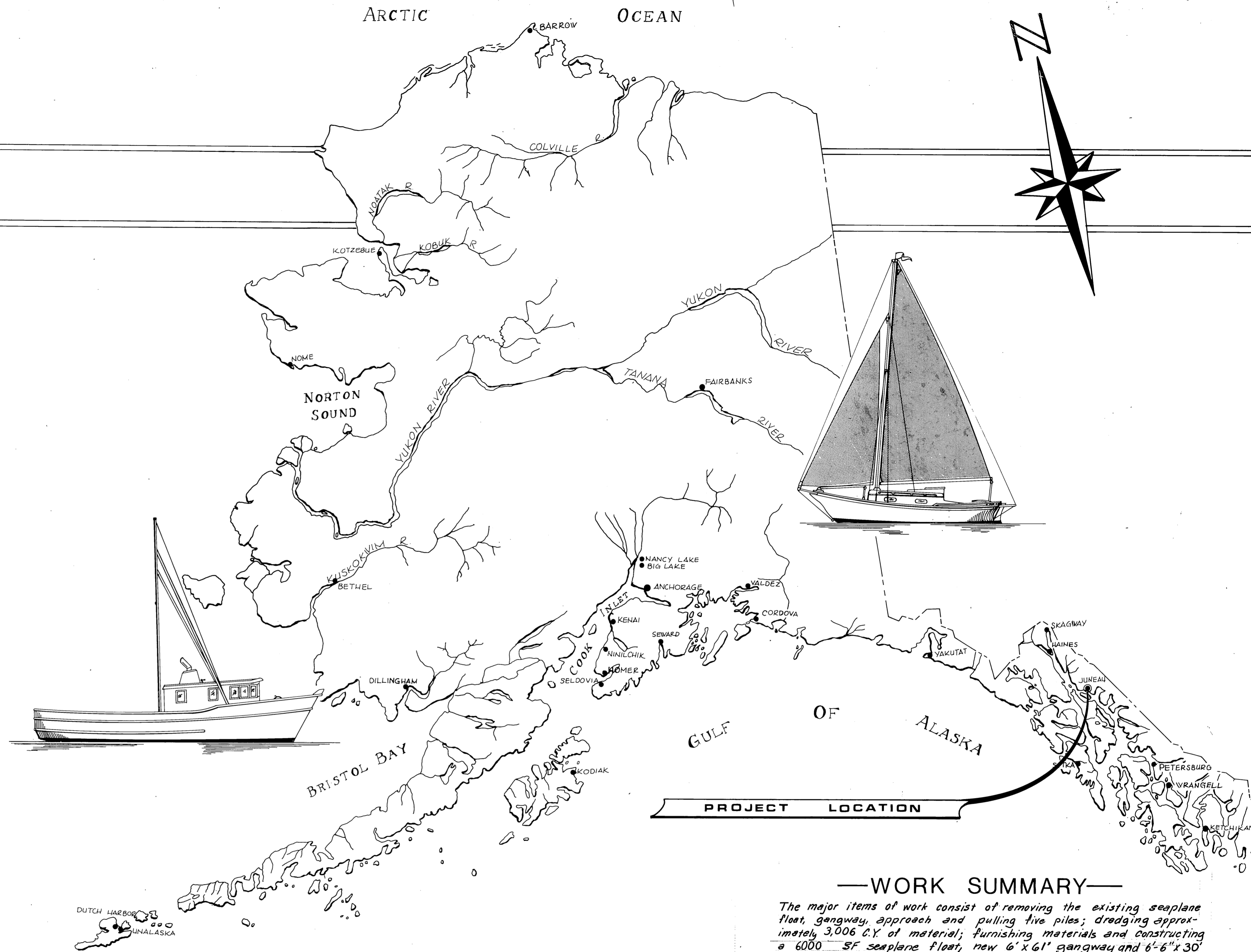


JUNEAU
SEAPLANE FLOAT
PROJECT NO. D19172
A.I.P. 83-1-3-0201-3301 83
3-02-0403-01



AS BUILT PLANS

Contractor: T.O. Paddock Co.
 Project Engineer: Soc Kreuzenstien
 Begin Date: Sept. 23, 1983
 Completion Date: April 1984

—WORK SUMMARY—

The major items of work consist of removing the existing seaplane float, gangway, approach and pulling five piles; dredging approximately 3,006 cu yd of material; furnishing materials and constructing a 6000 SF seaplane float, new 6' x 61' gangway and 6'-6" x 30' approach; driving 15 timber piles and constructing a 6" ϕ insulated water main with hydrant and fresh water service to float; constructing an electrical lighting and power system; and furnishing fire protection equipment.

"As Built" April, 1984

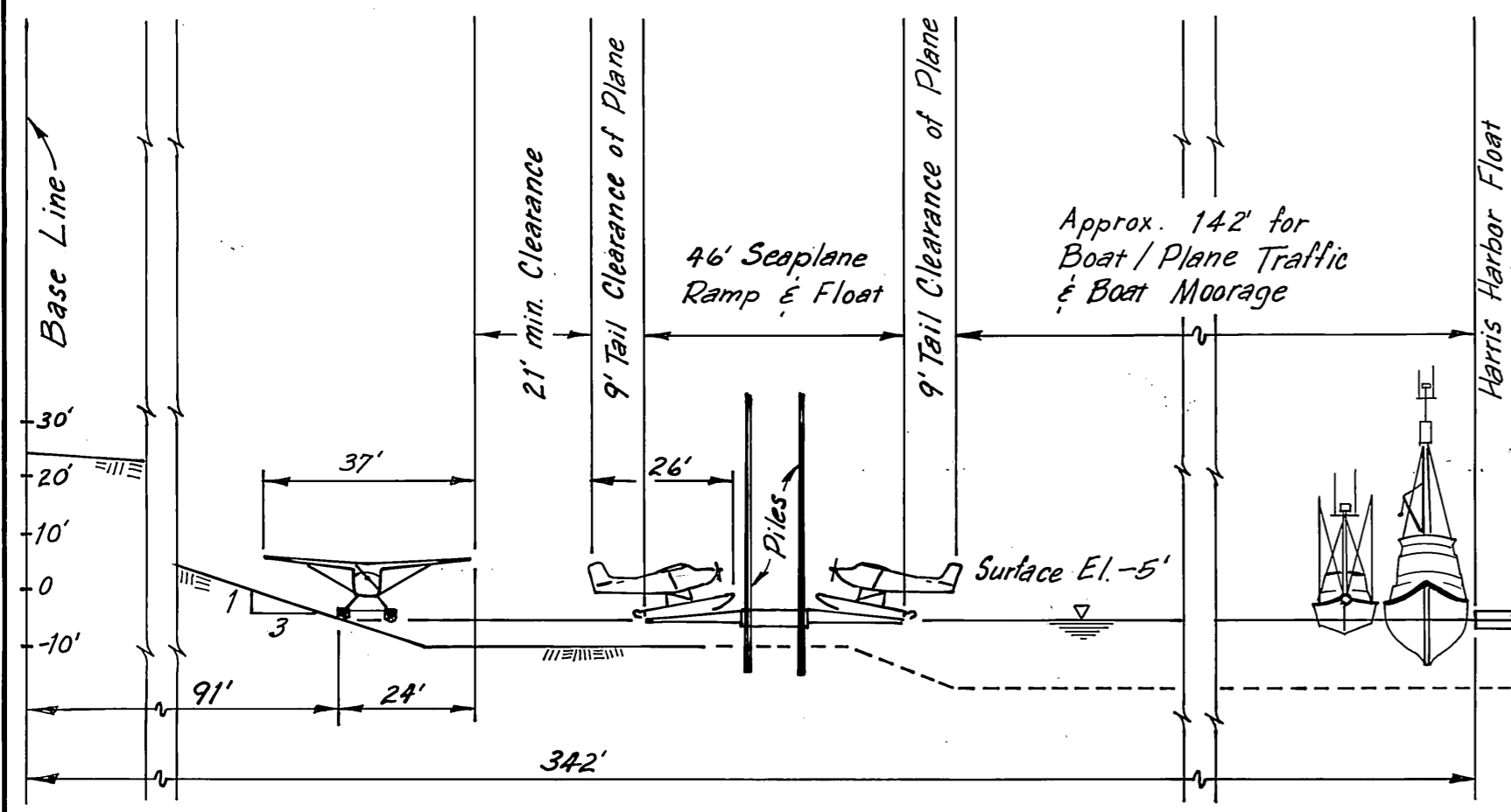
INDEX TO SHEETS

1	TITLE SHEET	14	Supplemental Sheets 1-4 (floats, elect., water)
2	EXISTING FACILITIES		
3	SEAPLANE FLOAT LAYOUT		
4	APPROACH		
5	61' STEEL GANGWAY (SHEET A)		
6	61' STEEL GANGWAY (SHEET B)		
7	GANGWAY FLOAT DETAILS		
8	FLOAT FRAMING PLAN		
9	TYPICAL SEAPLANE TIE-DOWN		
10	WATER SYSTEM		
11	WATER SYSTEM SERVICE CONN.		
12	THRUST BLOCKS		
13	ELECTRICAL		

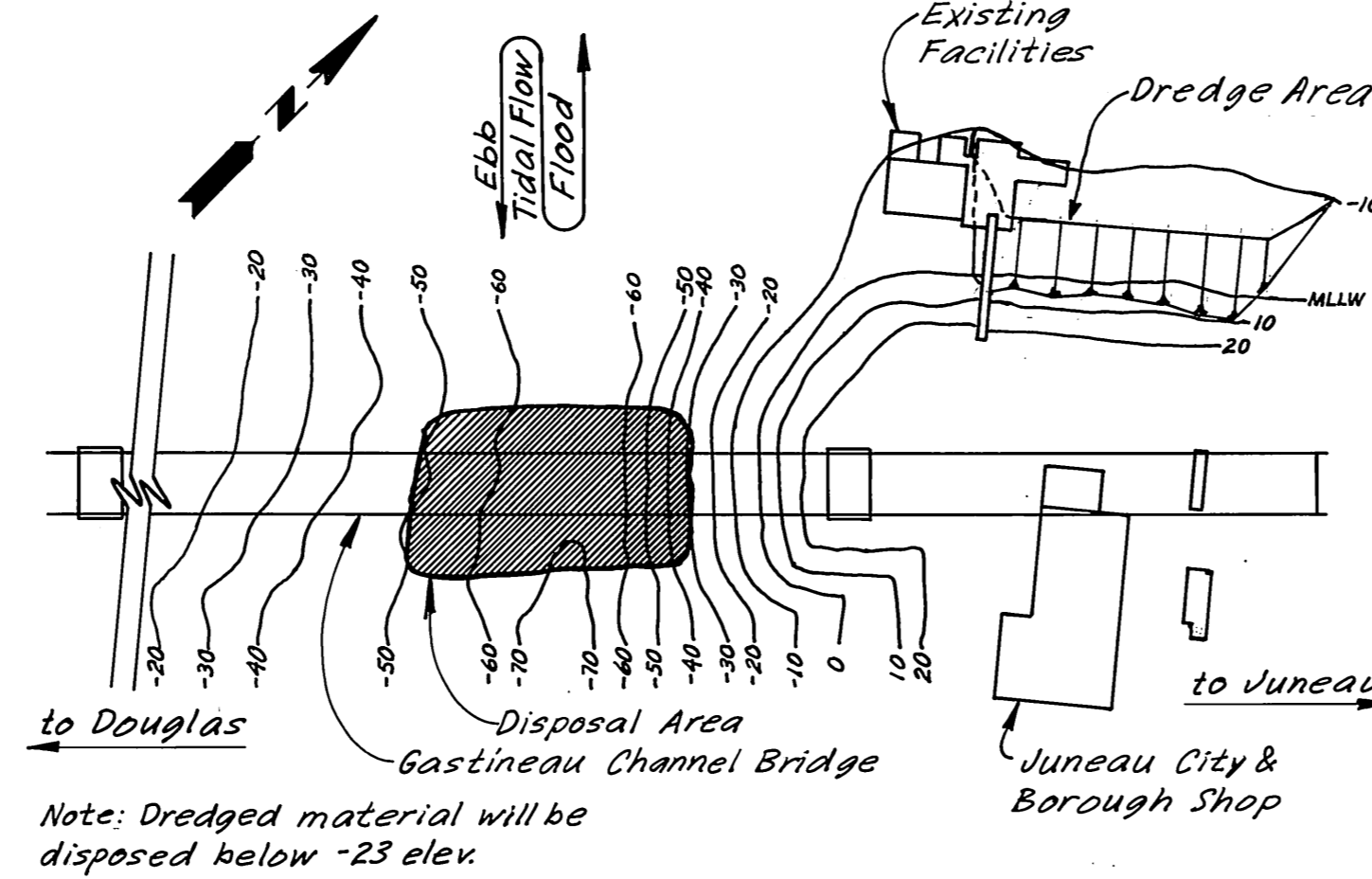
STATE OF ALASKA

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

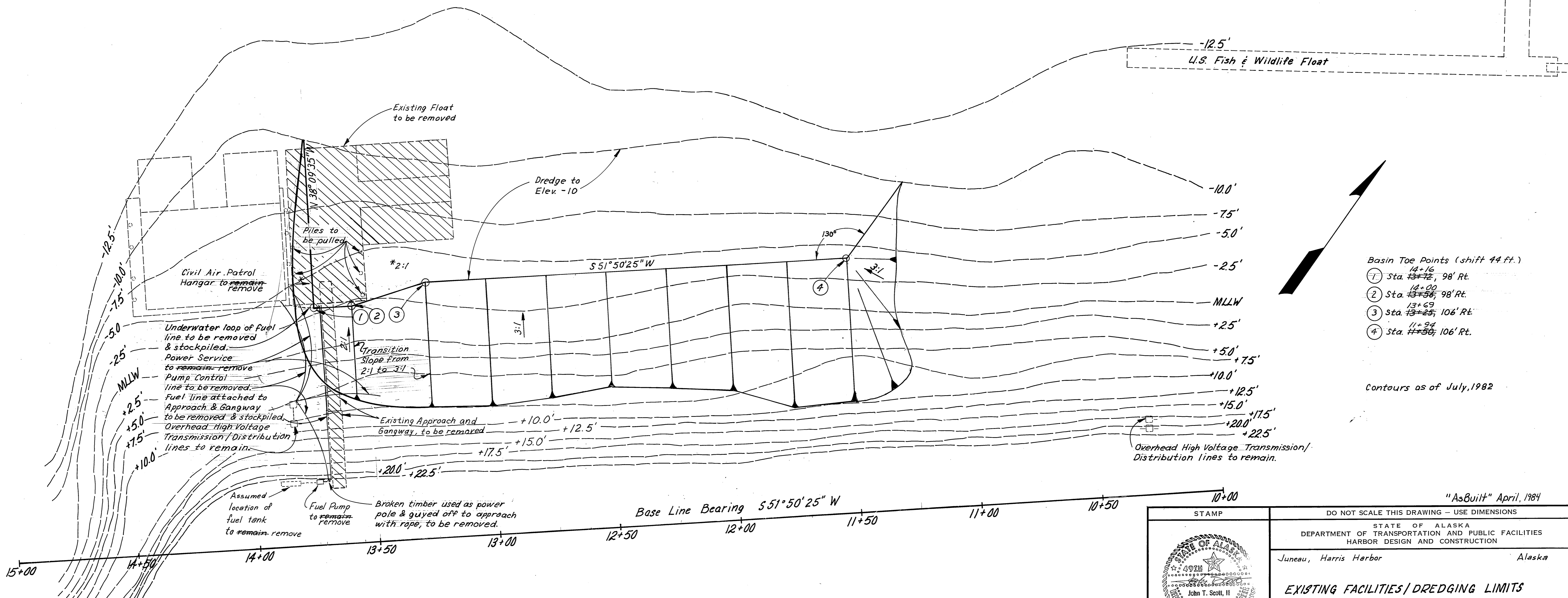
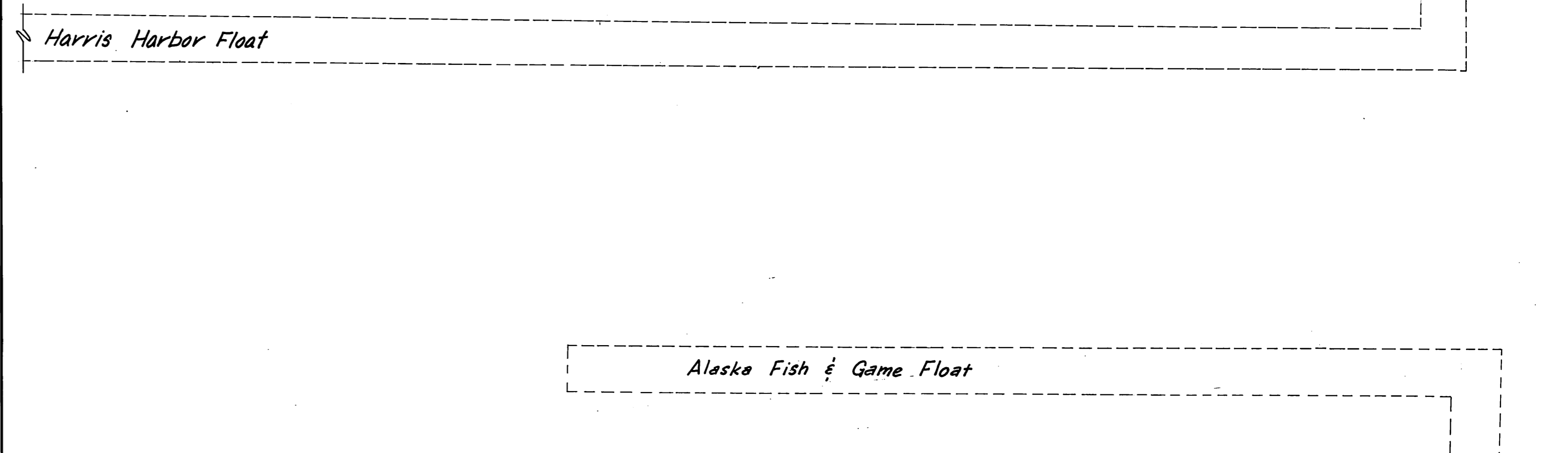
APPROVED
Charles T. Paddock 1-28-83
 DIRECTOR S.E. D. & C. DATE
 RECOMMEND FOR APPROVAL
Harold... 1-28-83
 CHIEF S.E. HARBOR D. & C. DATE
 SHEET 1 OF 13/14



FLOATPLANE FACILITY TYPICAL SECTION
Scale: 1" = 30'



DISPOSAL AREA
Scale: 1" = 120'



PLAN
Scale: 1" = 20'

- Basin Toe Points (shift 44 ft.)
- ① Sta. 14+16, 98' Rt.
 - ② Sta. 14+00, 98' Rt.
 - ③ Sta. 13+69, 106' Rt.
 - ④ Sta. 11+94, 106' Rt.

Contours as of July, 1982

"AsBuilt" April, 1984

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

Juneau, Harris Harbor Alaska

EXISTING FACILITIES / DREDGING LIMITS

SCALE As Noted	SURVEYED _____	APPROVED _____
DESIGNED RAM	DRAWN DP	Robert P. Beck
CHECKED _____	DATE 11-82	James A. Lowell
PROJECT NUMBER D19172	SHEET 2 OF 14	

1-28-83

HORIZONTAL CONTROL

Basis of Bearing, "Bar" to "Cut", N 33° 53' 3" W (State Plane Bearing), 585.72'

○ "Bar"
Rebar with "N" stamped on top

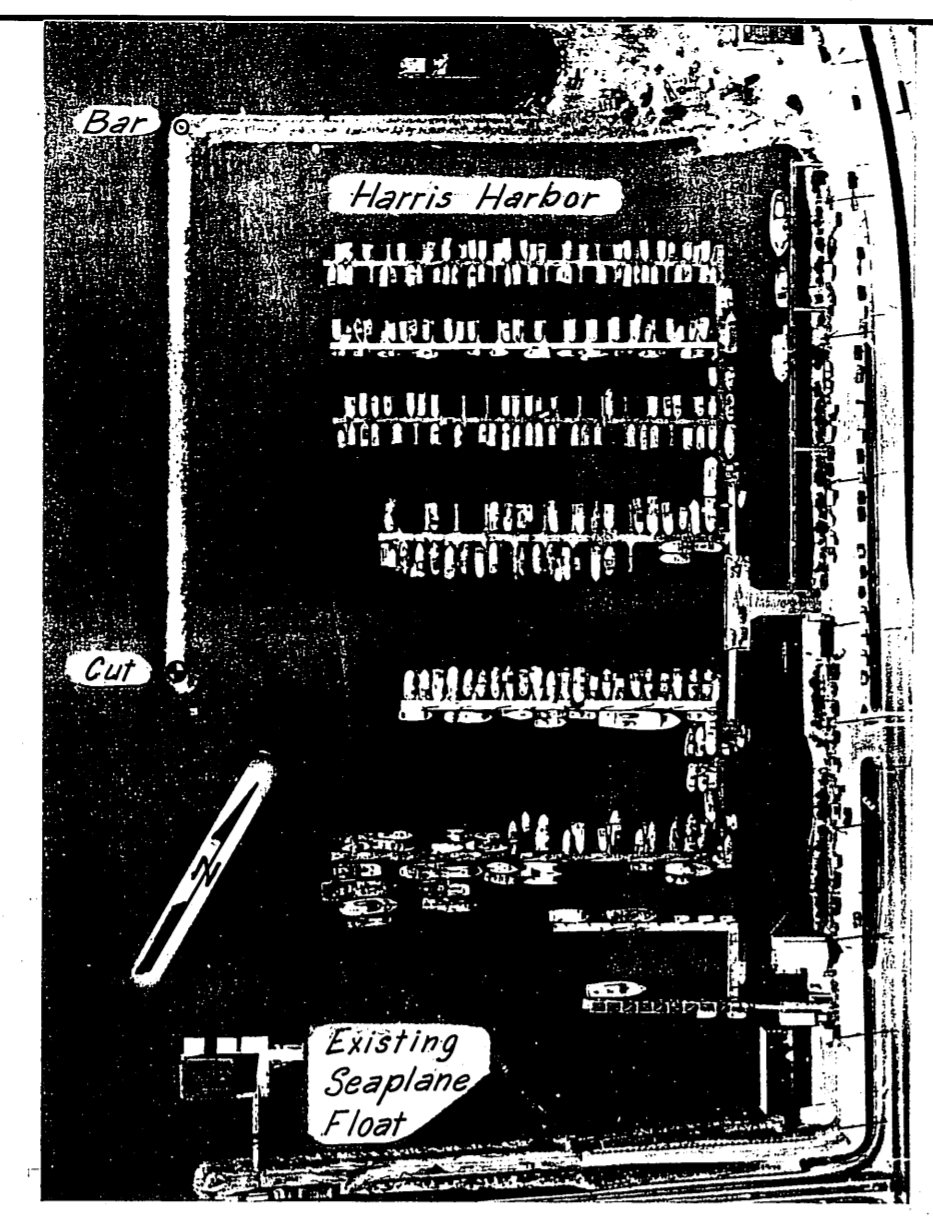
● "Cut"
Alaska Dept. of Highways Brass Monument - 1975

VERTICAL CONTROL

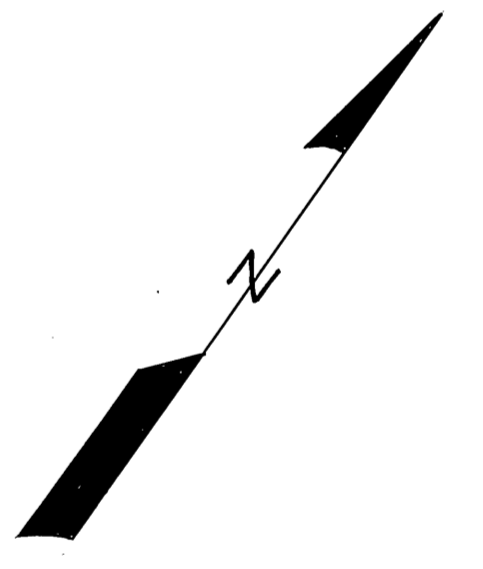
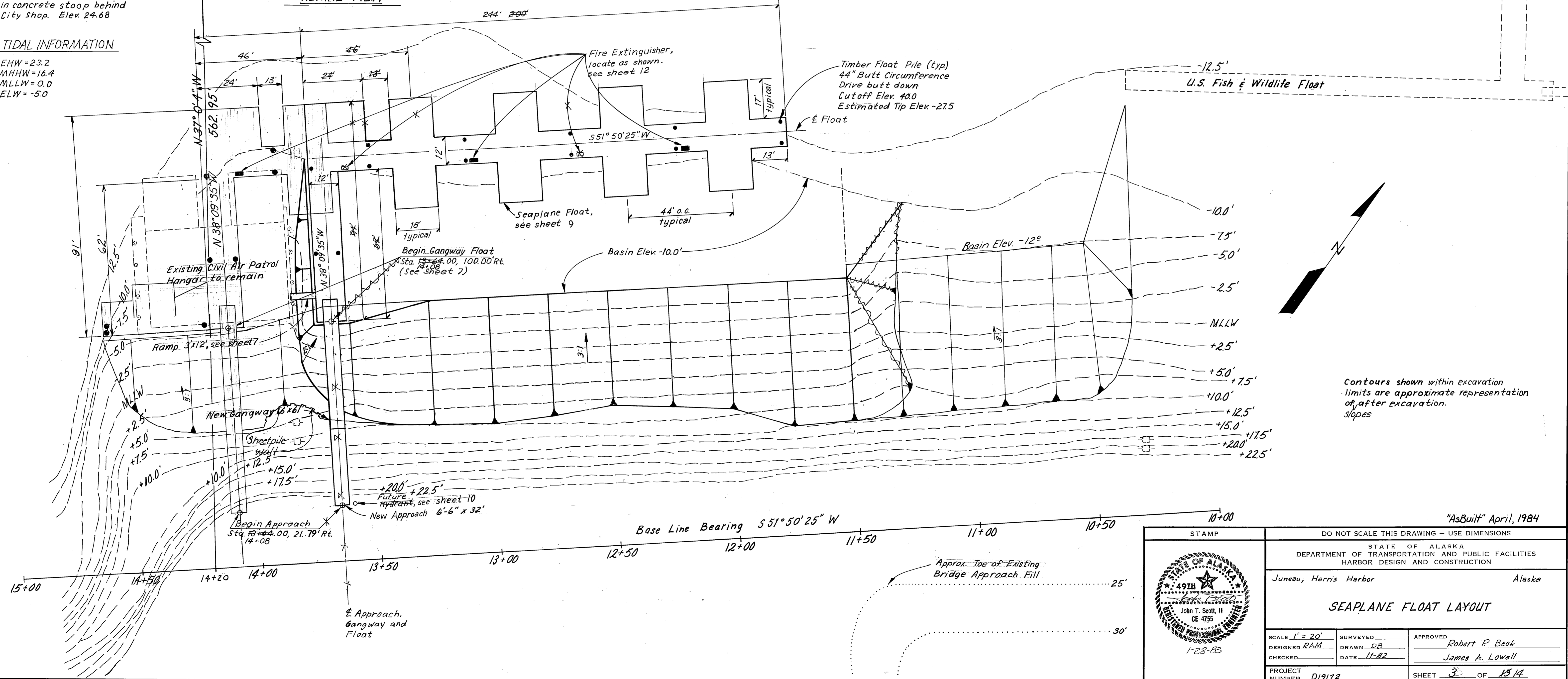
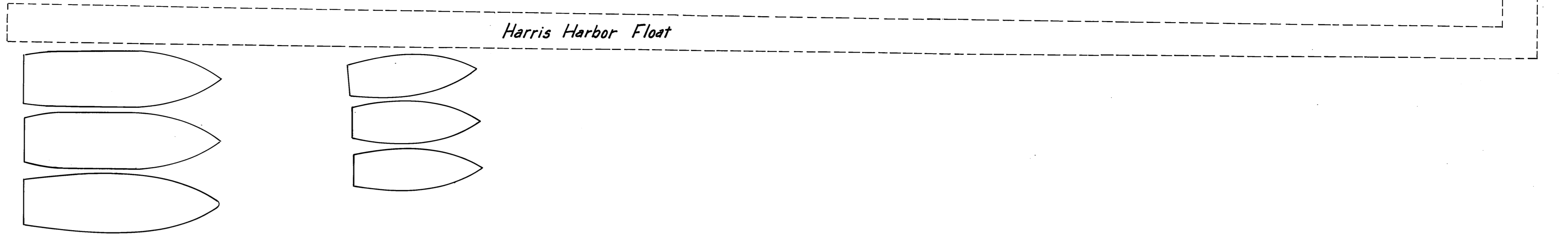
Alaska Dept. of Highways brass monument grouted in concrete stoop behind City Shop. Elev. 24.68

TIDAL INFORMATION

EHW = 23.2
MHHW = 16.4
MLLW = 0.0
ELW = -5.0

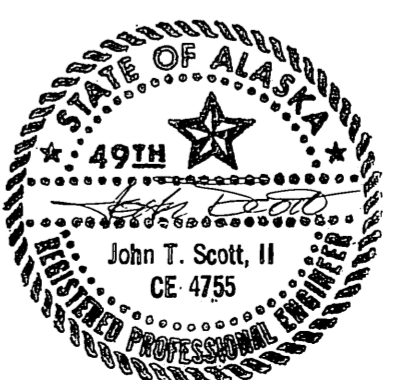


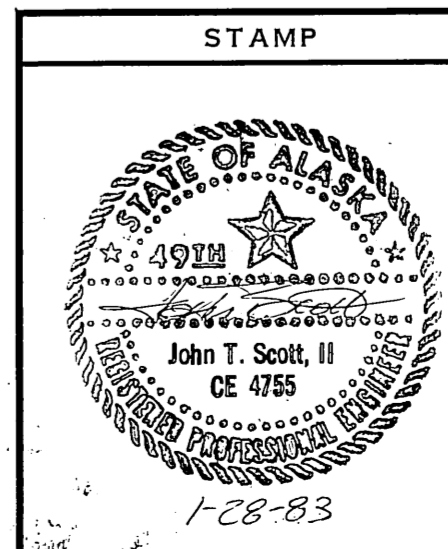
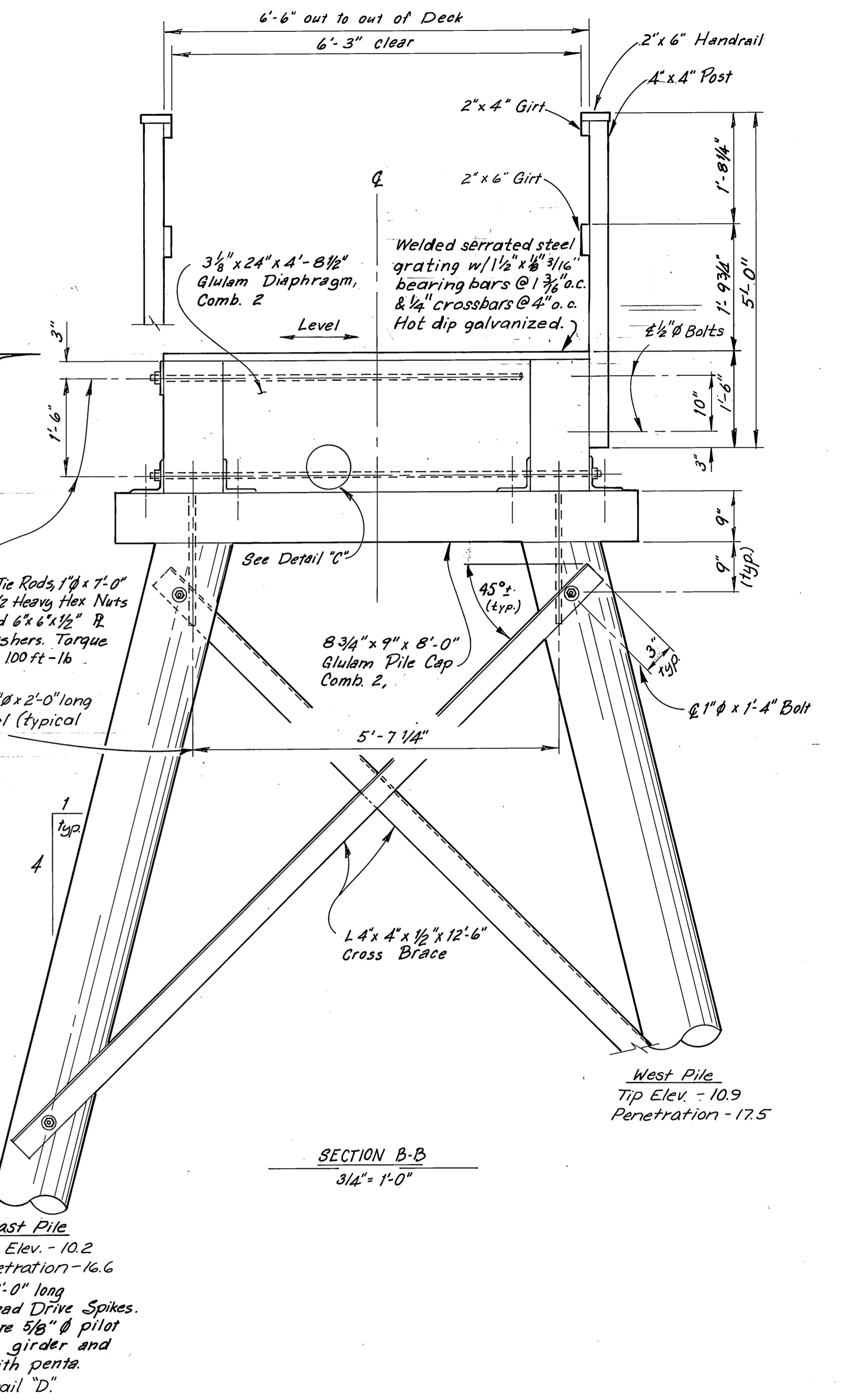
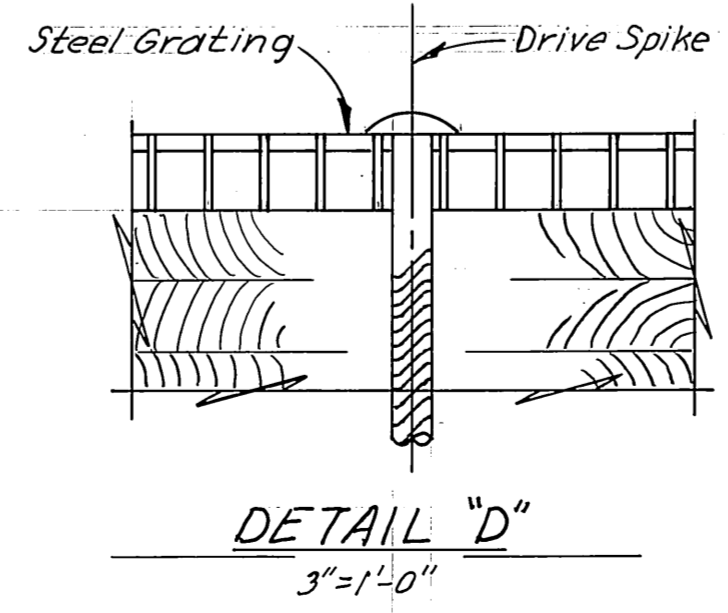
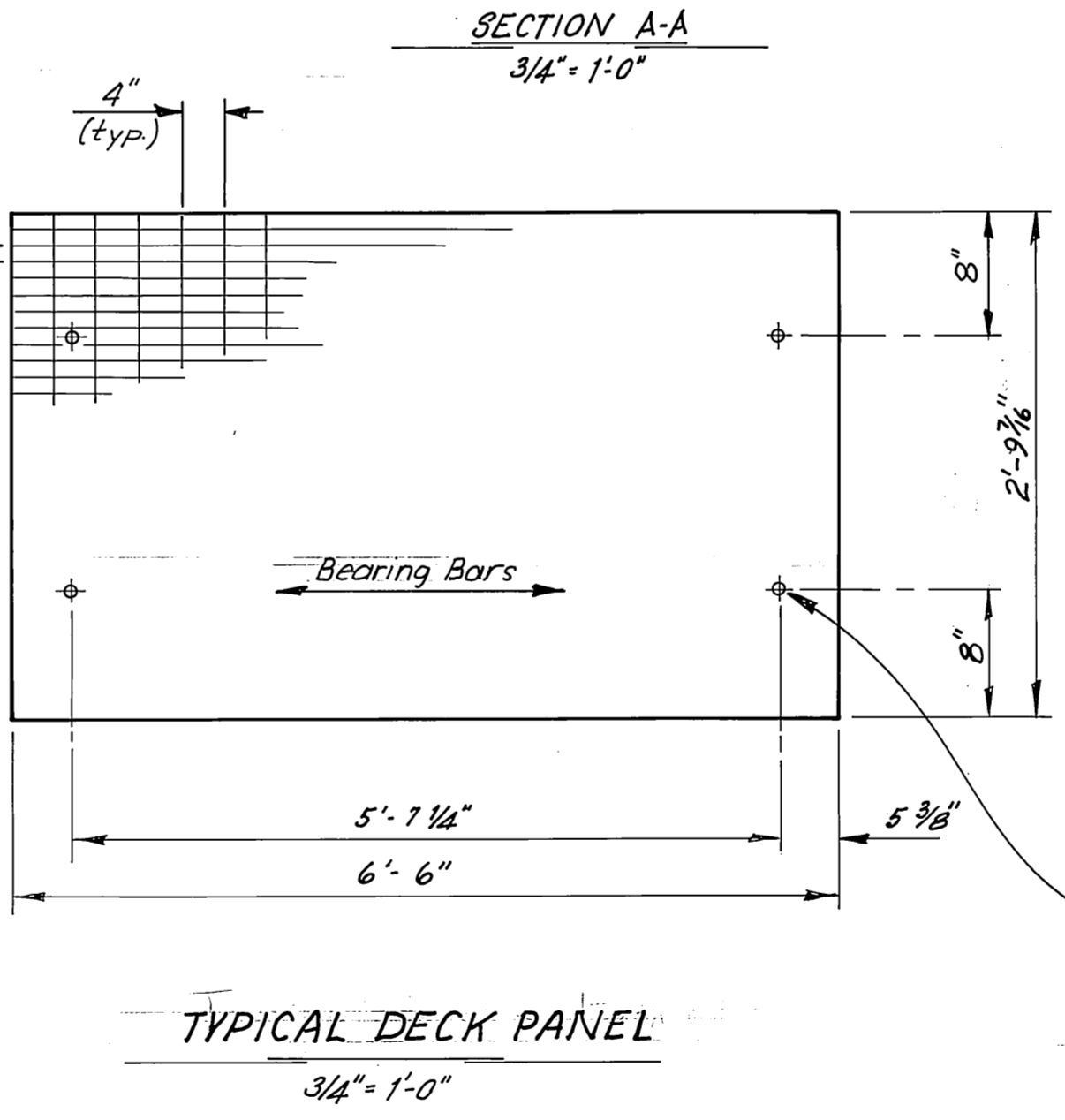
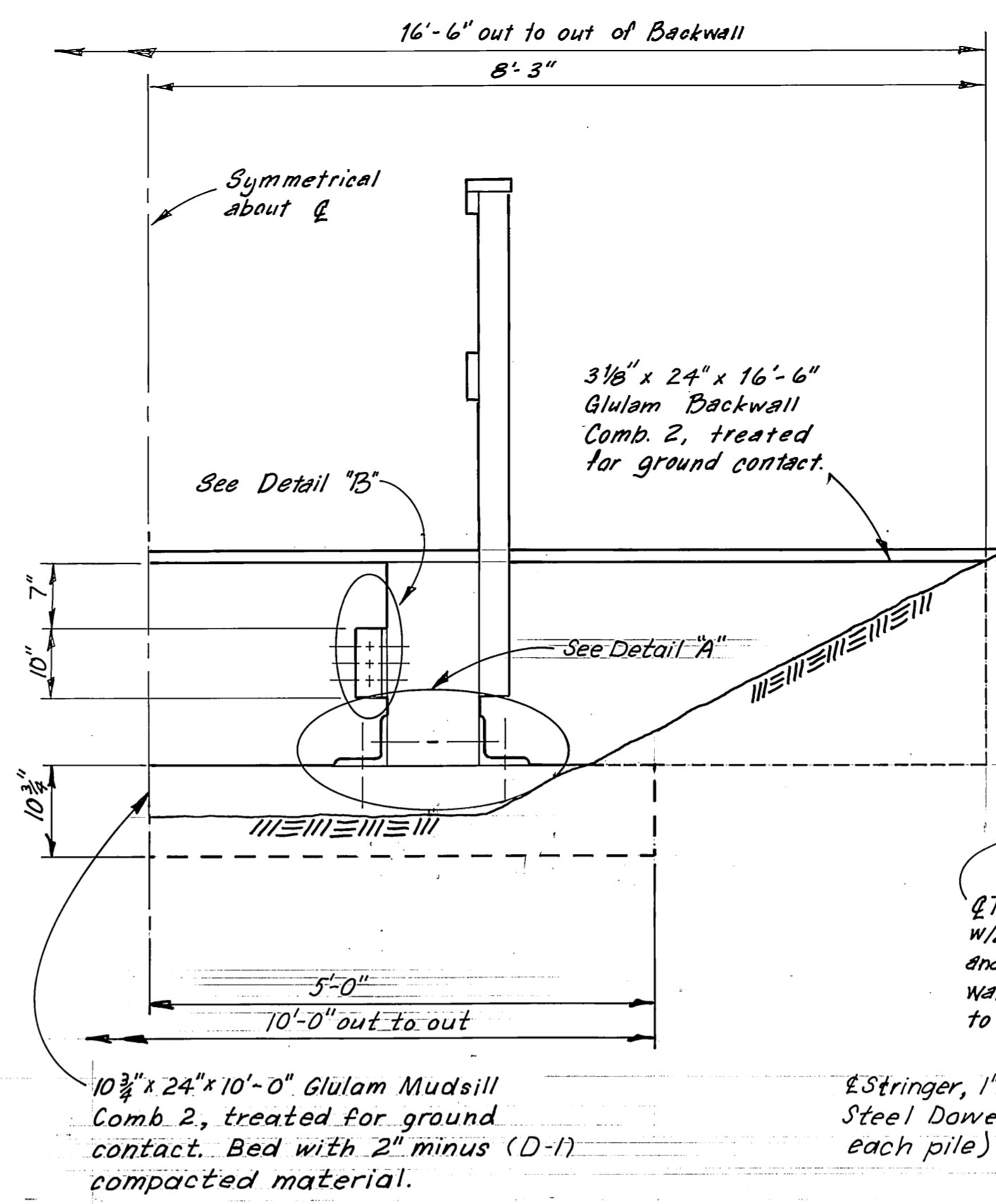
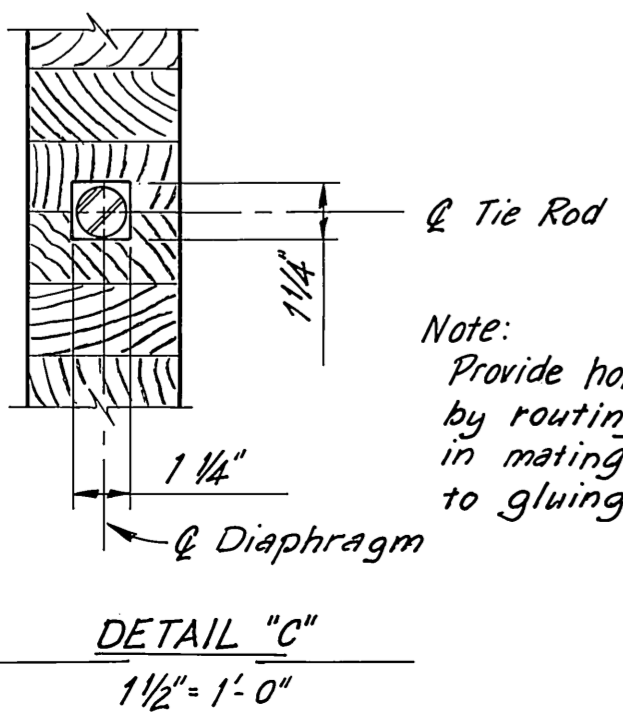
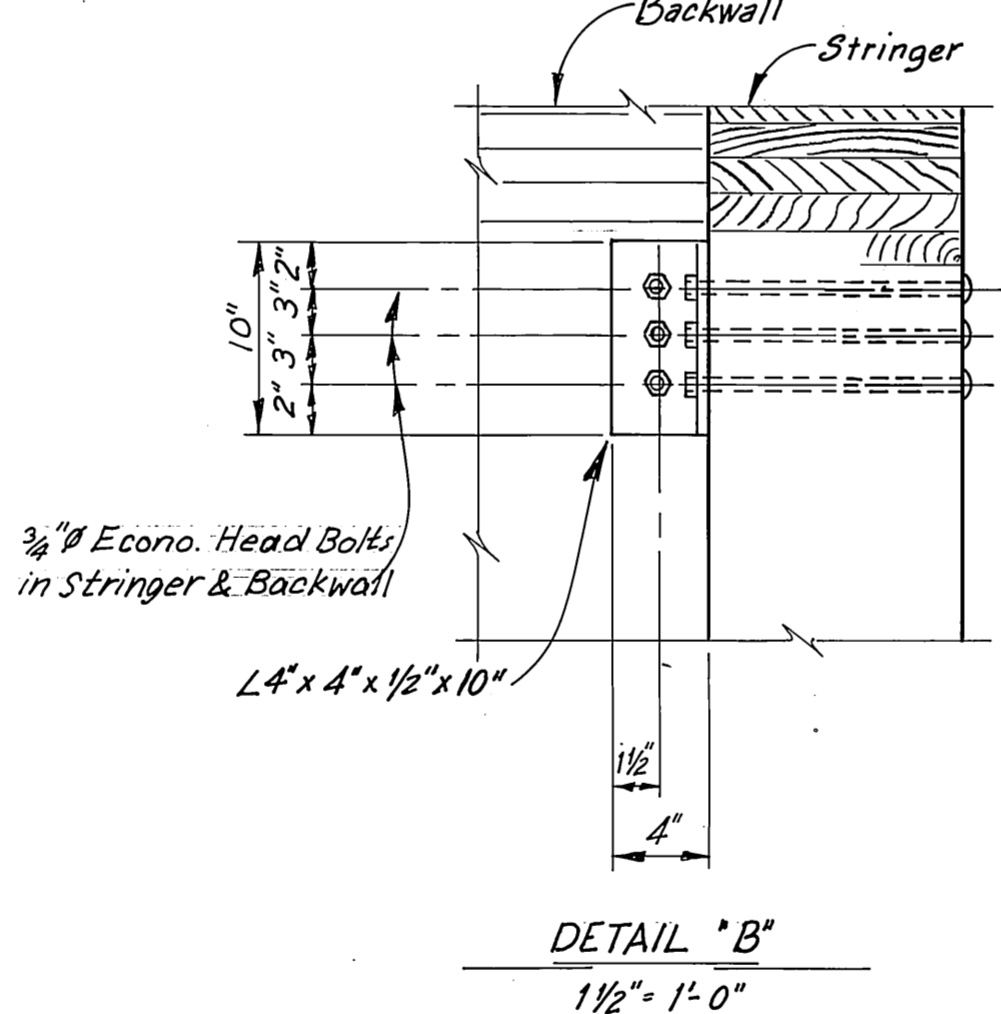
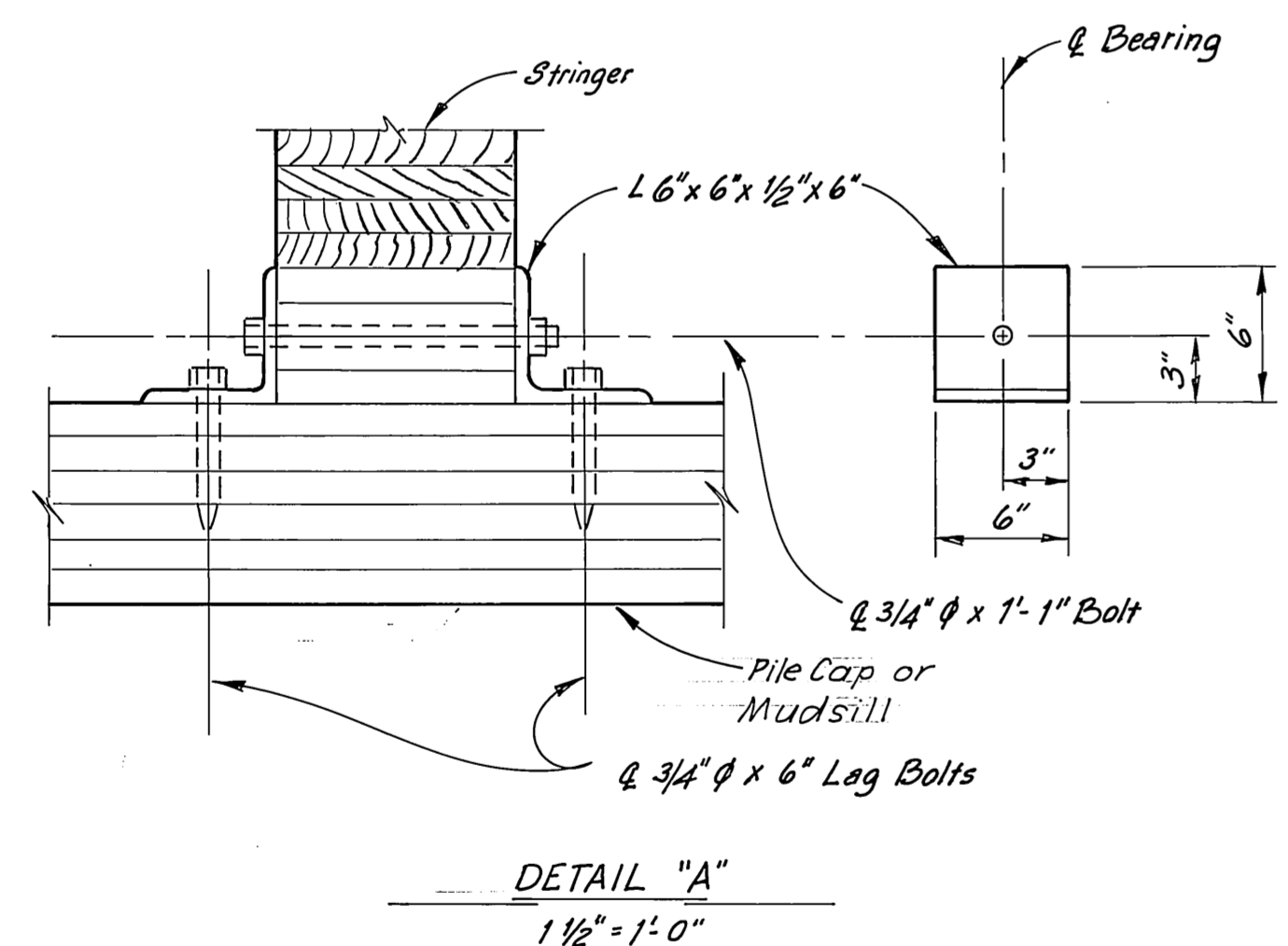
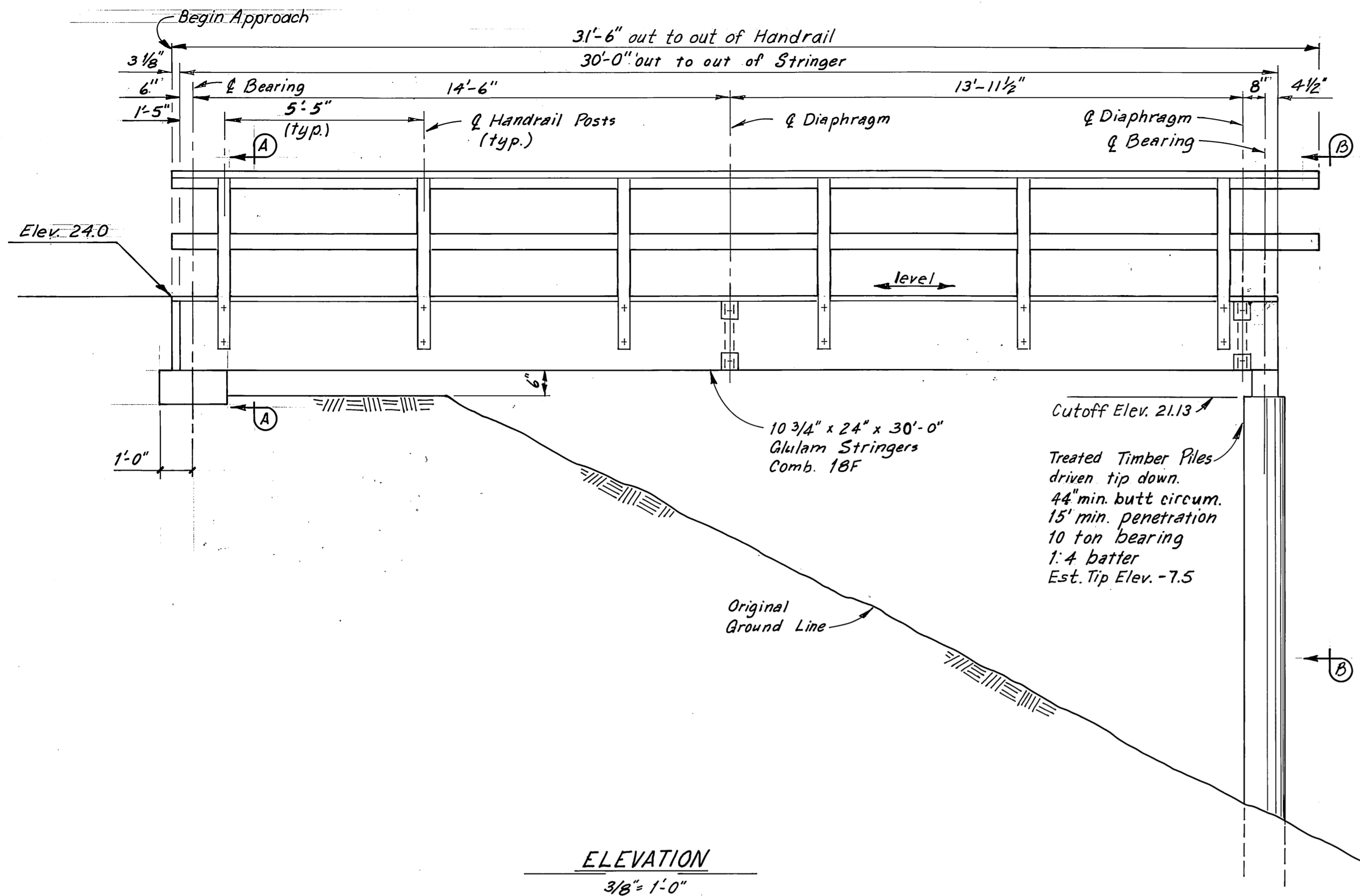
AERIAL VIEW



Contours shown within excavation limits are approximate representation of, after excavation. Slopes

"AsBuilt" April, 1984

 <p>1-28-83</p>		DO NOT SCALE THIS DRAWING - USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Juneau, Harris Harbor Alaska	
SEAPLANE FLOAT LAYOUT			
SCALE 1" = 20' DESIGNED RAM CHECKED:	SURVEYED _____ DRAWN DB DATE 11-82	APPROVED Robert P. Beck James A. Lowell	
PROJECT NUMBER D19172		SHEET 3 OF 13/14	



"As Built" April 1984

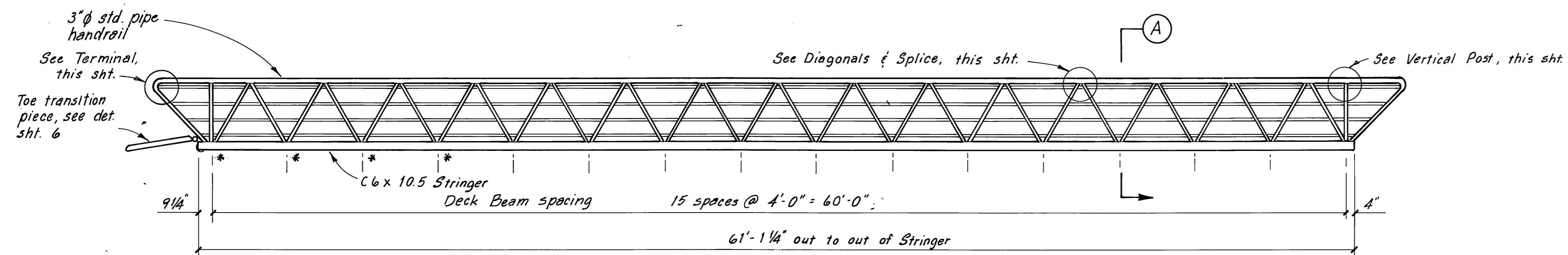
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

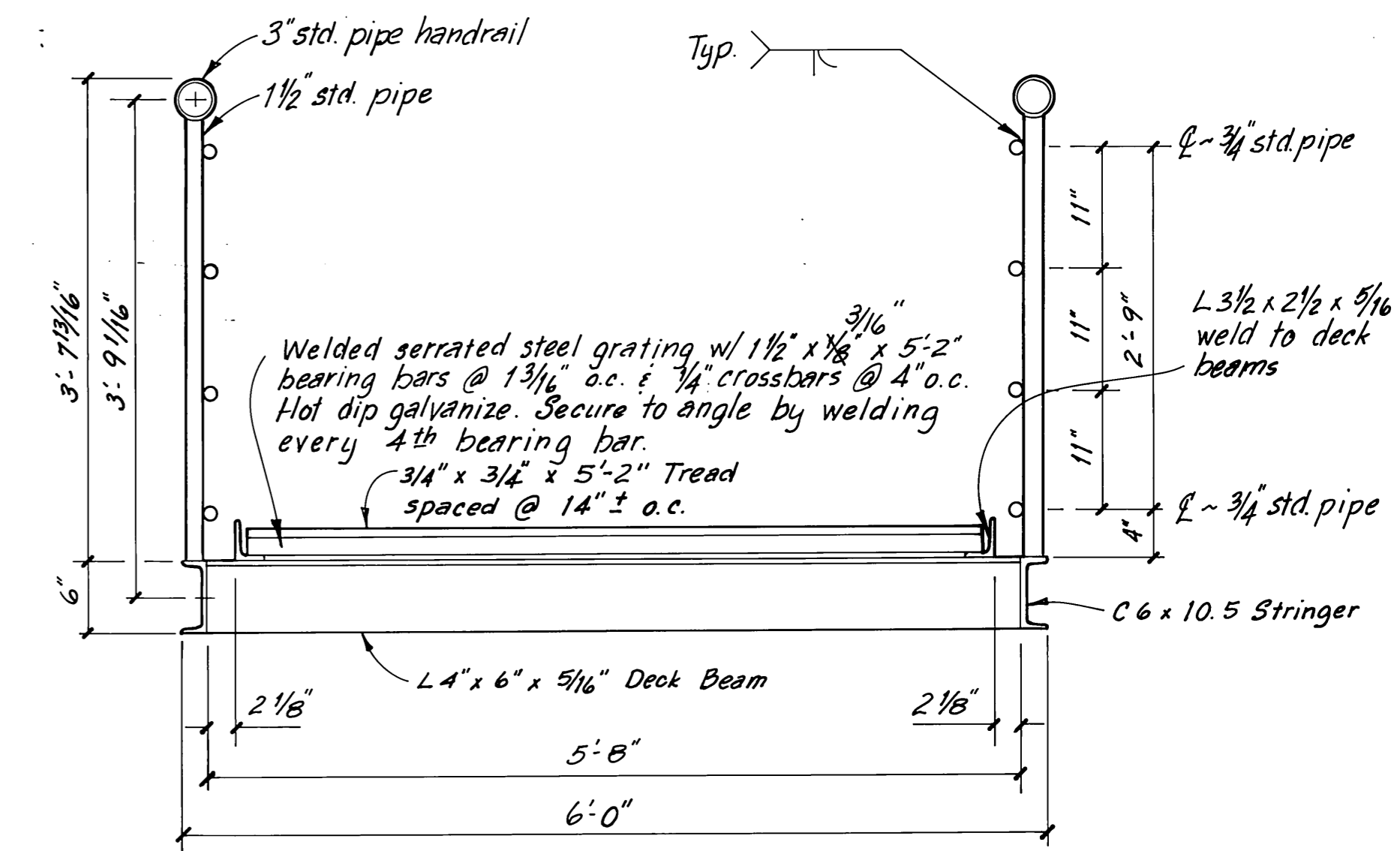
Juneau, Harris Harbor Alaska

APPROACH

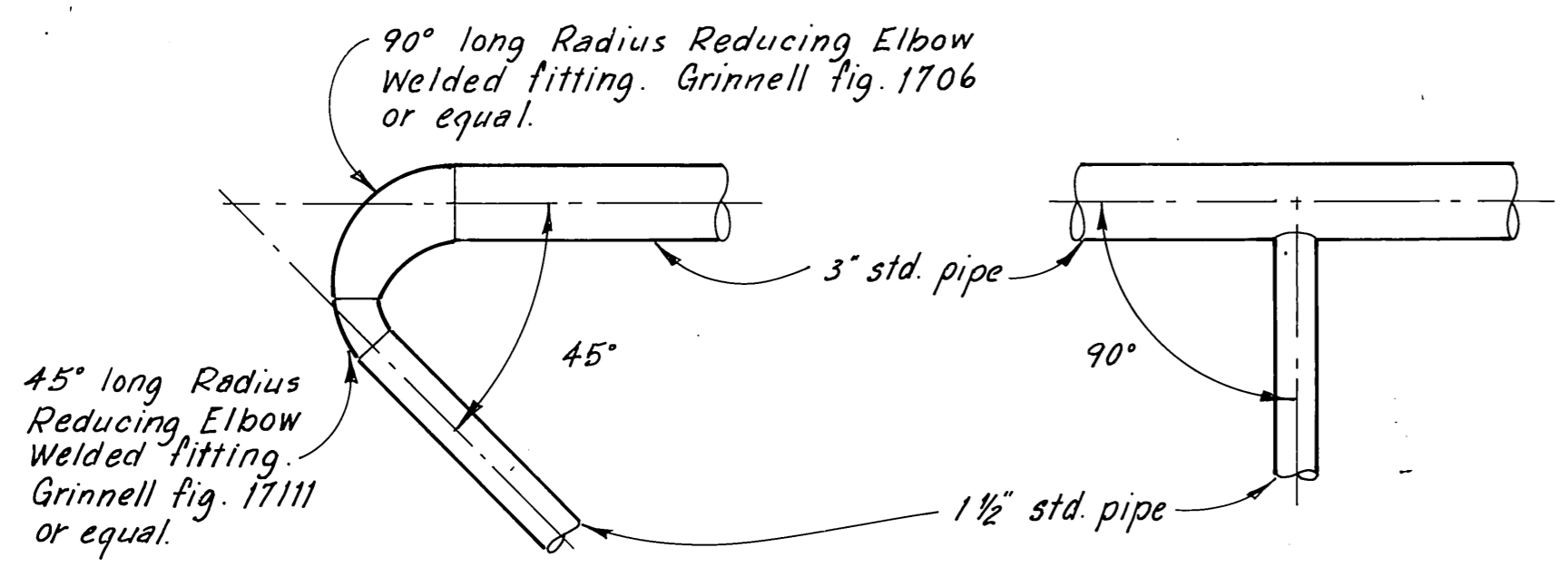
SCALE: As Noted	SURVEYED	APPROVED
DESIGNED: RAM	DRAWN: LJB/DB	Robert P. Beck
CHECKED:	DATE: 12-82	James A. Lowell
PROJECT NUMBER: D19172		SHEET 4 OF 1314



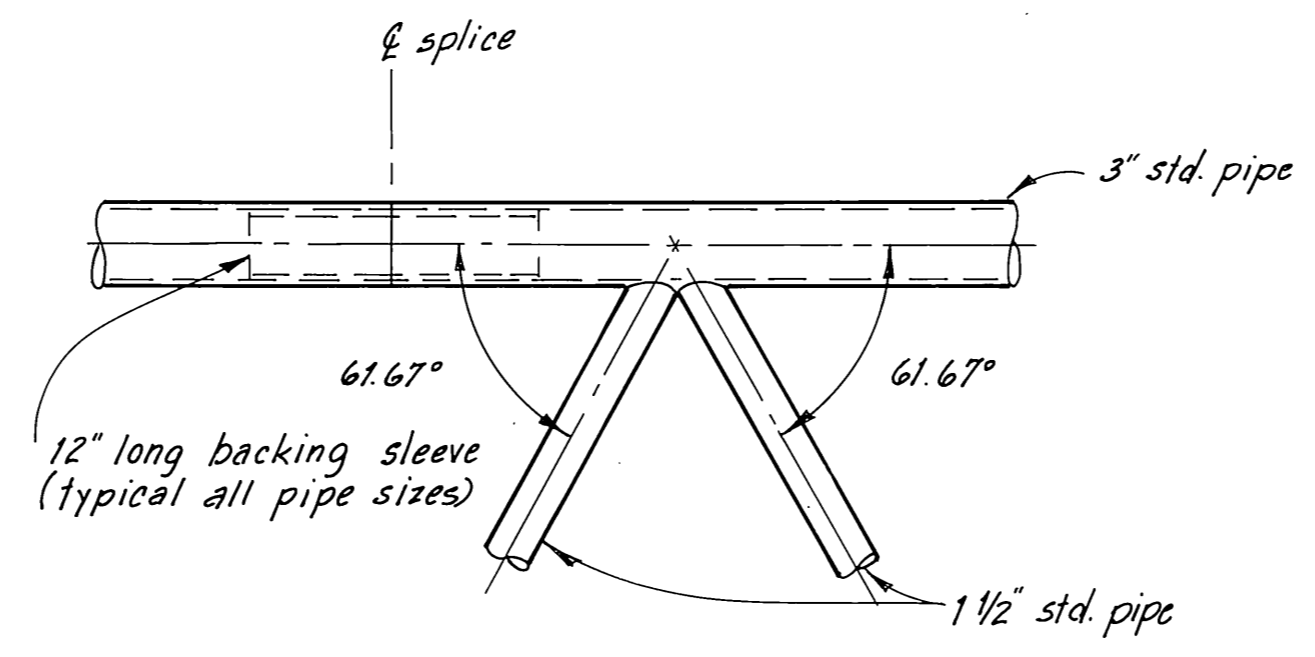
GANGWAY ELEVATION
1/4" = 1'-0"



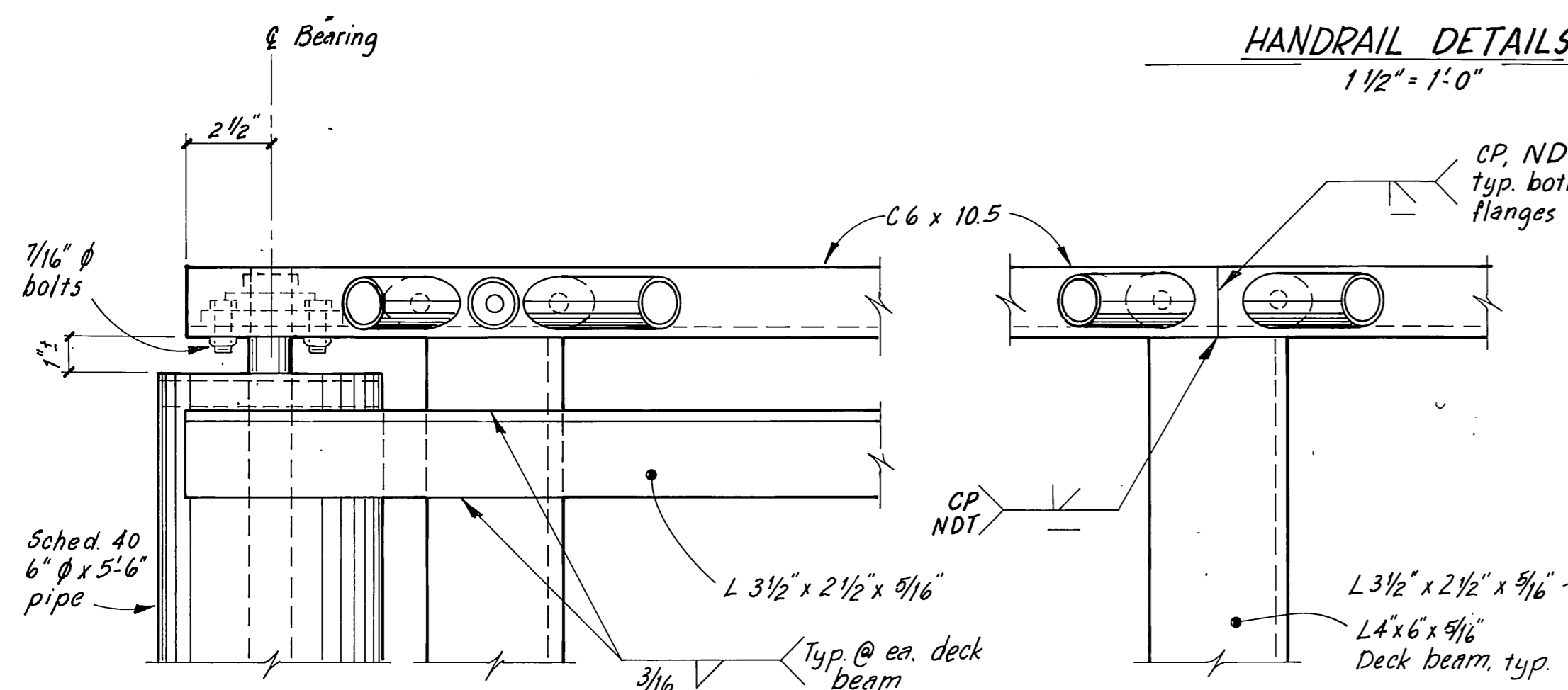
SECTION A
1" = 1'-0"



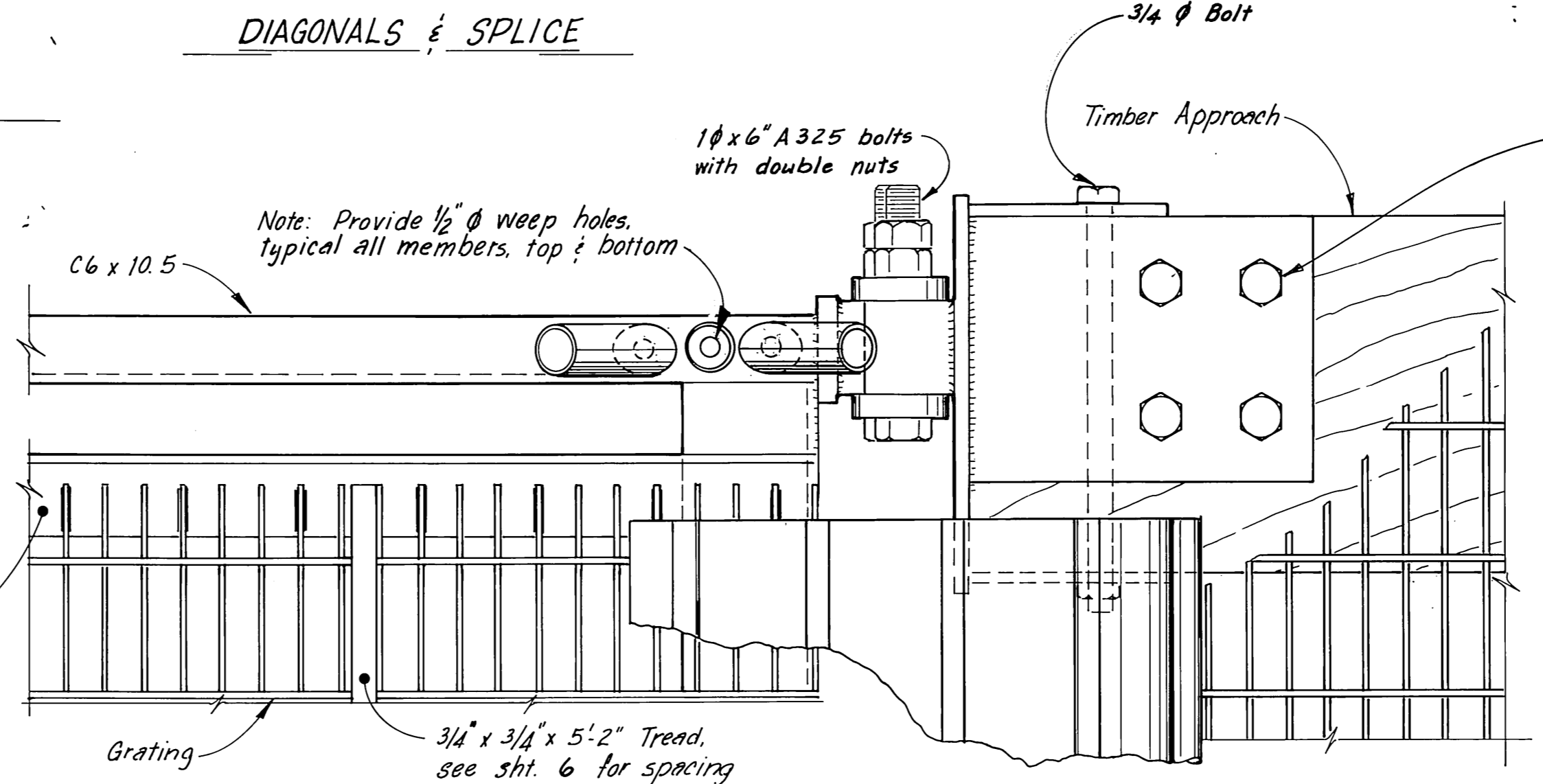
TERMINAL
VERTICAL POST



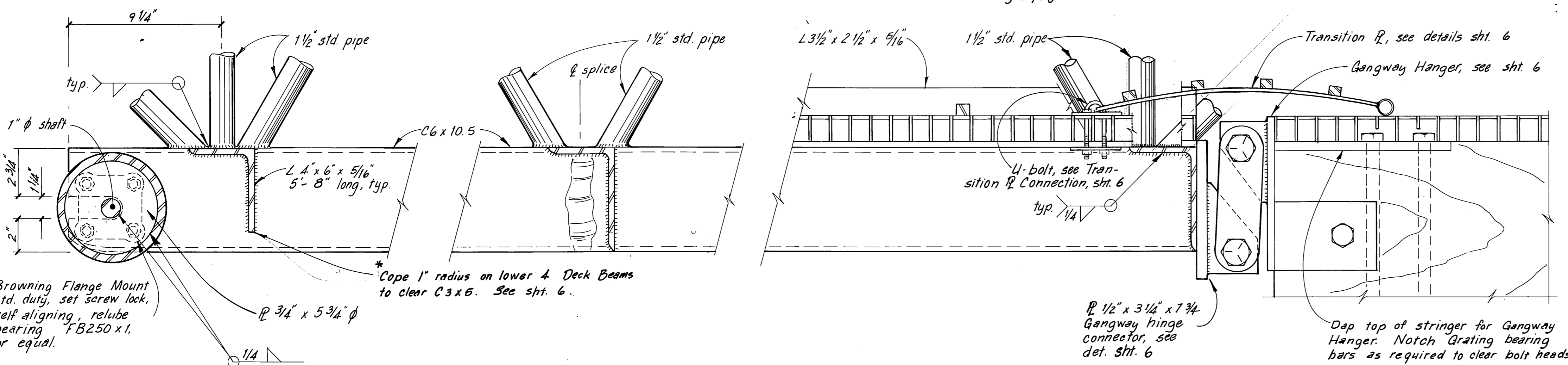
DIAGONALS & SPLICE



GANGWAY TOE
3" = 1'-0"
STRINGER SPLICE
3" = 1'-0"



GANGWAY HEAD DETAILS
3" = 1'-0"



SECTIONAL ELEVATIONS
3" = 1'-0"

- NOTES**
1. Design live load 85 psl.
 2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500 and shall be galvanized.
 3. All shapes & plates shall conform to ASTM A-36 and shall be galvanized.
 4. Ship assembled.
 5. No stringer or pipe splices may be located in middle 3rd of gangway.
 6. See sht. 13 for El. conduit supports not shown on this sheet.

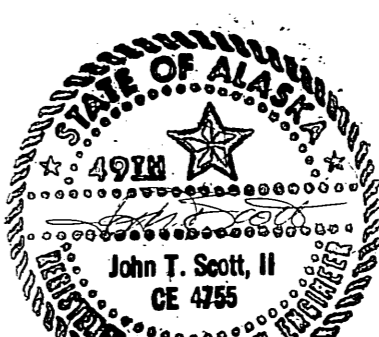
"AsBuilt" April, 1984

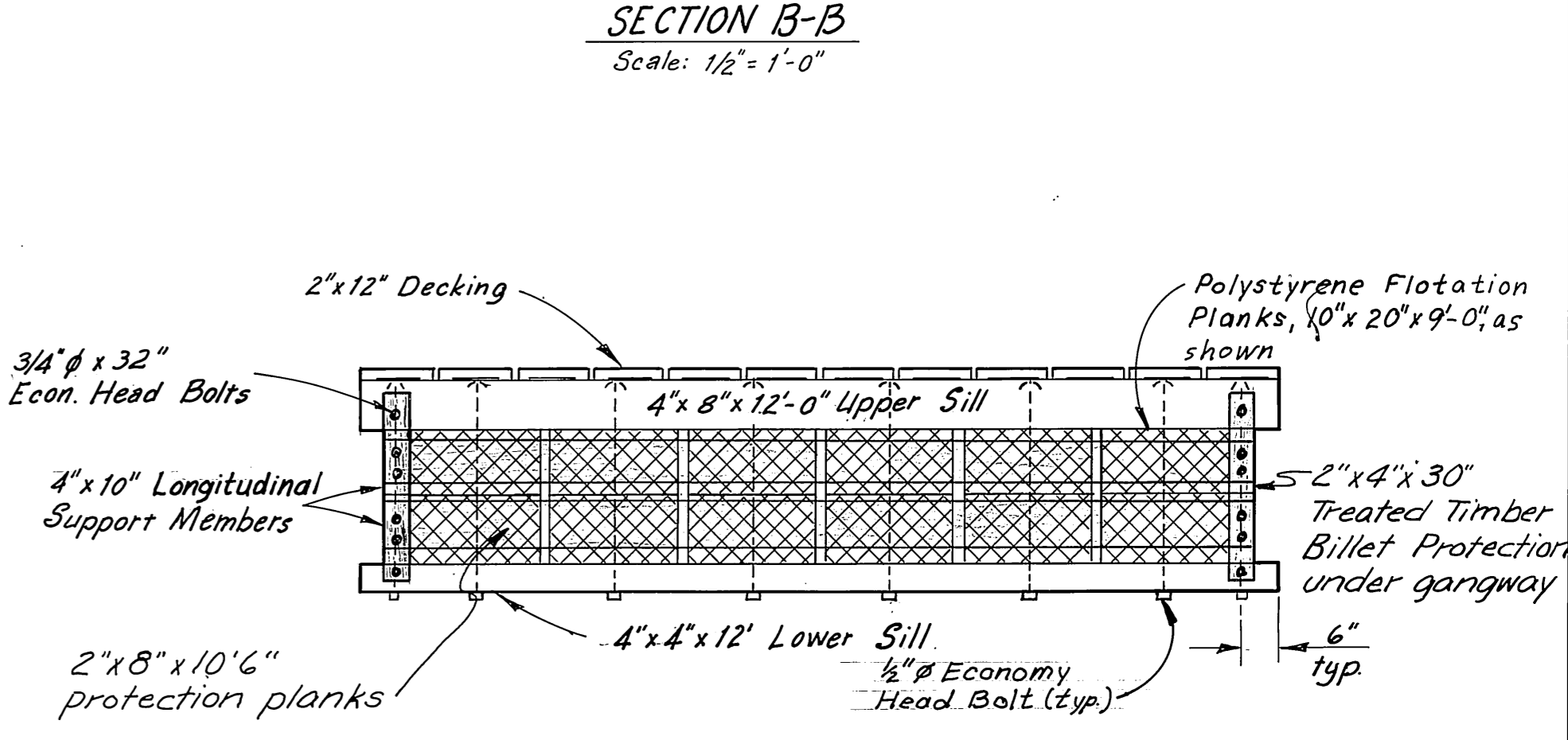
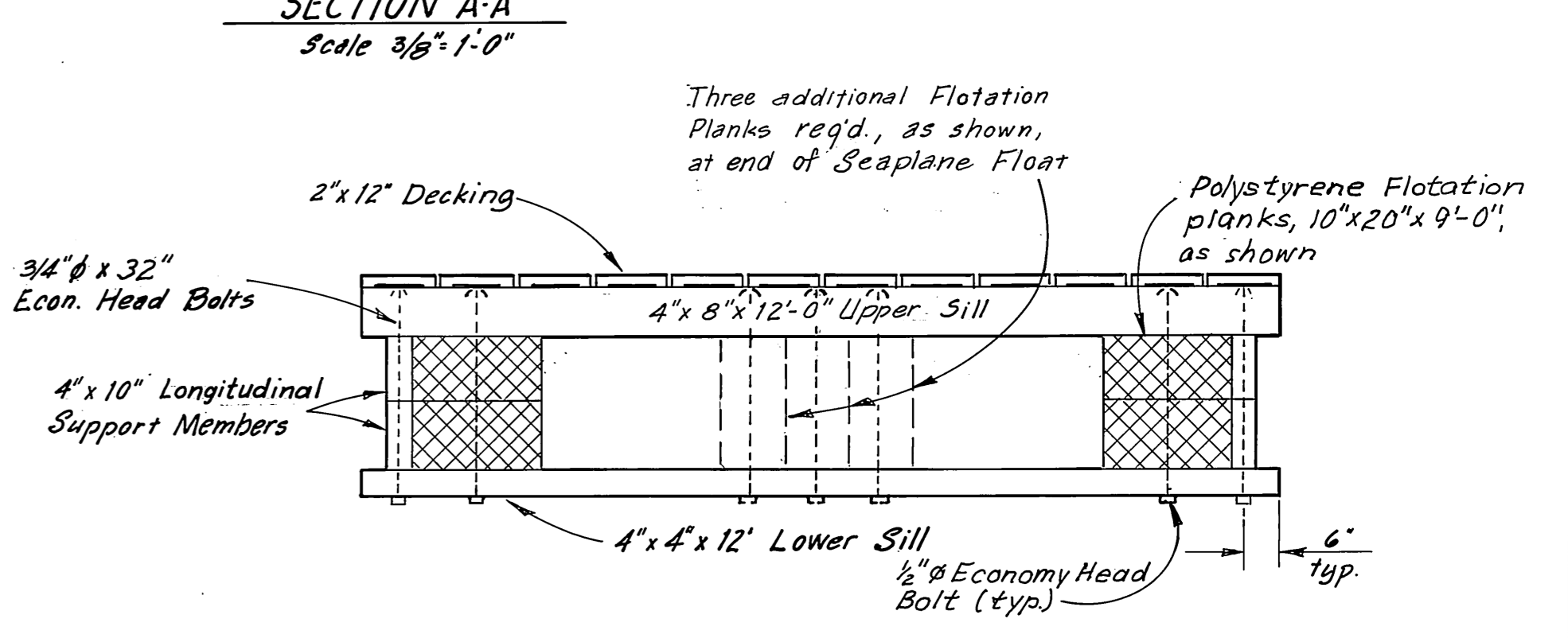
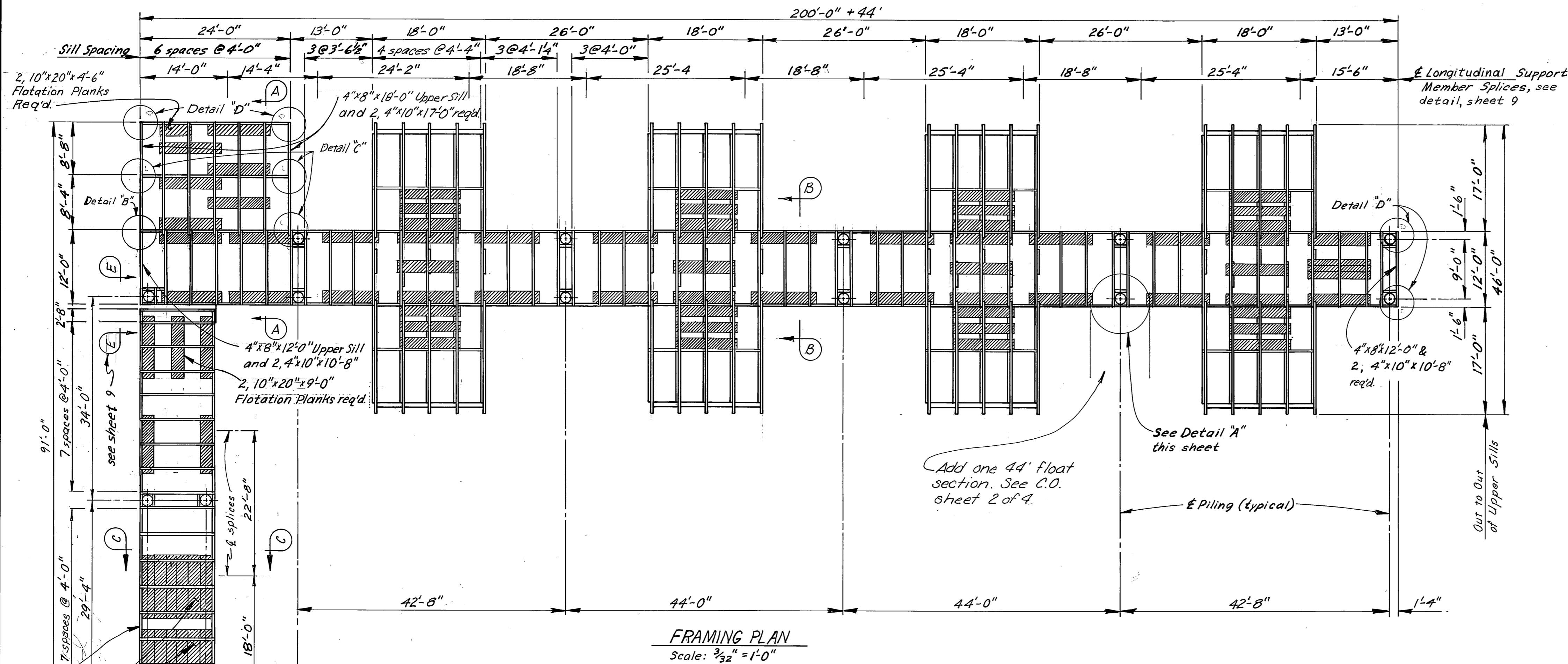
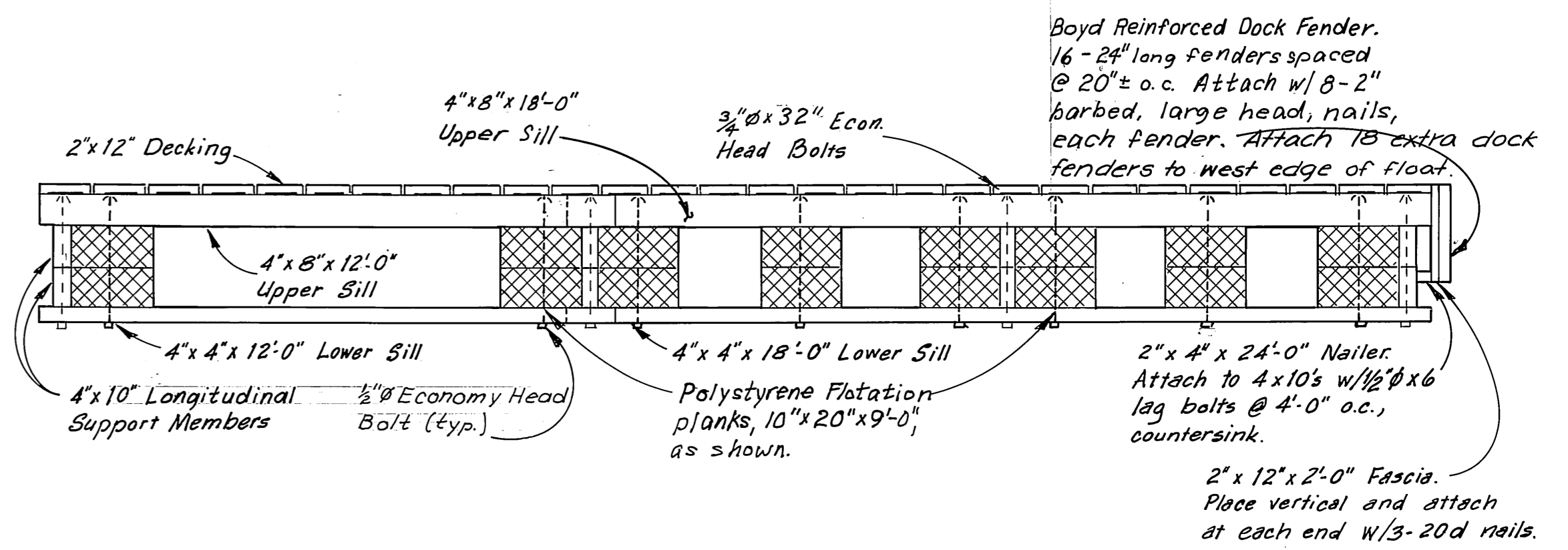
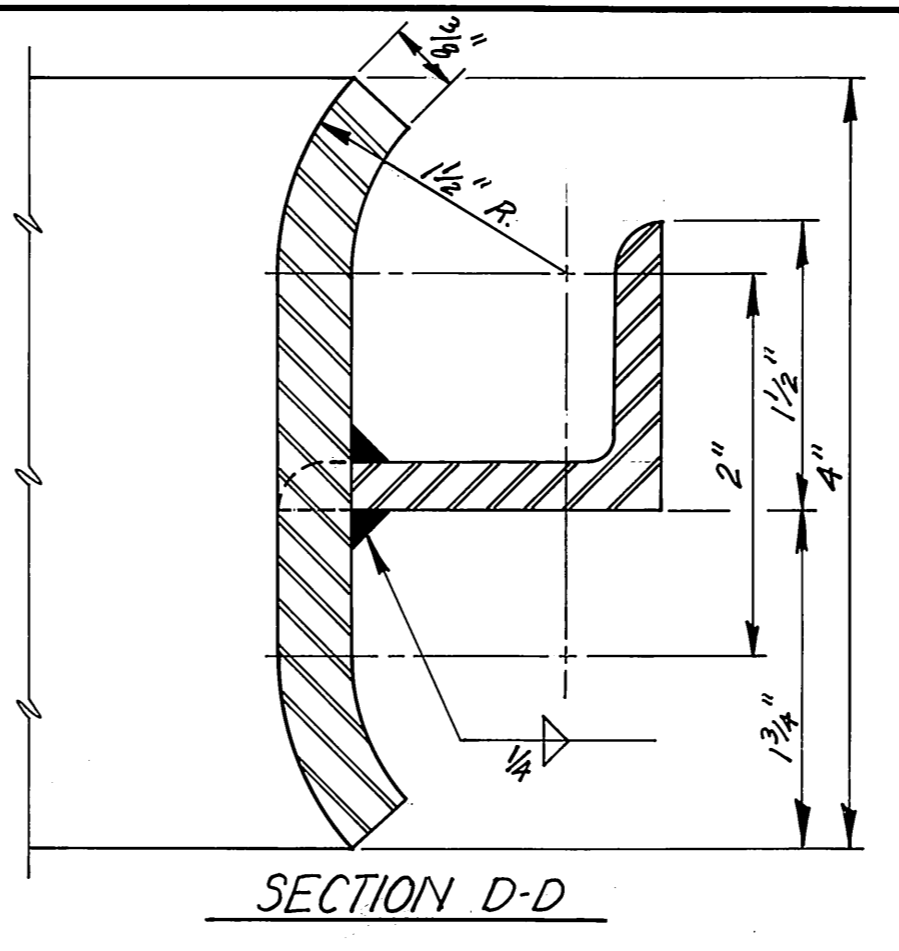
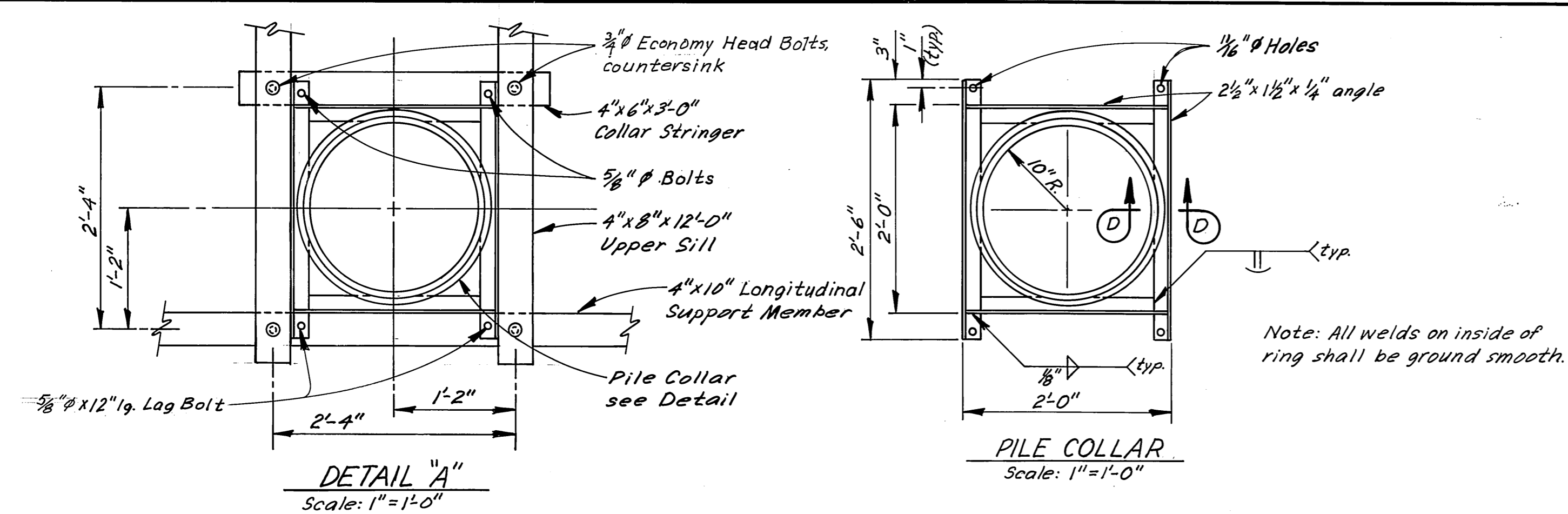
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

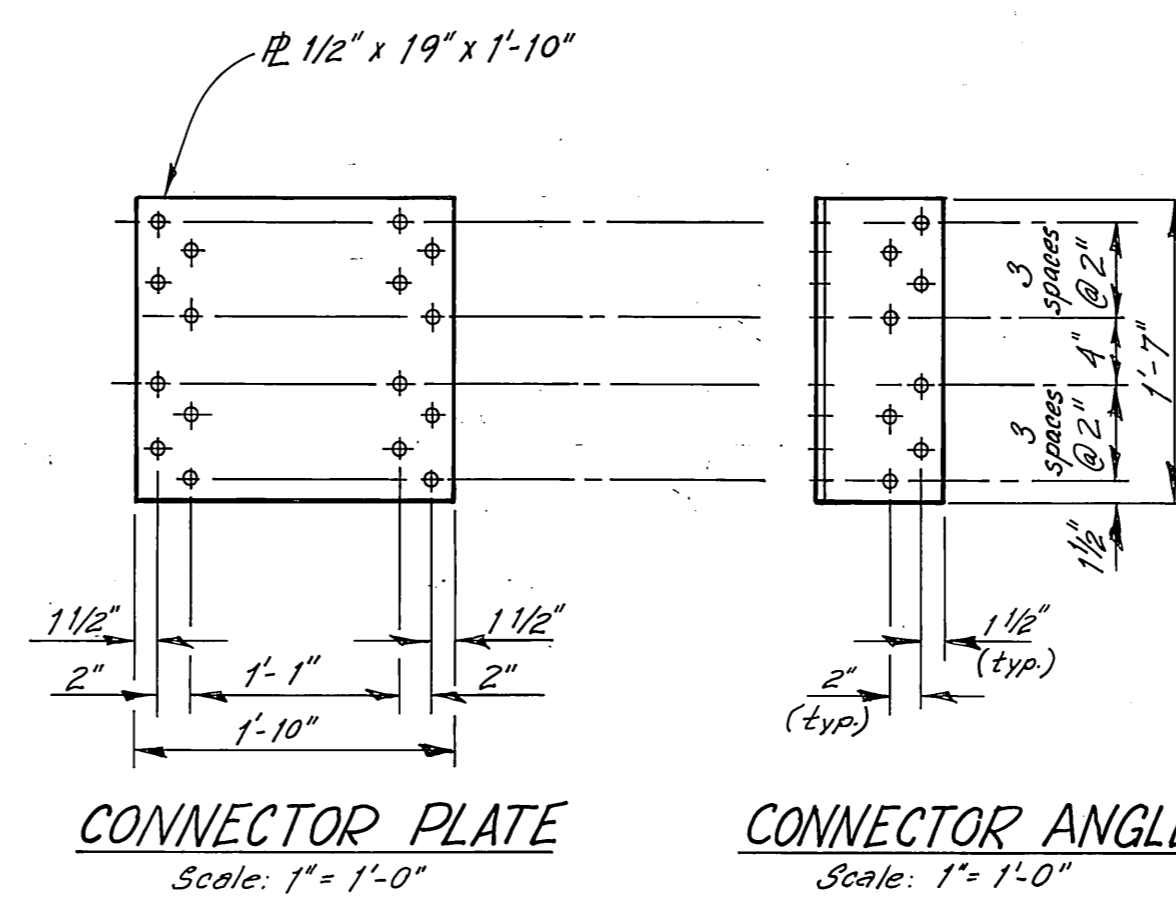
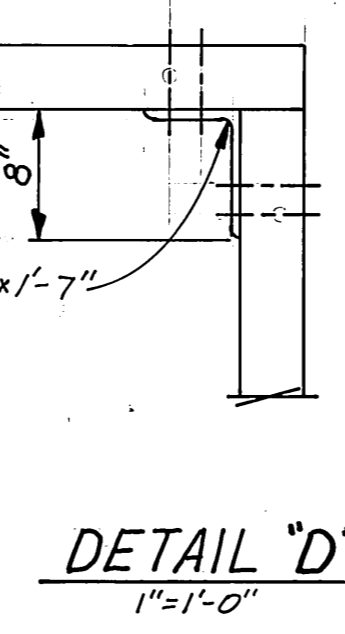
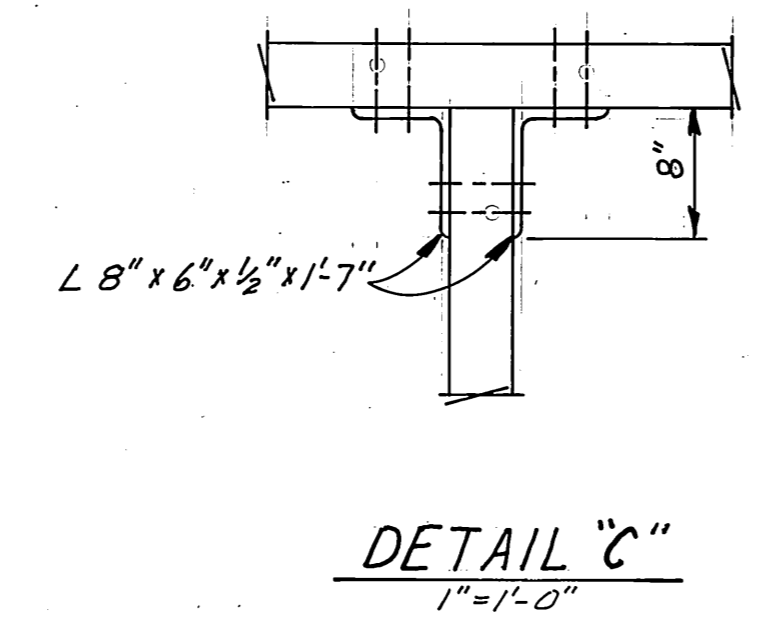
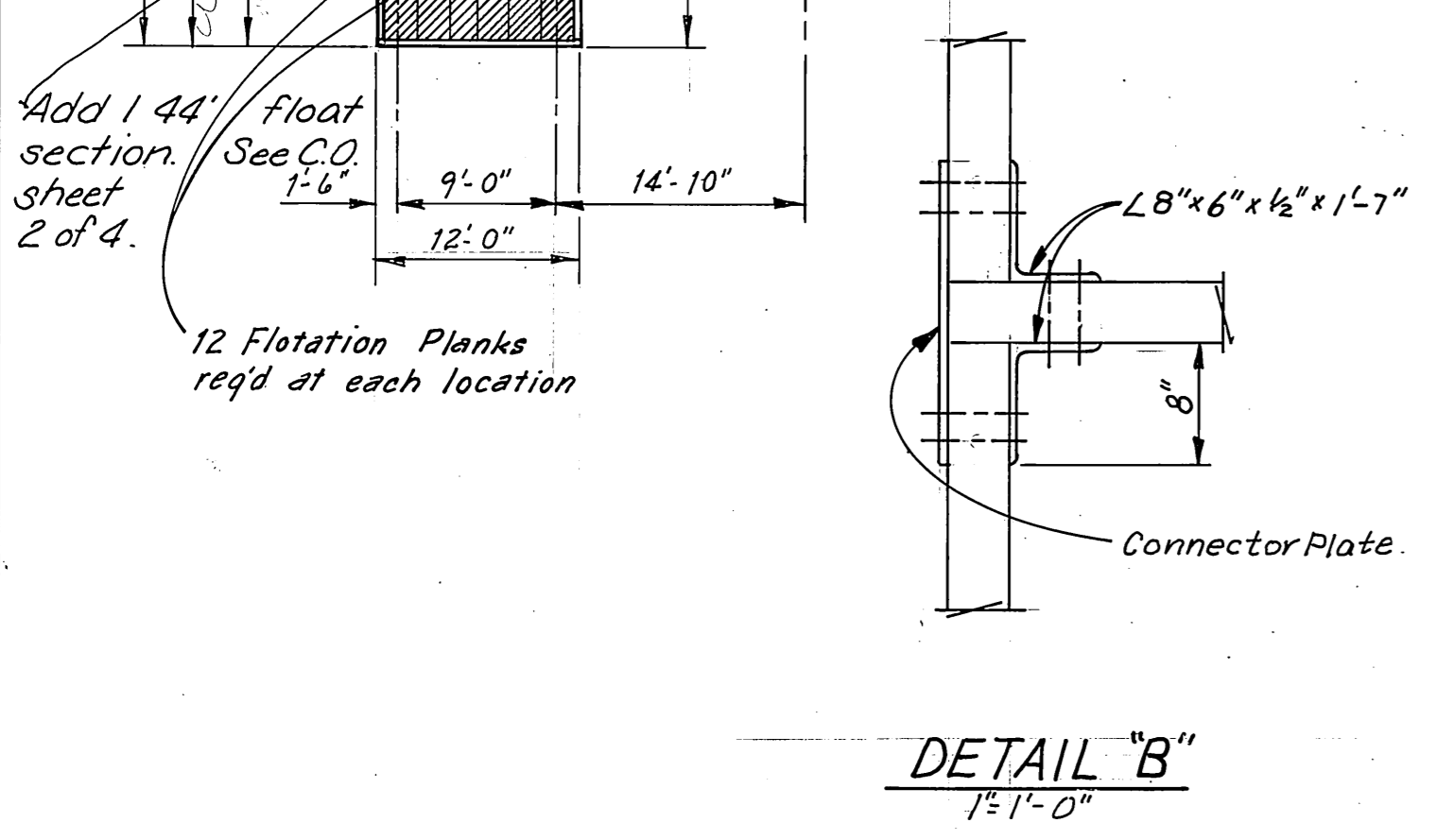
Juneau, Harris Harbor Alaska

6' x 61'-0" STEEL GANGWAY SHEET A

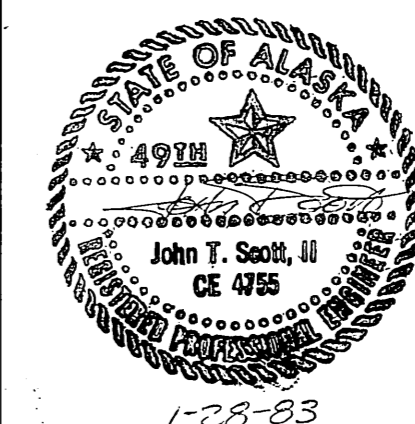
 John T. Scott, II CE 4755 1-28-83	SCALE <i>As Noted</i> DESIGNED <i>RAM/LB</i> CHECKED _____ PROJECT NUMBER <i>D19172</i>	SURVEYED _____ DRAWN <i>DB</i> DATE <i>1-83</i> APPROVED <i>Robert P. Beak</i> <i>James A. Lowell</i>	SHEET 5 OF 13/14
--	--	---	--------------------------------

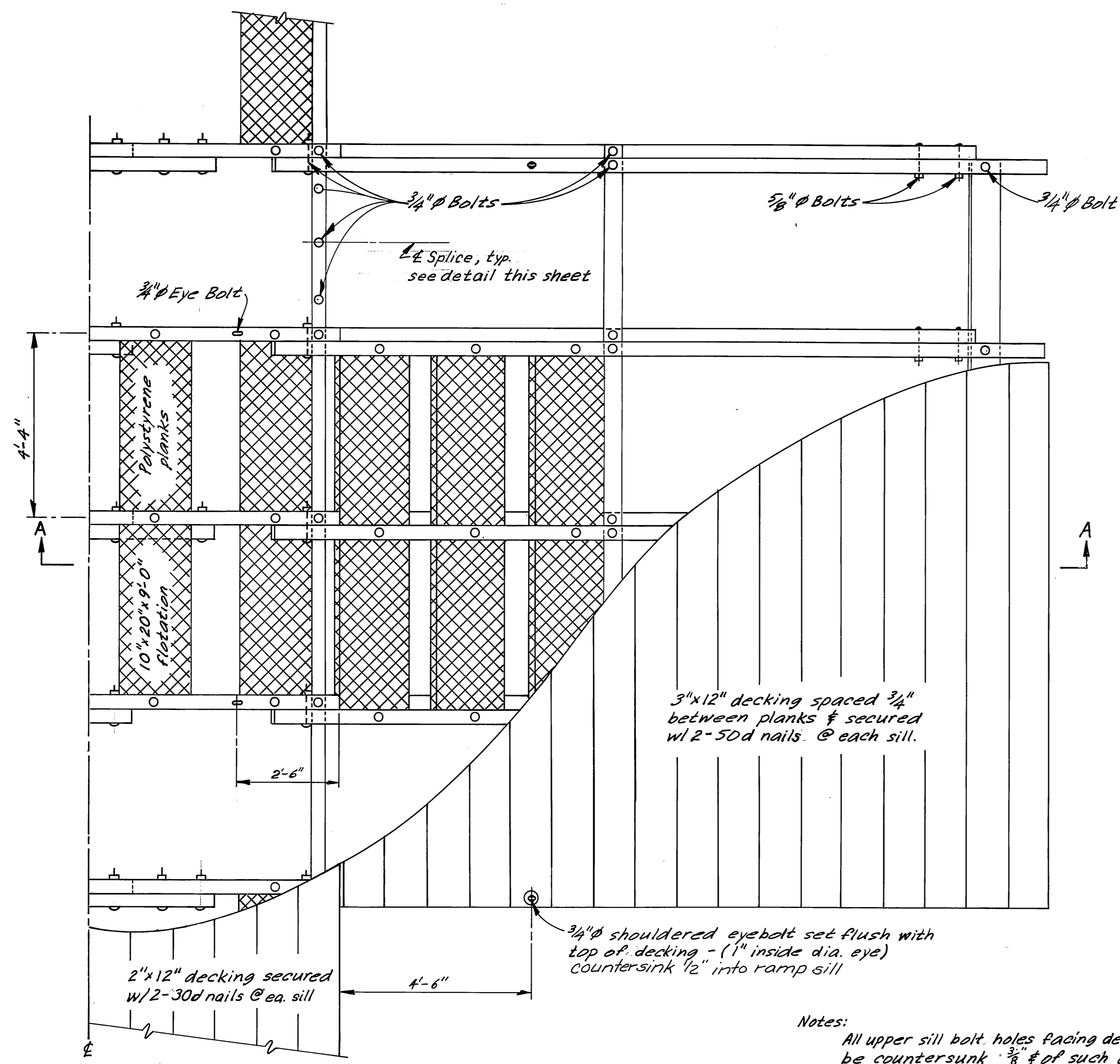


Notes: All upper sill bolt holes facing decking shall be countersunk 3/8" and of such diameter to accommodate the appropriate size economy head bolt.
3/8" drill all sill bolt holes securing flotation planks only.
Decking shall be SISE, see detail sheet 9.
Longitudinal Support Members to be full dimension 4"x10".
All other lumber shall be S4S.



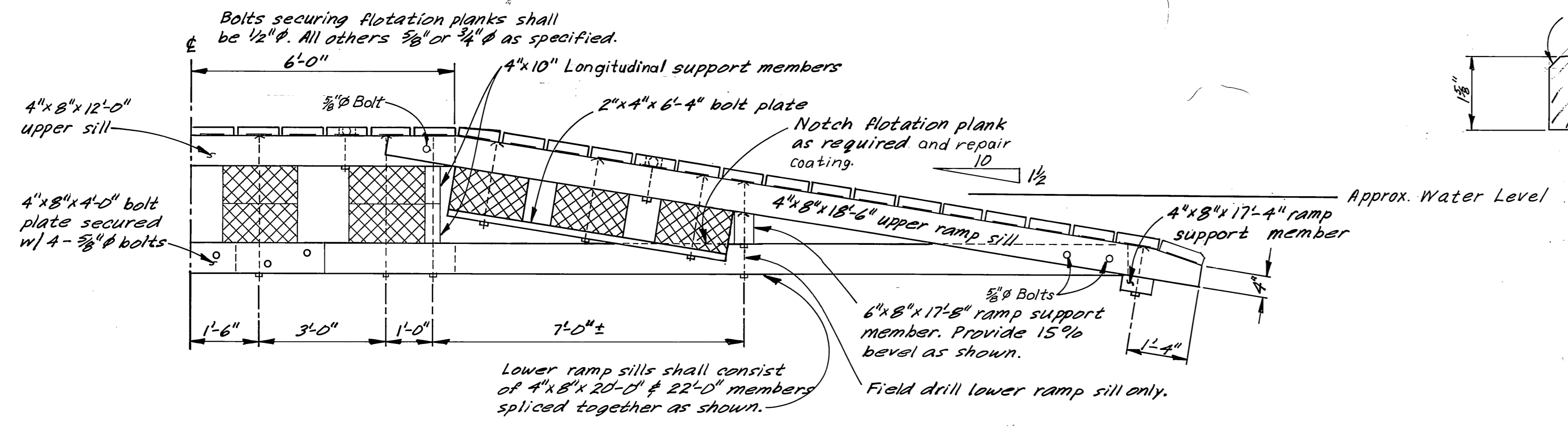
Note: Upper Sills not shown. All connections made with 3/4" diameter bolts. See Connector Angle Detail for bolt spacing.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Juneau, Harris Harbor Alaska	
FLOAT FRAMING PLAN			
SCALE: As Noted	SURVEYED: _____	APPROVED: Robert P. Beck	
DESIGNED: LVB	DRAWN: DB/LVB	James A. Lowell	
CHECKED: RAM	DATE: 12-82		
PROJECT NUMBER: D19172	SHEET: 8		OF: 1314

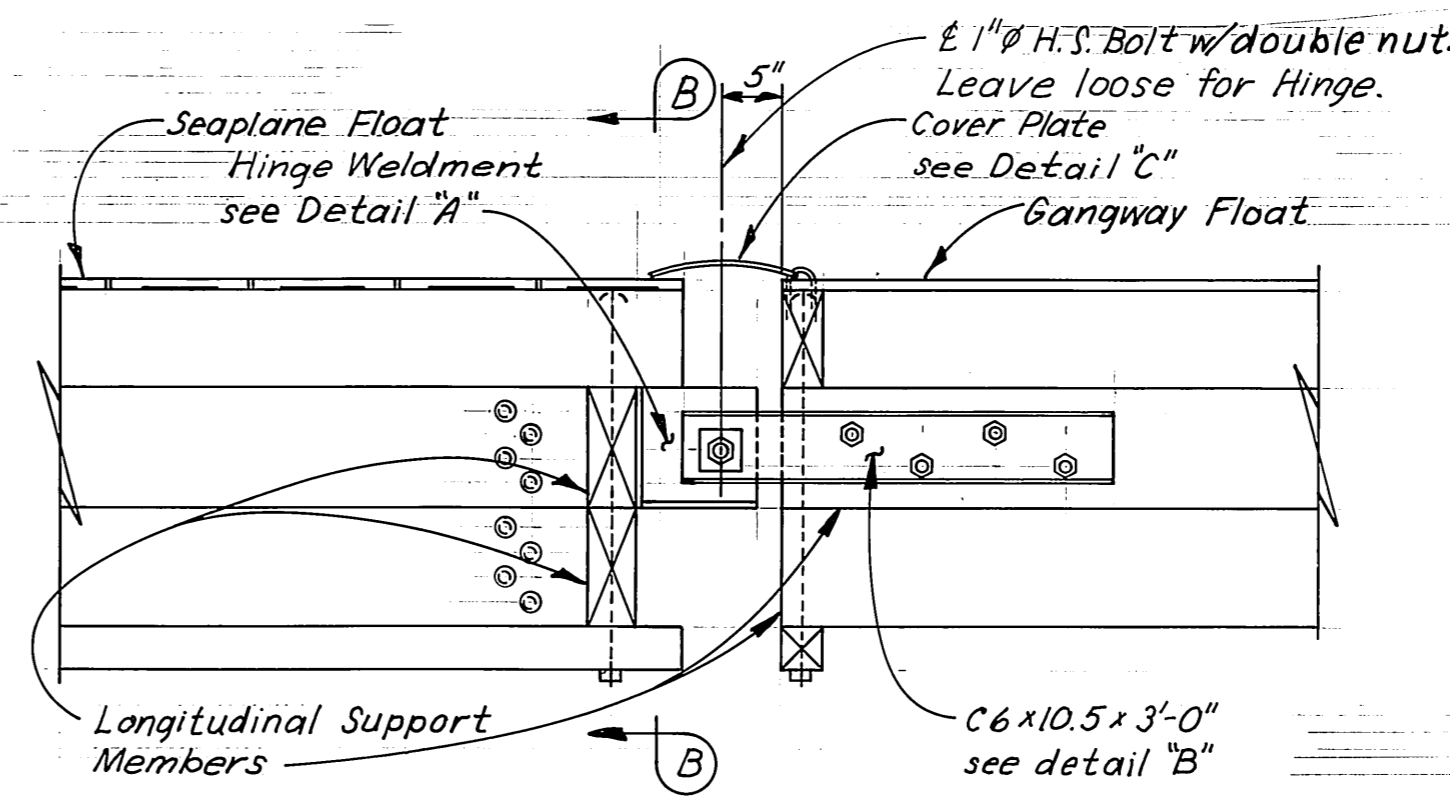


PARTIAL PLAN
Scale: 1/2"=1'-0"

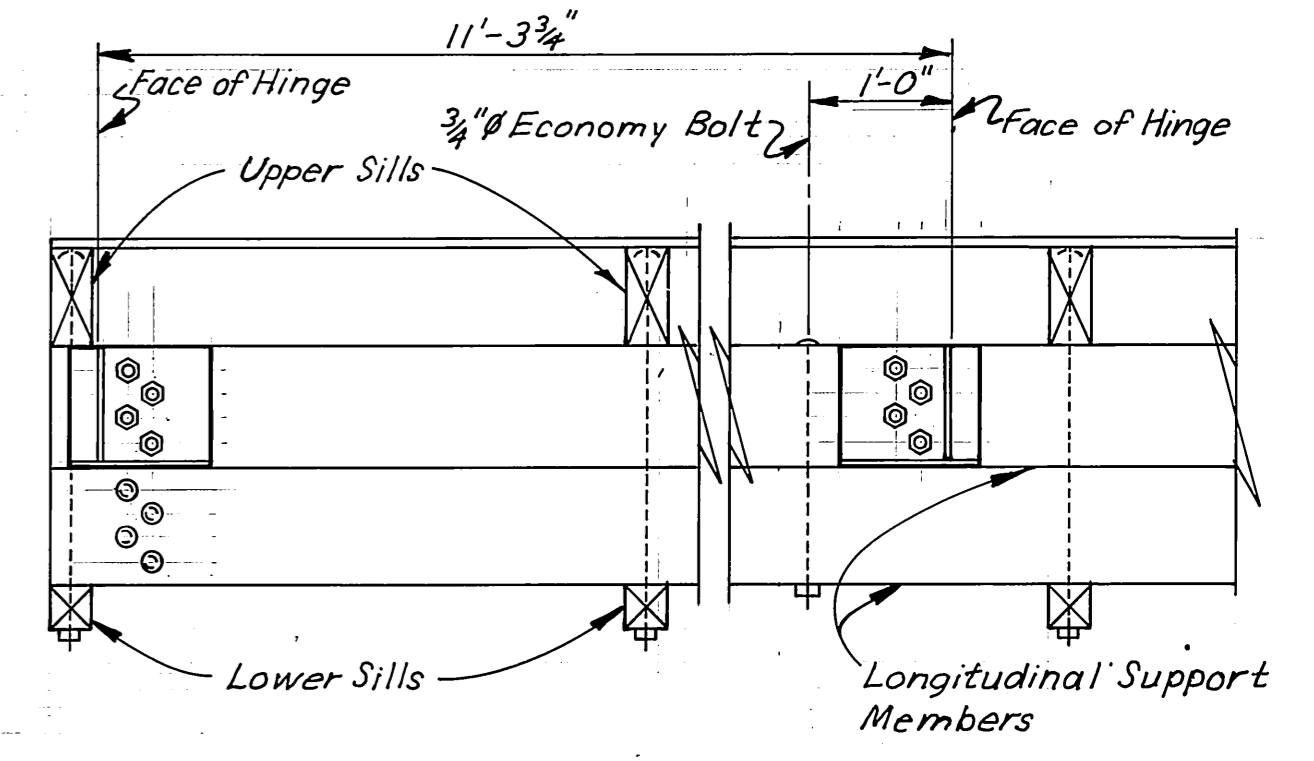
Notes:
All upper sill bolt holes facing decking shall be countersunk 3/8" of such diameter as to accommodate the appropriate size economy bolt head.
3/8" drill all sill bolt holes securing flotation planks only.



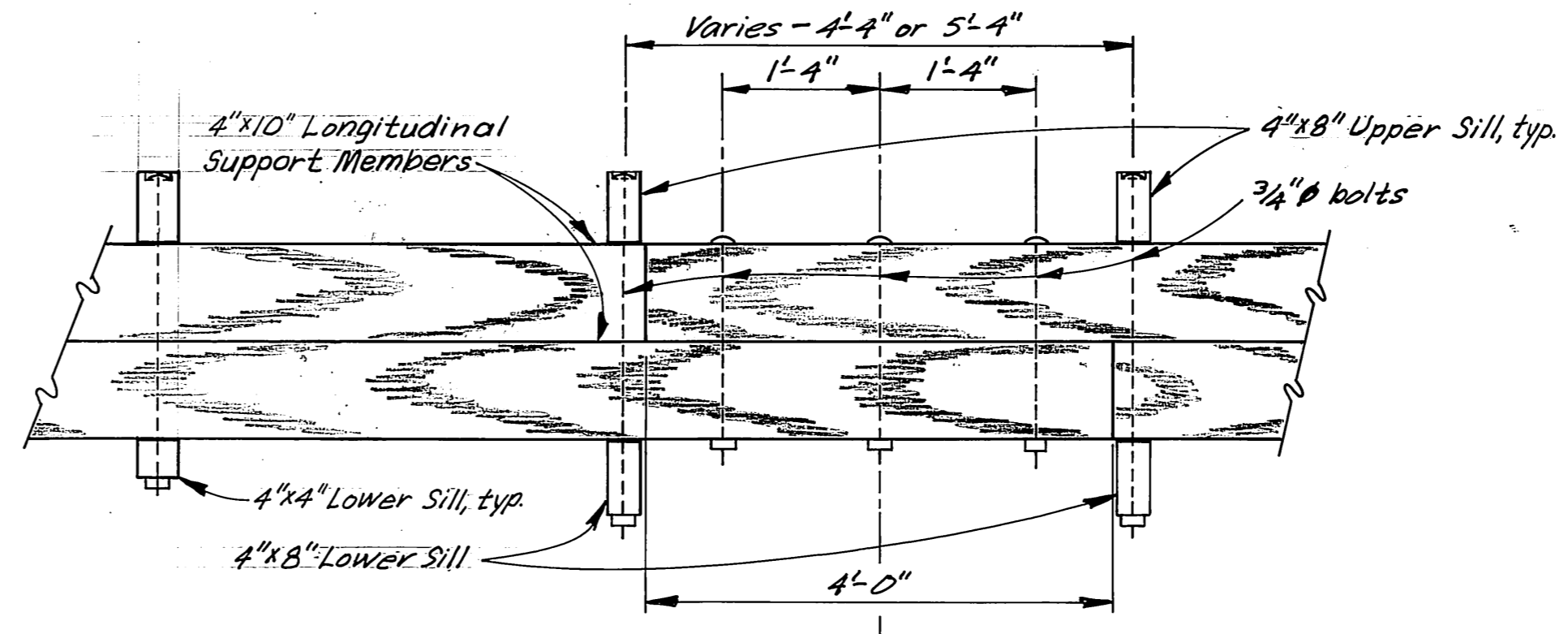
SECTION A-A
Scale: 1/2"=1'-0"



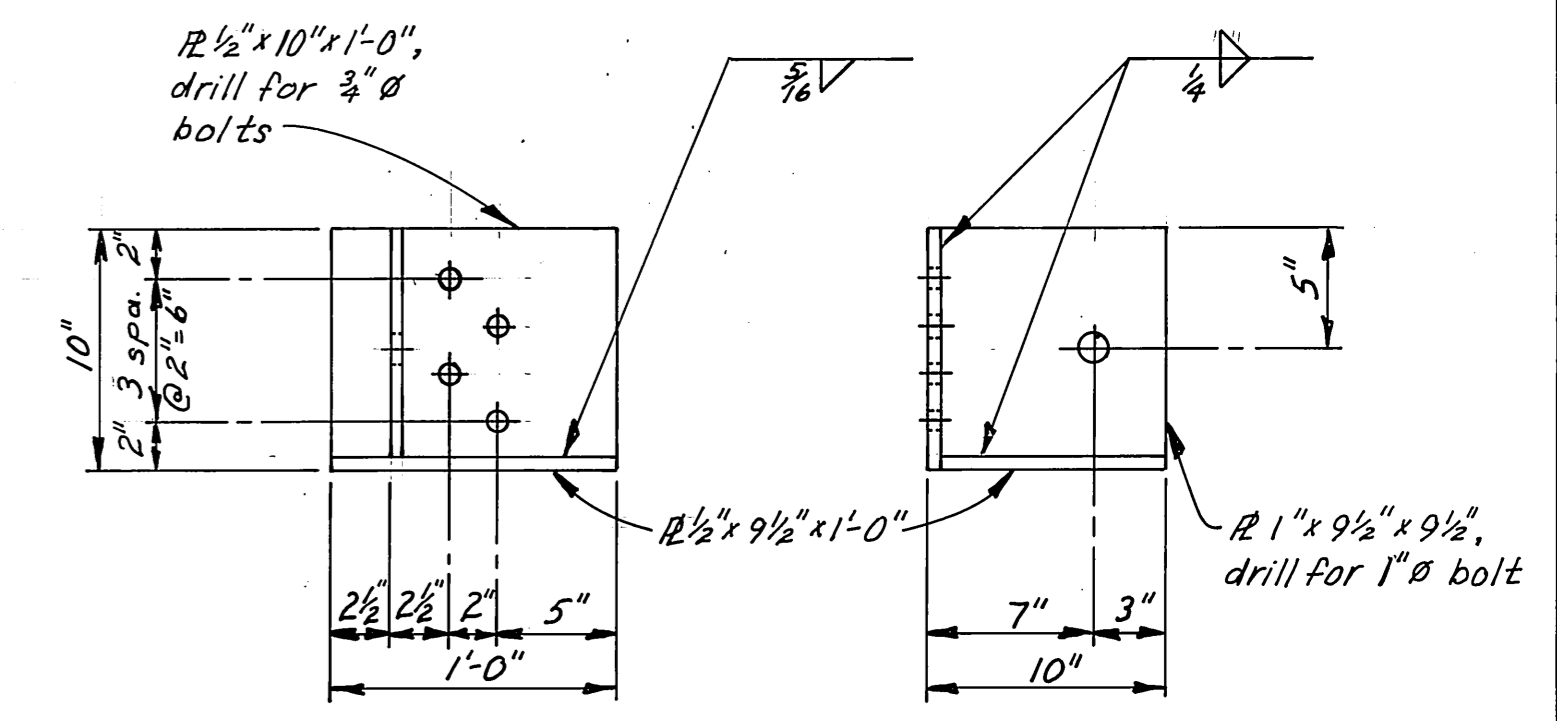
VIEW E-E (from Sheet B)
3/4"=1'-0"



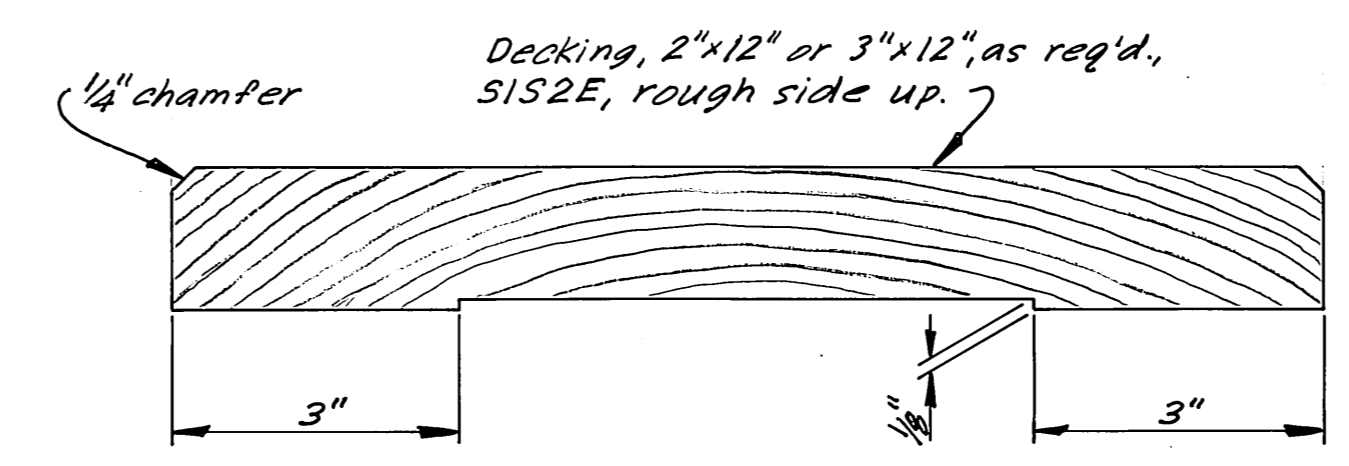
VIEW B-B
3/4"=1'-0"



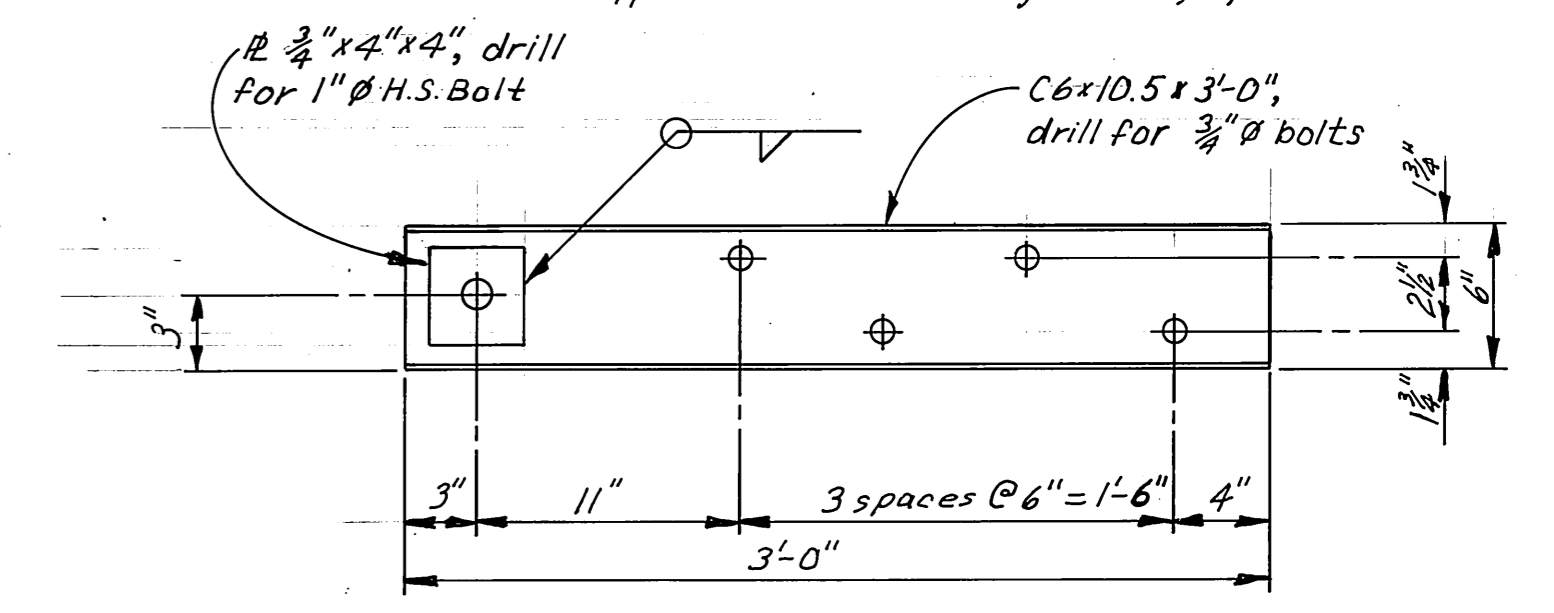
SPLICE DETAIL
Scale: 3/4"=1'-0"



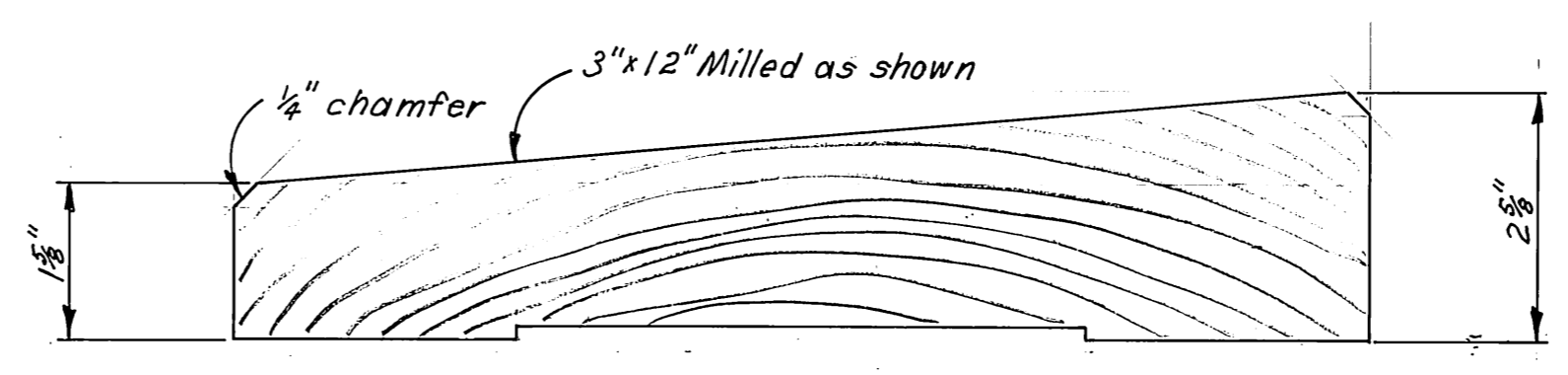
DETAIL A
1/2"=1'-0"
(Left hand Hinge shown, make one opposite hand for right Hinge.)



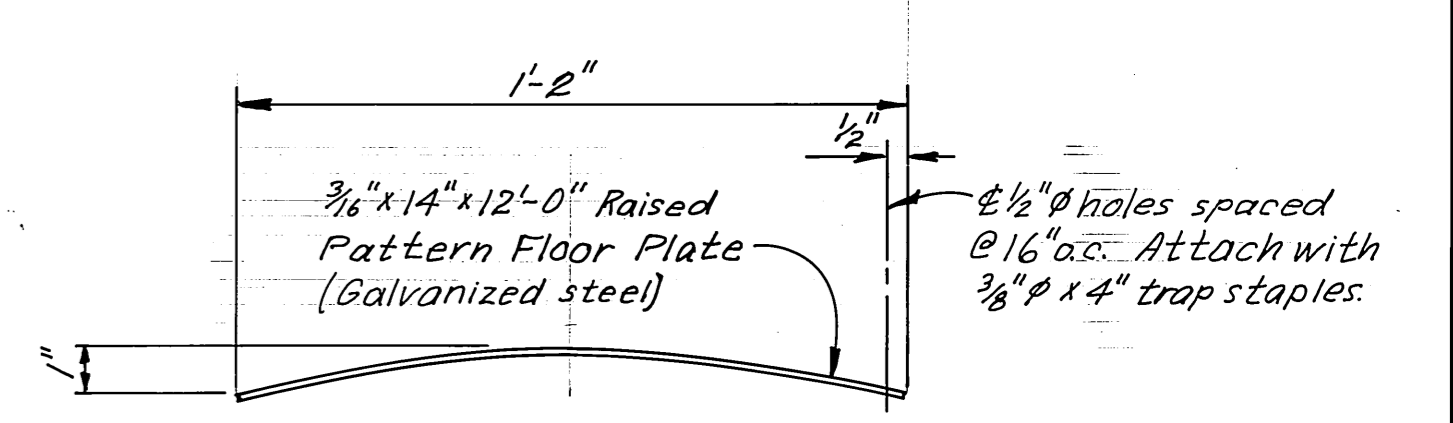
MILLED DECKING DETAIL
Scale: 6"=1'-0"



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




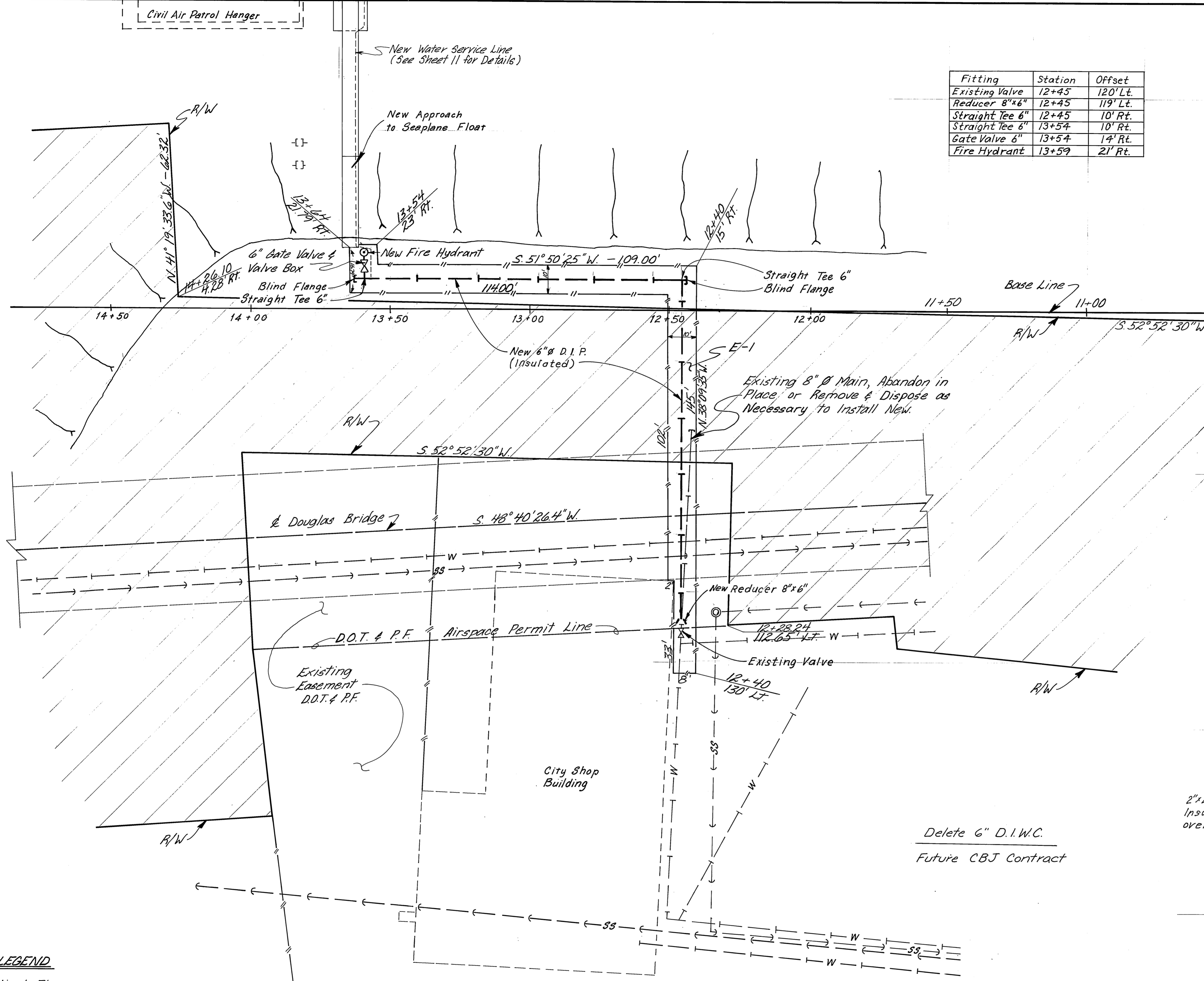
TRANSITION
6"=1'-0"



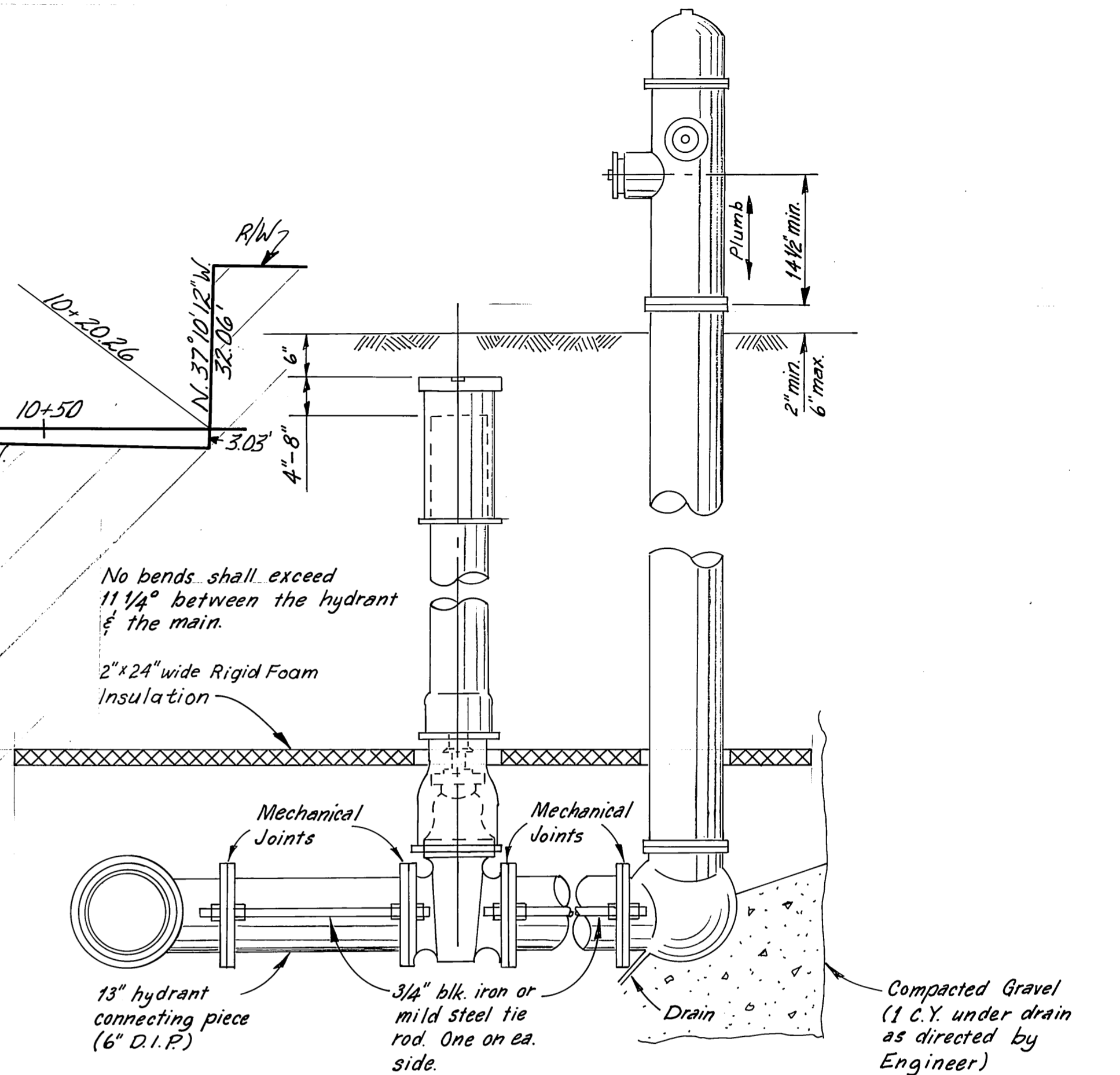
DETAIL C
3"=1'-0"

"As Built" April, 1984

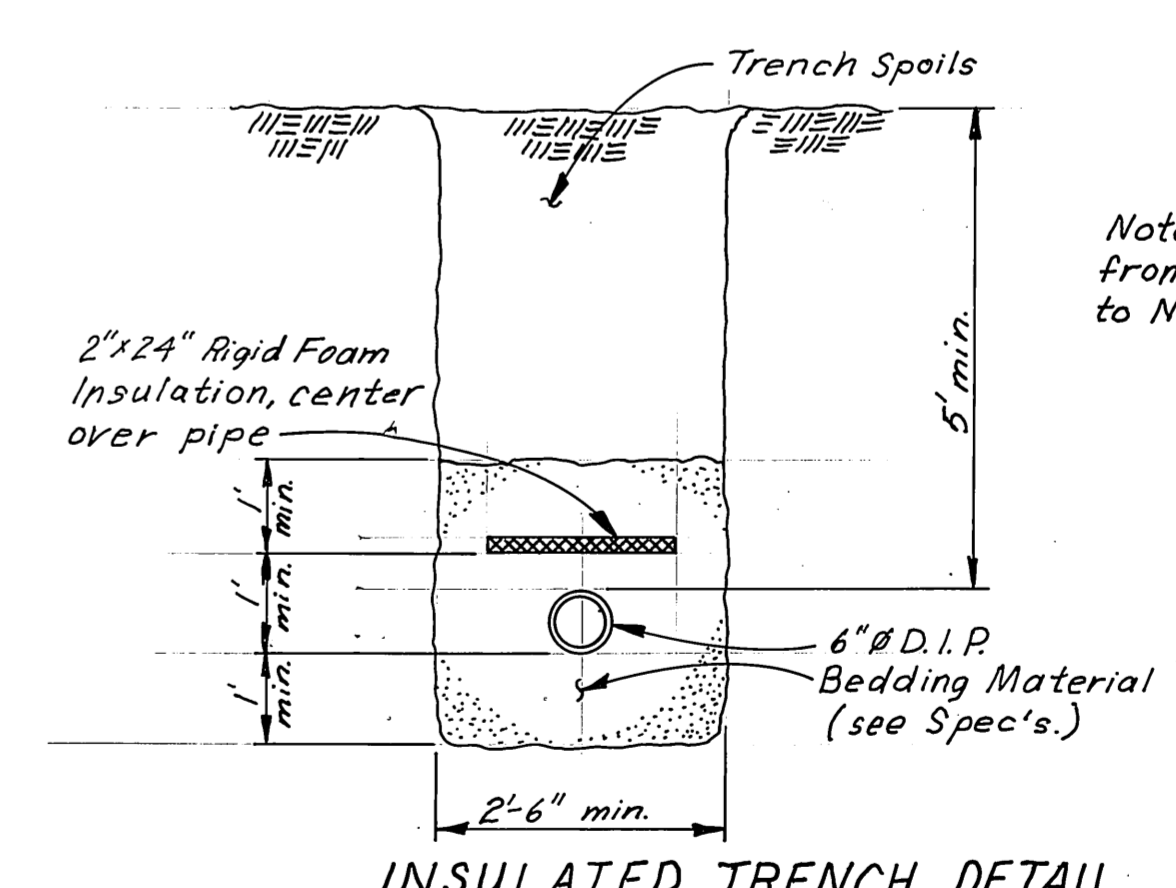
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 4928 John T. Scott, II CE 4785 1-28-83		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Juneau, Harris Harbor Alaska	
TYPICAL SEAPLANE TIE-DOWN FLOAT			
SCALE: <i>As Noted</i>	SURVEYED: _____	APPROVED: <u>Robert P. Beck</u>	
DESIGNED: <u>RAM</u>	DRAWN: <u>LJB</u>	CHECKED: <u>James A. Lowell</u>	
CHECKED: _____	DATE: <u>11-82</u>	PROJECT NUMBER: <u>D19172</u>	
PROJECT NUMBER: <u>D19172</u>		SHEET: <u>9</u> OF <u>13</u>	



Fitting	Station	Offset
Existing Valve	12+45	120' Lt.
Reducer 8"x6"	12+45	119' Lt.
Straight Tee 6"	12+45	10' Rt.
Straight Tee 6"	13+54	10' Rt.
Gate Valve 6"	13+54	14' Rt.
Fire Hydrant	13+59	21' Rt.



FIRE HYDRANT DETAIL
No Scale



INSULATED TRENCH DETAIL
No Scale

Note: Insulation to extend from existing valve tie in to New Fire Hydrant.

Delete 6" D.I.W.C.
Future CBJ Contract

"AsBuilt" April, 1984

NO.	REVISION	DATE	DRAWN
1	Revised Fire Hydrant Location, Add State R/W Limits, Corrected Locations of Building, Bridge, & Seaplane Float.	3/14/83	JEM

- LEGEND**
- Blind Flange
 - Fire Hydrant
 - Gate Valve & Valve Box
 - State of Alaska R/W
 - Easement for Water Line
 - New 6" D.I. Water Line
 - 69 KV Power Line
 - New 1" Water Service Line (See Sheet 11 for details)

UTILITIES PLAN
1" = 20'-0"

STAMP

STATE OF ALASKA
49th
P. Bednarowicz
CE-5104

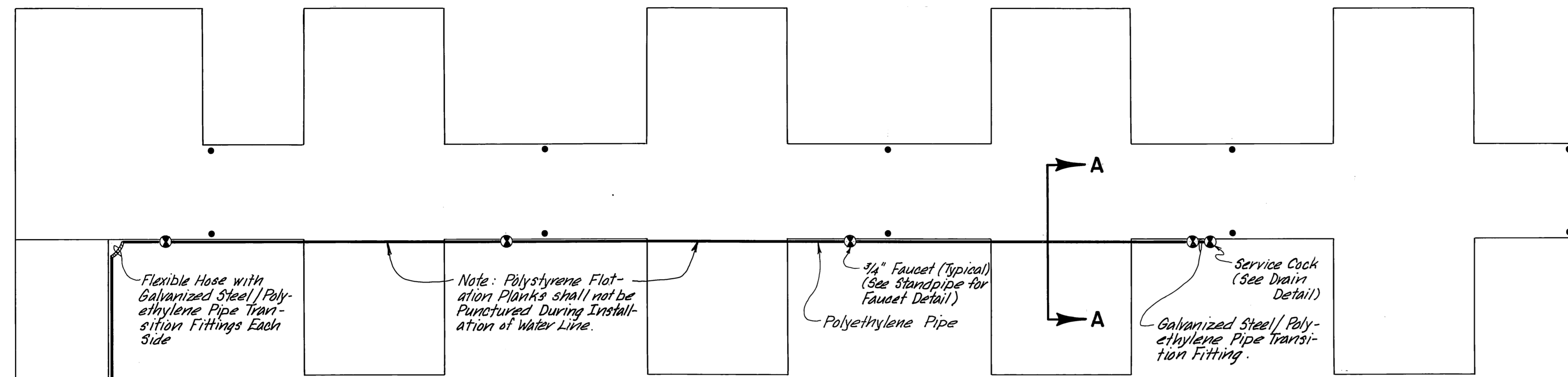
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

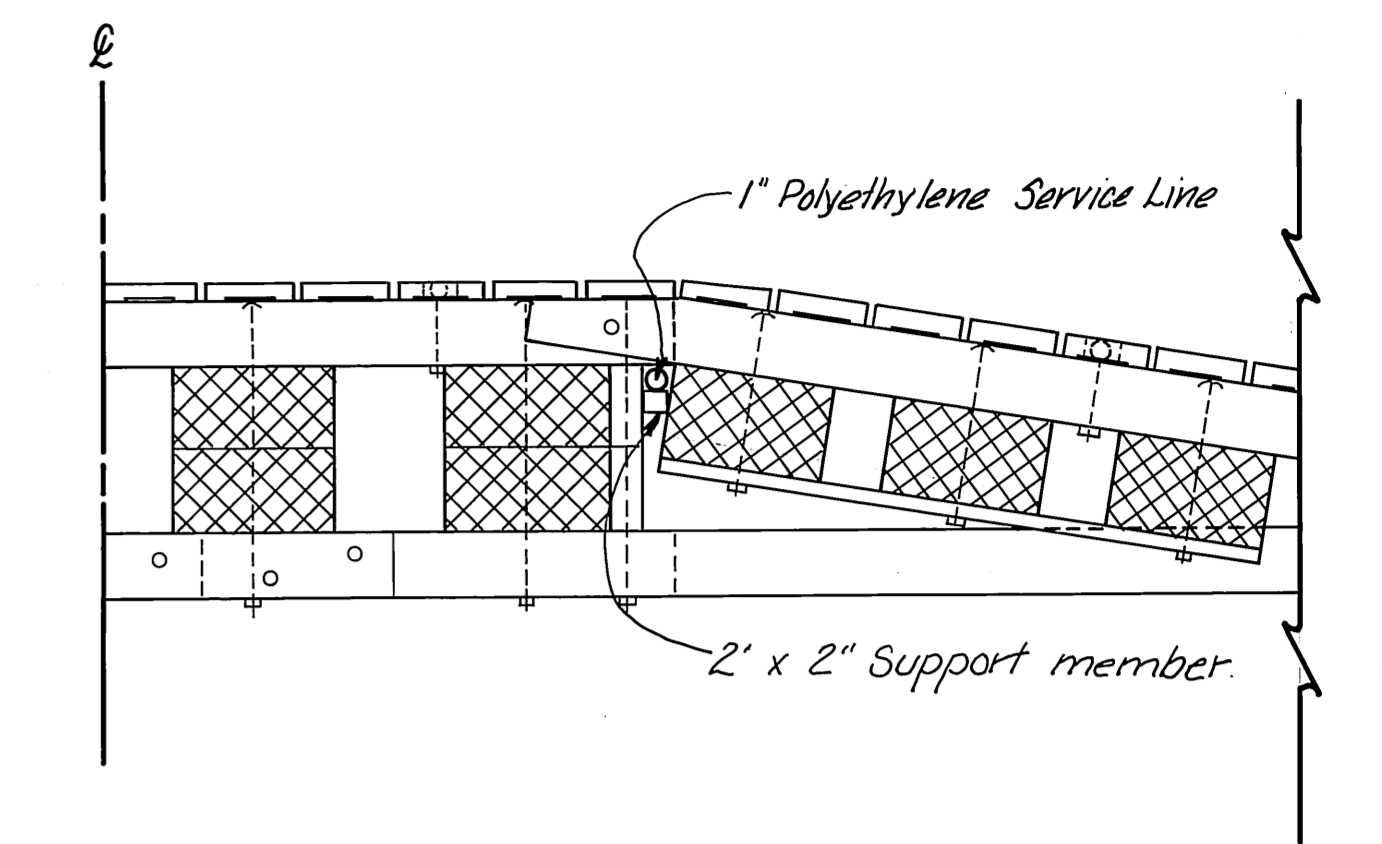
Juneau, Harris Harbor Alaska

WATER SYSTEM

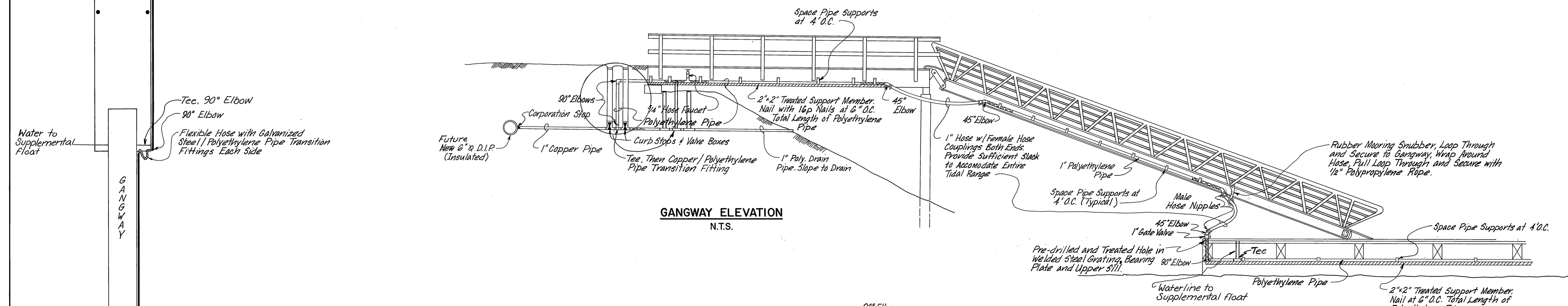
SCALE <u>As Noted</u>	SURVEYED _____	APPROVED <u>Robert P. Beck</u>
DESIGNED <u>RAM</u>	DRAWN <u>LUB/DB</u>	CHECKED _____
CHECKED _____	DATE <u>12-82</u>	DATE _____
PROJECT NUMBER <u>D19172</u>	SHEET <u>10</u> OF <u>13-14</u>	



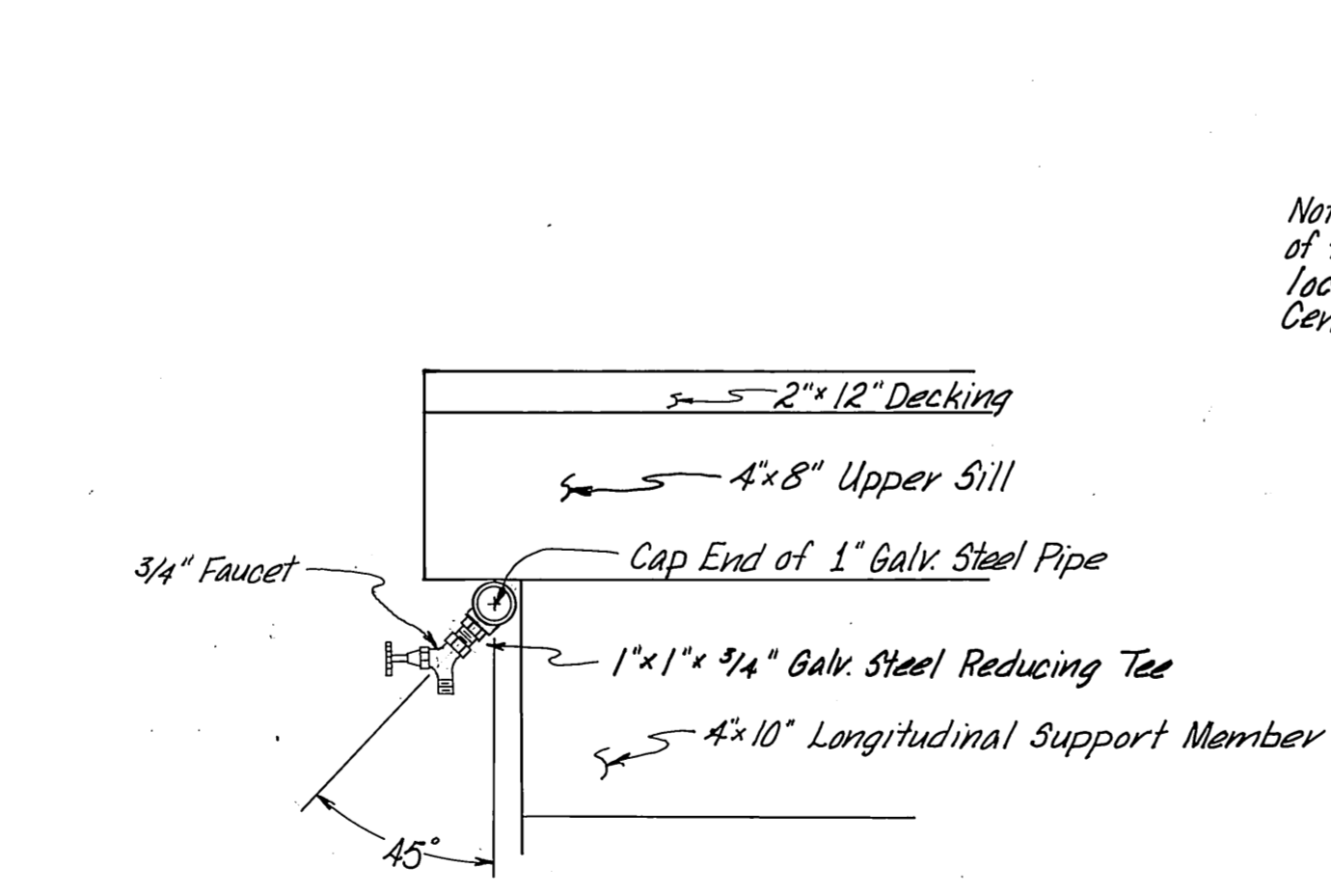
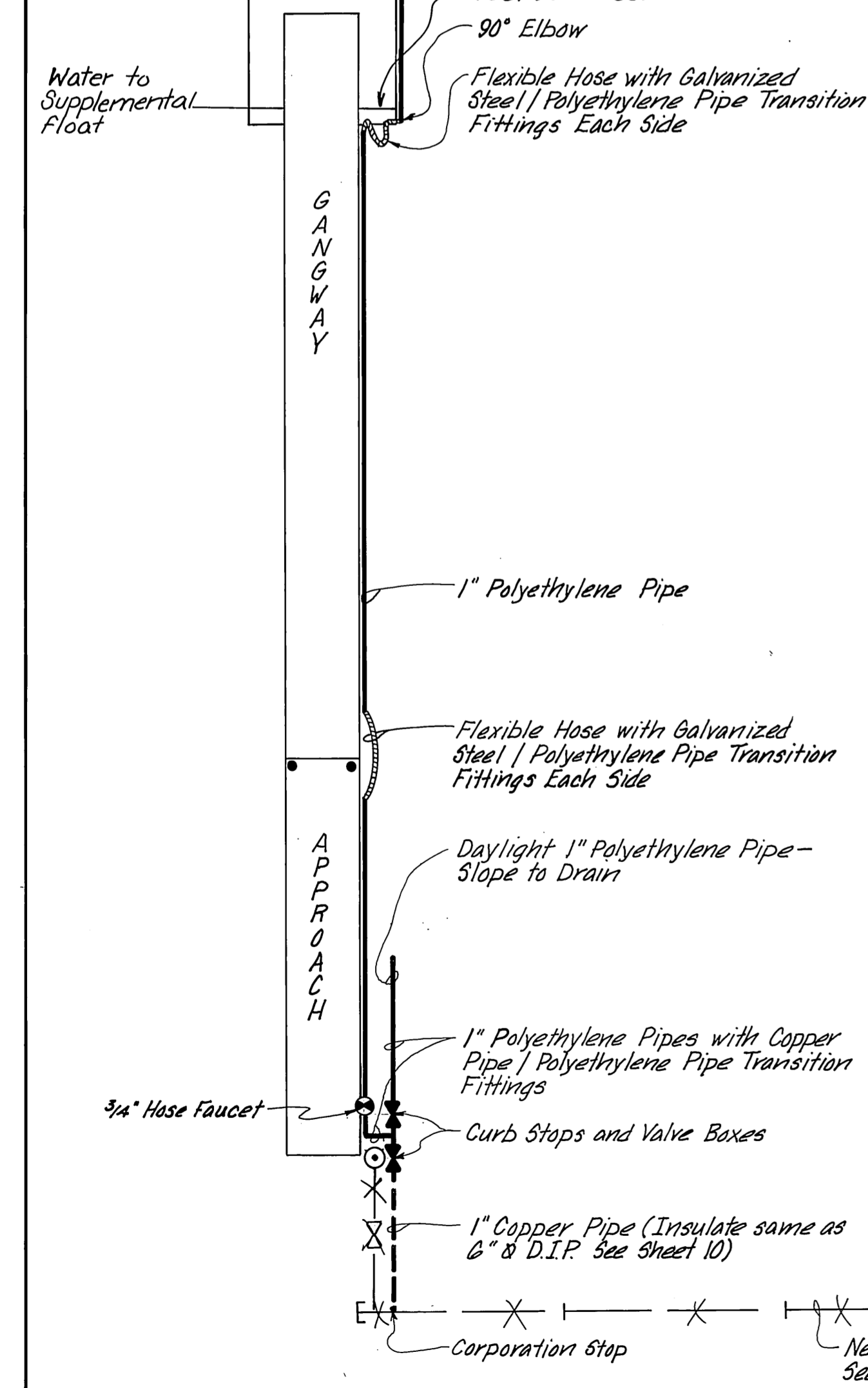
WATER SERVICE PLAN
SCALE 1" = 10'-0"



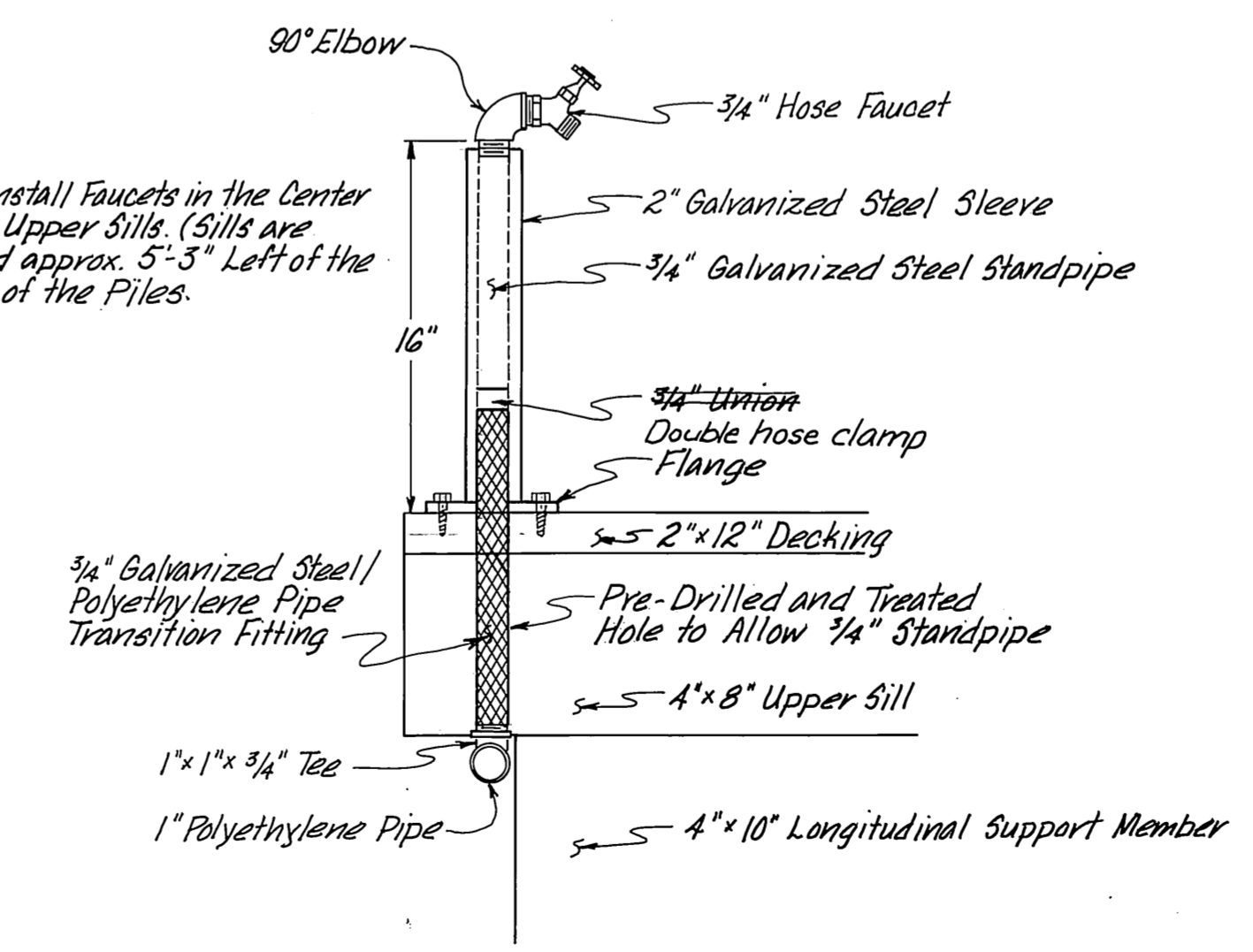
SECTION A-A
N.T.S.



GANGWAY ELEVATION
N.T.S.



DRAIN DETAIL
N.T.S.



STANDPIPE FOR FAUCET DETAIL
N.T.S.

LEGEND

- Piling
- 3/4" Faucet
- Fire Hydrant
- ⊗ Curb Stop & Valve Box
- ⊗ 6" Gate Valve & Valve Box
- 1" Service Line, High Pressure Polyethylene Pipe, Driscopipe 8600 or Approved Equal, 1.315" O.D.
- - - 6" & D.I.P.
- - - 1" Copper Pipe
- 1" Flexible Hose
- Transition Fitting, Polyethylene / Galvanized Steel or Polyethylene / Copper, as appropriate.

"AsBuilt" April, 1984

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AVIATION DESIGN AND CONSTRUCTION			
JUNEAU, HARRIS HARBOR		ALASKA	
WATER SYSTEM SERVICE CONNECTION			
SCALE _____	SURVEYED _____	APPROVED <i>William L. Baumgartner</i> WILLIAM L. BAUMGARTNER, P.E. REGION DESIGN ENGINEER	
DESIGNED T.F.	DRAWN C.R.H.	P. Bednarowicz CE-5104 REGISTERED PROFESSIONAL ENGINEER	
CHECKED P.C.B.	DATE 3/8/83	PROJECT NUMBER D 19172	
		SHEET 11 OF 1314	

See C.O. Sheet 3 of 4

THRUST BLOCK MINIMUM SIZE TABLE

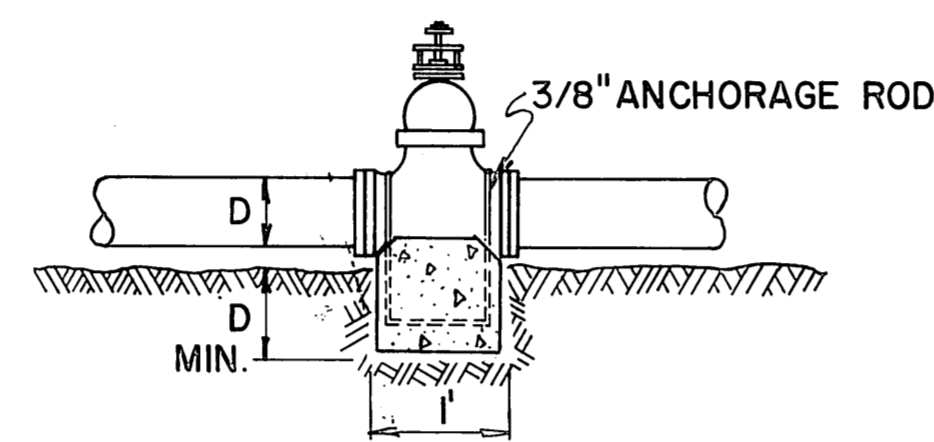
FOR BENDS GREATER THAN 45°, TEE BRANCHES & CROSSES

PIPE DIAM (IN.)	WATER PRESSURE IN PIPE (P.S.I.)					
	50		150		250	
	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)
2	0.5	0.5	0.8	1.0	1.0	1.3
3	0.6	0.8	1.0	1.3	1.1	1.5
4	0.8	1.0	1.6	3.1	1.5	3.0
6	1.0	1.3	1.9	4.0	3.2	7.0
8	1.1	1.5	3.2	7.0	5.4	11.0
10	1.7	3.2	4.9	10.0	8.3	19.0
12	2.4	5.2	7.1	17.0	11.8	24.0
14	3.2	7.0	9.8	21.0	16.1	32.0
16	4.1	8.0	12.3	25.0	20.5	40.0
18	5.4	11.0	16.2	32.0	27.1	50.0
20	6.8	15.0	20.6	40.0	34.4	70.0
24	8.2	19.0	25.3	50.0	42.0	80.0

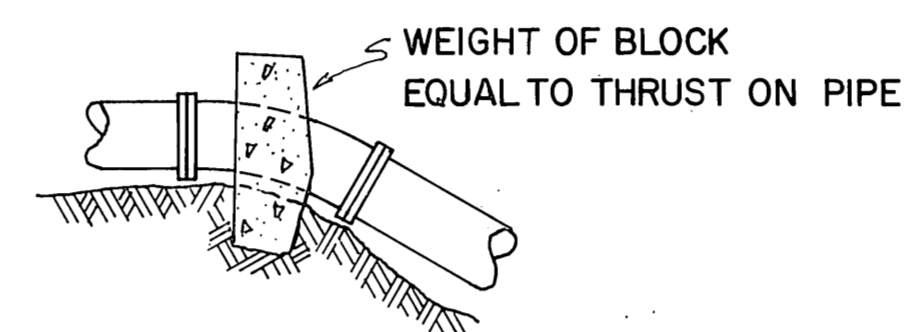
FOR BENDS 45° OR LESS						
PIPE DIAM (IN.)	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)	BEARING AREA (SQ. FT.)	CONCRETE VOLUME (CU. FT.)
2	0.5	0.5	0.5	0.5	0.6	0.8
3	0.5	0.5	0.7	0.9	0.8	1.0
4	0.5	0.5	0.9	1.1	1.0	1.5
6	0.6	0.8	1.2	2.0	1.7	3.2
8	0.8	1.0	1.8	3.6	2.9	6.0
10	1.0	1.3	2.7	5.8	4.5	9.0
12	1.3	2.5	3.8	7.5	6.4	14.0
14	1.7	3.2	5.2	11.0	8.6	19.0
16	2.2	4.5	6.7	15.0	11.2	24.0
18	2.8	5.9	8.5	19.0	14.1	30.0
20	3.5	7.0	10.5	22.0	17.5	35.0
24	4.2	8.0	12.8	26.0	21.5	40.0

VALVES REQUIRING ANCHORAGE	
WORKING PRESSURE (P.S.I.)	VALVES REQUIRING ANCHORAGE
50 - 100	12 INCH AND UP
101 - 150	8 INCH AND UP
151 - 200	ALL SIZES

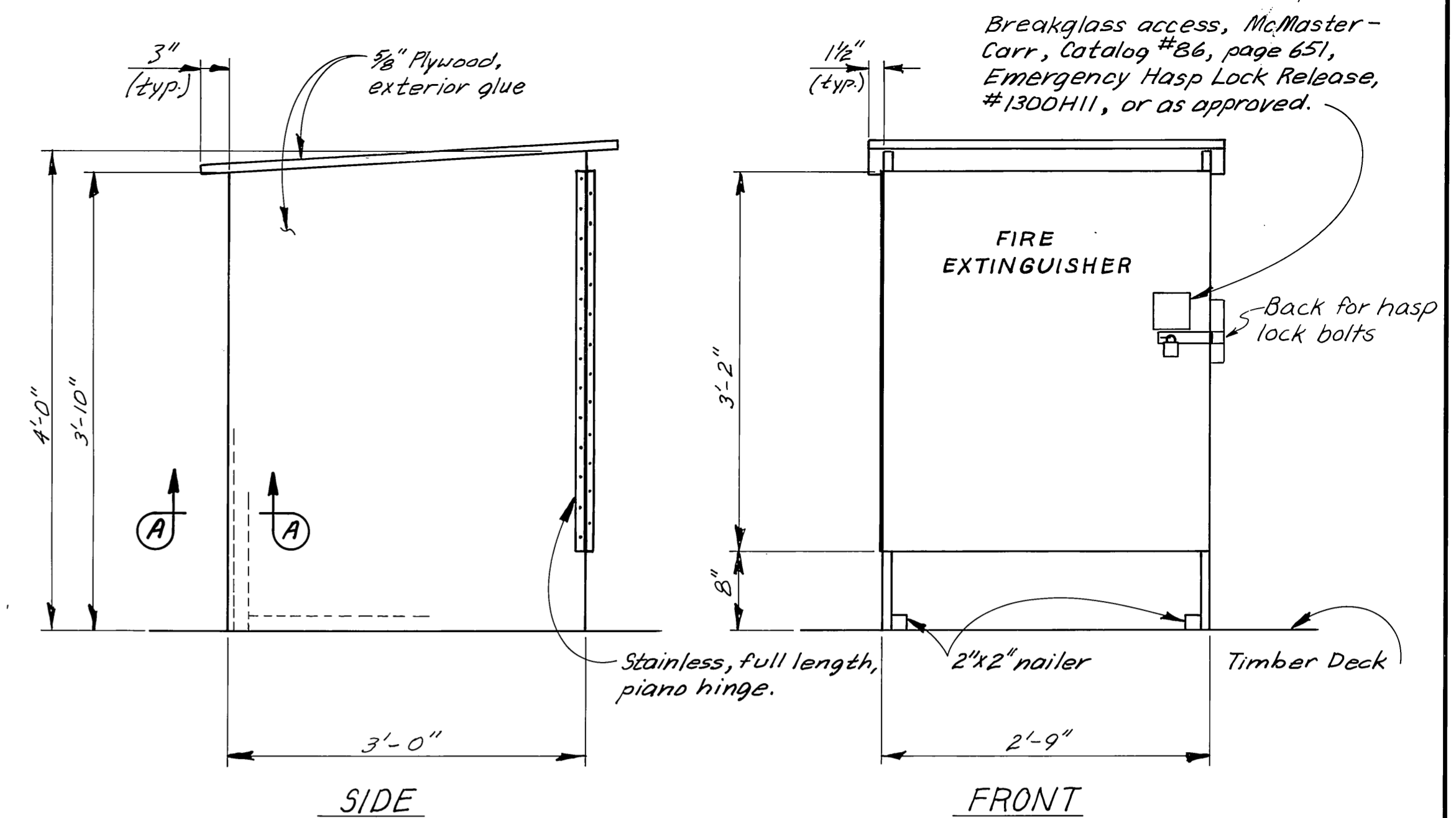
THRUST AT VERTICAL BEND PER DEGREE DEFLECTION AT 100 P.S.I. WATER PRESSURE			
PIPE SIZE	THRUST (LB.)	PIPE SIZE	THRUST (LB.)
4"	35	10"	197
6"	72	12"	278
8"	122	14"	377
		16"	486



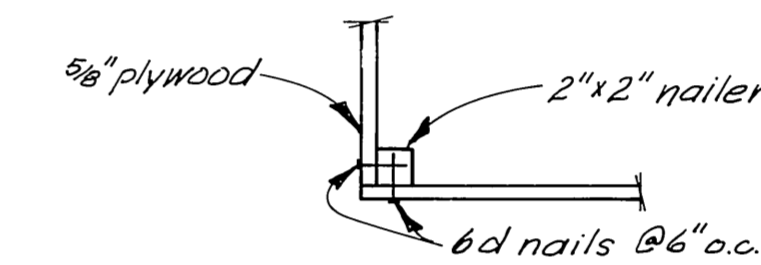
ANCHORAGE OF VALVES



VERTICAL BENDS



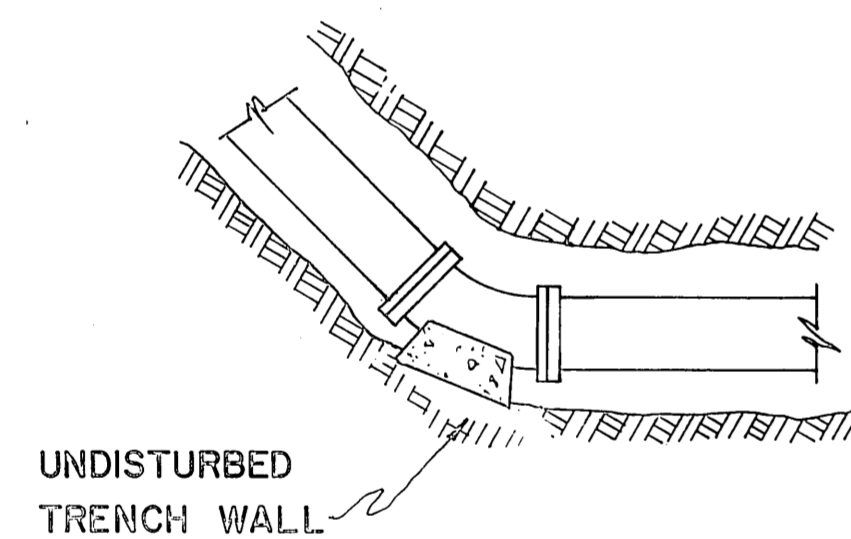
ELEVATION ①
FIRE EXTINGUISHER CABINET
1"=1'-0"



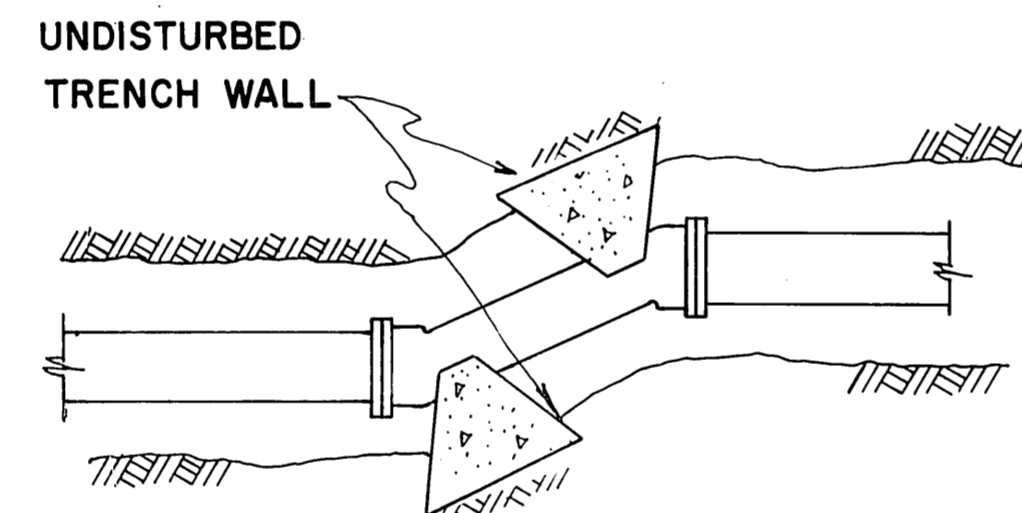
SECTION A-A
1/2"=1'-0"

NOTES

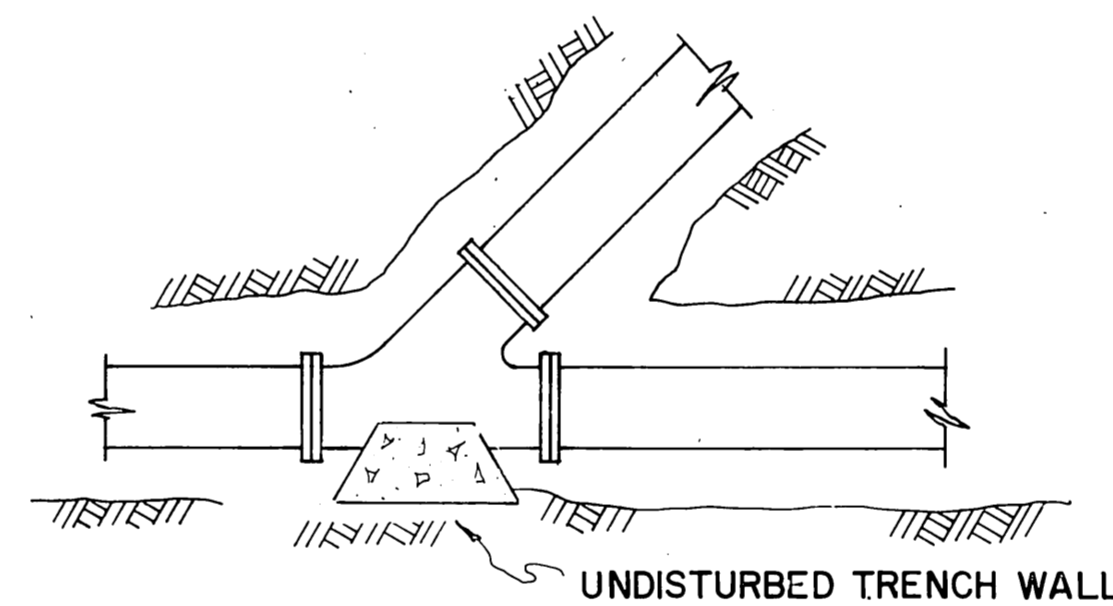
- THRUST BLOCKS ARE TO BE CONCRETE POURED IN PLACE BETWEEN THE FITTING AND UNDISTURBED TRENCH WALL.
- CONCRETE SHALL BE KEPT BEHIND BELL OF FITTING SO AS NOT TO OBSTRUCT THE JOINT.
- THRUST BLOCKS ARE REQUIRED WHENEVER PIPE-LINE CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS, OR DEVELOPS THRUST AT VALVES.
- MATERIAL, BEHIND THE THRUST BLOCKS, DEEMED INADEQUATE BY THE ENGINEER SHALL BE REMOVED AND REPLACED BY A BALLAST MATERIAL, THE EXTENT AND QUALITY OF REPLACEMENT MATERIAL TO BE DETERMINED BY THE ENGINEER.
- IN IMPERVIOUS SOILS, A HOLE SHALL BE DUG BENEATH THE HYDRANT THRUST BLOCK TO A MINIMUM VOLUME OF 7 CUBIC FEET. THE HOLE SHALL BE BACKFILLED AND COMPACTED WITH A POROUS MATERIAL ACCEPTABLE TO THE ENGINEER.



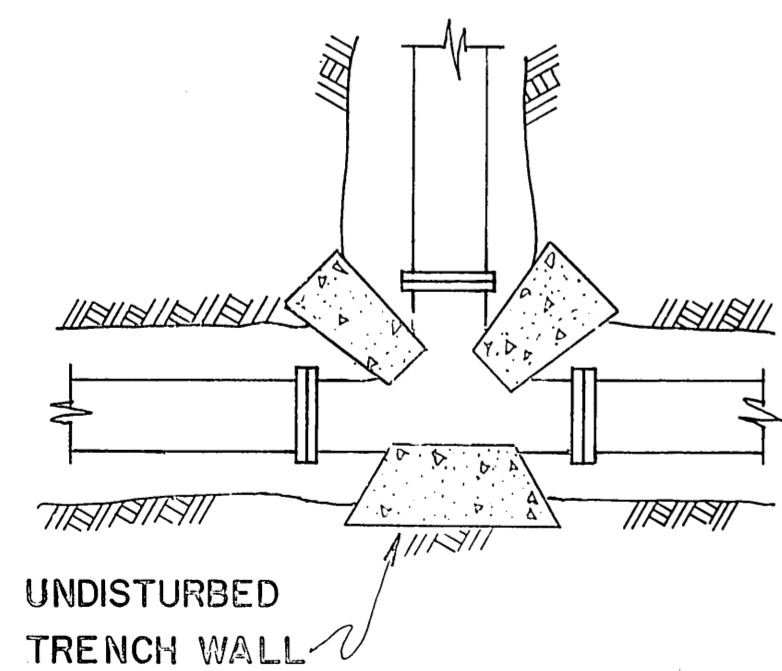
UNDISTURBED TRENCH WALL



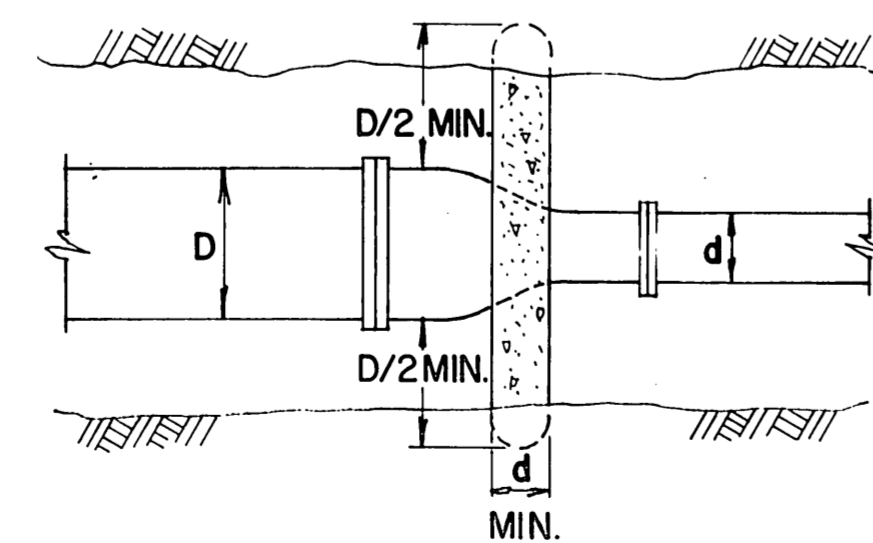
PLACEMENT OF THRUST BLOCKS



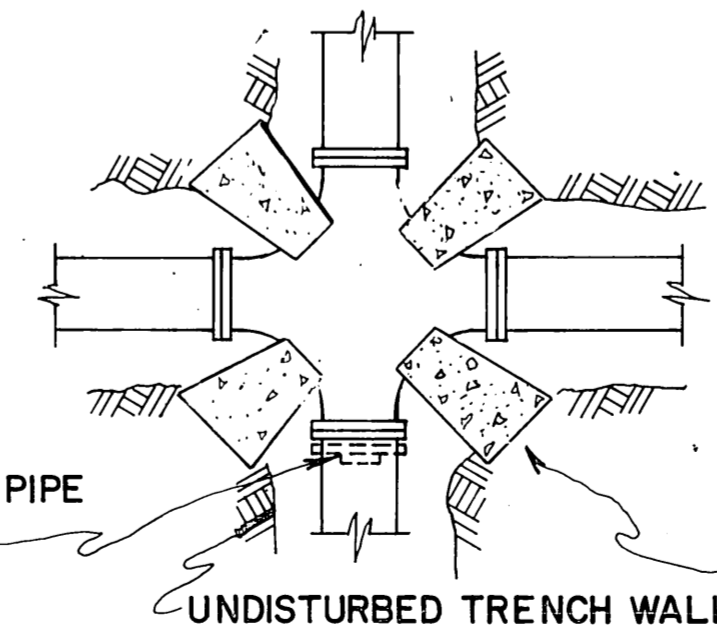
UNDISTURBED TRENCH WALL



UNDISTURBED TRENCH WALL



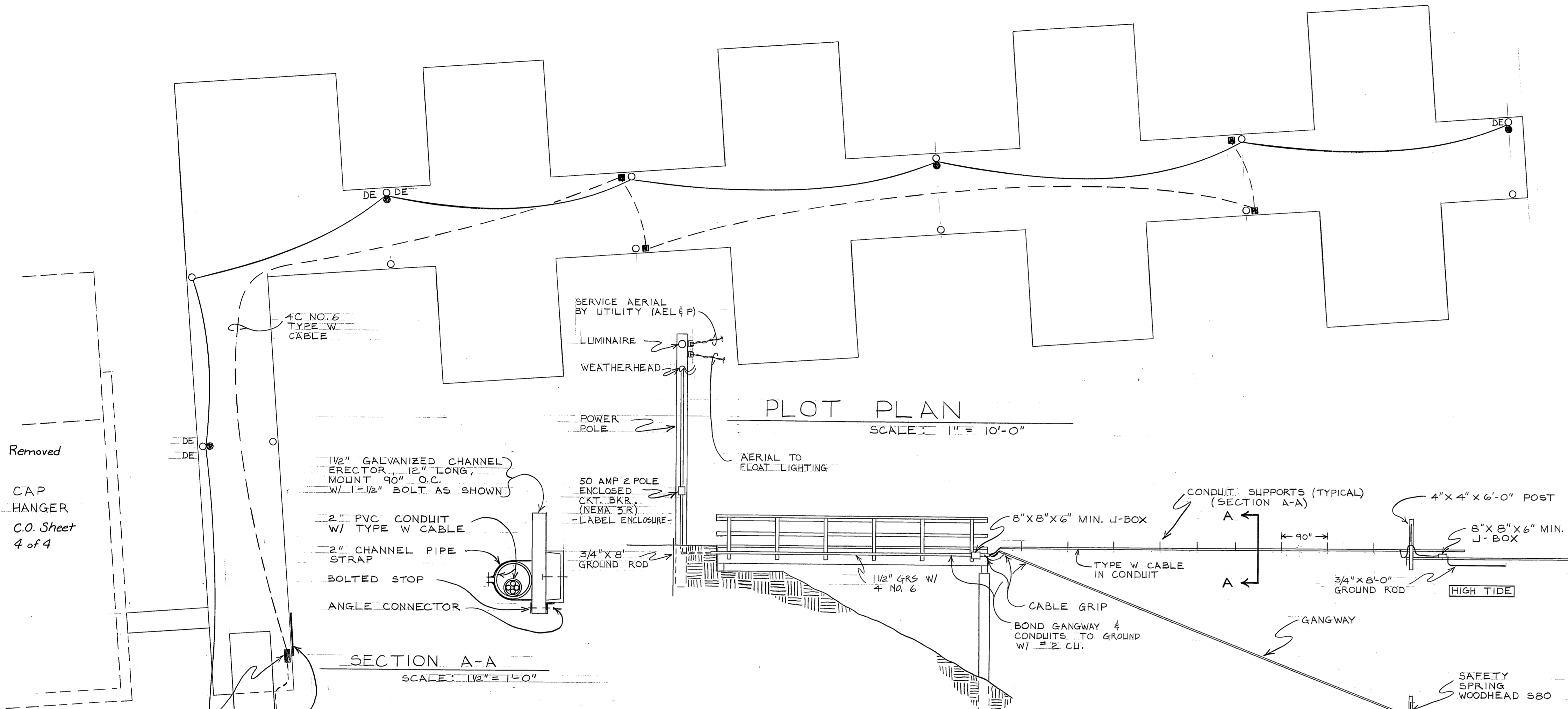
CONTINUED PIPE OR PLUG



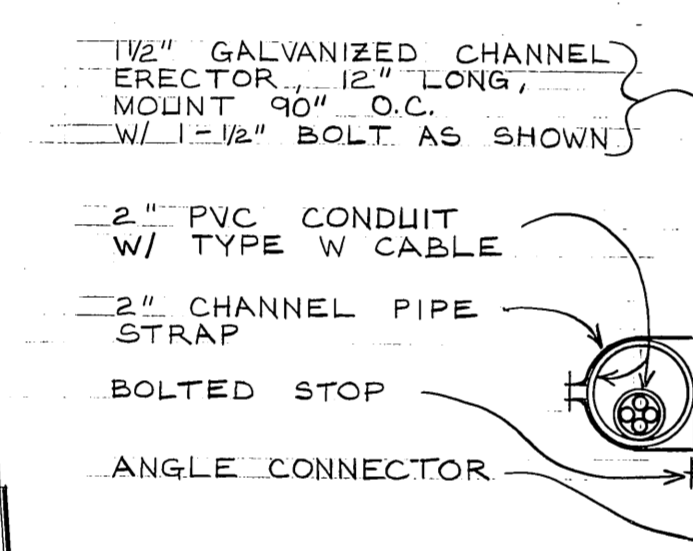
UNDISTURBED TRENCH WALL

"AsBuilt" April, 1984			
① Add Fire Extinguisher	2/28/83	LJB	
No.	Revision	Date	Drawn

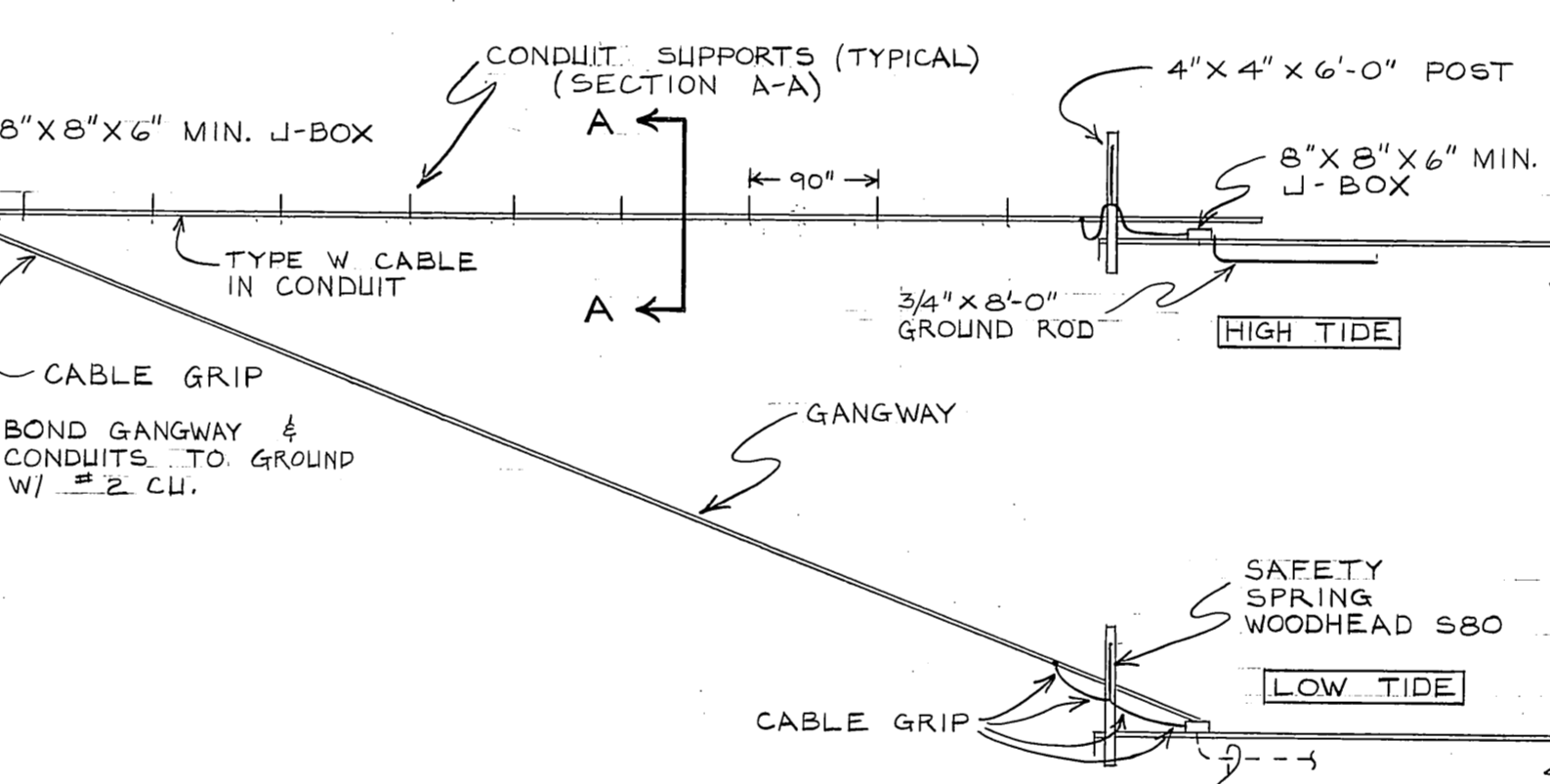
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION		
	Juneau, Harris Harbor		Alaska
	THRUST BLOCKS		
SCALE: no scale	SURVEYED: _____	APPROVED: <u>Robert P. Beck</u>	
DESIGNED: _____	DRAWN: _____	CHECKED: <u>James A. Lowell</u>	
CHECKED: _____	DATE: _____		
PROJECT NUMBER: <u>D19172</u>	SHEET <u>12</u> OF <u>13 14</u>		



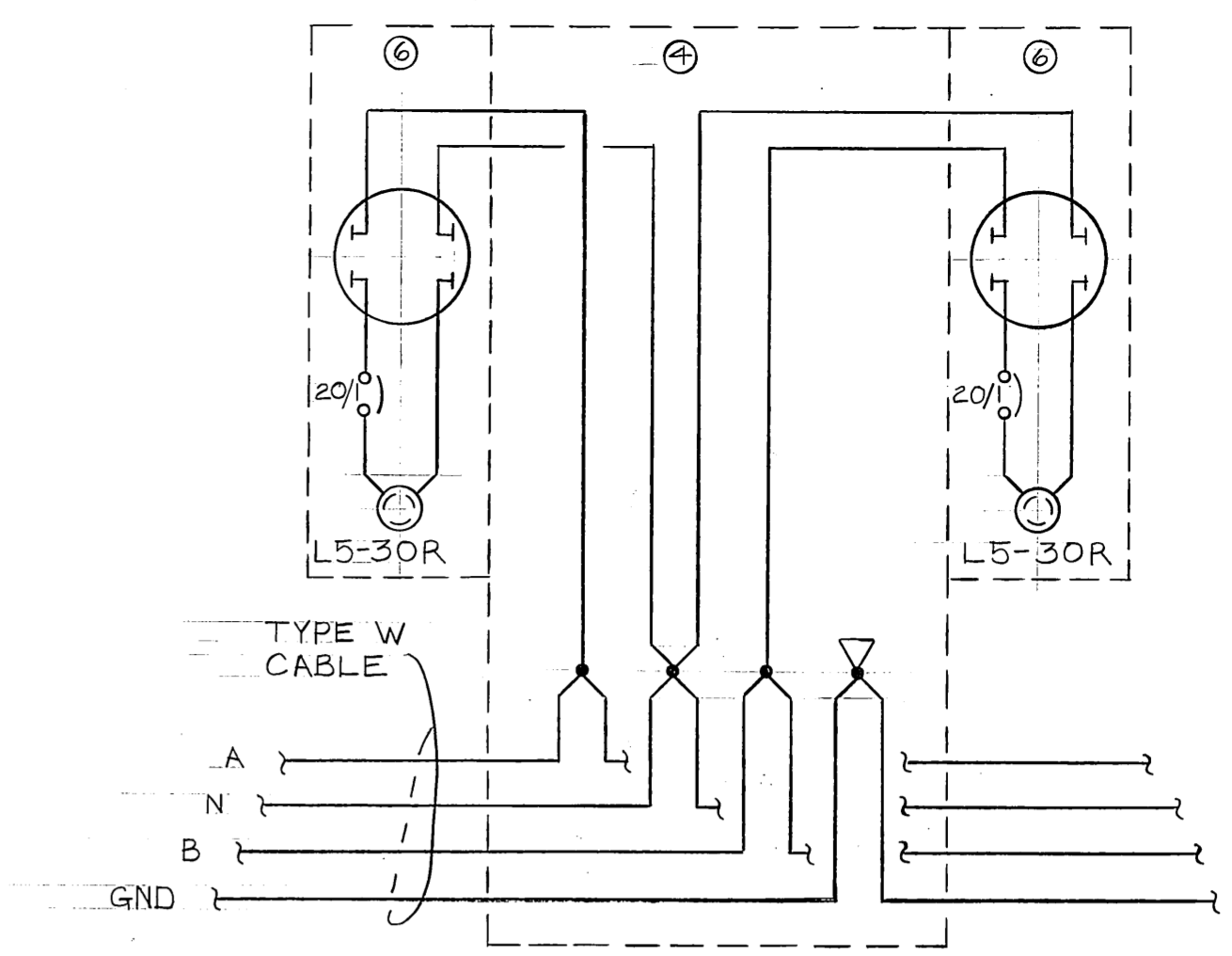
PLOT PLAN
SCALE: 1" = 10'-0"



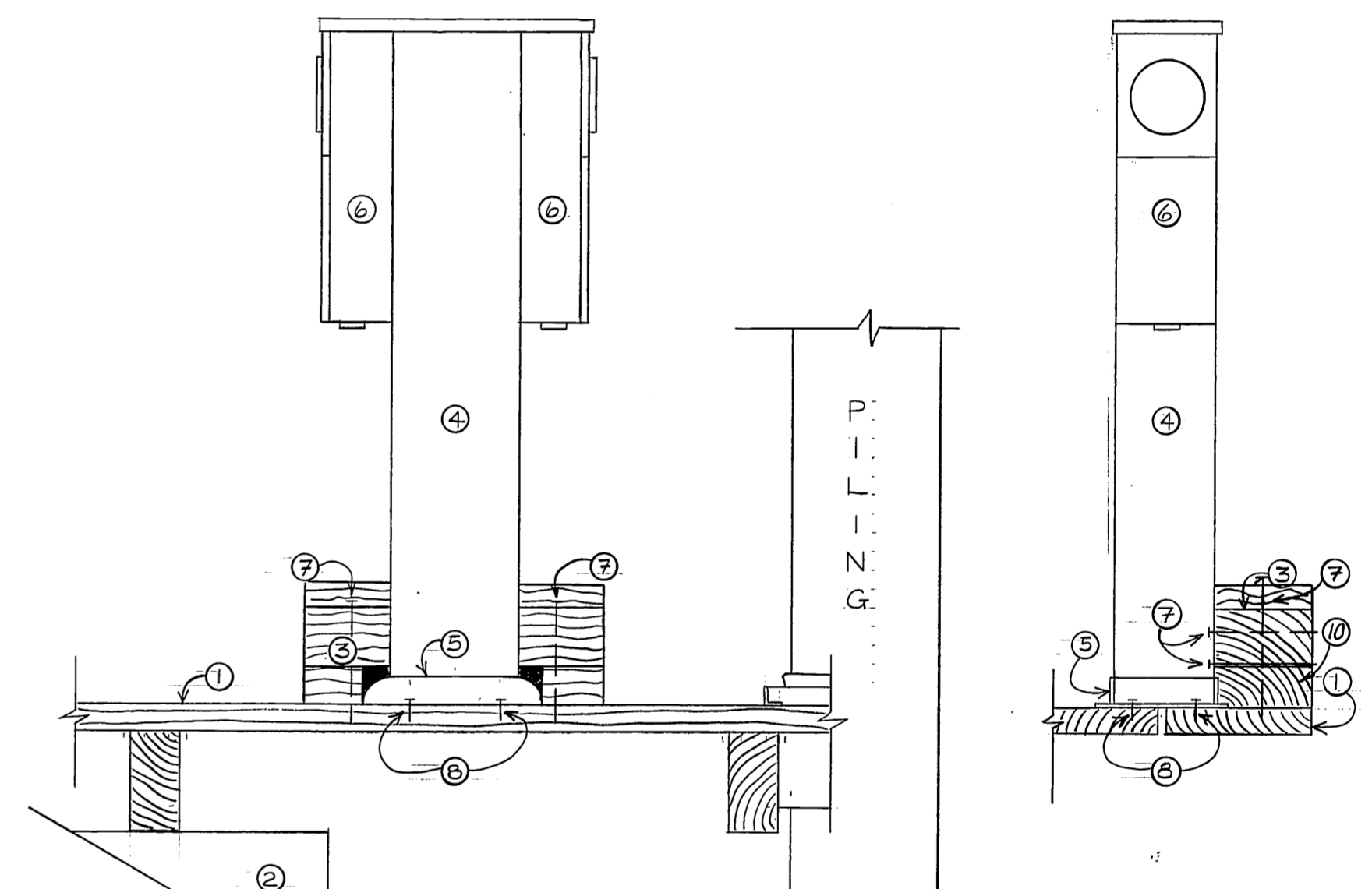
SECTION A-A
SCALE: 1/2" = 1'-0"



ELEVATION - GANGWAY
SCALE: 1/8" = 1'-0"



120 VOLT PEDESTAL RISER
NO SCALE



PEDESTAL
SCALE: 1" = 1'-0"

Removed
CAP HANGER
C.O. Sheet
4 of 4

3/4" x 8'-0" GROUND ROD FASTENED TO BASE OF FLOAT W/ COPPER STRAPS CONNECT TO SYSTEM GRND.

2" PVC W/ 4C NO. 6 TYPE W CABLE

GANGWAY APPROACH

2-8" x 8" x 6" MIN J-BOX

1 1/2" GRS W/ 4 NO. 6

30' CLASS 2 POWER POLE SET AT 5' DEPTH (SEE GANGWAY ELEVATION)

±22.5 ELEVATION

NOTES

- ① PILING W/ AERIAL LINE SUPPORT CLEVIS & INSULATOR: JOSLYN U93 & U51
- ② AERIAL CABLE: # 6 TRIPLEX W/ ACSR MESSENGER
- ③ 5/8" GALVANIZED BOLT
- ④ PILING W/ AERIAL LINE SUPPORT & LUMINAIRE
- ⑤ LUMINAIRE: VOIGT TUBALOID 55 WATT LOW PRESSURE SODIUM, IES TYPE I
- ⑥ LUMINAIRE POLE BRACKET, GALVANIZED 1 1/2 INCH X 2 INCH O.D. PIPE
- ⑦ 3/8" GALVANIZED BOLTS
- ⑧ MAKE CONNECTION FROM AERIAL CABLE TO LUMINAIRE W/ 10/3 SO CABLE (BLACK)
- ⑨ MOUNT DEADEND CLEVIS (SAME AS ②) TO FACE CONDUCTOR BEING TERMINATED
- ⑩ ADJUST LUMINAIRE MOUNTING TO PROVIDE 6" MINIMUM CLEARANCE WITH AERIAL CABLE

LIGHTING / AERIAL LINE DETAIL
SCALE: 1" = 1'-0"

LEGEND

- AERIAL CABLE: SAG = 6" UON
- - - CABLE WITHIN FLOAT OR WIRE IN CONDUIT
- PILING OR POWER POLE
- LUMINAIRE: SEE DETAIL
- 120 VOLT POWER PEDESTAL
- DE DEADEND CLEVIS - SEE AERIAL LINE DETAIL NOTE ⑩
- PEC PHOTOELECTRIC CELL - CONNECT TO CONTROL ALL LIGHT FIXTURES.

See C.O. Sheet 4 of 4

- ① WOOD FLOAT
- ② FLOTATION MATERIAL
- ③ 8" x 8" x 2" BLOCK
- ④ 8" x 10" PEDESTAL
- ⑤ PEDESTAL BASE
- ⑥ POWER HEAD W/ METER BASE, CIRCUIT BREAKER & RECEPTACLE
- ⑦ ALL BOLTS 5/8" GALVANIZED
- ⑧ MOUNT PEDESTAL TO FLOAT WITH 1/2" GALVANIZED LAG SCREWS
- ⑨ ITEMS 4, 5, & 6 TO BE CONSTRUCTED OF 6061-T6 MARINE ALUMINUM. UTILIZE STAINLESS STEEL WASHERS WHEN SECURING PEDESTAL TO SUPPORT BLOCK, ⑤
- ⑩ 4" x 4" x 8" Block

"As Built" April, 1984

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HARBOR DESIGN AND CONSTRUCTION	
		Juneau, Harris Harbor Alaska	
ELECTRICAL			
SCALE NOTED	SURVEYED	APPROVED	
DESIGNED BCH	DRAWN TSM	Robert P. Beck	
CHECKED	DATE	James A. Lowell	
PROJECT NUMBER	D19172	SHEET	13 OF 1314