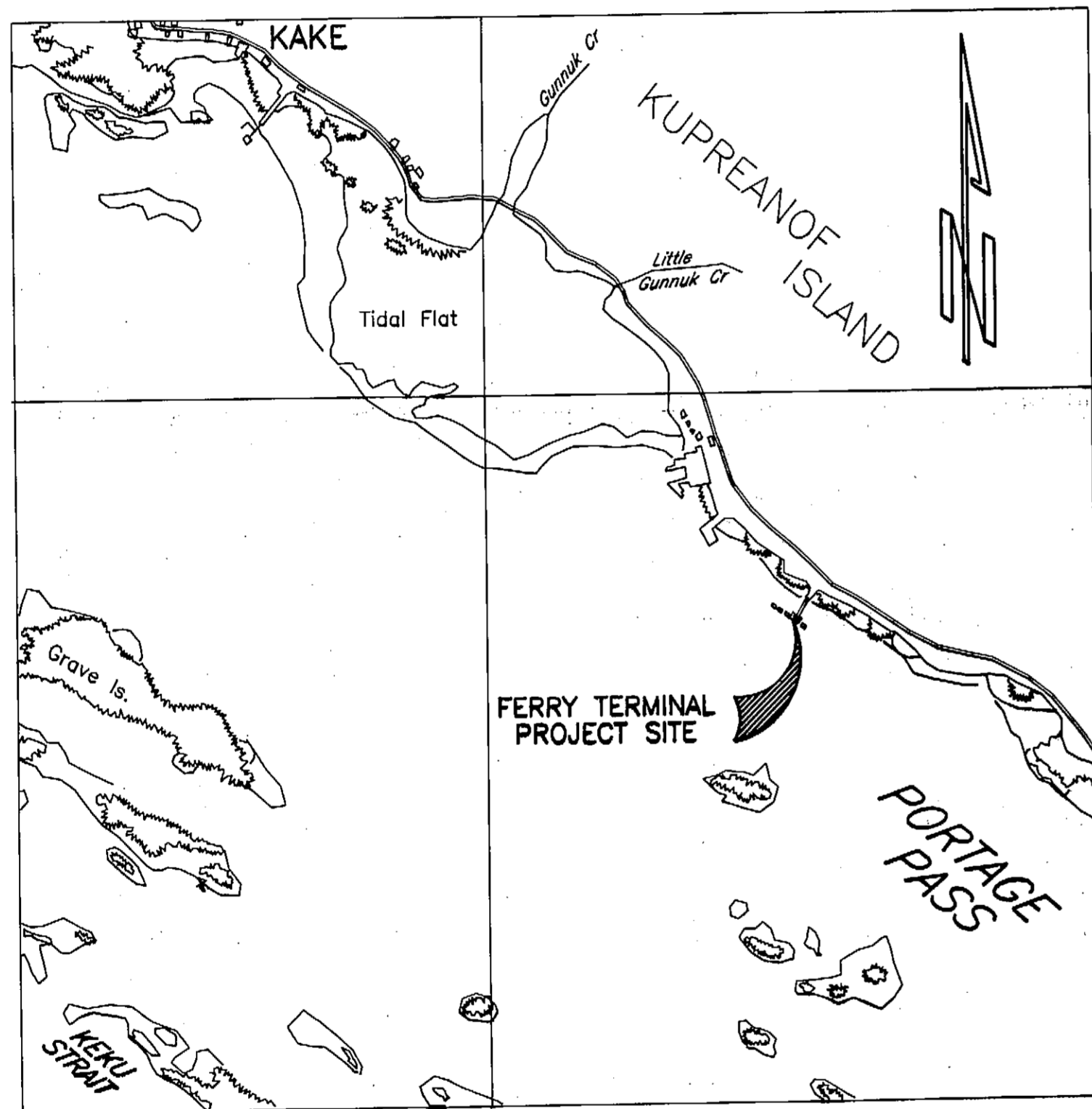
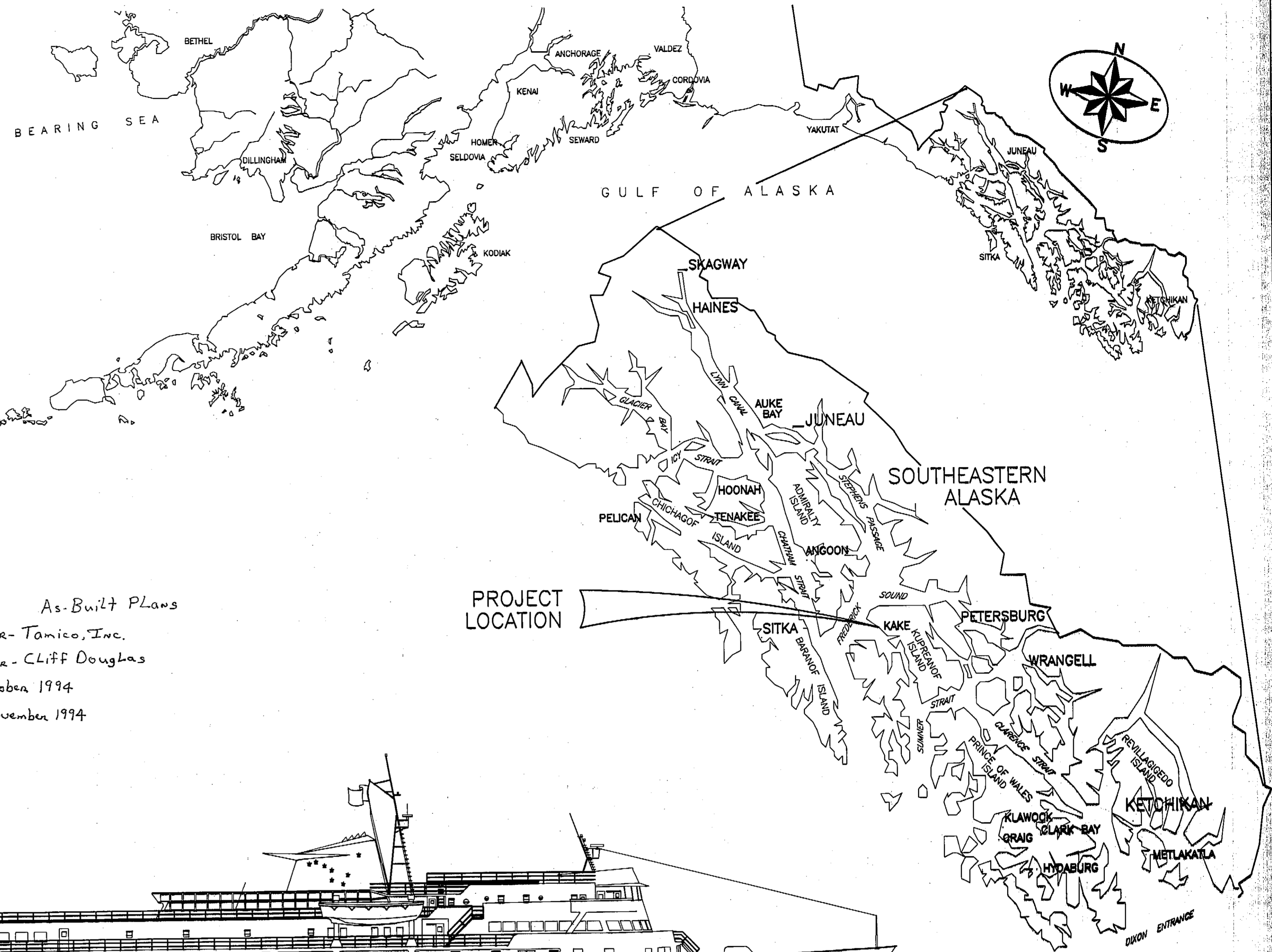


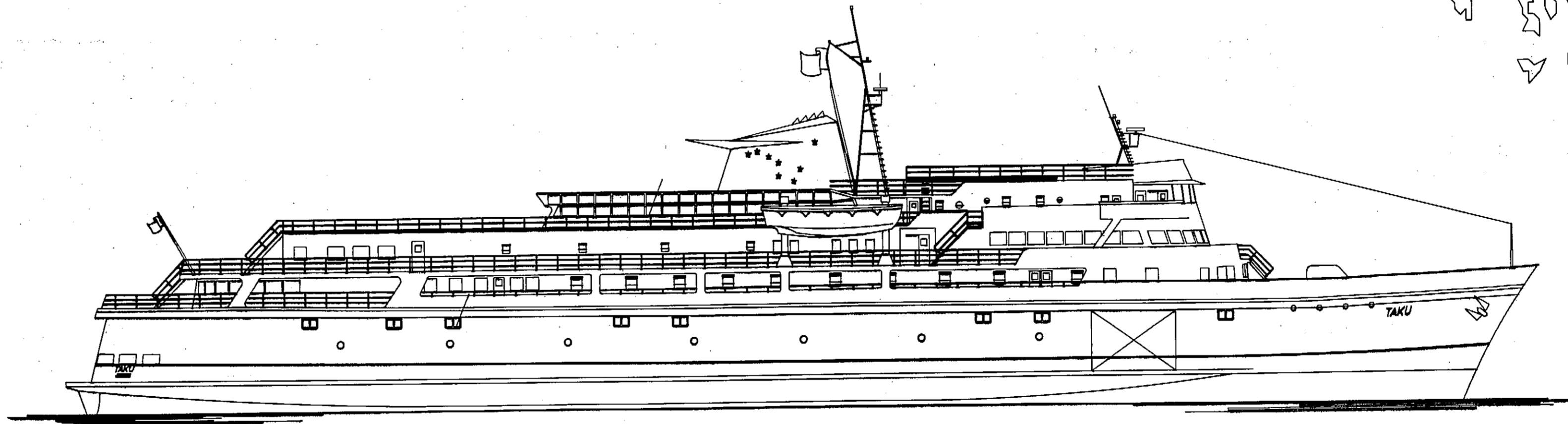
KAKE FERRY TERMINAL RAMP & APRON UPGRADE

PROJECT No. STP-0939(5) & No.75377



KAKE SITE, From: NOAA Chart 17368 (Keku Strait, Northern Part)

As-Built Plans
 Contractor - Tamico, Inc.
 Project Engineer - Cliff Douglas
 Began - October 1994
 Completed - November 1994



INDEX TO SHEETS			
1	TITLE SHEET	10	13 FT. APRON DETAILS
2	GENERAL LAYOUT, QUANTITIES & NOTES	11	AS-BUILT, EXIST. RAMP DETAILS
3	BRIDGE LAYOUT	12	AS-BUILT, EXIST. SUPERSTRUCTURE
4	FRAME DETAILS	13	AS-BUILT, EXIST. RAMP LIFT DETAILS
5	INTERMEDIATE RAMP	14	AS-BUILT, EXIST. BRIDGE/BARGE DETAILS
6	INTERMEDIATE RAMP, DETAILS	15	AS-BUILT, TRANSFER BRIDGE DETAILS
7	HANGER BAR & LOCK-OFF DETAILS	16	ELECTRO-HYDRAULIC SCHEMATIC
8	SIDING DETAILS	17/19	ELECTRICAL POWER E1, E2, E3
9	MISCELLANEOUS DETAILS		

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

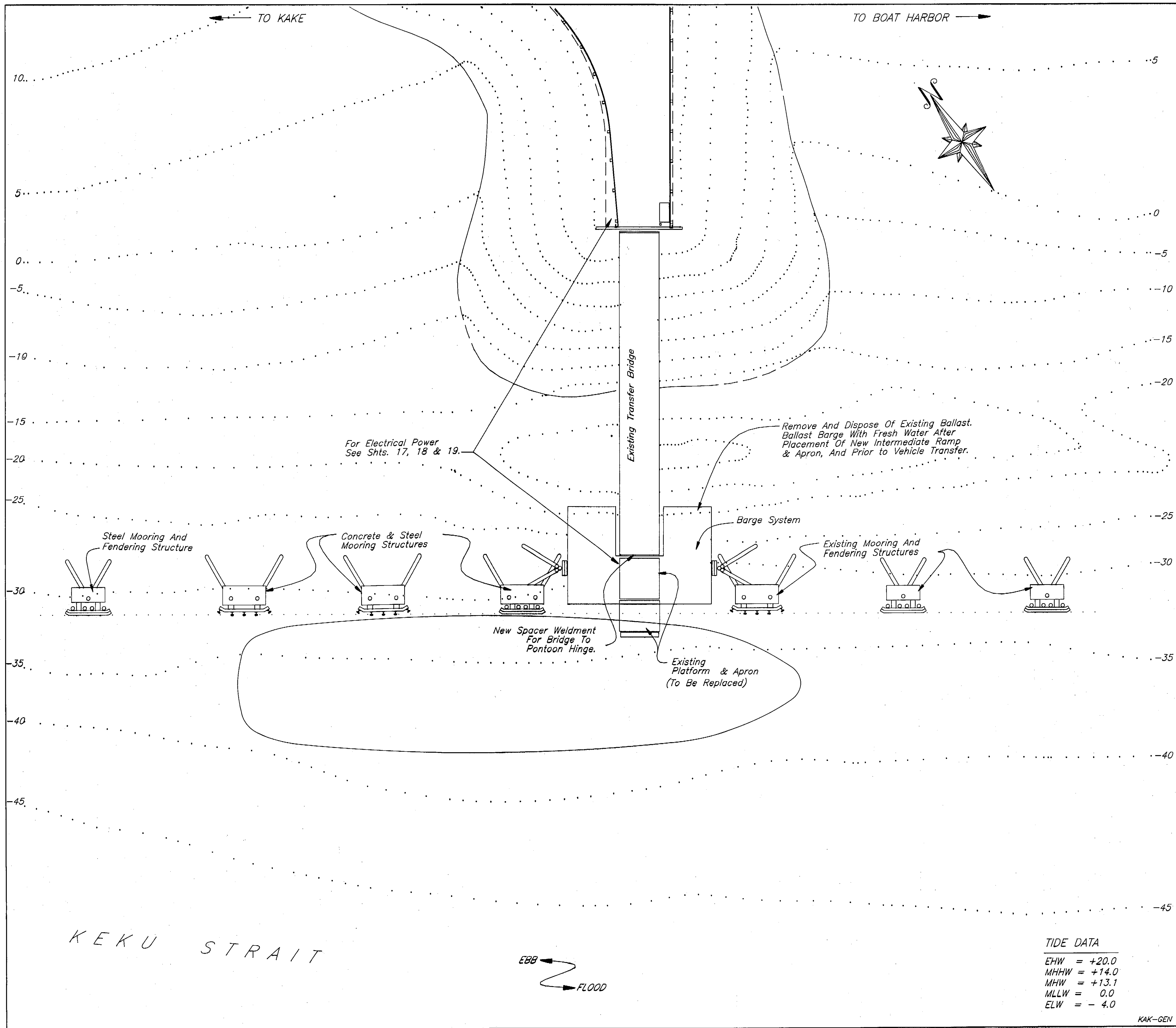
MARINE FACILITIES

APPROVED

Cliff Douglas 5-6-94
 Shore Facilities Engineer

Recommendation for Approval: *[Signature]*
 Group Design Chief

Sheet 1 of 19



ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	ESTIMATED QUANTITIES	UNIT
110	Mobilization	All Req'd	L.S.
111	Temp. Erosion & Pollution Control	All Req'd	C.S.
114	Traffic Maintenance and Control	All Req'd	L.S.
116	Furnish & Maintain Field Office	All Req'd	L.S.
120	DBE & WBE Adjustment	All Req'd	C.S.
201	Removal of Structures and Obstructions	All Req'd	L.S.
302	Intermediate Ramp & Apron	All Req'd	L.S.
501	Electrical Power	All Req'd	L.S.

GENERAL NOTES

Specifications:
Construction: Per Contract Documents for Project No. STP-0939(5) / 75377
Design: Restraint and Mooring Structures: Marine Facilities Design Standards.
Design Loads: Transfer Ramp System: AASHTO 1983 with latest interim specifications

Design Unit Stresses:
Steel:
 A36 $F_y = 20 \text{ Ksi}$
 A252 Gr. 2 $F_y = 19.25 \text{ Ksi}$
 A500 Gr. B $F_y = 25 \text{ Ksi}$
 A572 $F_y = 27 \text{ Ksi}$
 A108 $F_y = 29 \text{ Ksi}$
 A608 Gr. D $F_y = 30 \text{ Ksi}$

Materials: Steel:
 Tube Sections A500 Gr. B
 Pile A252 Gr. 2, A501 or A53, Gr. B, type E or S
 Pipe A53, Gr. B, type E or S
 Stainless Type 302, 304 or 316
 All other shall be A36 or A572 as noted.
 Charpy Group 2 impact requirements shall apply.

Protective Coatings:
Ramp, Apron and Hardware:
 Hot Dip Galvanized After Fabrication

Ballast: Transfer Bridge Pontoon Ballast Shall Be Fresh Potable Water. Ballast Flexifloat Pontoon Units So That Pontoon System Is Approximately Level And Within 1" Of Existing Freeboard.



- Once the Contractor begins improvements the following will remain in force until the project is completed.
 - The Contractor shall conduct his operations so as not to interfere with normal scheduled ferry access or vehicular traffic to and from the existing ferry facilities.
 - Ferry traffic shall have priority over construction activities and it shall be the Contractor's responsibility to coordinate his activities with ferry arrivals and departures.
 - A.M.H.S. personnel will stage traffic, and operate the transfer equipment.
 - Contractor shall provide safe access and lighting for A.M.H.S. personnel to tie up points as required throughout the contract.
- The Contractor shall not stockpile any materials in the existing staging area without written approval from the A.M.H.S. Engineer.

STAMP DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

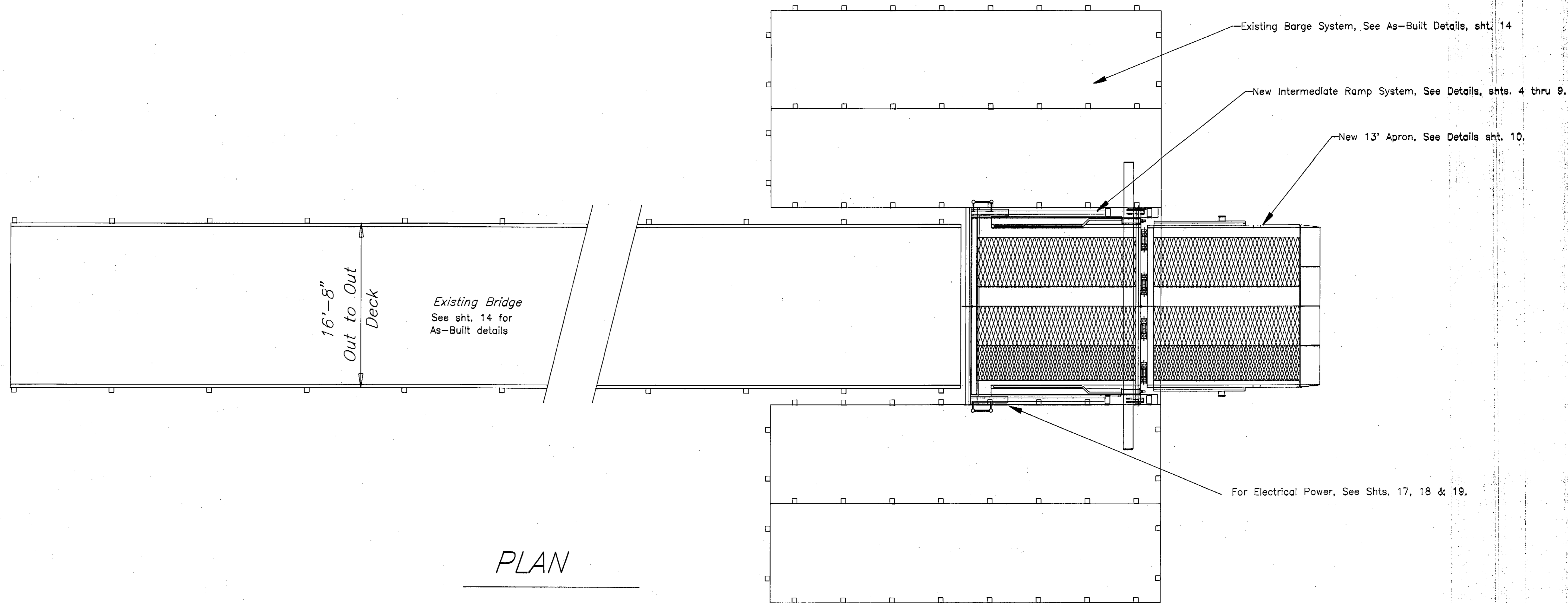
KAKE ALASKA
GENERAL LAYOUT, QUANTITIES AND GENERAL NOTES

DESIGNED STAFF CHECKED BAS DRAWN WIV DATE Jan 1994
 PROJECT NUMBER STP-0939(5)/75377 SHEET 2 OF 19

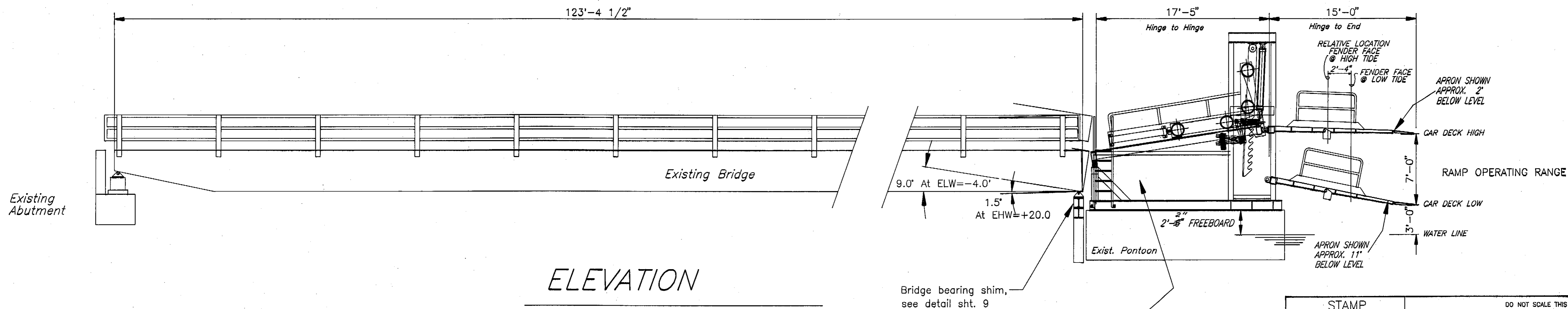
TIDE DATA

EHW	= +20.0
MHHW	= +14.0
MHW	= +13.1
MLLW	= 0.0
ELW	= - 4.0

KAK-GEN 5-6-94



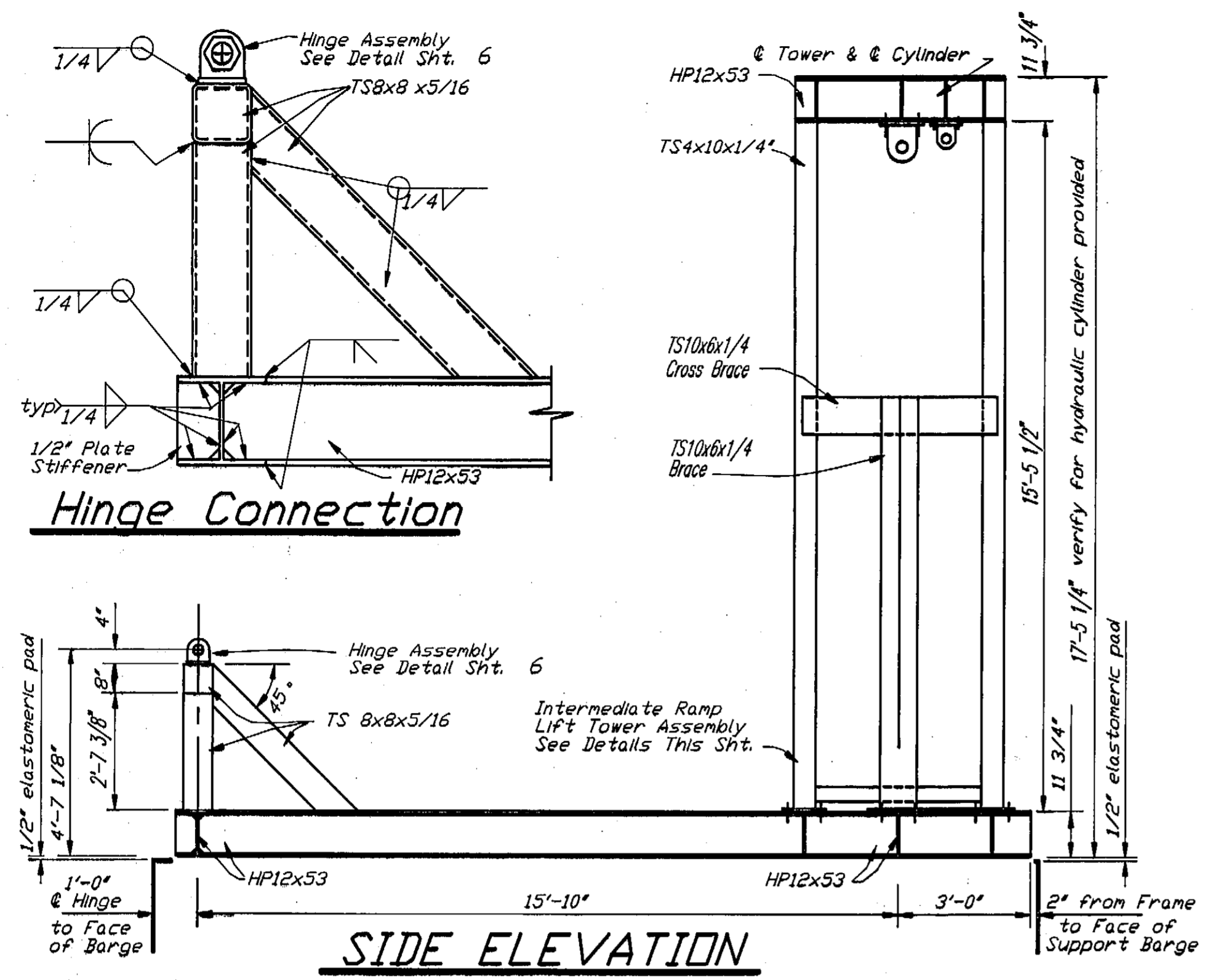
PLAN



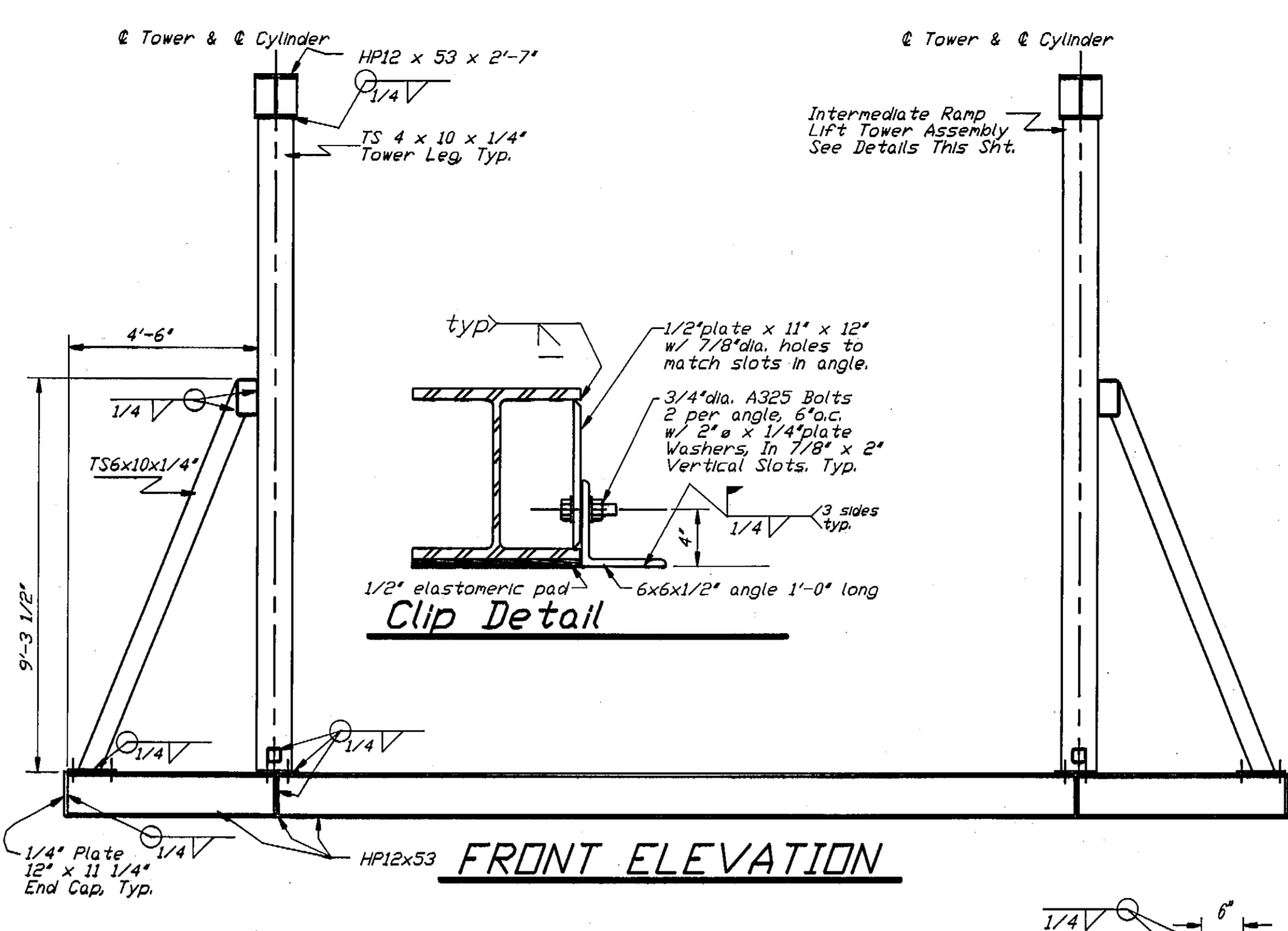
ELEVATION

		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
KAKE		ALASKA	
RAMP/APRON UPGRADE BRIDGE LAYOUT			
DESIGNED: STAFF	CHECKED: BAS	DRAWN: BAS	DATE: JAN 1994
PROJECT NUMBER: STP-0939(5)/75377		SHEET 3	OF 19

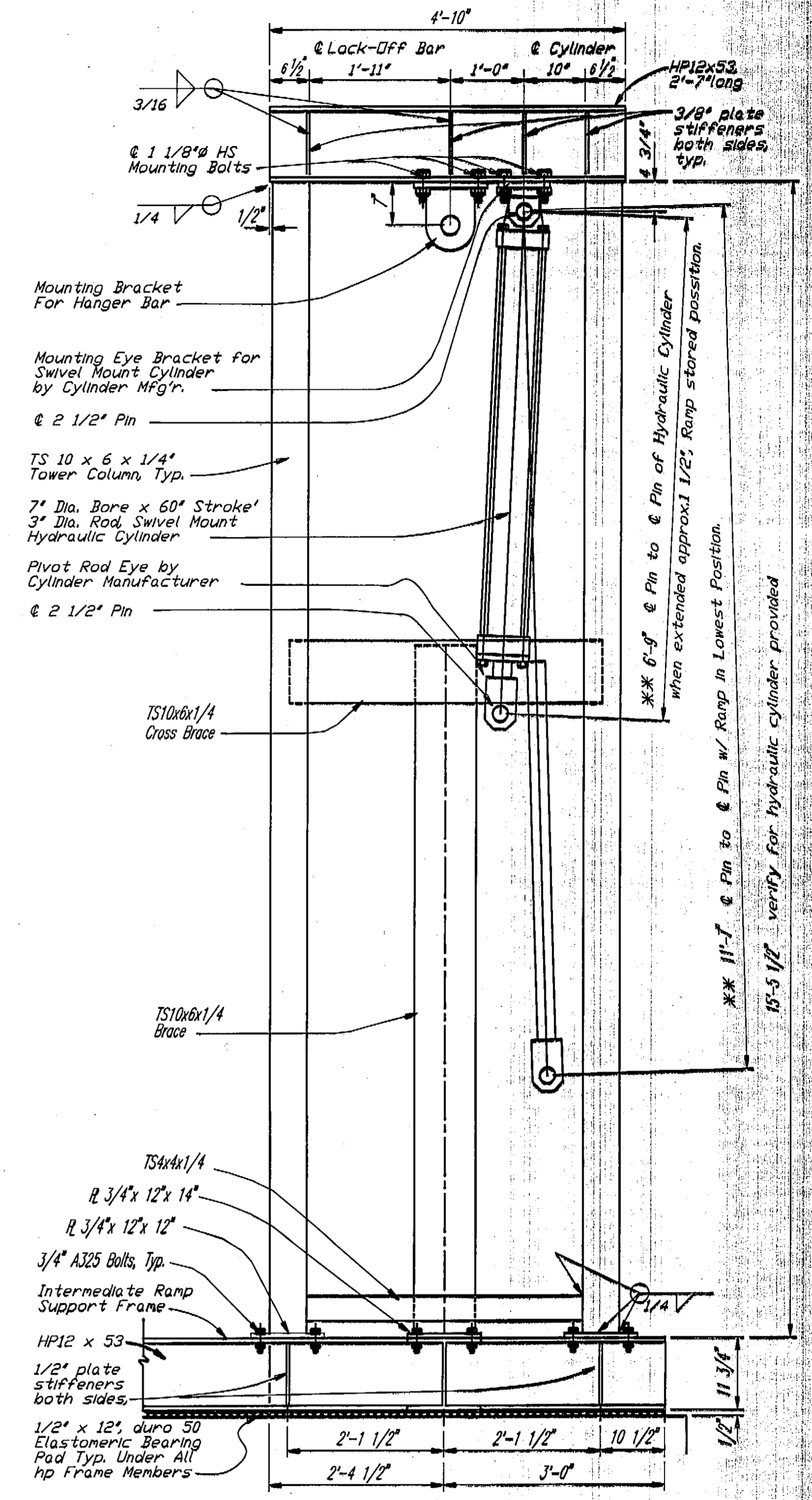
** Dimensions are based on Cunningham Model HS Hydraulic Cylinders (7" dia. bore x 60" stroke, 3" dia. rod) with swivel mount and pivot rod eye by Manufacturer. Cylinder supplied may vary and Ramp Lift Tower height or swivel mount must be adjusted accordingly.



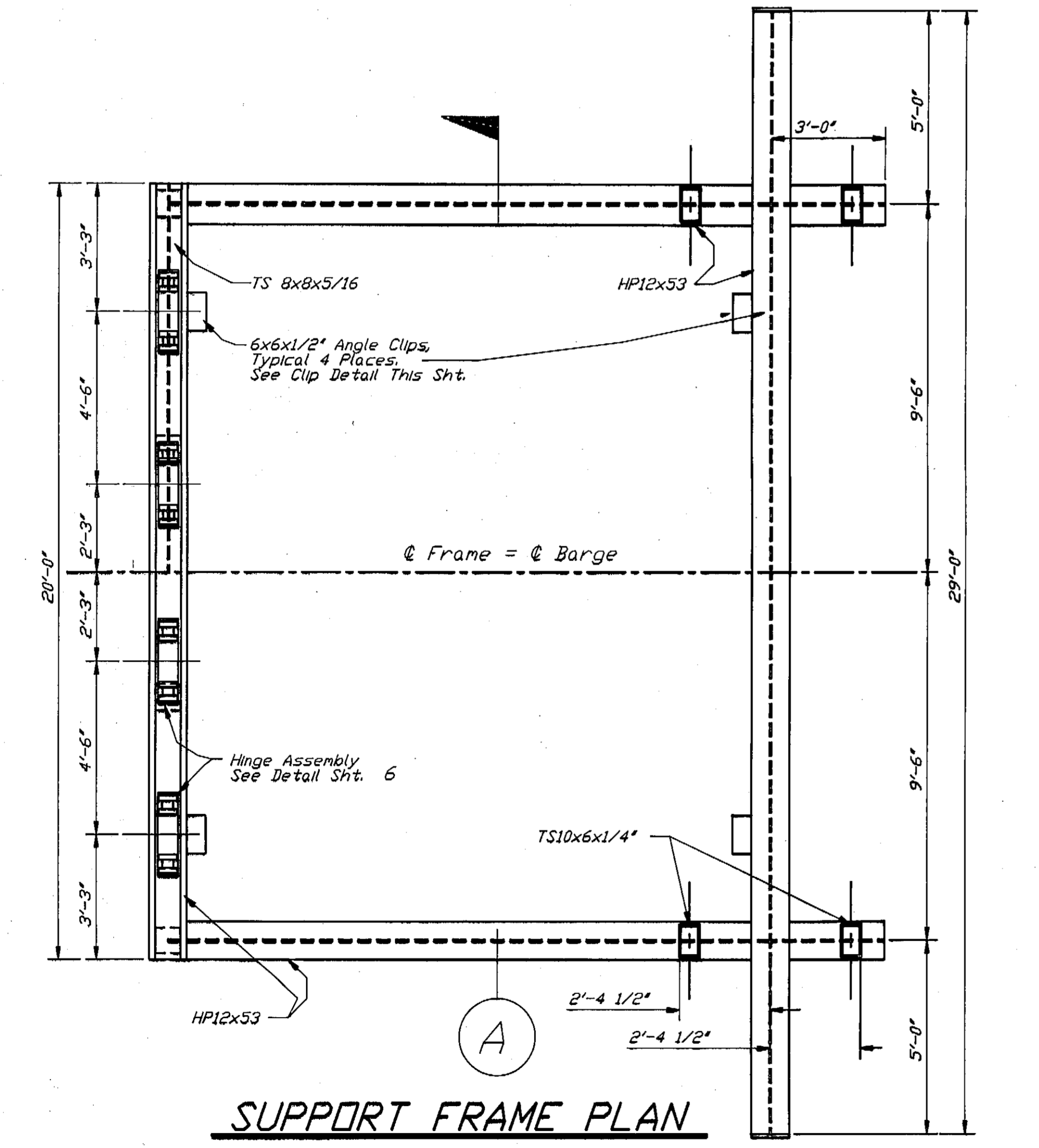
SIDE ELEVATION



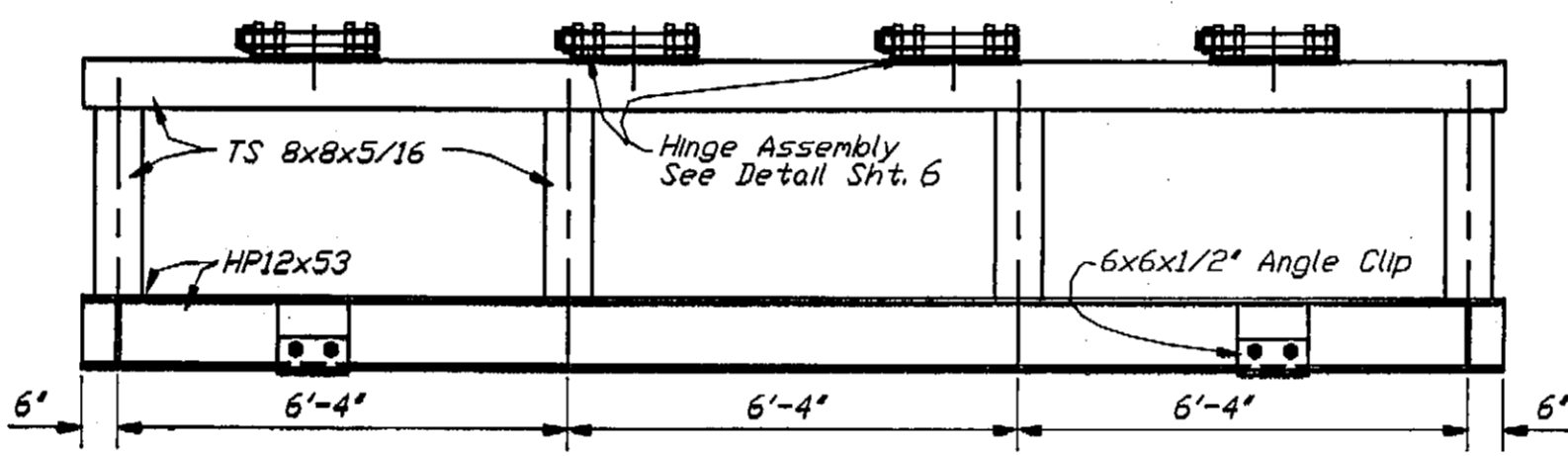
FRONT ELEVATION



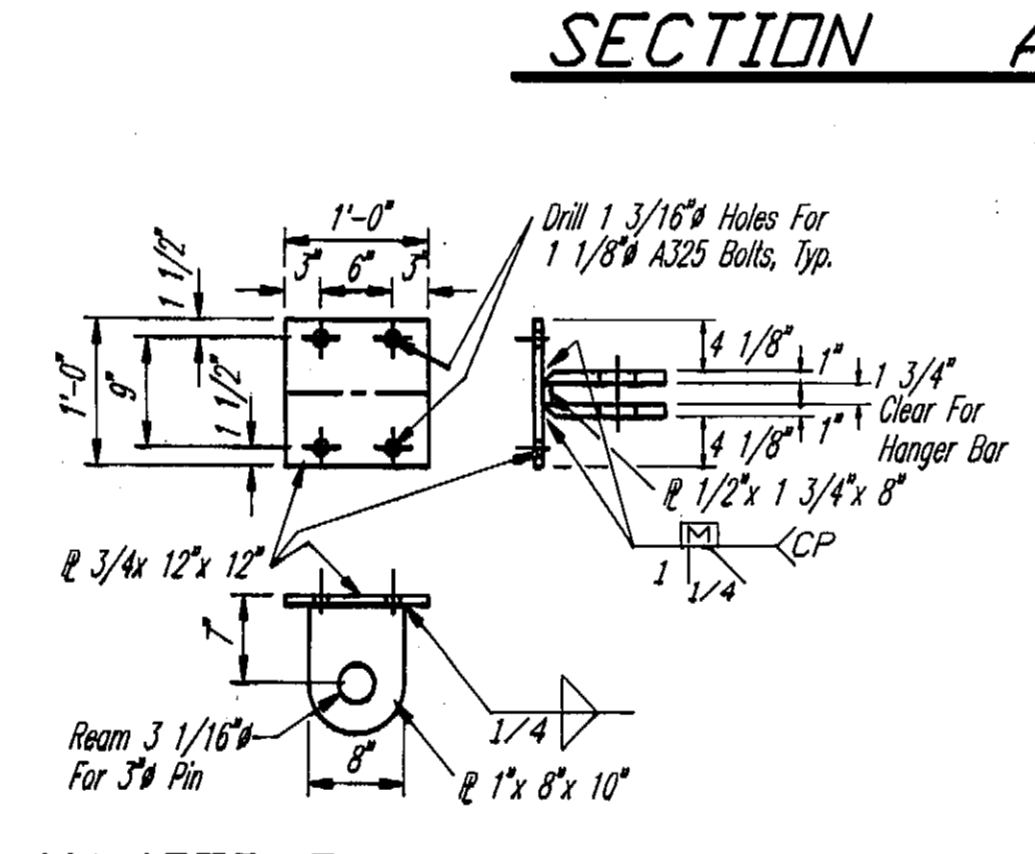
LIFT TOWER DETAILS



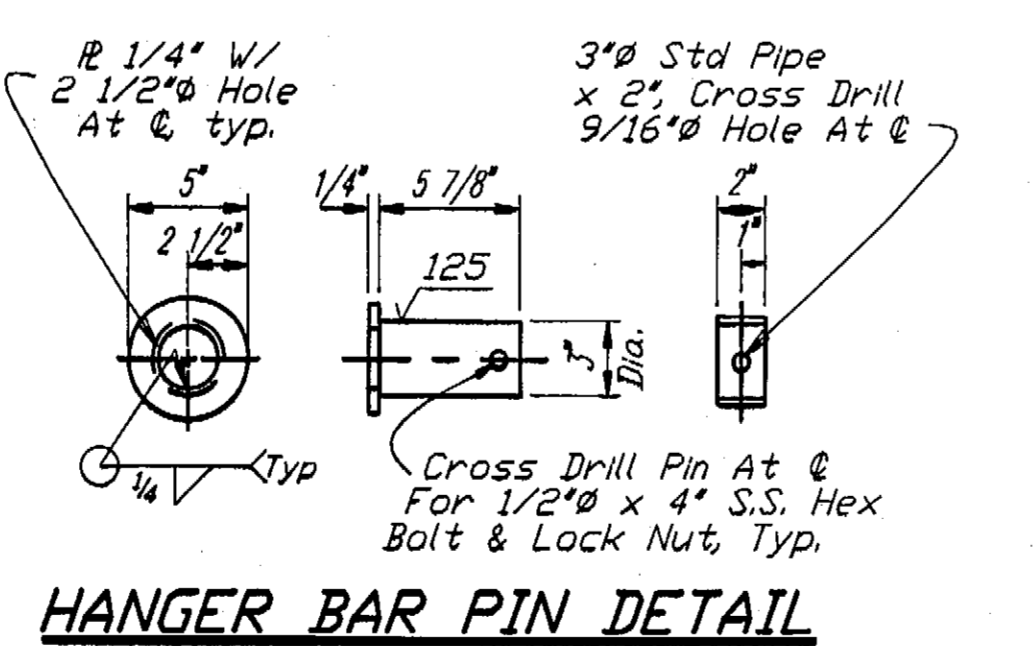
SUPPORT FRAME PLAN



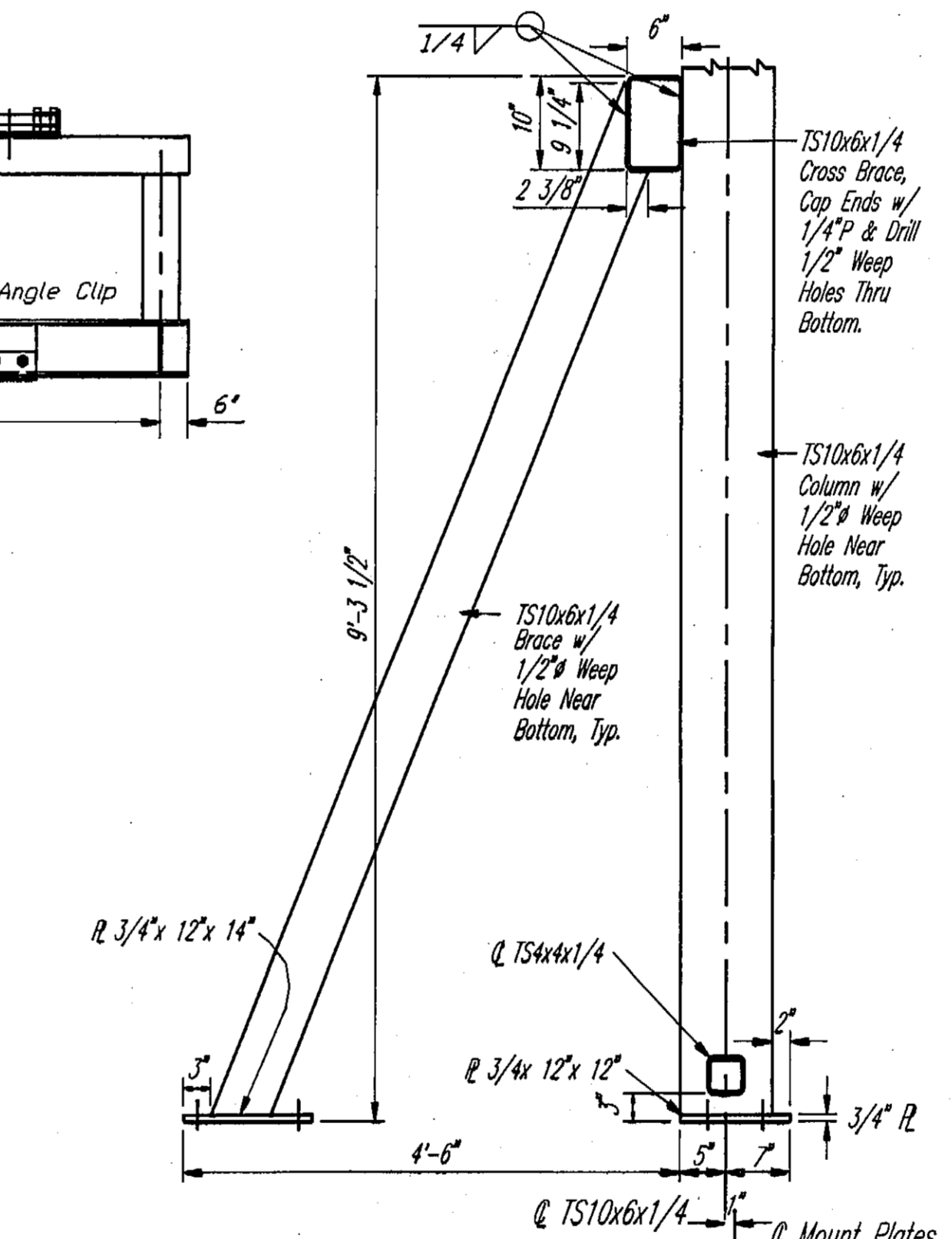
SECTION A



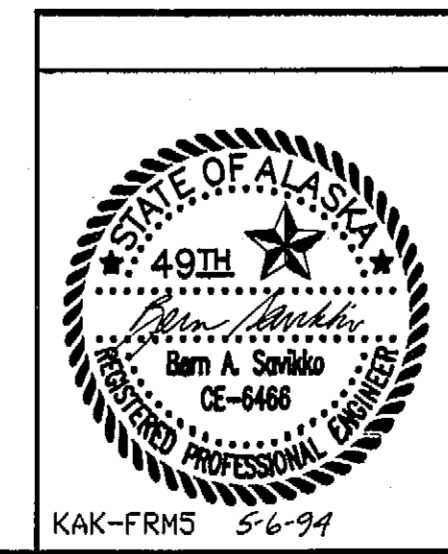
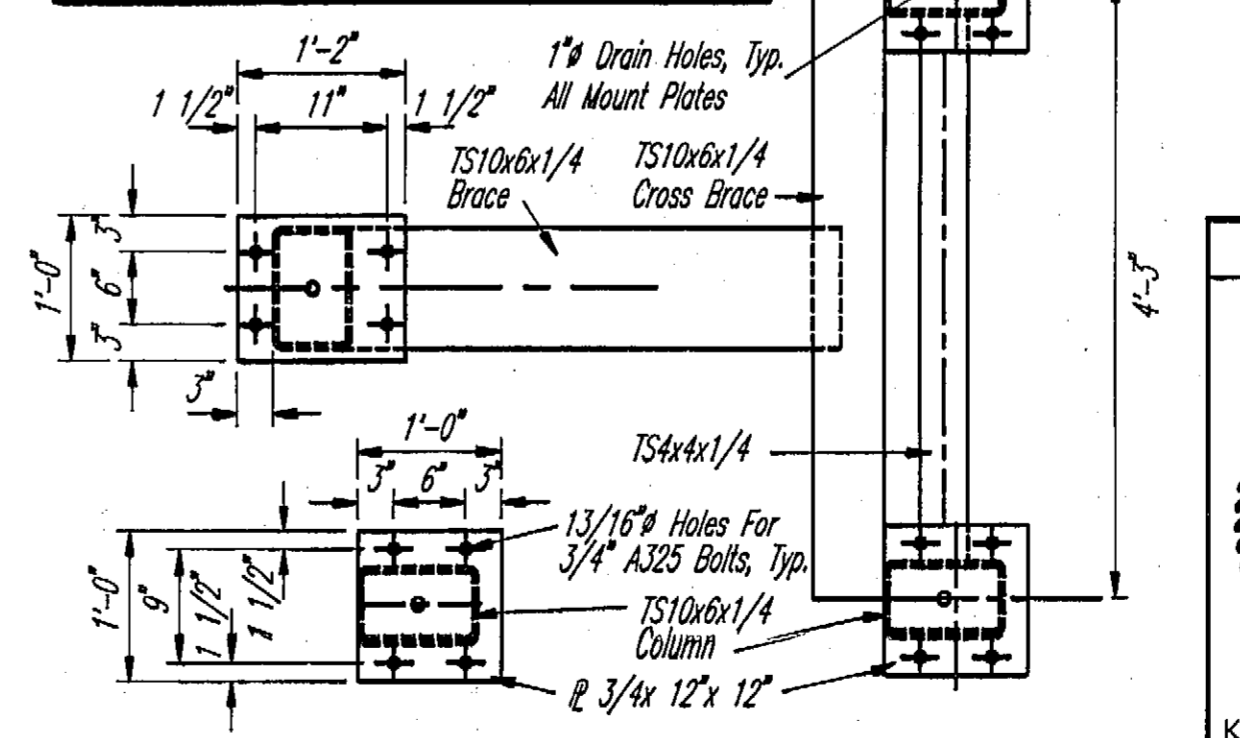
HANGER BAR MOUNT DETAILS



HANGER BAR PIN DETAIL

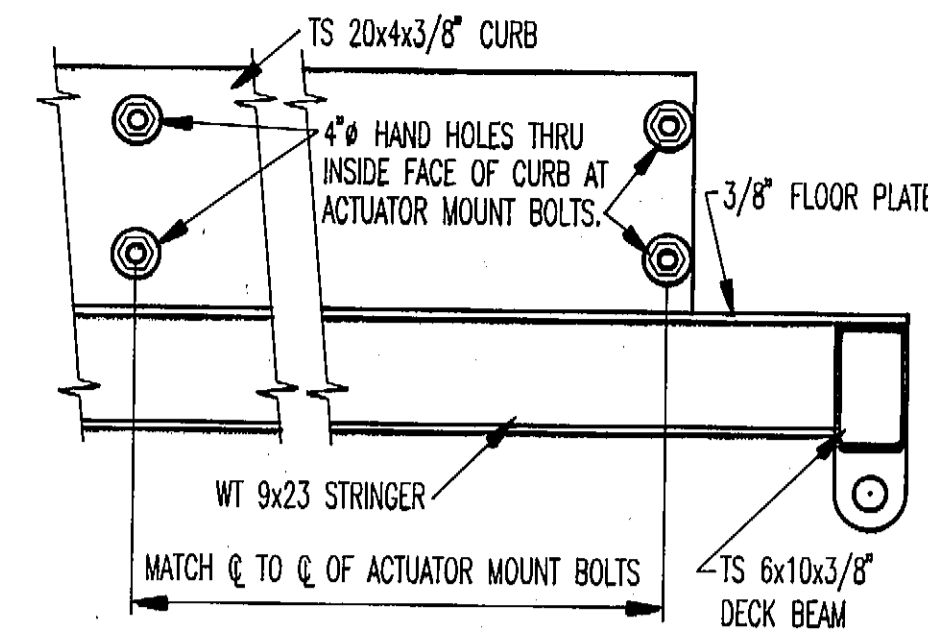


RAMP LIFT TOWER MOUNT DETAILS

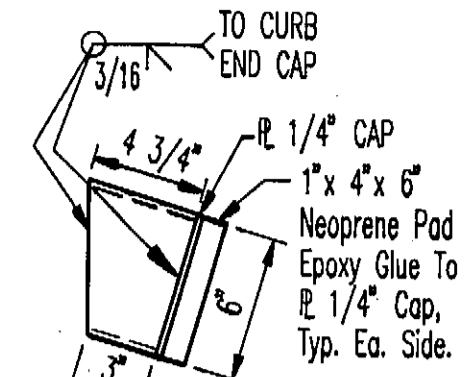


DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAKE	FRAME DETAILS		ALASKA
DESIGNED: Staff	CHECKED: BAS	DRAWN: BN	DATE: APR 1994
PROJECT NUMBER: STP-0939(5)/75377	SHEET 4 OF		19

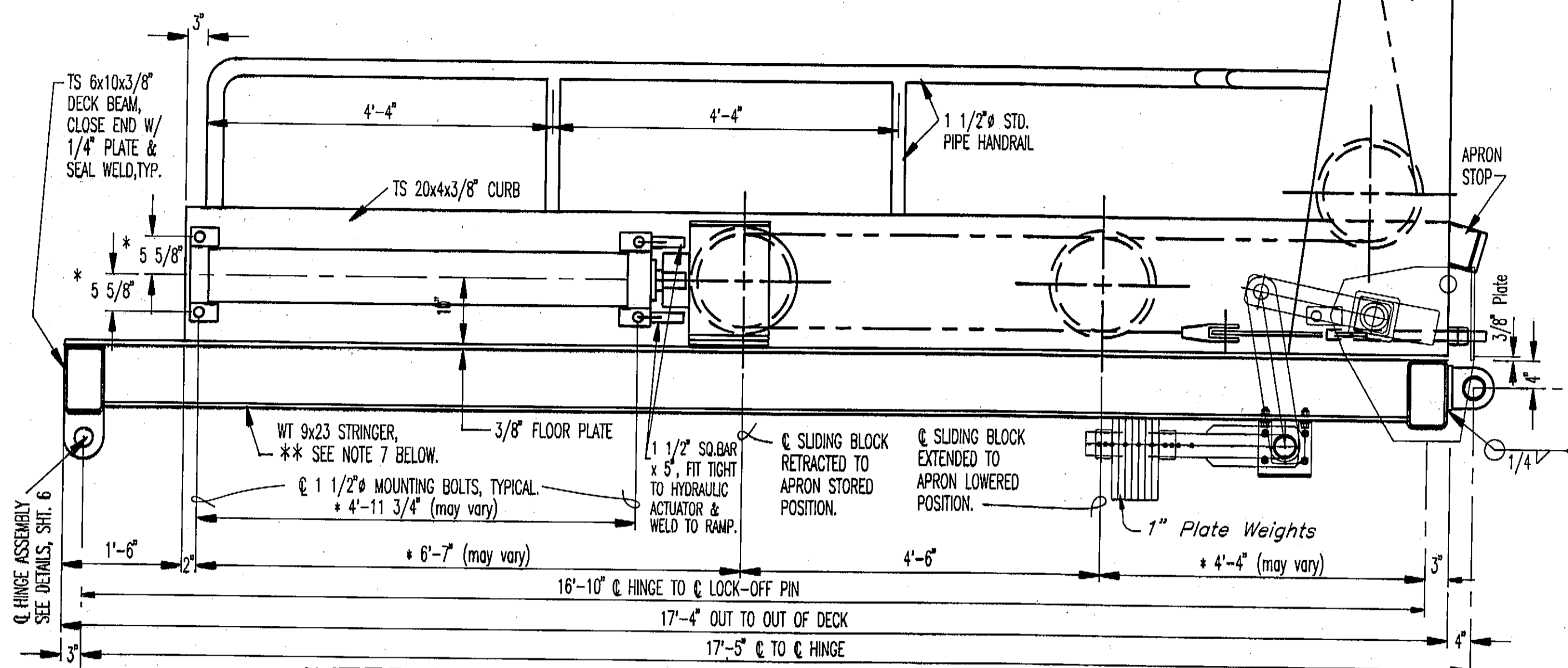
KAK-FRMS 5-6-94



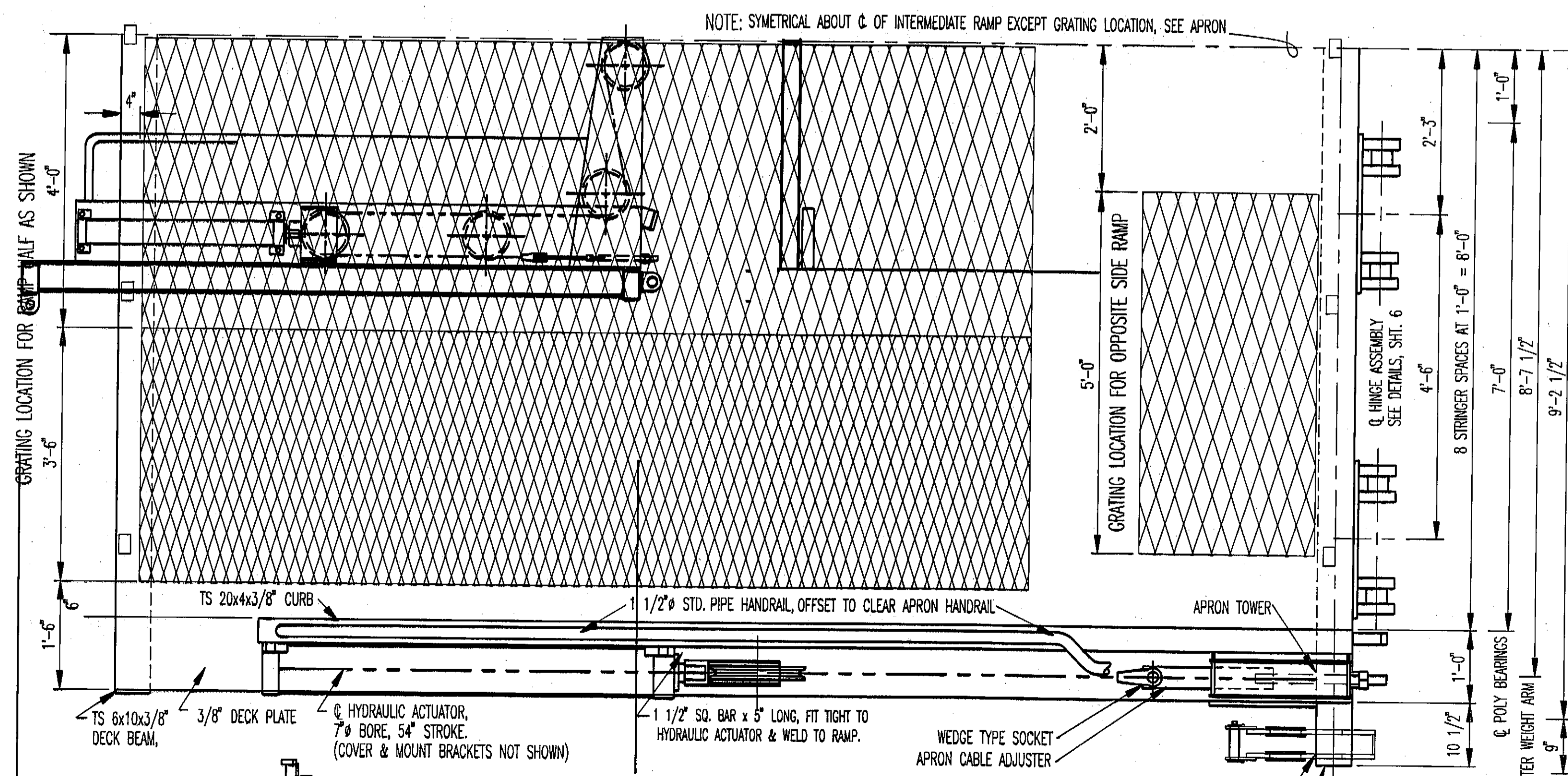
HAND HOLE DETAIL



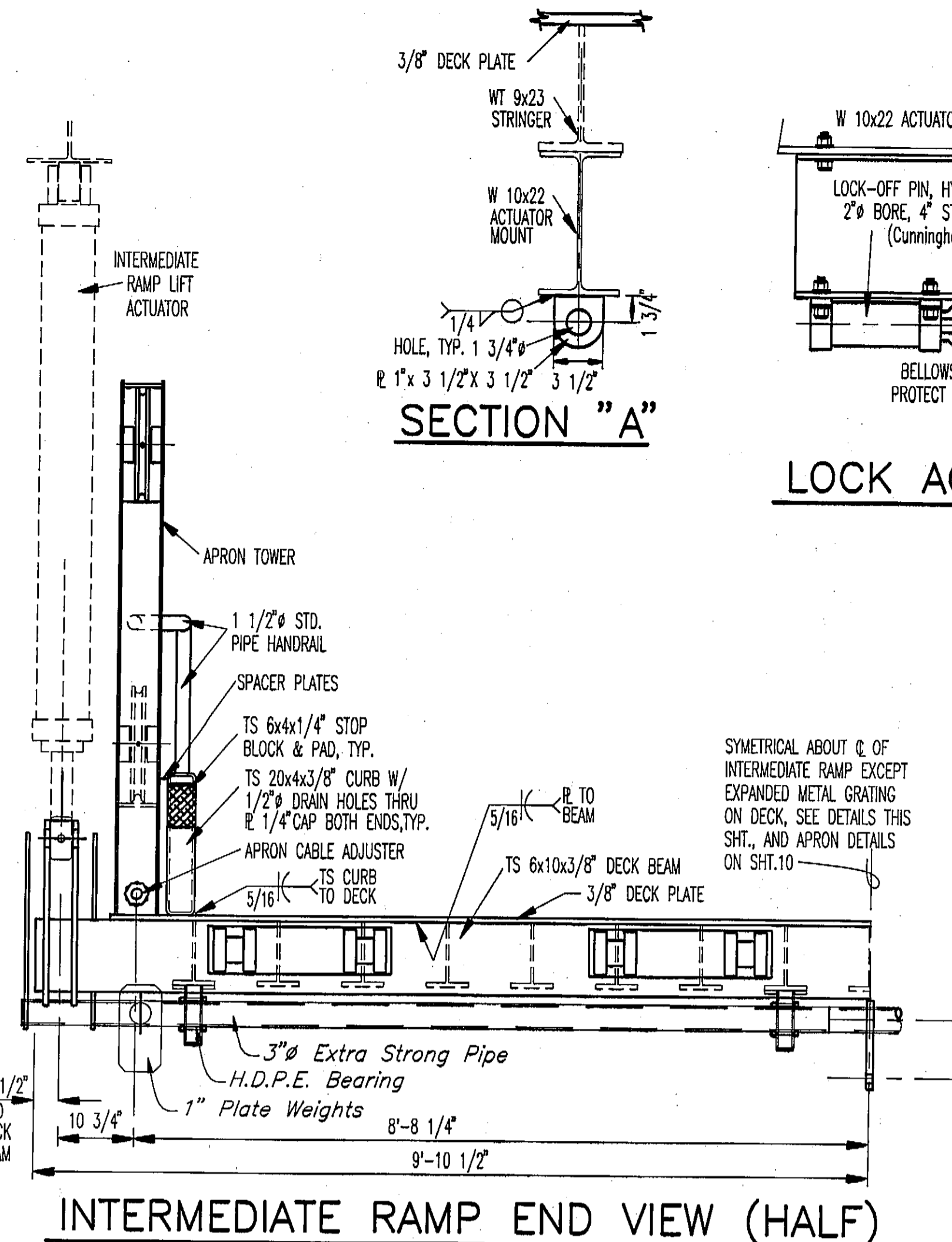
APRON STOP DETAIL



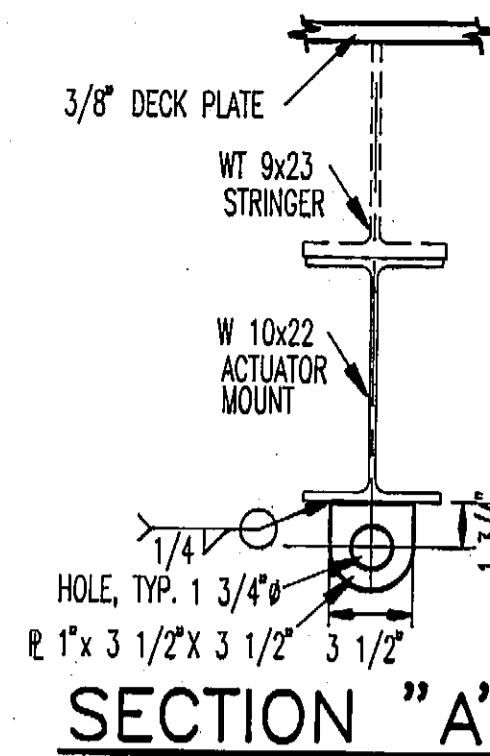
INTERMEDIATE RAMP ELEVATION



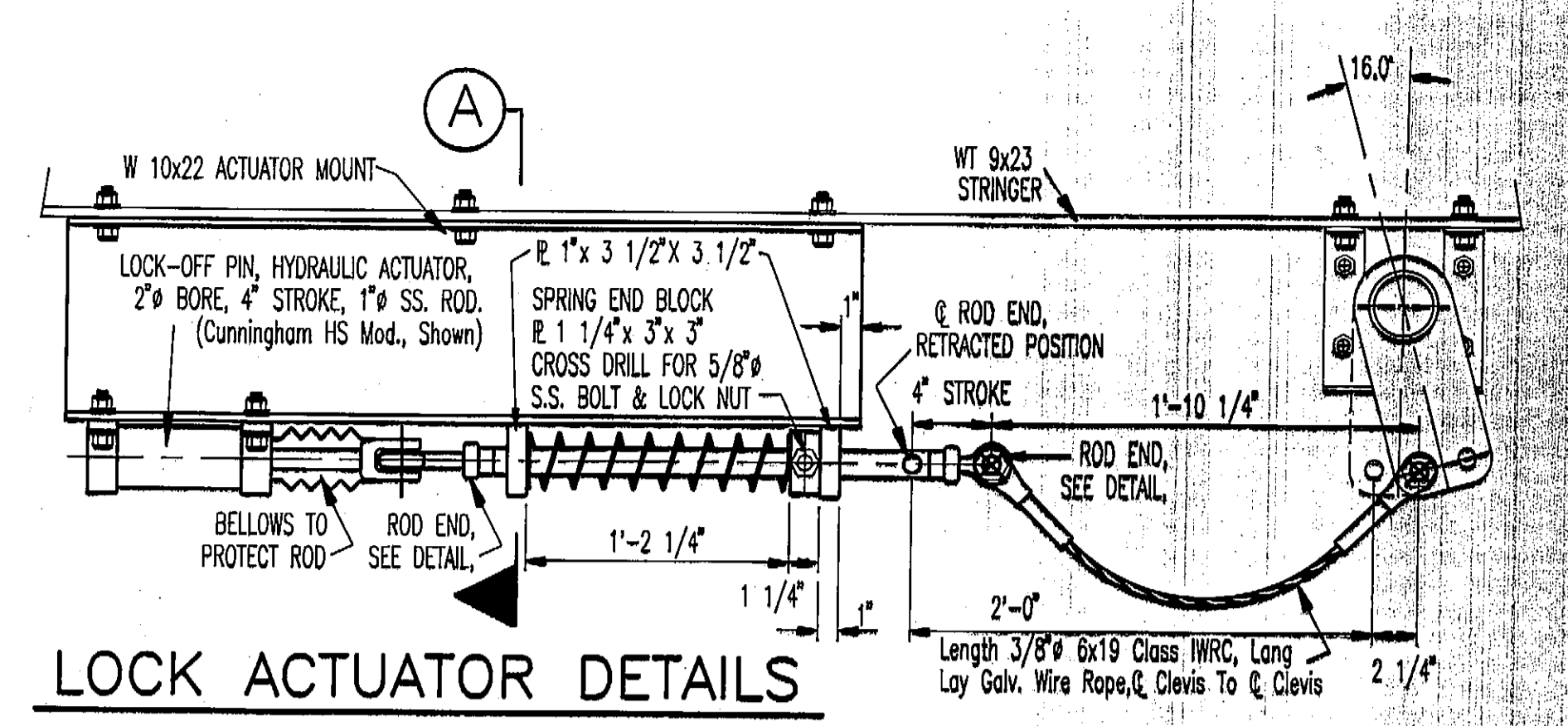
INTERMEDIATE RAMP PLAN VIEW (HALF)



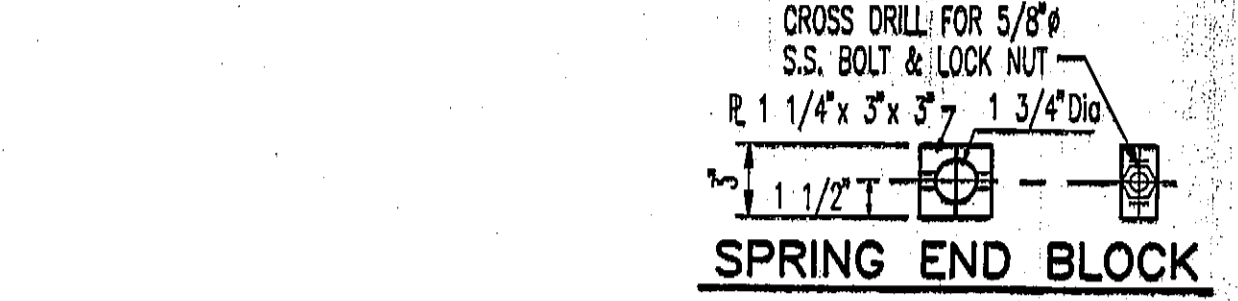
INTERMEDIATE RAMP END VIEW (HALF)



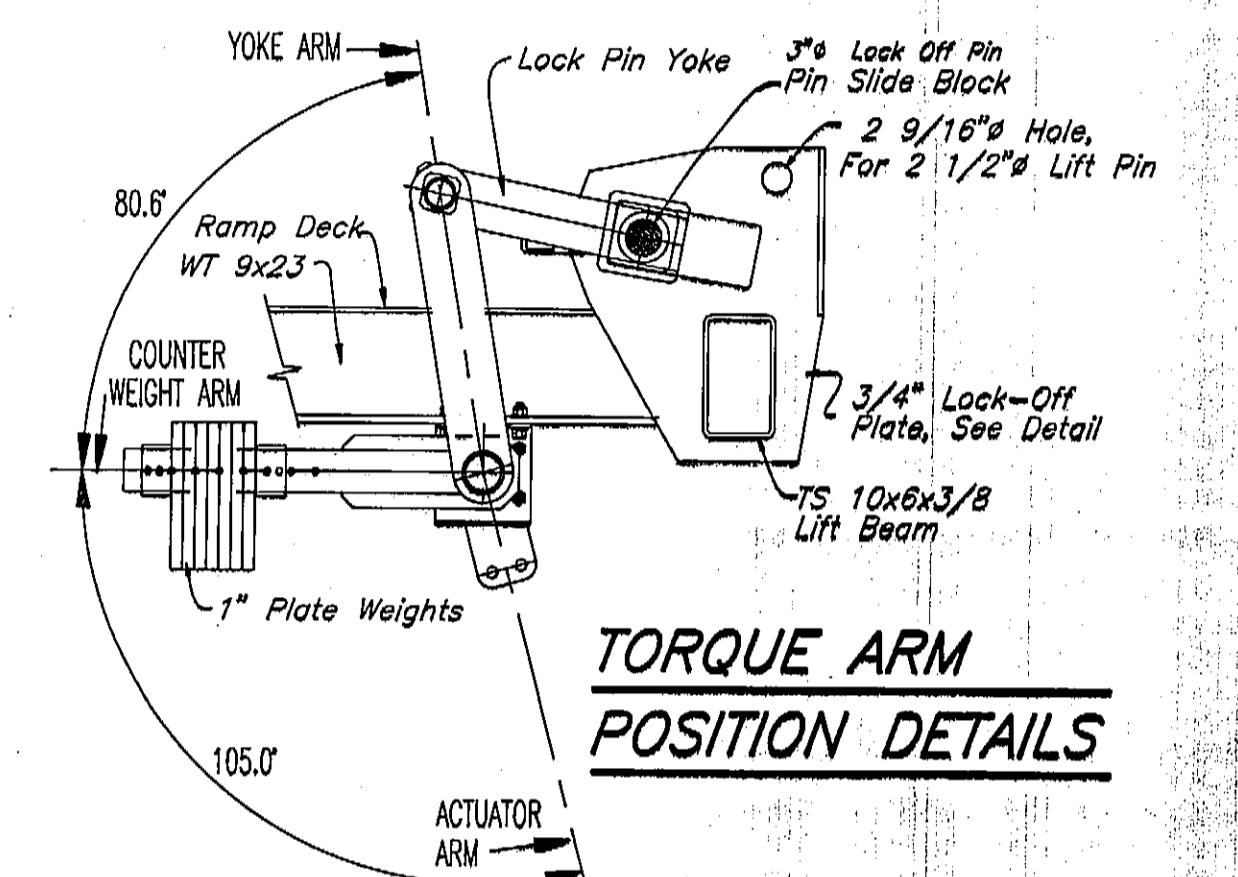
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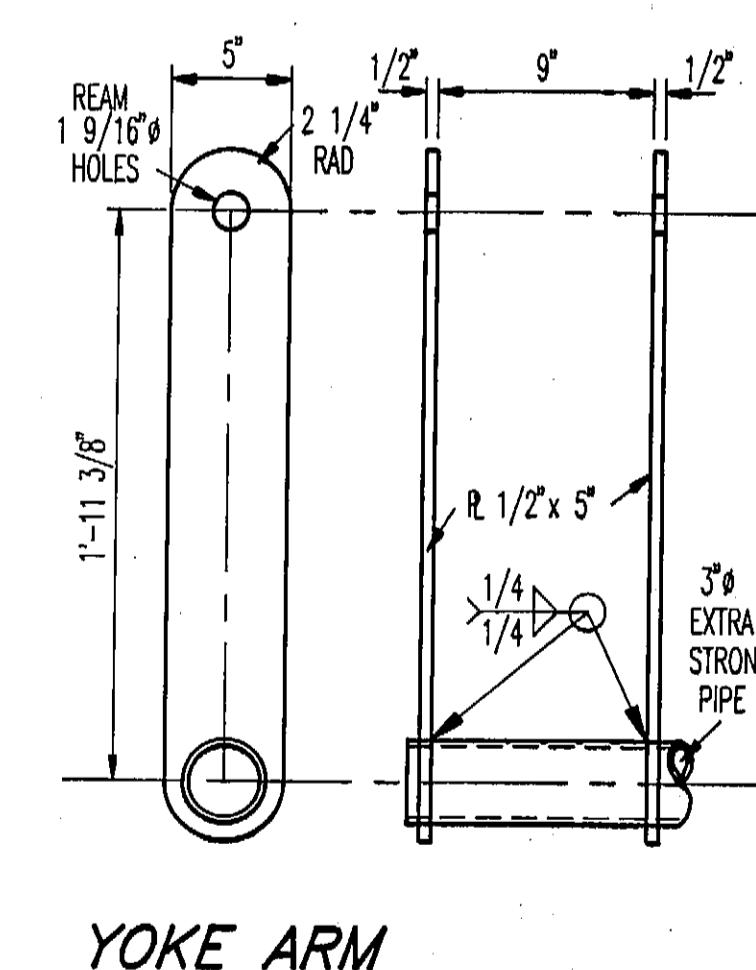
LOCK ACTUATOR DETAILS



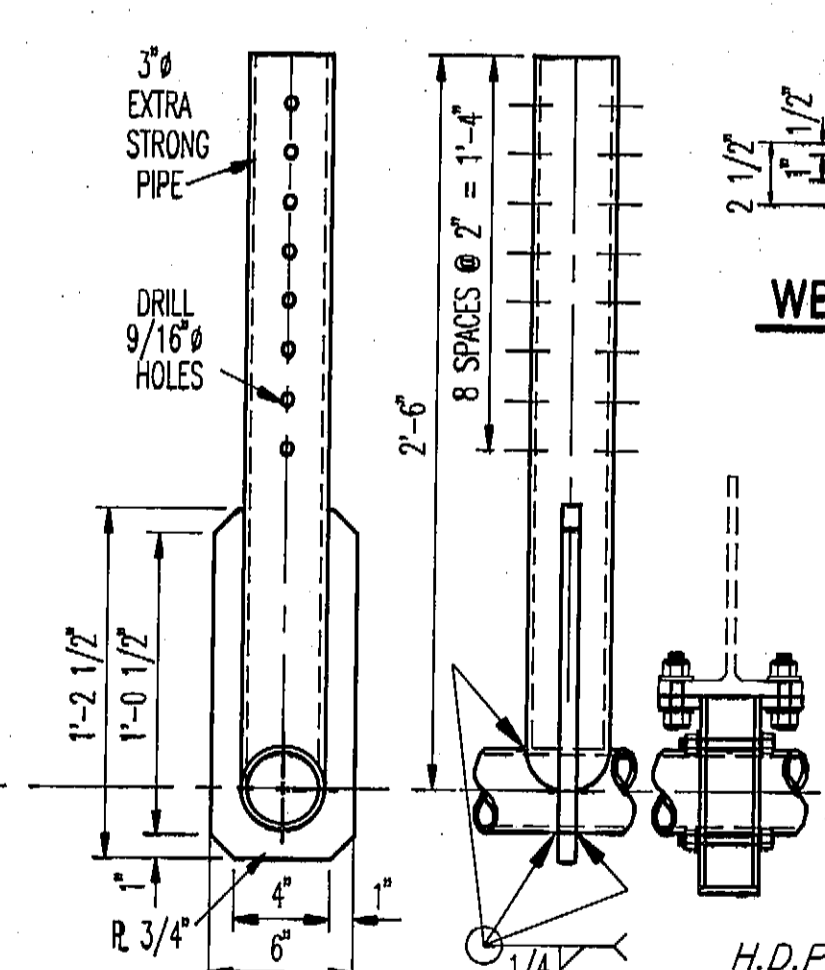
SPRING END BLOCK



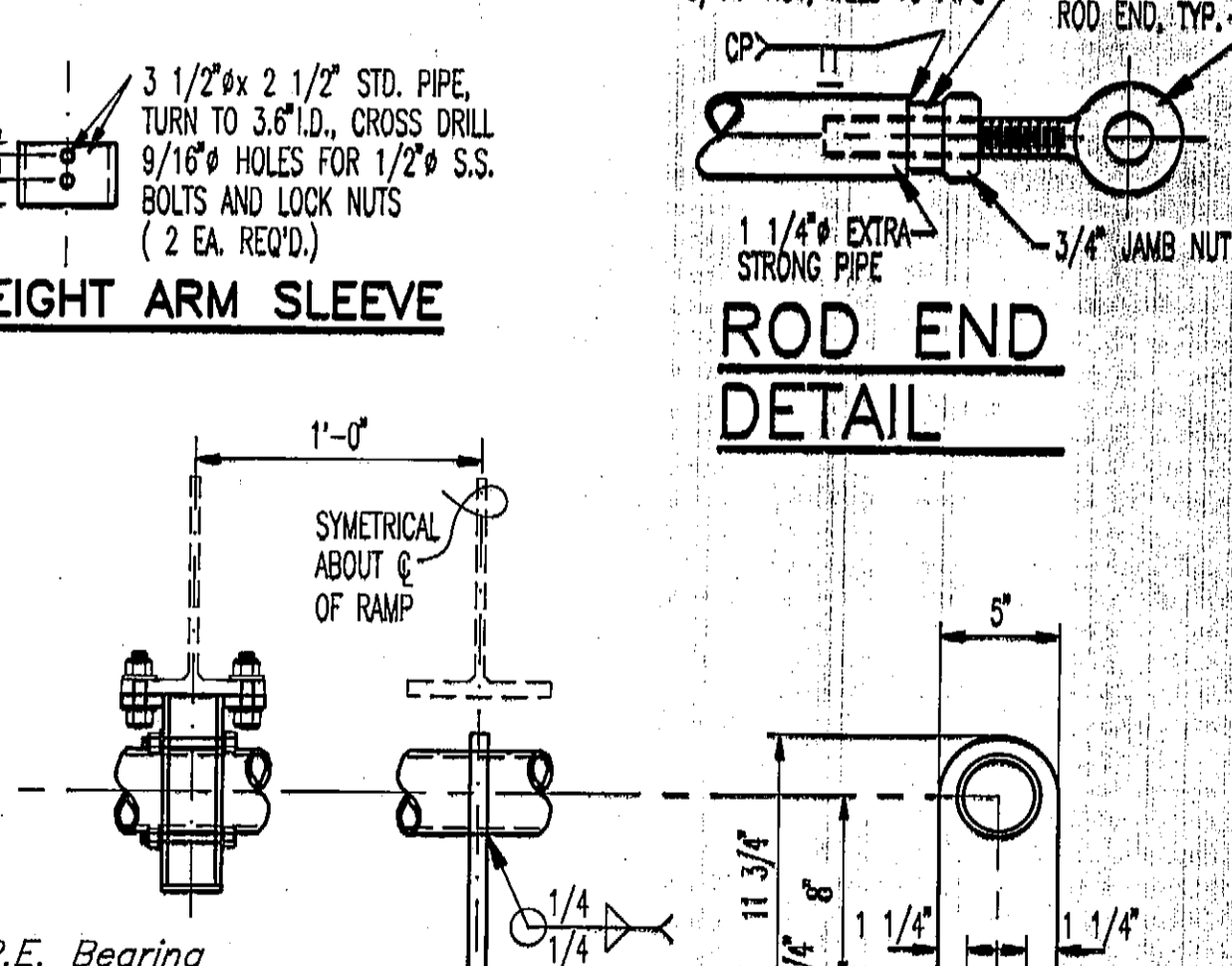
TORQUE ARM POSITION DETAILS



YOKE ARM



COUNTER WEIGHT ARM



ACTUATOR ARM

- NOTES:**
1. Approx. Weight Of Intermediate Ramp = 20,000 lbs.
 2. Compression Spring: 1 13/16" Rod Size, 15" Free length, 10 1/4" Max. Solid Height, 4 3/4" Min. Deflection, Approx. Compression 160 lb/in., Install with 3/4" Precompression.
 3. Close all open ended pipe & tube with 1/4" plate & seal weld.
 4. * Dimensions based on Cunningham Hydraulic Actuator.
 5. Cable shall be 7/8" ϕ , 6x30 flattened strand, lang lay, IWRC, Galvanized and Greased. Breaking strength 35.4 tons.
 6. All Sheaves This Sheet shall be: 16" O.D., 13" Tread Dia., 2 5/16" Hub Width, and 2" Shaft w/ Bronze Bushing.
 7. ** Main Members subject to tensile stress. Charpy Impact Test Required, See Specifications.

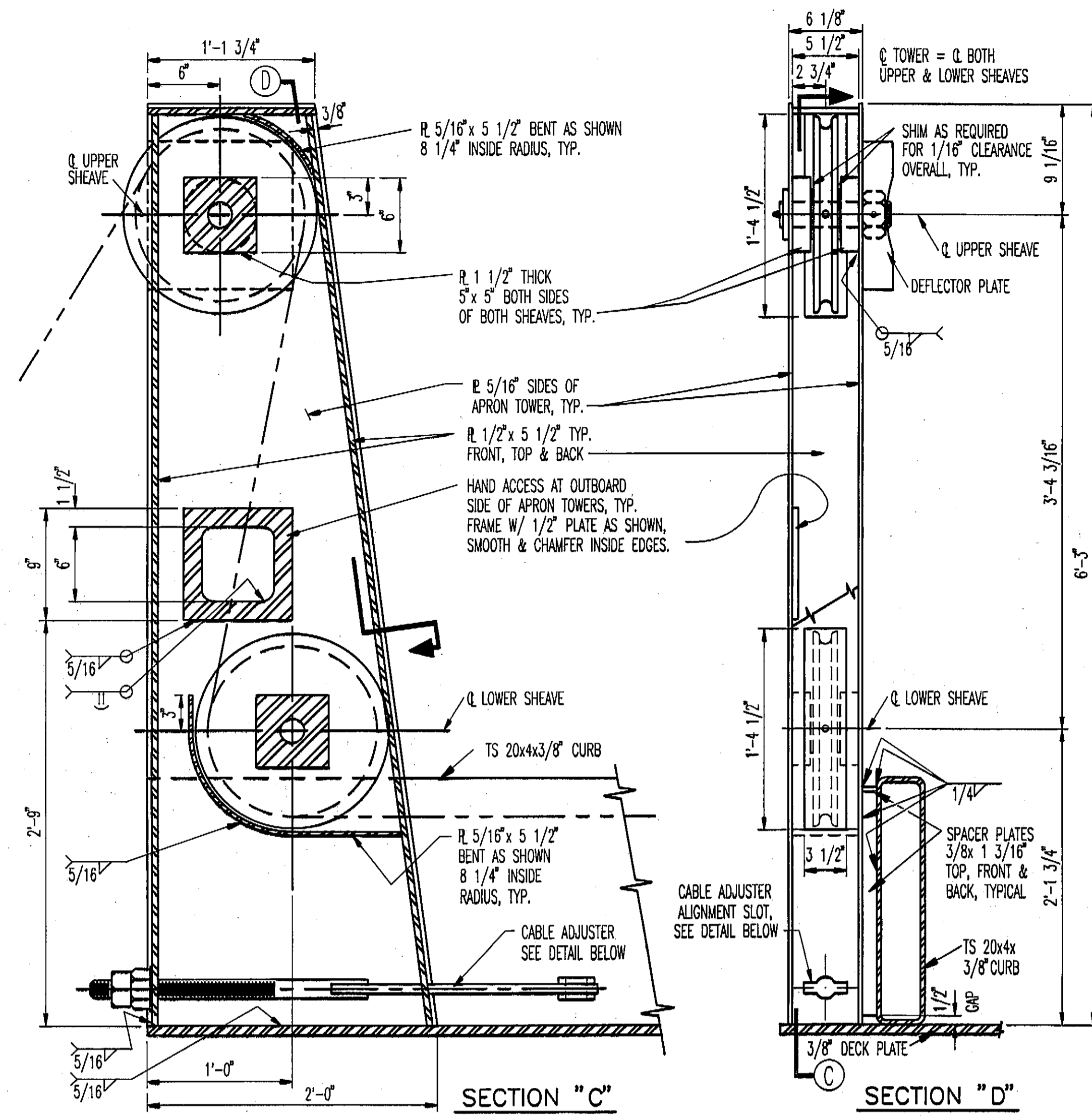
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

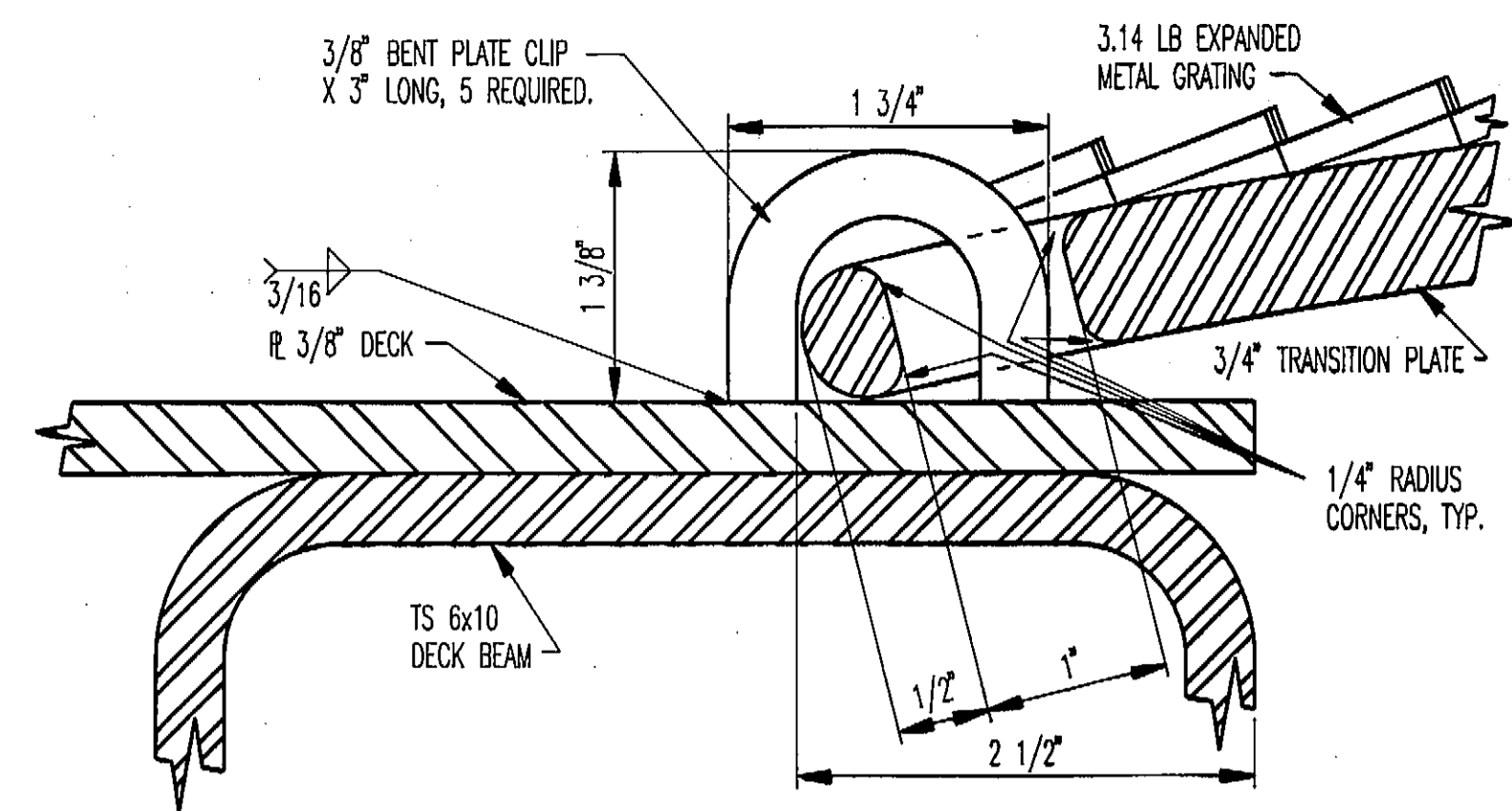
KAKE ALASKA
INTERMEDIATE RAMP

DESIGNED: STAFF CHECKED: BAS DRAWN: BN DATE: JAN. 1994
PROJECT NUMBER: STP-0939(5) 75377 SHEET 5 OF 19

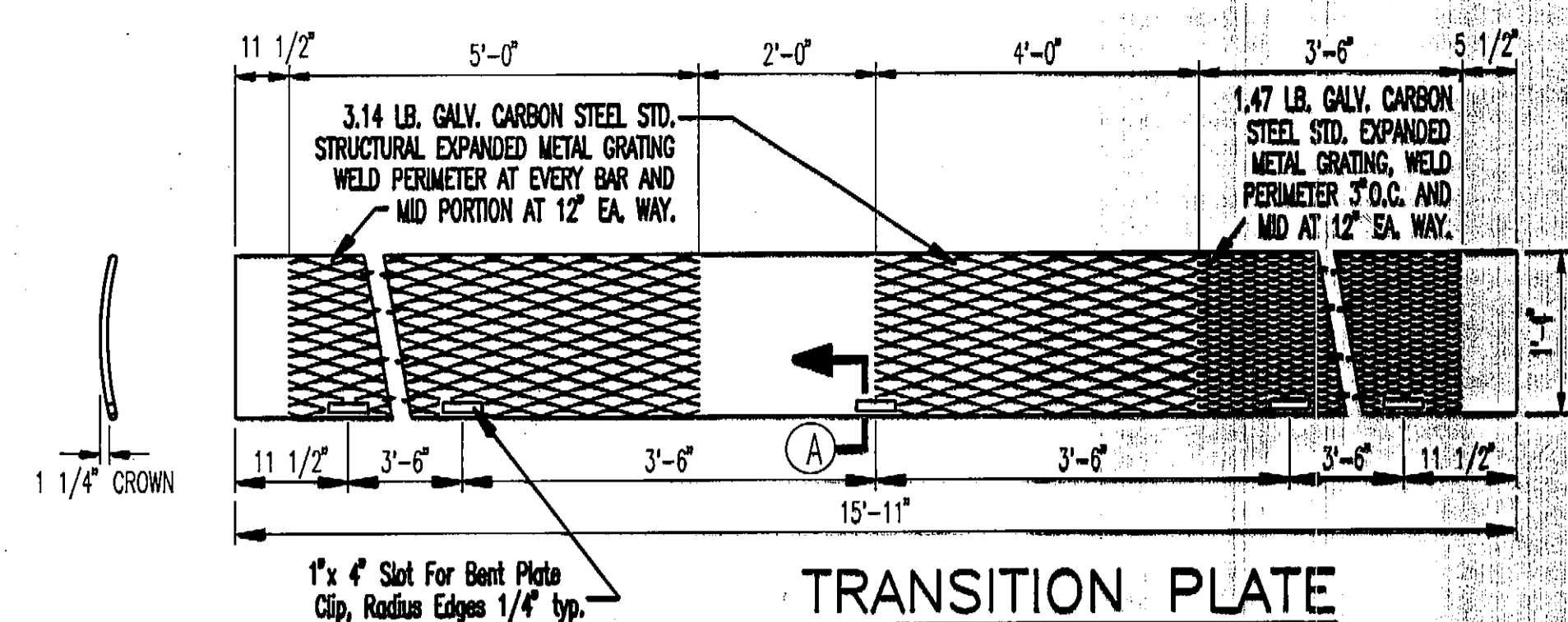
5-6-94



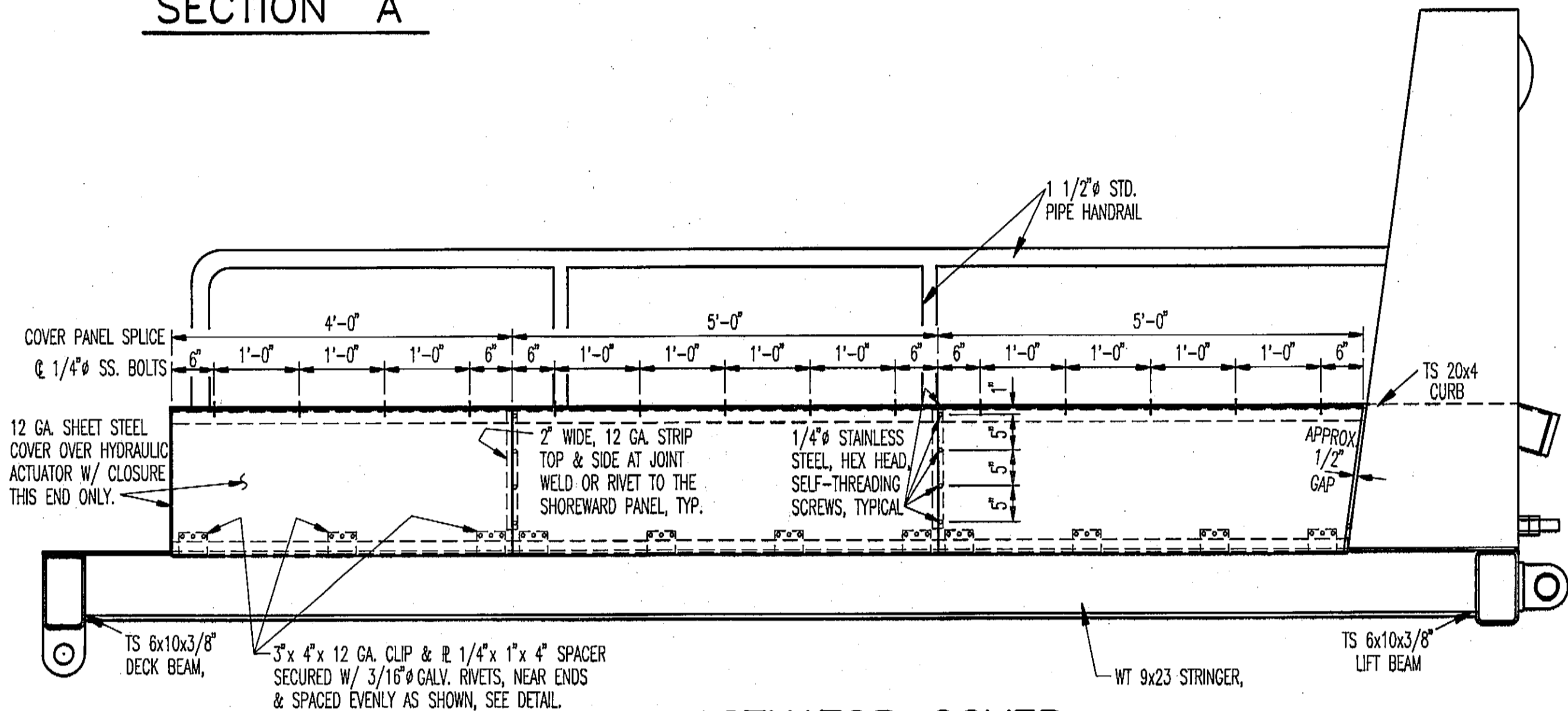
APRON TOWER DETAILS



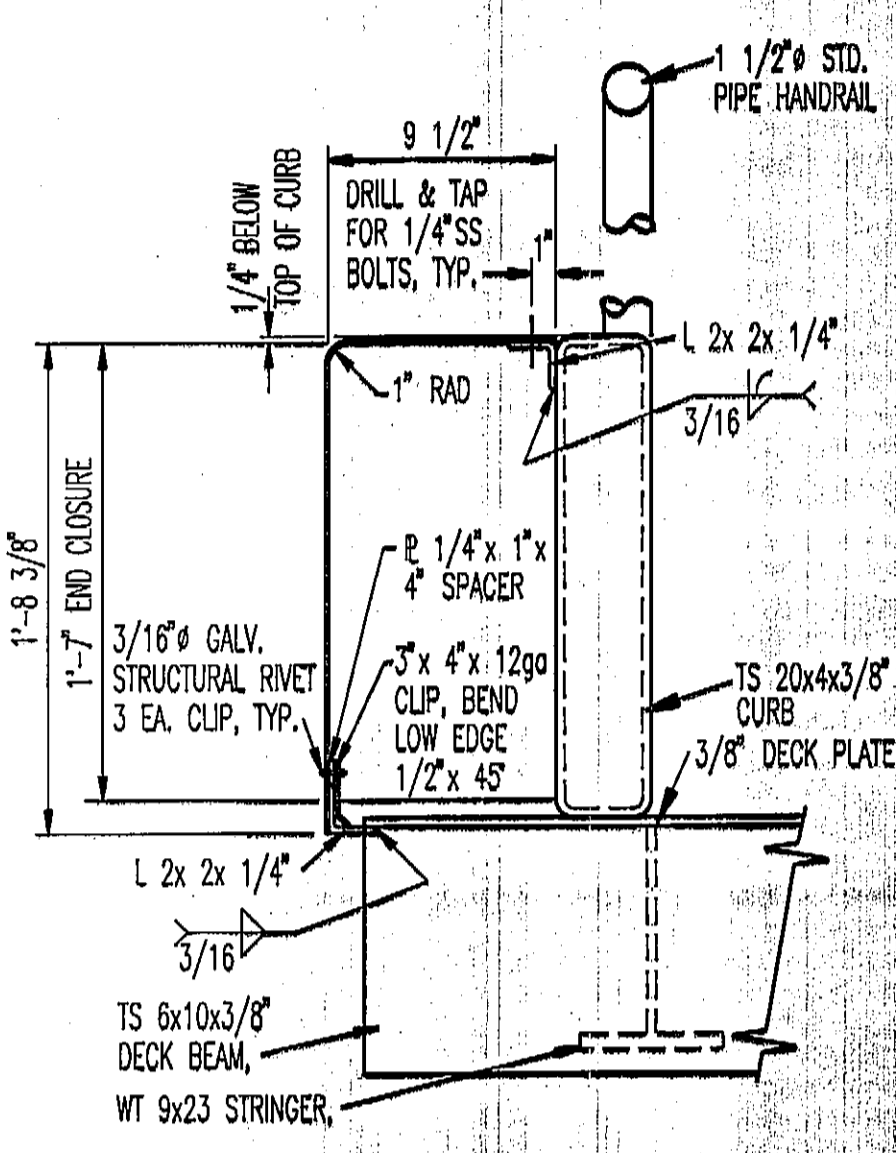
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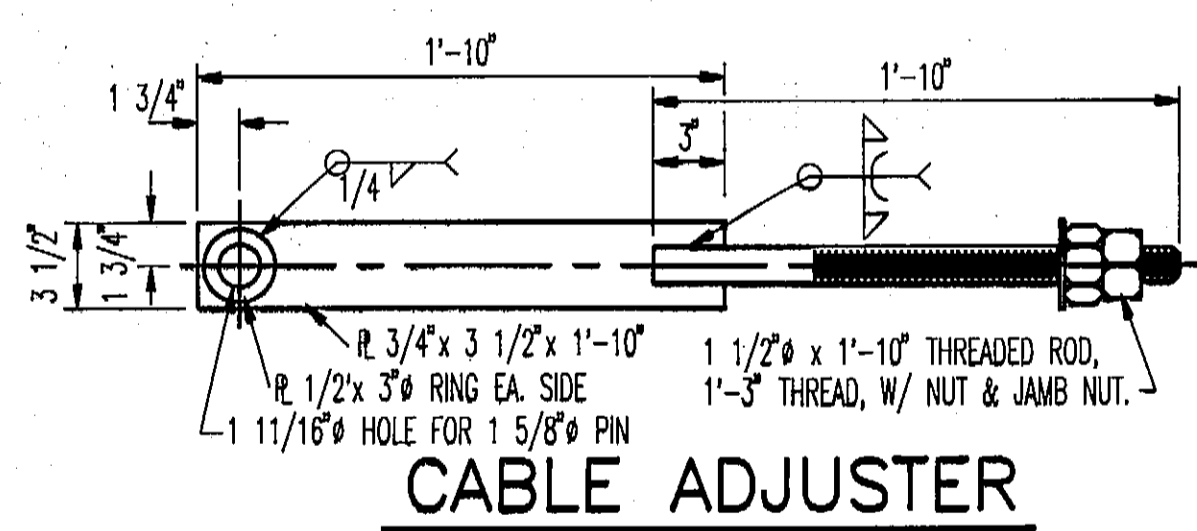
TRANSITION PLATE



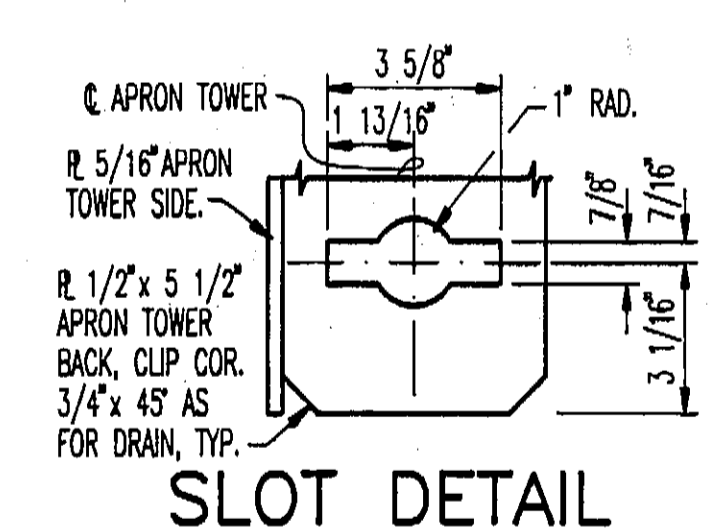
ACTUATOR COVER



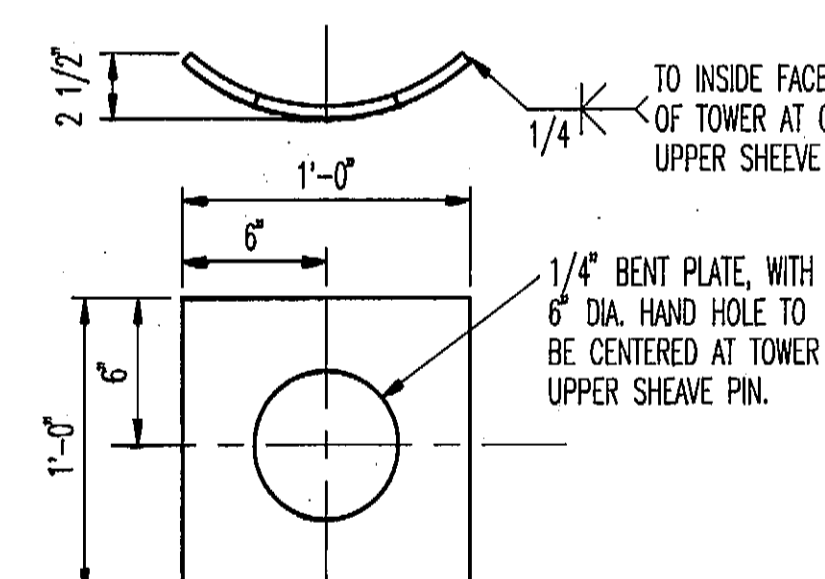
COVER DETAIL



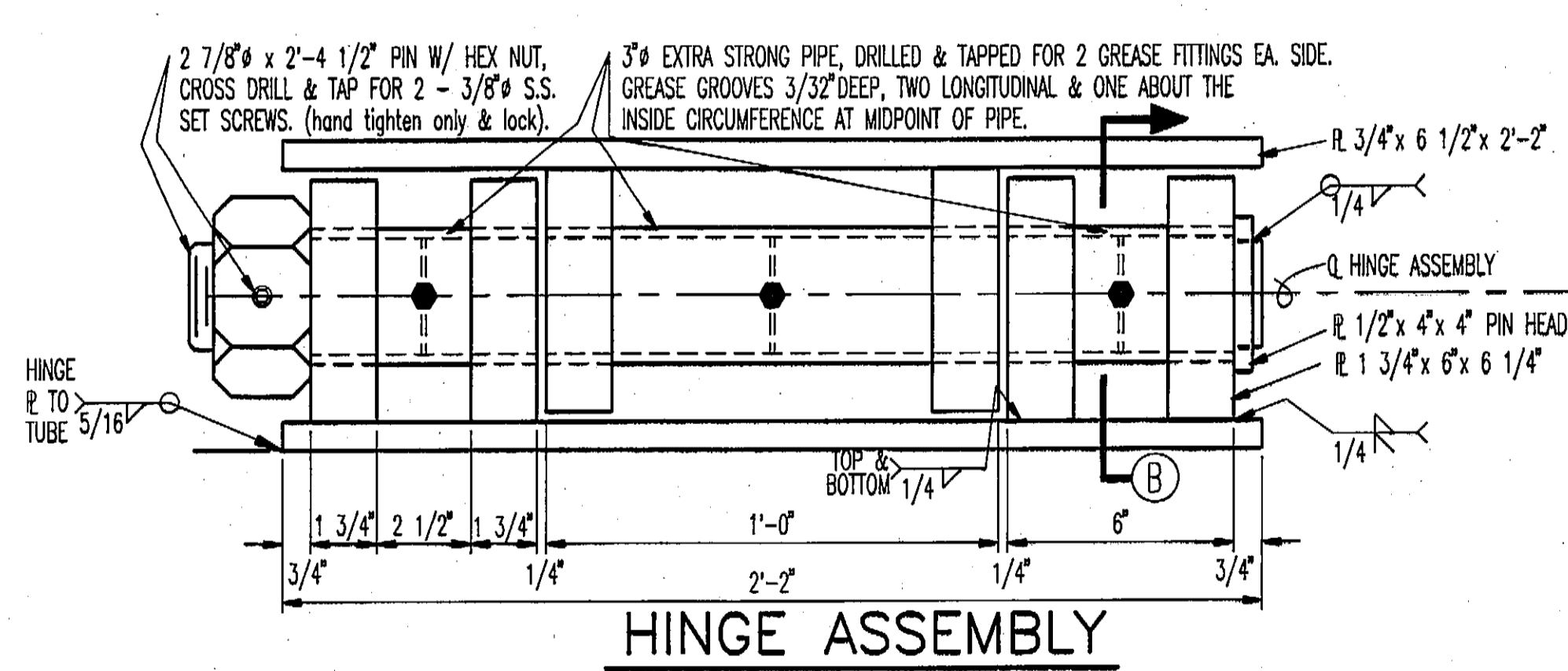
CABLE ADJUSTER



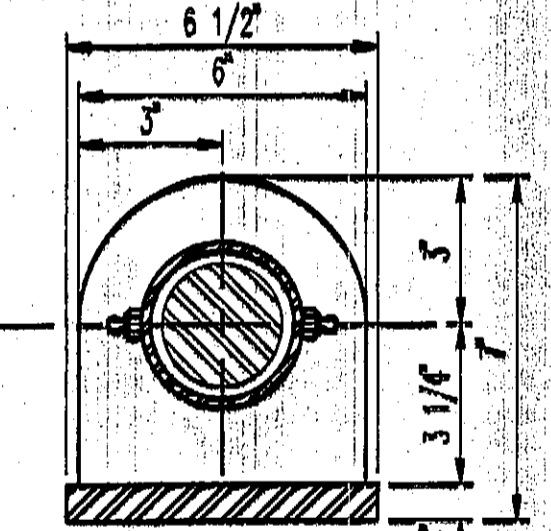
SLOT DETAIL



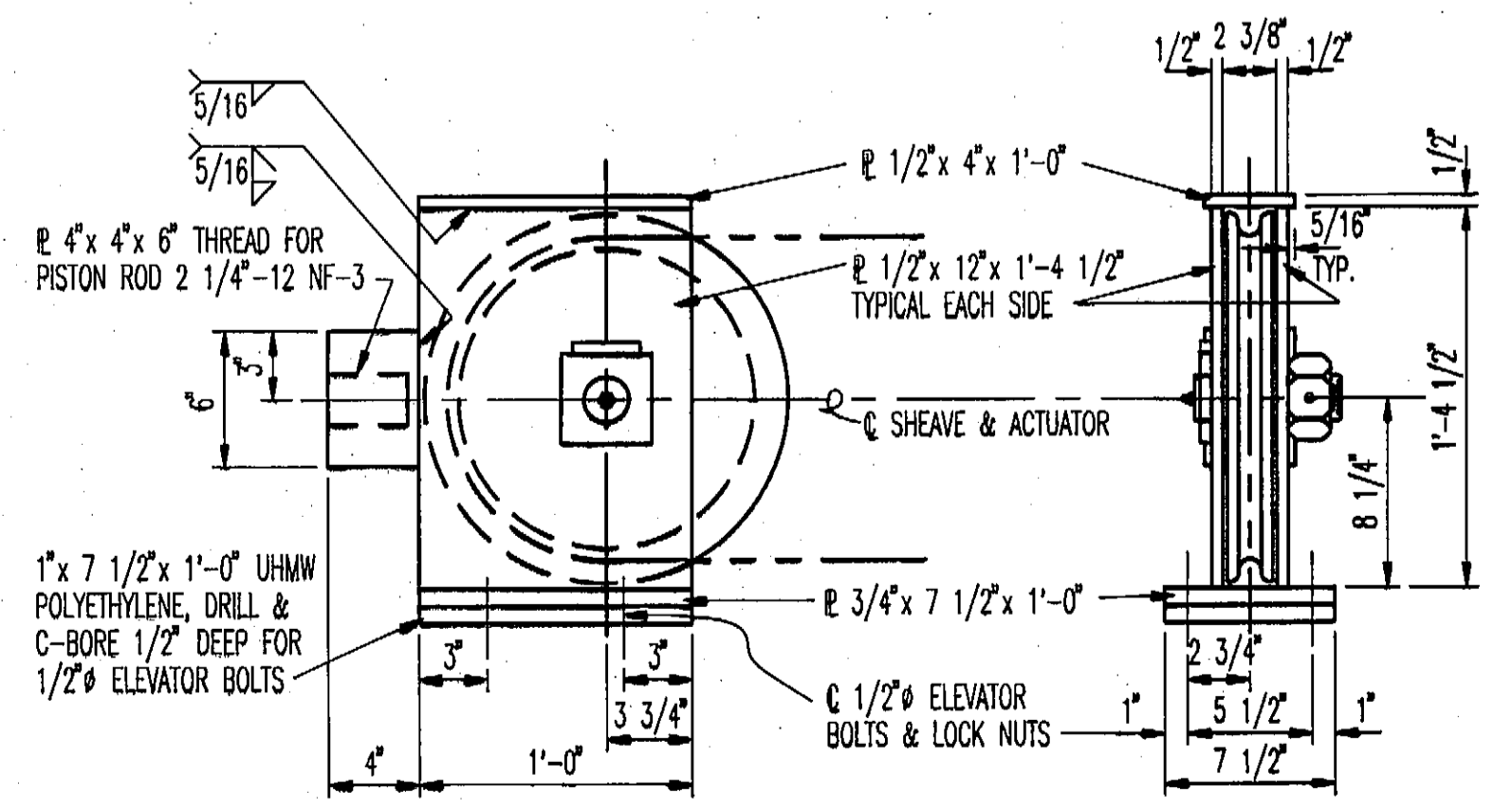
DEFLECTOR PLATE



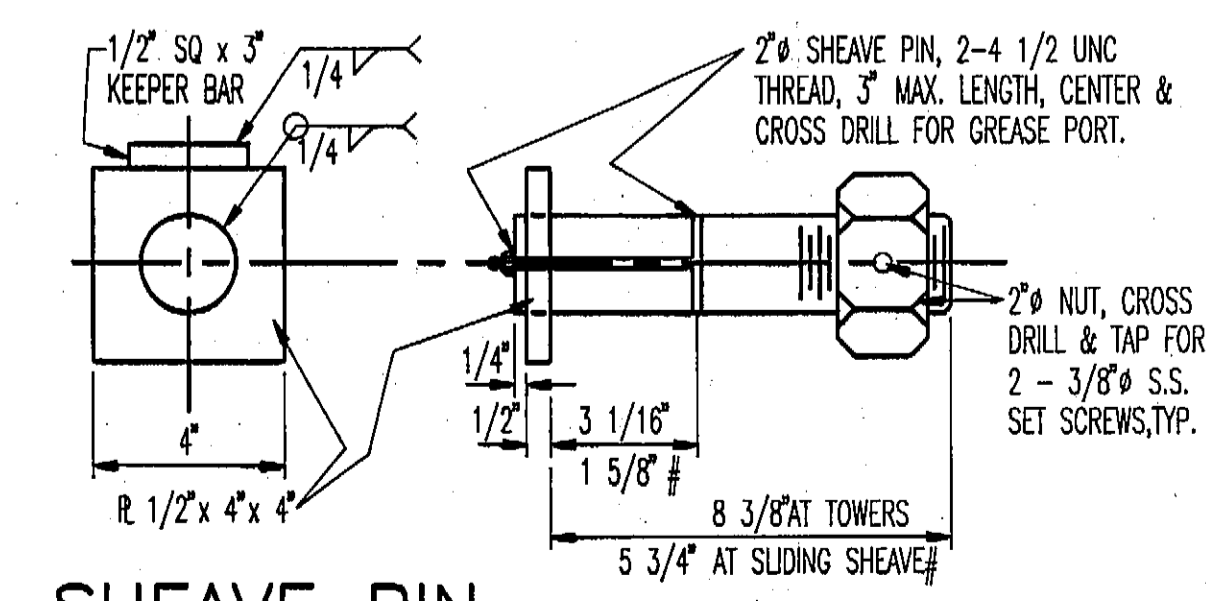
HINGE ASSEMBLY



SECTION "B"



SLIDING BLOCK



SHEAVE PIN

- NOTES:
- Hinge & Sheave Pin grease fittings shall be 1/8" PTF, short, straight and stainless steel with polyethylene caps.
 - ** Reduce 1/4" clearance at Hinges with 1/16" thick flat washers as required to achieve minimum spaces.
 - Close all open ended pipe & tube with 1/4" plate & seal weld.
 - * Dimensions based on Cunningham Hydraulic Actuator. Contractor shall use actual Hydraulic Actuator dimensions.
 - All Sheaves This Sheet shall be: 16" O.D., 13" Tread Dia., 2 5/16" Hub Width, and 2" Shaft w/ Bronze Bushing.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

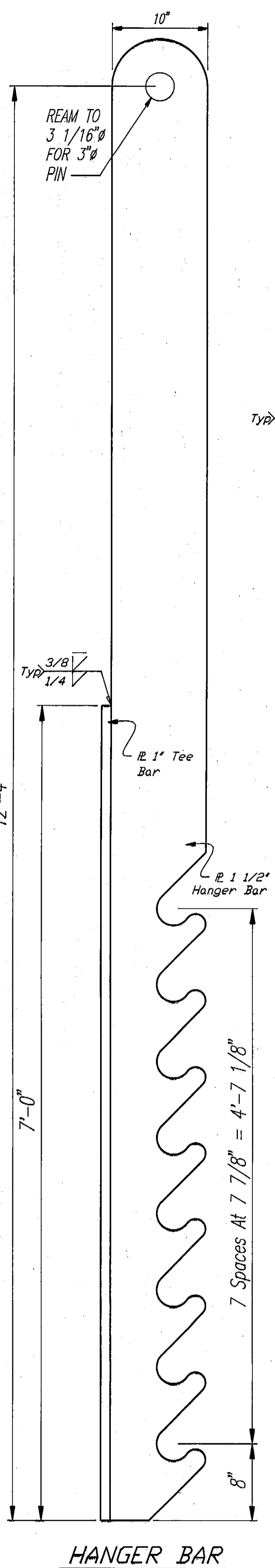
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KAKE ALASKA
INTERMEDIATE RAMP DETAILS

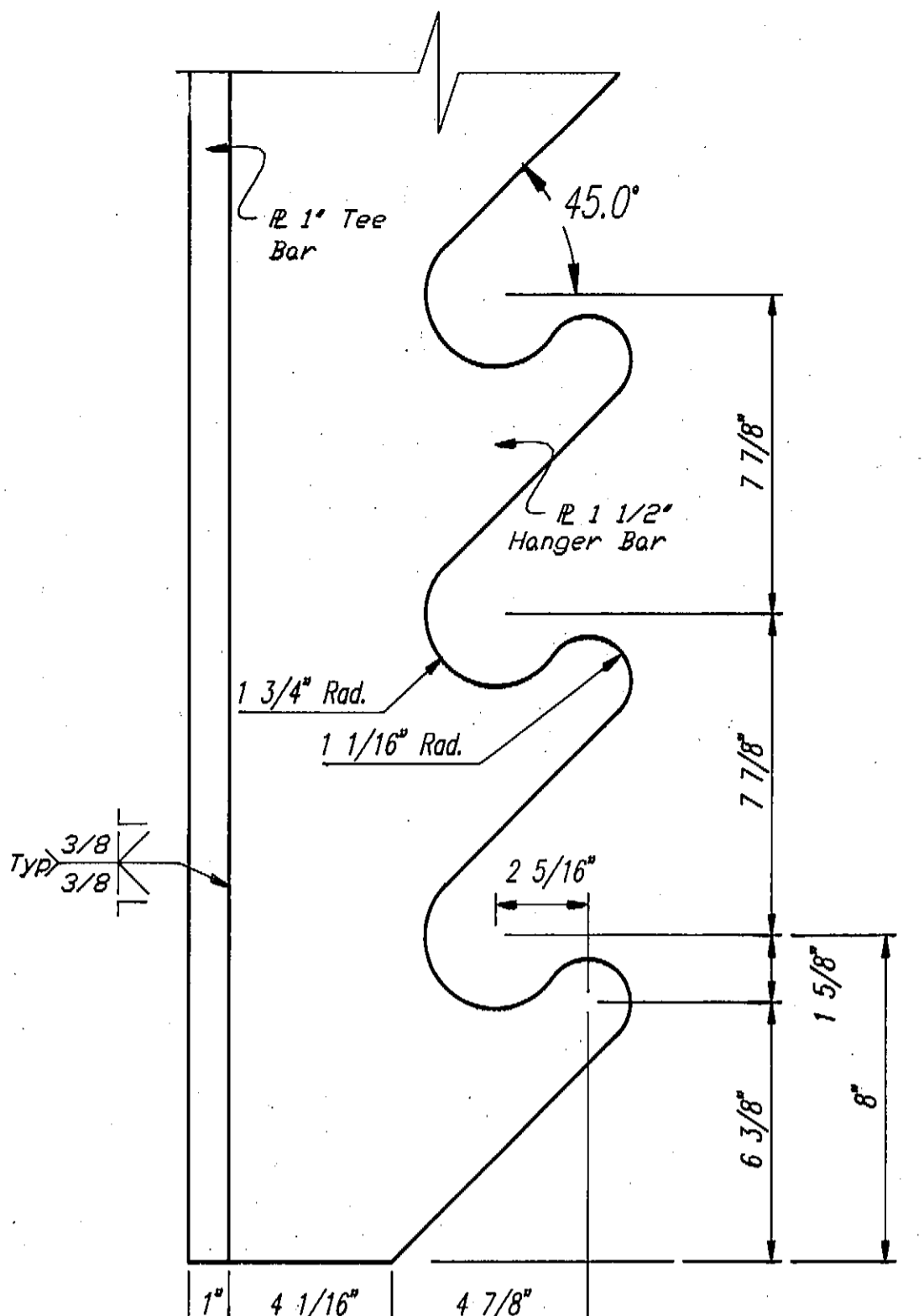
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PROJECT NUMBER: STP-0939(5) 75377 SHEET 6 OF 19

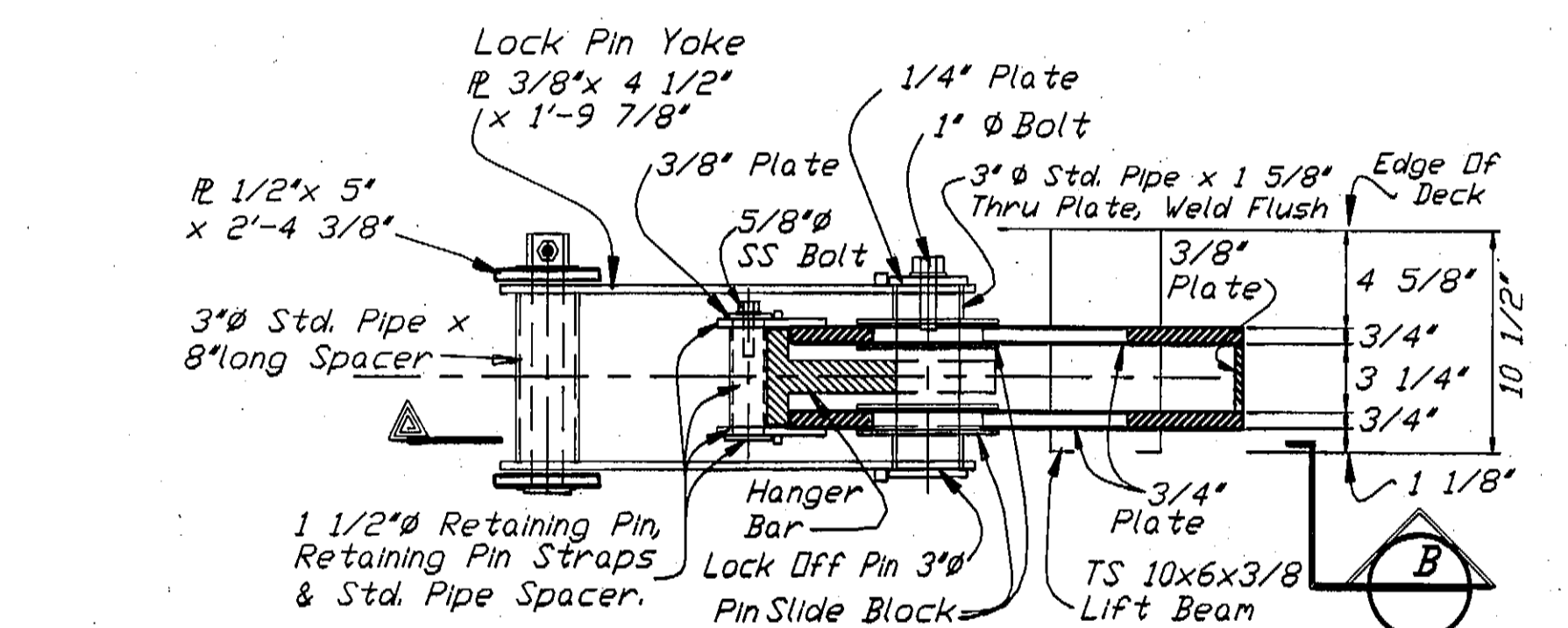
RMP-INT2 56-94



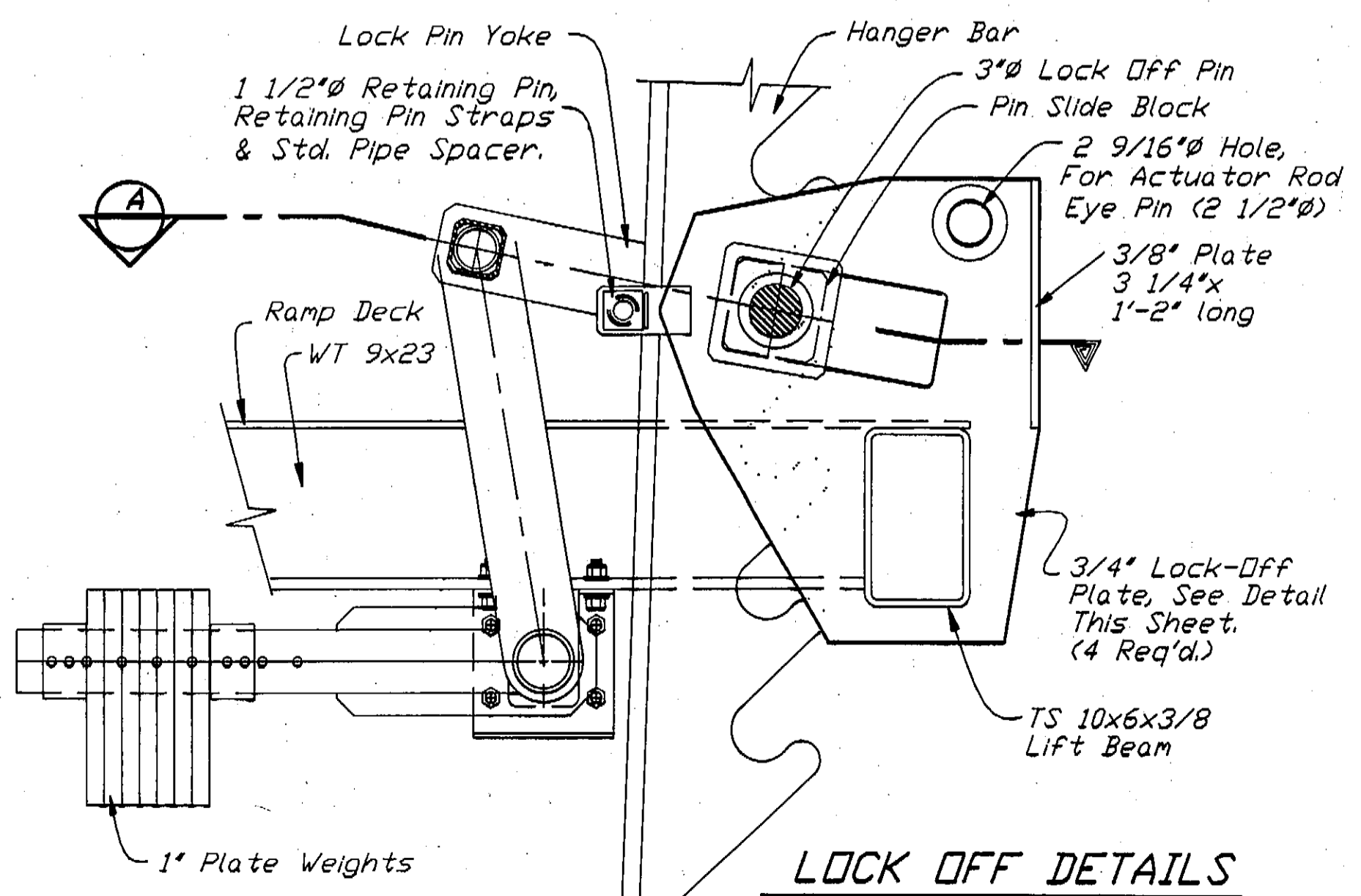
HANGER BAR



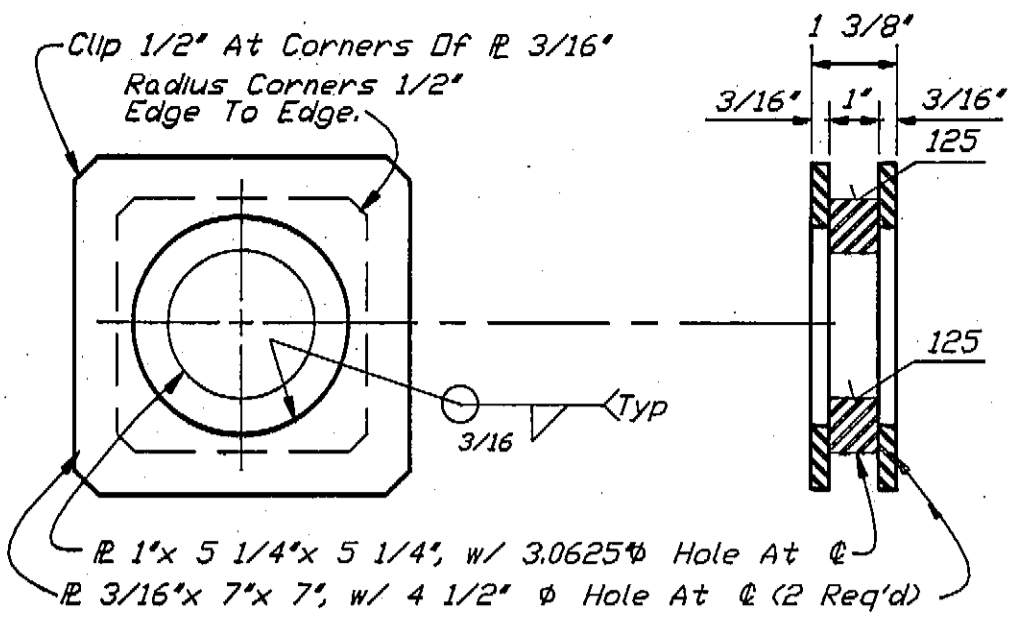
HANGER BAR DETAILS



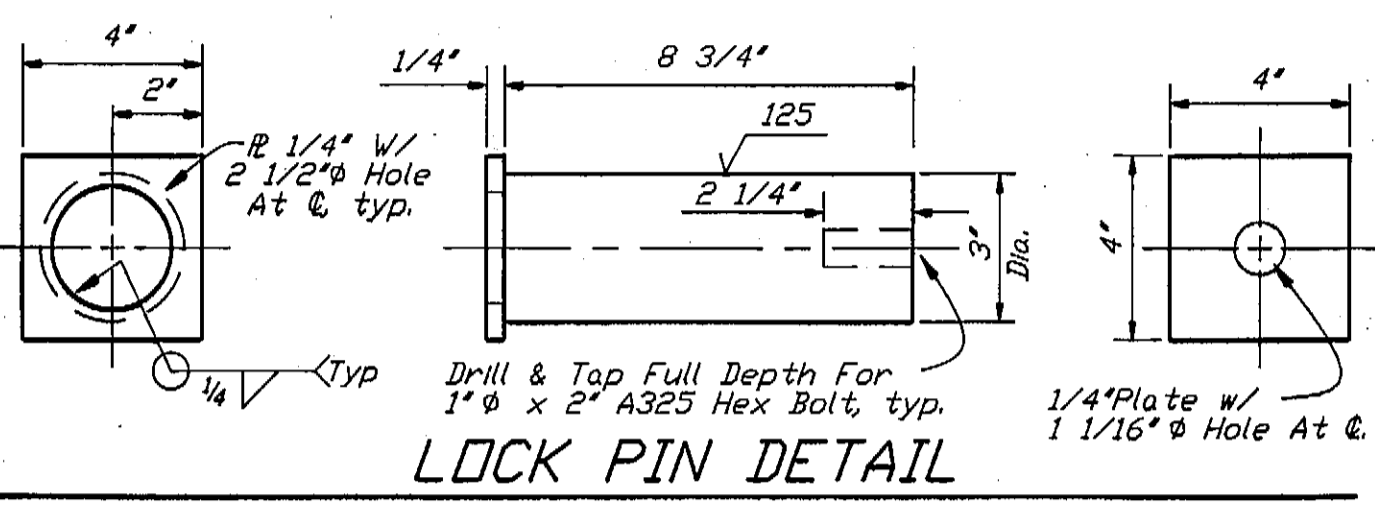
LOCK OFF DETAILS SECTION A



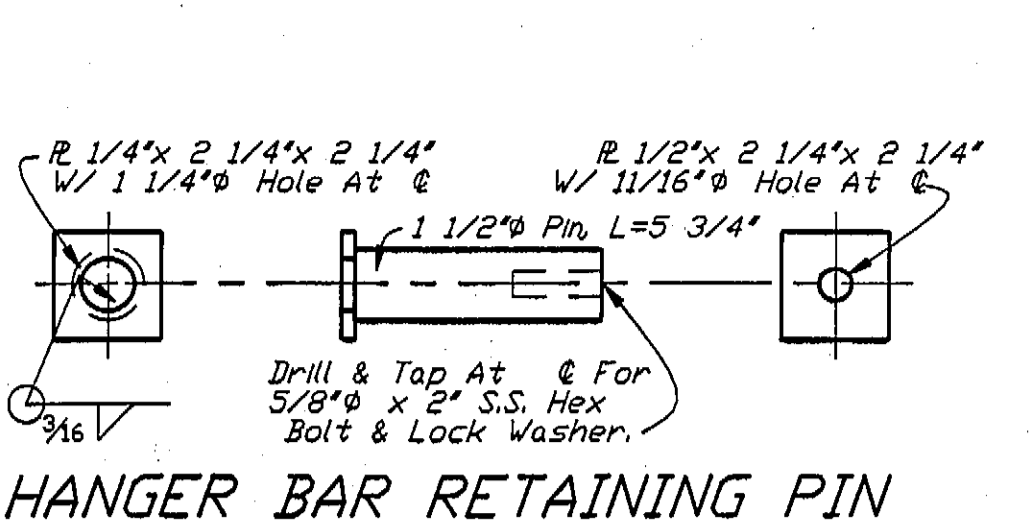
LOCK OFF DETAILS SECTION B



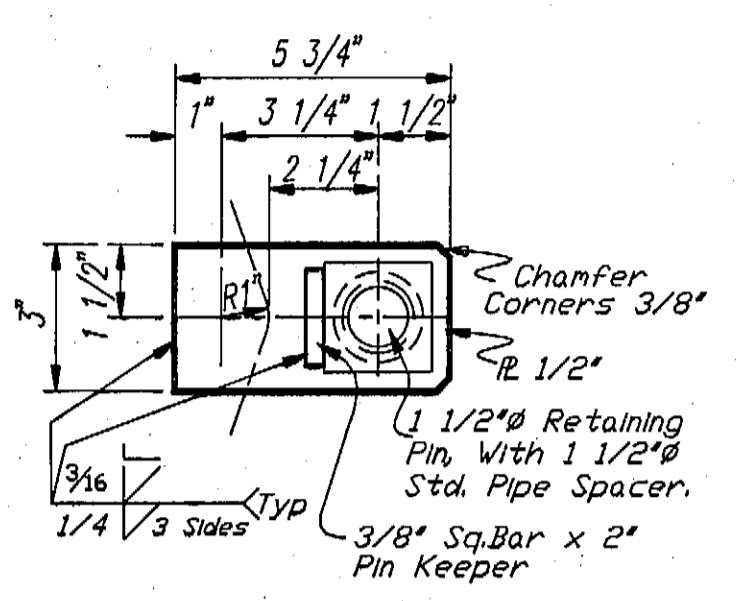
PIN SLIDE BLOCK



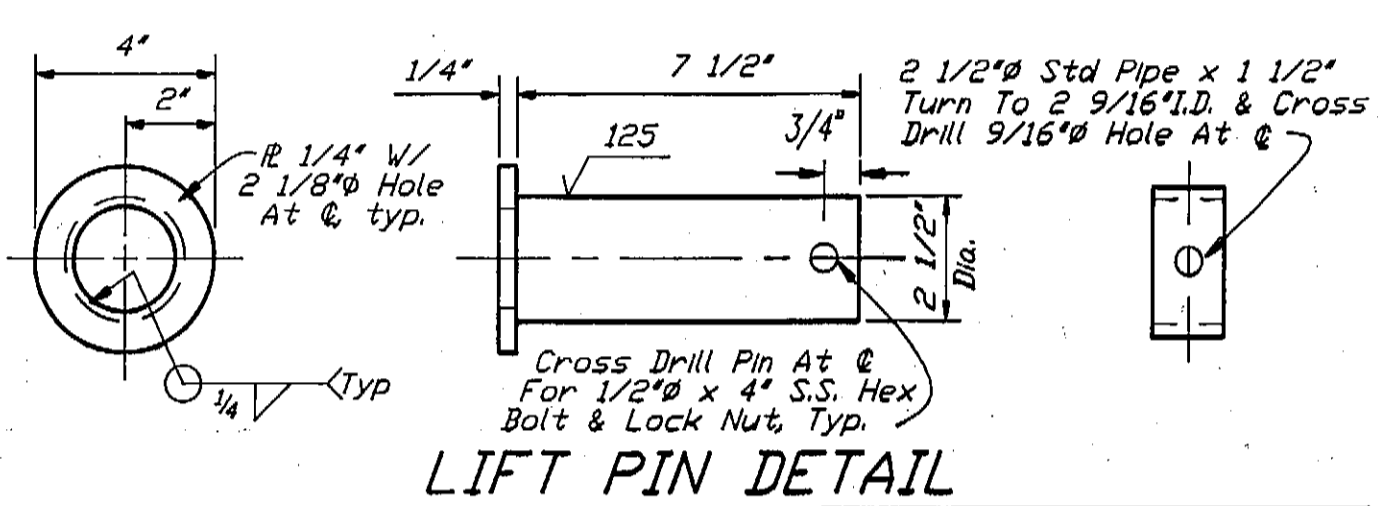
LOCK PIN DETAIL



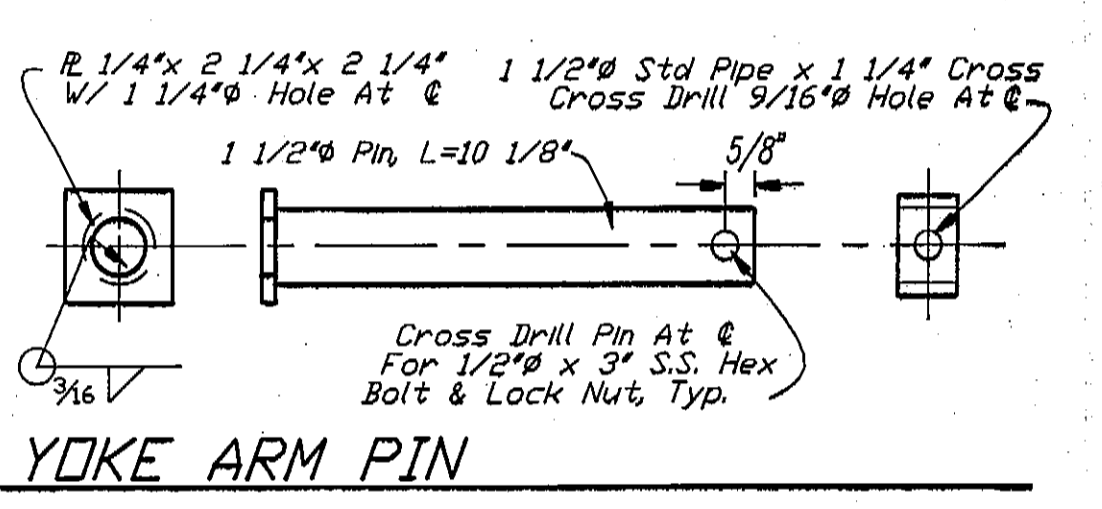
HANGER BAR RETAINING PIN



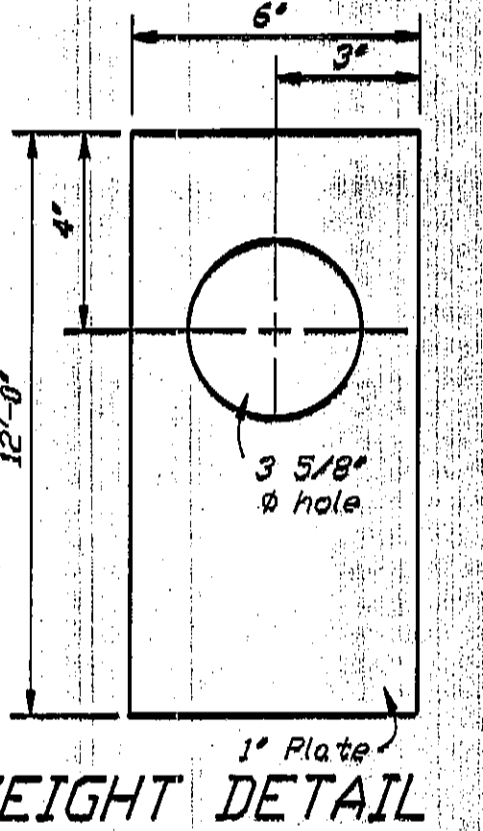
RETAINING PIN STRAP



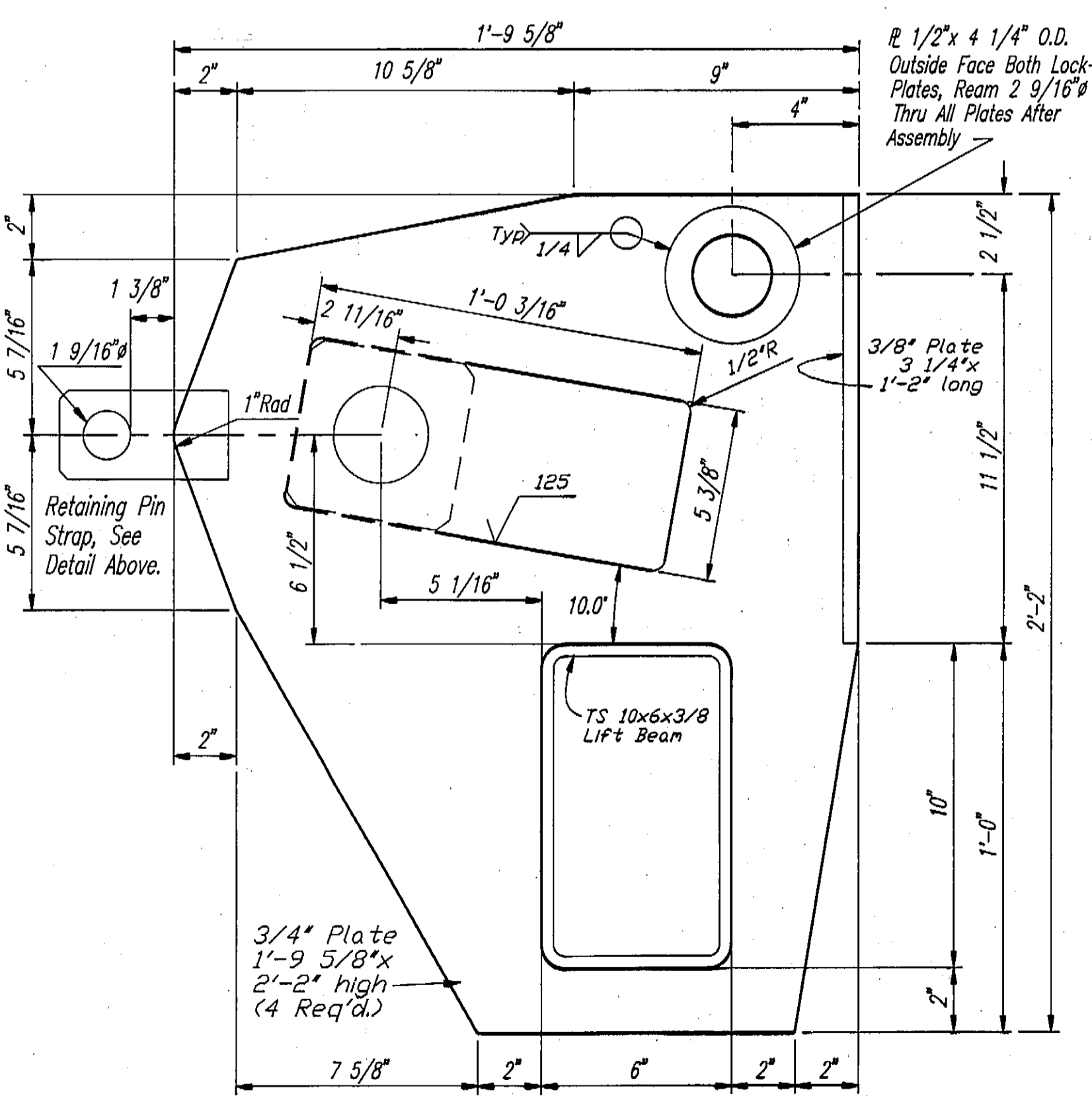
LIFT PIN DETAIL



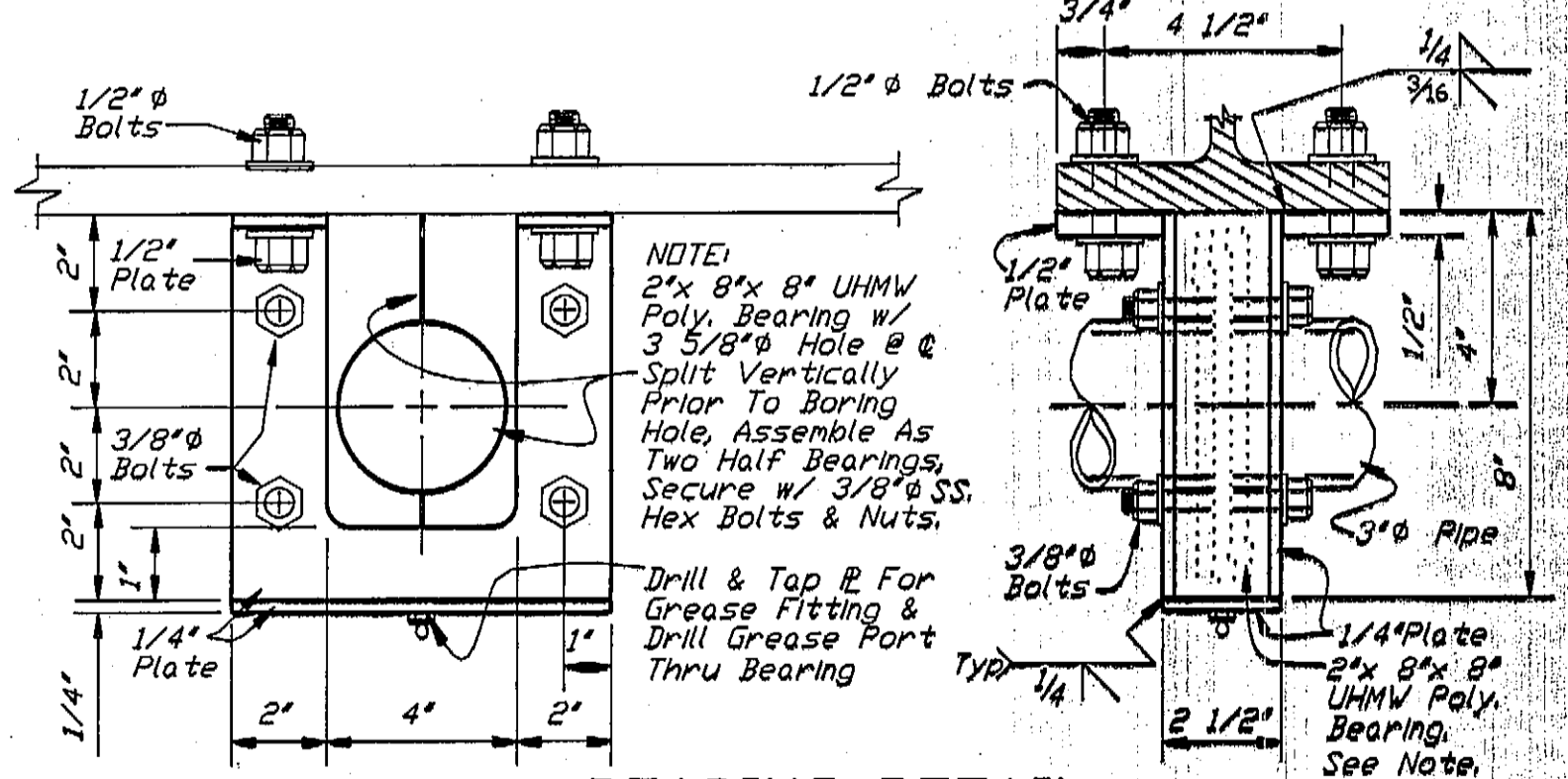
YOKE ARM PIN



WEIGHT DETAIL



LOCK-OFF PLATE DETAIL

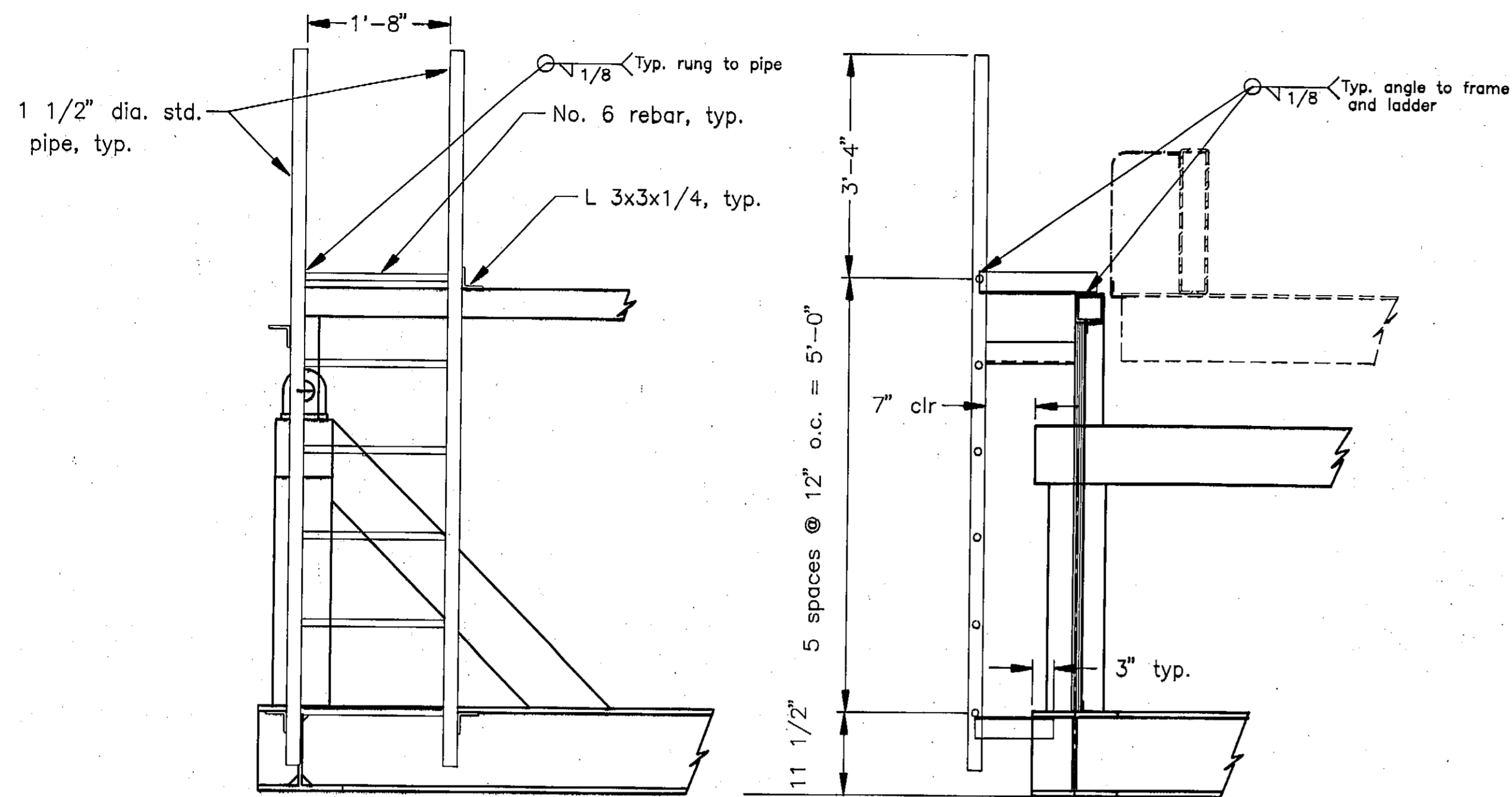


BEARING DETAIL

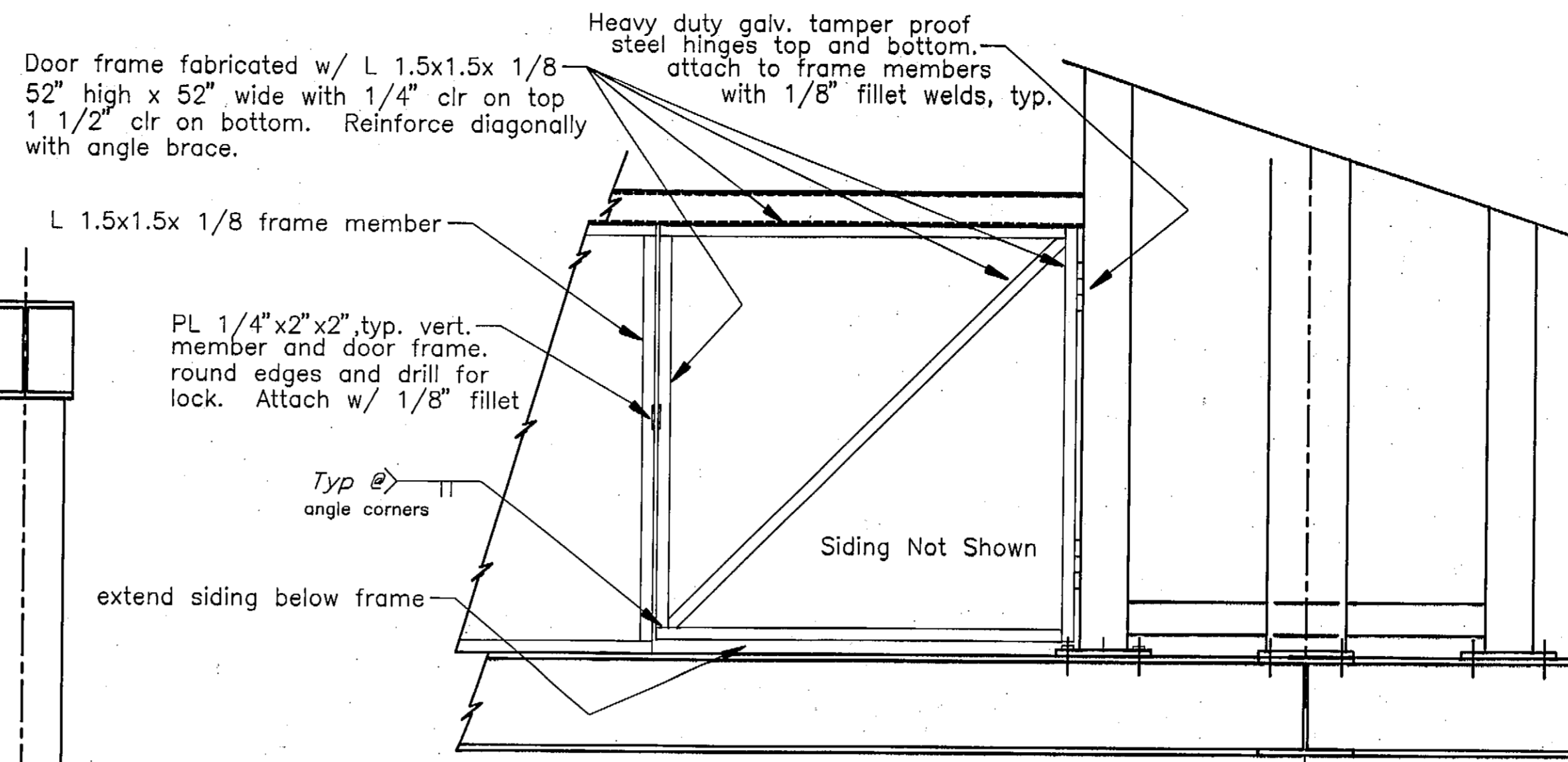
4 Bearings Req'd, Center In WT9x23 Stringers At 1'-0" & 8'-0" Each Side Of Centerline Of Intermediate Ramp. Grease Both pipe And Bearing During Assembly.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAK		ALASKA	
HANGER BAR & LOCK OFF DETAILS			
DESIGNED BAS	CHECKED JAL	DRAWN WN	DATE MARCH, 1994
PROJECT NUMBER STP-0939(5)	75377	SHEET 7	OF 19

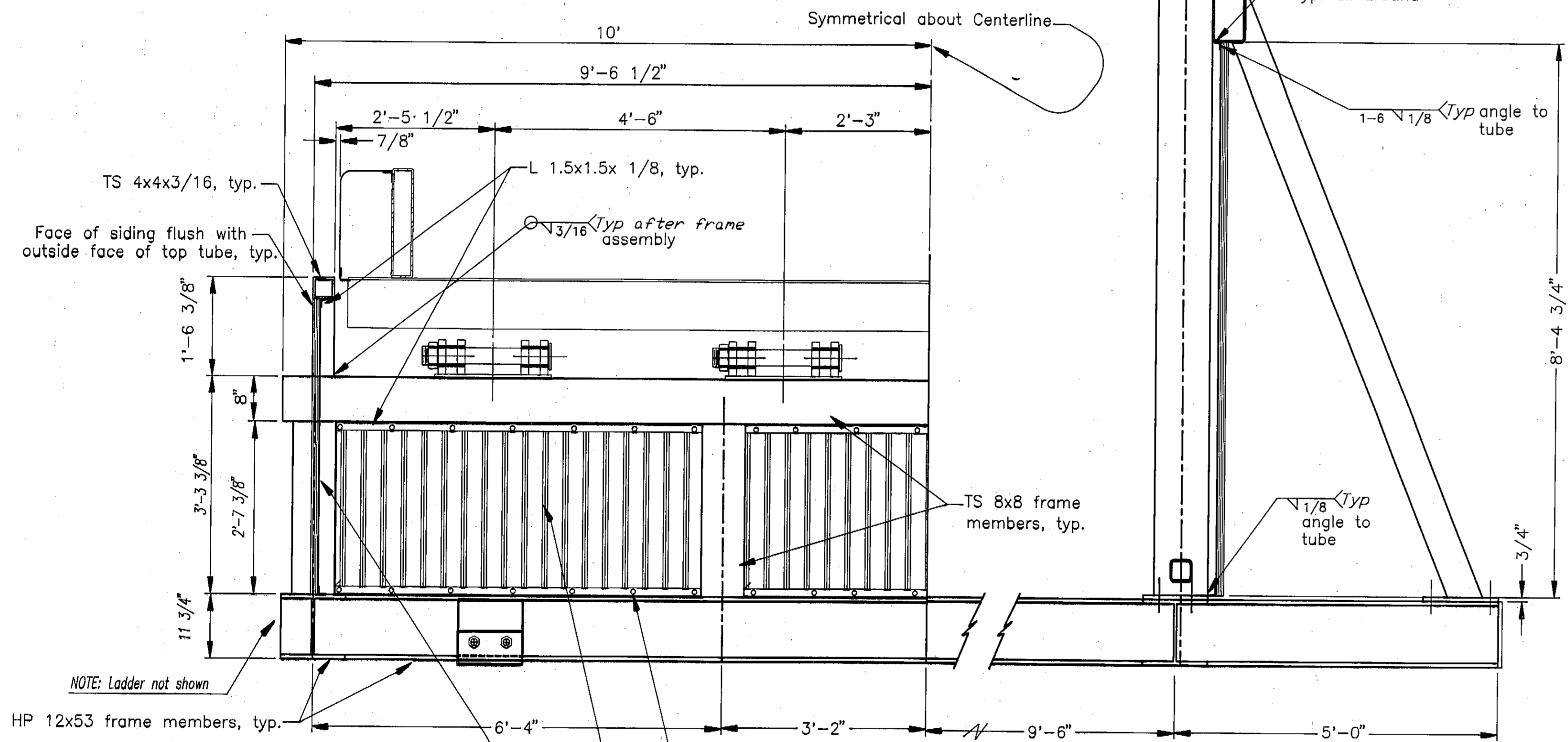




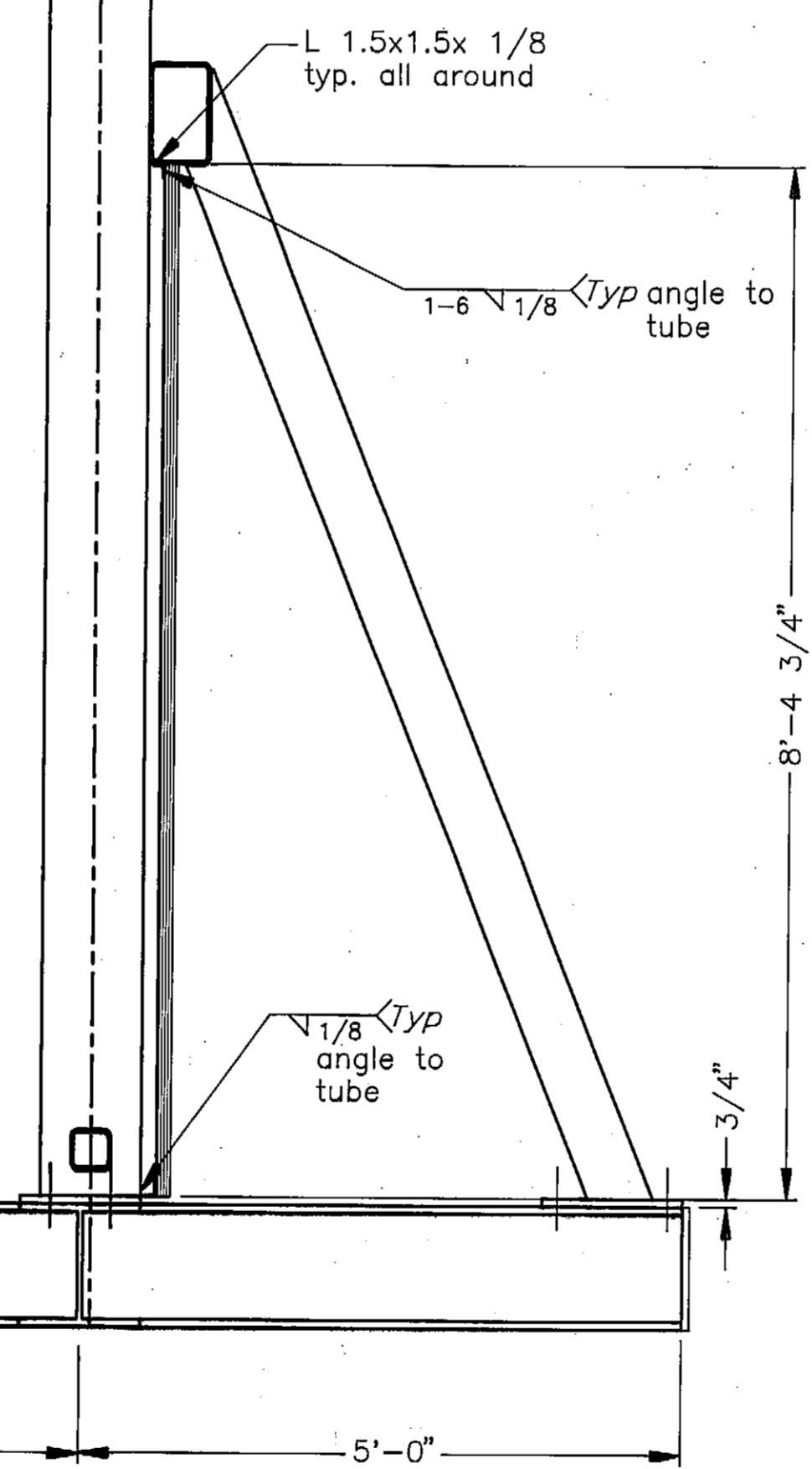
LADDER DETAIL
(Typical ea. side of ramp)



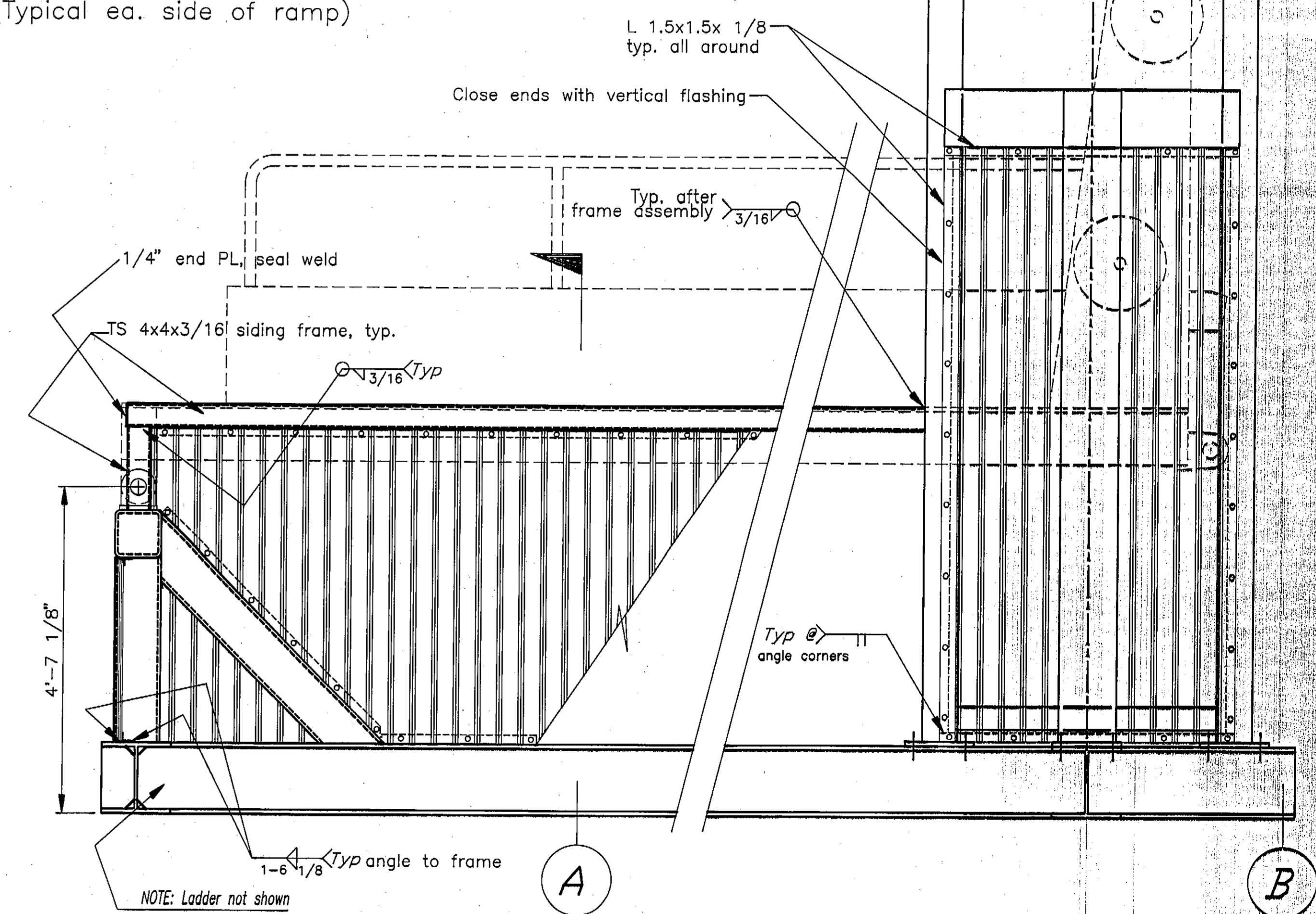
DOOR FRAME DETAIL
(Typical ea. side of ramp)



SECTION A



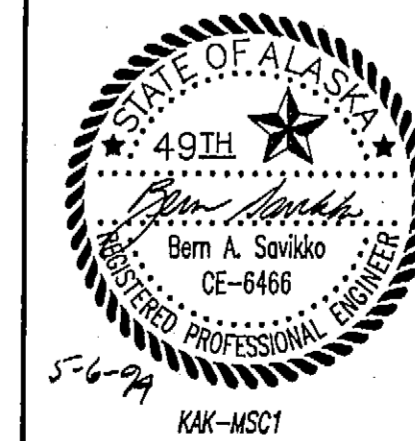
SECTION B

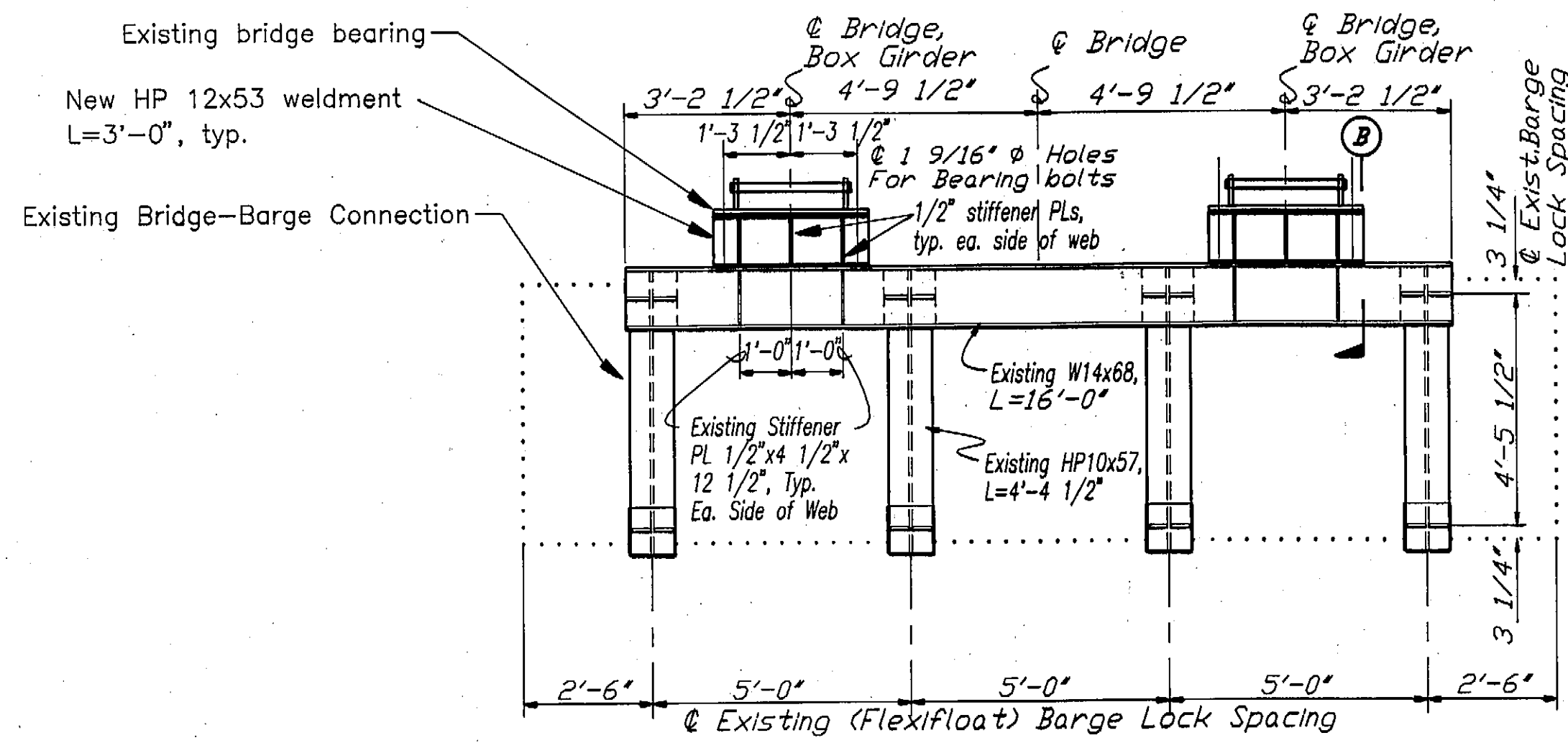


SIDE ELEVATION

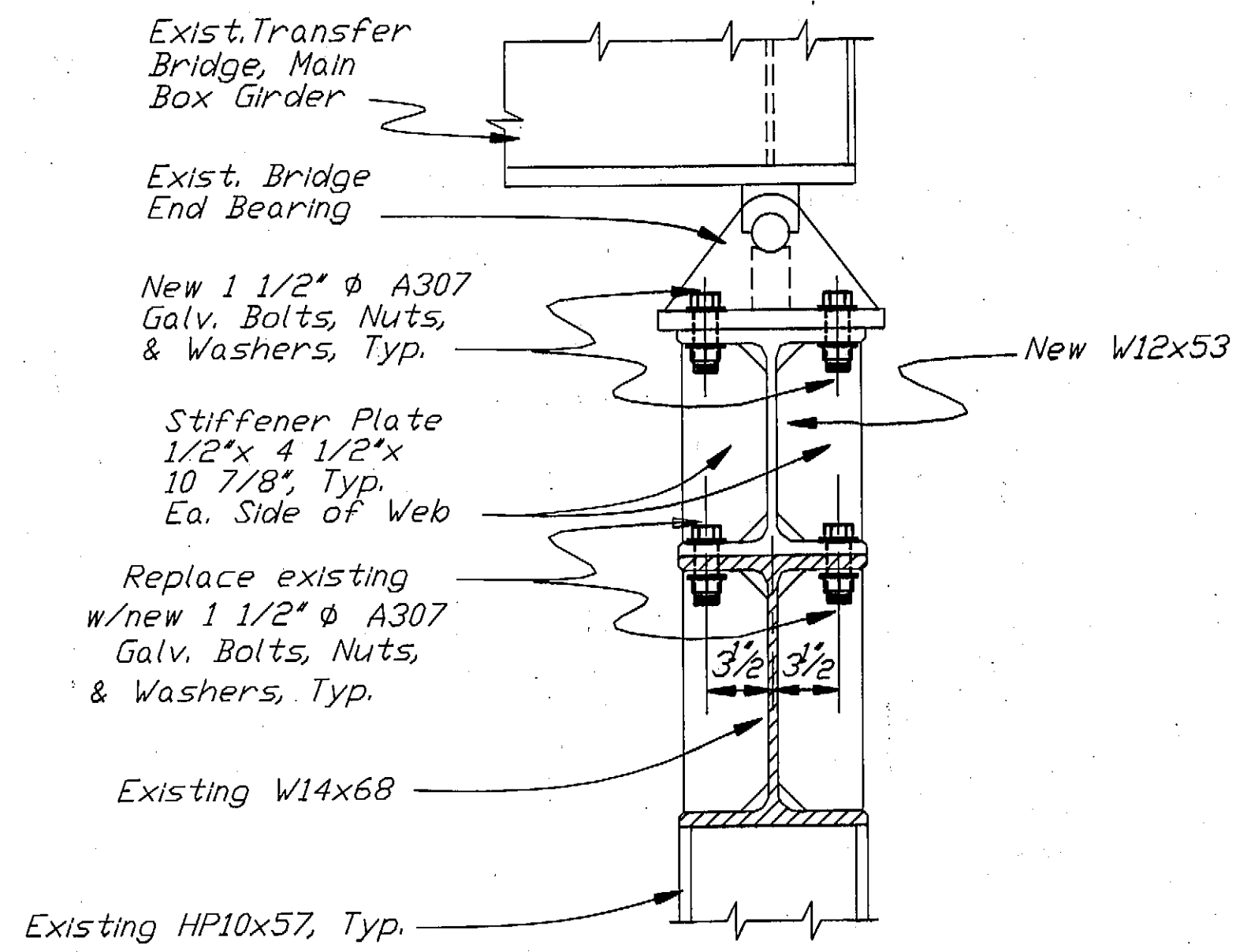
26 ga. galvanized steel siding, cut to fit req'd openings.
Fasten siding to mounting angles w/self-tapping rubber gasket stainless steel screws, max. 12" o.c., typ.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAKE		ALASKA	
SIDING DETAILS			
DESIGNED: BAS	CHECKED:	DRAWN: BAS	DATE: JAN 1994
PROJECT NUMBER: STP-0939(5) / 75377	SHEET 8	OF	19



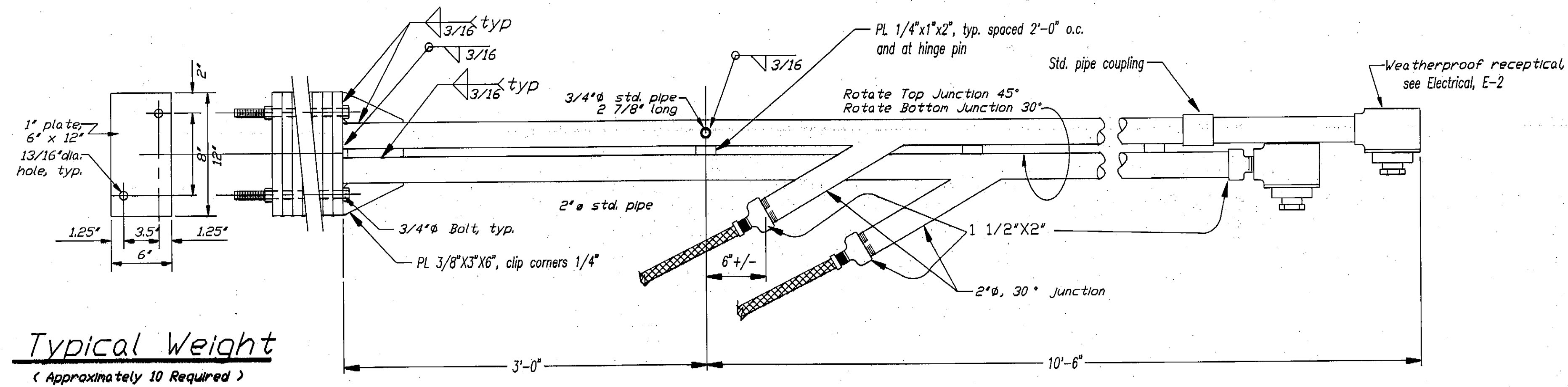


ELEVATION
BRIDGE-BARGE CONNECTION



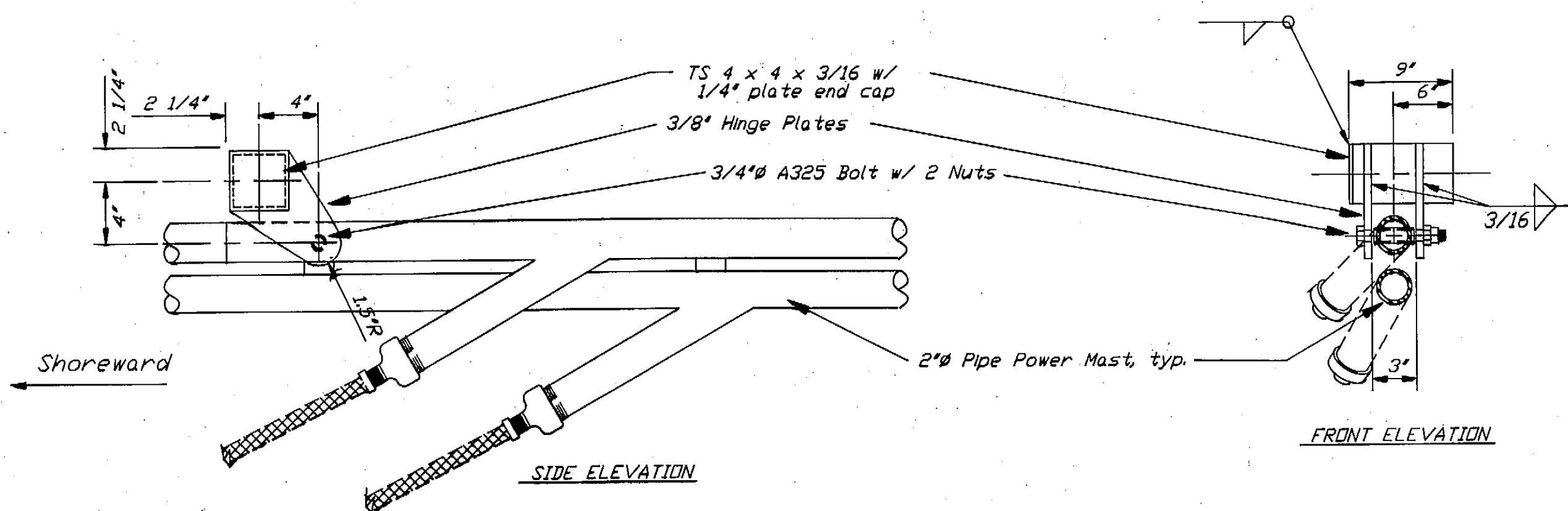
SECTION B

BRIDGE WEDGE DETAIL

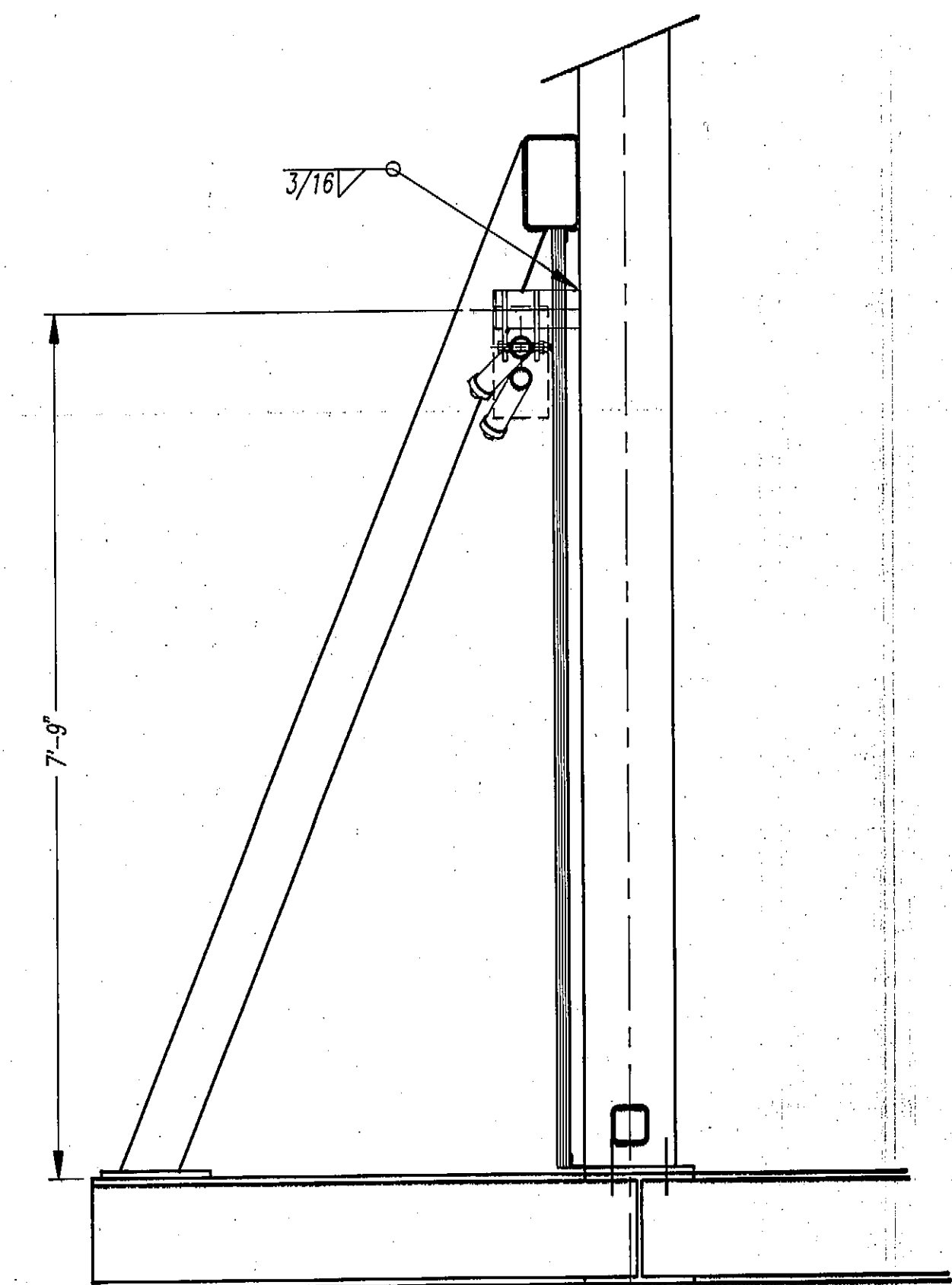


Typical Weight
(Approximately 10 Required)

POWER MAST DETAILS

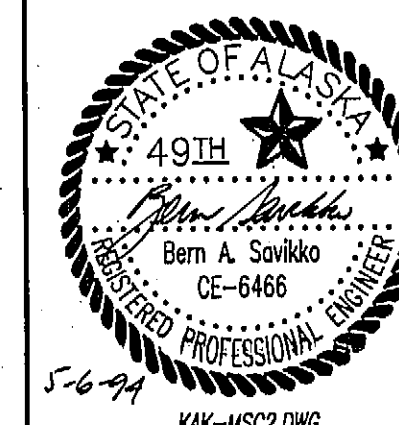


Mast Mounting Details

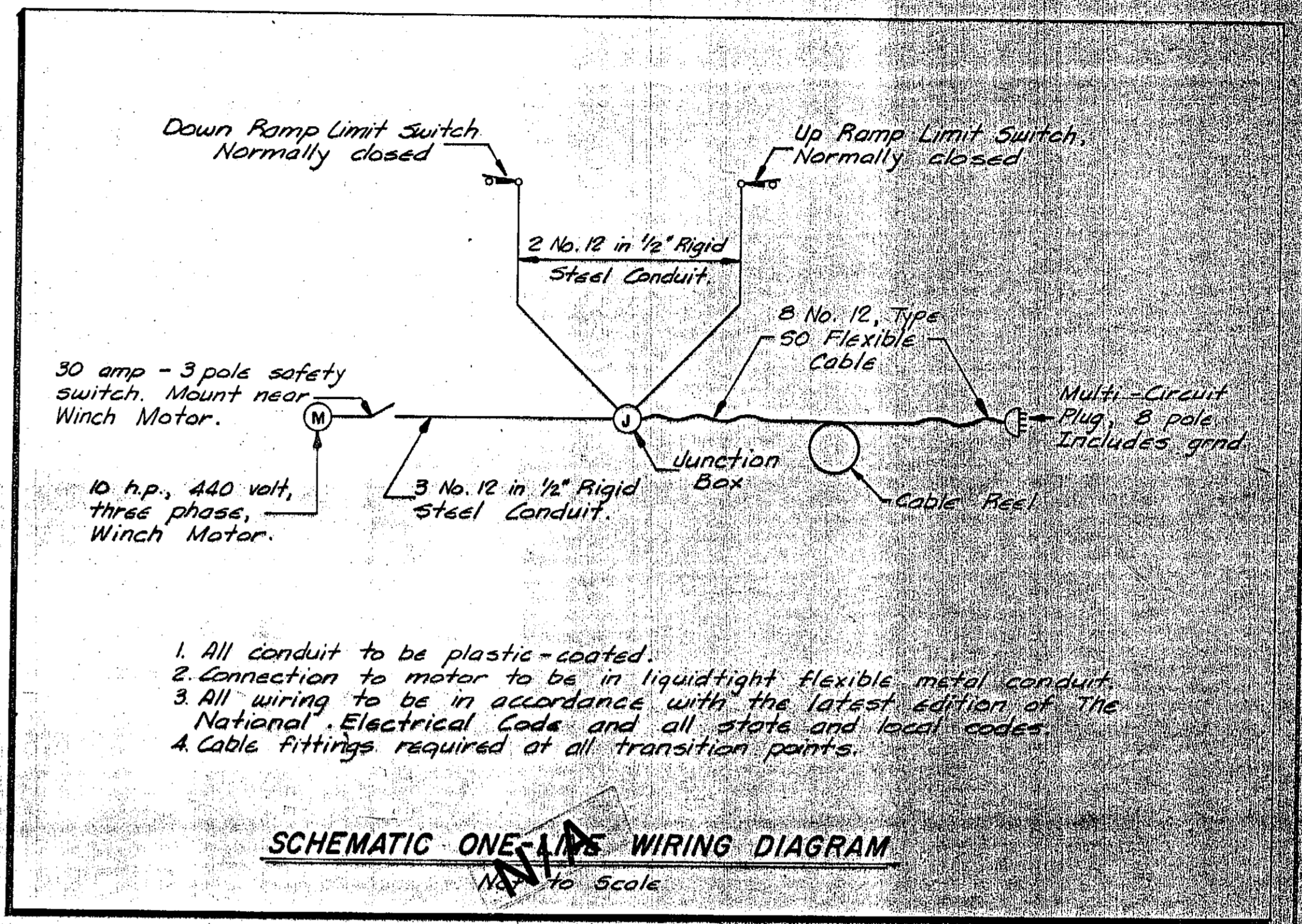
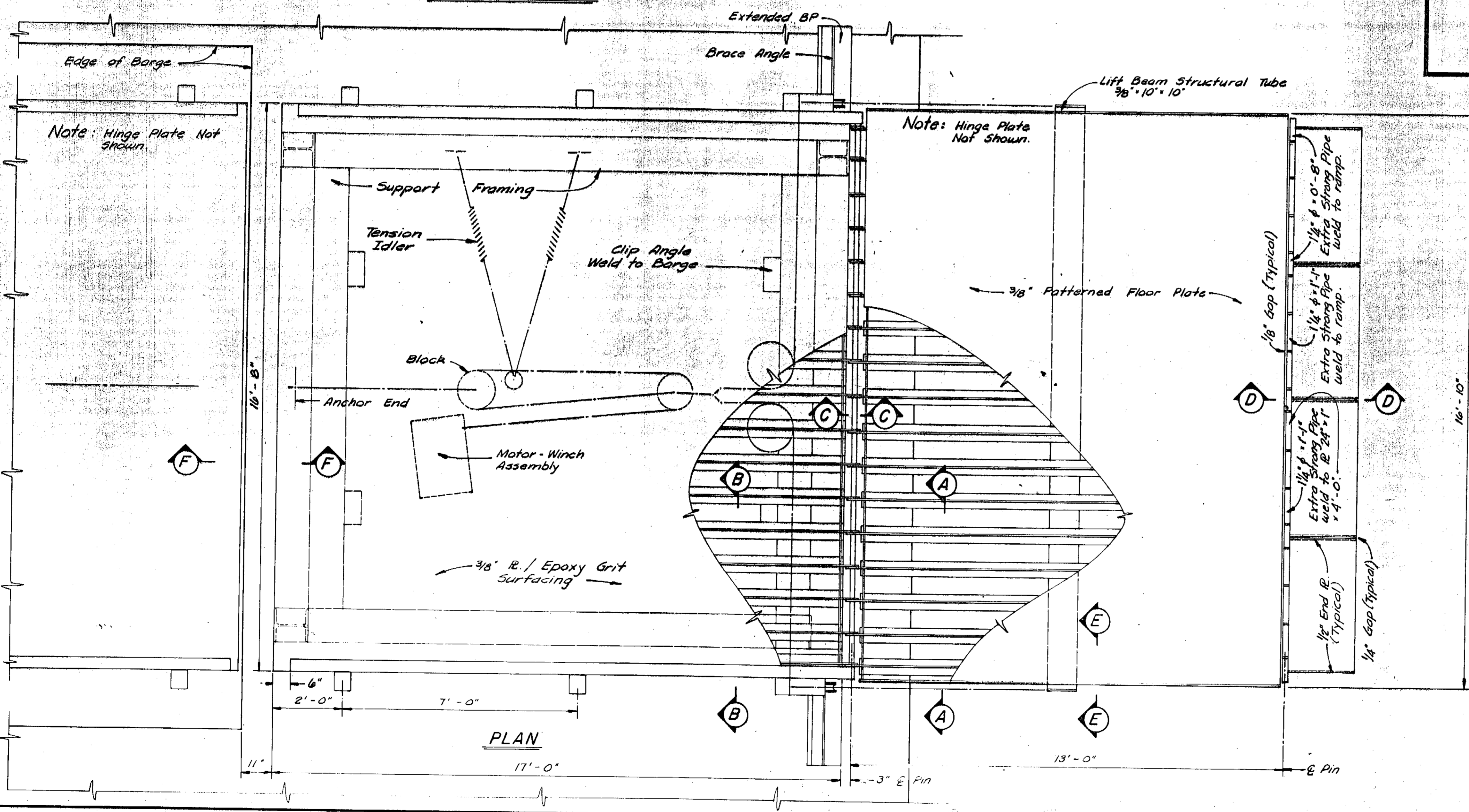
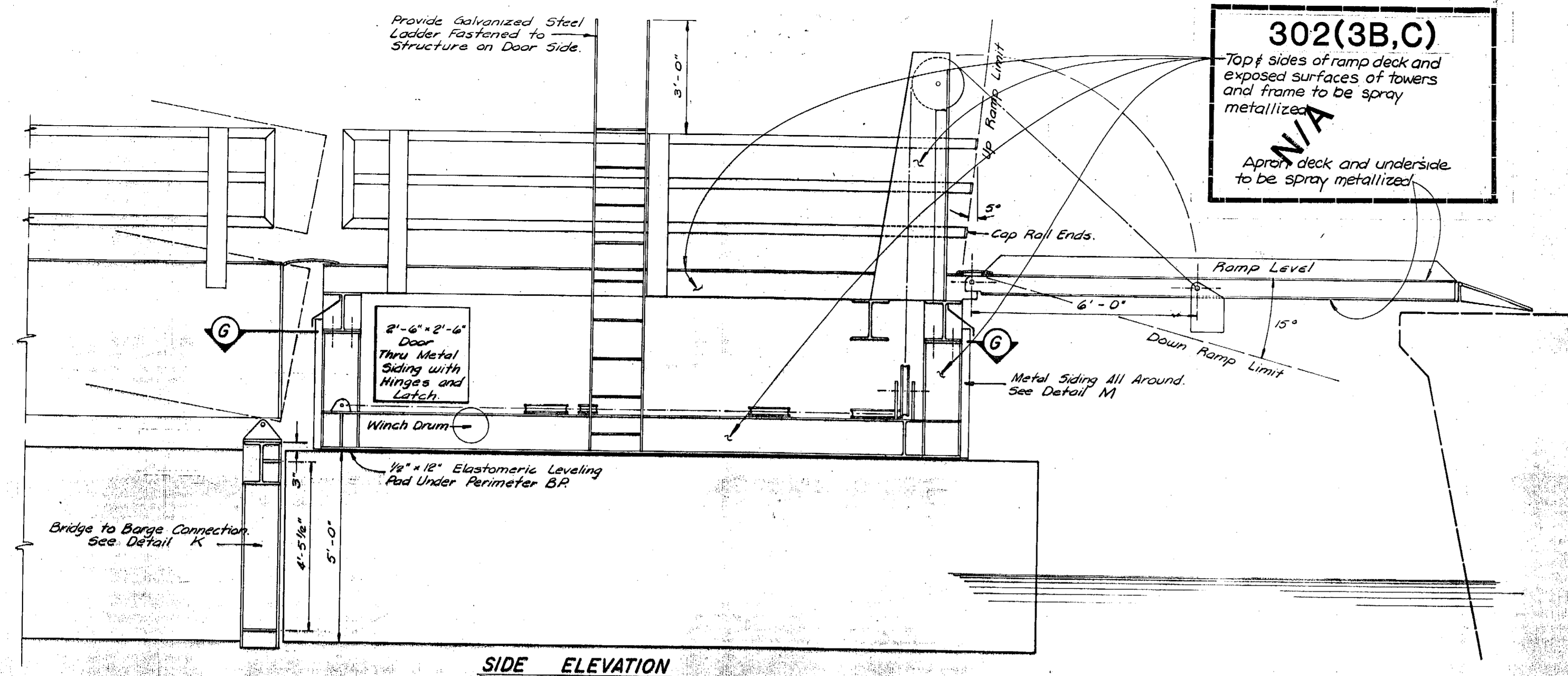


Mast Mount Elevation

DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAKE		ALASKA	
MISC. DETAILS			
DESIGNED: BAS	CHECKED:	DRAWN: BAS	DATE: JAN 1994
PROJECT NUMBER: STP-0939(5)/75377		SHEET 9	OF 19



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA		1973	17	19



SEE ELECTRICAL DWGS SHTS 17-19

Ramp weight approx. 26,000 lbs.
 Apron weight approx. 11,000 lbs.

AS-BUILT

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

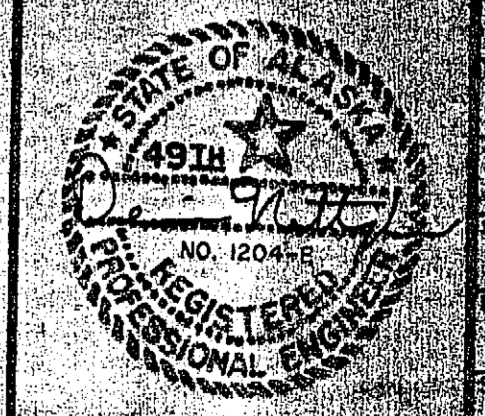
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Kake Alaska
 EXISTING
 KAKE & HOONAH RAMP SYSTEM DETAILS

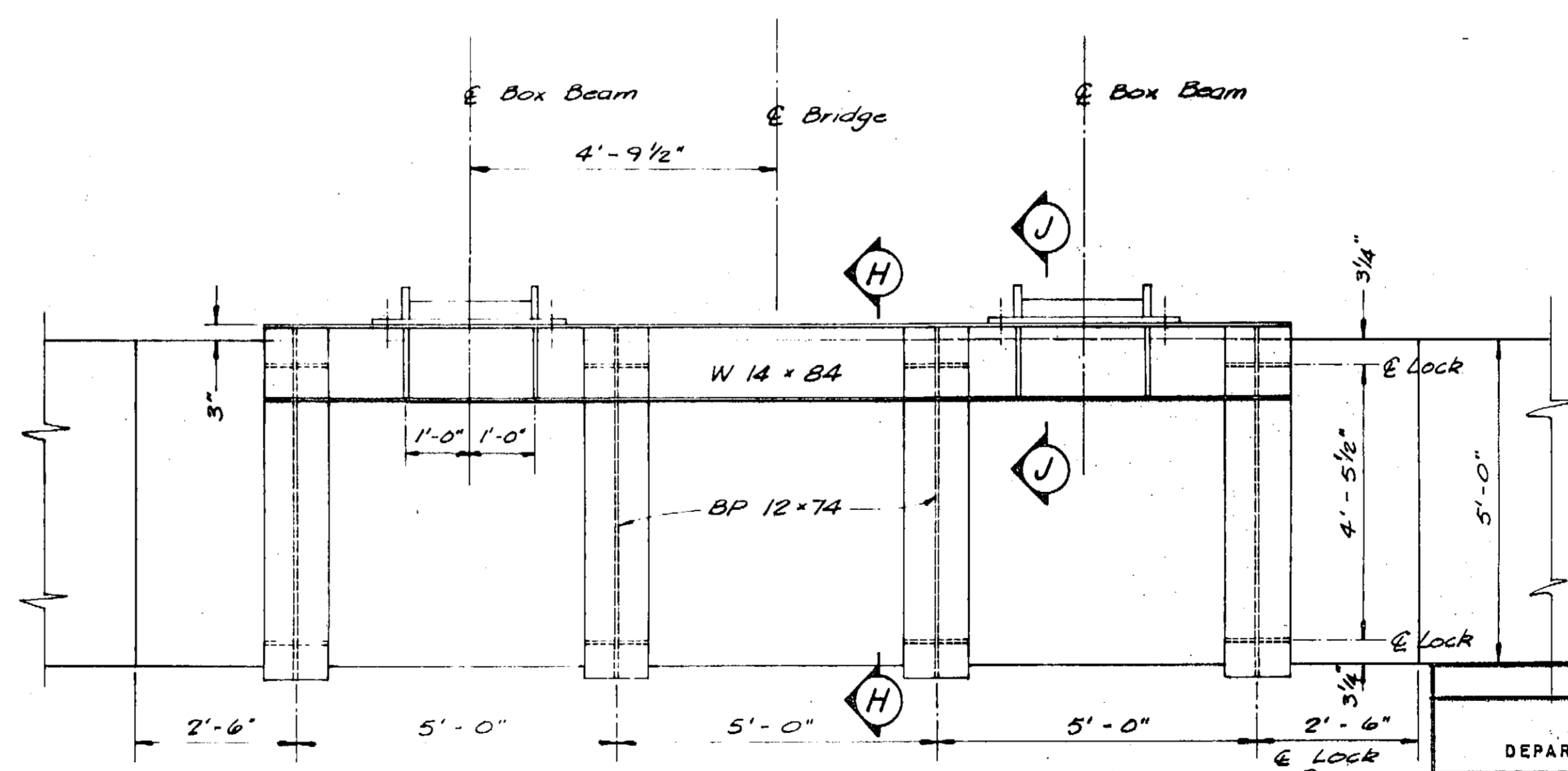
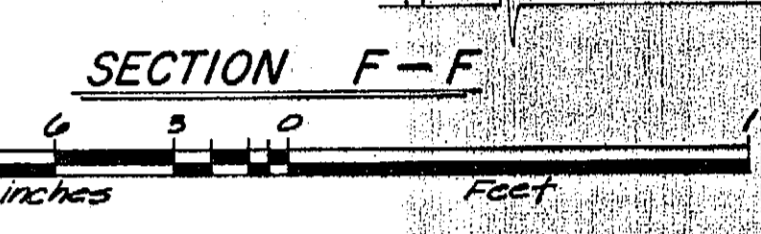
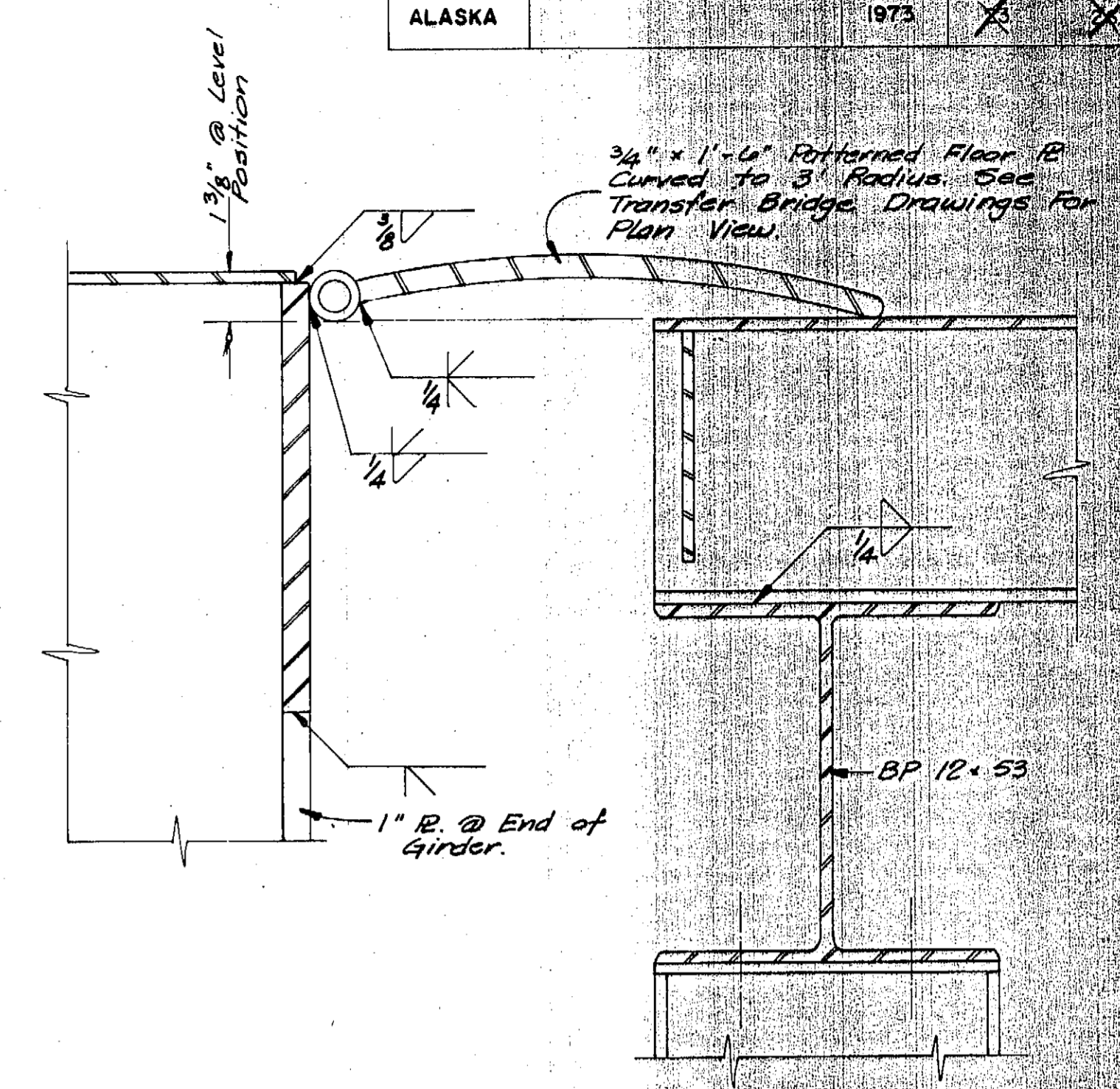
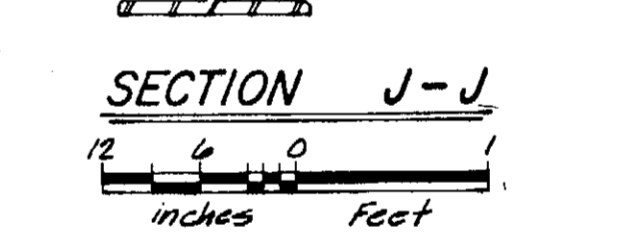
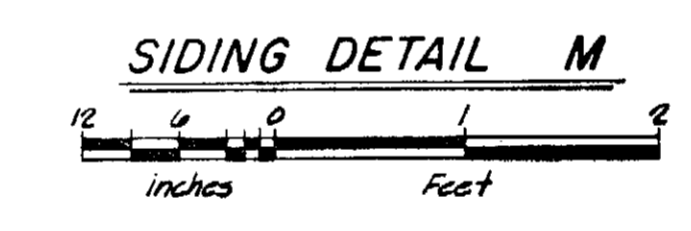
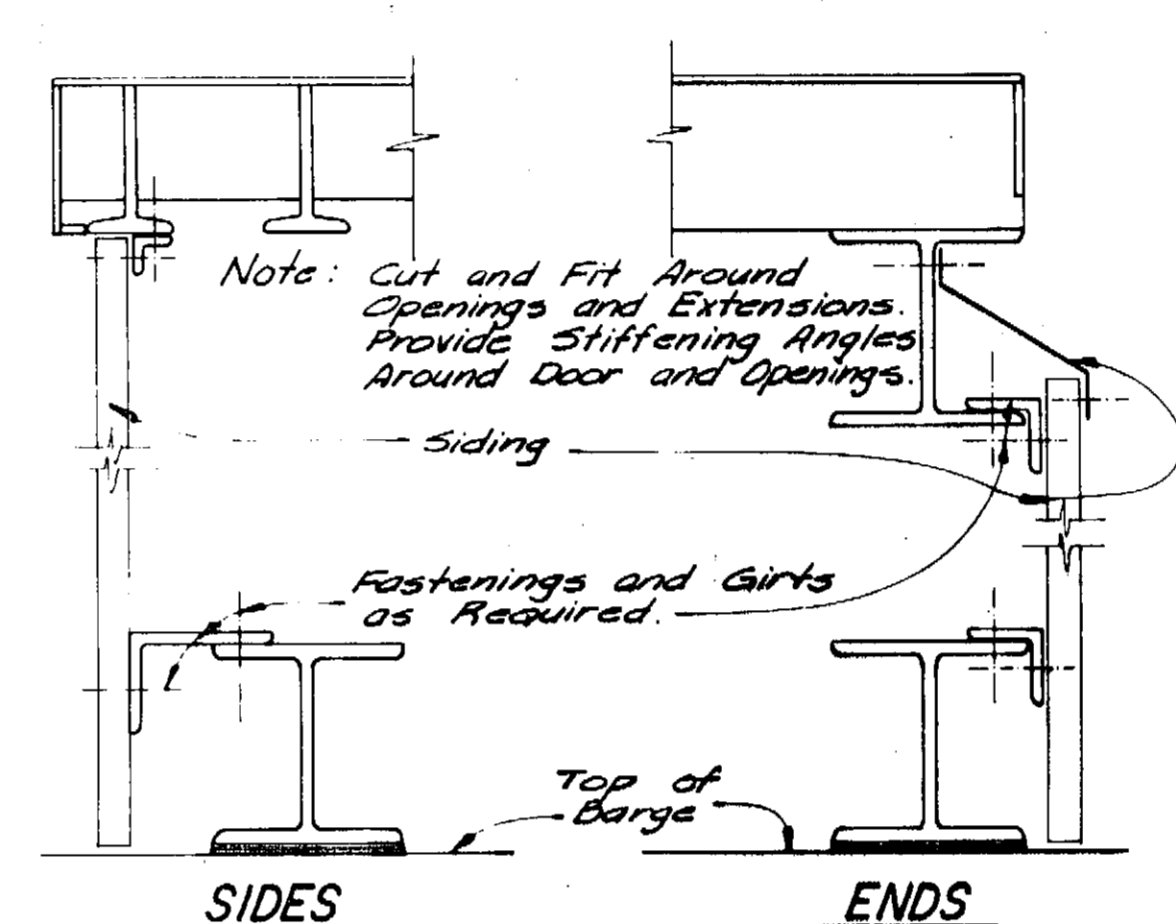
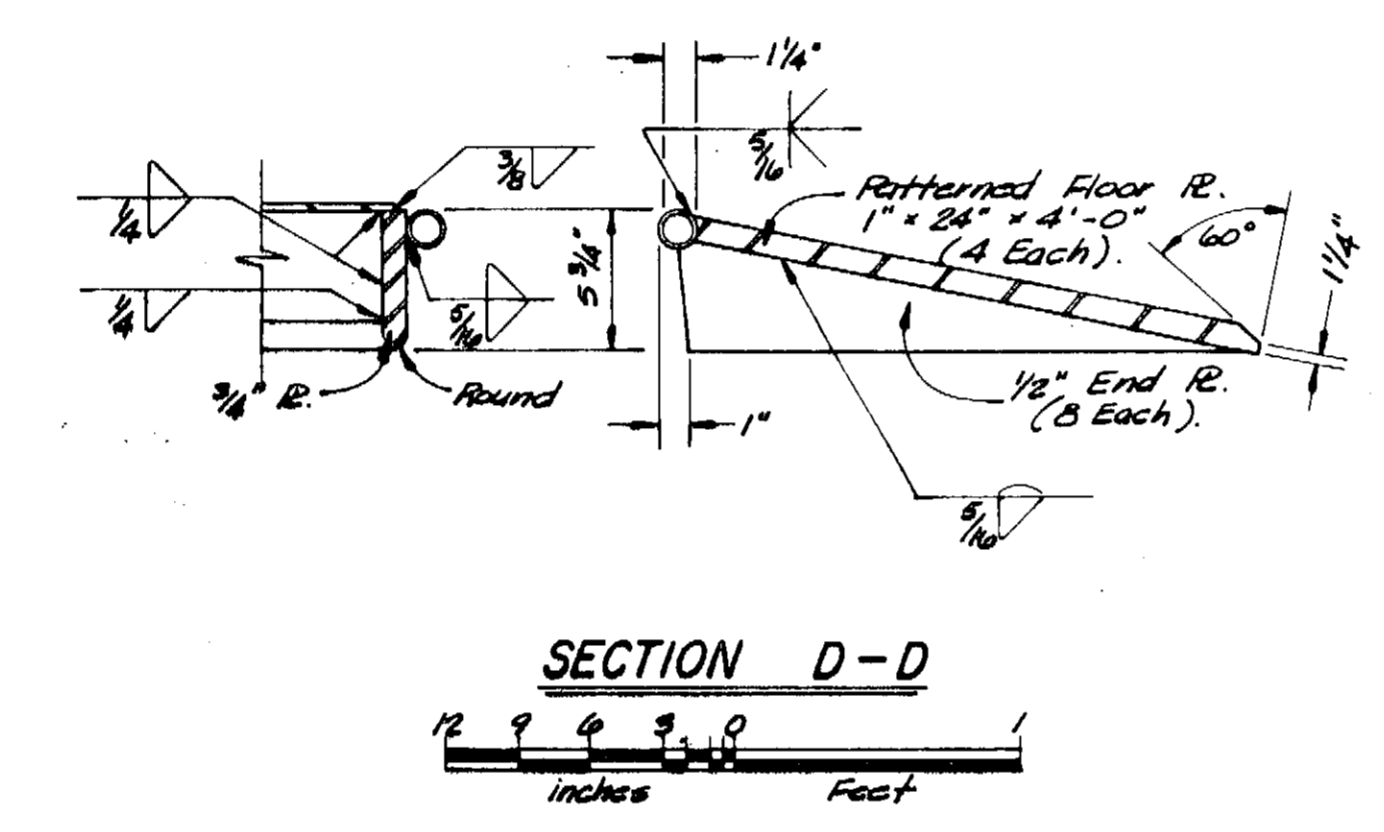
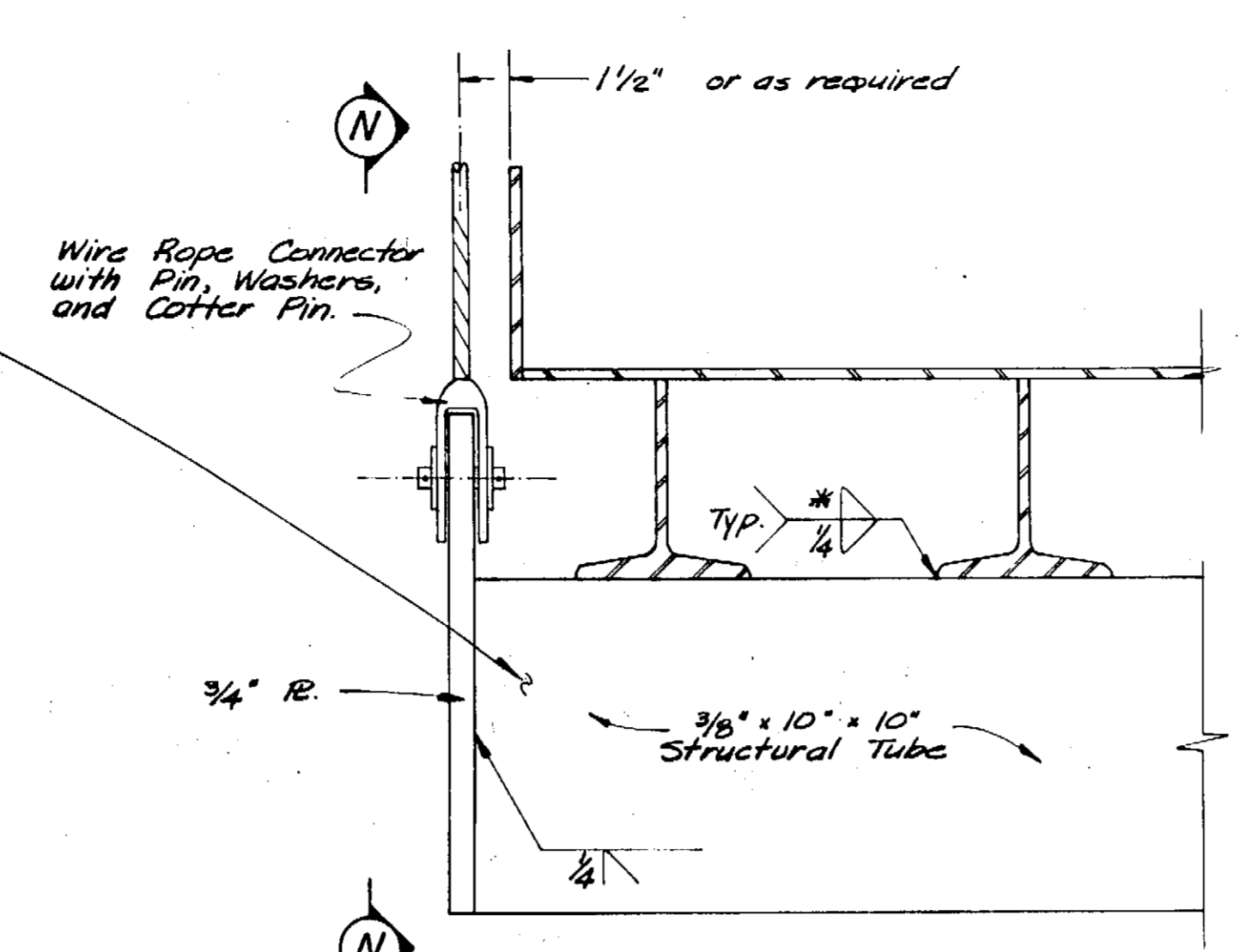
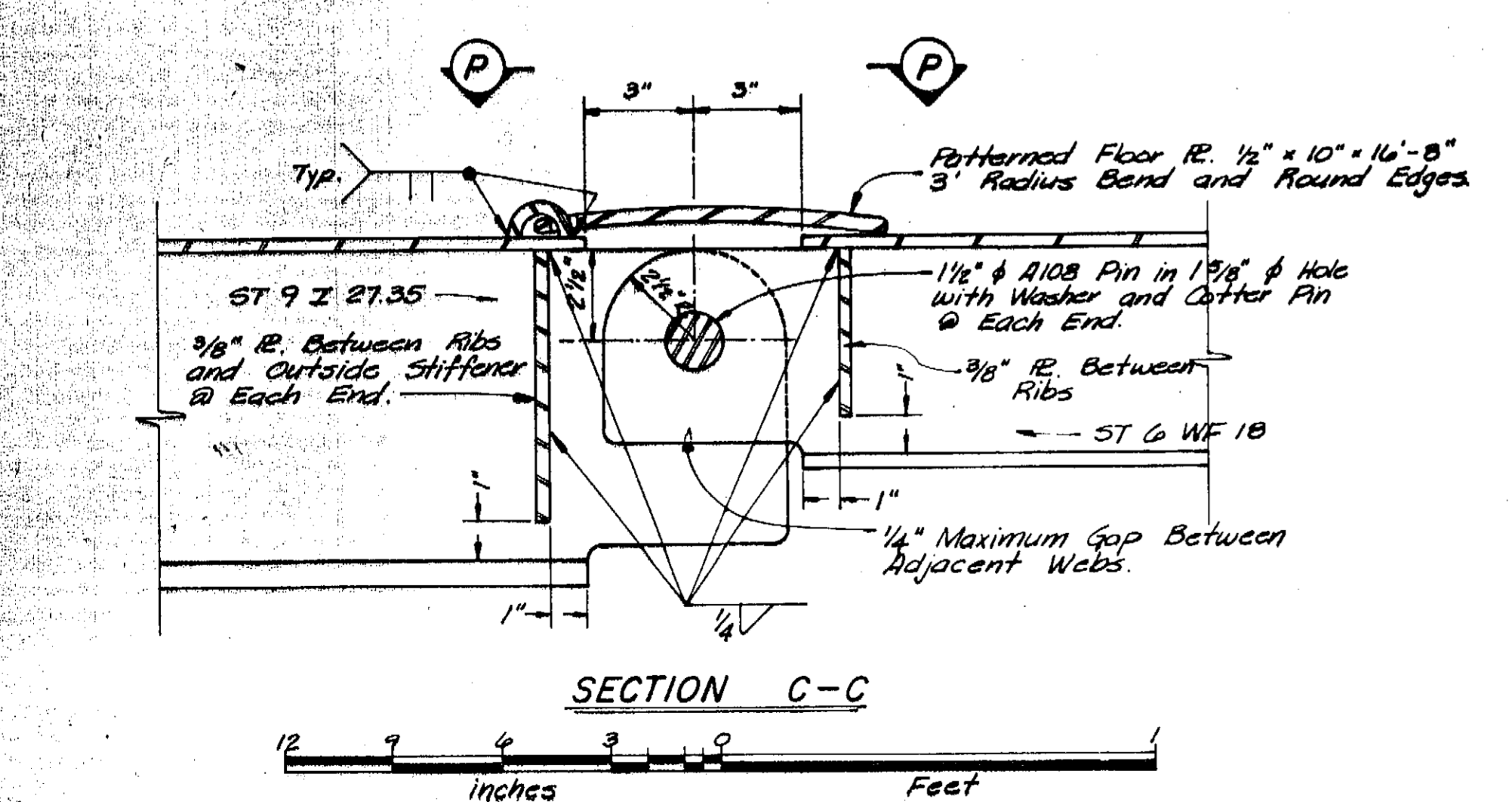
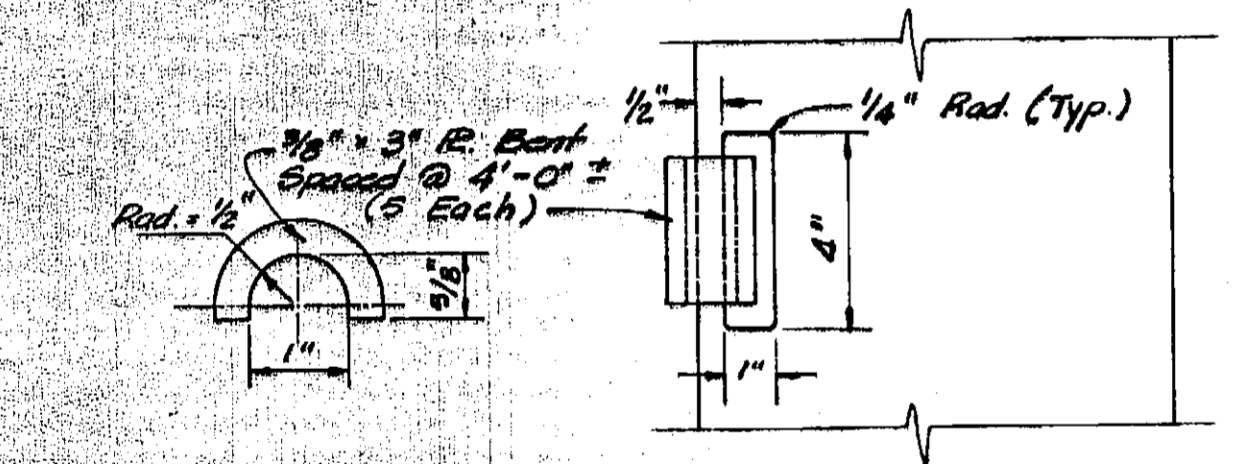
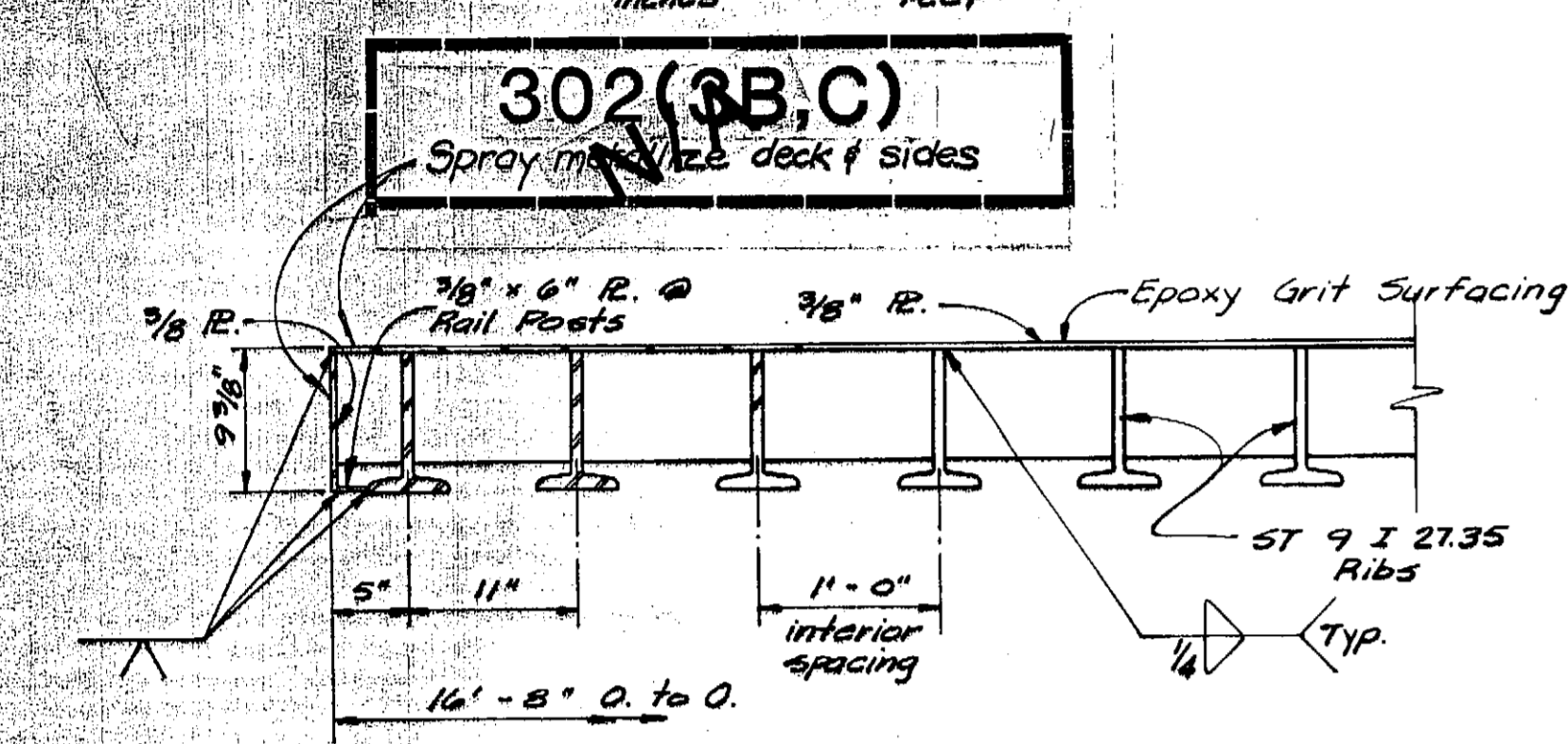
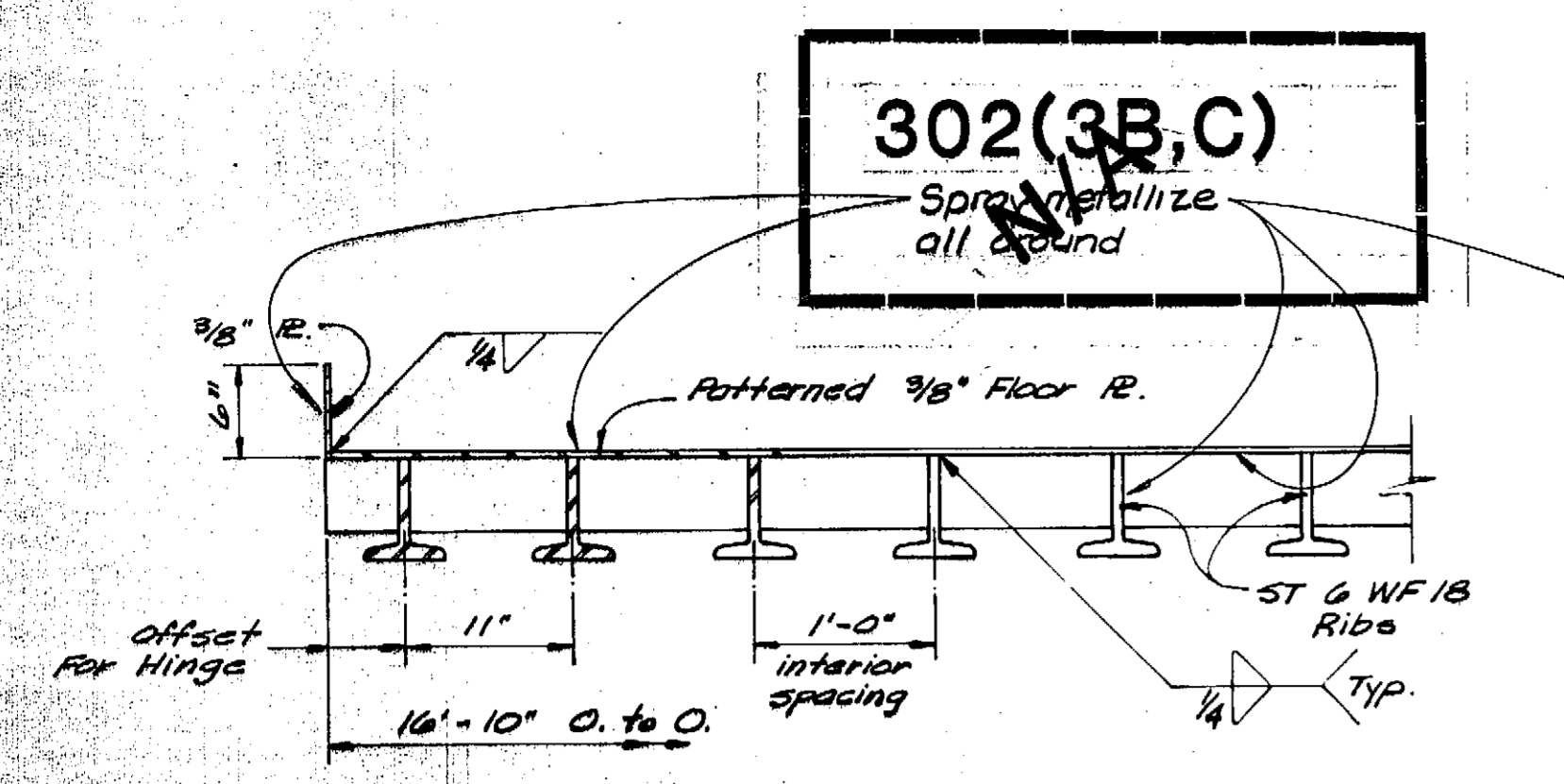
DESIGNED	CHECKED	DRAWN	DATE
PROJECT NUMBER STP-0939/1537	SHEET 17	OF 19	

**KAKE & HOONAH FERRY TERMINALS
 TRANSFER BARGE SUPERSTRUCTURE**

**BOMHOFF & ASSOCIATES
 Engineering and Surveys**
 1020 West Flaxweed Lane
 Anchorage, Alaska 99502



DESIGNED BY	D. A.
DRAWN BY	S. F. L.
CHECKED BY	D. A.
SCALE	As Altd
DATE	
SHEET	OF



AS-BUILT

KAKE & HOONAH FERRY TERMINALS
SUPERSTRUCTURE DETAILS

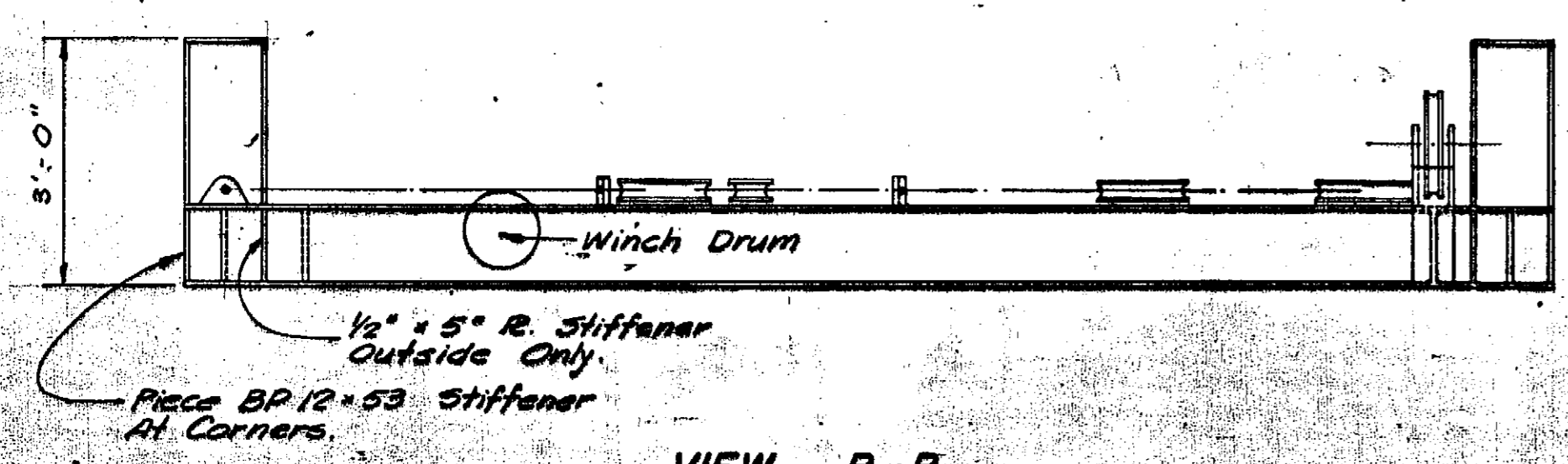
BOMHOFF & ASSOCIATES
Engineering and Surveys
1020 West Fireweed Lane
Anchorage, Alaska 99503

DO NOT SCALE THIS DRAWING - USE DIMENSIONS.			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Kake		Alaska	
EXISTING SUPERSTRUCTURE DETAILS			
DESIGNED BY	CHECKED	DRAWN	DATE
PROJECT NUMBER: STP-0939/75377			
SHEET 12		OF 19	

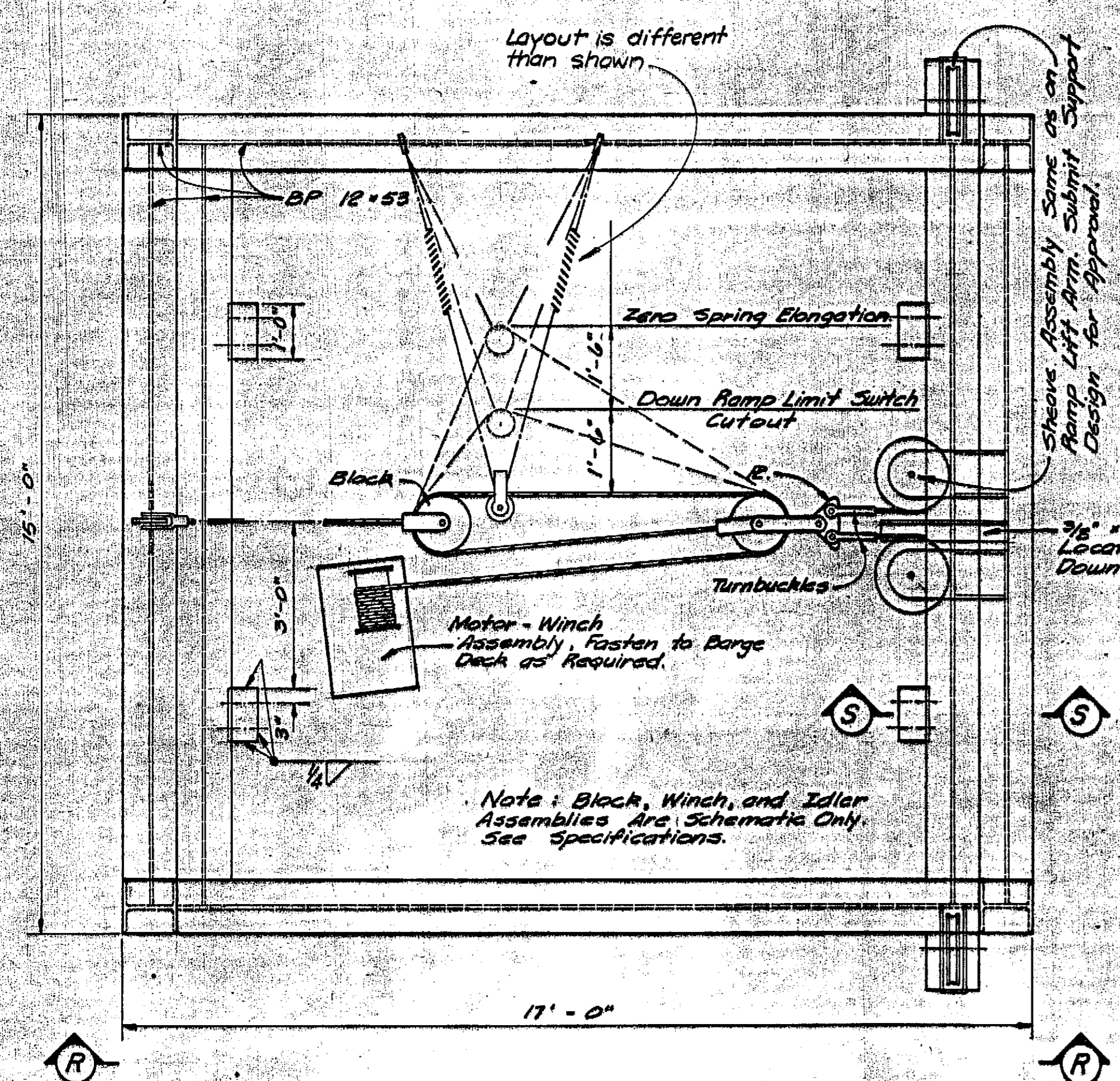
DESIGNED BY: D.N.
DRAWN BY: S.B.L.
CHECKED BY: G.C.S.
SCALE: As Noted
DATE: _____
SHEET: 12 OF 19

Welding Notes: Bevel Weld All BP Flange to Flange Connections and 1/4" Fillet Weld Each Side Web Connections or Equivalent.

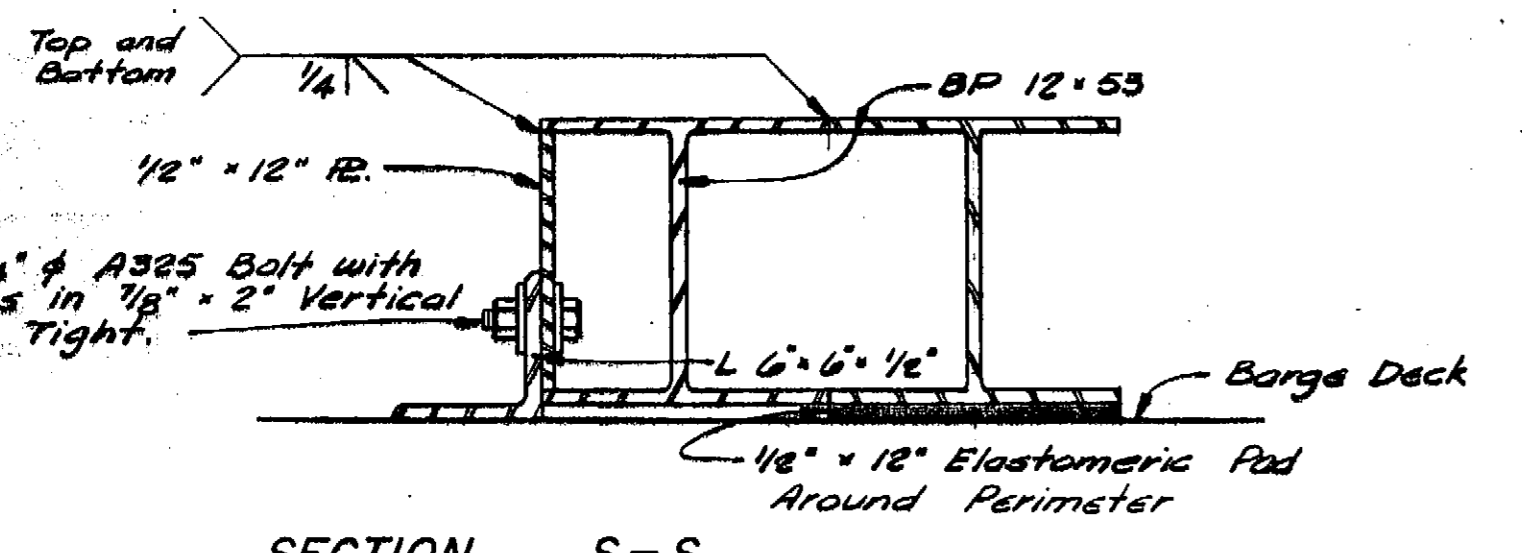
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA		1973	13	19



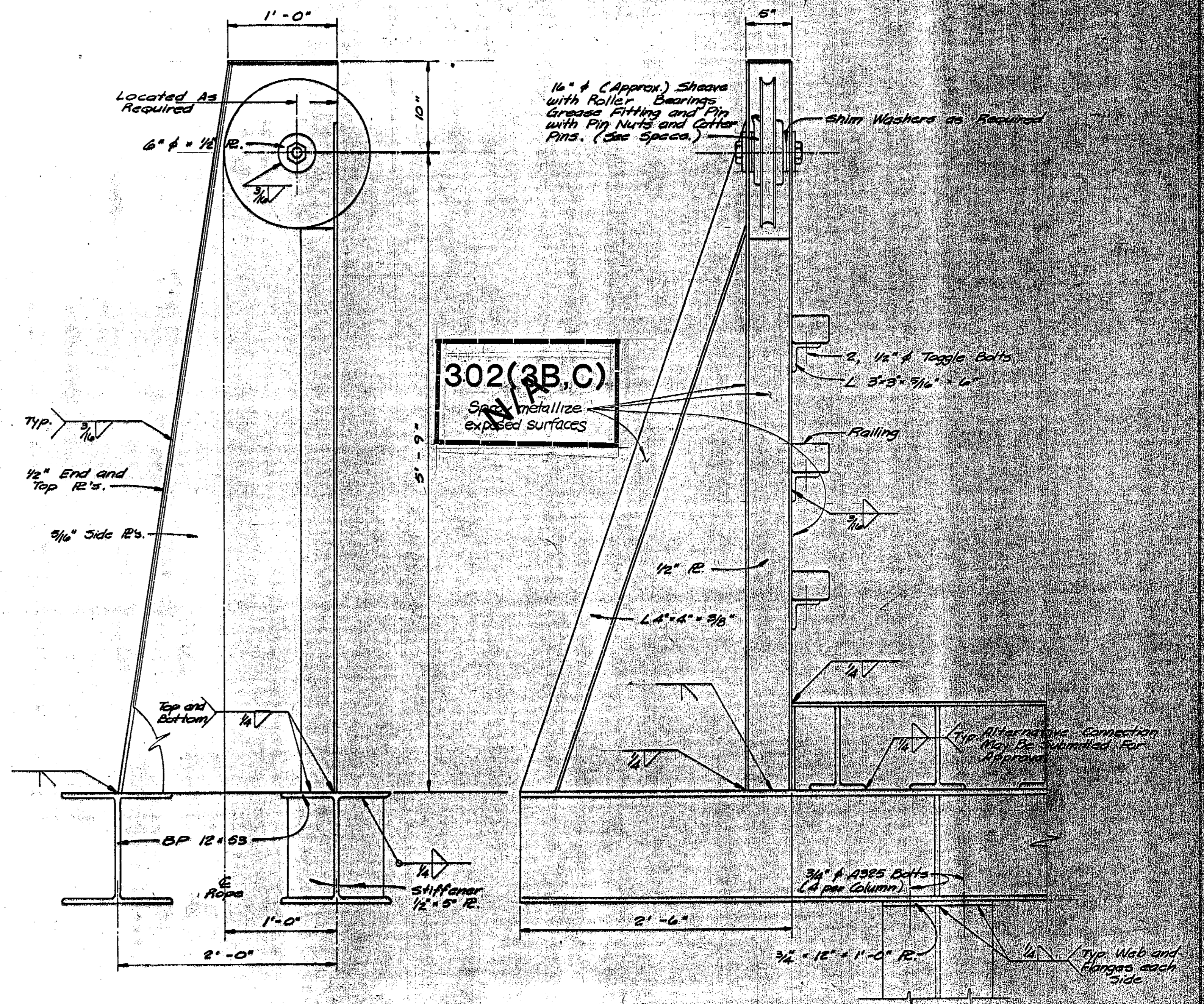
VIEW R-R



SECTION G-G
inches Feet



SECTION S-S
inches Feet



RAMP LIFT ARM
inches Feet

AS-BUILT

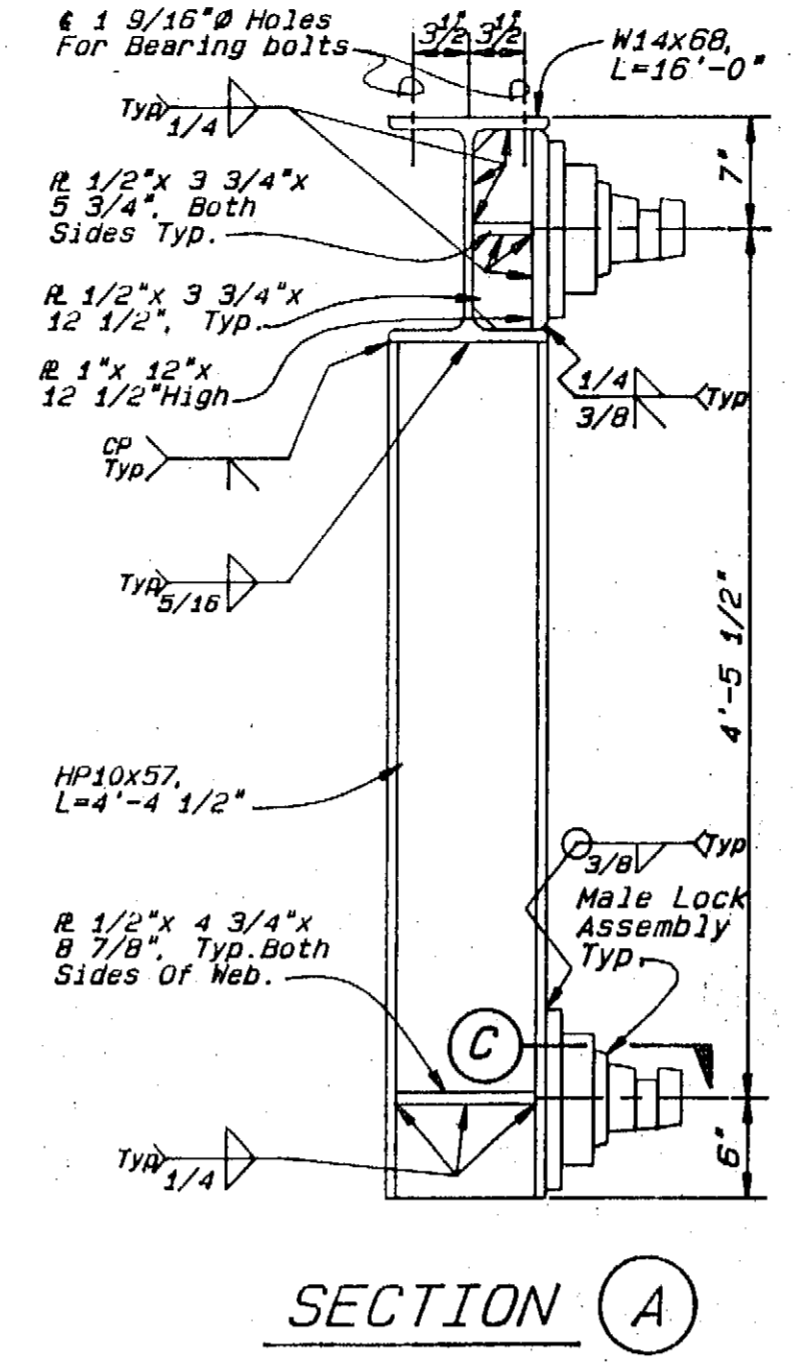
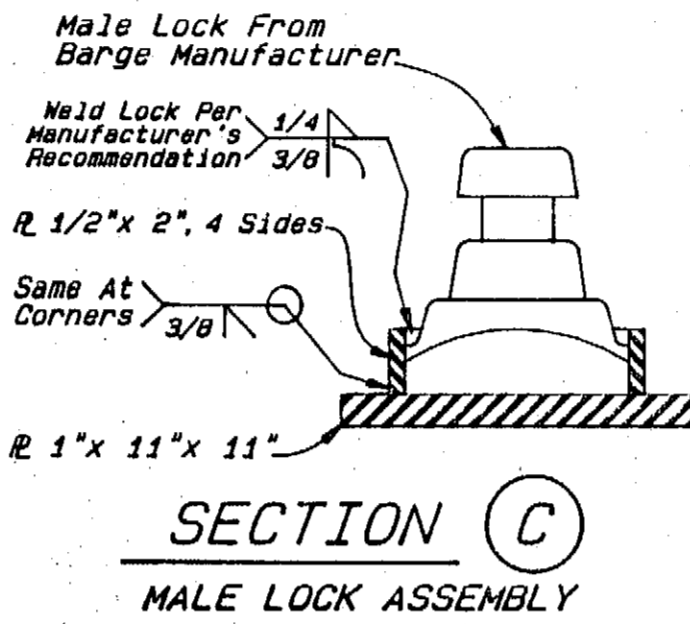
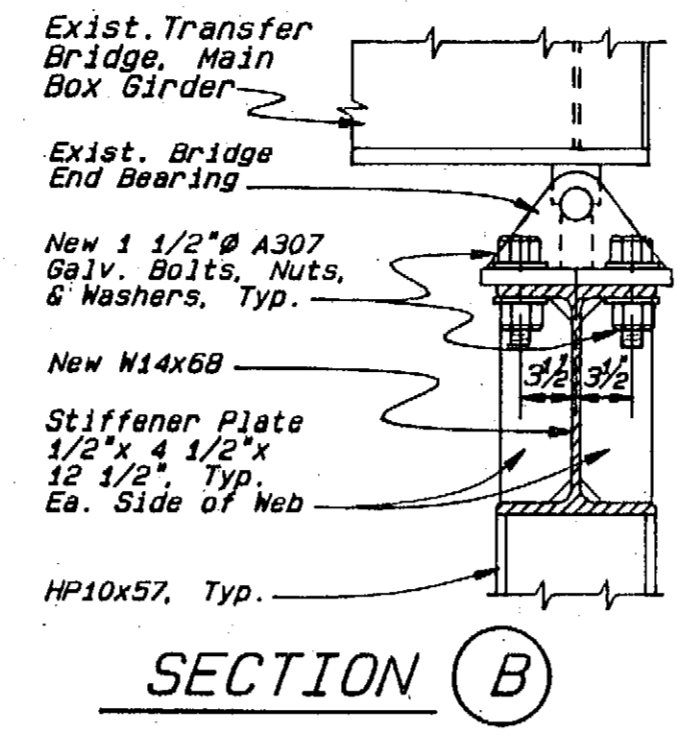
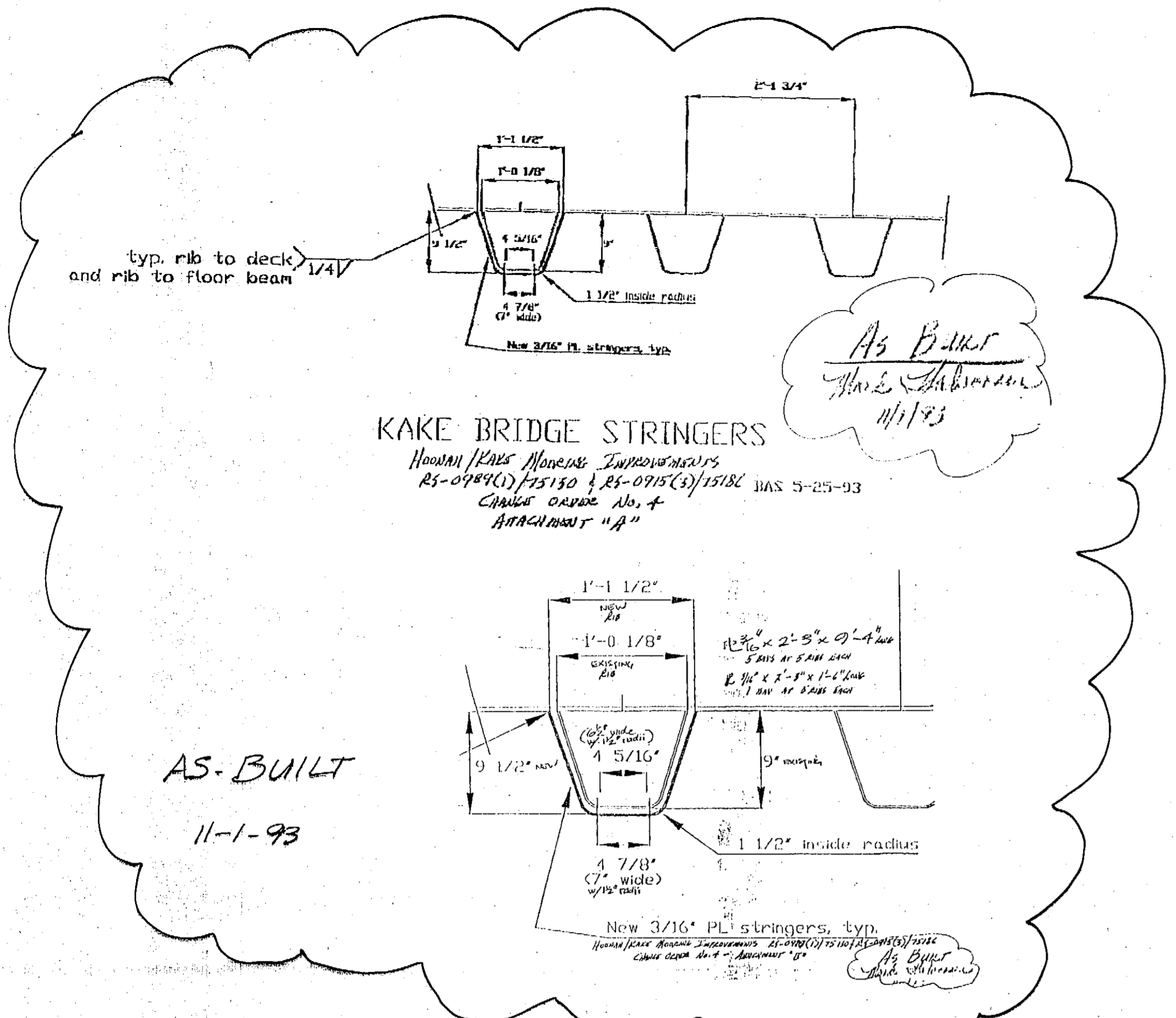
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Kake		Alaska	
EXISTING RAMP LIFT DETAILS			
DESIGNED BY	CHECKED	DRAWN	DATE
PROJECT NUMBER	STP-0939/75377	SHEET	13 OF 19

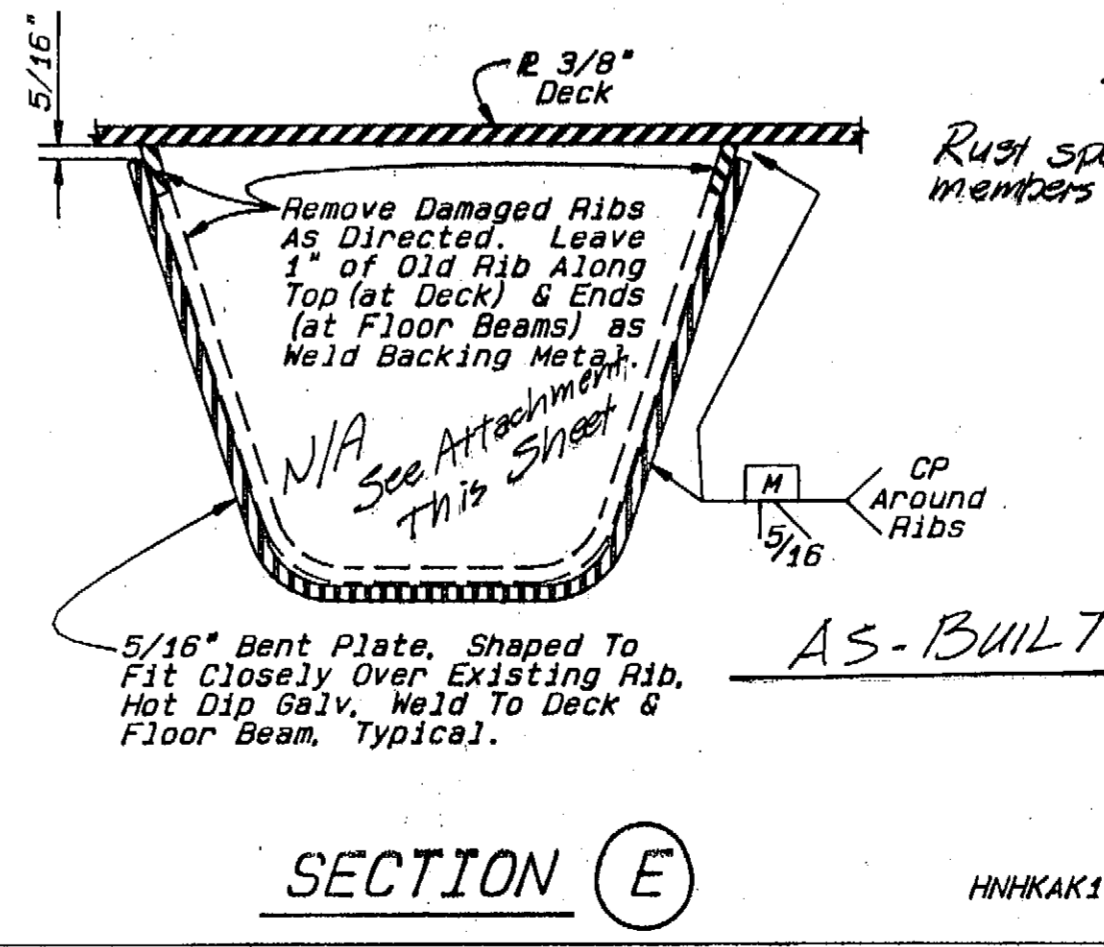
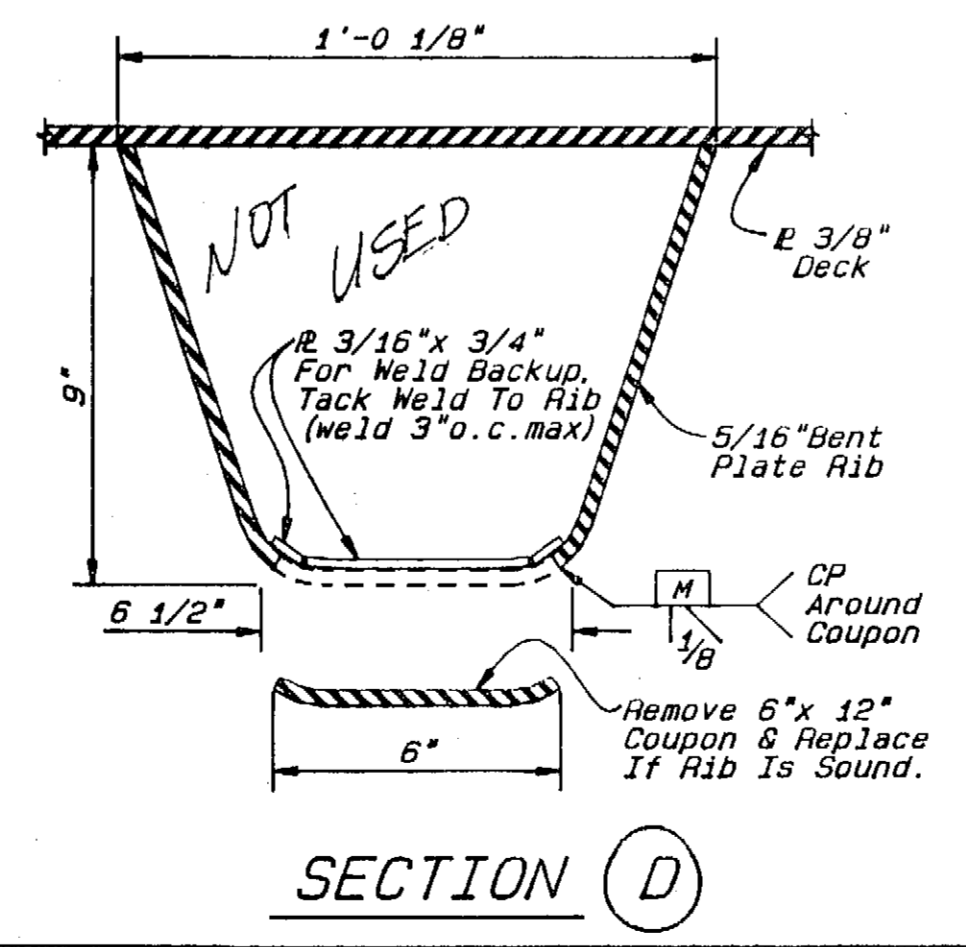
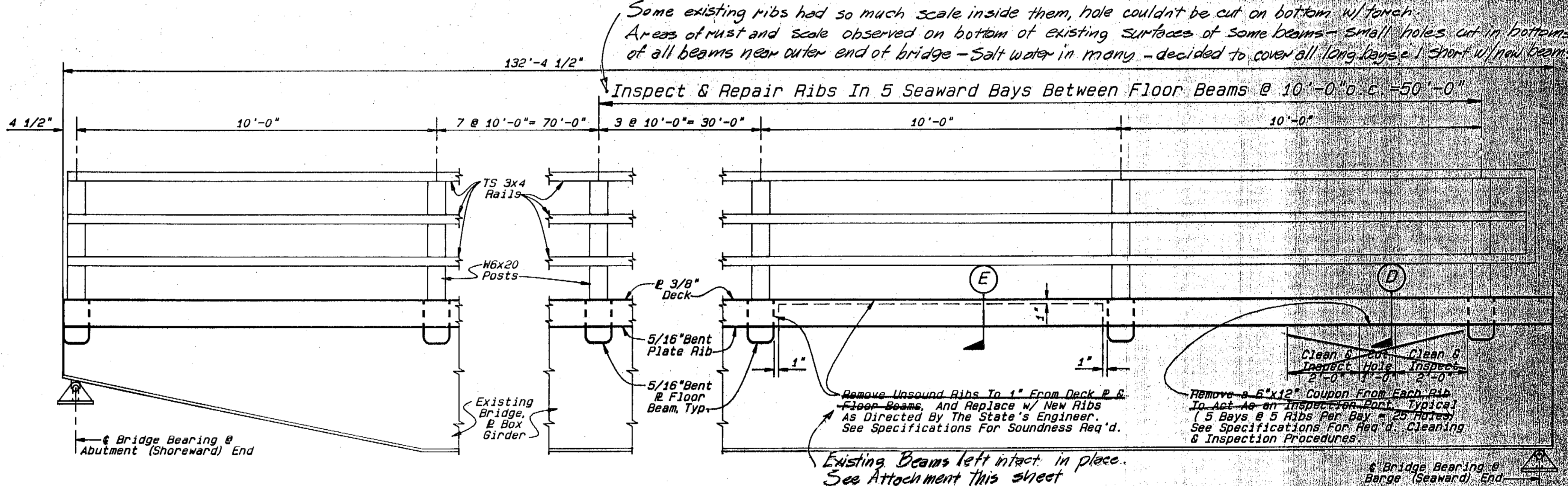
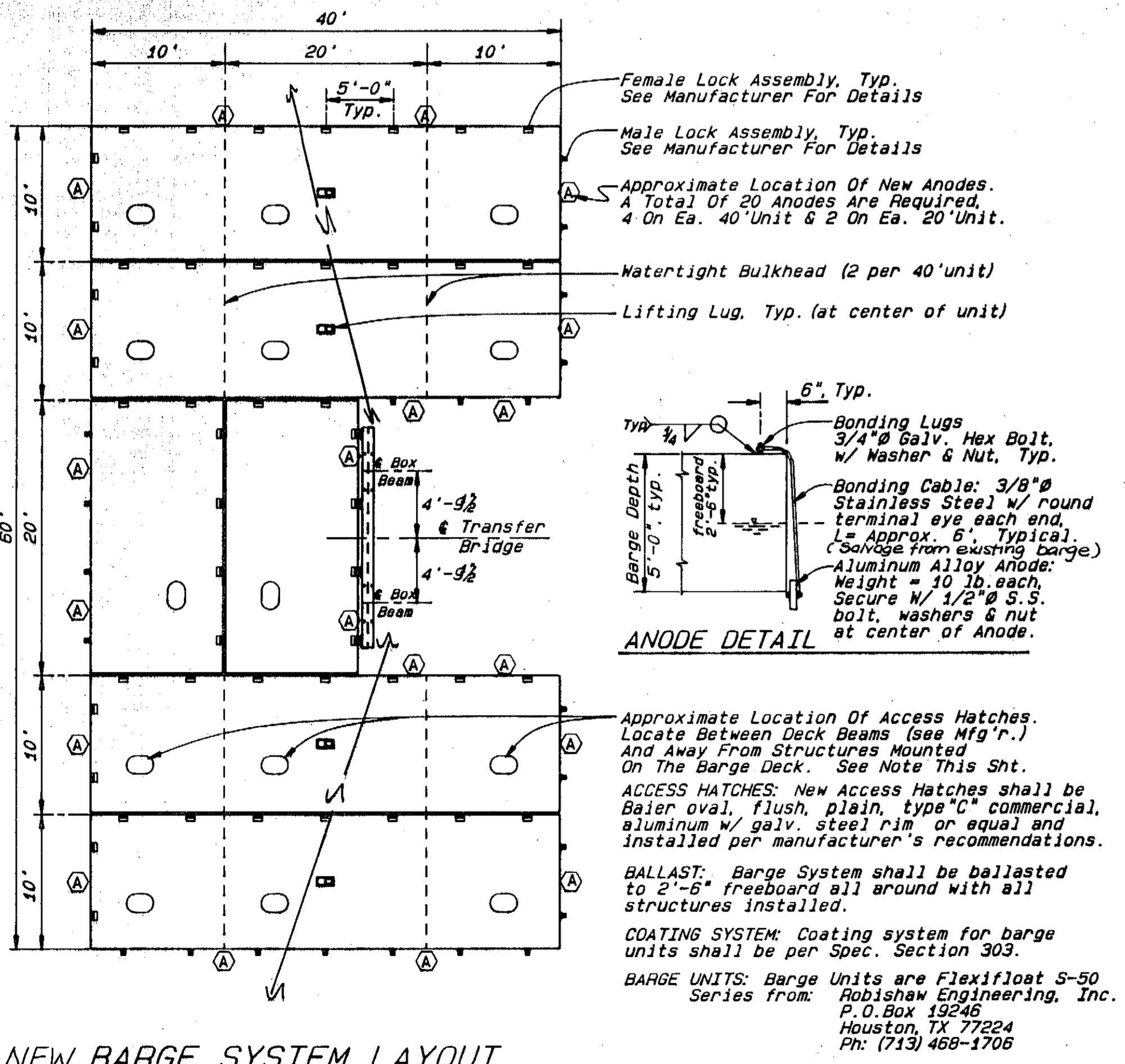
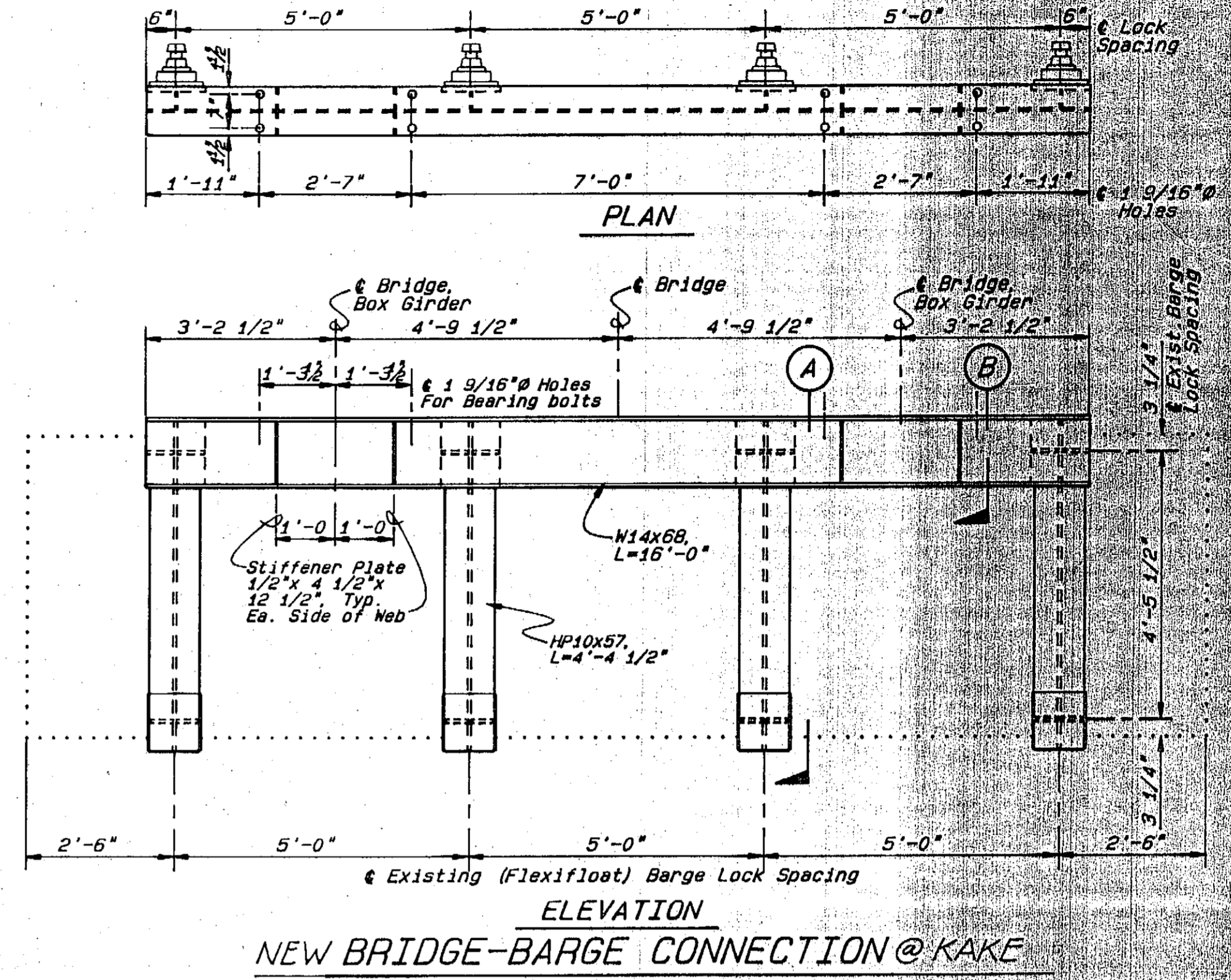
KAKE & HOONAH FERRY TERMINALS
RAMP LIFT DETAILS

BOMHOFF & ASSOCIATES
Engineering and Surveys
1020 West Fireweed Lane
Anchorage, Alaska 99503

	DESIGNED BY	D. N.
	DRAWN BY	S.B.L.
	CHECKED BY	D. N.
	DATE	As Noted
SHEET		13 OF 19



NOTE: Existing Barge Units Are Flexifloat S-50 Series From: Robishaw Engineering, Inc. P.O. Box 19246 Houston, Texas 77224 Phone (713) 468-1706



Some existing ribs had so much scale inside them, hole couldn't be cut on bottom w/ torch. Areas of rust and scale observed on bottom of existing surfaces of some beams - small holes cut in bottoms of all beams near outer end of bridge - salt water in many - decided to cover all long bays & short w/ new beams.

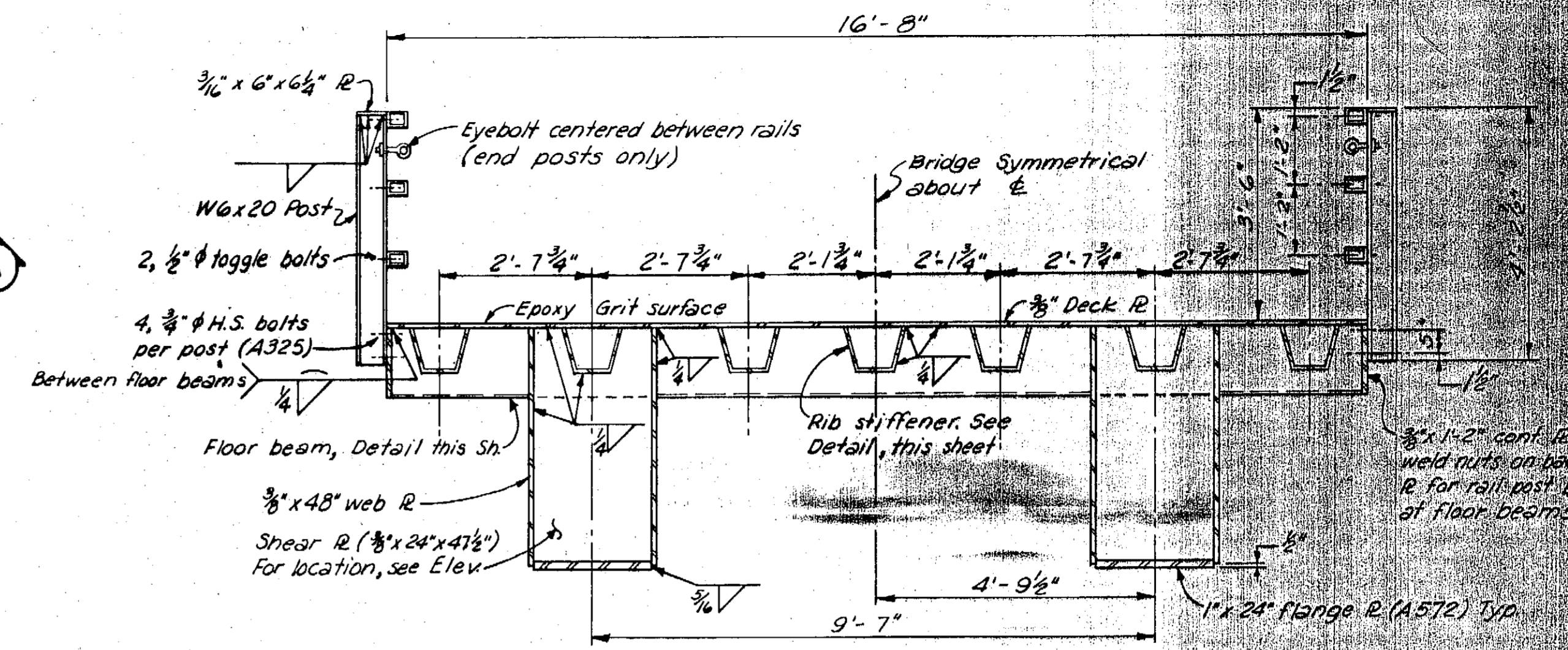
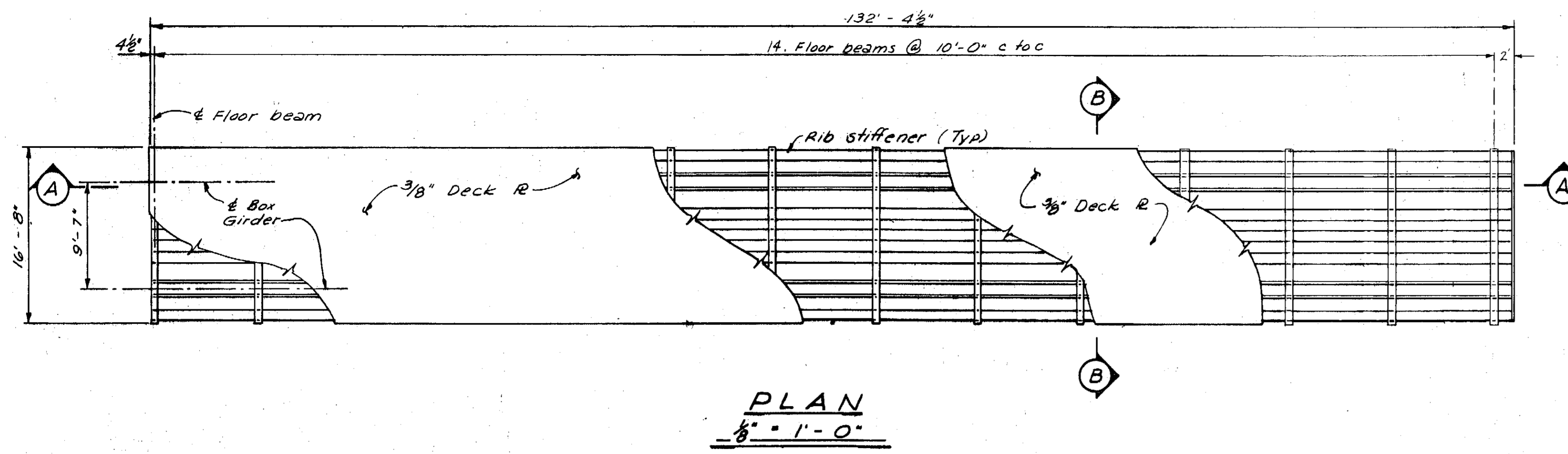
Longitudinal Section Along Existing Transfer Bridge

Rust spots showing in areas of all bridge members - salt water in all cross beam deck members on outer half of bridge - coming out of holes drilled for electrical conduit

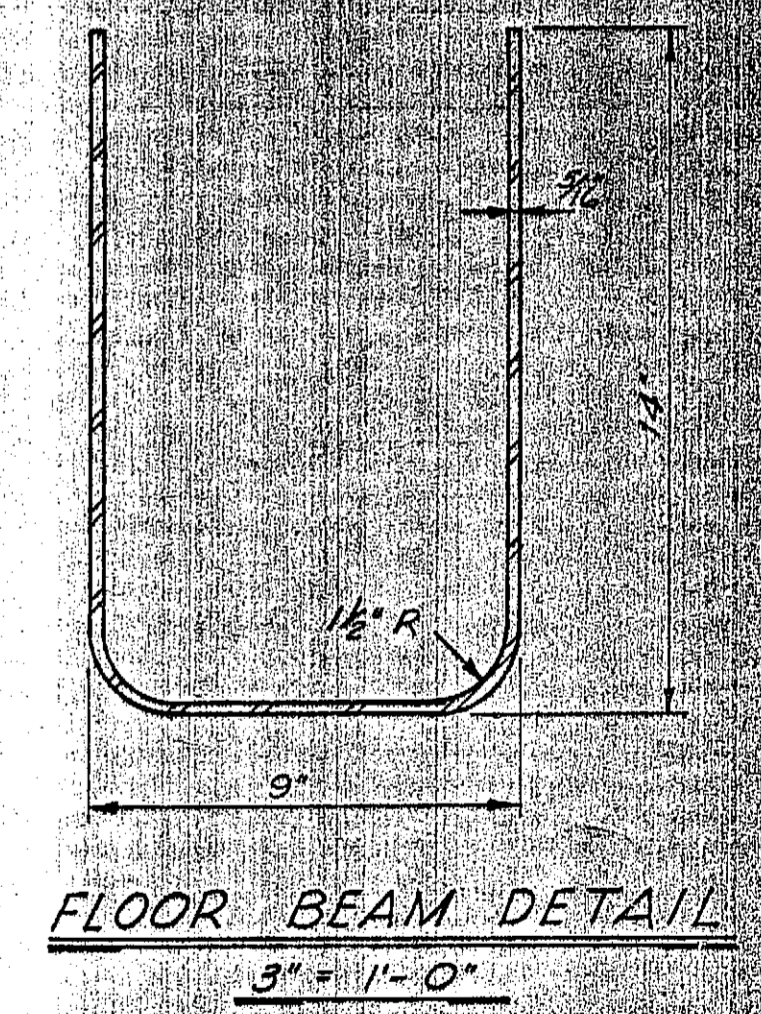
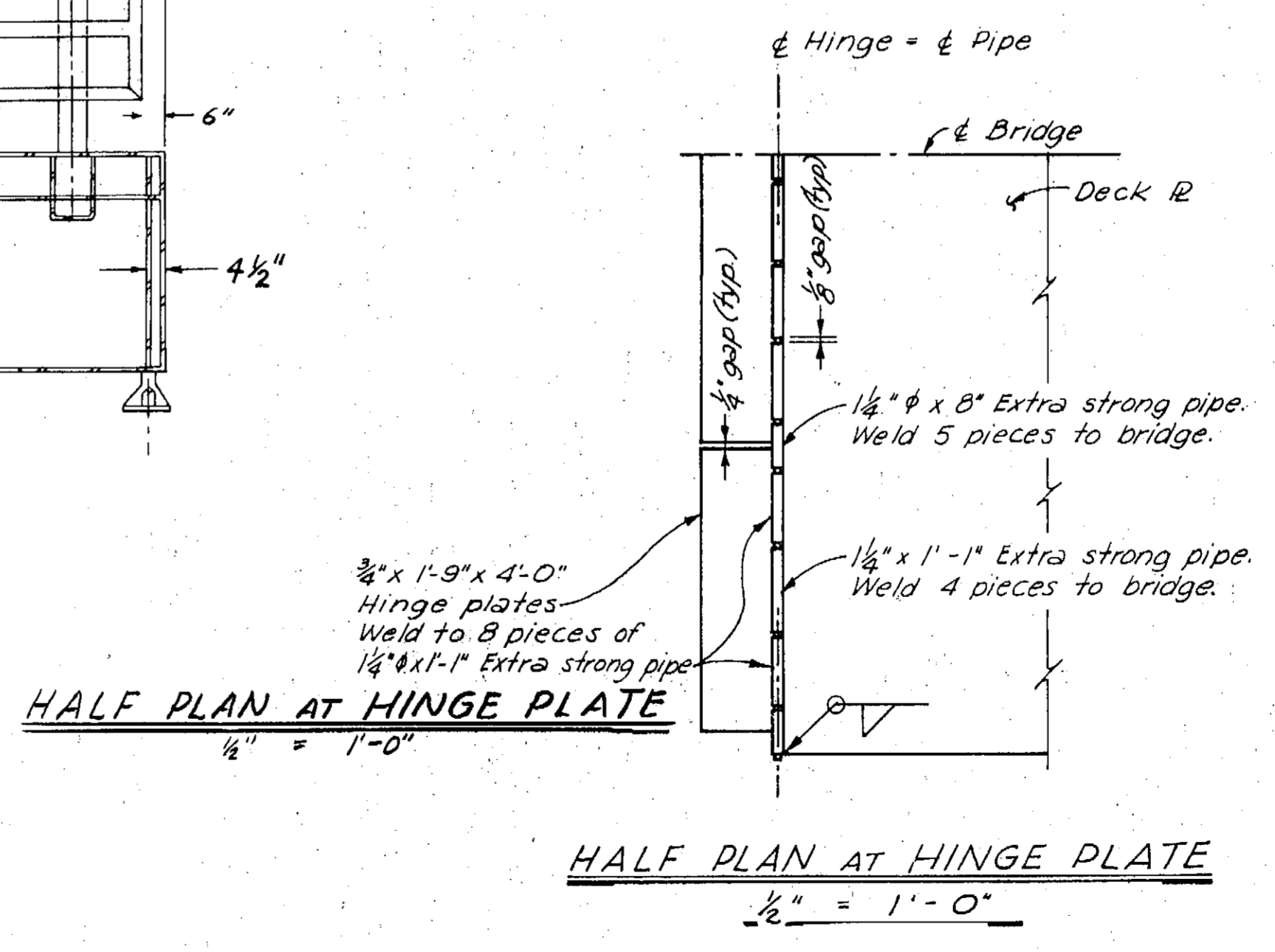
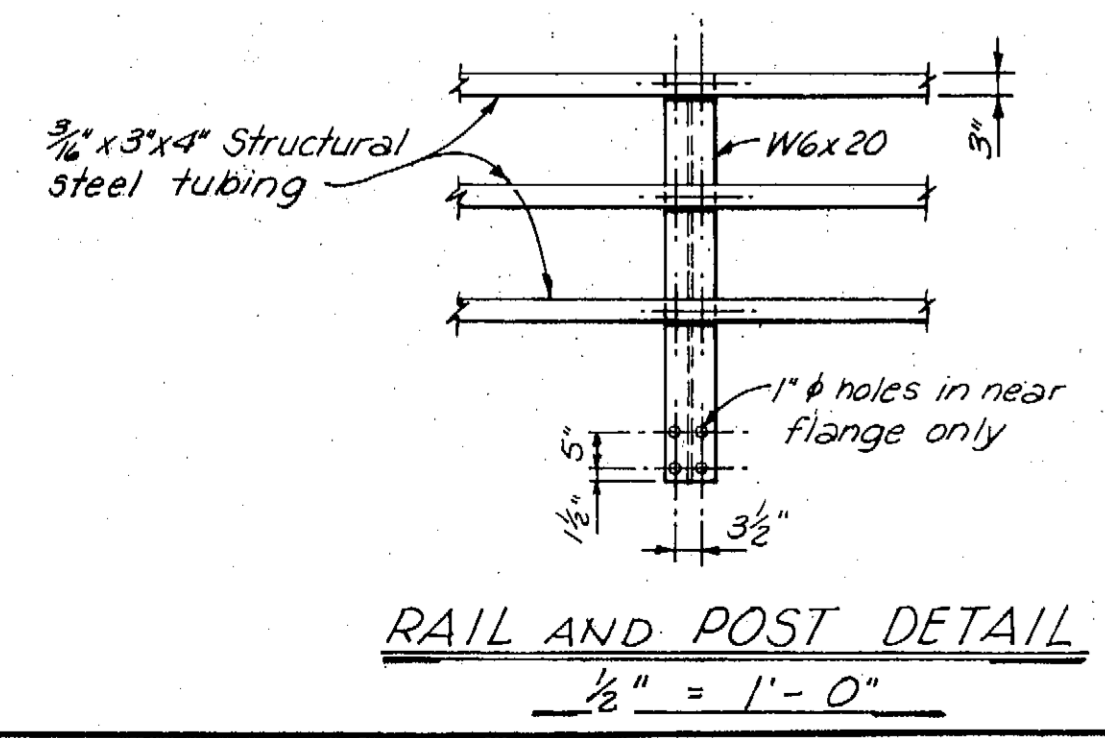
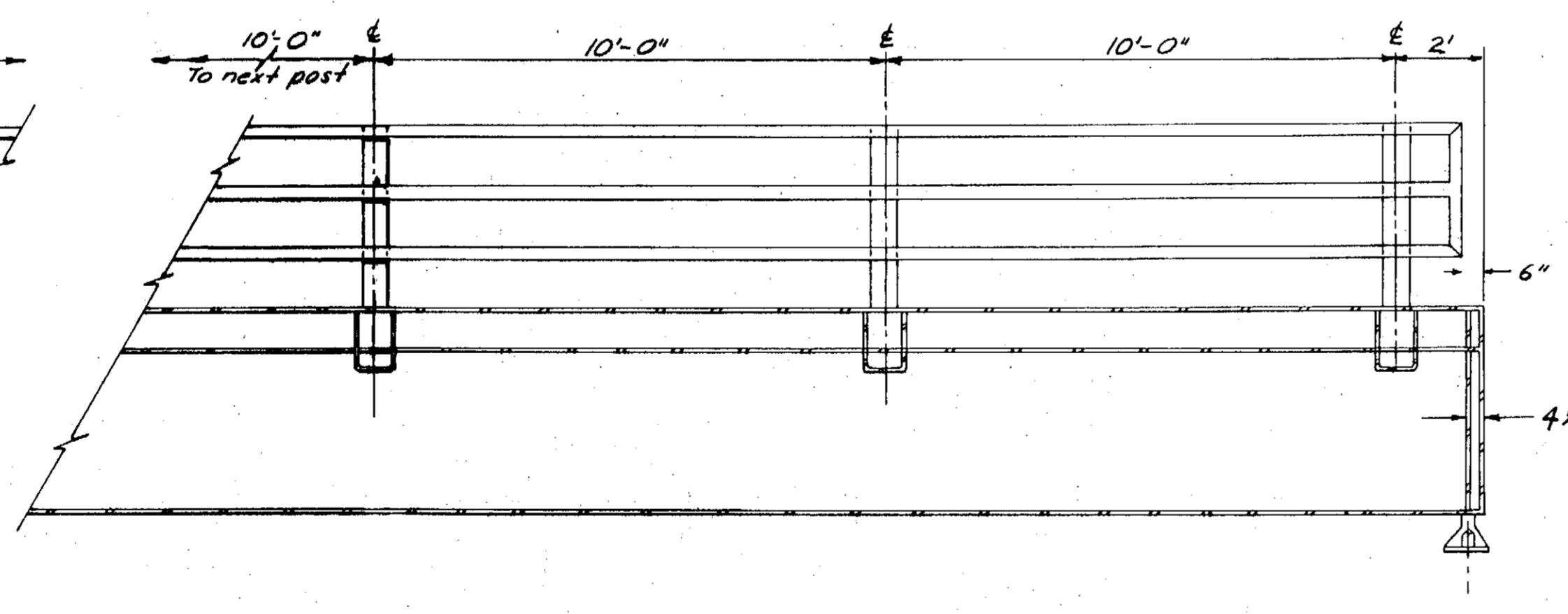
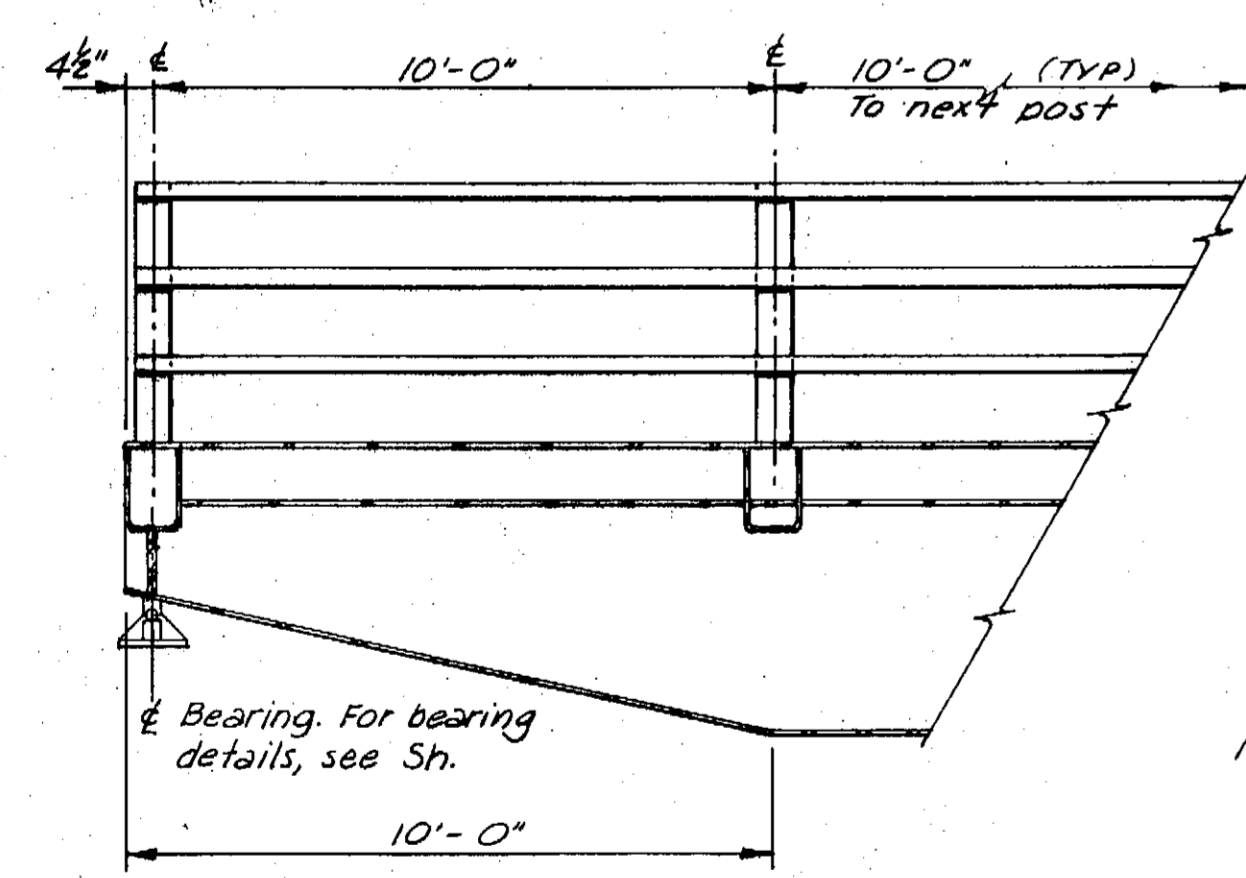
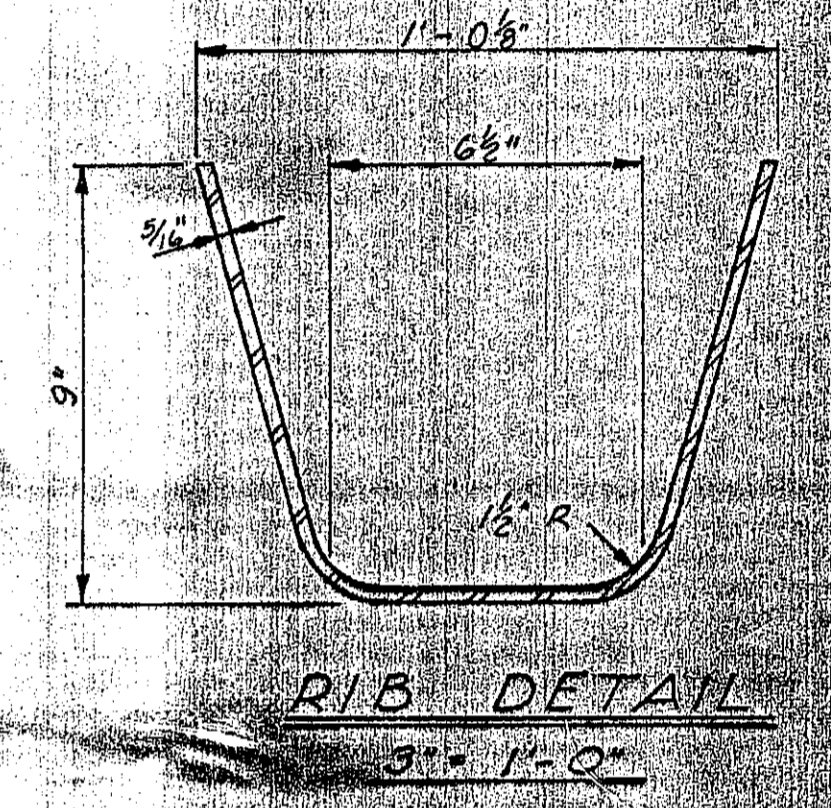
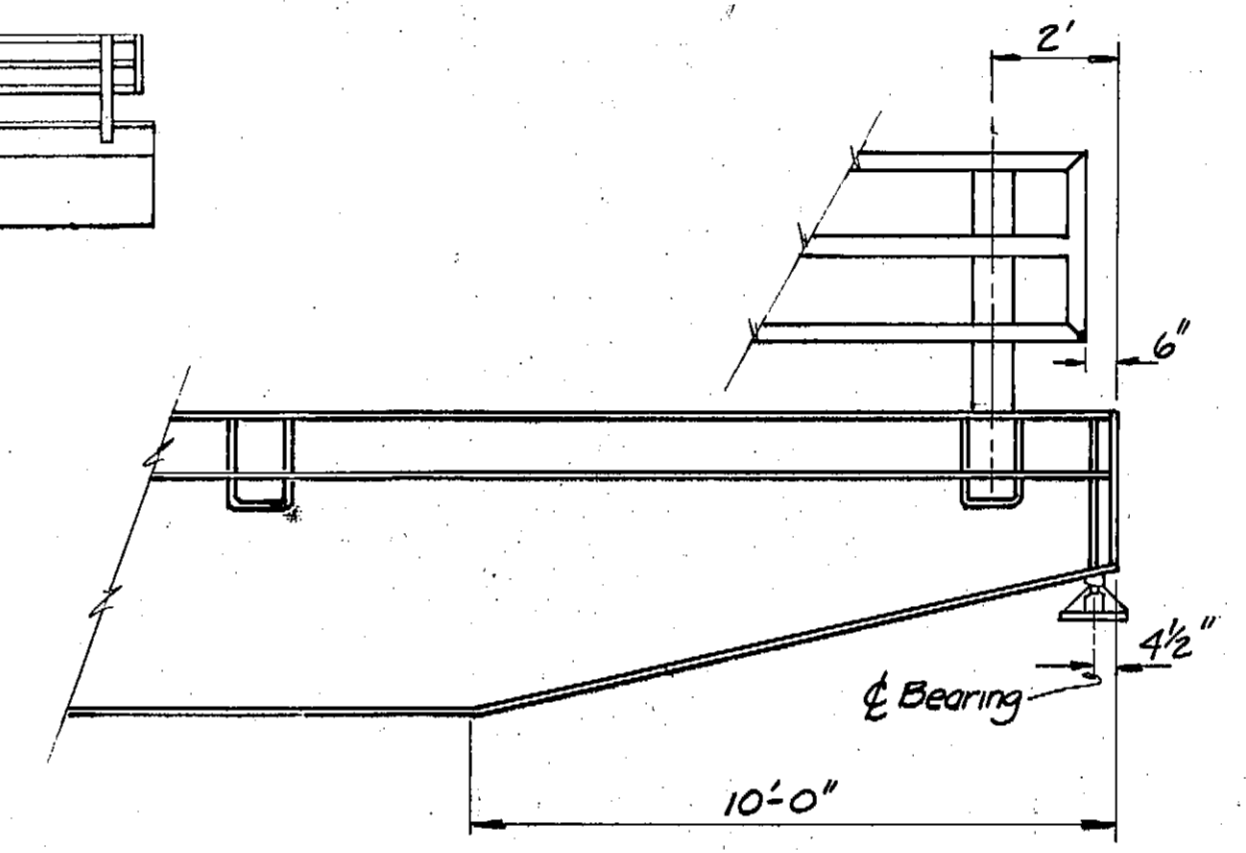
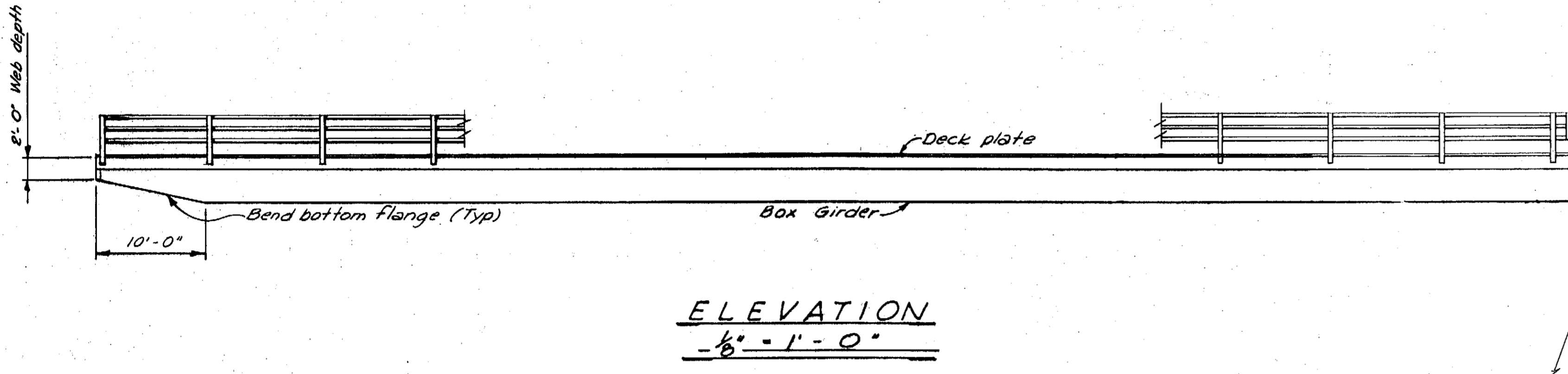
NOTE: Existing bridge has a spray metallized zinc coating. Repair damaged coating with spray metallized zinc to 6 mils per Section 302. Zinc stick method used as per approved request.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAKE		ALASKA	
KAKE BRIDGE REPAIR & BARGE DETAILS			
DESIGNED BS	CHECKED JS	DRAWN WN	DATE
PROJECT NUMBER STP-0939/75377	SHEET 14		OF 19

HHKAK10



Note: Notch girder web plates for floor beams. Notch floor beams and shear plates (where applicable) for rib stiffeners.



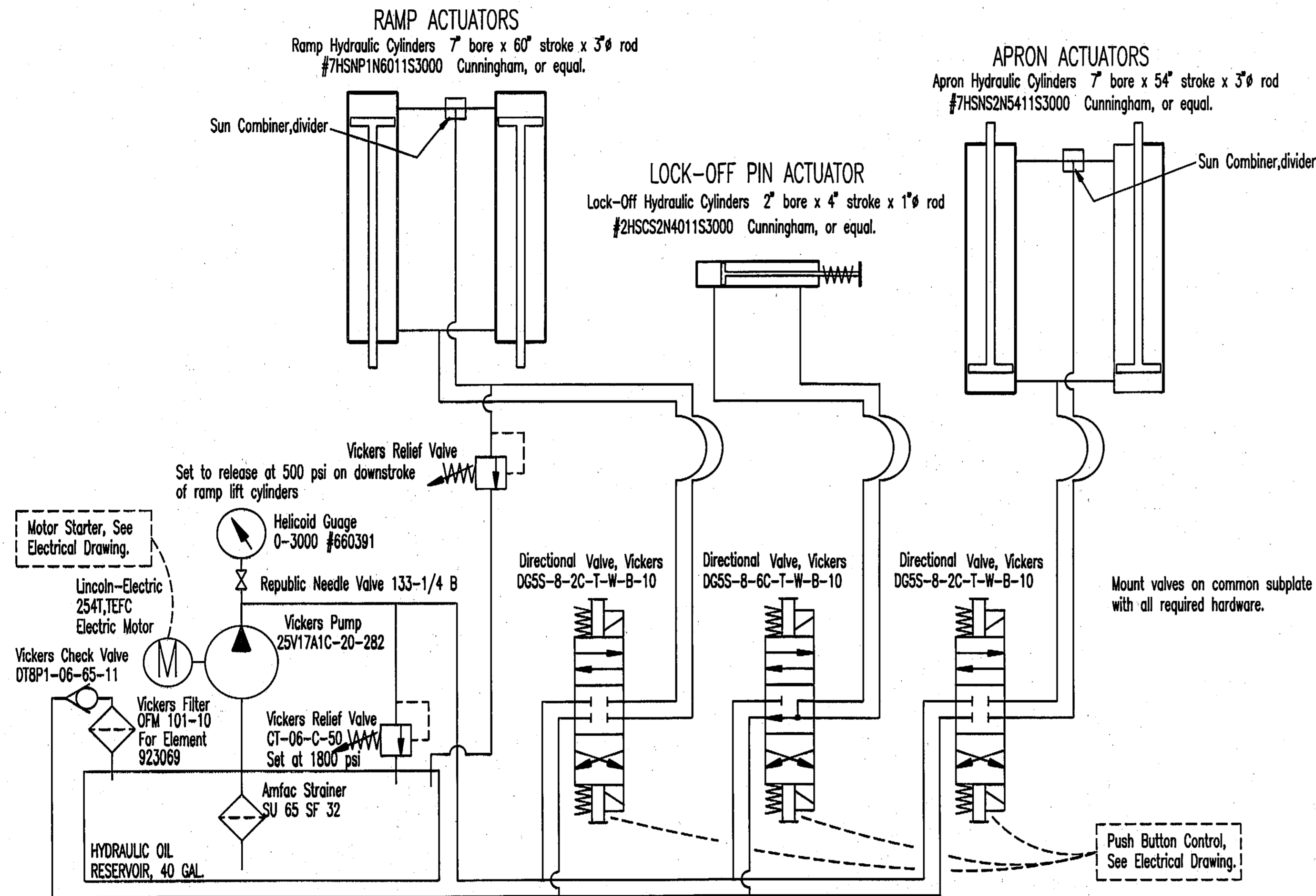
AS-BUILT

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TR-0926 (2)	1976	X	X

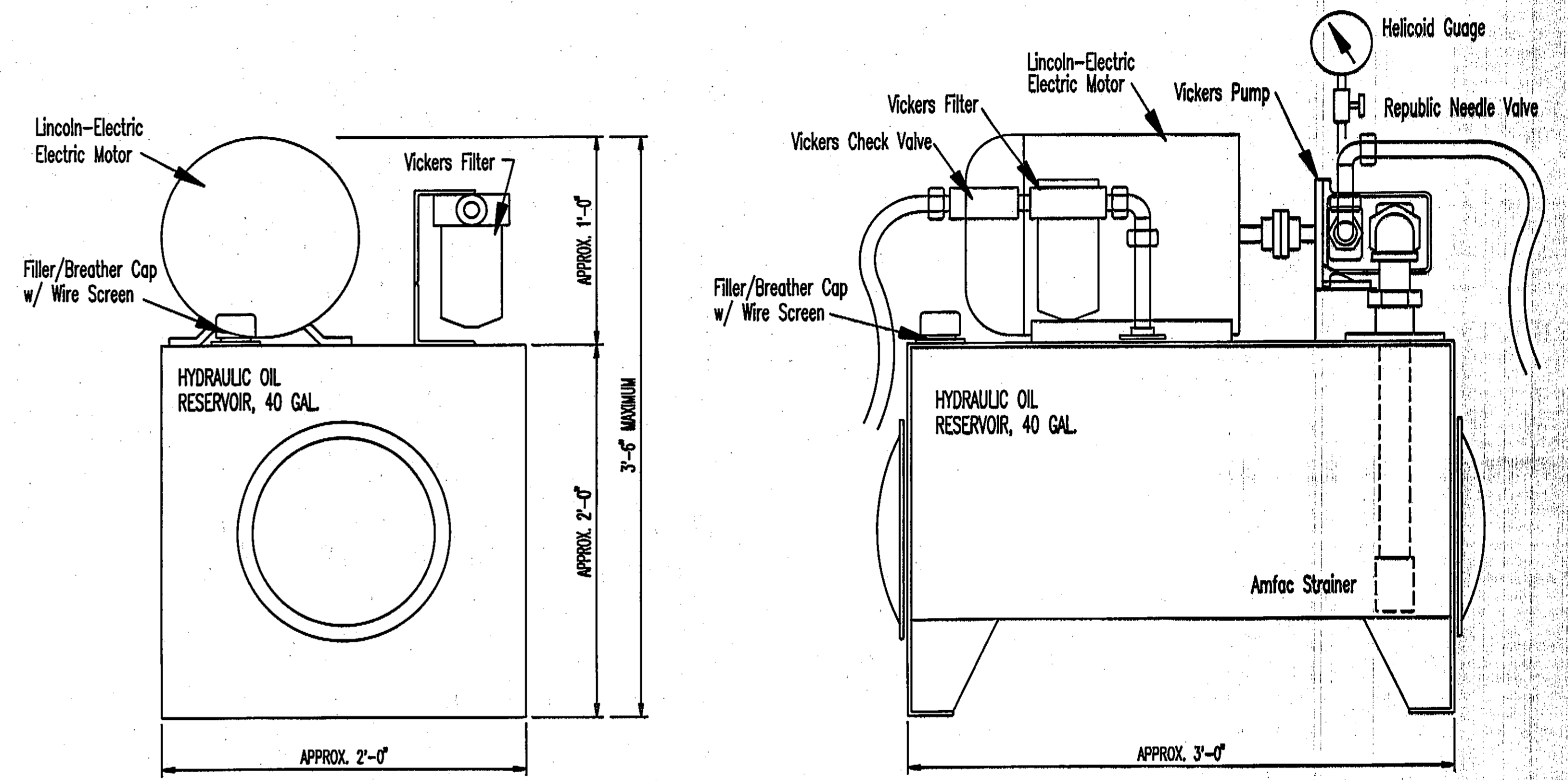
Alaska
Alaska
EXISTING
TRANSFER BRIDGE DETAILS

SCALE	SURVEYED	APPROVED
DESIGNED	DRAWN	
CHECKED	DATE	DIRECTOR
PROJECT NUMBER	SHEET 15 OF 19	

STR-0939/75377

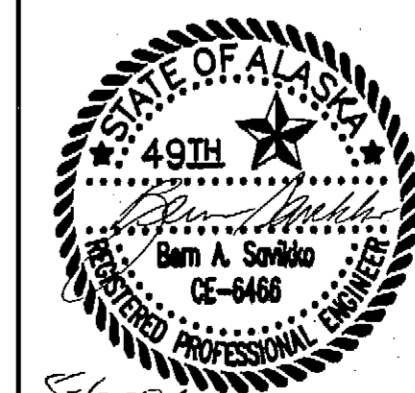


HYDRAULIC SCHEMATIC

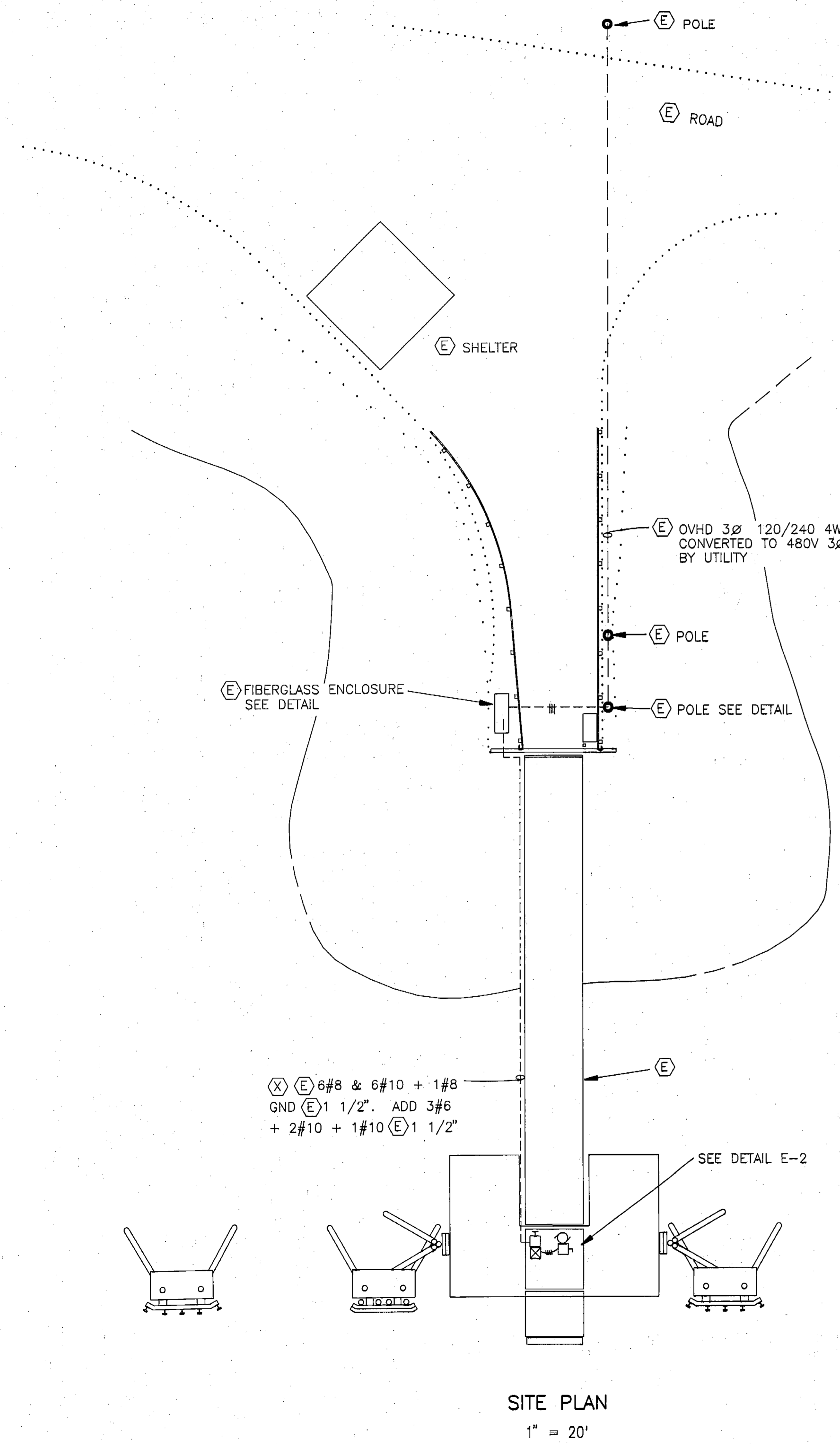


HYDRAULIC POWER UNIT

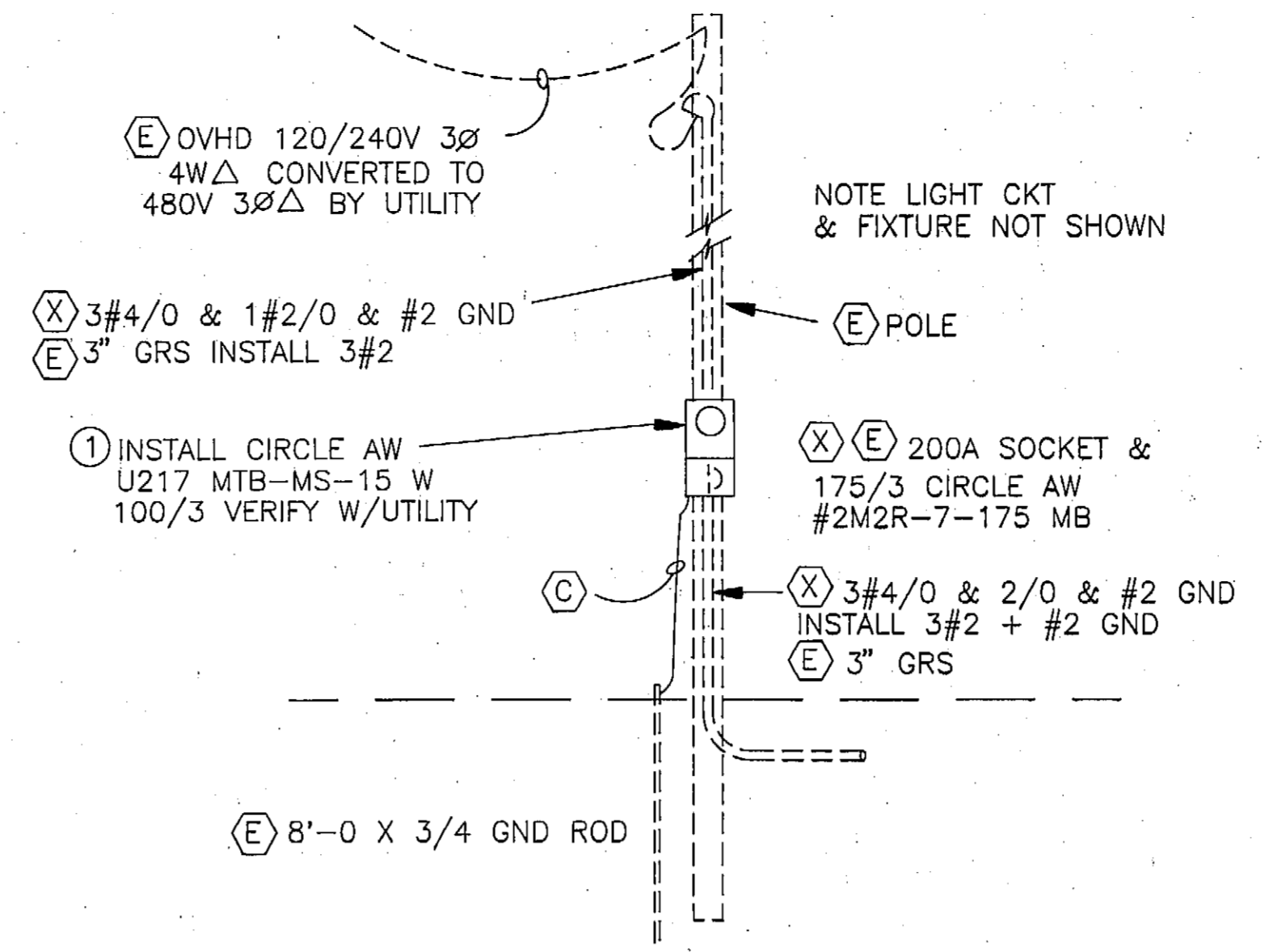
KAK-HYD



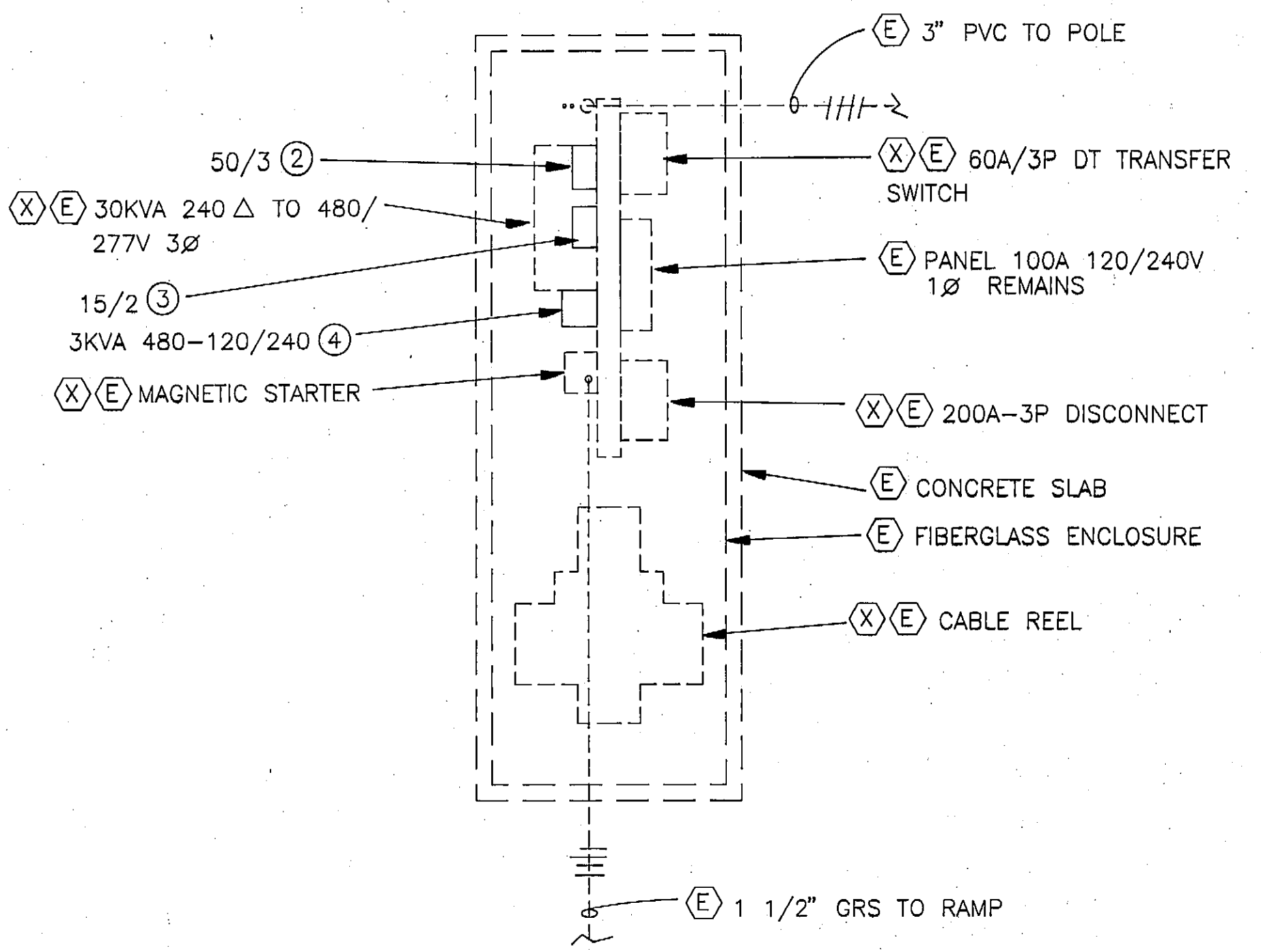
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
KAKE		ALASKA	
HYDRAULIC SCHEMATIC			
DESIGNED: STAFF	CHECKED: BAS	DRAWN: BN	DATE: FEB, 1994
PROJECT NUMBER: STP-0939(5) 75377	SHEET	16	OF 19



SITE PLAN
1" = 20'



POLE DETAIL
NO SCALE



FIBERGLASS ENCLOSURE DETAIL
NO SCALE

LEGEND

- ⊙ ELECTRIC MOTOR
- ⊕ JUNCTION
- ⓔ EXISTING
- ⓧ REMOVE
- ⓐ CONNECT
- ⓑ NOTE 2
- ⓧⓔ MAGNETIC STARTER
- ⓧ DISCONNECT
- ⓧⓔ TRANSFER SWITCH
- ⓐ EQUIPMENT NUMBER
- ⓑ HYDRAULIC SOLENOID #3
- +ⓔ RELAY CONTACT NORMALLY OPEN
- ⓔ RELAY CONTACT NORMALLY CLOSED
- NEW CONDUIT & WIRE 3/C
- - - EXISTING CONDUIT & WIRE
- EXISTING CONDUIT & NEW WIRE 3/C
- OVERHEAD WIRING BY OTHERS
- OL OVERLOAD PROTECTION
- OVHD OVERHEAD
- GRS GALVANIZED RIGID STEEL
- ⓐ RECEPTACLE

EQUIPMENT SCHEDULE		
NUMBER	ITEM	REMARKS
①	METER CIRCLE AW 217-MTB-MS-15 & 100/3	VERIFY WITH UTILITY
②	CIRCUIT BREAKER 50/3 SQD FA 100DS	NEMA 4X 480V
③	CIRCUIT BREAKER 15/2 SQD FA 100DS	NEMA 4X 480V
④	3KVA TIERNEY XCL103-BW13H115-COT	480V 1Ø TO 120/240V 1Ø
⑤	TRANSFER SW. SQ D 82342DS-DT100SG-4X	60A-3P D.T. LOCKABLE ON-OFF-ON
⑥	MAGNETIC STARTER SQ D SDO-2-F4T	SEE DETAIL E-3
⑦	DISCONNECT SQ D HU362DS 60-3P 4X	
⑧	PENDANT CONTROL	SEE DETAIL E-3

E-1

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

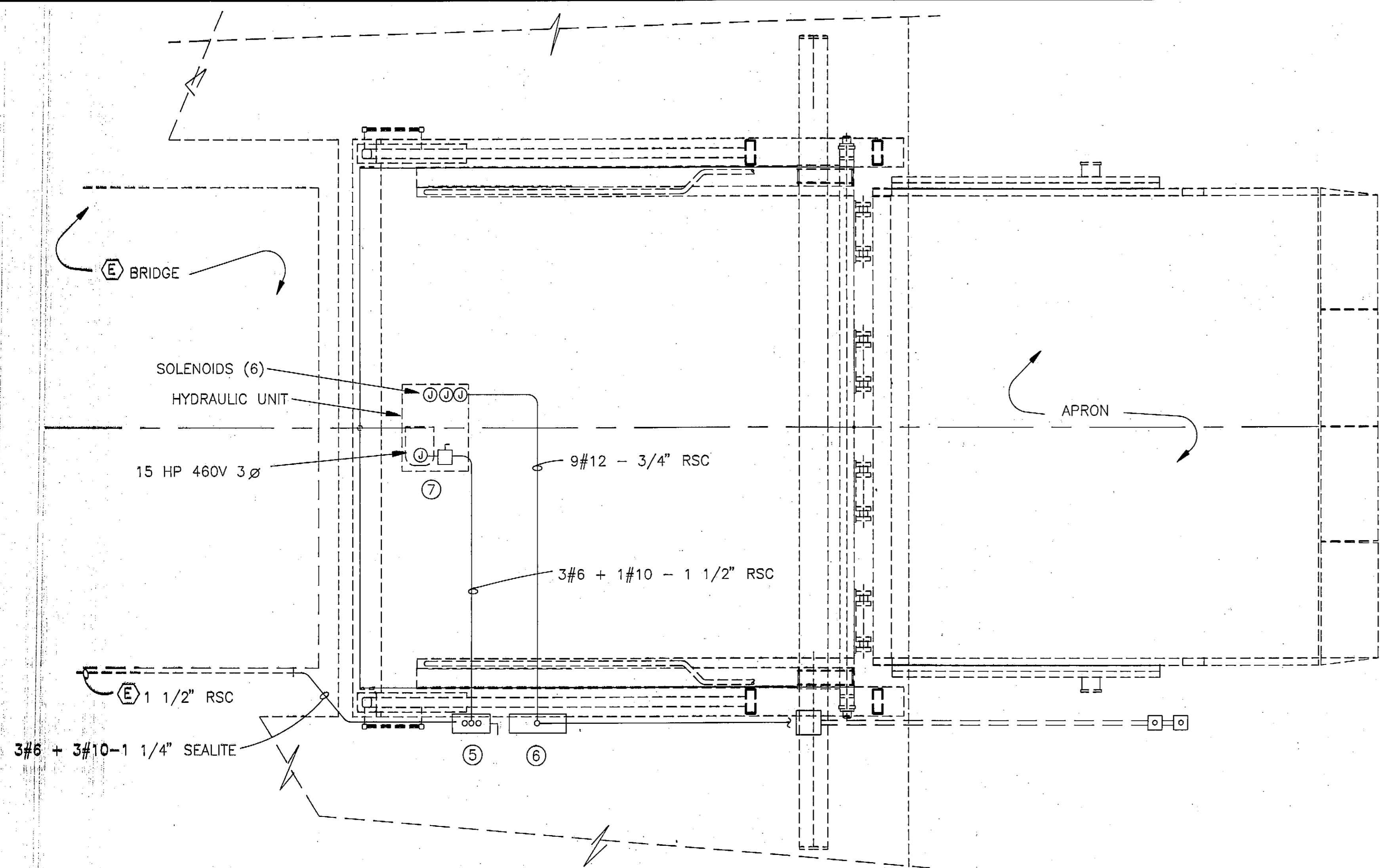
KAKE ALASKA

ELECTRICAL

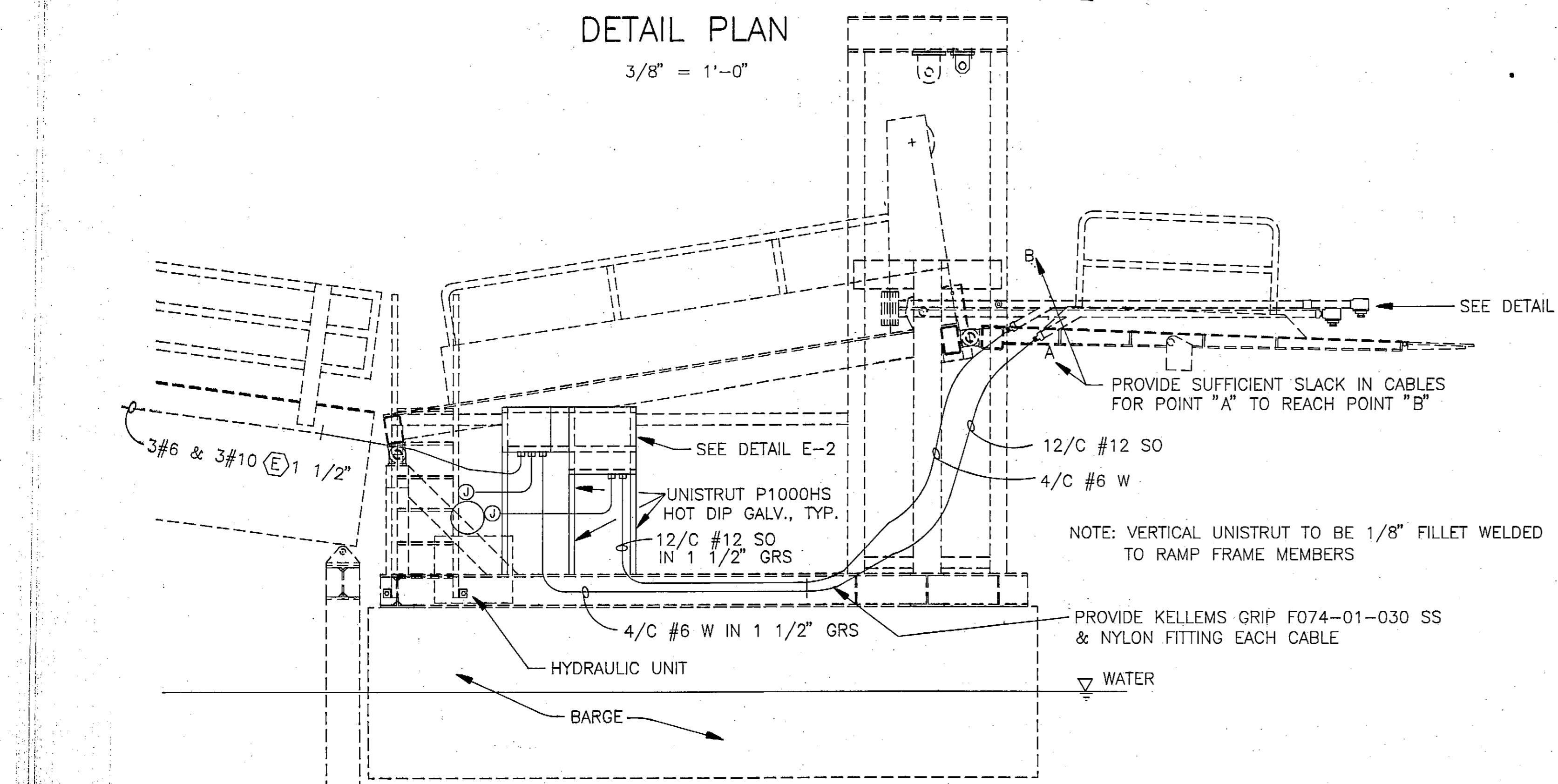
DESIGNED: LPL CHECKED: DRAWN: LPL/BAS DATE: MARCH 1994
PROJECT NUMBER: STP-0939(5)/75377 SHEET 17 OF 19

STAMP: Leonard P. Lowell, No. 553-E, PROFESSIONAL ENGINEER

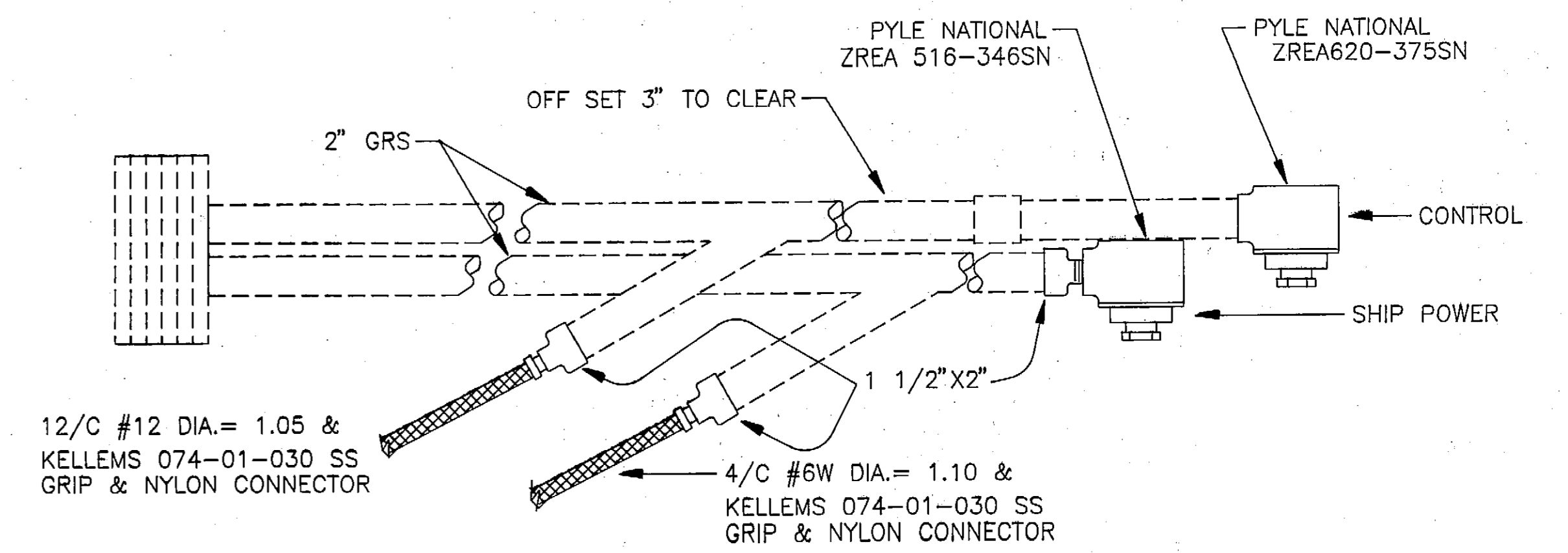
KAK-E-1.DWG



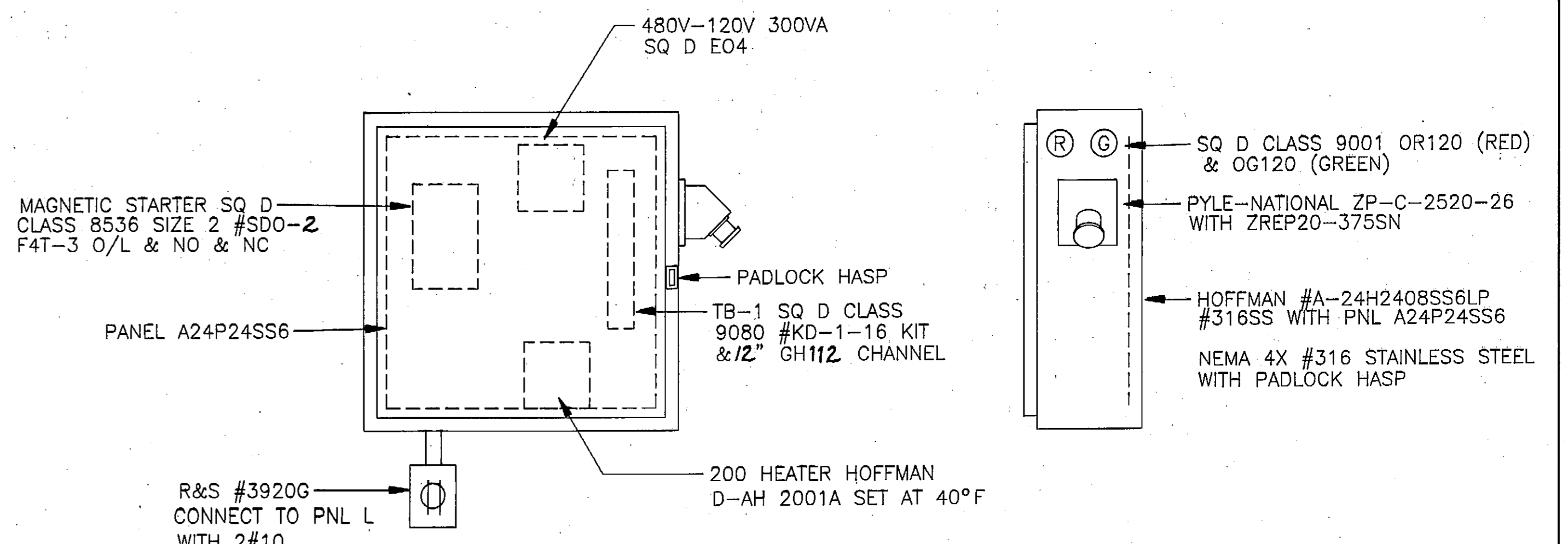
DETAIL PLAN
3/8" = 1'-0"



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



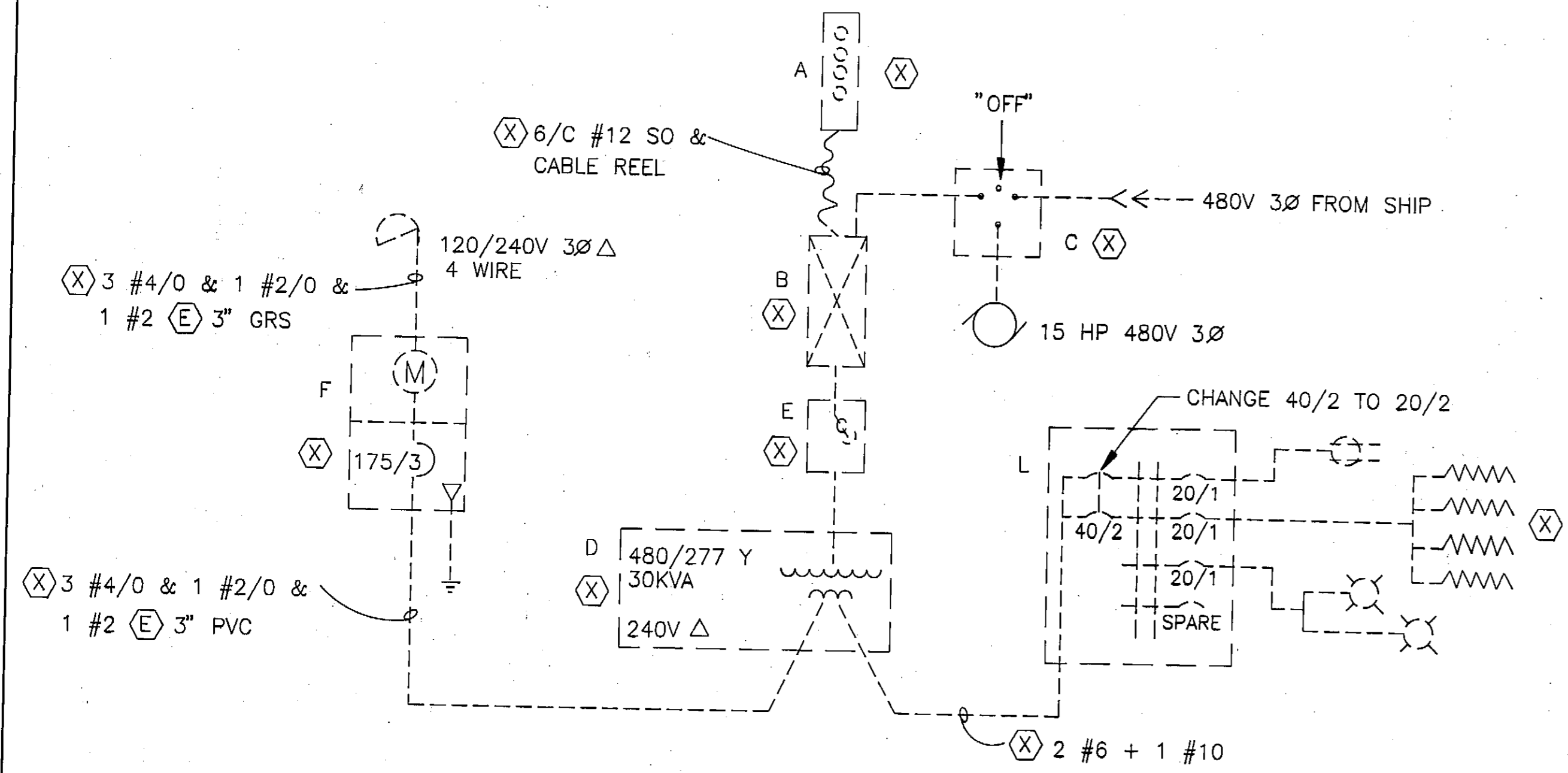
MAST DETAIL
1 1/2" = 1'-0"
(SEE SHEET 9 FOR MAST STRUCTURAL DETAILS)



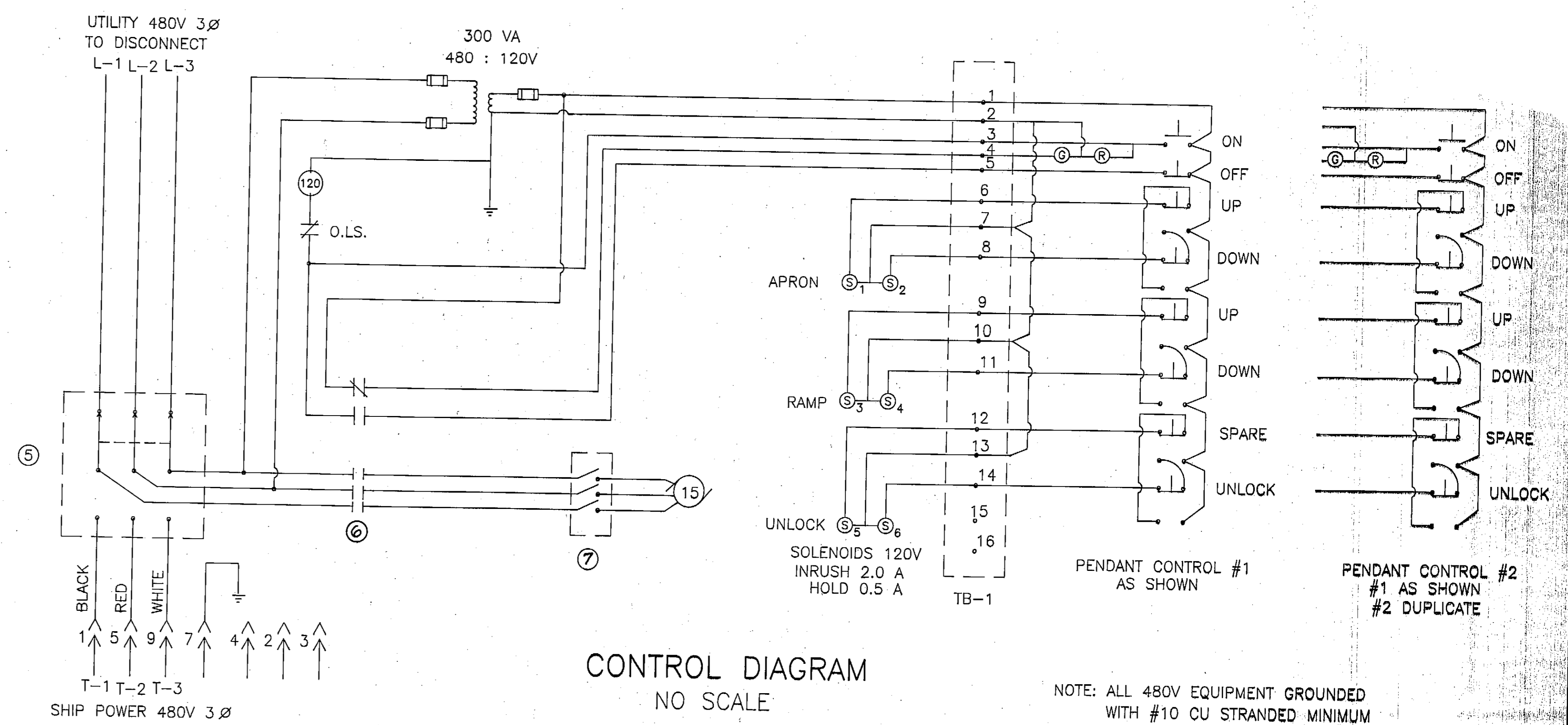
CONTROL ENCLOSURE
1 1/2" = 1'-0"

E-2

<p>STAMP</p>		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
KAKE		ALASKA	
ELECTRICAL			
DESIGNED: LPL	CHECKED:	DRAWN: LPL/BAS	DATE: MARCH 1994
PROJECT NUMBER: STP-0939(5)/75377		SHEET 18 OF 19	

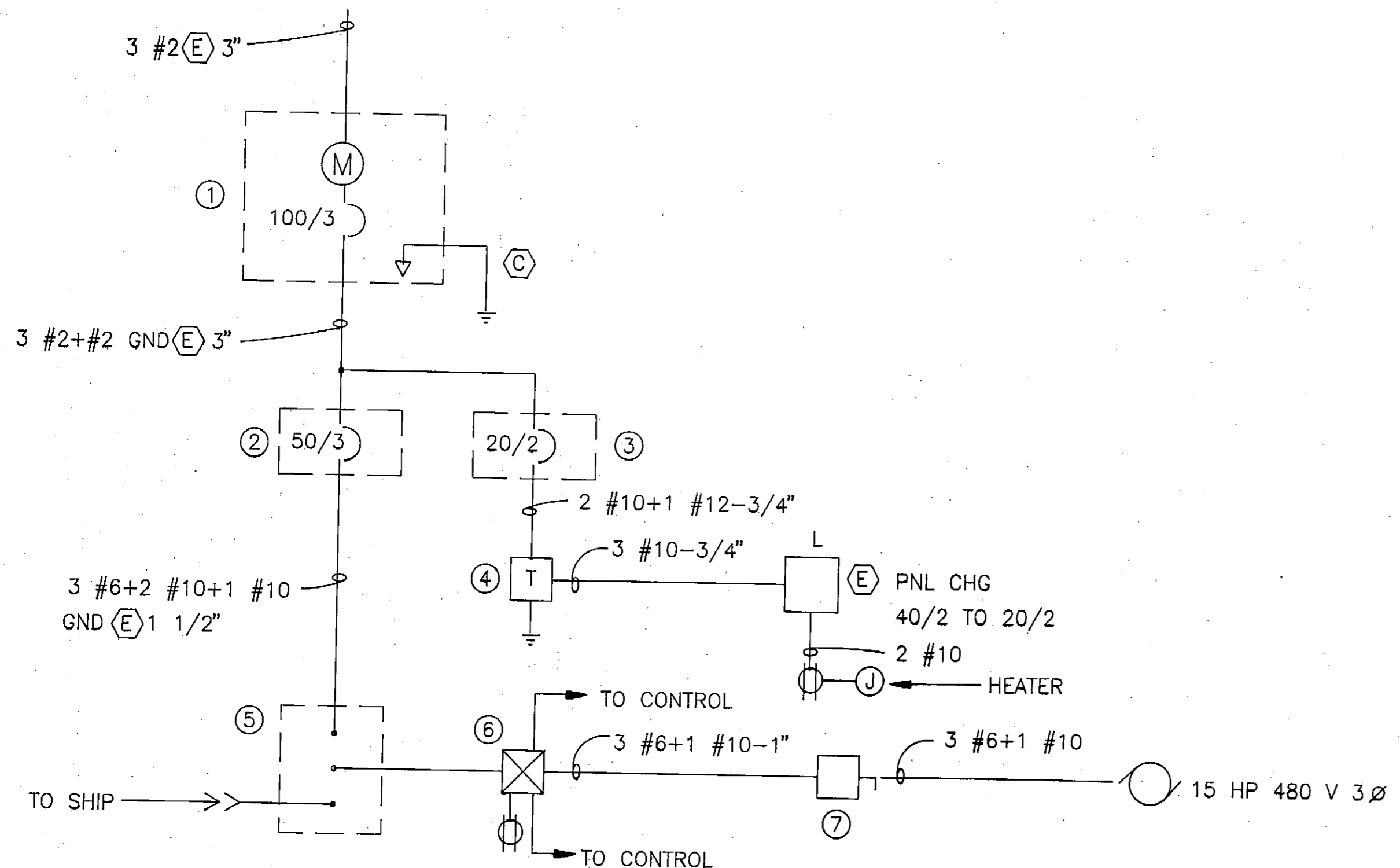


EXISTING ONE LINE DIAGRAM
NO SCALE



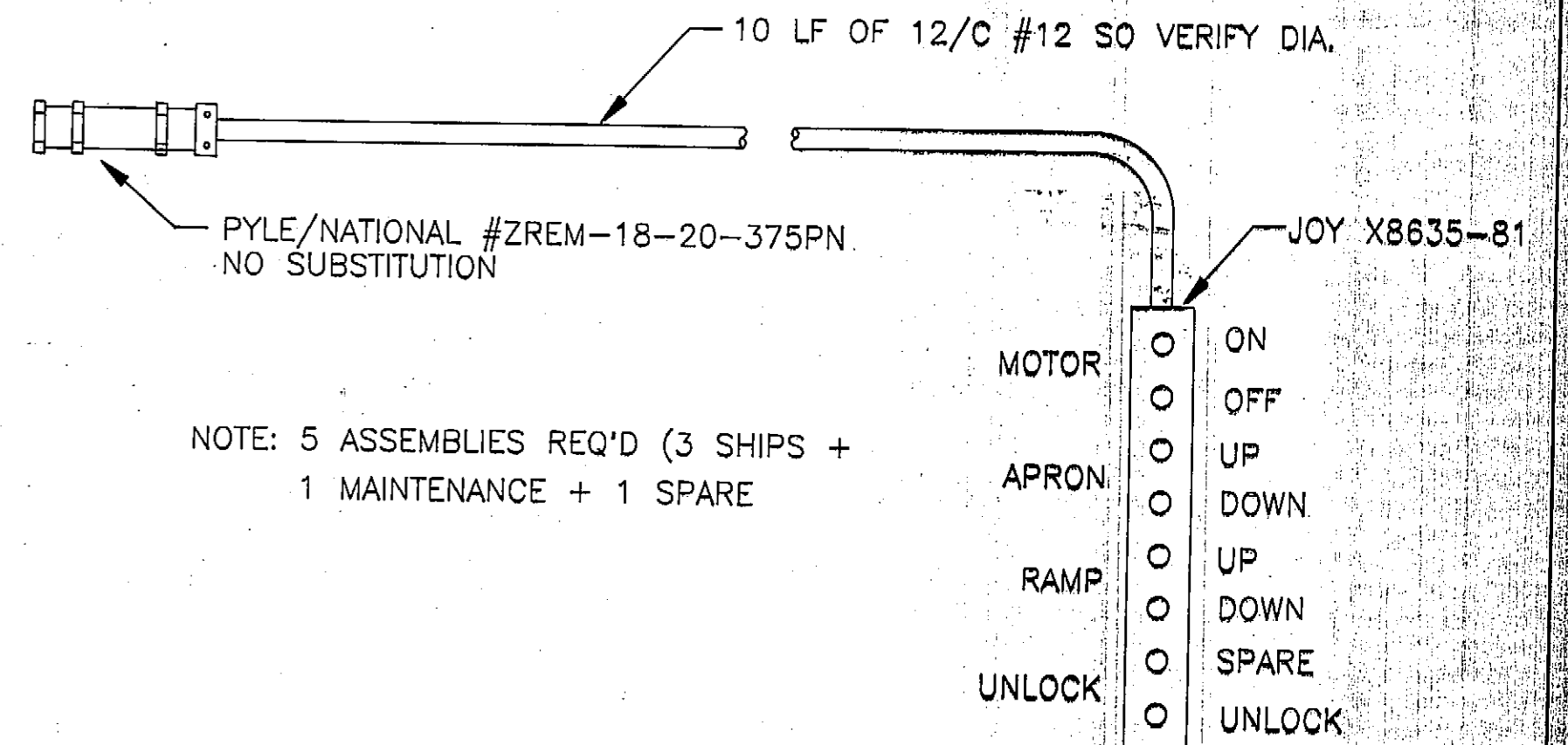
CONTROL DIAGRAM
NO SCALE

NOTE: ALL 480V EQUIPMENT GROUNDED
WITH #10 CU STRANDED MINIMUM



REVISED ONE LINE DIAGRAM
NO SCALE

TYPE	DESCRIPTION	MANUFACTURER
A	4-button control console	Joy Flexite X 8635-41B
B	Magnetic starter, size 2, NEMA 4X Auxiliary contacts	A-B 509-CSD-6PX 595 A-B: (3) FORM C, (1) NO, (3) Heaters
C	Transfer Switch: NEMA 4X encl. 60A, 3 poles.	Square D #82342DS-E1 with #H60LBA Lockable "Off"
D	Transformer: 240Δ: 480Y/277	SQ D 30T*HNB
E	Fused disconnect switch: 200A 4-wire, NEMA 4X	Square D #H364NDS
F	Meter Socket w/175A/3 pole brkr	Circle A-W: #2M2R-7
G	(4) Equipment strip heaters: 120V, 250W	Chromalox #OT-1202, 129728
H	Fiberglass enclosure	Kearney Powerglass #135-6
I	Cable reel	Aero-motive Pow-R-Matic #2340-60-306 (200')
J	Junction Box: NEMA 4X	A-B #1450-SA1
K	Street lamp, non-cutoff type II dist, Lexan cover	GE #M2AR15S1N2LMN21
L	Panelboard, 100A main lugs, NEMA 3R, 12 single poles	Square D #NQOD12L100CU, MH20WP MH20TK



NOTE: 5 ASSEMBLIES REQ'D (3 SHIPS +
1 MAINTENANCE + 1 SPARE)

⑧ PENDANT ASSEMBLY
1 1/2" = 1'-0"

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KAKE ALASKA

ELECTRICAL

DESIGNED: LPL CHECKED: DRAWN: LPL/BAS DATE: MARCH 1994

PROJECT NUMBER: STP-0939(5)/75377 SHEET 19 OF 19

KAK-E-3.DWG

