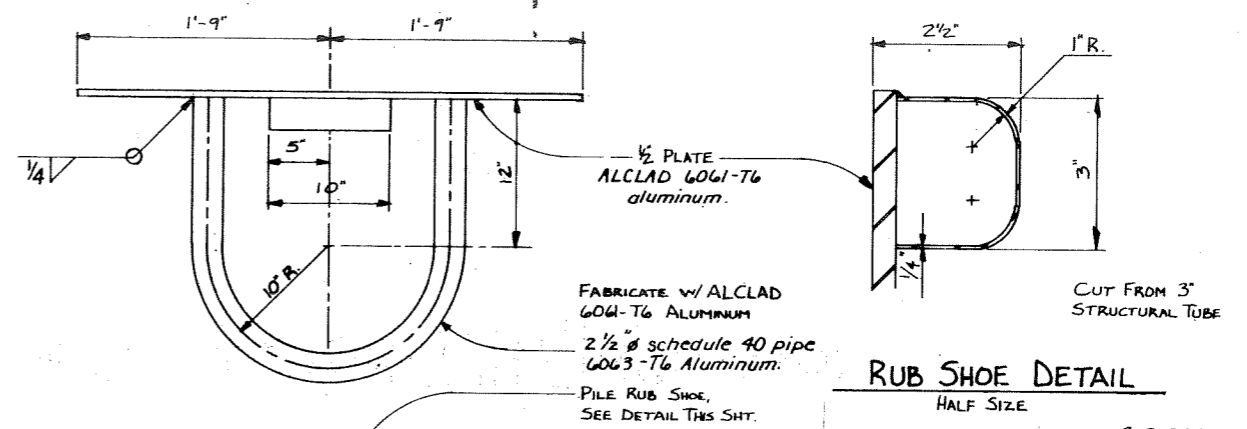
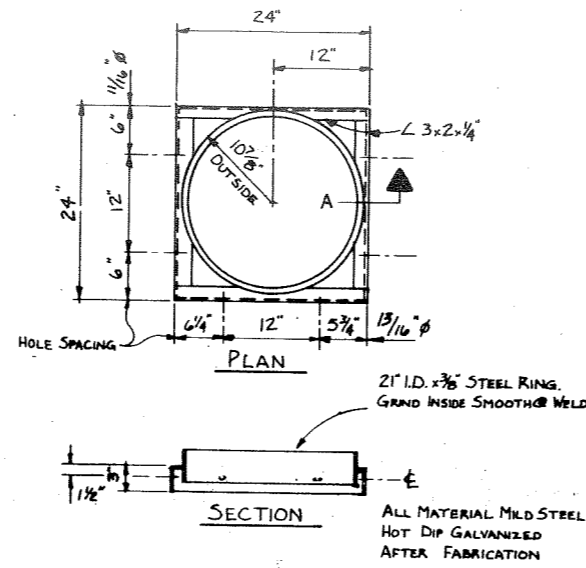
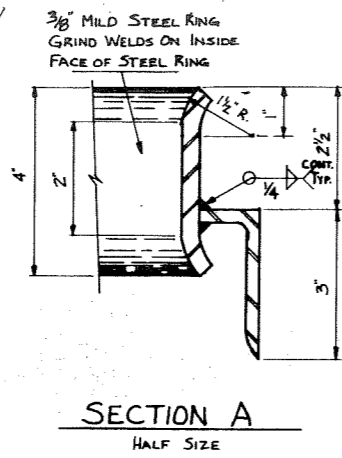
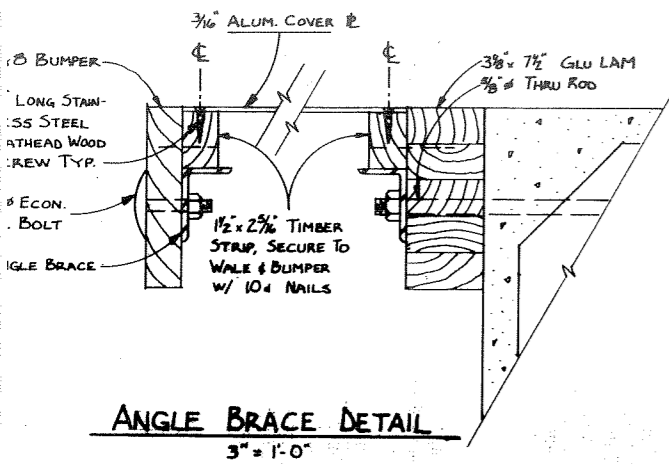
PLAN
1" = 1'-0"


General Notes:
 ① Pontoon supplier to provide float unit w/ required freeboard.
 Allow 16.4 lbs. per lin. ft. for 3' wide float and 26.0 lbs. per lin. ft. for 4' & 5' wide floats for wales & bumpers.

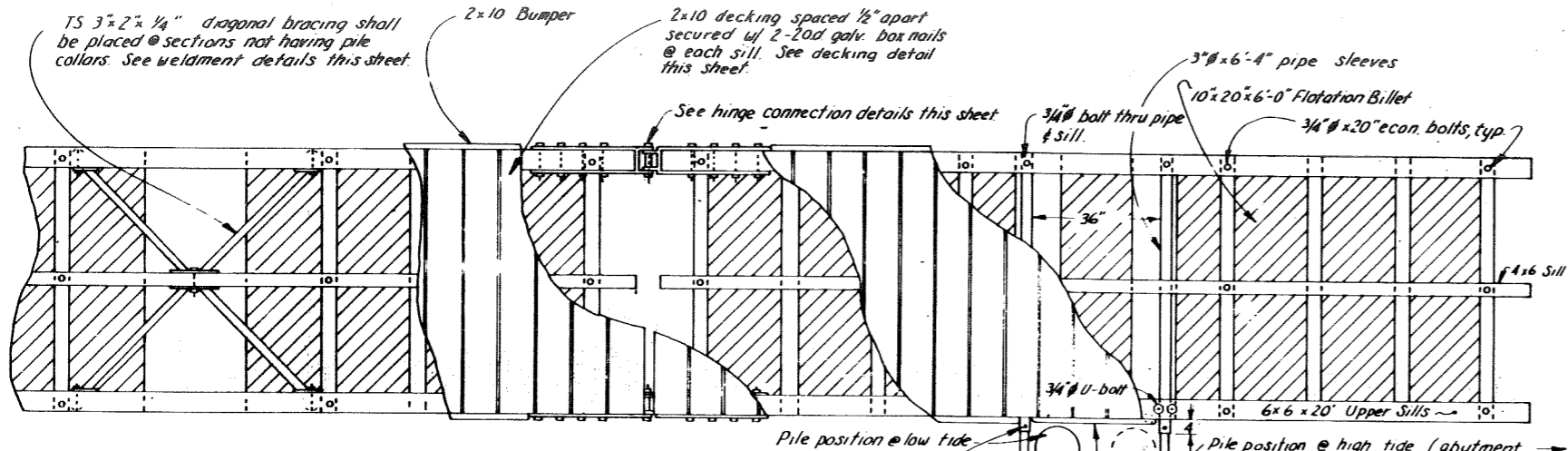
Nom Float	DIMENSIONS			IMMERSION CONSTANT
	"A"	"B"	"C"	Pounds per linear ft.
3 x 10	2'-7"	Note 1	9'-11 1/2"	13.4
3 x 12	2'-7"	"	11'-11 1/2"	13.4
4 x 12	3'-11 1/2"	"	11'-11 1/2"	20.6
5 x 10	4'-11 1/2"	"	9'-11 1/2"	21.4
3 x 10	2'-11 1/2"	"	9'-11 1/2"	15.8

Design Freeboard 12" ①
 Maximum Freeboard 14"
 Minimum Freeboard 11"

	DO NOT SCALE THIS DRAWING USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
	Hoonah	Alaska
	TYPICAL STALL FLOAT UNITS	
SCALE As Noted	SURVEYED TS	APPROVED
DESIGNED	DRAWN TS	Robert P Beck
CHECKED	DATE 10/80	CHIEF OF DESIGN
PROJECT NUMBER K93109	SHEET 14 OF 36	



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		HOONAH ALASKA	
CONCRETE STALL FLOAT WELDMENTS & MISCELLANEOUS DETAILS			
SCALE AS NOTED	SURVEYED	APPROVED	
DESIGNED	DRAWN KJT	Robert P. Beck	
CHECKED	DATE	CHIEF OF DESIGN	
PROJECT NUMBER	K 93109	SHEET 15 OF 36	



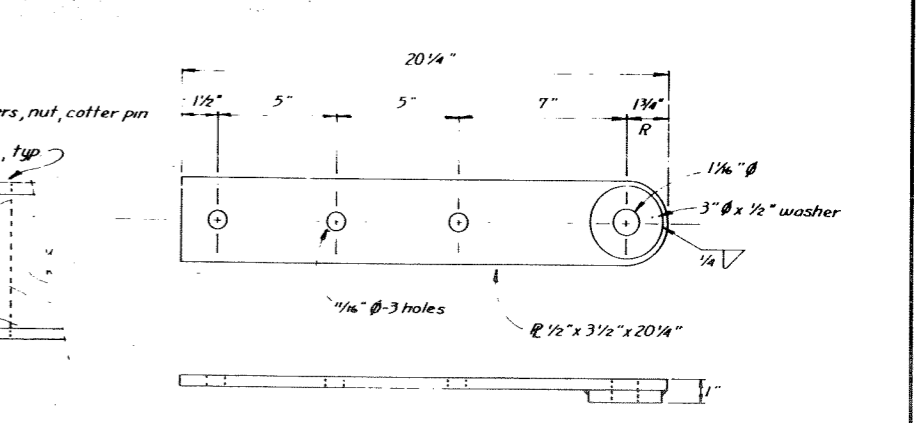
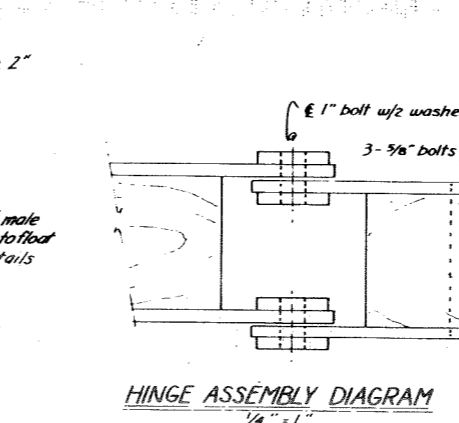
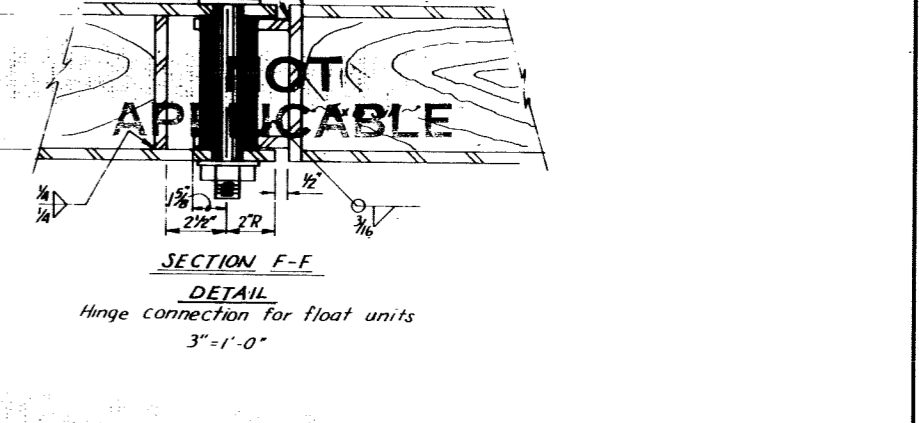
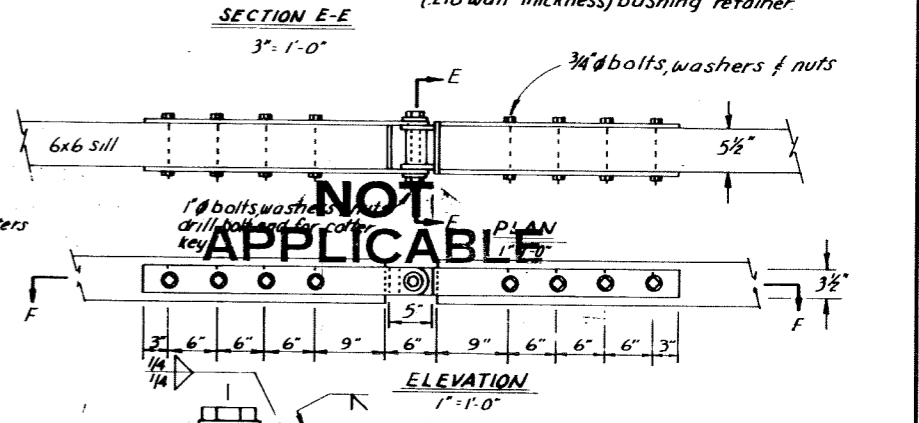
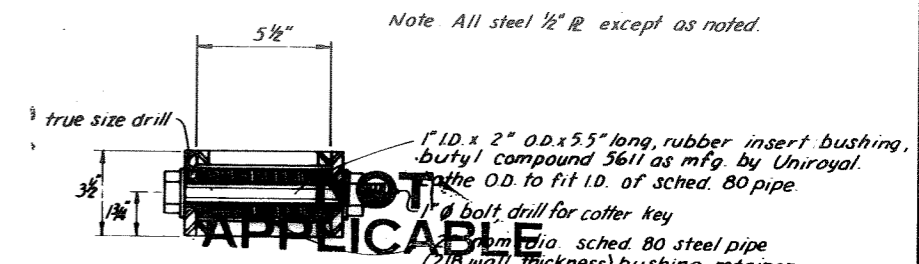
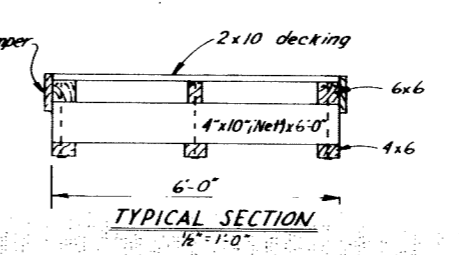
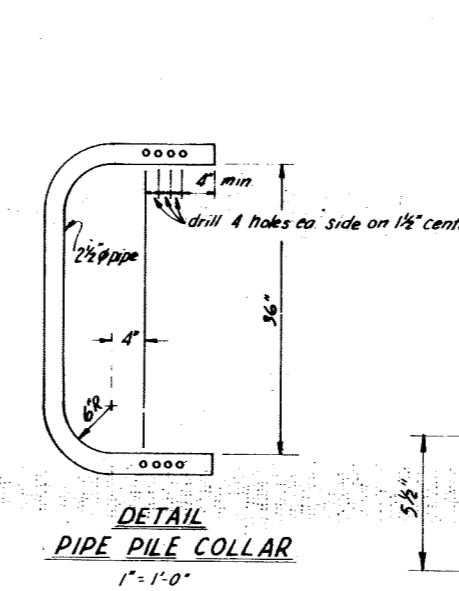
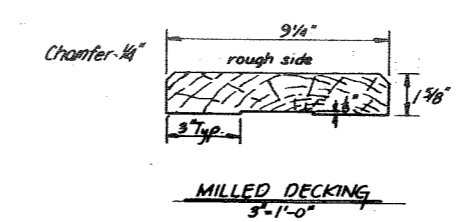
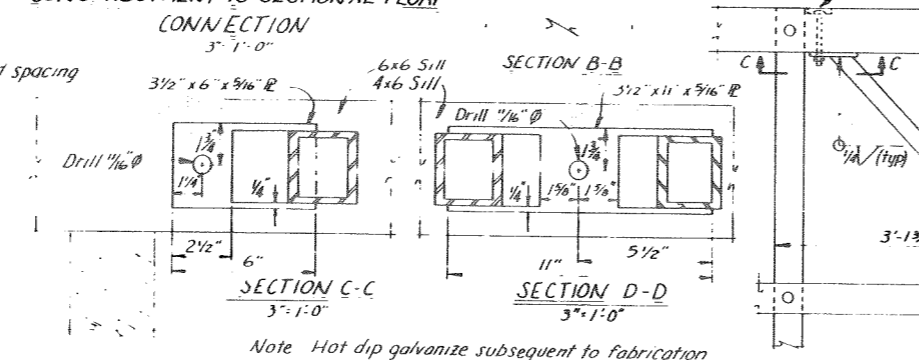
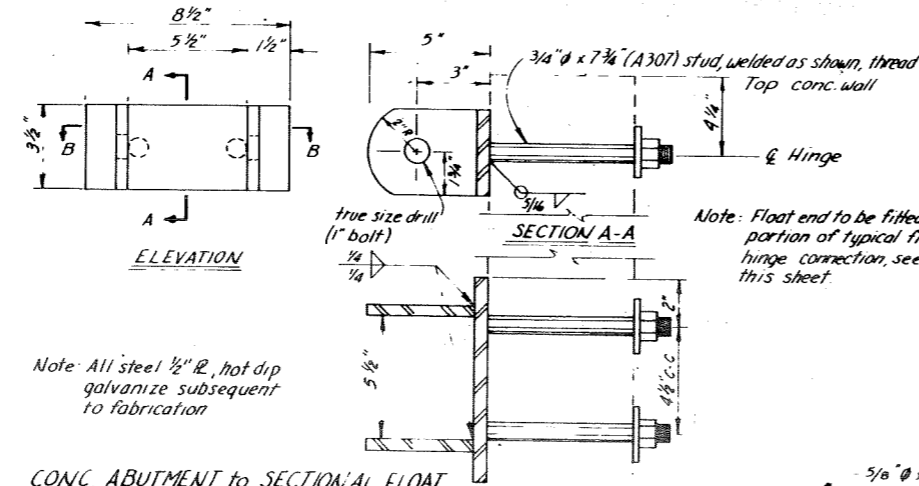
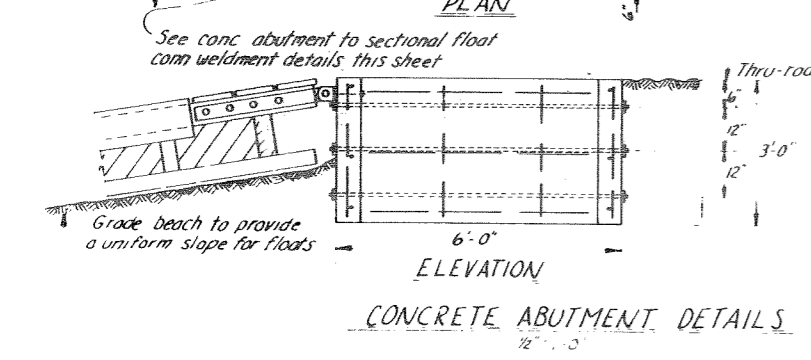
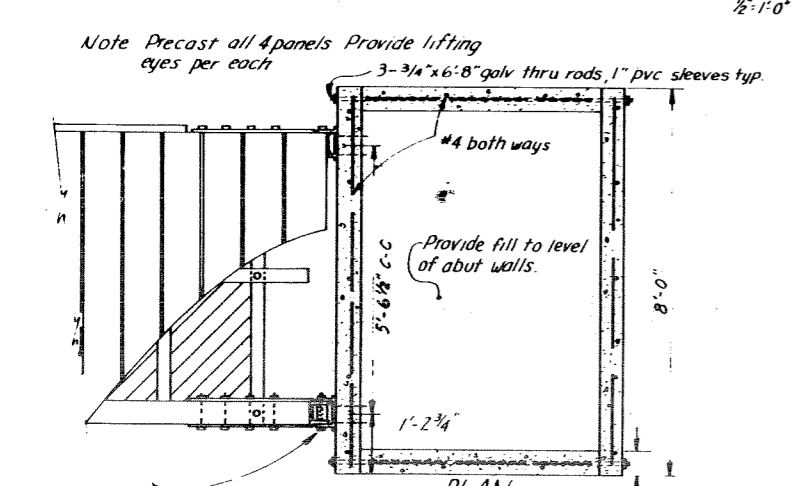
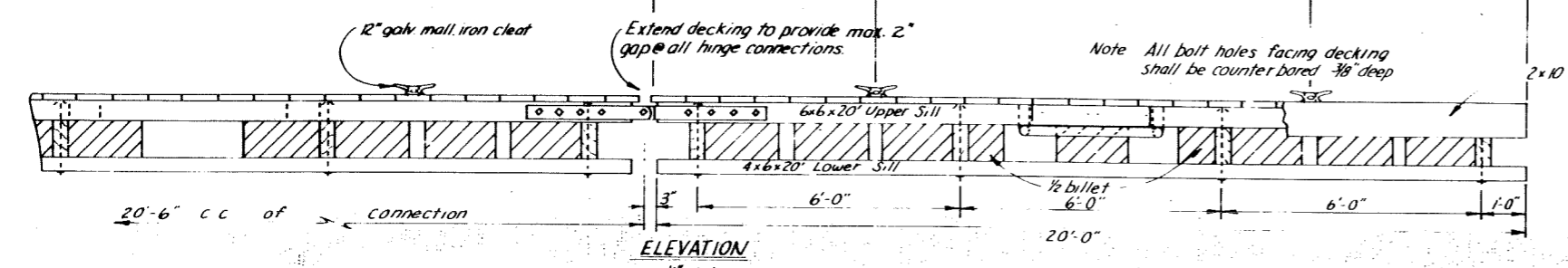
Note: All pile collars shall be secured in relation to the piling @ low tide as shown in order to permit maximum horizontal float travel during flood stage of tide.

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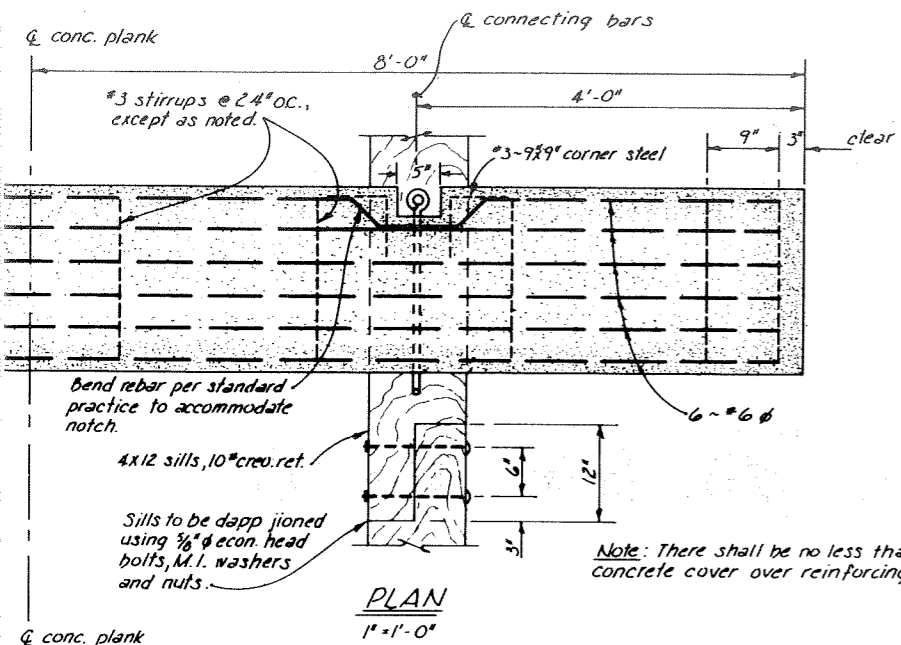
Note: All pile collars shall be secured in relation to the piling @ low tide as shown in order to permit maximum horizontal float travel during flood stage of tide.

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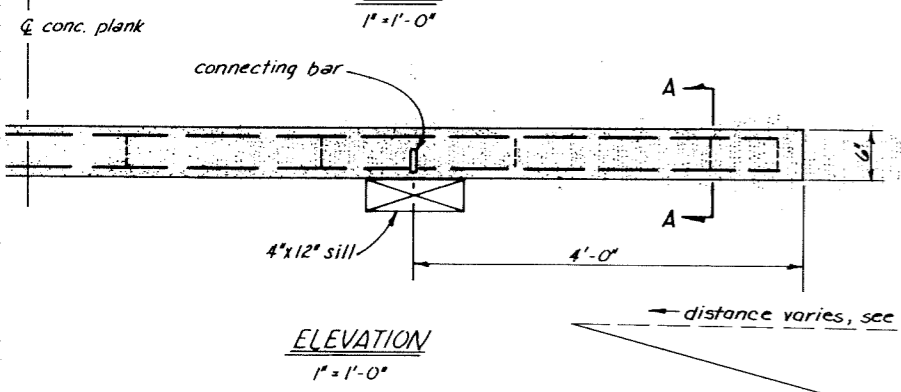


Note: substitute this hinge for the one shown.

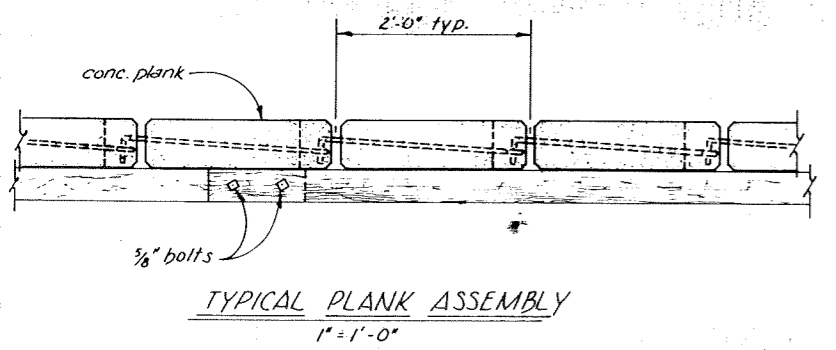
STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		6' SECTIONAL FLOAT	
DESIGNED CHECKED	DATE NOV 79	APPROVED Robert P. Beck CHIEF OF DESIGN	
PROJECT NUMBER K 93109		SHEET 16 OF 36	



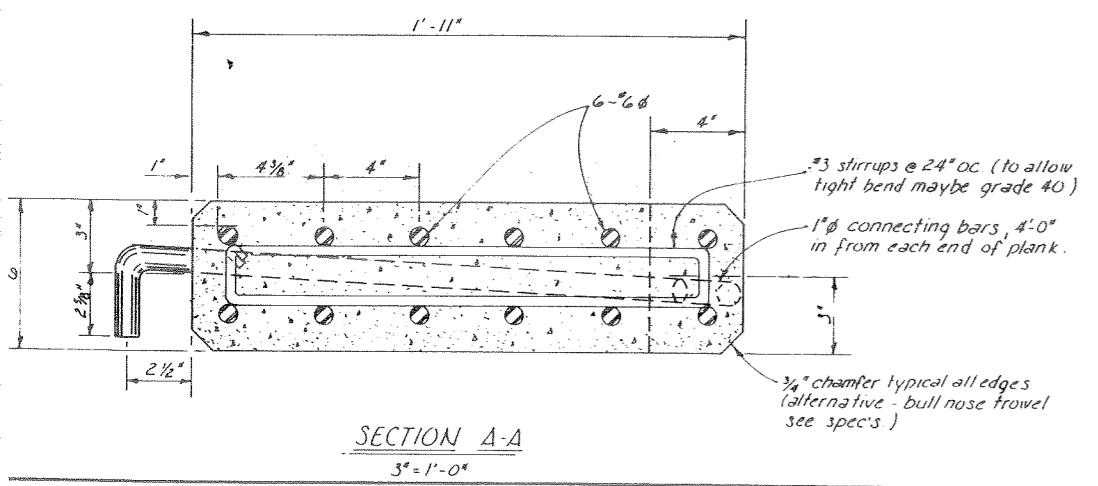
PLAN
1" = 1'-0"



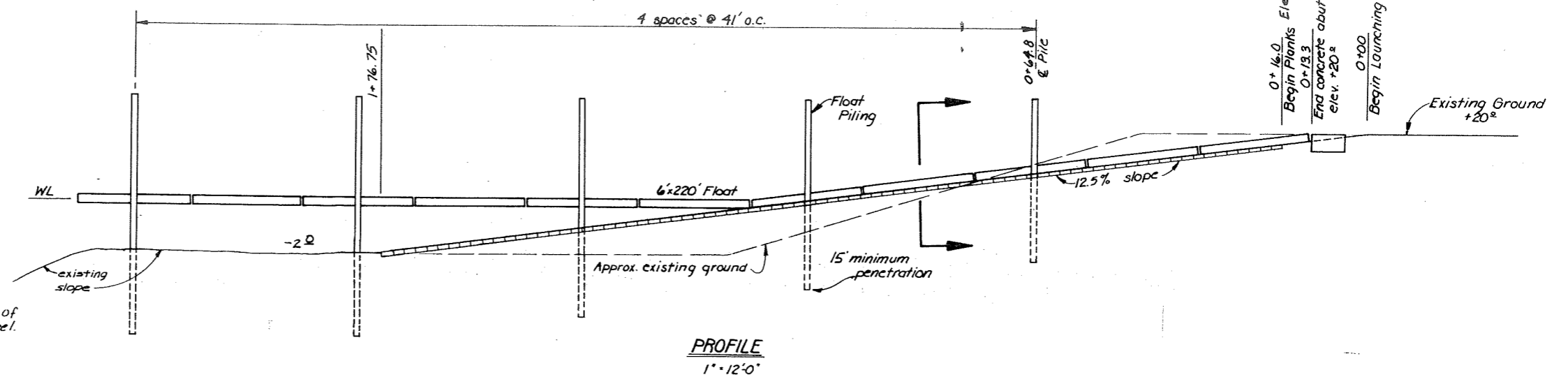
ELEVATION
1" = 1'-0"



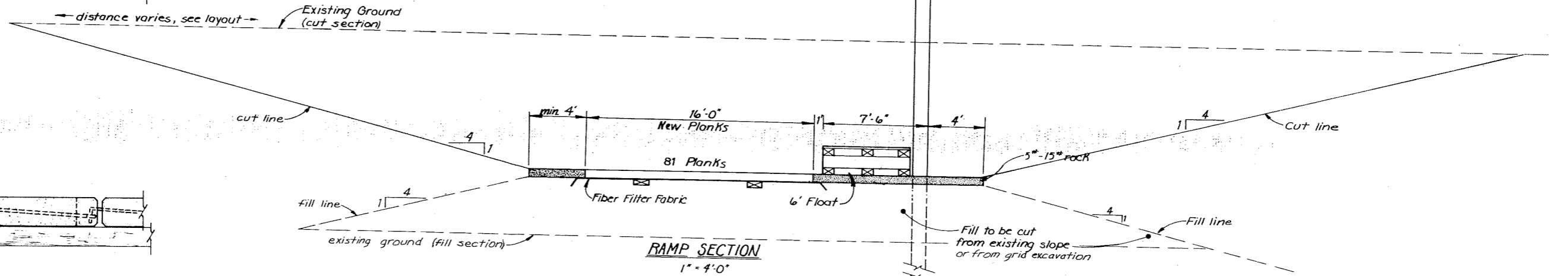
TYPICAL PLANK ASSEMBLY
1" = 1'-0"



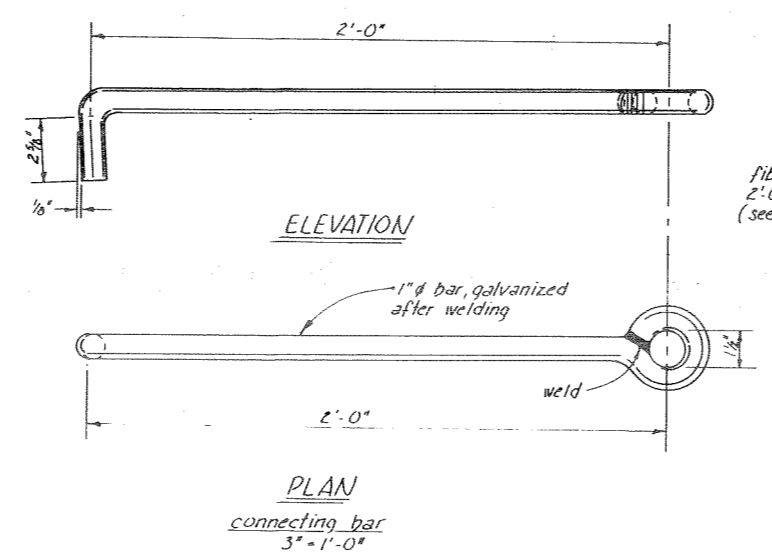
SECTION A-A
3" = 1'-0"



PROFILE
1" = 12'-0"

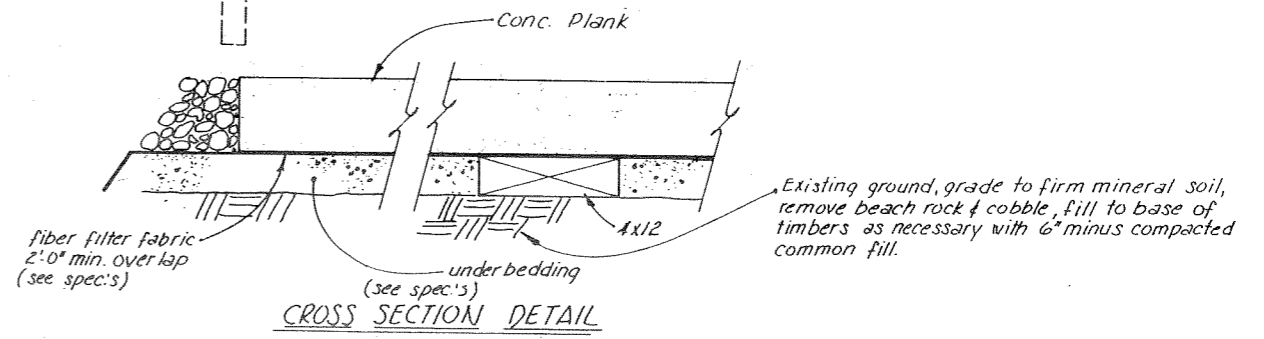


RAMP SECTION
1" = 4'-0"



ELEVATION

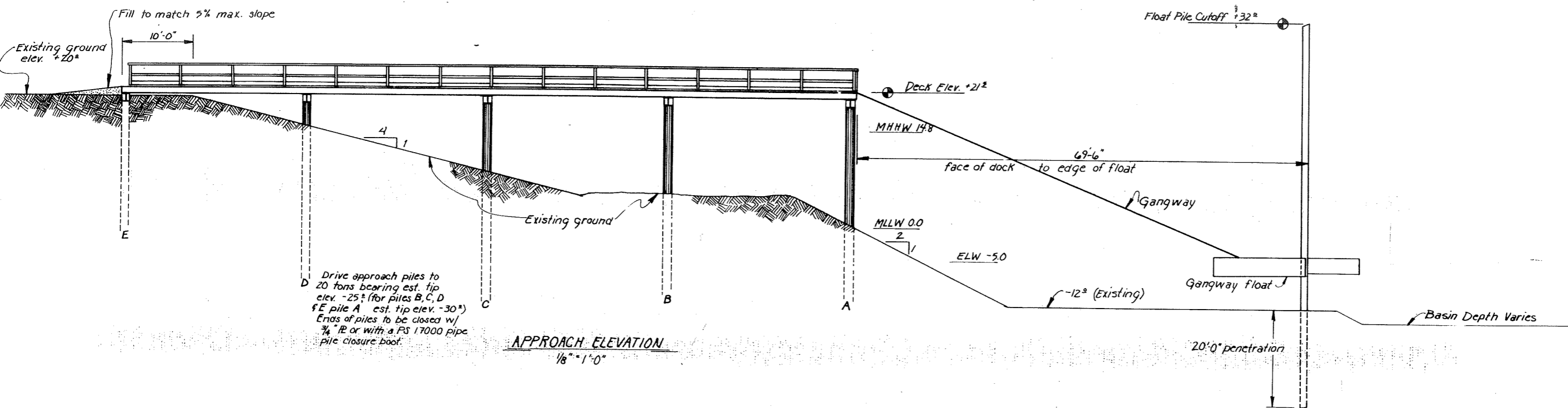
PLAN
connecting bar
3" = 1'-0"



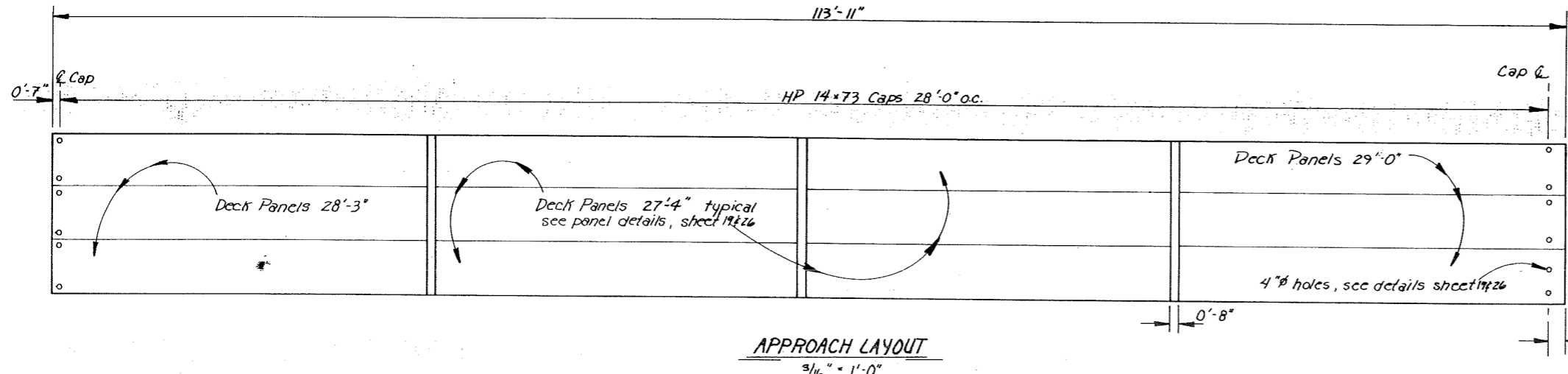
CROSS SECTION DETAIL
1 1/2" = 1'-0"

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

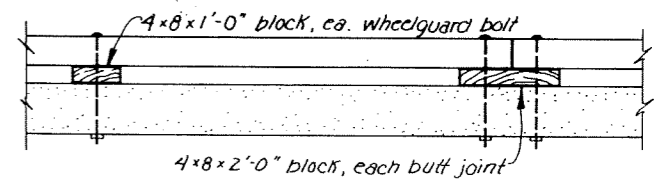
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		LAUNCH RAMP DETAILS	
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED	DRAWN GRF/CV	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE Oct. 80		
PROJECT NUMBER	K93109	SHEET	17 OF 36



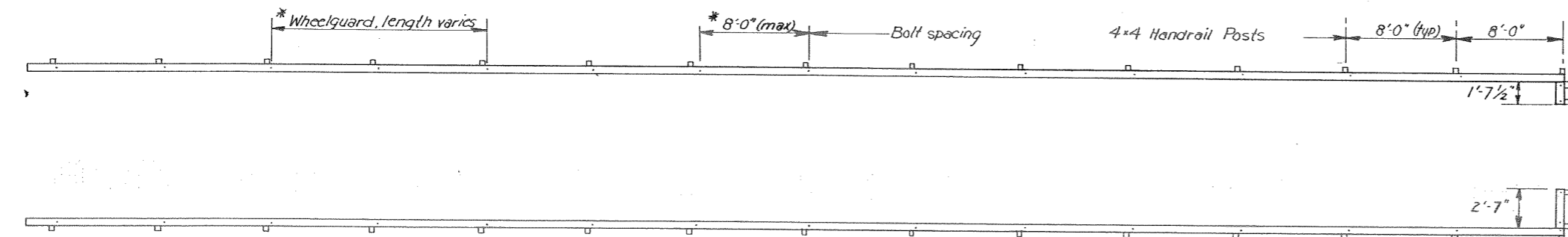
APPROACH ELEVATION
1/8" = 1'-0"



APPROACH LAYOUT
3/16" = 1'-0"



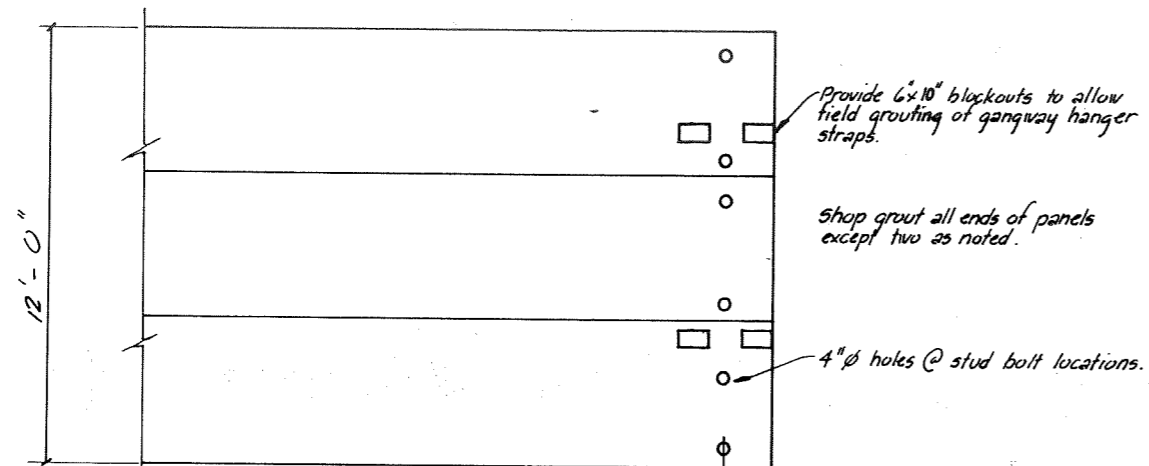
WHEELGUARD BUTT JOINT
1/2" = 1'-0"



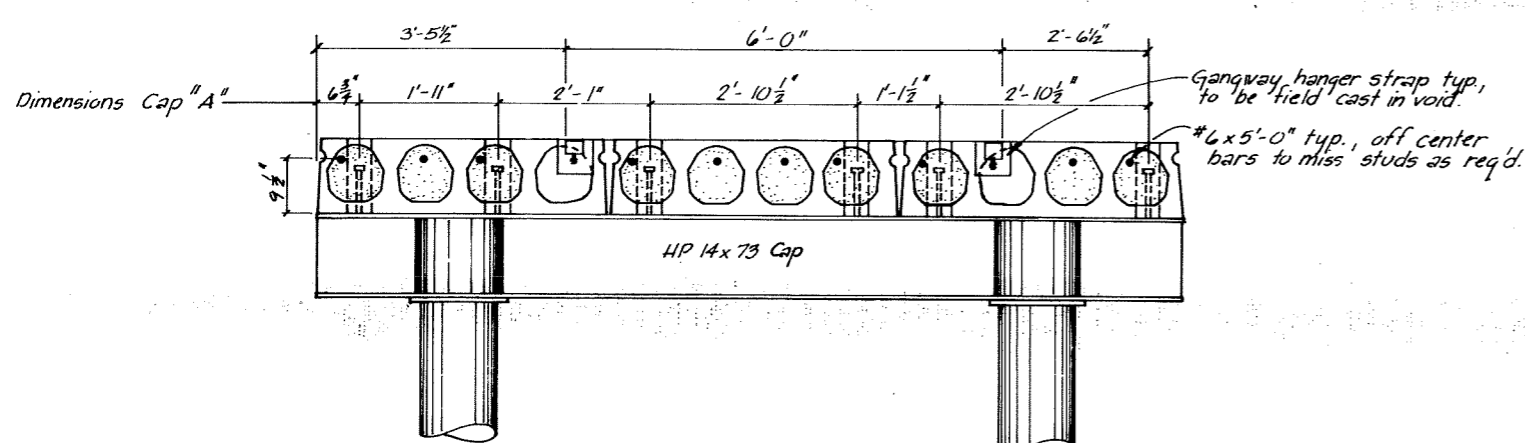
WHEELGUARD AND POST LAYOUT
3/16" = 1'-0"

* Wheelguard to be butt joined
Maximum 3/4" bolt spacing 8'-0"
Fabricators option as to
wheelguard lengths and bolt
spacing.

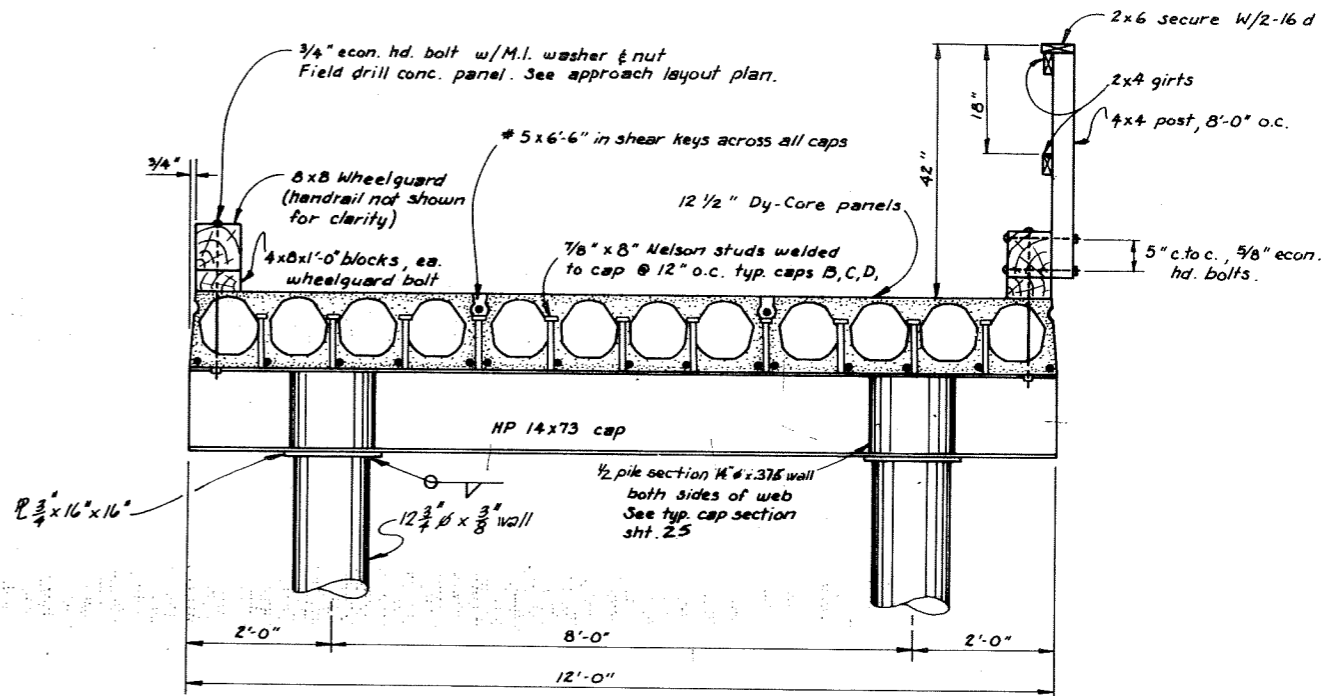
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah Alaska	
APPROACH LAYOUT			
SCALE as shown	DESIGNED JDB	CHECKED JDB	APPROVED Robert P. Beck CHIEF OF DESIGN
		DATE 2-27-81	
PROJECT NUMBER K 93109	SHEET 18 OF 36		



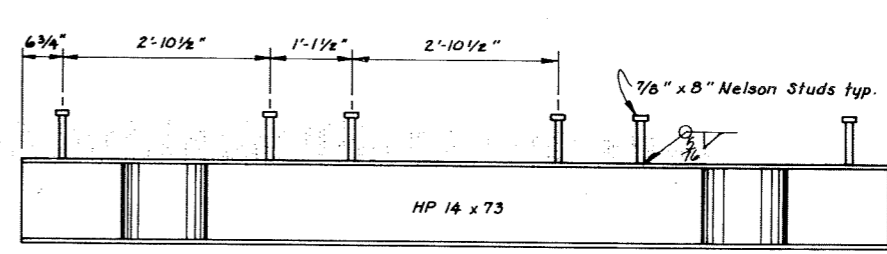
PANEL PLAN
 $\frac{3}{8} = 1'-0"$
 Cap "A"



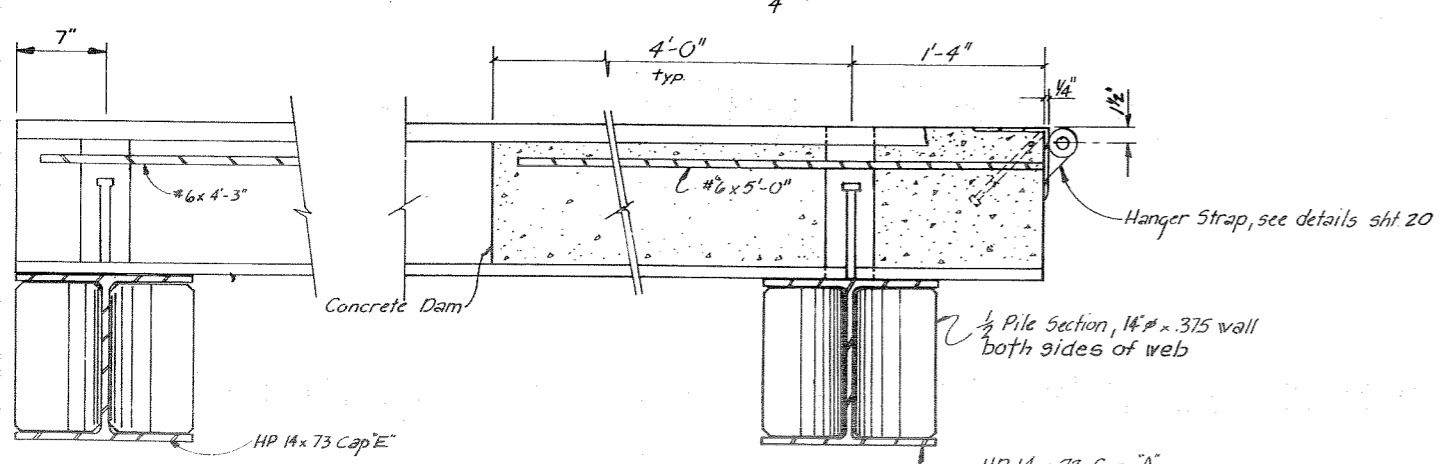
END ELEVATION
 $\frac{3}{4} = 1'-0"$



TYPICAL APPROACH SECTION
 $\frac{3}{4} = 1'-0"$



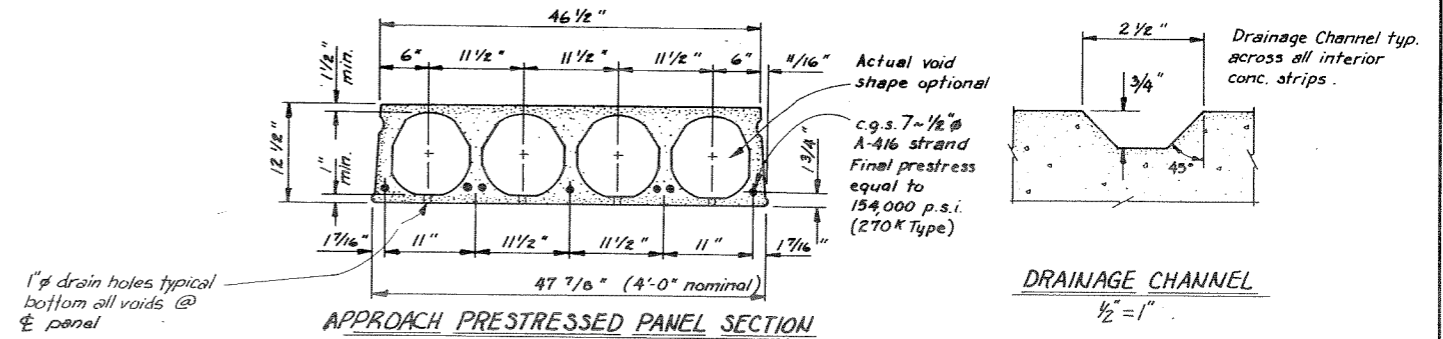
CAP E
 $\frac{3}{4} = 1'-0"$



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

Note: For panel details and assembly details see dock details sht. 26

Note: Provide continuous neoprene bearing strip at all caps. Secure to cap as recommended by supplier.

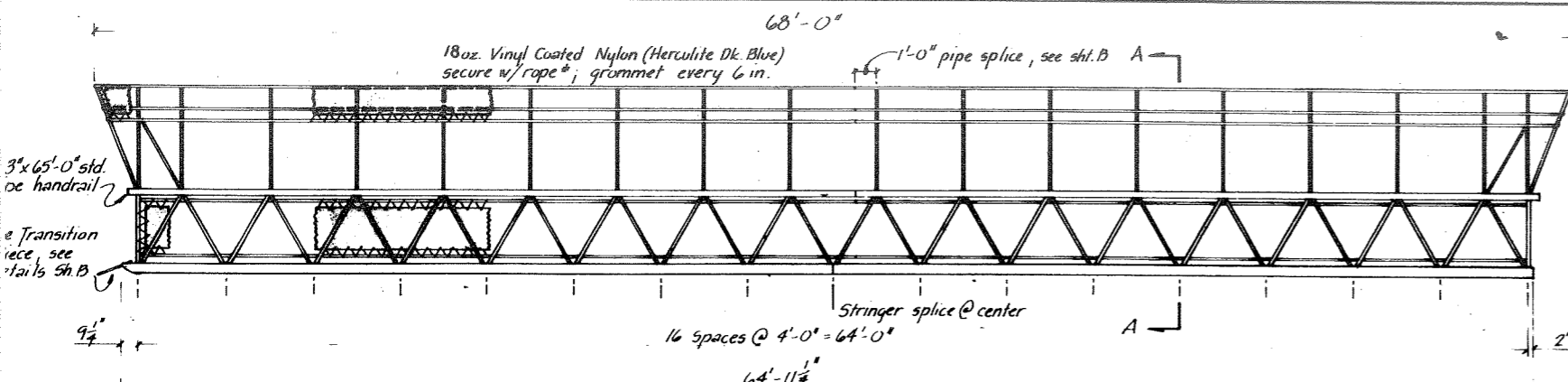


APPROACH PRESTRESSED PANEL SECTION
 $1" = 1'-0"$

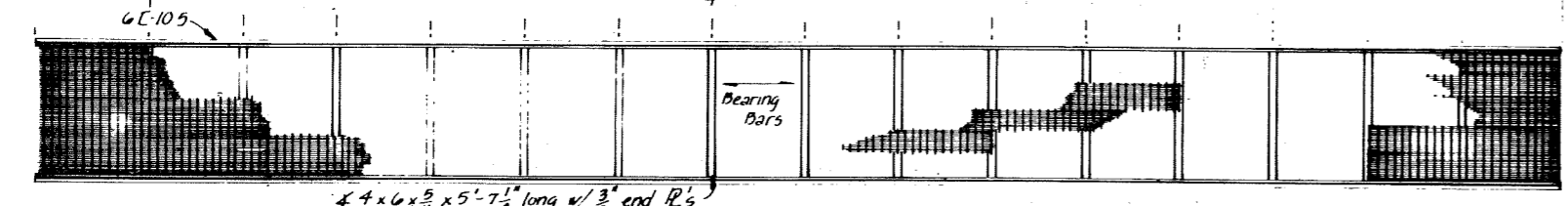
DRAINAGE CHANNEL
 $\frac{1}{2} = 1'-0"$

DESIGN LOAD
 H-15 (174 psf)
 Minimum section properties $A_c = 296 \text{ in}^2$
 Maximum panel dead wt. $W_o = 100 \text{ psf}$
 Compressive strength, $f'_c = 8000 \text{ psi}$

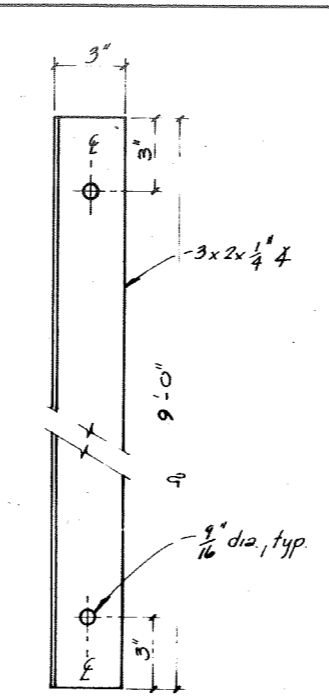
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	ALASKA
APPROACH DETAILS			
SCALE: As Noted	SURVEYED: BS/JDB	DESIGNED: BS/JDB	APPROVED: Robert P. Beck
CHECKED:	DATE: 10/80	DRAWN: T3/JM	CHIEF OF DESIGN
PROJECT NUMBER: K93109	SHEET: 19 OF 36		



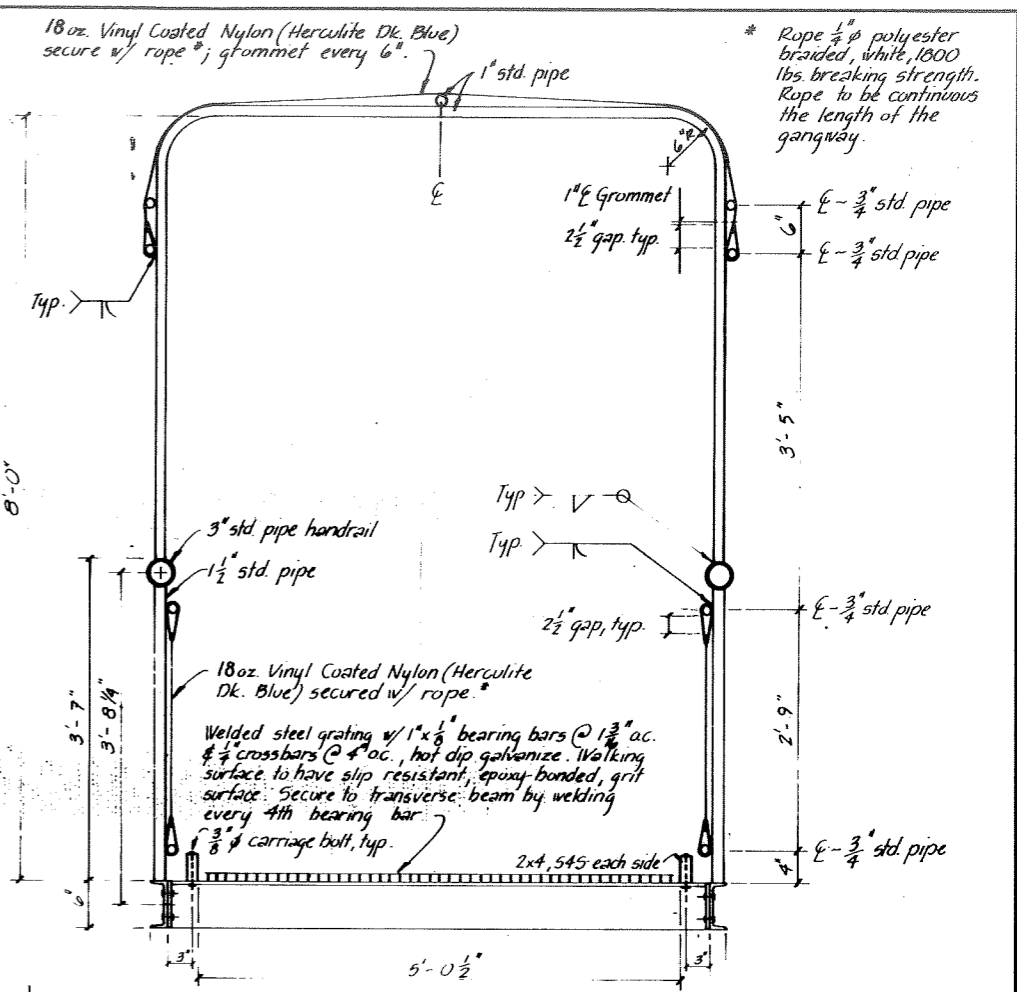
GANGWAY ELEVATION
1/4" = 1'-0"



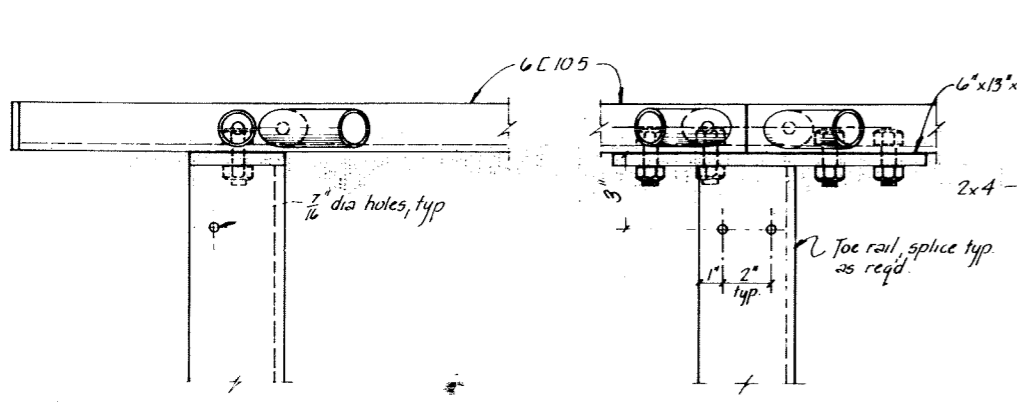
STRINGER & BEAM LAYOUT
1/4" = 1'-0"



GUIDE RAIL
3/8" = 1'-0"

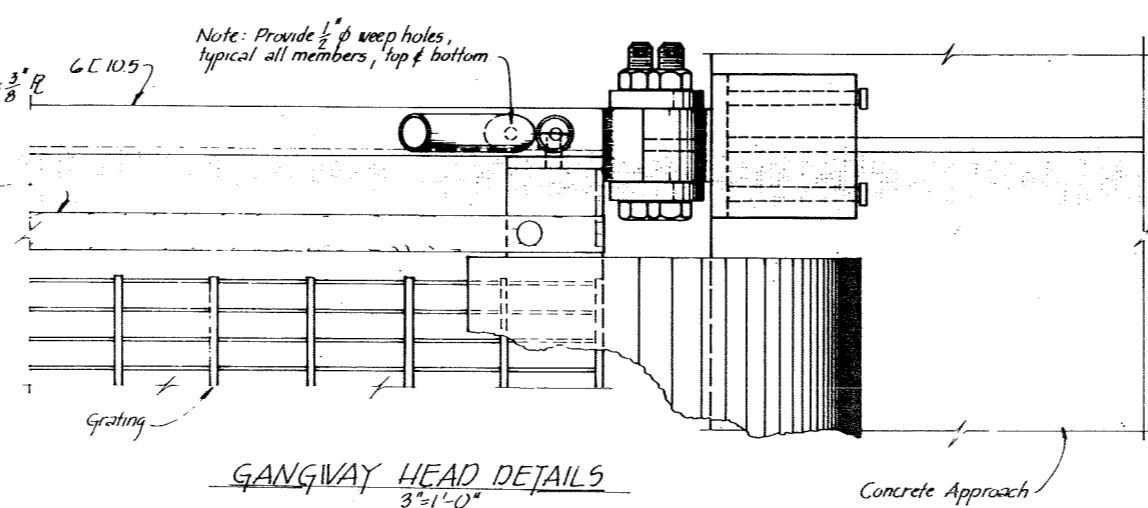


SECTION A-A
1" = 1'-0"

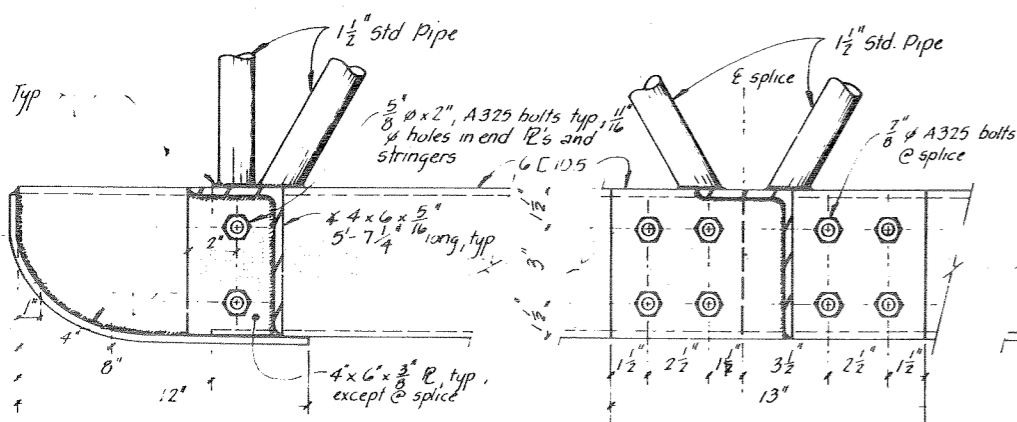


GANGWAY TOE
3/8" = 1'-0"

STRINGER SPLICE
3/8" = 1'-0"



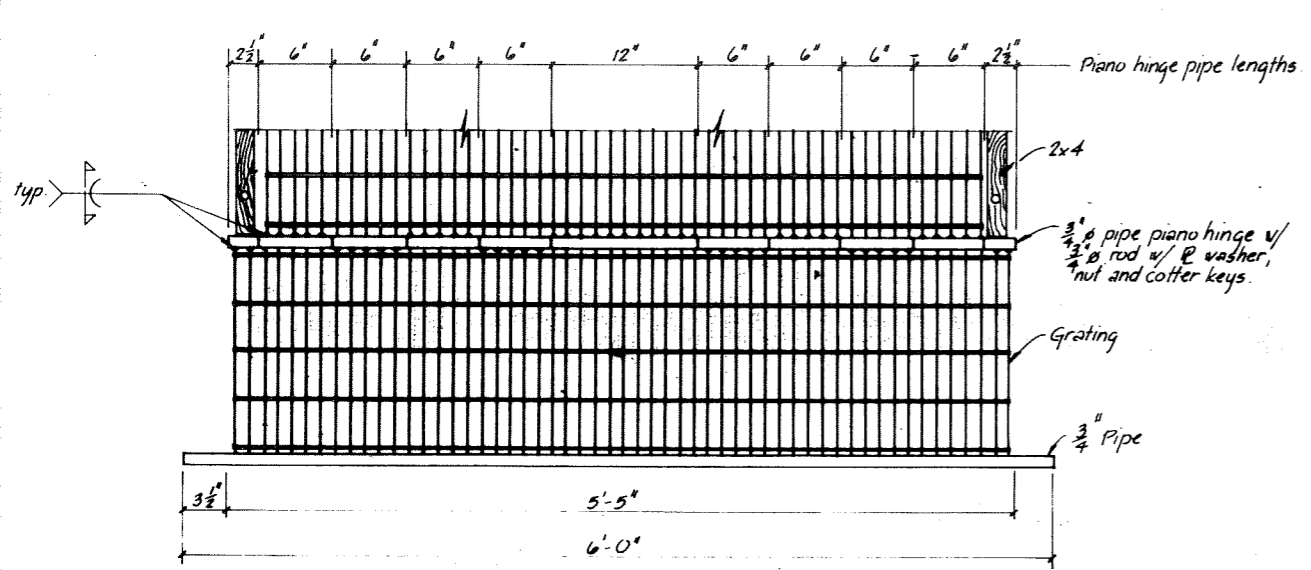
GANGWAY HEAD DETAILS
3/8" = 1'-0"



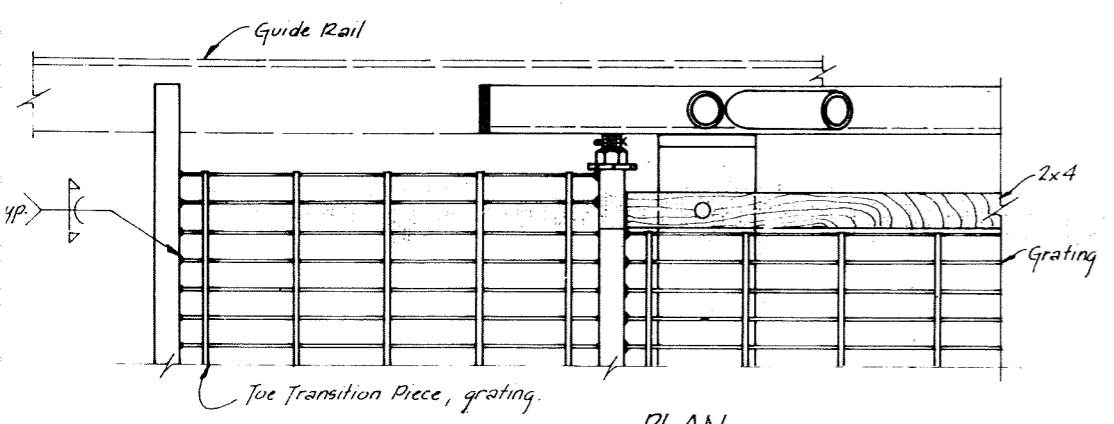
SECTIONAL ELEVATIONS
3/8" = 1'-0"

- NOTES**
1. Design live load 85 psf.
 2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500.
 3. All shapes & plates shall conform to ASTM A-36.
 4. Trusses shall be shop fabricated & assembled after galvanizing, including hangers.
 5. Shop splices shall be held to a minimum, optional field splice as shown.
 6. Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance w/ ASTM, A-23, A-384, A-385, A-386.
 7. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM, A-153.
 8. Joe rails shall be No. 1 Grade Hem-Fir penta pressure treated to 0.4 lb cu ft retention and shall be field drilled holes to match shop drilled holes in transverse members.
 9. Assembly shop drawing shall be submitted for approval. Ship assembled except cover may be shipped separately.

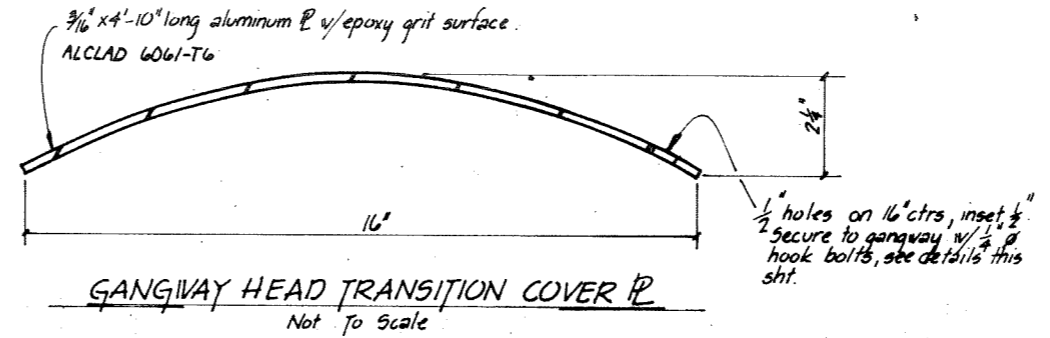
STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah Alaska 6' x 65'-0" COVERED STEEL GANGWAY SHEET A	
DESIGNED HRM	CHECKED HRM	SURVEYED JTM/CV DATE 11-80	APPROVED Robert P Beck CHIEF OF DESIGN
PROJECT NUMBER K 93109		SHEET 20 OF 36	



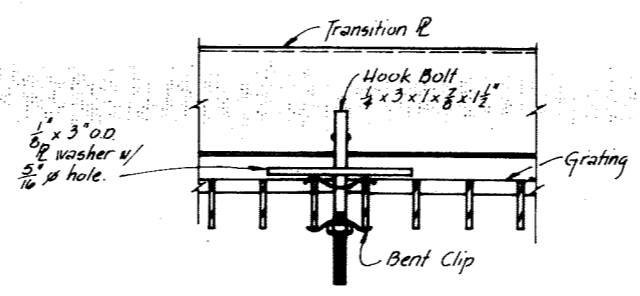
TOE TRANSITION PIECE PLAN
1 1/2" = 1'-0"



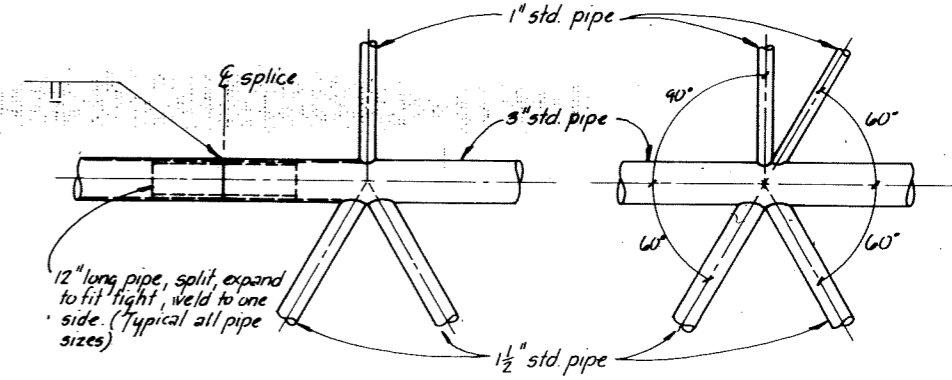
SECTIONAL ELEVATION
3'-1'-0"



GANGWAY HEAD TRANSITION COVER
Not To Scale

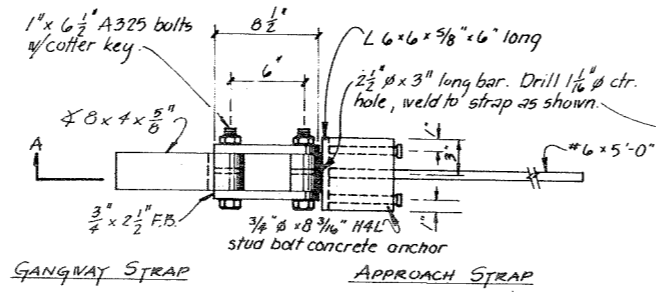


TRANSITION PIPE CONNECTION
1/2" = 1"

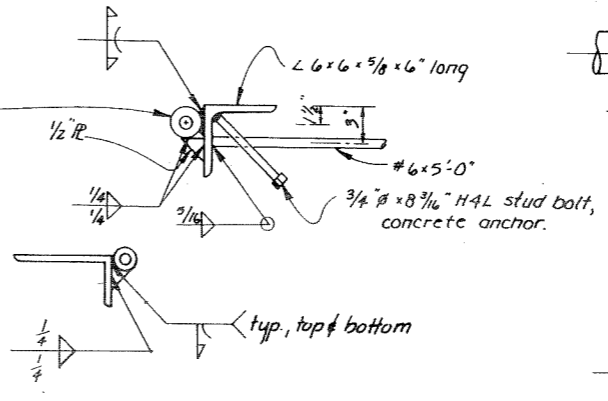


PIPE SPLICE DETAIL

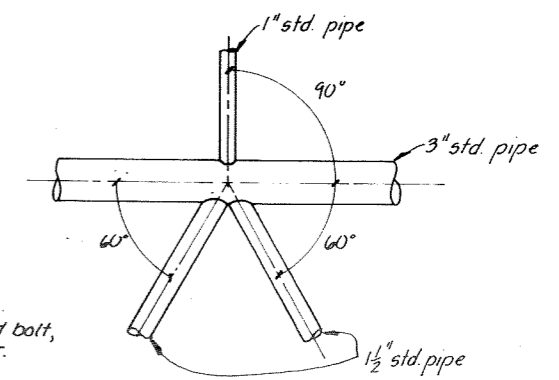
BRACE DETAIL



HANGER STRAP DETAIL
1 1/2" = 1'-0"

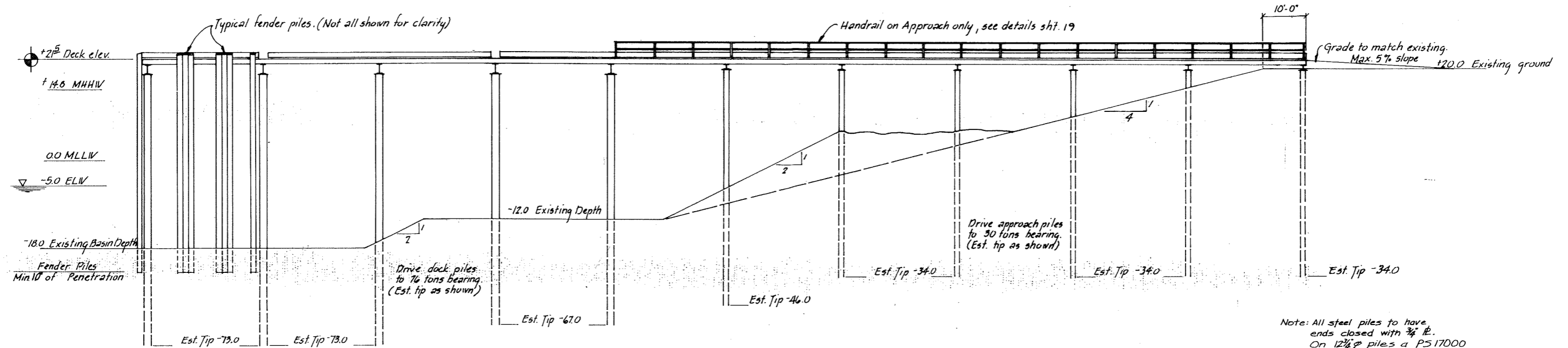


SECTION A-A
1 1/2" = 1'-0"



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

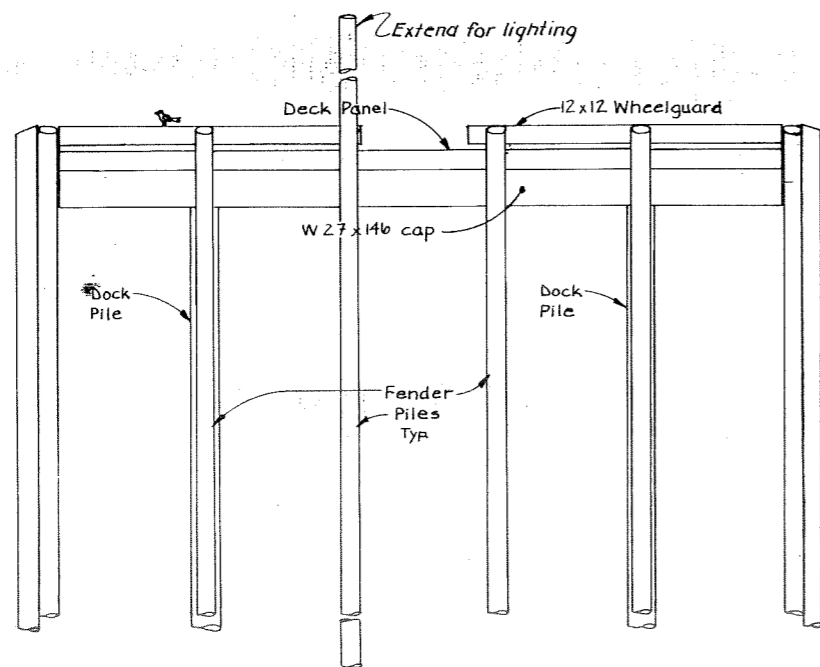
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
6' x 65'-0" COVERED STEEL GANGWAY SHEET B			
SCALE As Shown	DESIGNED HRM/DOB	SURVEYED DRAWN JTM DATE 11 80	APPROVED Robert P. Beck CHIEF OF DESIGN
CHECKED	PROJECT NUMBER K 31429	SHEET 21 OF 36	



Note: drive two fender piles which will be used for lighting to 20' penetration.

Note: All steel piles to have ends closed with 3/4" fl. On 12 3/4" piles a P517000 pipe pile closure boot may be used.

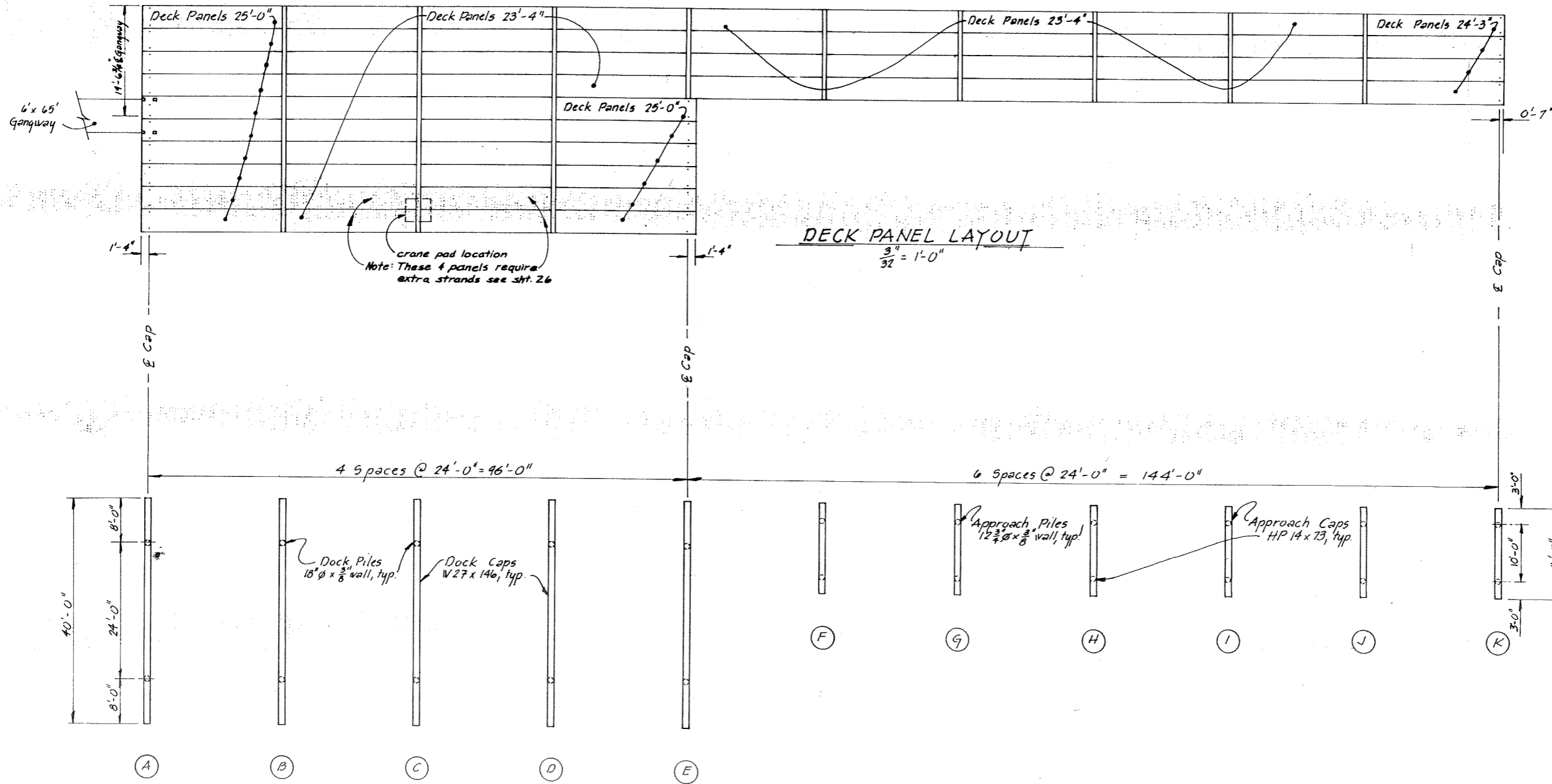
DOCK ELEVATION
3/32" = 1'-0"



DOCK ELEVATION
3/16" = 1'-0"

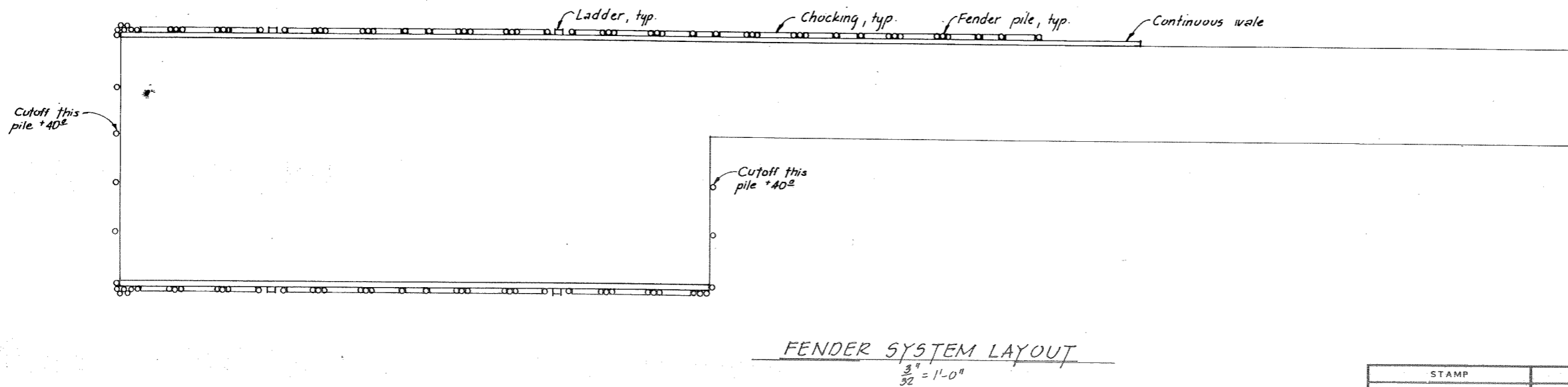
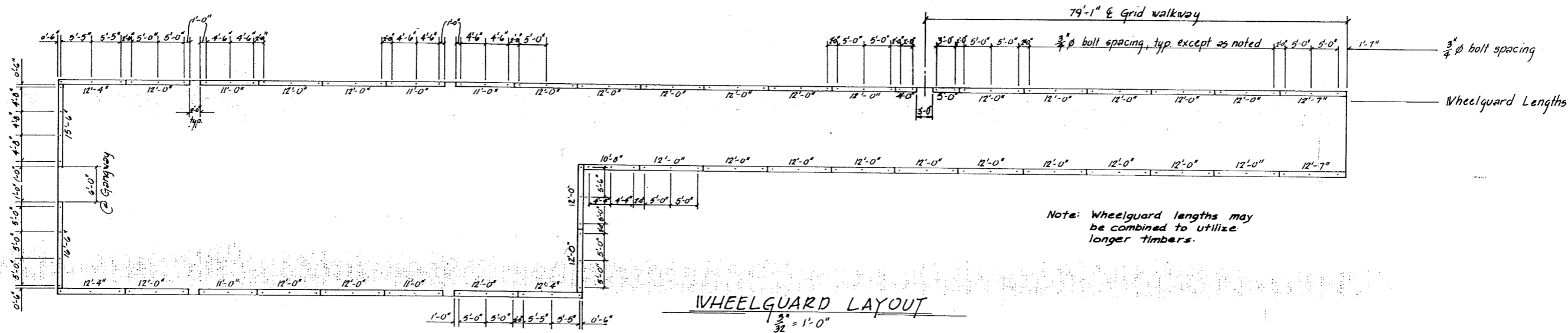
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Hoonah		Alaska	
DOCK ELEVATIONS			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN JTM/CV	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE 12-30-80		
PROJECT NUMBER K93109		SHEET 22 OF 36	





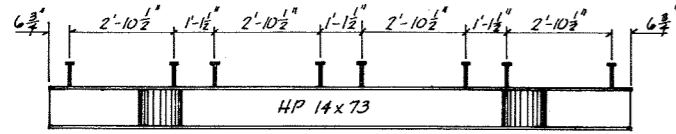
PILE & CAP LAYOUT
 $\frac{3}{32}'' = 1'-0''$

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
		DOCK LAYOUT	
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN JTM	Robert P. Beck	
CHECKED	DATE 12-30-80	CHIEF OF DESIGN	
PROJECT NUMBER K 93109	SHEET 23	OF 36	



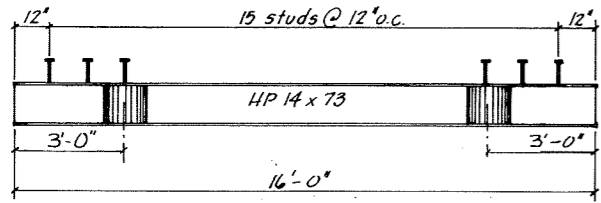
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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION			
Hoonah		Alaska	
DOCK DETAILS			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN JTM	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE 12-26-80		
PROJECT NUMBER K93109		SHEET 24 OF 36	





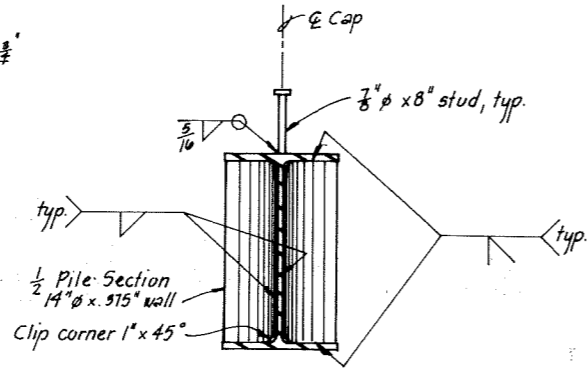
CAP K

3/8" = 1'-0"



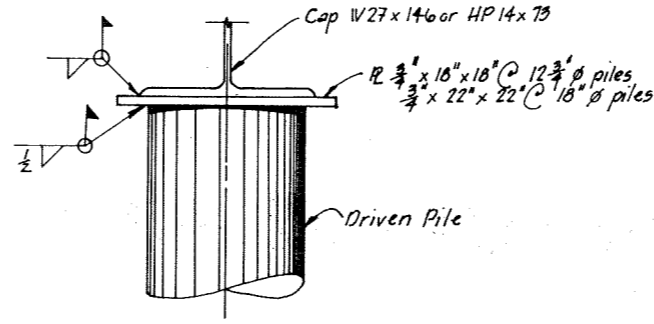
CAPS FG, H, I, J

3/8" = 1'-0"



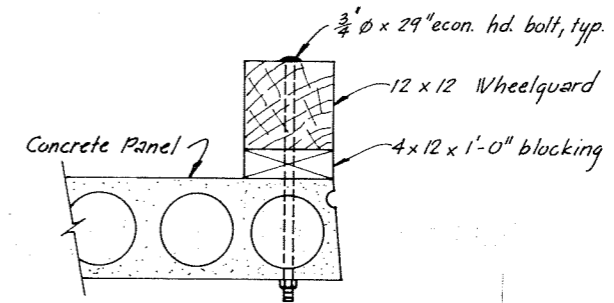
TYPICAL CAP SECTION

1" = 1'-0"



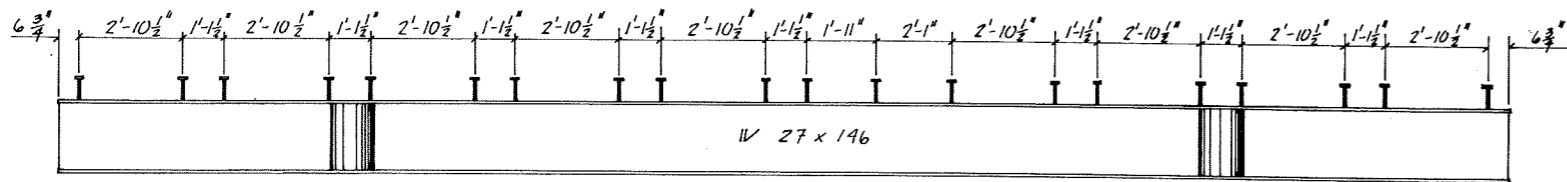
PILE TO CAP CONNECTION

1/2" = 1'-0"



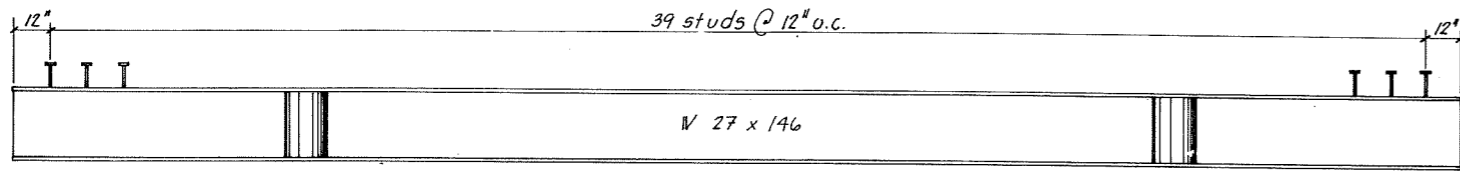
WHEELGUARD CONNECTION

1" = 1'-0"



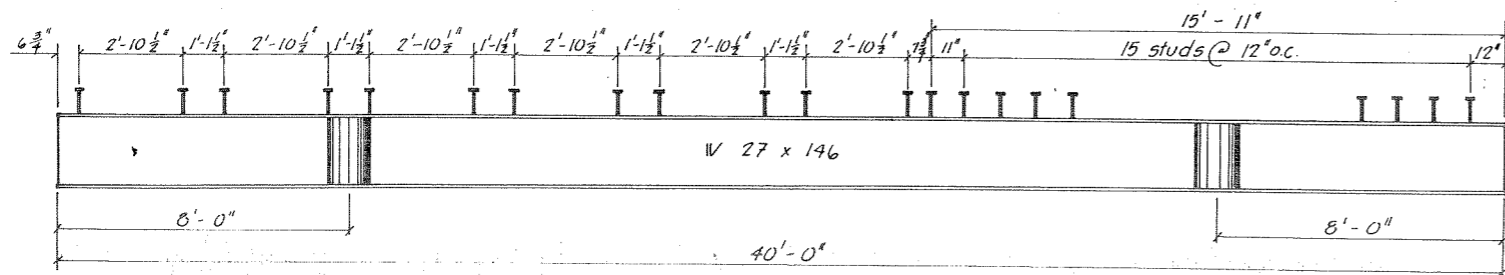
CAP A

3/8" = 1'-0"



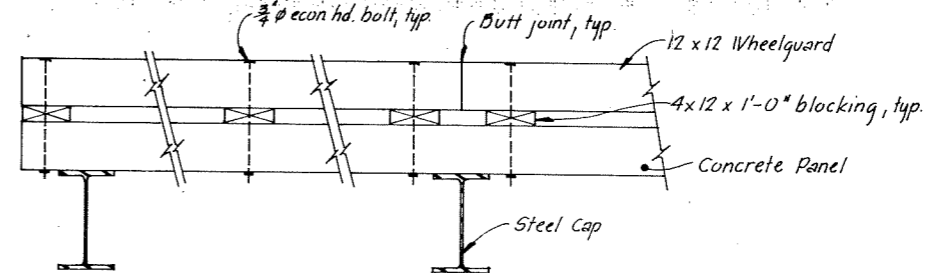
CAPS B, C, D

3/8" = 1'-0"



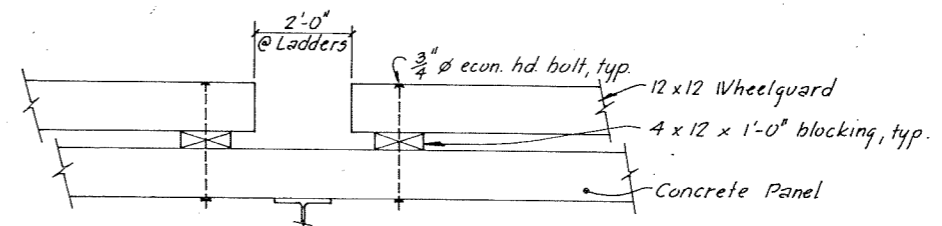
CAP E

3/8" = 1'-0"

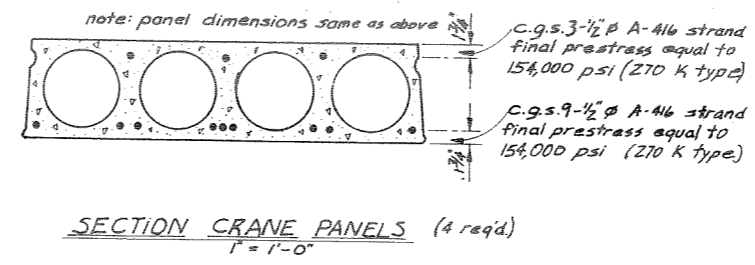
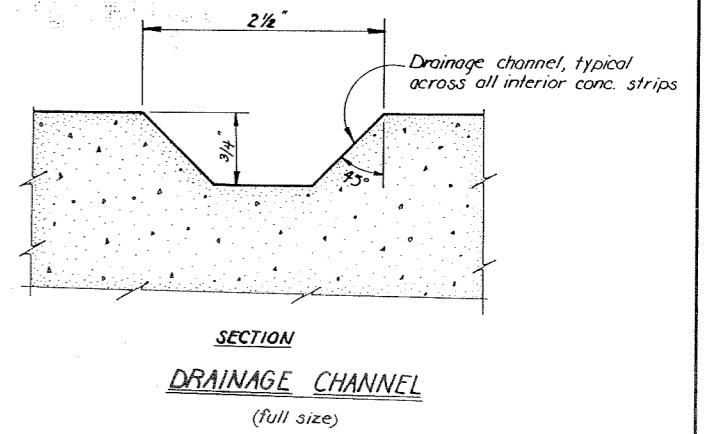
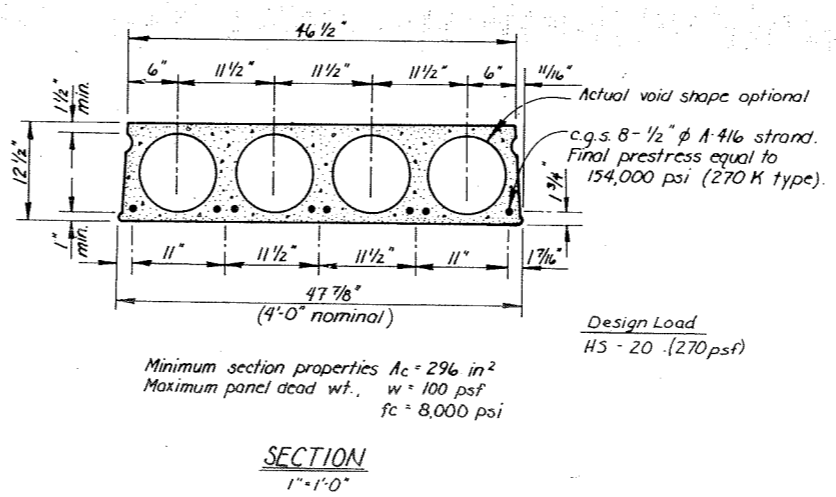
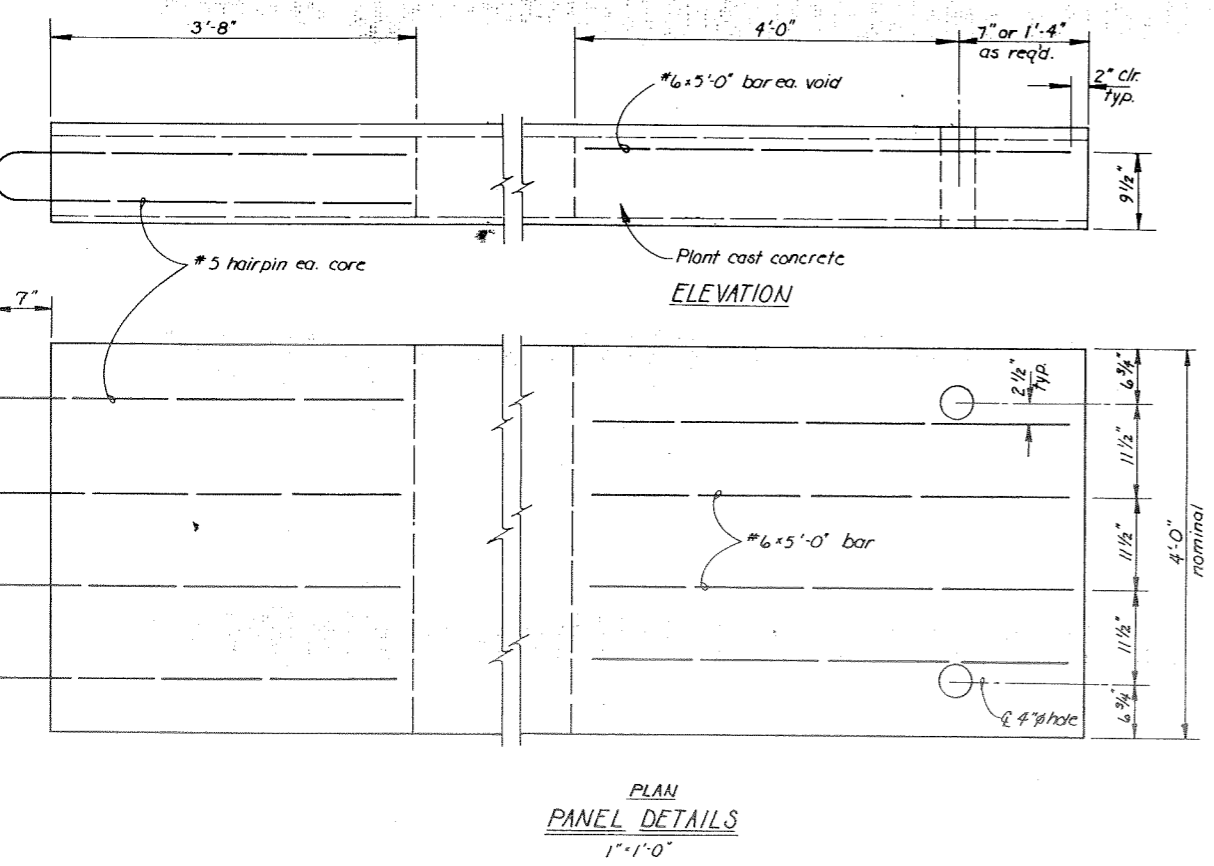
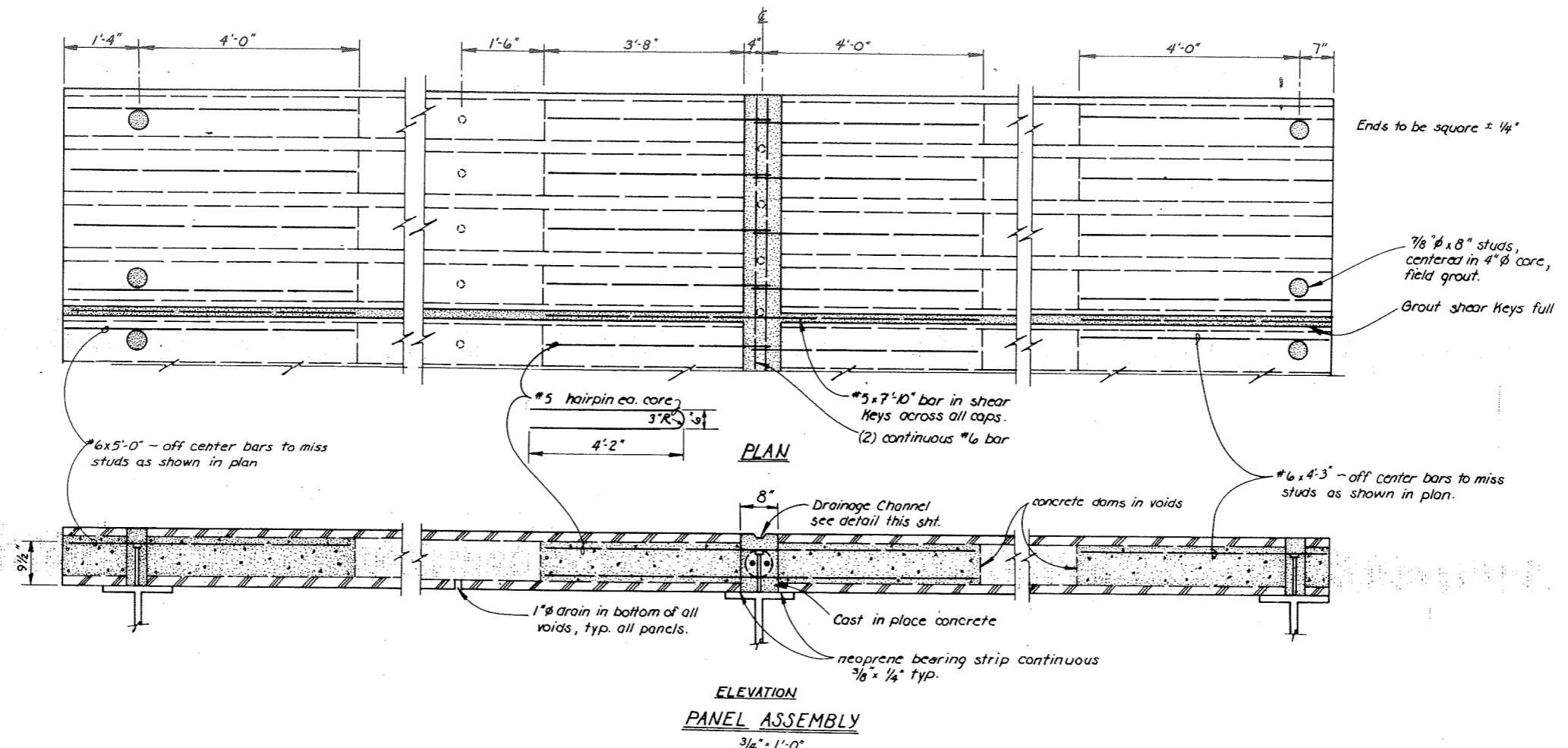


WHEELGUARD DETAILS

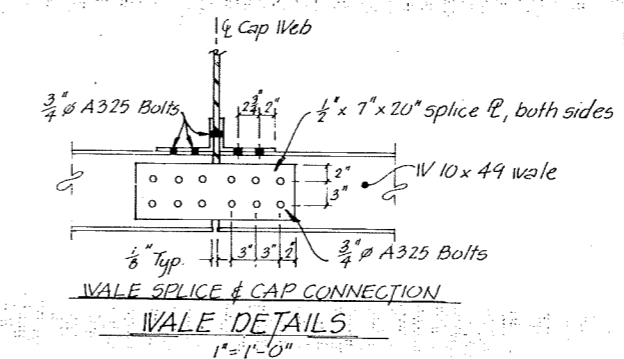
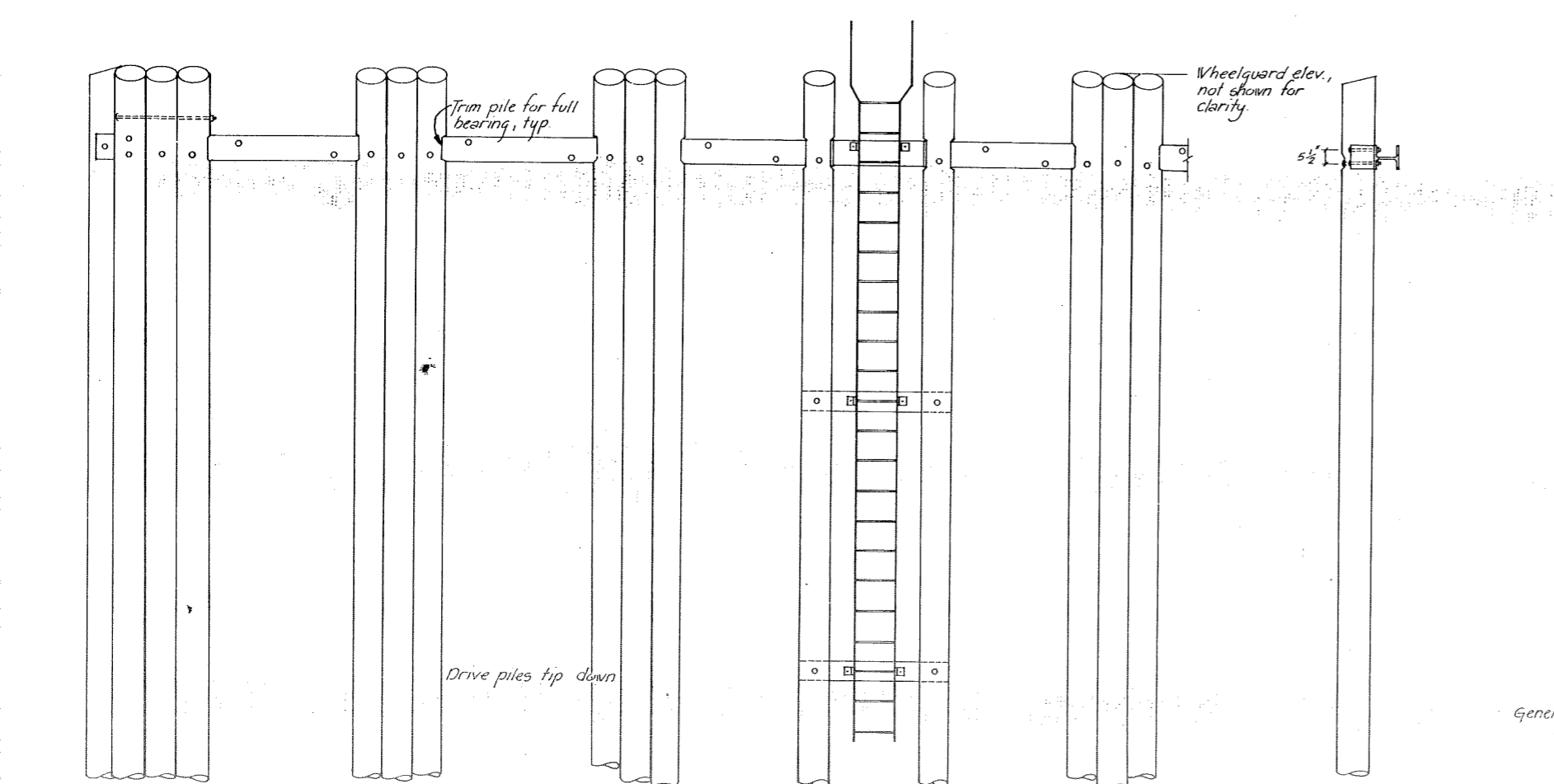
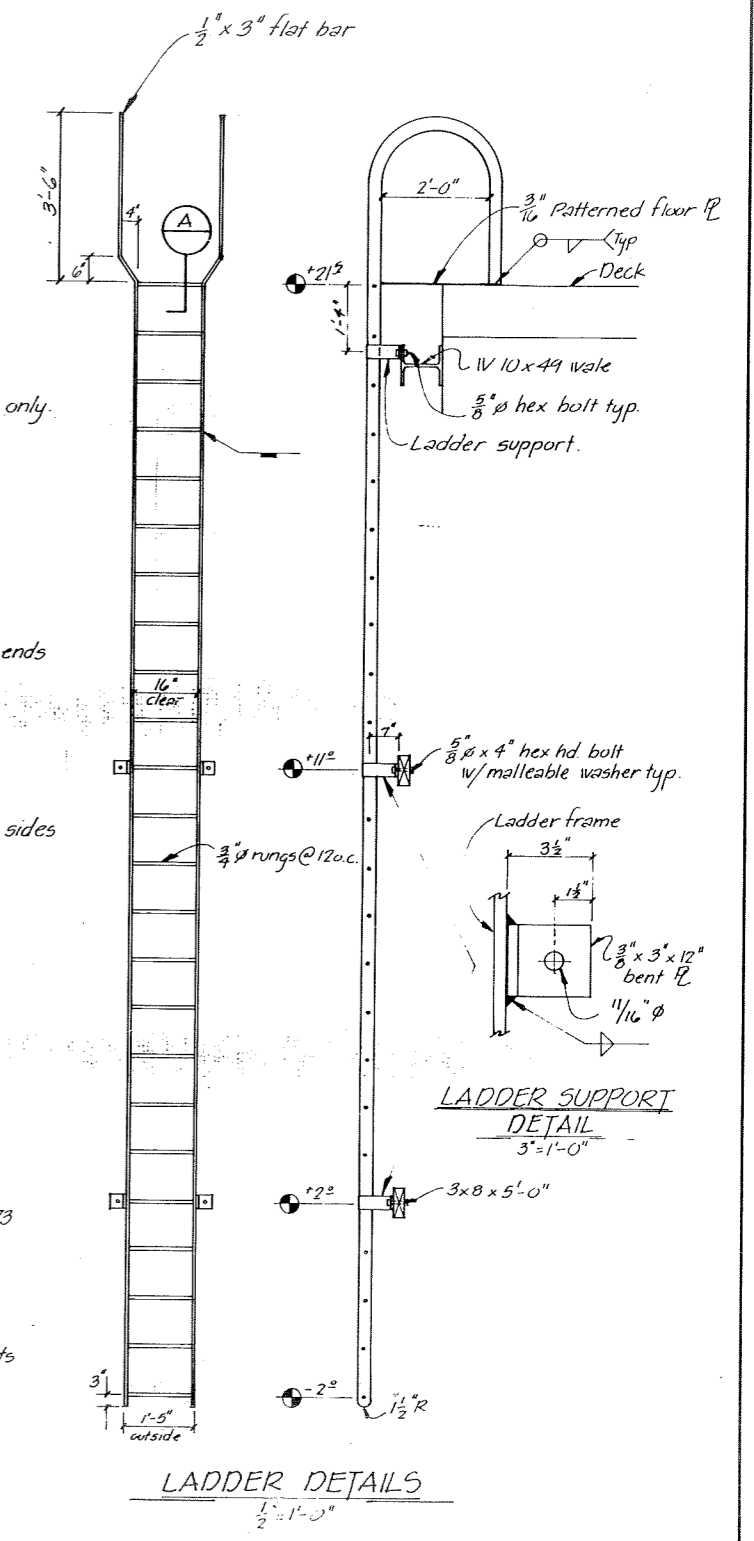
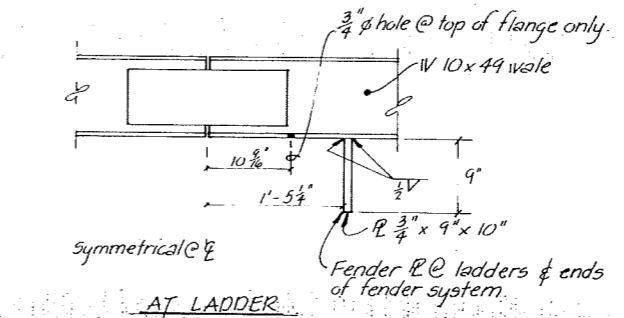
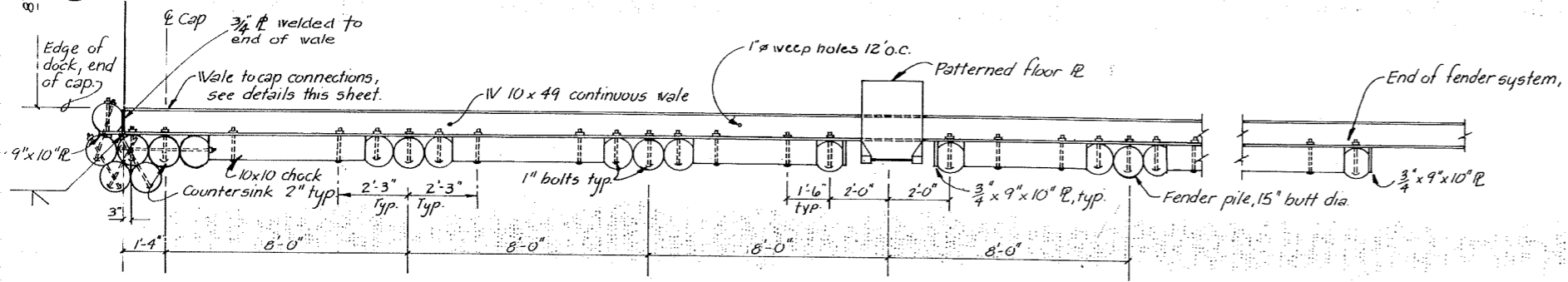
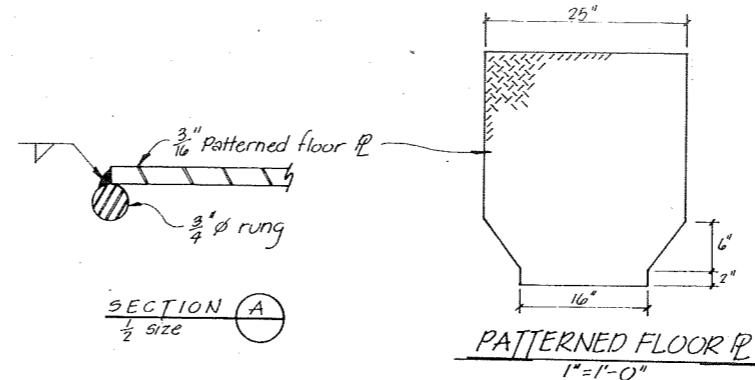
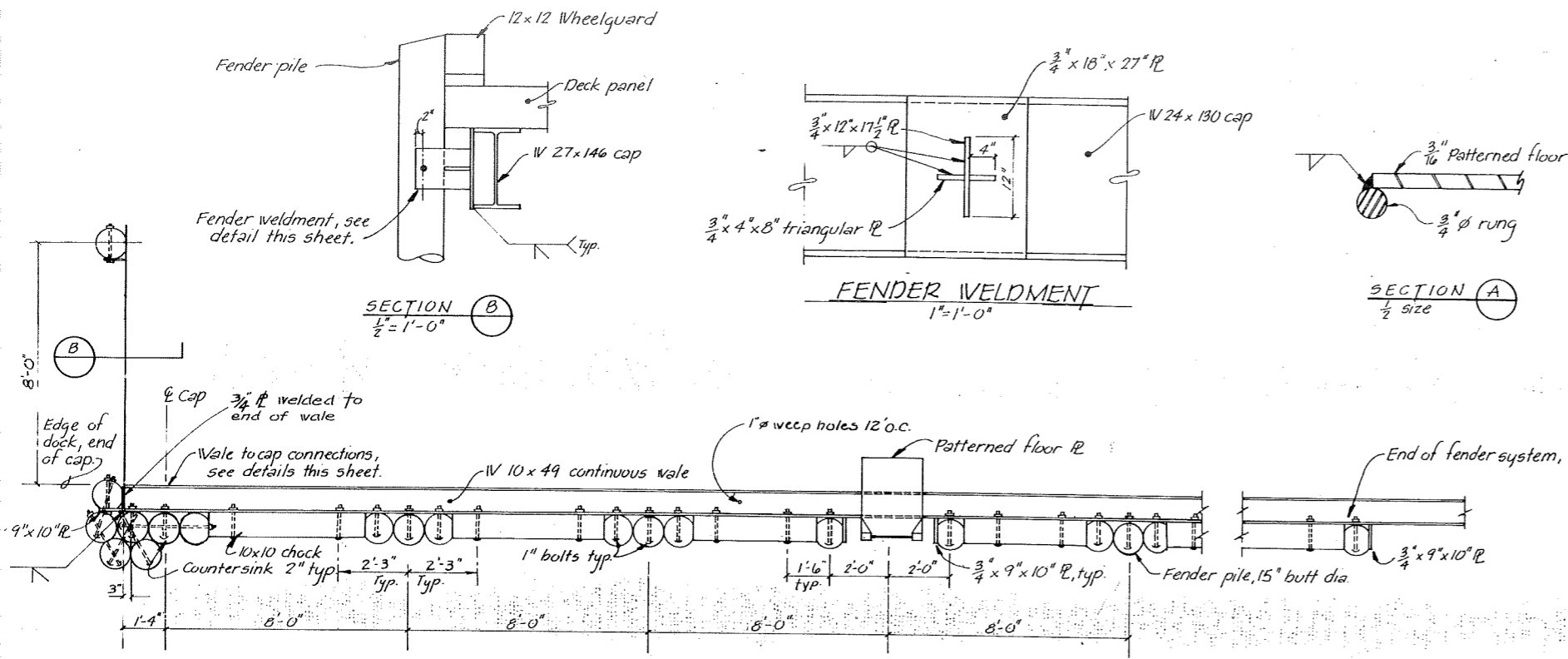
1/2" = 1'-0"



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Moonah Alaska	
<p>SCALE As Noted</p> <p>DESIGNED JDB</p> <p>CHECKED</p>		<p>SURVEYED</p> <p>DRAWN JTM</p> <p>DATE 12-30-80</p>	<p>APPROVED</p> <p>Robert P. Beck</p> <p>CHIEF OF DESIGN</p>
PROJECT NUMBER K93109		SHEET 25 OF 36	

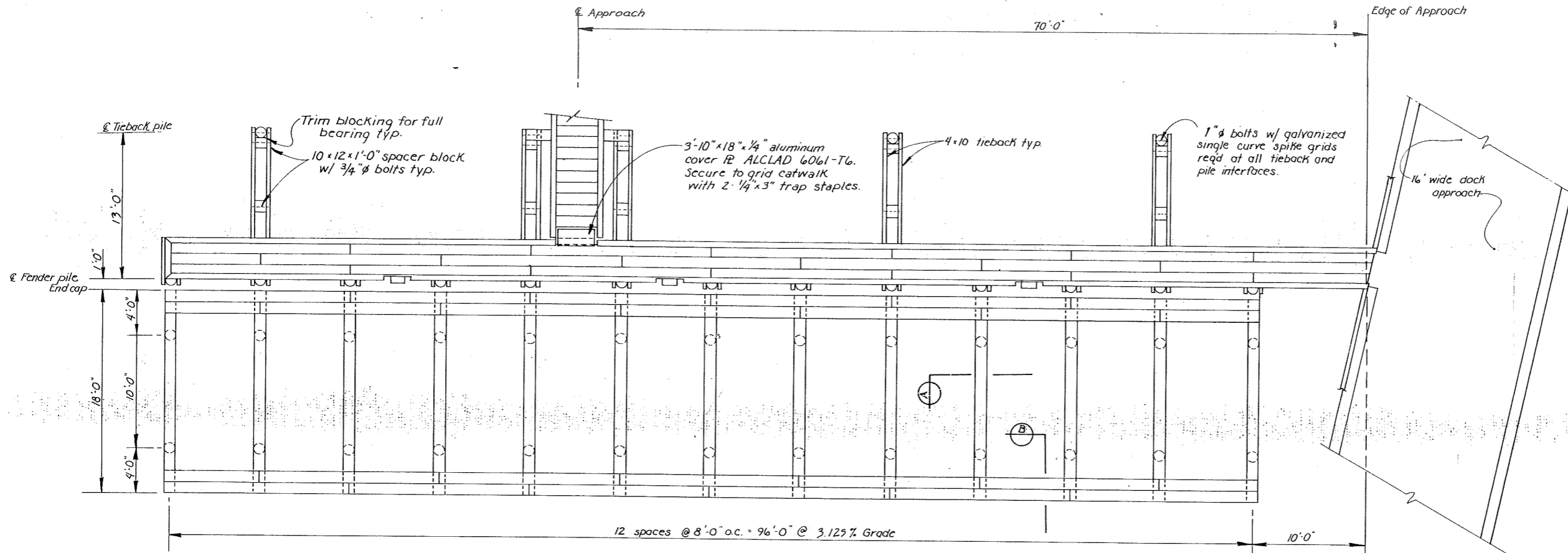


		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
Hoonah Alaska		DOCK PANEL DETAIL	
SCALE AS SHOWN DESIGNED CHECKED	SURVEYED DRAWN CV DATE 10-20-80	APPROVED Robert P. Beck CHIEF OF DESIGN	
PROJECT NUMBER K93109		SHEET 26 OF 36	



General Notes
1) Wale lengths required:
W 10 x 49 ~ 7 x 23'-11 1/2" long
4 x 25'-4 1/2" long

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hoonah	Alaska
DOCK FENDER SYSTEM			
SCALE As Shown	SURVEYED ~	APPROVED	
DESIGNED JDB	DRAWN JTM/CV	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE 11/80		
PROJECT NUMBER	K93109	SHEET 27 OF 36	

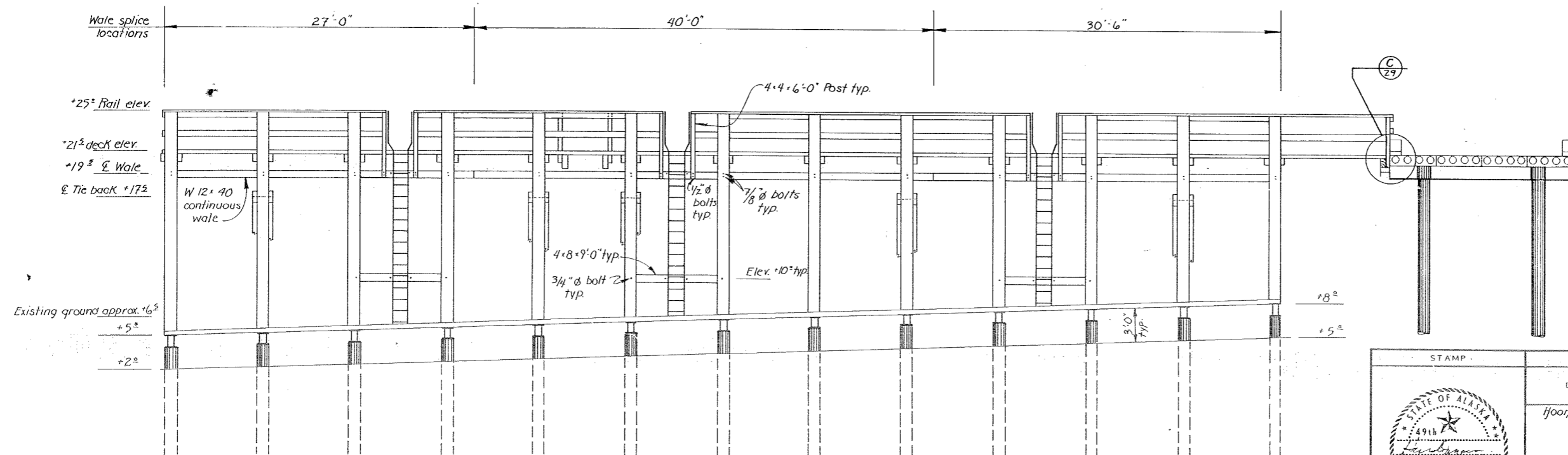


GRADED GRID PLAN

3/16" = 1'-0"

NOTES

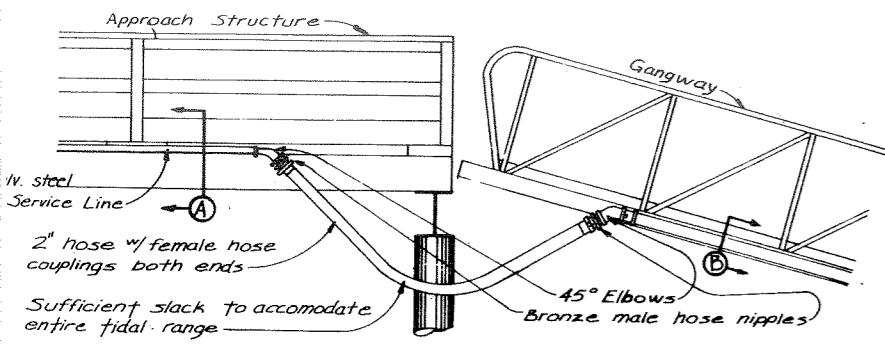
1. All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut & timber surfaces.
2. All bolts to be of the economy head type. Bolt holes to be drilled 1/8" oversize. Drift pin holes 1/8" undersize.
3. 4" Decking to be secured w/ 2-60d nails each cap.
4. Handrails & girts to be secured to posts & piles w/ 2-20d nails and to each other with 16d nails @ 32" o.c.
5. All field cuts and holes in creosote material shall be treated with hot creosote oil before final assembly.
6. Penta treated material shall be treated w/ penta solution where field cut or drilled.
7. All material to be S45 except S15 2E grid and catwalk decking.
8. All material to be creosote treated except for catwalk and approach hand rail posts, handrail, girts, decking & glulams, which shall be penta treated.



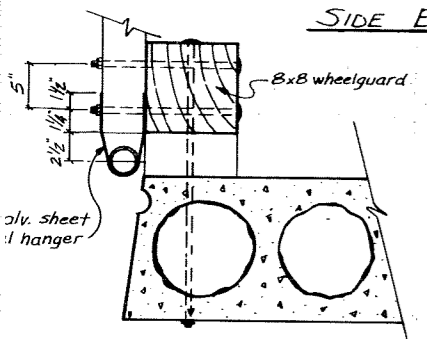
GRADED GRID ELEVATION

3/16" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Hooper	Nashja
		GRID LAYOUT	
		SCALE AS SHOWN DESIGNED JOB CHECKED	SURVEYED DRAWN C.Y. DATE Jan. 1981
PROJECT NUMBER K93109		SHEET 28 OF 36	



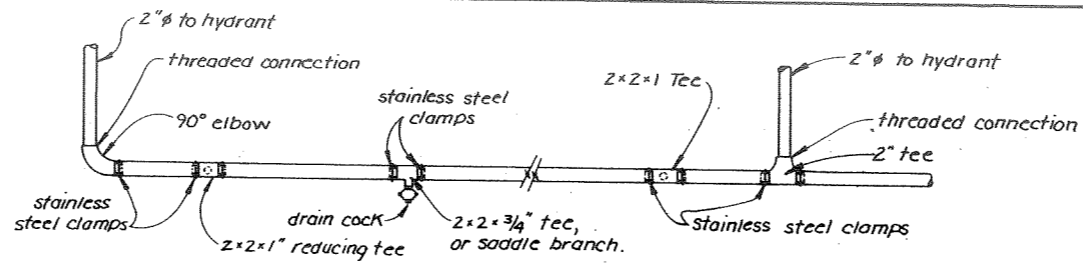
SIDE ELEVATION



SECTION A

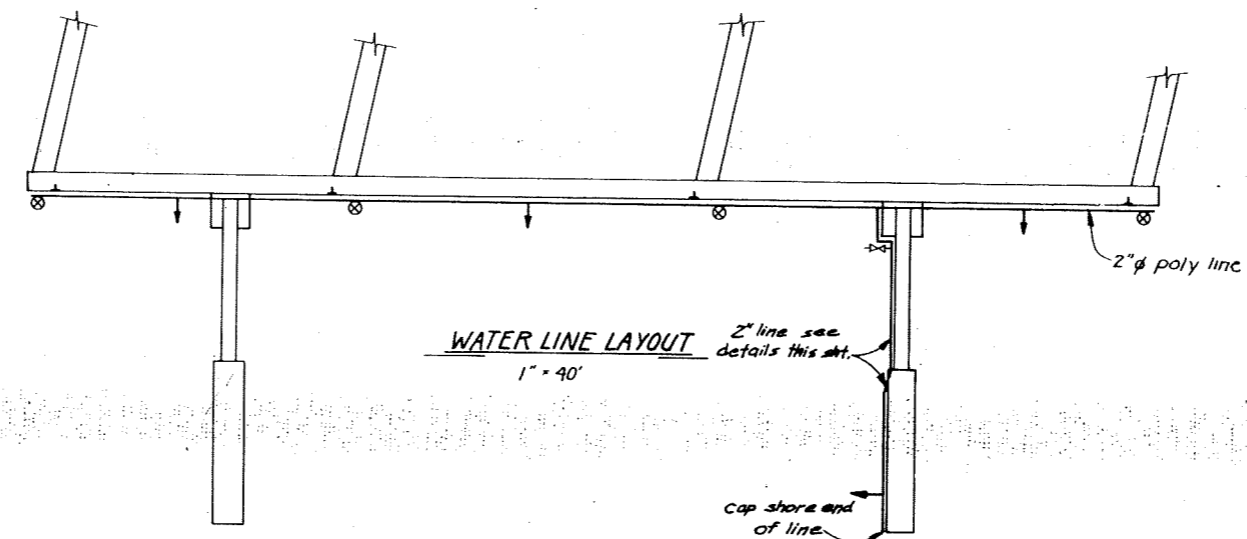
Bolt pipe to the outside of the longitudinal stringer w/ 3/8" U-bolts on 8" ctr.'s Drill mounting holes and treat w/ cold galv. solution.

SECTION B



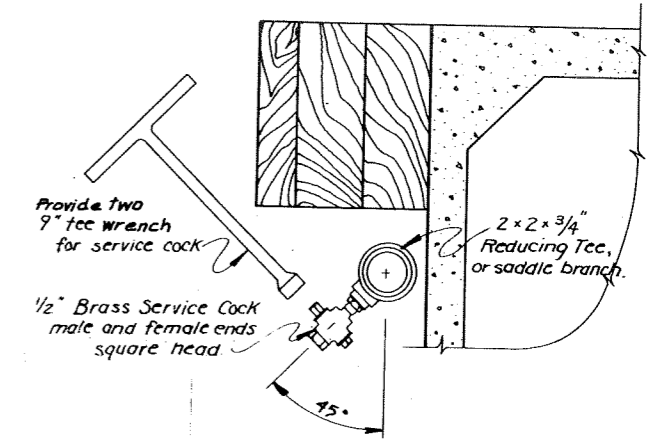
TYPICAL ASSEMBLY

1" = 1'-0"



WATER LINE LAYOUT

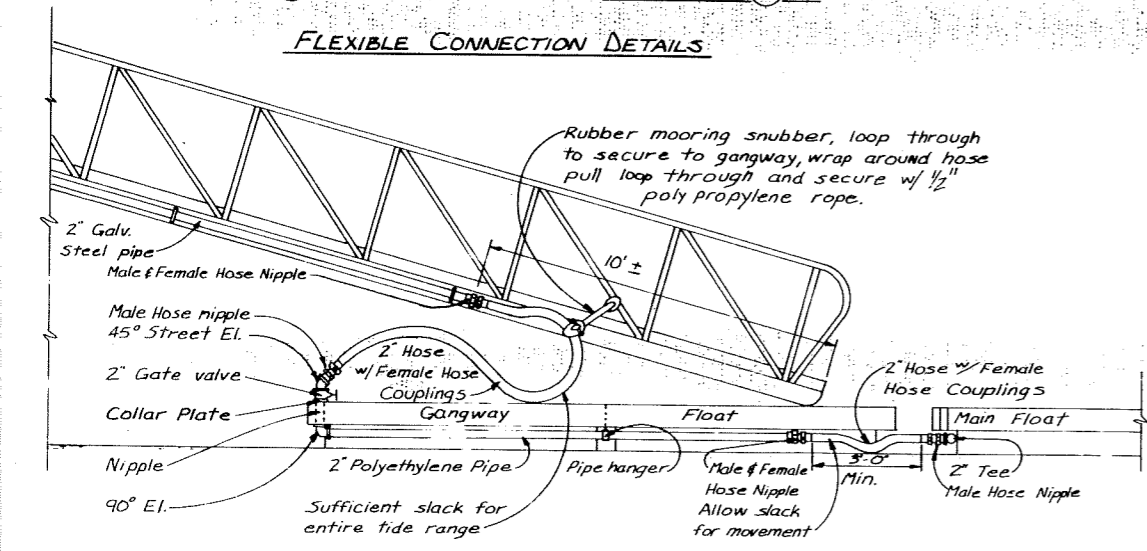
1" = 40"



DRAIN DETAIL

3" = 1'-0"

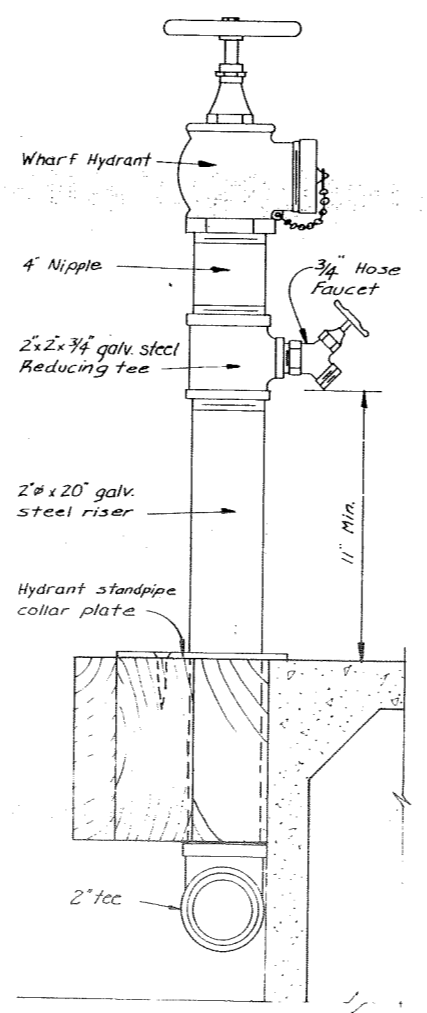
- Key:**
- 2" hydrant
 - 2" x 2" x 1" tee capped
 - Drain Cock
 - Gate valve



FLEXIBLE CONNECTION DETAILS

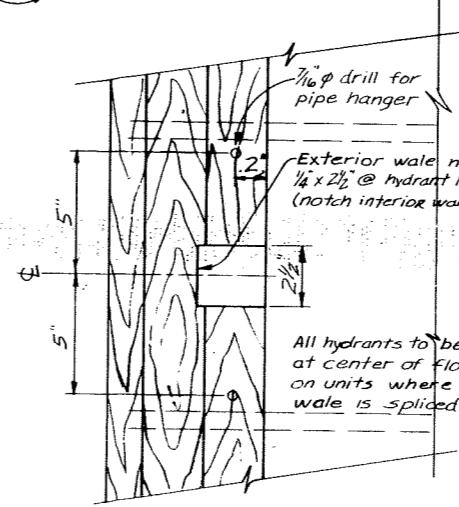
FLEXIBLE CONNECTION DETAILS

Gangway Float
scale: 3/8" = 1'-0"



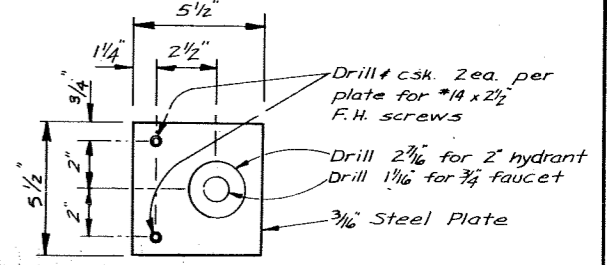
HYDRANT Detail

Scale: 3" = 1'-0"



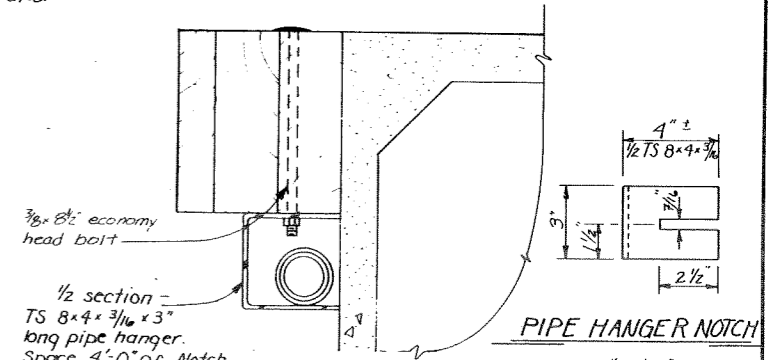
WALE NOTCH FOR HYDRANT

3" = 1'-0"



STANDPIPE COLLAR PLATE

3" = 1'-0"

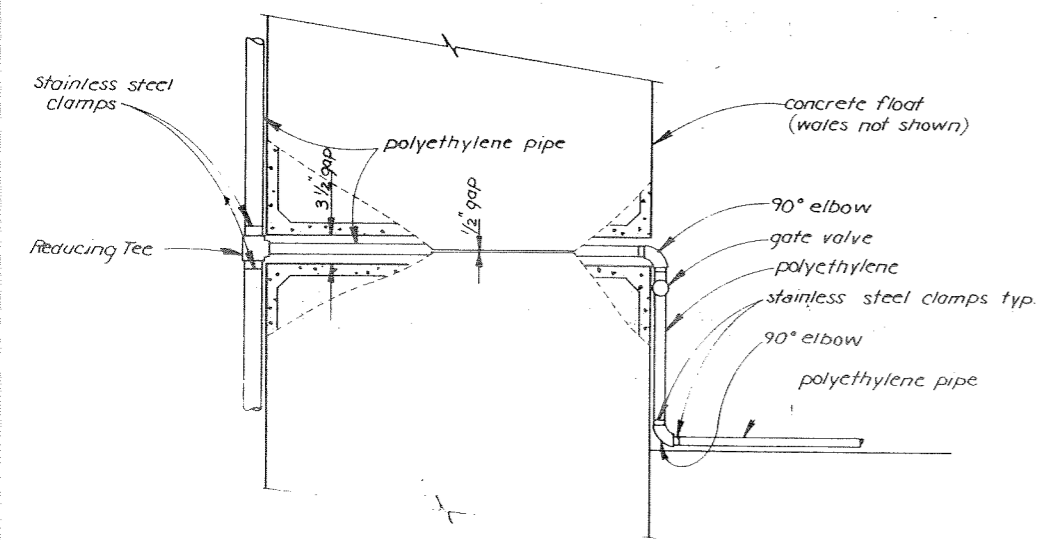


PIPE HANGER NOTCH

3" = 1'-0"

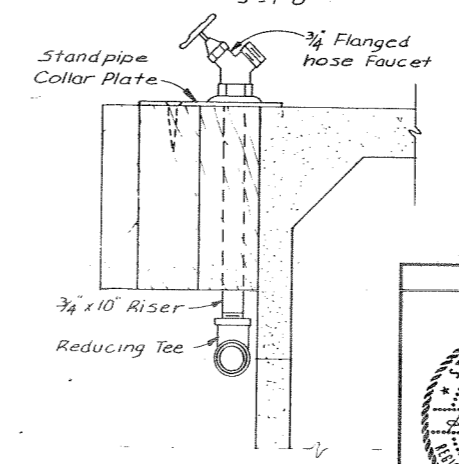
PIPE HANGER ASSEMBLY

3" = 1'-0"



MAIN FLOAT TO FINGER FLOAT

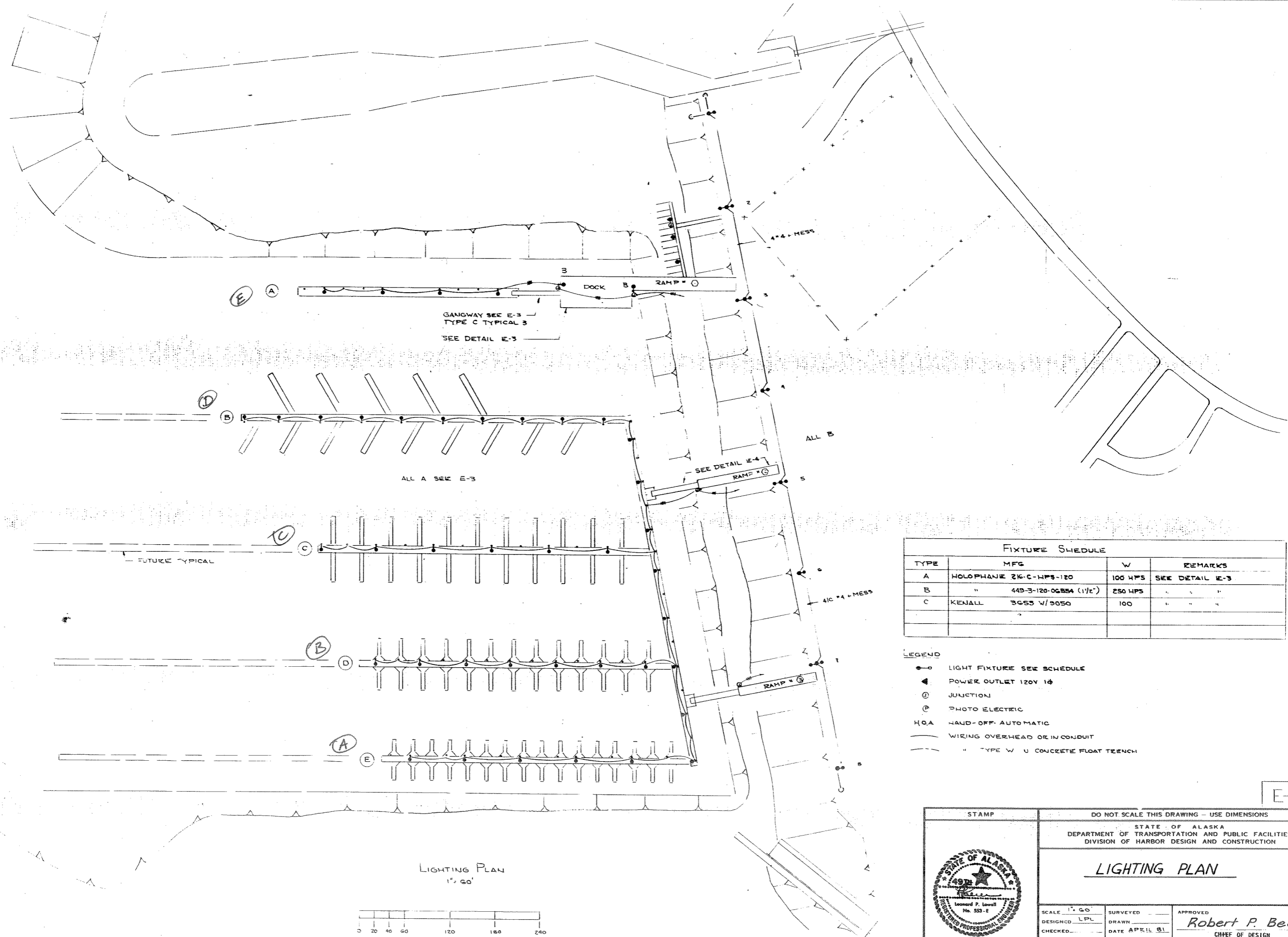
NTS



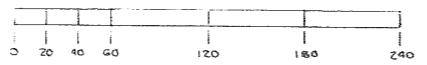
FAUCET DETAIL

Scale: 3" = 1'-0"

STAMP		DO NOT SCALE THIS DRAWING USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Moorea	Alaska
CONCRETE FLOAT WATER SYSTEM DETAILS			
DATE DESIGNED	DRAWN BY	APPROVED BY	
	RJT/CV	Robert P. Beck	
PROJECT NUMBER	K 93109	SHEET	30 OF 36

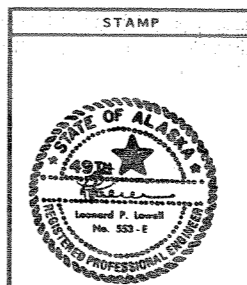


LIGHTING PLAN
1" = 60'



FIXTURE SCHEDULE			
TYPE	MFG	W	REMARKS
A	HOLOPHANE 216-C-HPS-120	100 HPS	SEE DETAIL E-3
B	" 443-B-120-06854 (1 1/2")	250 HPS	" " "
C	KENALL 3655 W/9050	100	" " "

- LEGEND
- LIGHT FIXTURE SEE SCHEDULE
 - ◀ POWER OUTLET 120V 1ϕ
 - ⊕ JUNCTION
 - Ⓟ PHOTO ELECTRIC
 - H.O.A. HAND-OFF-AUTOMATIC
 - WIRING OVERHEAD OR IN CONDUIT
 - - - TYPE W U CONCRETE FLOAT TRENCH



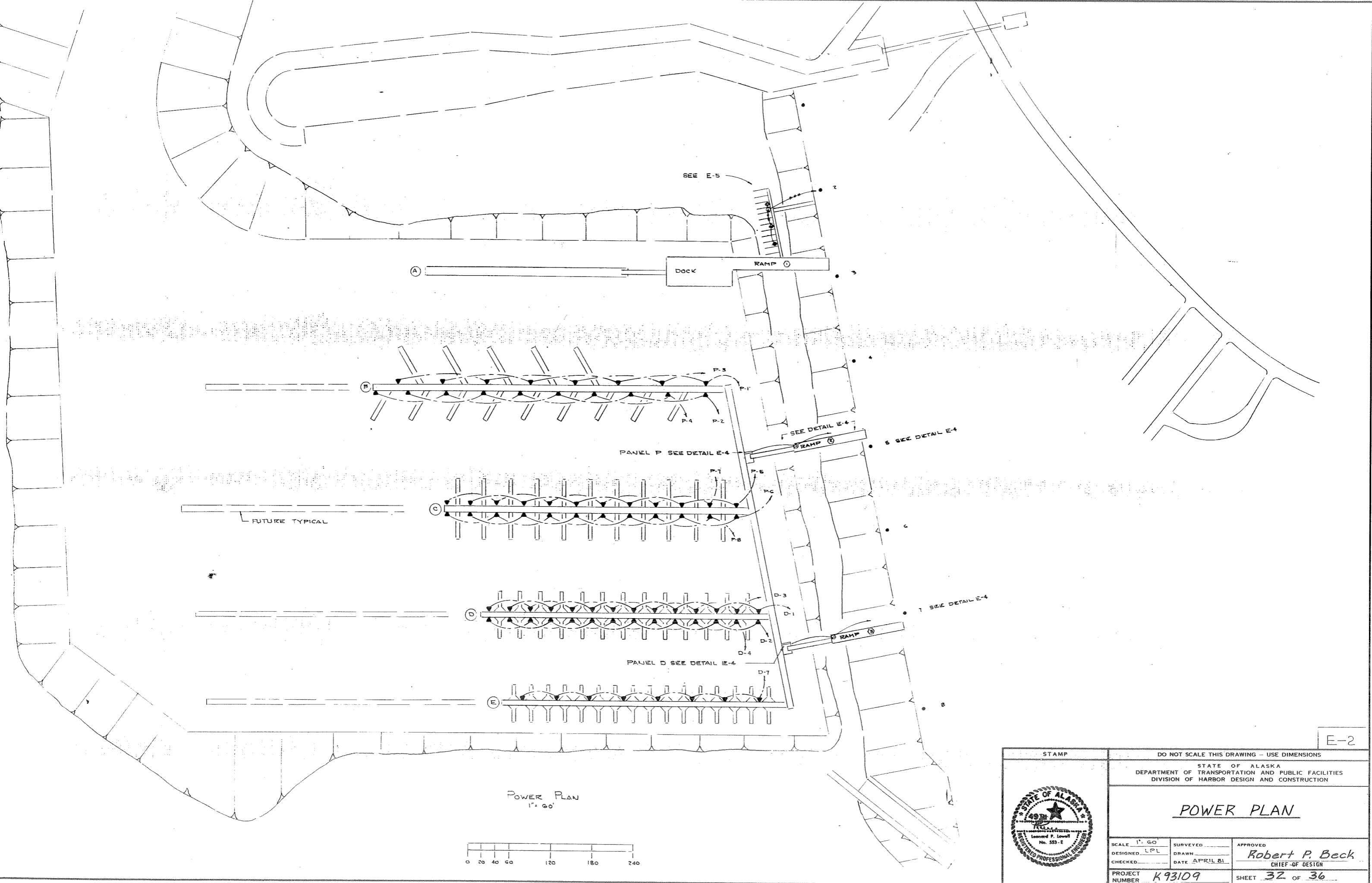
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

LIGHTING PLAN

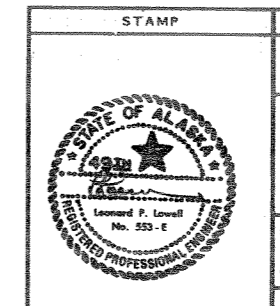
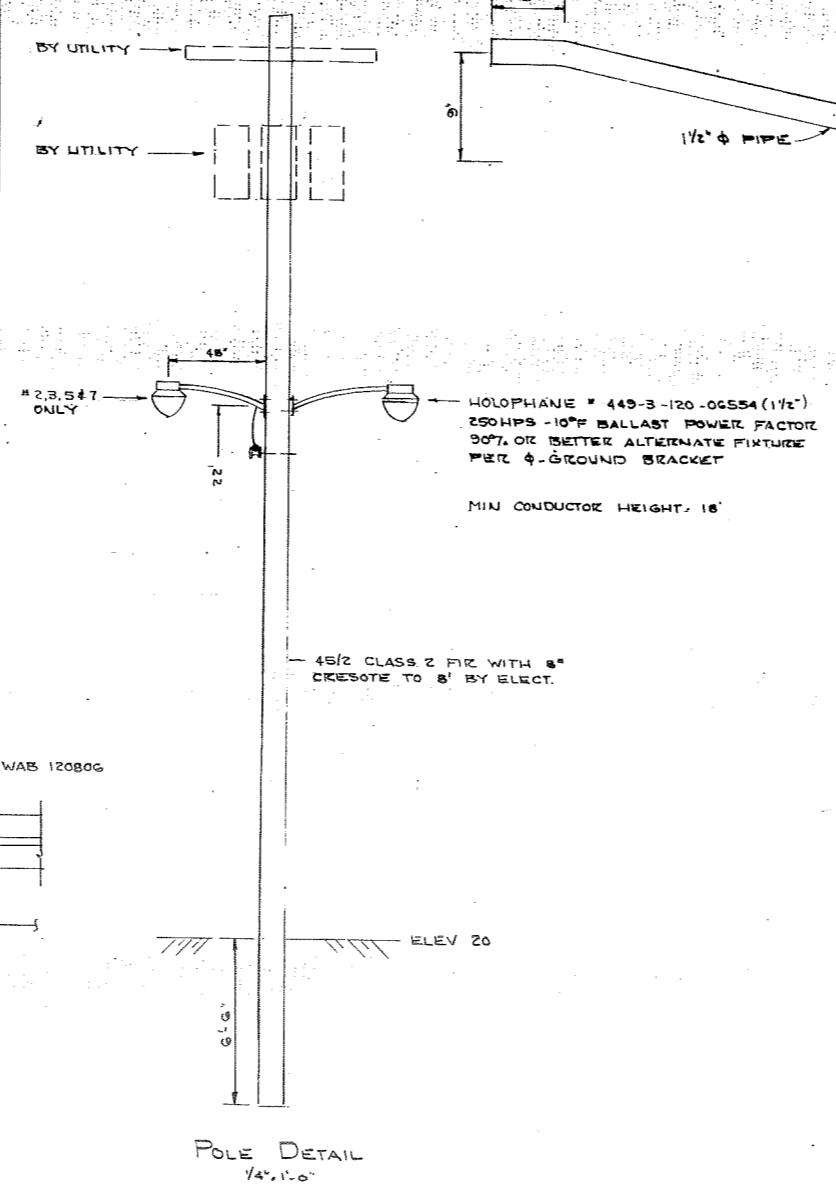
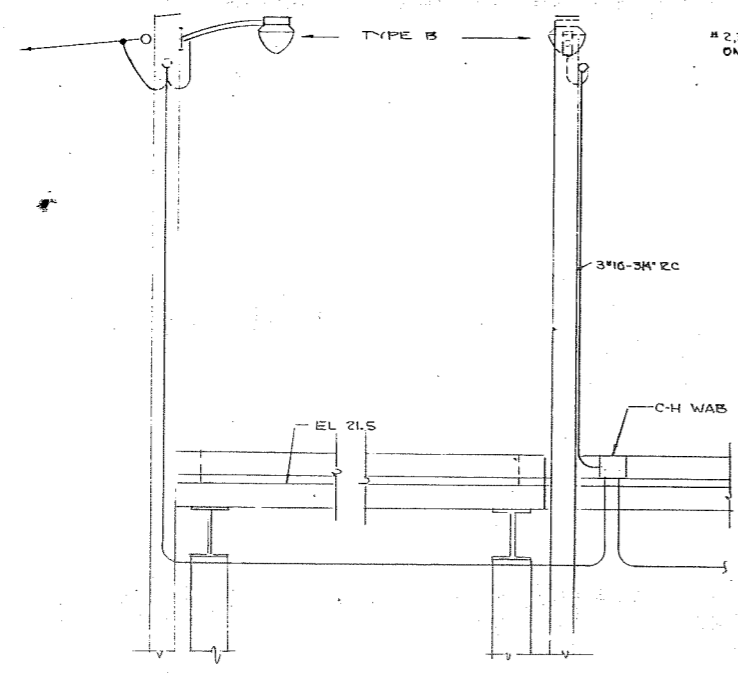
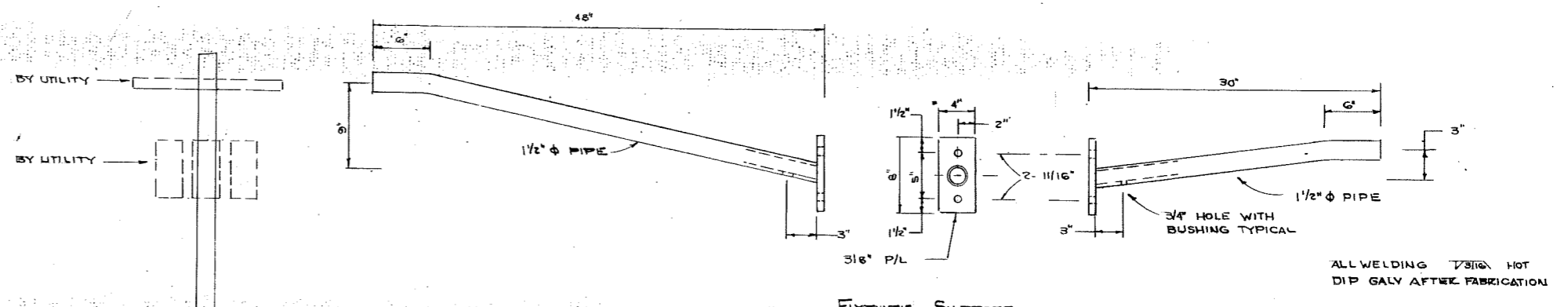
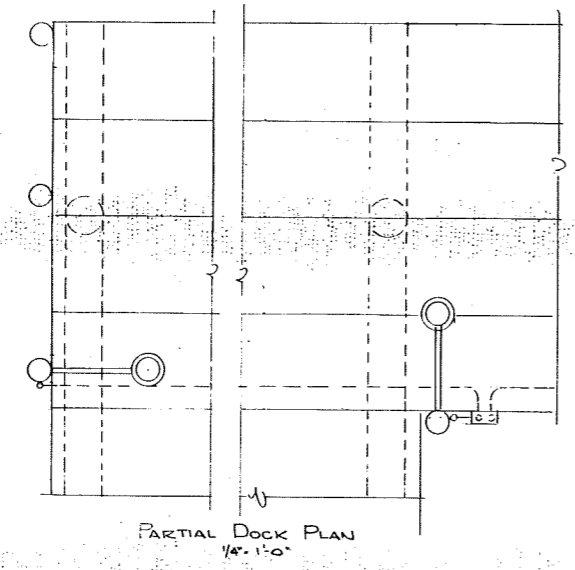
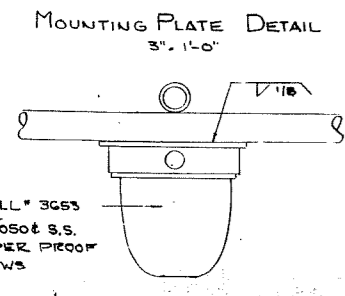
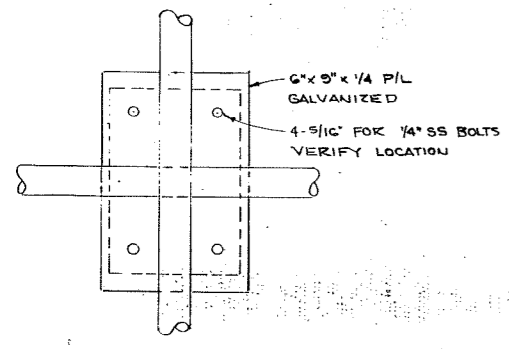
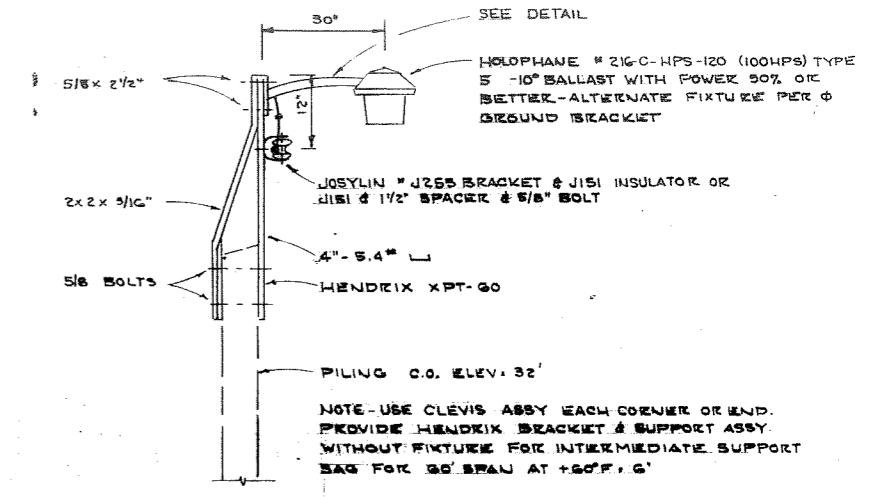
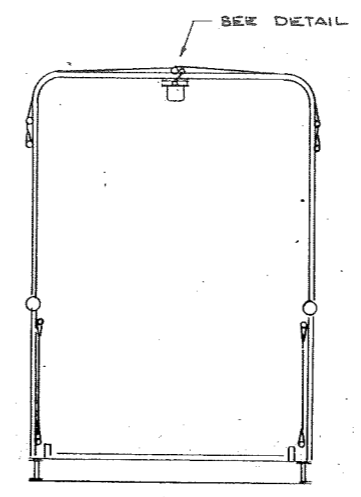
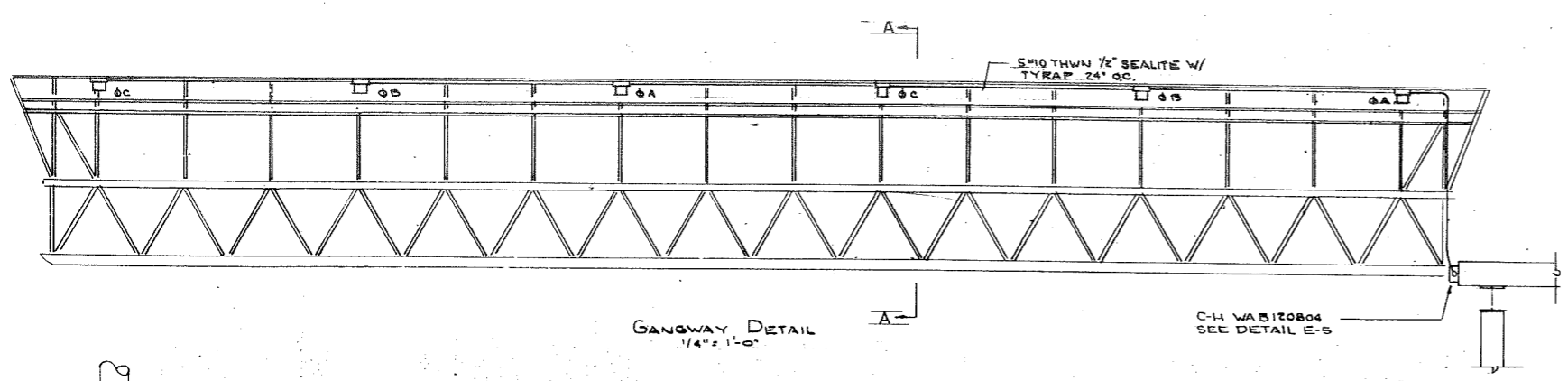
SCALE 1" = 60'	DESIGNED LPL	SURVEYED	APPROVED
CHECKED	DATE APRIL 81	Robert P. Beck CHIEF OF DESIGN	
PROJECT NUMBER K93109	SHEET 31 OF 36		

E-1



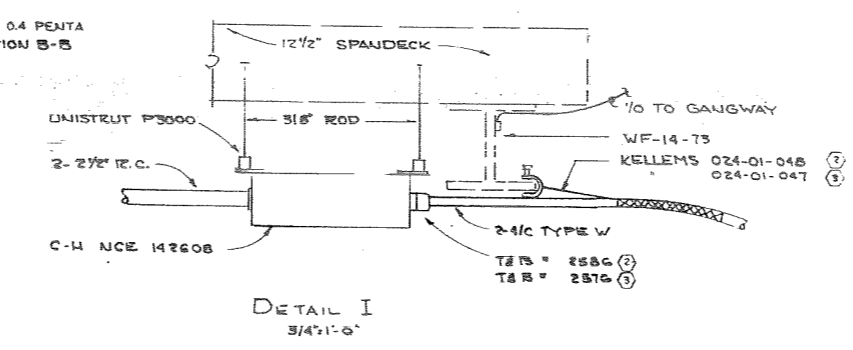
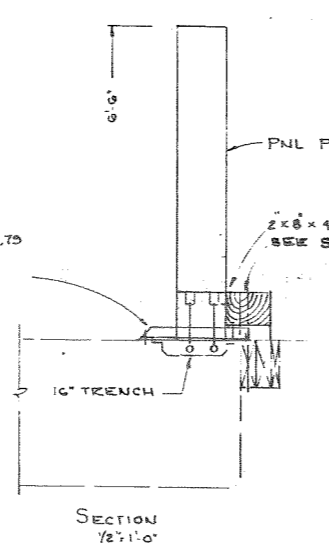
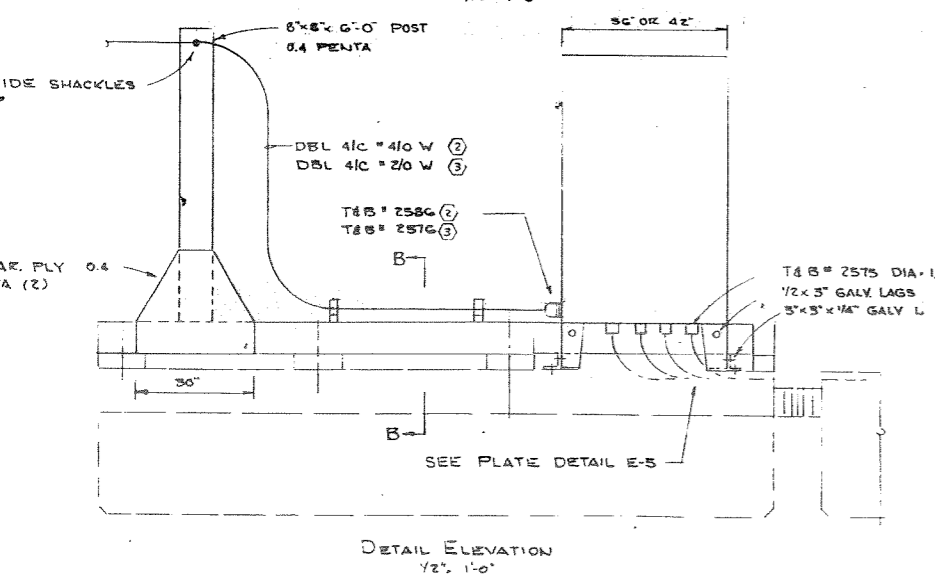
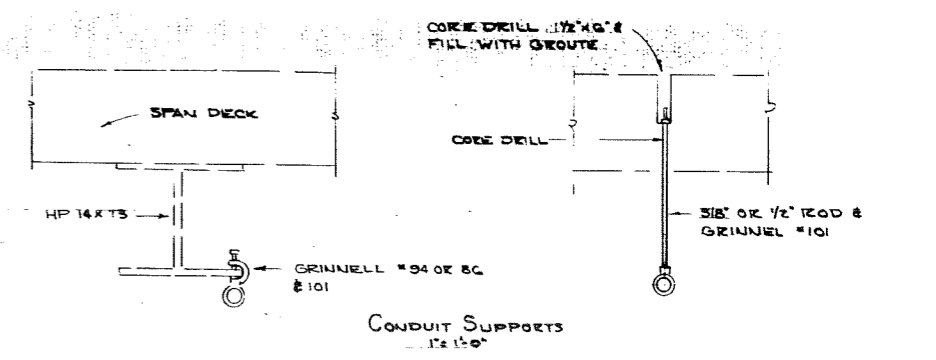
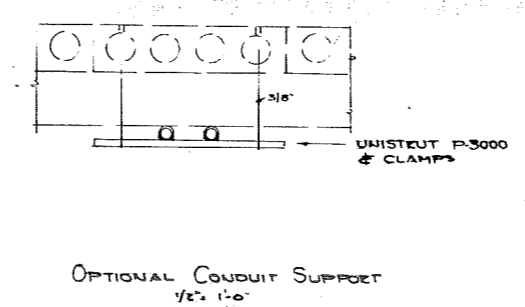
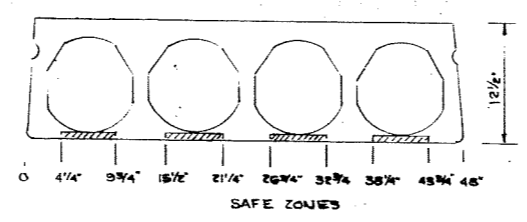
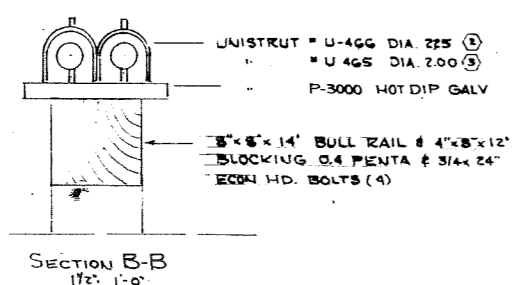
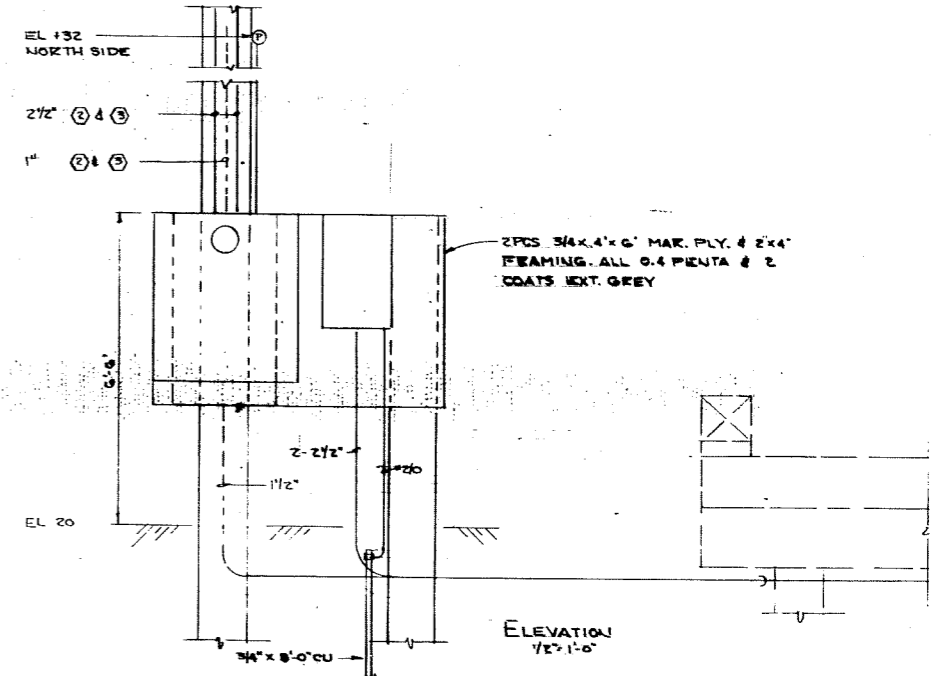
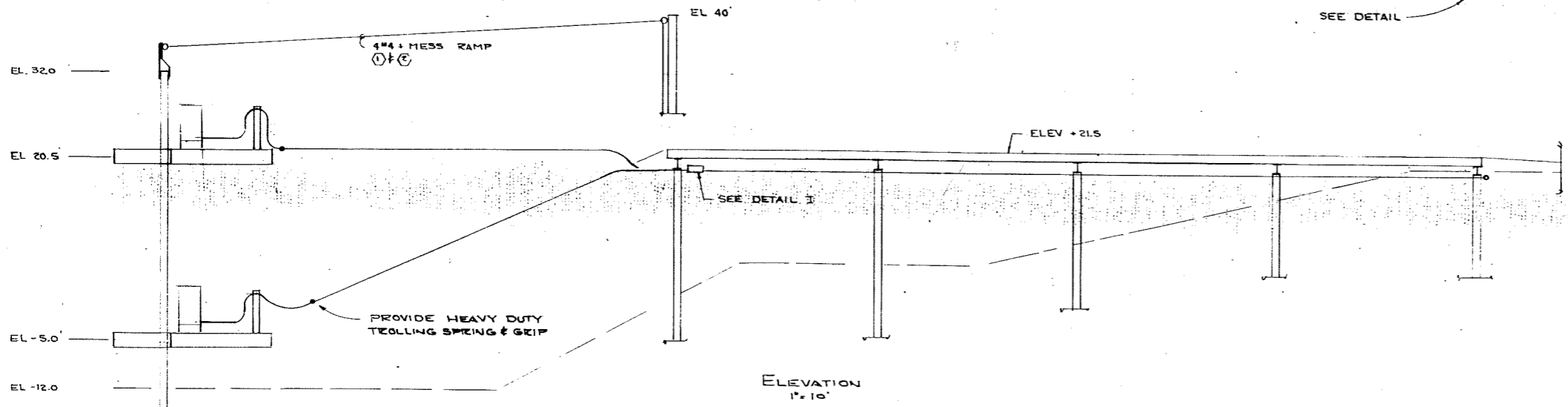
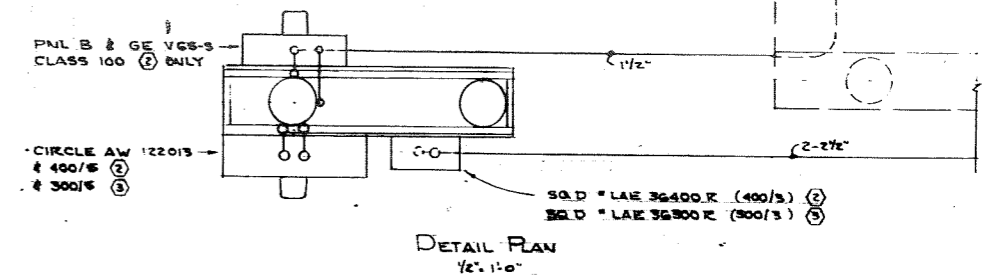
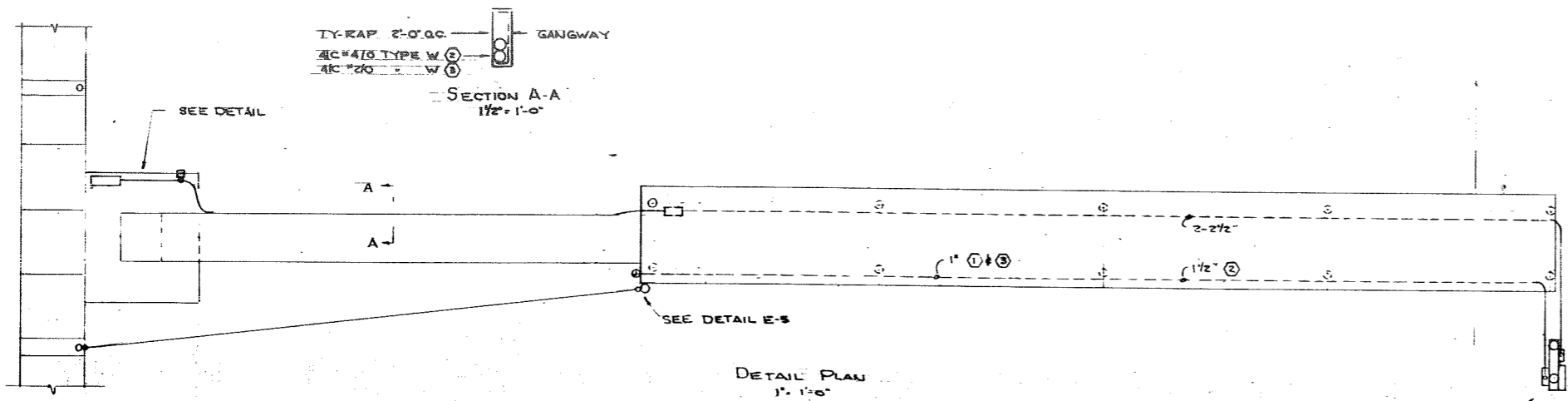
E-2

<p>STAMP</p>	<p>DO NOT SCALE THIS DRAWING - USE DIMENSIONS</p>	
	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION</p>	
<p>POWER PLAN</p>		
<p>SCALE 1" = 60'</p> <p>DESIGNED LPL</p> <p>CHECKED _____</p> <p>PROJECT NUMBER K93109</p>	<p>SURVEYED _____</p> <p>DRAWN _____</p> <p>DATE APRIL 81</p>	<p>APPROVED</p> <p><i>Robert P. Beck</i> CHIEF OF DESIGN</p> <p>SHEET 32 OF 36</p>



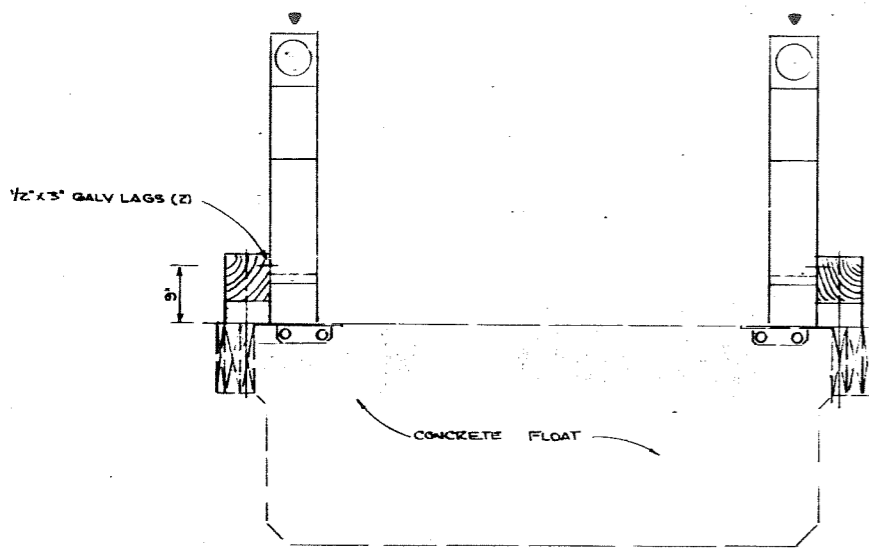
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
ELECTRICAL DETAILS		
SCALE NOTED DESIGNED LPL CHECKED	SURVEYED DRAWN APRIL 81 DATE	APPROVED Robert P. Beck CHIEF OF DESIGN
PROJECT NUMBER K 93109		SHEET 33 OF 36

E-3

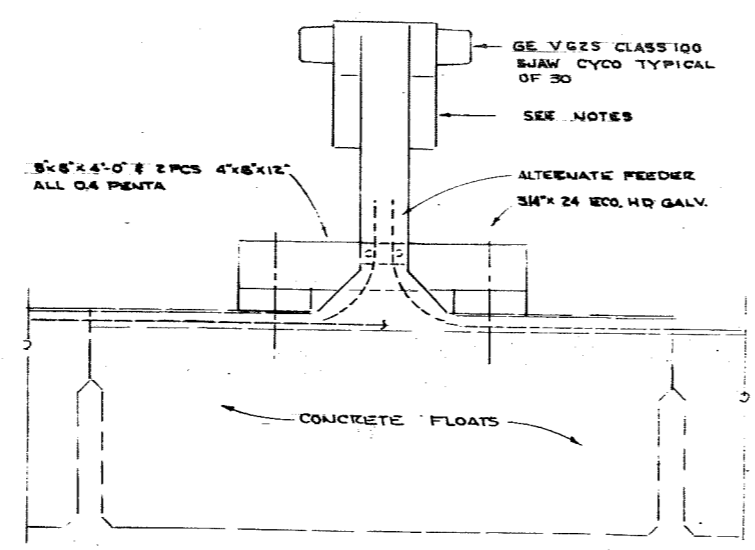


STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		ELECTRICAL DETAILS	
SCALE NOTED	SURVEYED	APPROVED	
DESIGNED LPL	DRAWN	Robert P. Beck <small>CHIEF OF DESIGN</small>	
CHECKED	DATE APRIL 61		
PROJECT NUMBER	K 93109	SHEET 34 OF 36	

E-4



SECTION 3-A-1
1/2" x 1'-0"



ELEVATION 3-A-1
3/4" x 1'-0"

METER STAND NOTES

1. POST 8"x8"x12 QUAGE
2. ALL SCREWS, BOLTS, POP RIVETS ETC TO BE STAINLESS STEEL
3. ALL PARTS EXCEPT BASE TO BE HOT GALV. OR GALVNEALLED PER ASTM S25 WITH PADE RESISTANT MARINE BLUE FINISH
4. ALL CIRCUIT BREAKERS TO BE 20A-1P 80 D NCO OF EQUAL & 30A-120V TCCP HUBBELL 31CM 20 OR EQUAL
5. PROVIDE MATCHING CAP FOR 30 OUTLETS
6. ALL INTERNAL WIRING TO BE COPPER STRANDED #10 AWG MIN
7. PROVIDE DOUBLE GROUND LUG FOR #10
8. ALTERNATE EACH METER FOR EACH Ø TO BALANCE FEEDER
9. PROVIDE 30 SJAW METER AS NOTED & 1 PLASTIC COVER FOR EACH SOCKET-INSTALL AS DIRECTED

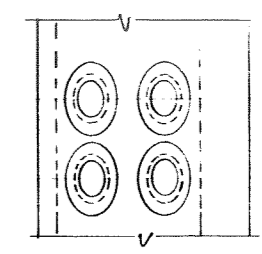
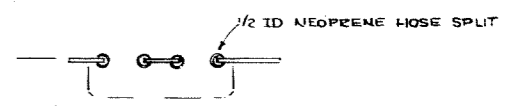
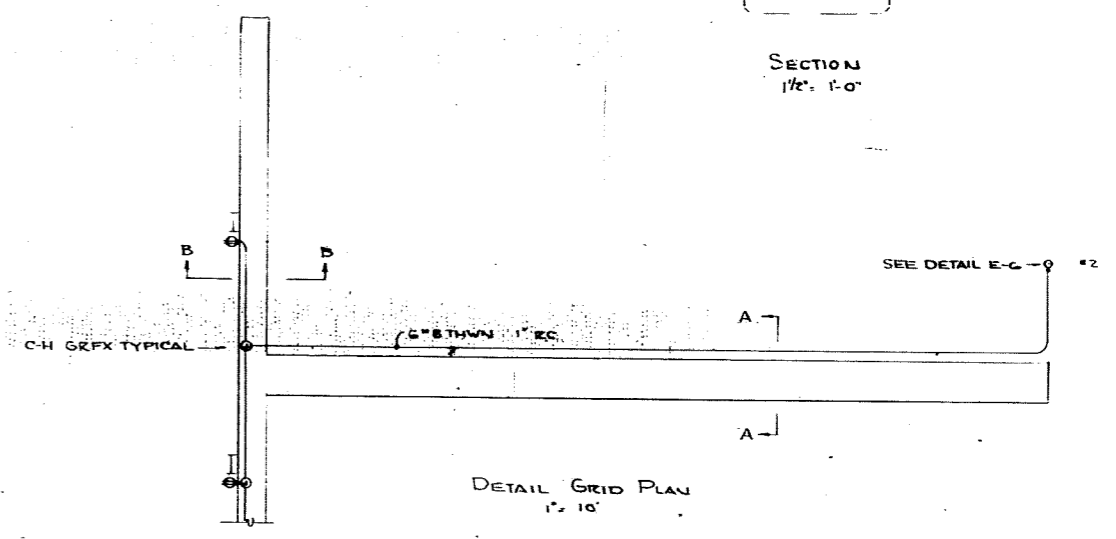


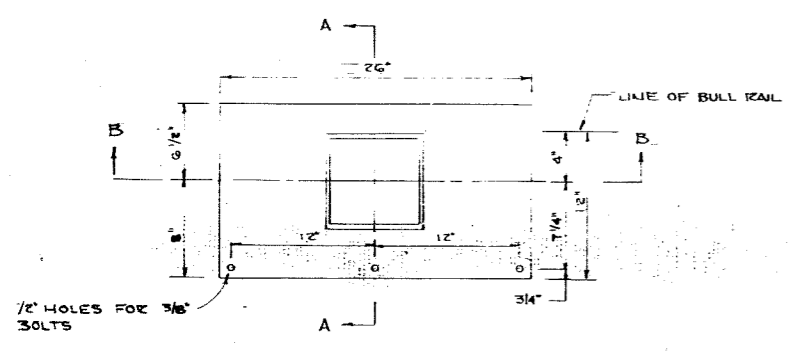
PLATE DETAIL
1/2" x 1'-0"



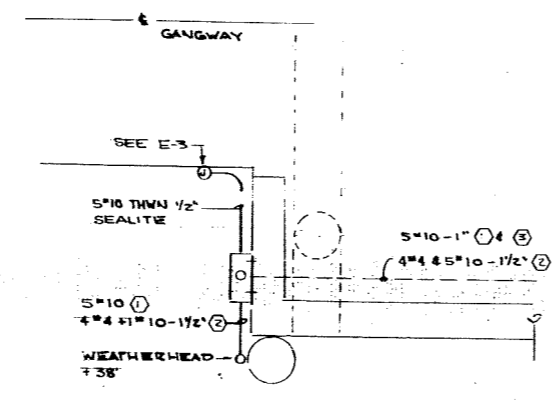
SECTION 1/2" x 1'-0"



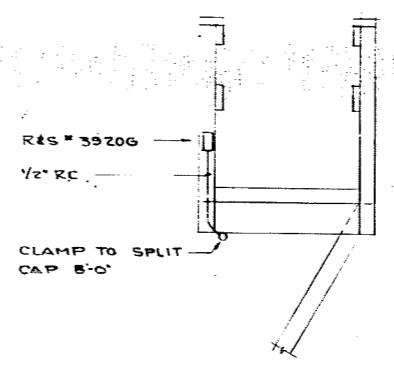
DETAIL GRID PLAN
1/2" x 1'-0"



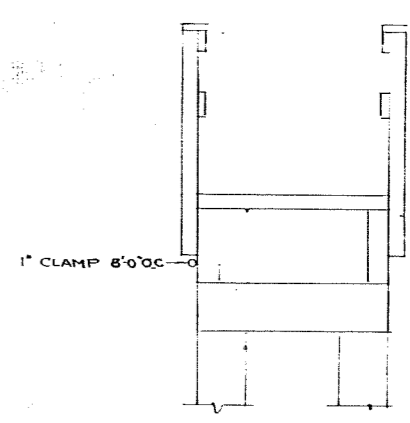
METER STAND BASE
1/2" x 1'-0"



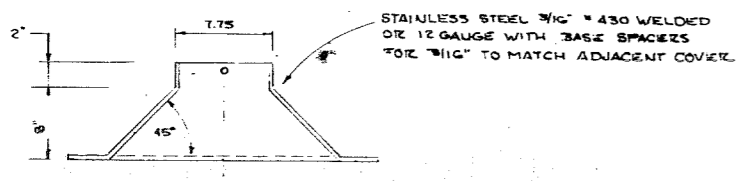
APPROACH DETAIL PLAN
1/2" x 1'-0"



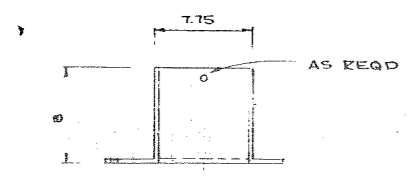
SECTION B-B
1/2" x 1'-0"



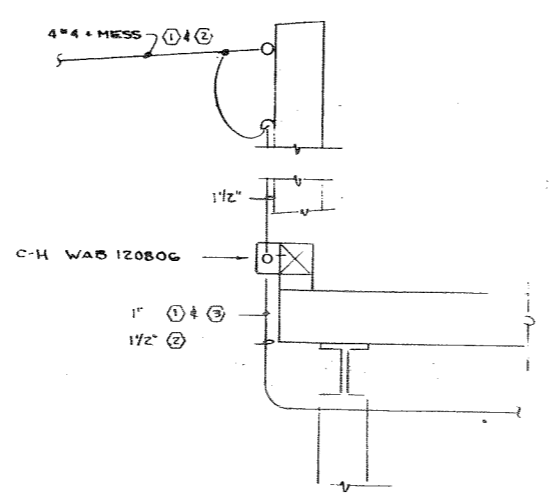
SECTION A-A
1/2" x 1'-0"



SECTION 3-B
1/2" x 1'-0"



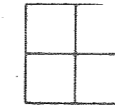
SECTION A-A
1/2" x 1'-0"



ELEVATION
1/2" x 1'-0"

E-5

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		ELECTRICAL DETAILS	
SCALE NOTED	SURVEYED	APPROVED	
DESIGNED LPL	DRAWN APRIL 81	Robert P. Beck CHIEF OF DESIGN	
CHECKED	DATE		
PROJECT NUMBER	K 93109	SHEET 35 OF 36	



STAKING SHEET

SYSTEM DESIGNATION: _____
 LOCATION: _____
 TWP: _____ RANGE: _____ SECTION: _____
 MAP REFERENCE: _____

NO. OF MEMBERS: _____
 PRIMARY LINE (FEET): _____
 SECONDARY (FEET): _____
 SERVICE DROPS (FEET): _____

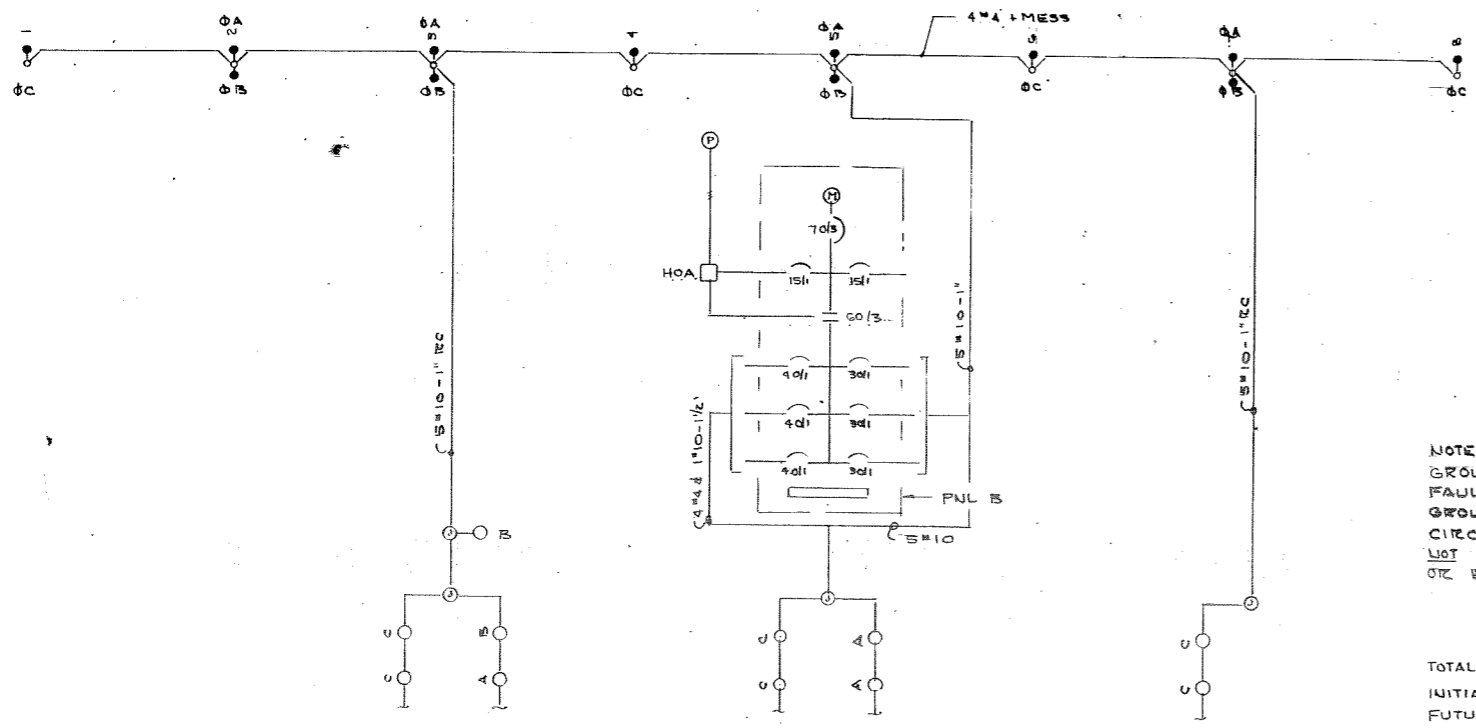
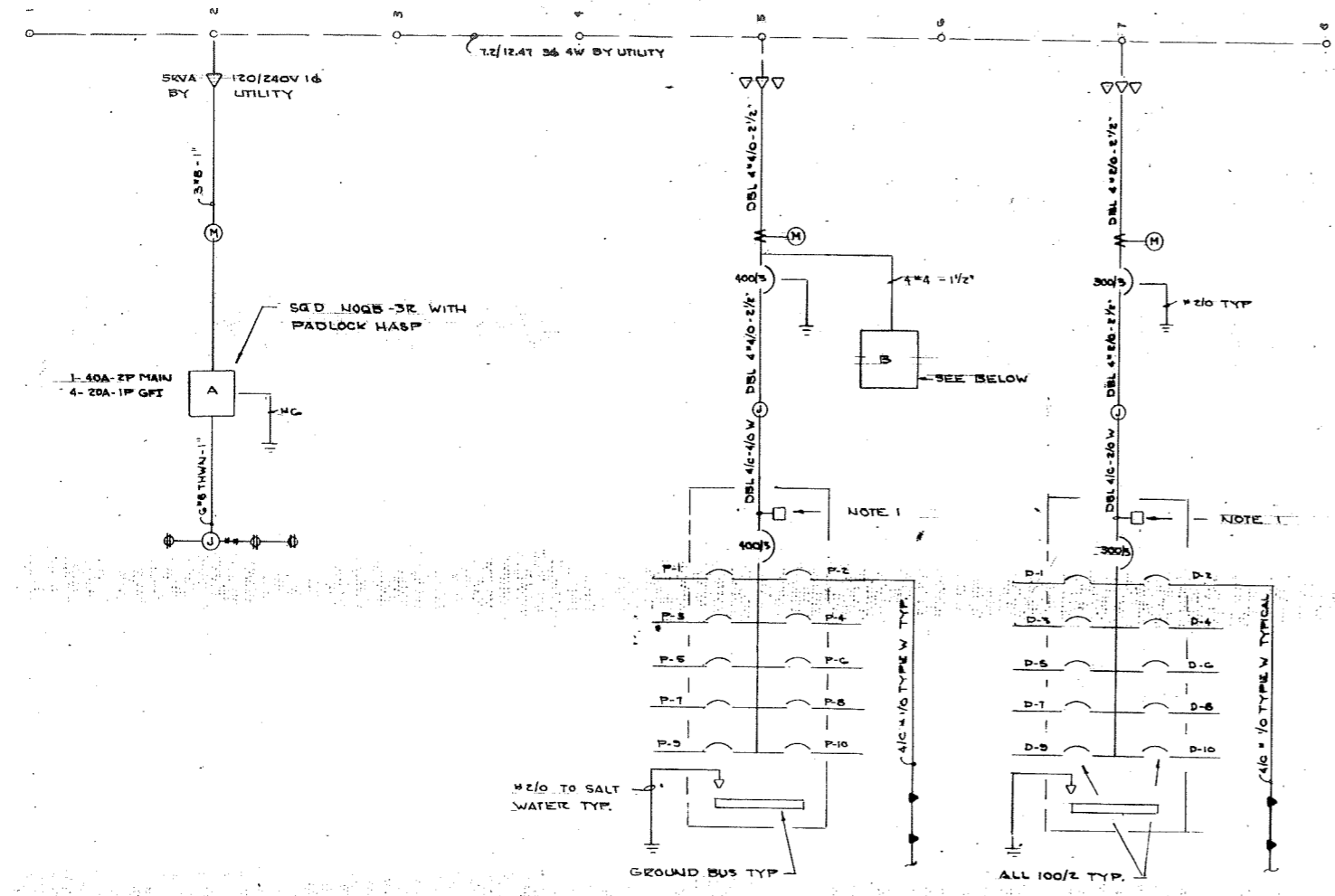
Sketch of Work

COSTS OR NO. NO.	POLE NO.	LINE ANGLE	SPAN BACK	WIRE SIZE	PRIMARY				SECONDARY				METER	NAME AND REMARKS	
					POLES INC.	PRI UNIT	R W CLEAR	TRANS "G"	GROUND	UNIT "E"	LINE "L"	NO. WIRES & SIZE			UNIT "X"
	1	0°		45/2	#					2	20	E	J-6		15
	2												J-5	125	25 SEE DETAIL
	3												J-5	125	25 " "
	4												J-5	125	25 " "
	5												J-5	124	25 SEE DETAIL E-4
	6												J-5	124	25 " "
	7												J-5	124	25 SEE DETAIL E-4
	8	0°		45/2	#					2	20	E	J-6	140	15

PRIMARY & TRANSFORMERS BY UTILITY
 ■ 4x4 CU + MESS. GE # 61-58060 COLOR CODED - AT CONTRACTOR'S OPTION
 □ 4x6 CU + " " " " INCL OVDH AT FLOAT "A"

NUMBER POLES ON SKETCH AT TAPS, CORNERS, TRANSFORMERS AND DEAD ENDS INDICATE RETIRED UNITS WITH REPLACED UNIT RESET METERS AND TRANSFORMERS SHEET NO. OF _____

STAKER: _____ BY _____
 CHECKED: _____ BY _____
 RELEASED FOR CONST: _____
 LINE LEAD: _____



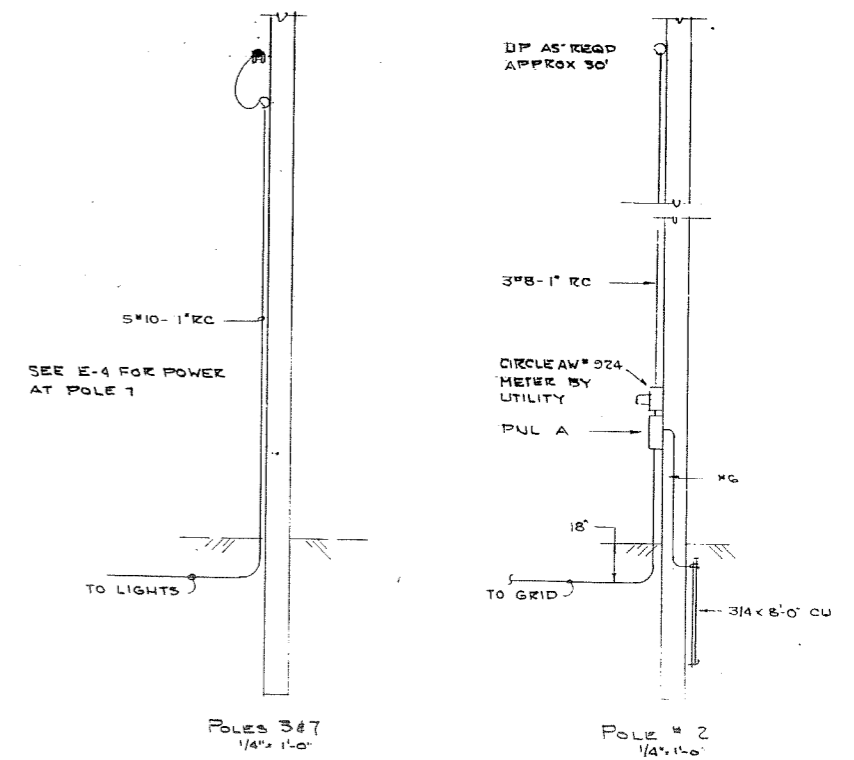
ONE LINE DIAGRAMS
 NO SCALE

NOTE 1 PANEL D & P TO INCL SQD CLASS 850G GROUND DETECTOR WITH GREEN LIGHT FOR NO FAULT & RED LIGHT SET FOR SA - CONNECT GROUND TO NEUTRAL AHEAD OF DETECTOR. MAIN CIRCUIT BREAKER TO BE SHUNT TRIP BUT DO NOT CONNECT TO TRIP. PULS SQUARE D I LINE OR EQUAL IN HOFFMAN OR EQUAL CABINET 3R OR 12

TOTAL CONNECTED	* PUL P	* PUL D	LIGHTS	GRID
INITIAL	51.0	36.9	9.9	4.5
FUTURE	67.2	55.0	4.5	—
TOTAL	118.2	91.9	14.4	4.5

235.0KW

* DIVERSITY AVG 65.2%
 PRESENT ELECTRICAL RATE 30%+ WILL LOWER WINTER DEMAND SUBSTANTIALLY - FUTURE RATE PROJECTED AT 10%±



STAMP

DO NOT SCALE THIS DRAWING USE DIMENSIONS

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

ELECTRICAL DETAILS

NOTED: _____
 DESIGNED: LPL
 CHECKED: _____
 PROJECT NUMBER: K93109

SUBMITTED: _____
 DATE: APRIL 81

APPROVED:
Robert P. Beck
 CHIEF OF DESIGN

SHEET 36 OF 36