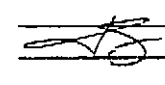


State of Alaska  
 Dept. of Transportation and Public Facilities  
 Marine Facilities Engineering

**CONTRACTOR SUBMITTAL REVIEW**

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that pertains solely to the fabrication process or to techniques of construction and for coordination of the work of all trades.

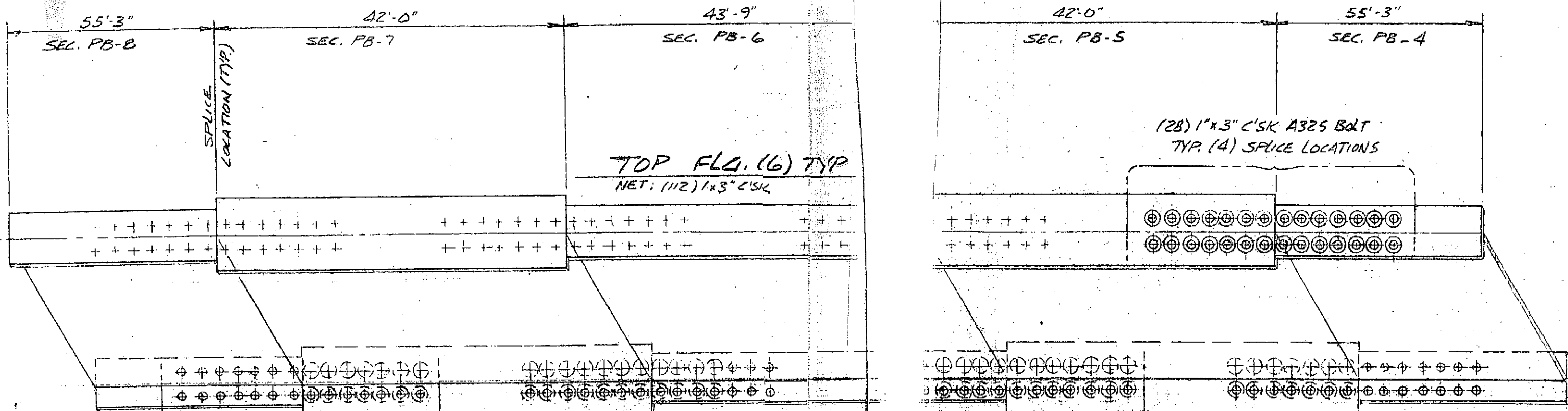
ACCEPTED  
 ACCEPTED AS NOTED   
 RETURNED FOR CORRECTION

Date 3-1-80 Project Engineer

ITEM 16 (2) REQ'D  
 ALTERNATE Assy

REF DWG PB-69

- PROJECT - PETERSBURG A3850Z	AMERICAN BOILER WORKS - METAL FABRICATORS -	- TITLE - GIRDER DETAILS - BARGE END ITEM 16, ALTERNATE
JOB NO 4444	DATE: 3-5-80 CMB	SKETCH NO SK 16-69



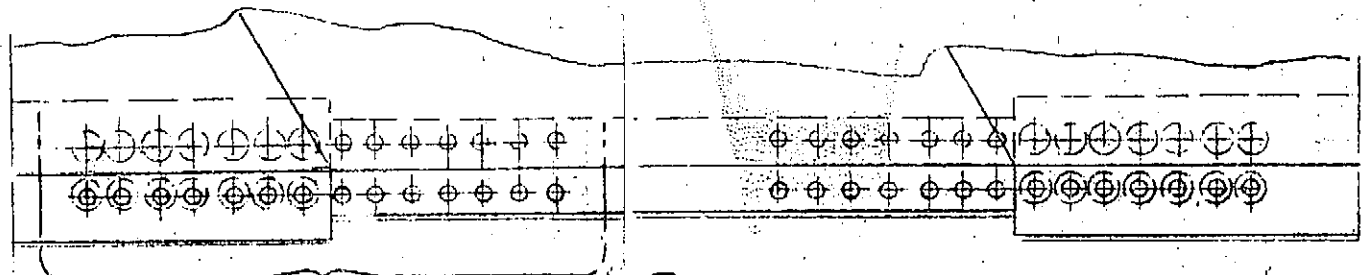
TOP FLG. (6) TYP  
NET: (112) 1x3" C'SK

BOTTOM FLG. (5) TYP.  
NET: (40) 1x3 1/4" HEX HD  
(72) 1x3" C'SK

(28) 1" x 3" C'SK A325 BOLT  
TYP. (4) SPLICE LOCATIONS

(14) 1" x 3 1/4" HEX HD A325 BOLT  
(14) 1" x 3" C'SK A325 BOLT  
TYP. BOTH END SPLICE LOCATIONS

(6) 1" x 3 1/4" HEX HD A325 BOLT  
(22) 1" x 3" C'SK A325 BOLT  
TYP. (2) INTERMEDIATE  
SPLICE LOCATIONS



EXCEPT (1) GIRDER  
LOCATED BELOW CURB  
(14) 1" x 3 1/4" HEX HD A325 BOLT  
(14) 1" x 3" C'SK A325 BOLT  
TYP. (2) SPLICE LOCATIONS ONLY

BOTTOM FLG

SPLICE/BOLT LOCATIONS

(6) STR. APPR. GIRDERS - (5) TYP

TOTAL NET: (1088) 1x3" C'SK BOLT  
(256) 1x3 1/4" HEX HD BOLT

Saw Cuts in (Red)  
 Remove & dispose in (green)  
 Regrade for drainage  
 & topsoil (supplied by city)  
 (Blue)  
 New Concrete Sidewalk  
 (Orange)  
 New Asphalt (Brown)

152' Approach Left

Approach Cover, See Sht. 6

See Detail 19"

New Generator Building

Provide 2 Fiberglass above grade Electrical Junction Boxes

Remove old tank filler & breather & plug @ tank

Plug old sewer line for future use

Exist. P.P.

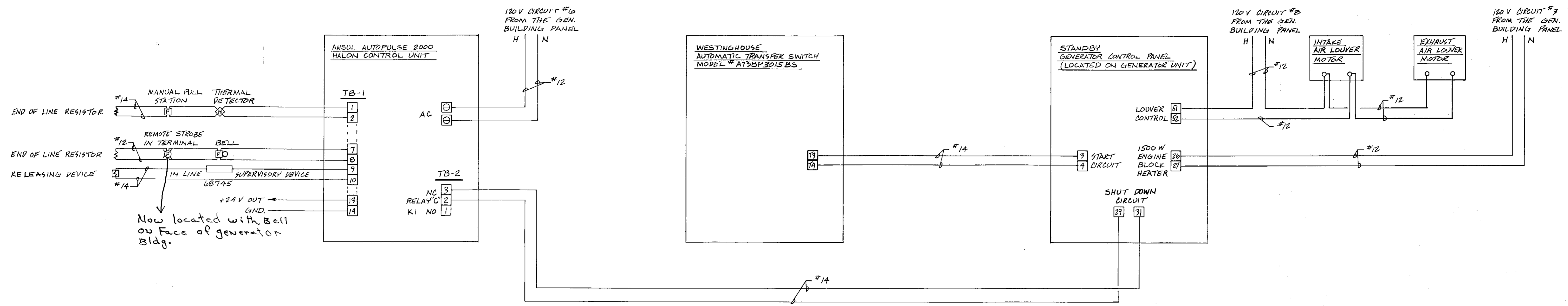
and Uplands Portion  
 Sta. 10+89.85,  
 50' Rt. (@ E Cover)

Terminal Bldg  
 Eave Line

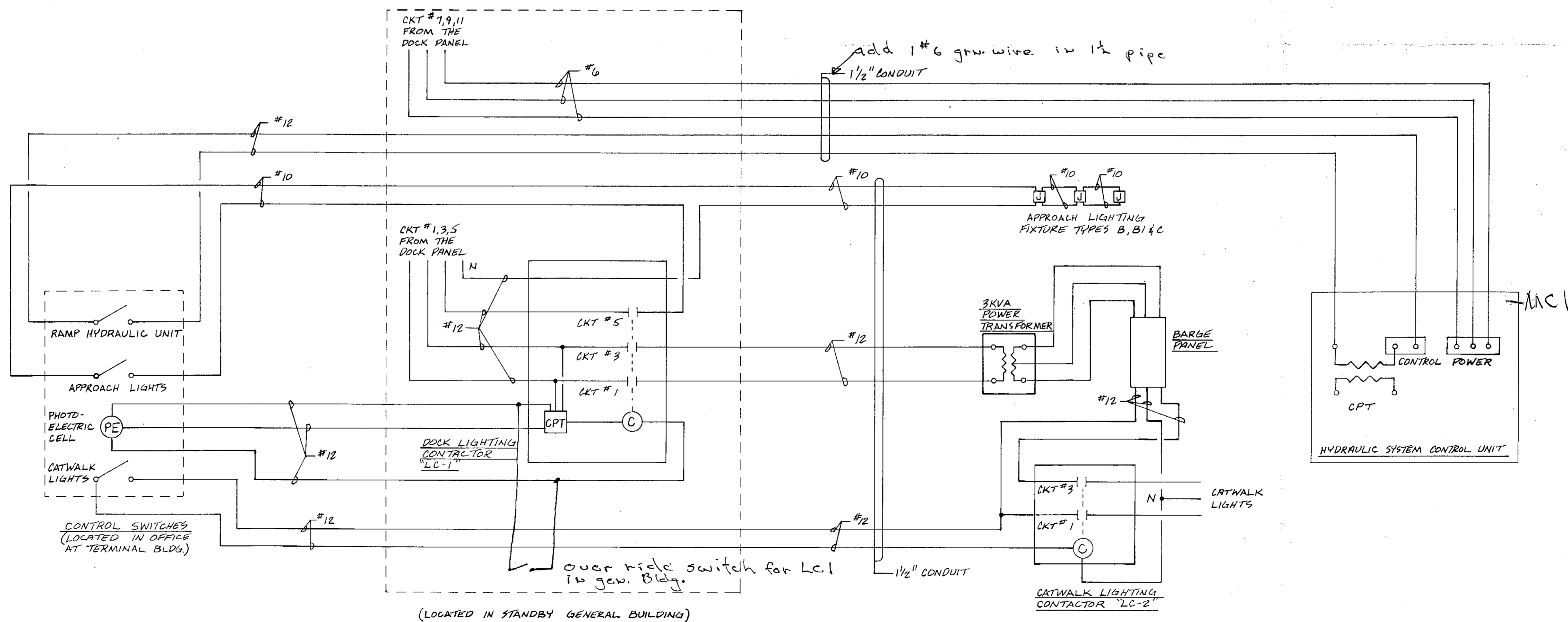
Propose  
 Rev

LAYOUT

N.T.S.



**STANDBY GENERATOR CONTROL WIRING**



**POWER & LIGHTING CONTROL WIRING**

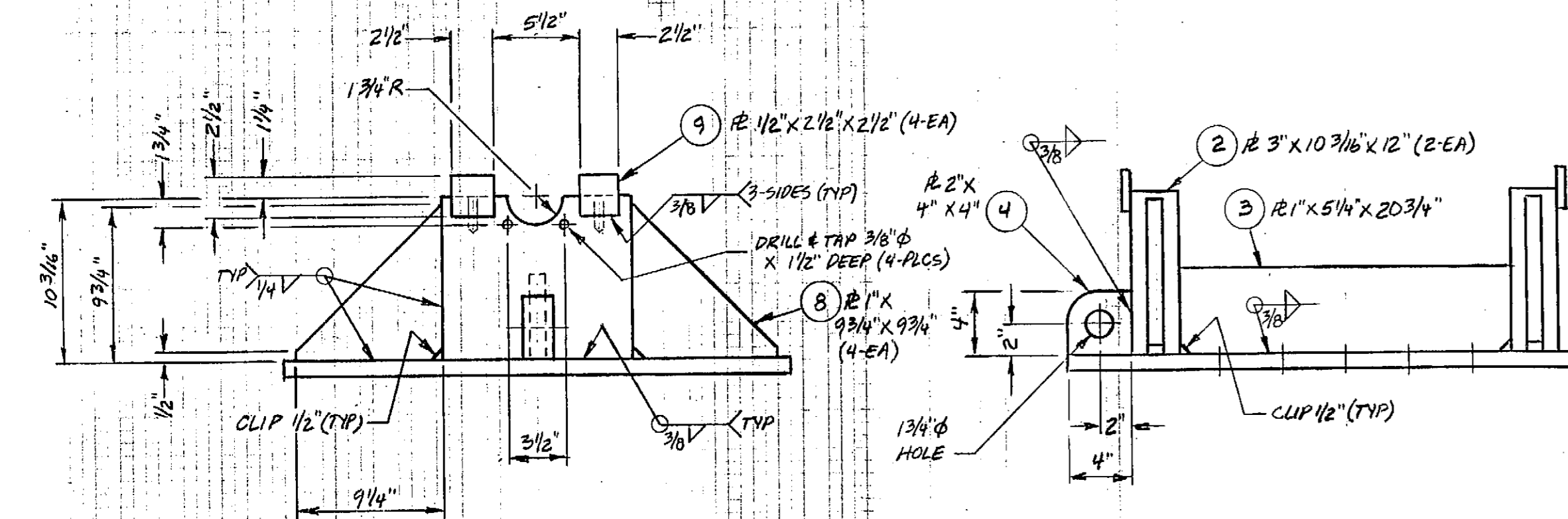
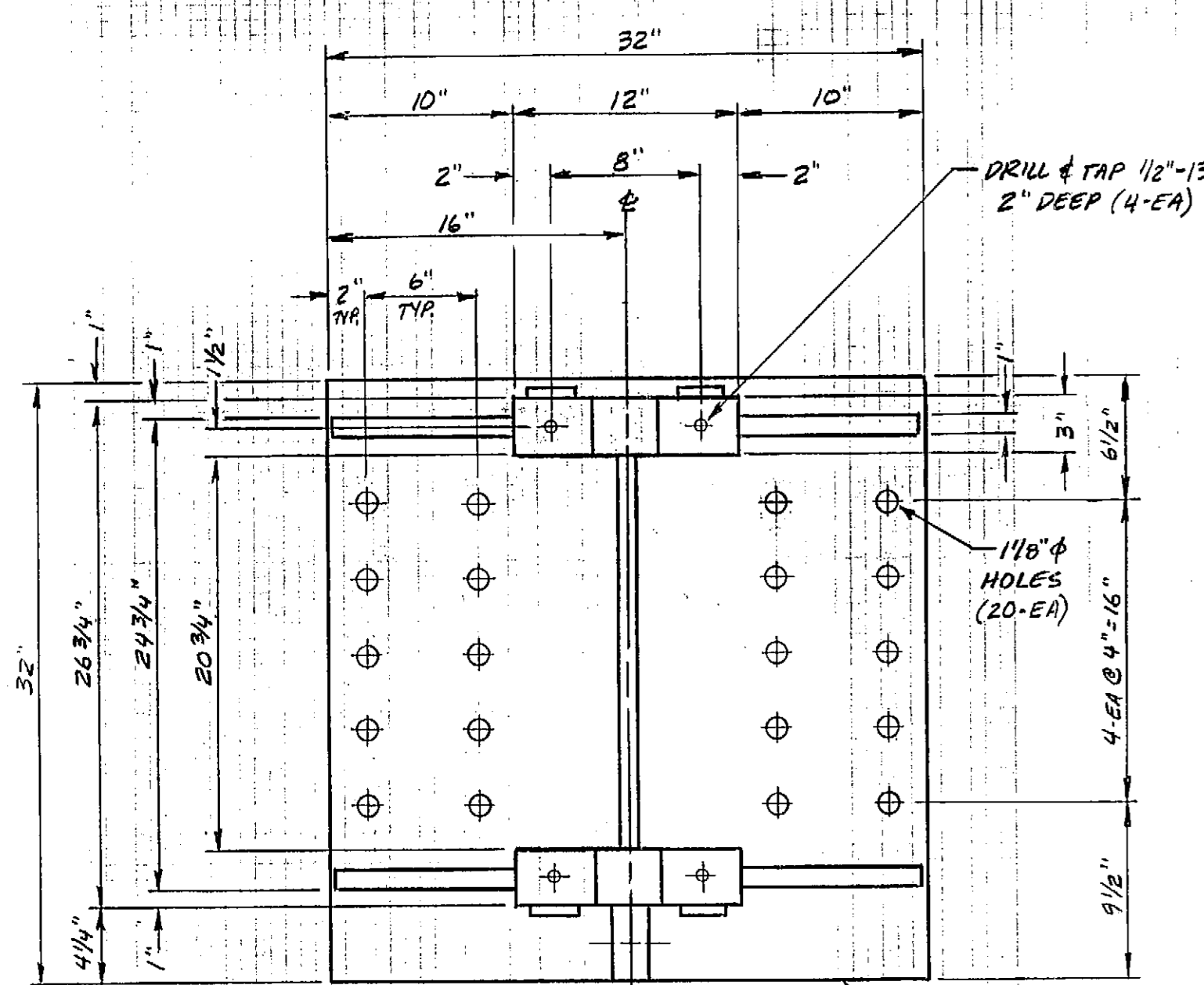
COCHRAN ENGINEERING  
 12500 Aurora Ave. N., Box 35524, Seattle, WA 98133 Phone: (206) 367-1900

**COCHRAN ELECTRICAL ENGINEERS**

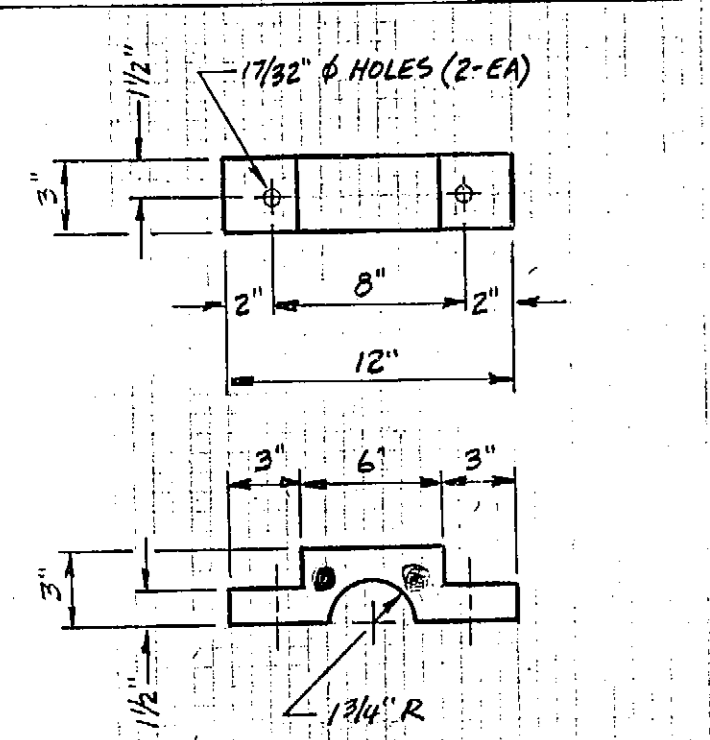
PROJECT NO. F-095-4 (15) --A38502

CONTROL CIRCUIT DIAGRAMS FOR PETERSBURG FERRY TERMINAL MODIFICATIONS

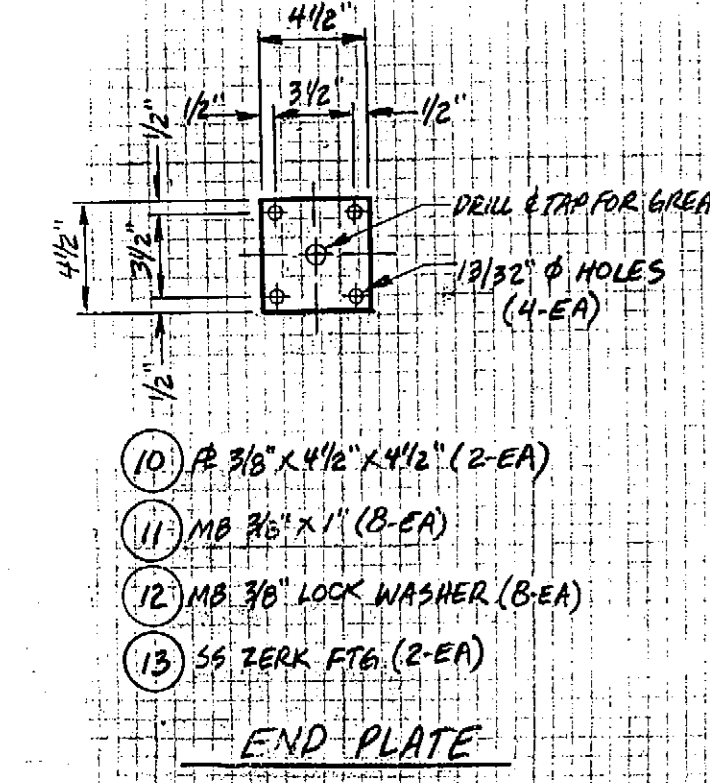
SCALE: NONE  
 DATE: 1-28-86  
 BY: ELN  
 CHECK: ED  
 APPROVED:



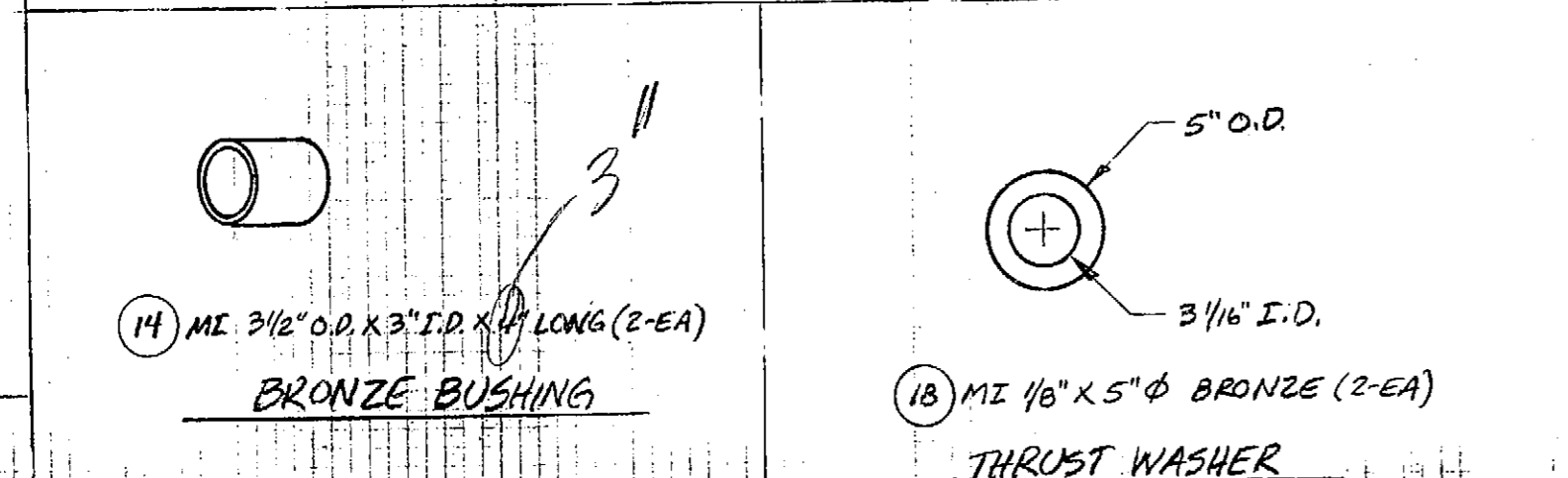
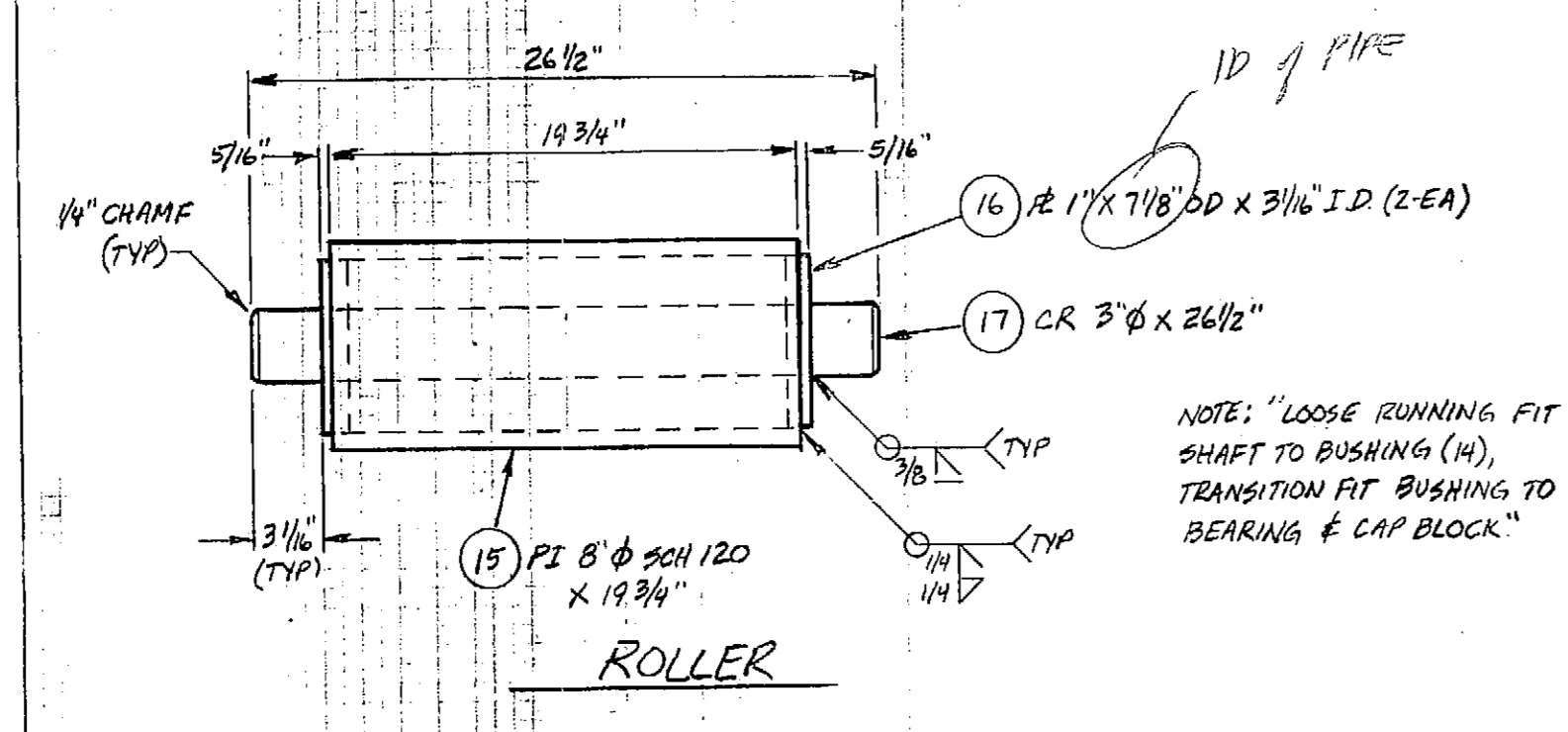
BEARING ROLLER BASE



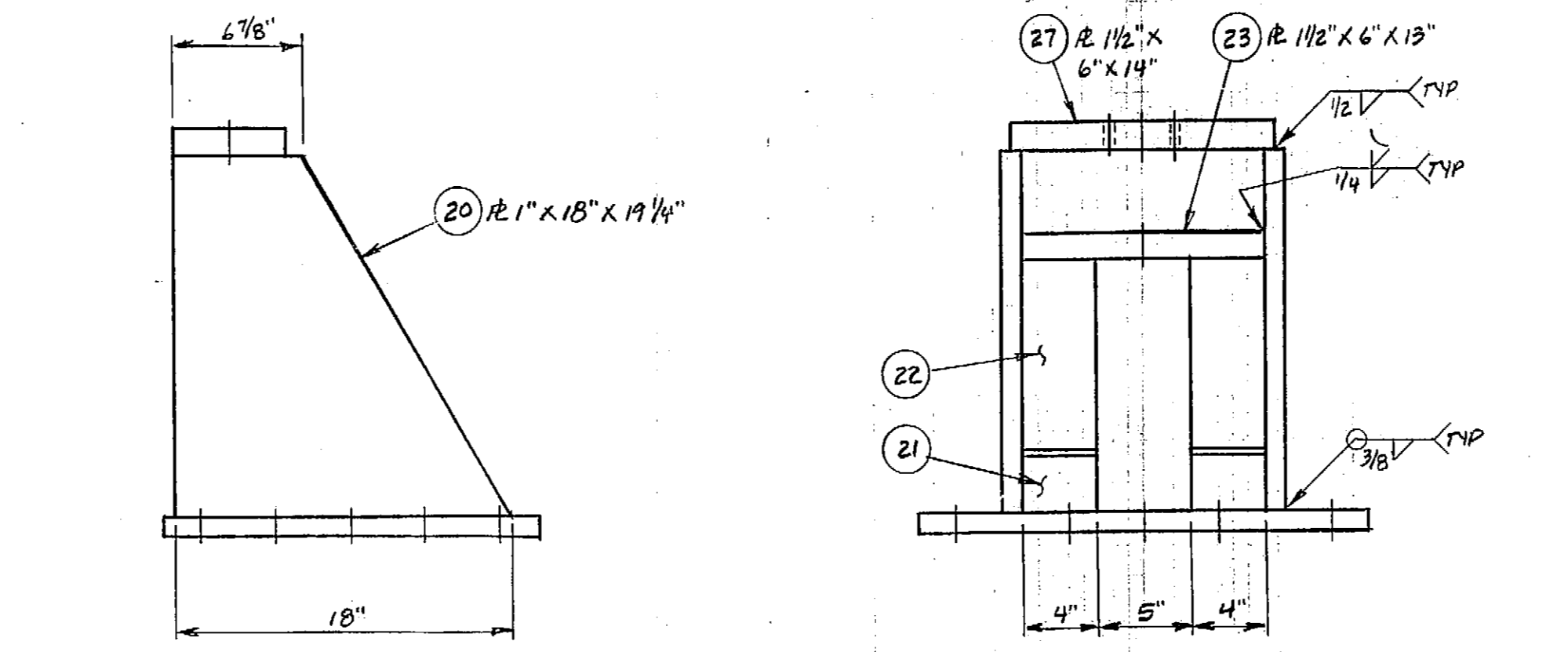
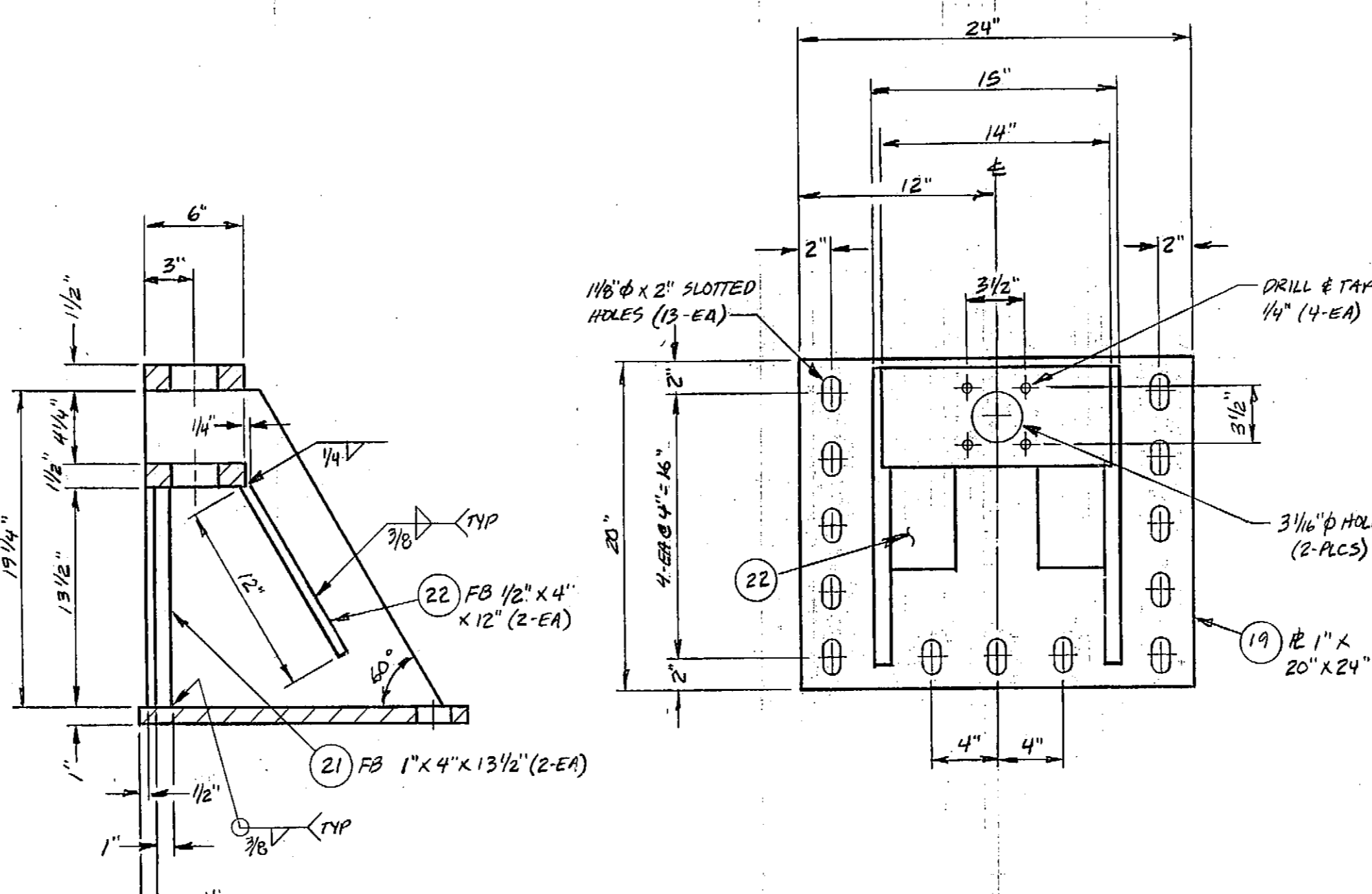
BEARING BLOCK



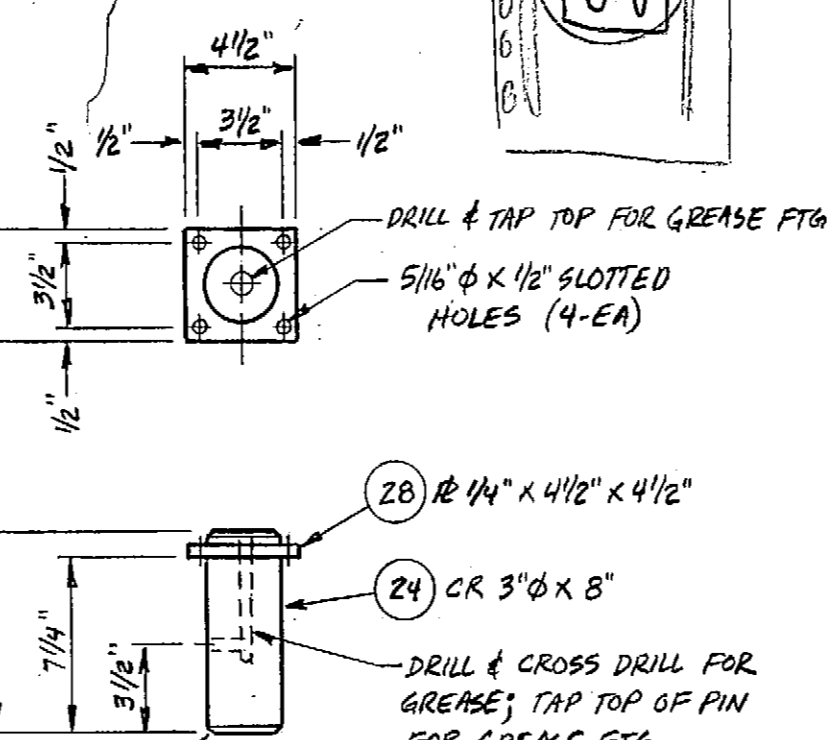
END PLATE



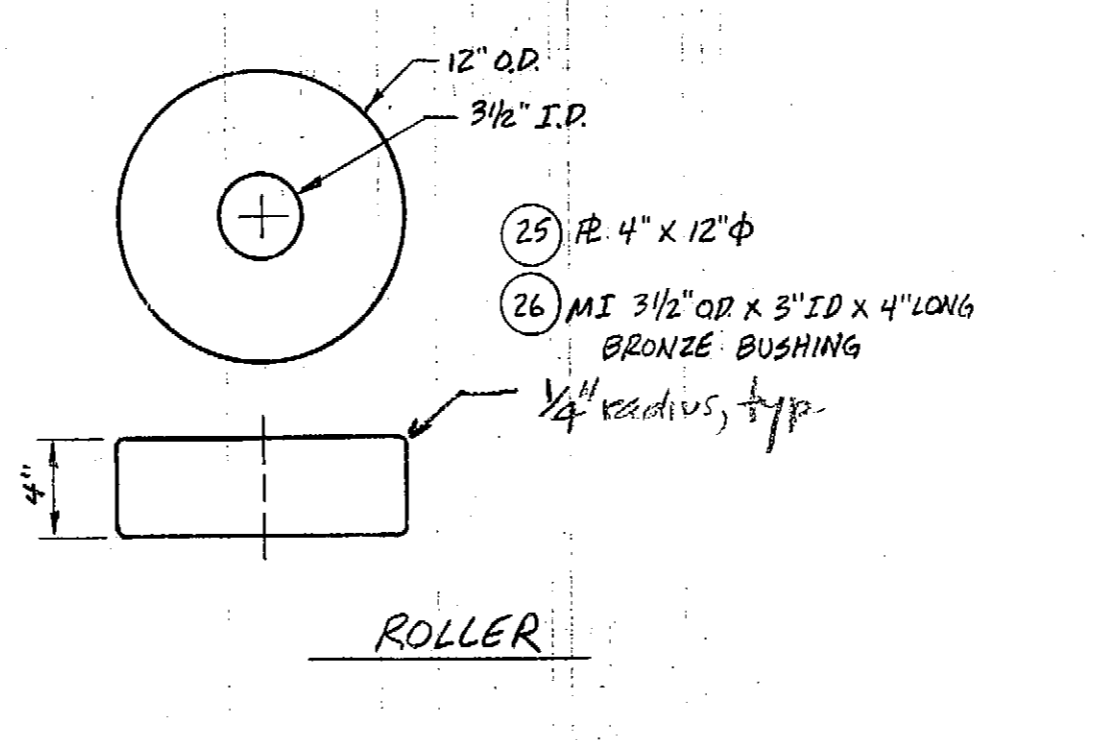
BEARING ROLLER MK 1  
2-EA REQ'D



SIDE ROLLER BASE

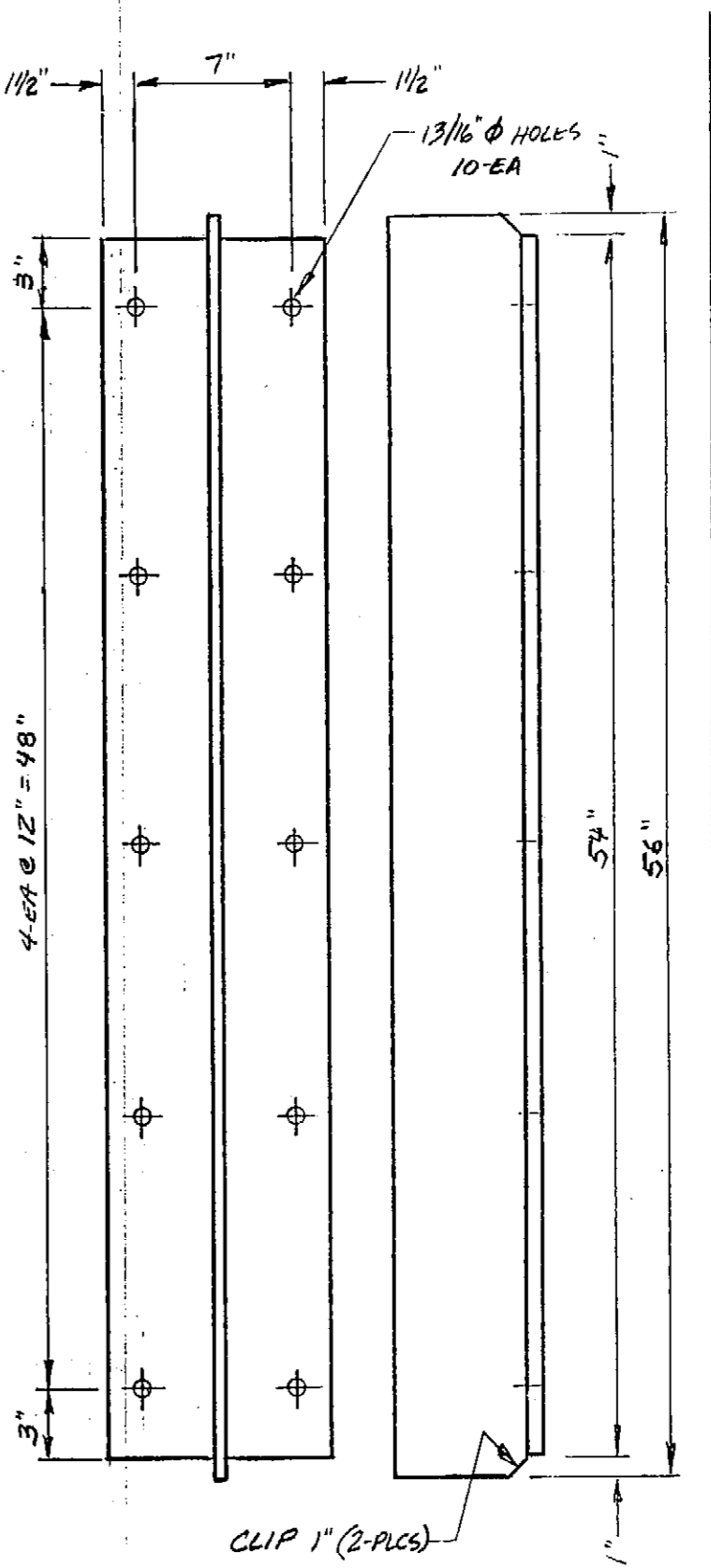


AXLE

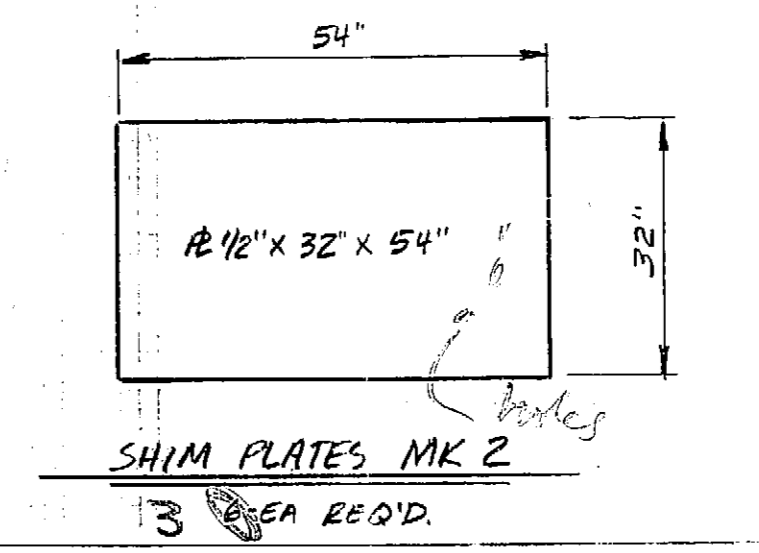


ROLLER

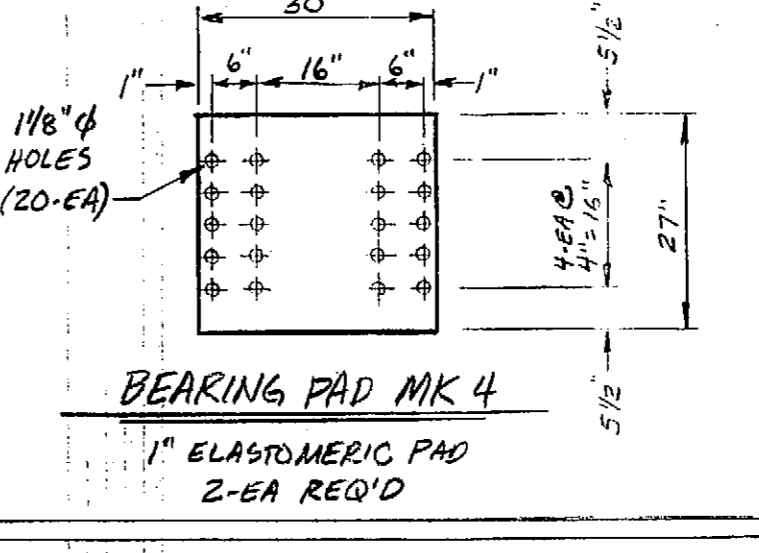
SIDE ROLLER MK 6  
2-EA REQ'D



STIFFENER MK 7  
WT 6 X 26.5  
4-EA REQ'D



SHIM PLATES MK 2  
3-EA REQ'D



BEARING PAD MK 4  
1\"/>

MARK NO.	QTY.	MATL.	DESCRIPTION	LENGTH	NOTES
MK 1	2	STL	BEARING ROLLER		
1	2	A36	PL 1" X 32"	2'-8"	BASE
2	4	A36	PL 3" X 10 3/4"	1'-0"	BEARING BLOCK
3	2	A36	PL 1" X 5 1/4"	1'-8 3/4"	STIFFENER
4	2	A36	PL 2" X 4"	4"	PAP EYE
5	4	A36	50 3" X 3"	1'-0"	BEARING BLOCK
6	8	A325	MB 1/2"-13 X 3" LONG GALV		
7	8		MB 1/2" LOCK WASHER GALV		
8	4	A36	PL 1" X 9 3/4"	9 3/4"	GUSSET 4 MAKES B
9	4	A36	PL 1/2" X 2 1/2"	2 1/2"	SHEAR PLATE
10	4	A36	PL 3/8" X 4 1/2"	4 1/2"	END PLATE
11	16		MB 3/8" X 1" LONG GALV		
12	16		MB 3/8" LOCK WASHER GALV		
13	4	SS	MI ZERK FTG.		
14	4	BRZ	MI 3/16" OD X 3" ID BUSHING	(4) 5 1/2"	
15	2	A53-B	PI 8" SCH 120	1'-7 3/4"	ROLLER
16	4	A36	PL 1" X 7 1/8" φ		ROLLER END PL
17	2	A36	CR 3" φ	2'-2 1/2"	ROLLER SHAFT
18	4	BRZ	MI 1/8" X 5" φ		THRUST WASHER
MK 2	2	A36	PL 1/2" X 32"	4'-6"	SHIM PLATE
MK 3	66		MI 1" φ X 9" LONG GALV LAG BOLT		
3a	66	A36	PL 1/4" X 3 1/4" φ PLATE WASHER		
MK 4	2		MI 1" X 27" ELASTOMERIC PAD	2'-6"	WEAR PLATE
MK 5	2	A36	PL 1" X 23"	4'-0"	WEAR PLATE
MK 6	2	STL	SIDE ROLLER		
13	2	SS	MI ZERK FTG.		
18	2	BRZ	MI 1/8" X 5" φ		THRUST WASHER
19	2	A36	PL 1" X 20"	2'-0"	BASE
20	4	A36	PL 1" X 18"	1'-7 1/4"	SIDE PLATE
21	4	A36	FB 1" X 4"	1'-1 1/2"	FRONT PLATE
22	4	A36	FB 1/2" X 4"	1'-0"	STIFFENER
23	2	A36	PL 1/2" X 6"	1'-1"	BOTTOM PLATE
24	2	A36	CR 3" φ	0'-8"	AXLE
25	2	A36	PL 4" X 12" φ		ROLLER
26	2	BRZ	MI 3/16" OD X 3" ID BUSHING	4"	
27	2	A36	PL 1/2" X 6"	1'-2"	TOP PLATE
28	2	A36	PL 1/4" X 4 1/2"	4 1/2"	KEEPER
29	8		MB 1/4" X 1" LONG		
30	8		MB 1/4" LOCK WASHER		
MK 7	4	A36	WT 6 X 26.5	4'-6"	STIFFENER
MK 8	20	A325	MB 3/4"-10 X 3" LONG		
MK 9	40	A36	MB 3/4" FLAT WASHER GALV.		
MK 10	20	A194	MB 3/4"-10 HEX NUT		

AS NOTED  
BBJ 7-5-00

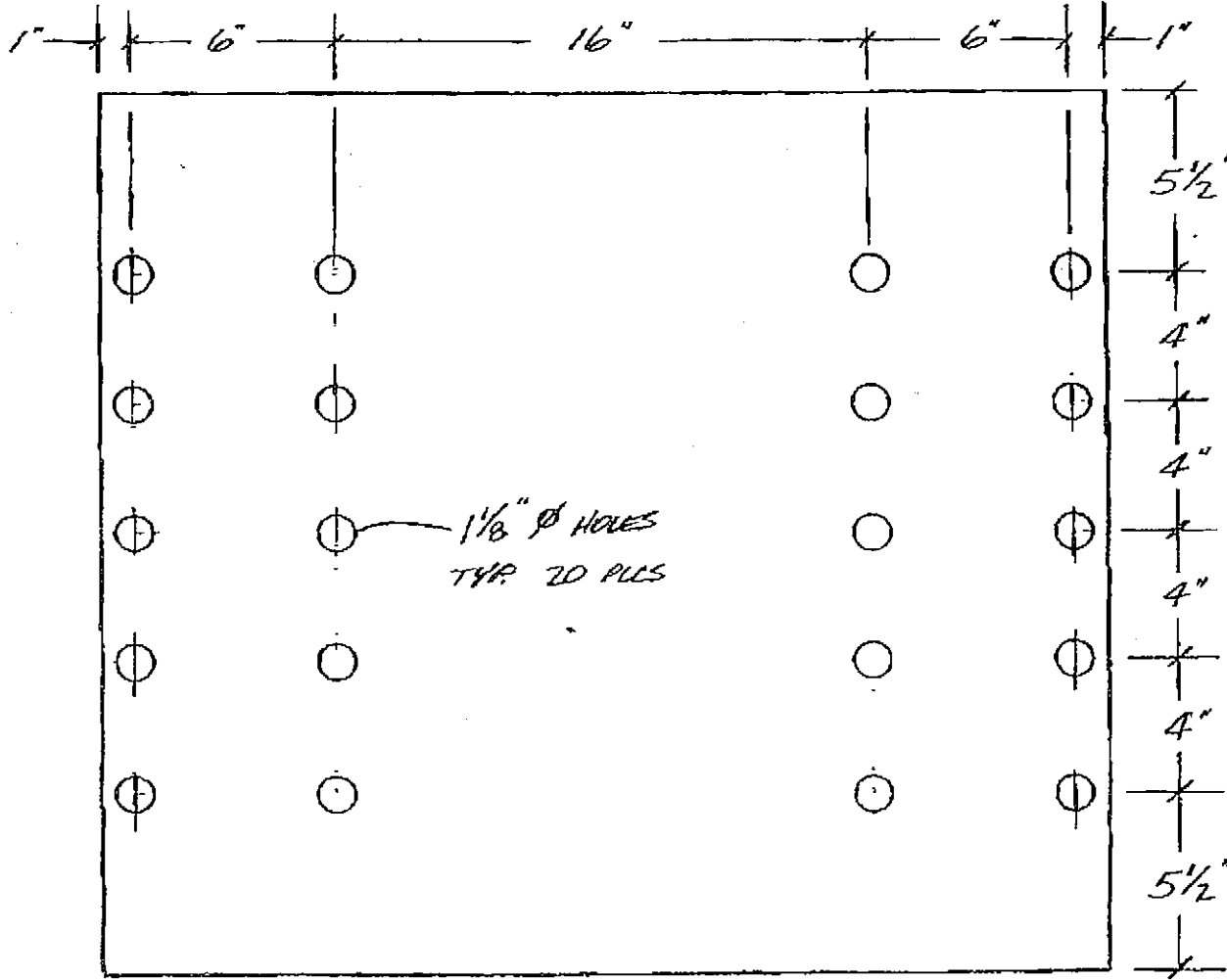
GALVANIZE TO ASTM A-123

PEPPERSON BROS., INC. BELLINGHAM, WA		
SCALE: 1/8" = 1"	SOUTH COAST, INC.	DRAWN: FH
DATE: 8-17-00		CHECK:
BARTLETT CONE BEARING MODIFICATION		
37478 D2401		SHEET 1 OF 1

SEP-05-2000 TUE 08:47 AM AK DOTPF PRECONSTRUCTION  
SEP. 1. 2000 5:42PM PEDERSON BROS. INC.

FAX NO. 8074654414  
NO. 3485 P. 1

P. 02



TO:  
BERN

ok  
9-5-00

2EA

1" ELASTOMERIC BEARING PAD  
TO DUREMETER

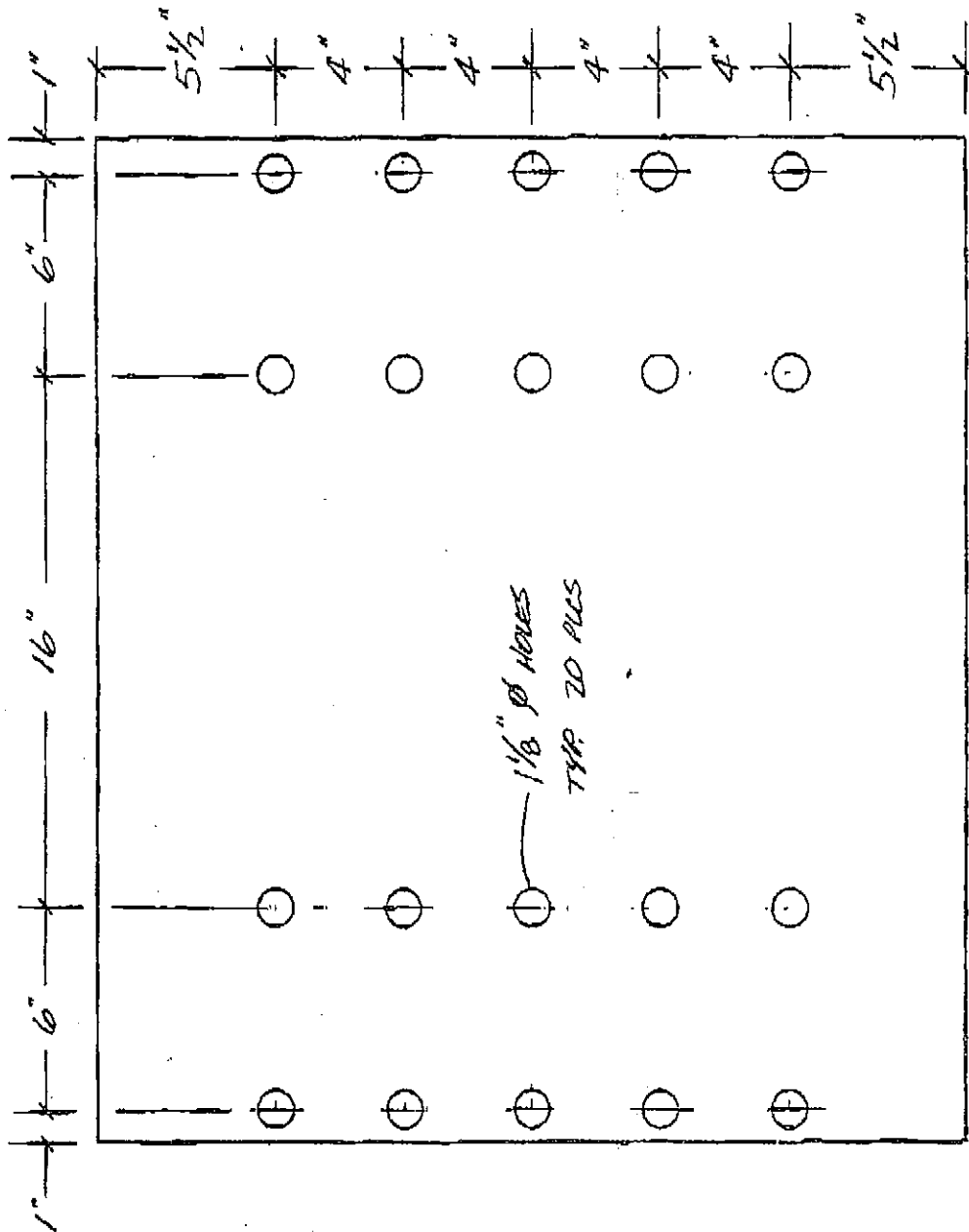
PEDERSON BROS. INC  
BELLINGHAM, WA  
JOB # 3747B  
AUG 29 2000

986-2186

986-2186

TO: **BEHN**

*Handwritten signatures and initials*

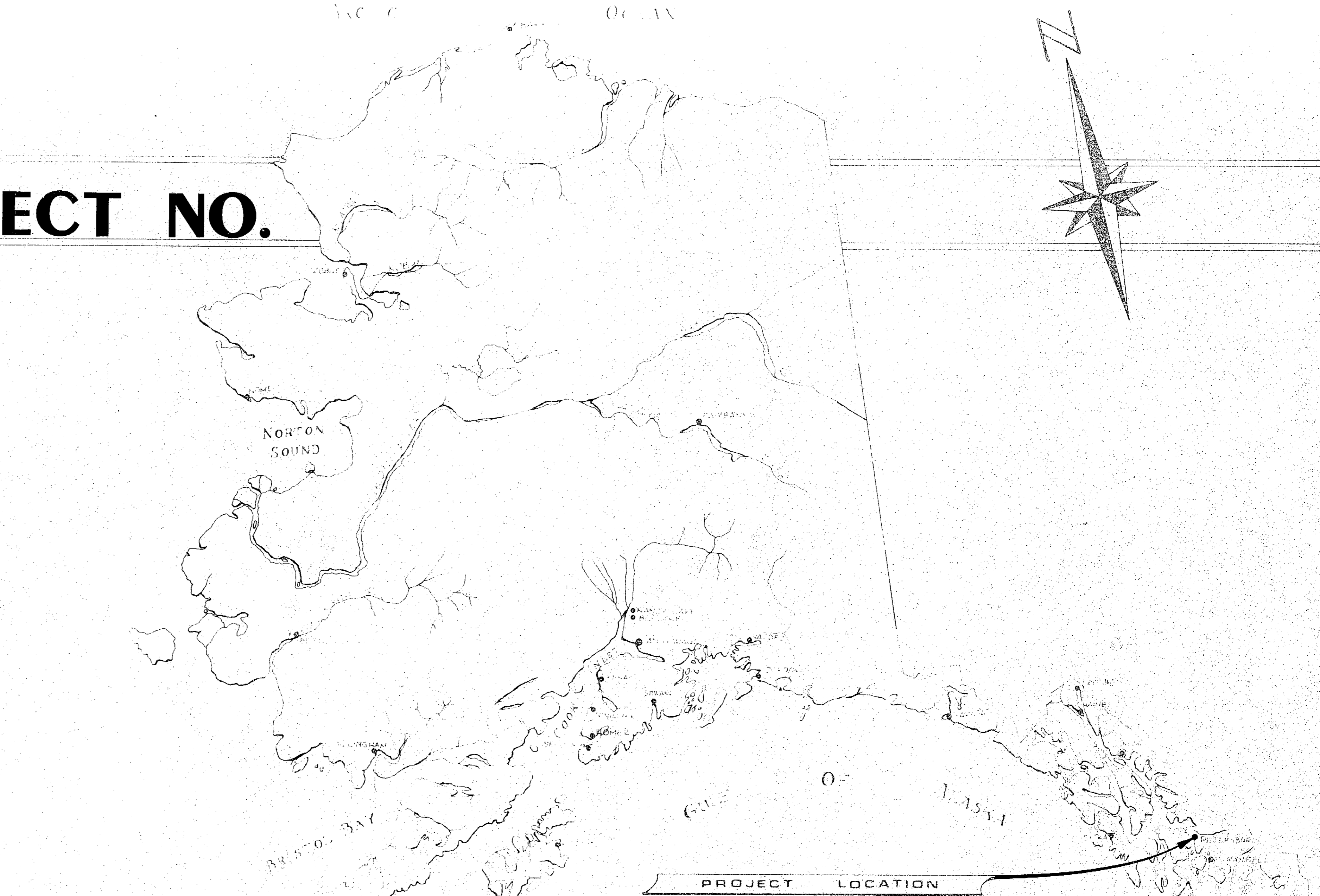
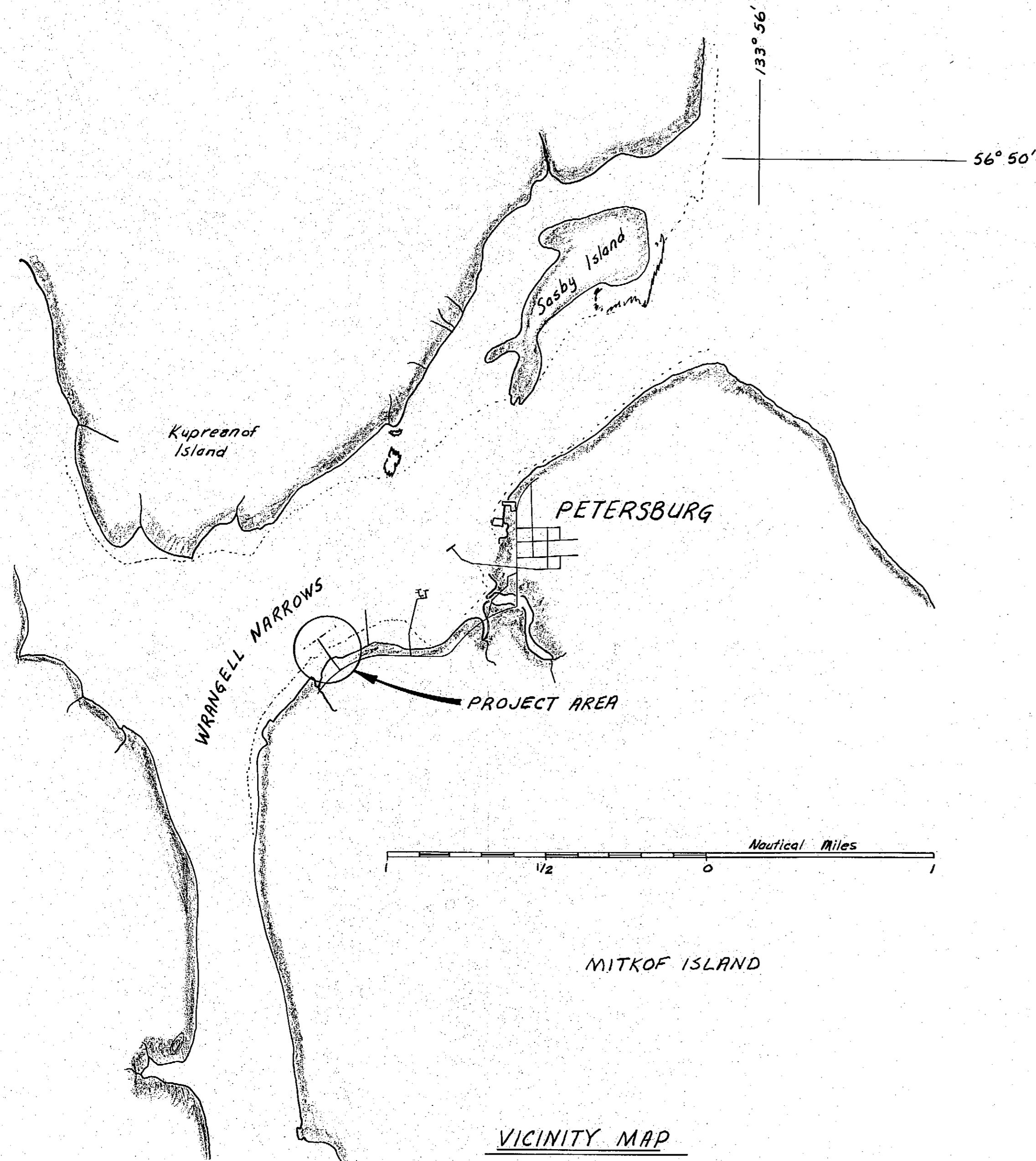


ZEA

**PEDERSON BROS. INC**  
**BELLINGHAM, WA**  
**JOB # 37478**  
**AUG 29 2000**

**7" ELASTOMERIC BEARING PAD**  
**TO DUREOMETER**

# PETERSBURG FERRY TERMINAL PROJECT NO. F-095-4(15) & A 38502



**AS-BUILT**

SHEET INDEX	
1. Title Sheet	41. Apron Mechanical
2. Quantities & General Notes	42. Apron
3. General Layout	43. Continuous Approach
4. Seaward Layout	44. Curved Approach
5/12. Dolphins & Details	52. Uplands Layout & Grading
13/14. Catwalks & Gangways	53. Uplands Typical Sections & Rails
15. Lateral Restraint Dolphins	54. Relocated Seaplane Float
16/17. Barge & Details	55. Standby Generator Building
28. Transfer Bridge Layout	56. Electrical Plans
29. Tr. Br. Abutment	46. Approach Cover
30. Tr. Br. Abutment Bearings	42. Log of Test Holes
31. Tr. Br. Framing Plan	
32. Girder Details Abutment End	
33/34. Girder Details Barge End	
35. Mechanical Details Barge End	
36. Housing Details	
37. Hinge Details	
38. Intermediate Ramp	
39. Lifting Beam	
40. Apron Tower	

STATE  
OF  
ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

## MARINE FACILITIES

*Save for As-Built*

**APPROVED**

*[Signature]*  
DIRECTOR

2/23/65 DATE

RECOMMEND  
FOR APPROVAL

*[Signature]*  
DATE

2/23/65 DATE

SHEET 1 OF 62

ESTIMATE OF QUANTITIES

Item No.	Item	Pay Unit	Est. Quan.	Unit	Total
110	Mobilization	L.S.	All Req'd	L.S.	All Req'd
111	Temp. Erosion & Pollution Control	C.S.	"	C.S.	"
115	Traffic Maintenance	L.S.	"	L.S.	"
116	Furnish & Maintain Field Office	L.S.	"	L.S.	"
201(1)	Removal of Structures & Obstruction	L.S.	All Req'd	L.S.	All Req'd
201(2)	Remove & Relocate Seaplane Float	L.S.	"	L.S.	"
203(1)	Borrow Type "B"	L.S.	640	C.Y.	640
203(2)	Subbase	L.S.	82	C.Y.	82
203(3)	Crushed Aggregate Base Course	L.S.	90	C.Y.	90
205(1)	Riprap Class I	L.S.	125	C.Y.	125
205(2)	Riprap Class III	L.S.	160	C.Y.	160
207(1)	Hot Asphalt Pavement, Class I	L.S.	418	S.Y.	418
207(2)	AC-5 Asphalt Cement	L.S.	3	Tons	3
301(1)	16" $\phi$ x 1/2" Wall Structural Steel Piles, Furnished	L.F.	2231	L.F.	2231
301(2)	18" $\phi$ x 1/2" Wall " " " "	L.F.	1616	L.F.	1616
301(3)	24" $\phi$ x 1/2" Wall " " " "	L.F.	1729	L.F.	1729
301(4)	16" $\phi$ x 1/2" Wall " " " " Driven	Ea.	36	Ea.	36
301(5)	18" $\phi$ x 1/2" Wall " " " " "	Ea.	18	Ea.	18
301(6)	24" $\phi$ x 1/2" Wall " " " " "	Ea.	25	Ea.	25
302(1)	Barge & Restraint Cap, Furnished, Fabricated & Erected	L.S.	115,930	Lbs.	115,930
302(2)	Transfer Bridge, " " " " "	L.S.	253,000	Lbs.	253,000
302(3)	Approach, " " " " "	L.S.	407,300	Lbs.	407,300
302(4)	Catwalks & Gangways " " " " "	L.S.	8	Ea.	8
302(5)	Dolphin Cap. & Mod. " " " " "	L.S.	3	Ea.	3
302(6)	Dolphin A-D Cap & Fenders " " " " "	L.S.	4	Ea.	4
302(7)	Dolphin E " " " " "	L.S.	1	Ea.	1
302(BA)	Approach Pedestrian Rail	L.S.	All Req'd	L.S.	All Req'd
302(BB)	Approach Cover	L.S.	All Req'd	L.S.	All Req'd
501	Electrical & Illumination	L.S.	All Req'd	L.S.	All Req'd
601	Uplands Guardrail & Pedestrian Rail	L.S.	145.25	L.F.	145.25

- ① Includes approx. 30 yd<sup>3</sup> of Class A-A Concrete Fill
- ② Includes approx. 30 yd<sup>3</sup> of Class A-A Concrete Fill
- ③ Includes approx. 3 yd<sup>3</sup> of Class A-A Concrete for Deck & 15.3 yd<sup>3</sup> of Class A-A Concrete for Abutment
- ④ Includes approx. 13 yd<sup>3</sup> of Class A-A Concrete for Deck
- ⑤ Includes approx. 120 ft<sup>2</sup> Standby Generator Building
- ⑥ Alternate "A"
- ⑦ Alternate "B"

TRAFFIC CONTROL PLAN

1. The Contractor shall designate one of his employees the responsibility of installing and maintaining all required traffic control elements. All traffic control elements shall be maintained 24 hours a day.
2. All construction signing shall remain in place until the condition they delineate no longer exists.
3. Once the Contractor begins improvements to the existing staging area the following traffic controls will remain in force until the project is completed.
  - A. 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.
  - B. 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.
  - C. Terminal personnel will dock, linehandle, stage traffic and operate the transfer equipment.
  - D. Contractor shall provide safe access and lighting for Terminal personnel to tie up points, as required, throughout the Contract.
  - E. Once traffic has been switched to the new structures Term. personnel will operate the new structures with assistance and instruction from the Contractor.
4. The Contractor shall not stockpile any materials in the existing staging area without approval of the Engineer.

GENERAL NOTES

Specifications --

Construction: Per Contract Documents for Project No. F-095-4(15) and A38502  
 Design: Transfer Bridge and Approach -- AASHTO 1977 with latest interim specifications  
 Barge and Dolphins -- Marine Facilities Design Standards

Design Loads --

Bridge and Approach:  
 LL -- HS20-44 and 60 psf pedestrian  
 DL -- no allowance for future wearing surfaces  
 Barge:  
 DL+LL Bridge with barge immersed or suspended from Restraint Dolphins  
 Hull -- 7 ft. max. immersion  
 Dolphins A-D:  
 Berthing E 30 ft. - Kips Service  
 76 ft. - Kips Overload (Fall + 1.5 x F<sub>s</sub>)  
 Mooring Line - 30 Kips  
 Dolphin E:  
 Berthing E 70 ft. - Kips Service  
 150 ft. - Kips Overload (Fall = 1.5 x F<sub>s</sub>)  
 Restraint Dolphins:  
 Vertical - Barge suspended + Bridge DL+LL  
 Horizontal - Barge 7 ft. immersion and 6 Kt current

Design Unit Stresses --

Steel: A36 F<sub>y</sub> = 20 Ksi  
 A252 Gr. 2 F<sub>y</sub> = 19.25 Ksi  
 A500 Gr. B F<sub>y</sub> = 25 Ksi  
 A572 F<sub>y</sub> = 27 Ksi  
 A108 F<sub>y</sub> = 29 Ksi  
 A608 Gr. D F<sub>y</sub> = 30 Ksi  
 Concrete: F<sub>c</sub> @ 28 days = 5.5 Ksi  
 Reinforcing Steel: F<sub>y</sub> = 60 Ksi  
 Glu-Lam Timber: Comb 2 Wet Use F<sub>b</sub> = 1.4 Ksi  
 Ekki Timber: F<sub>b</sub> = 4 Ksi

*missed this completely used spec's (5,000 psi) which do not agree -*

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  
 All other shall be A36 or A572 as noted. Charpy Group 2 impact requirements shall apply, to tensile stress members only, called out on bridge & approach dwg's.  
 Concrete: Class A-A  
 Reinforcing Steel: A615 Gr. 60  
 Timber: Glulam Comb 2 Doug Fir/Larch  
 Fender Faces EKK1

Protective Coatings --

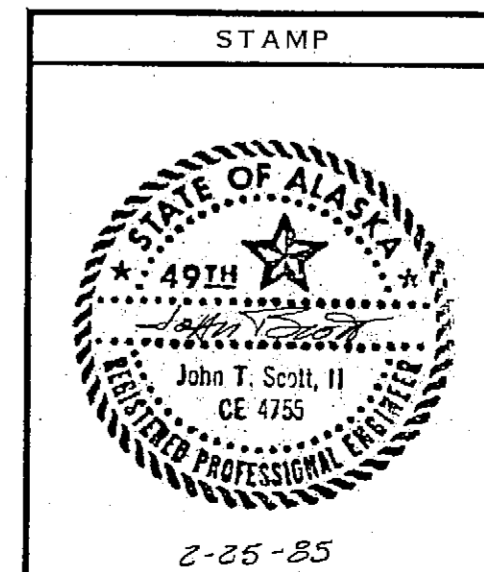
Barge: System 1 (Section 303) Platform galv. after fabrication  
 Transfer Bridge: \* System 2, 3 or 4 (Section 303)  
 Catwalks (1 thru 3 and 6 thru 8): System 2, 3 or 4 \*\*  
 Catwalks (4 and 5) -- Galvanize after fabrication  
 All Rails and grating: Galvanize after fabrication  
 Approach substructure and superstructure: Galvanize after fabrication  
 Fender Face Timbers: Untreated EKK1  
 Glu-Lam Backwall: Creos. 12 pcf  
 Reinforcing Steel: Galvanize after fabrication, or epoxy coat  
 Hardware: Galvanize unless otherwise noted  
 \*except Apron: Galvanize after fabrication  
 \*\*except Handrails: Galvanize after fabrication

Piling --

Size: 16"  $\phi$  x 1/2" wall, 18"  $\phi$  x 1/2" wall and 24"  $\phi$  x 1/2" wall  
 Tips: APF 0-14000 shoes or equal (APF 0-14000 on Dolphin Batter Piles, or equal)  
 Driving Requirements:

Location / Orientation	Dia. (in.)	Capacity (tons)		Tip Elevations		Cutoff Elev.
		Bearing	Uplift	Min.	Est.	
Dolphin / Vertical	18	100	67	-55	-65	+24.40
" / Batter	18	50	50	-50	-55	+30.33
" / Fender	24	-	-	-40	-40	Varies
Restraint / Vertical ①	16	100	-	-50	-60	+31.00 32.00
" / Batter ①	16	-	-	-50	-50	+35.03 36.03
Tr. Br. & App. Abutment ①	16	60	-	-30	-48	+18.88
Pier 6	16	90	-	-20	-45	+19.77
Pier 5	16	90	-	-15	-45	+19.77
Pier 4	16	60	-	-12	-35	+19.77
Pier 3	16	40	-	-10	-30	+20.78
Pier 2	16	40	-	-7	-30	+20.78
Abutment 1	16	30	-	-5	-25	+21.03

- ① Concrete Filled
- ② Drive to 15' penetration
- ③ Drive to 30' penetration



*AS-BUILT*

STAMP

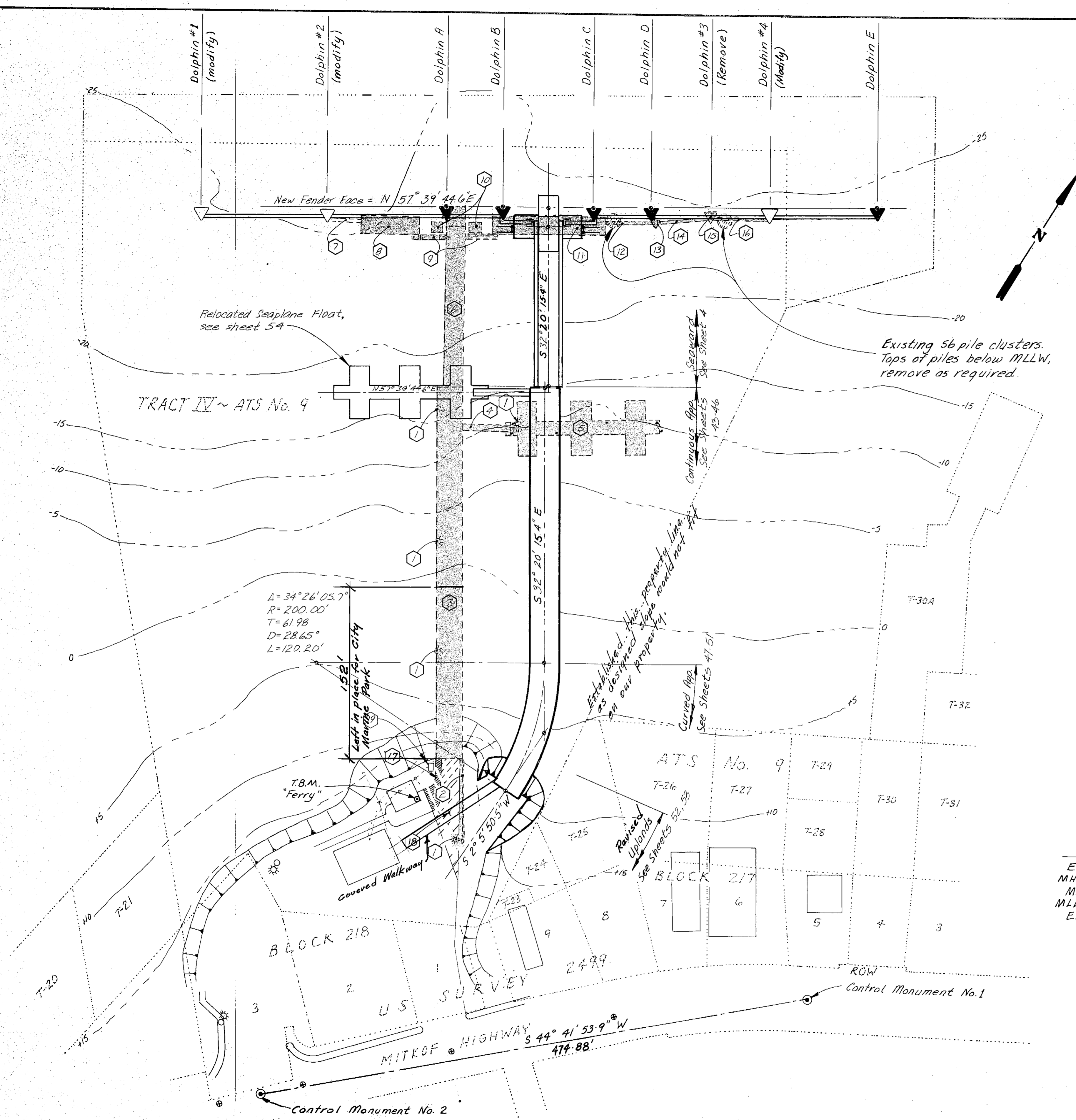
DO NOT SCALE THIS DRAWING -- USE DIMENSIONS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

QUANTITIES  
 AND GENERAL NOTES

SCALE: *N/A* SURVEYED: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
 DESIGNED: *JS* DRAWN: *JS*  
 CHECKED: \_\_\_\_\_ DATE: *3-84*

PROJECT NUMBER: *A38502* SHEET: *2* OF *62*



Item #	Description	Quantity
1	Remove & Dispose Light Standard & Conductors	5 ea.
2	Remove & Dispose Guardrail	172' ~75 lf 3956
3	Remove & Dispose Timber Approach (23'x24')	7542 ft <sup>2</sup>
4	Relocate 6'x50' Gangway	1 ea.
5	Relocate Seaplane Float, Remove & Dispose piles	1 ea.
6	Remove & Dispose Timber Truss Transfer Bridge (20'x40')	1 ea.
7	Remove & Dispose Steel Catwalk (29'x6")	1 ea.
8	Remove & Dispose Timber Dock (16'x50')	~800 ft <sup>2</sup>
9	Remove & Dispose Timber Access Stairs & Landings	2 ea.
10	Remove & Dispose Timber Counterweight Towers	2 ea.
11	Remove & Dispose Timber Dock (16'x100')	~1600 ft <sup>2</sup>
12	Remove & Dispose Steel Catwalk (46'x10')	1 ea.
13	Remove & Dispose L-pile Steel Catwalk Support	1 ea.
14	Remove & Dispose Steel Catwalk (46'x10')	1 ea.
15	Remove & Dispose Steel Mooring Dolphin	1 ea.
16	Remove & Dispose Steel Catwalk (48'x6")	1 ea.
17	Remove & Dispose Conc. S/W & C#4 & Rail	~1150 ft <sup>2</sup> ~270 ft <sup>2</sup>
18	Remove & Dispose Pavement	~2000 ft <sup>2</sup> ~2000 ft <sup>2</sup>
19	Relocate Timber Frame Shed Remove & Dispose	1 ea.

Horizontal Control:  
 Basis of Bearing \* Distance - Control Mon. No. 1 to Control Mon. No. 2 (Mittkof Hwy.) S 44° 41' 53.9" W - 474.88 ft. & Highway monuments in cases.

Vertical Control:  
 T.B.M. "Ferry" - Elev. +27.04 3/8" rebar East corner foundation slab north of Terminal Bldg. See Sheet 53.

\* Some items listed include salvage of components, See Tech. Specs. Sect. 201.

COORDINATE DATA		
Point Description	Northing	Easting
Control Monument - E Mittkof Hwy. No. 1	7541.454	11589.384
Control Monument - E Mittkof Hwy. No. 2	7203.900	11255.366
E Transfer Bridge @ Fender Face Line	8000.950	11048.006
E Transfer Bridge @ E Cap-Tr. Br./App. Abutment	7866.715	11132.989
E Approach @ E Cap-Tr. Br./App. Abutment	7865.004	11130.287
E Approach @ P.T. & E Pier 4	7662.226	11258.665
Radius Point of Approach Curve	7555.244	11089.683
E Approach @ P.C. (Abutment)	7547.925	11289.549

Note: Removal & Construction to be staged. See Tech. Specs. Section 201. Contractor shall provide labor, tools and equipment required to remove existing piles or stubs, in their entirety, to make way for new.

Tidal	Date
EHW	20.0
MHHW	16.4
MHW	14.8
MLLW	0.0
ELW	-4.5

# PETERSBURG FERRY TERMINAL

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

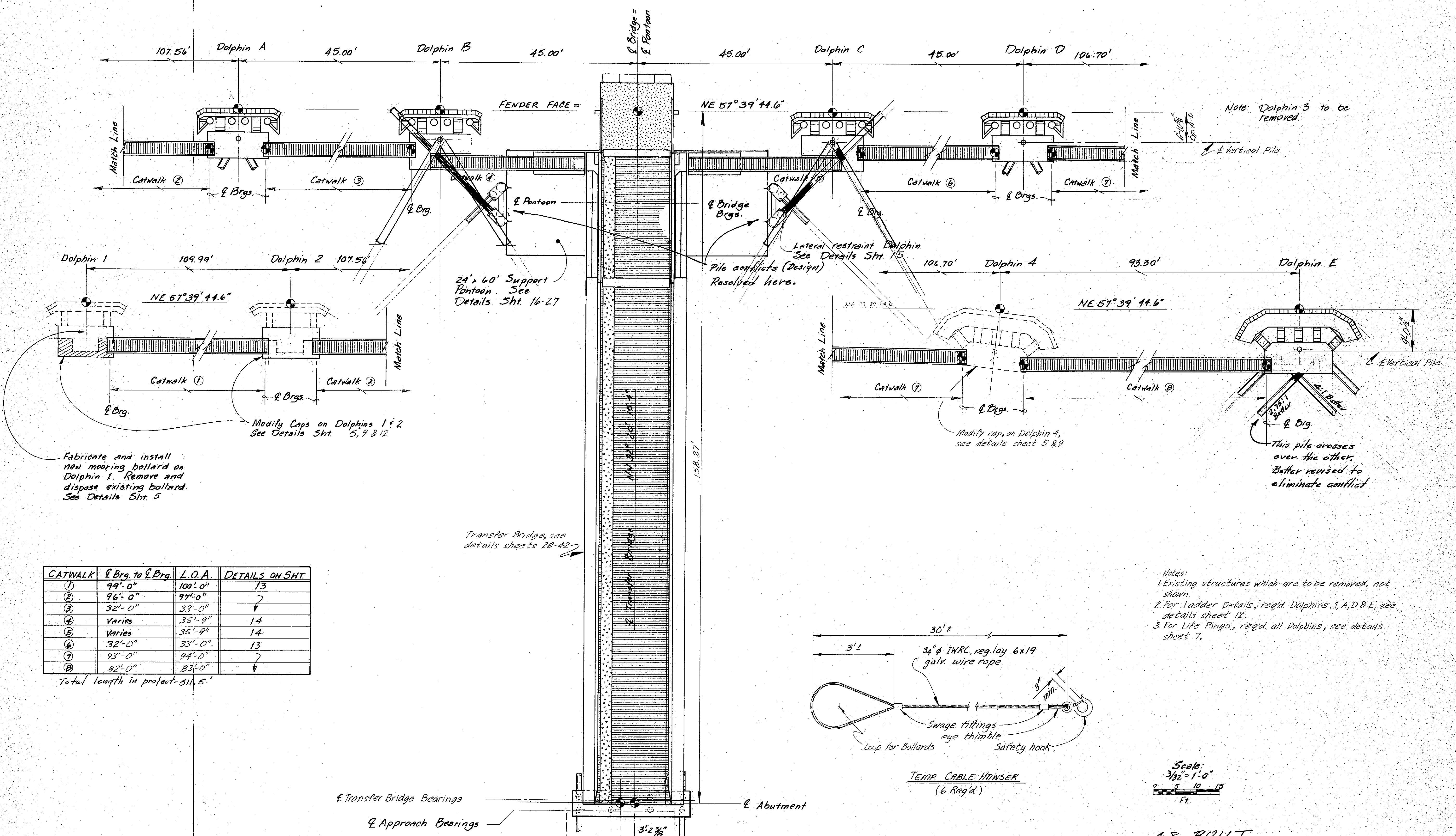
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

GENERAL LAYOUT

DESIGNED *ML* CHECKED *SB* DRAWN *ML/LWB* DATE *1-84*

PROJECT NUMBER *F-095-9(15) & A38502* SHEET *3* OF *61*

2/26/85



CATWALK	℄ Brg. to ℄ Brg.	L.O.A.	DETAILS ON SHT.
①	99'-0"	100'-0"	13
②	96'-0"	97'-0"	7
③	32'-0"	33'-0"	7
④	Varies	35'-9"	14
⑤	Varies	35'-9"	14
⑥	32'-0"	33'-0"	13
⑦	93'-0"	94'-0"	7
⑧	82'-0"	83'-0"	7

Total length in project - 511.5'

Fabricate and install new mooring bollard on Dolphin 1. Remove and dispose existing bollard. See Details Sht. 5

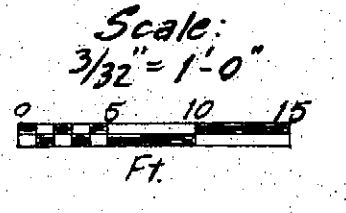
Modify Caps on Dolphins 1 & 2 See Details Sht. 5, 9 & 12

Transfer Bridge, see details sheets 28-42

Lateral restraint Dolphin See Details Sht. 15  
Pile conflicts (Design) Resolved here.

Note: Dolphin 3 to be removed.

- Notes:
- Existing structures which are to be removed, not shown.
  - For Ladder Details, req'd Dolphins 1, A, D & E, see details sheet 12.
  - For Life Rings, req'd all Dolphins, see details sheet 7.

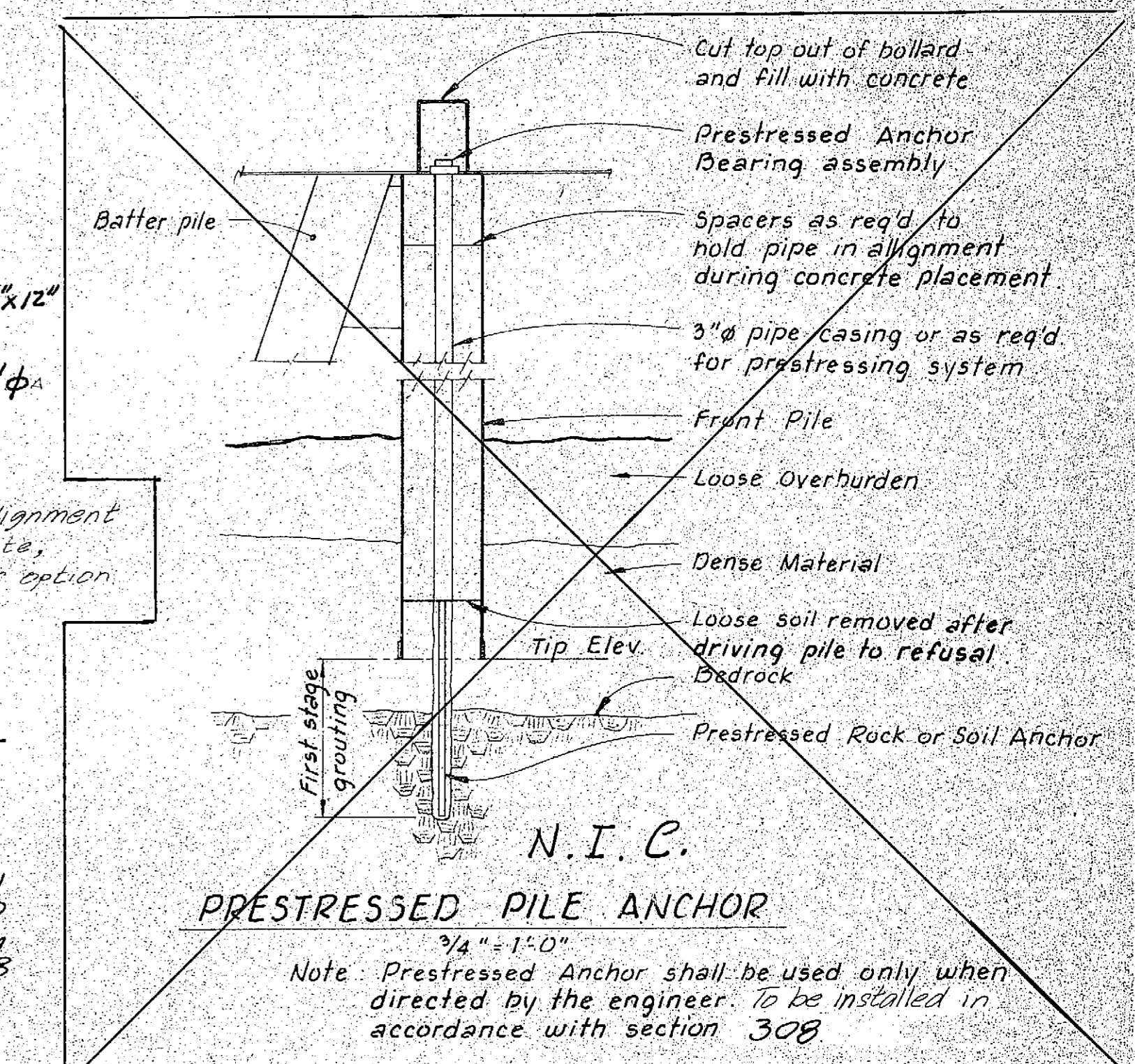
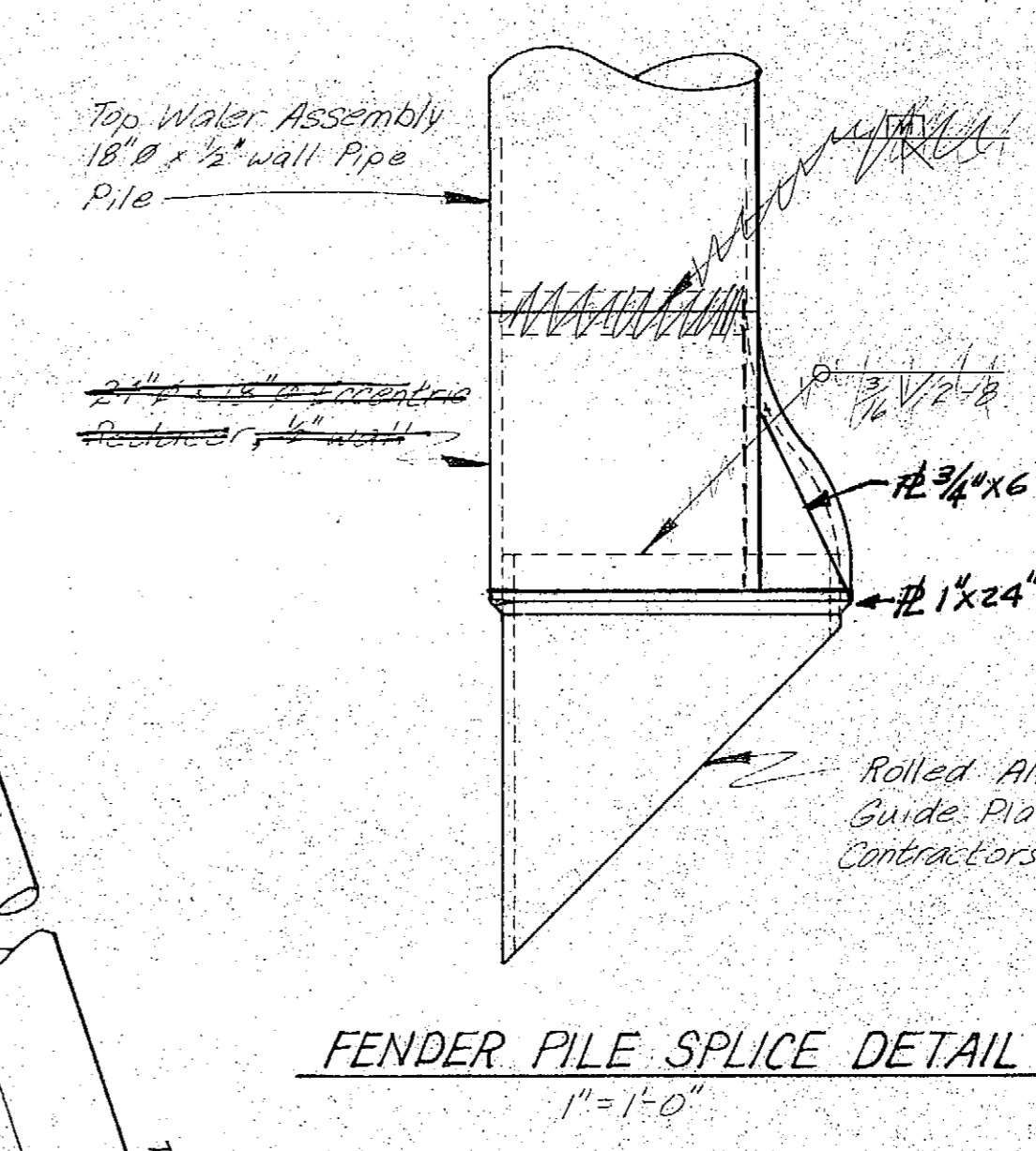
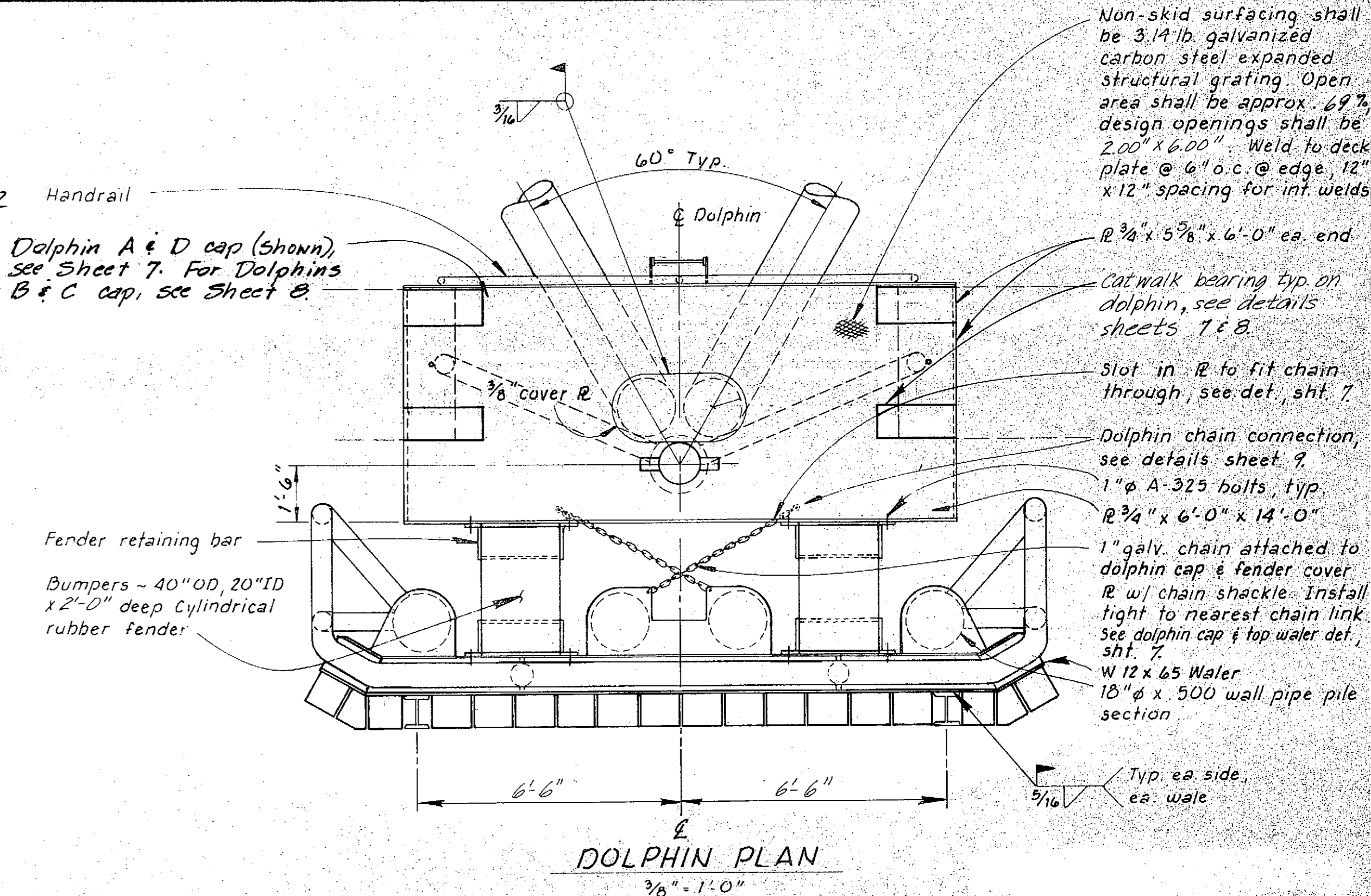
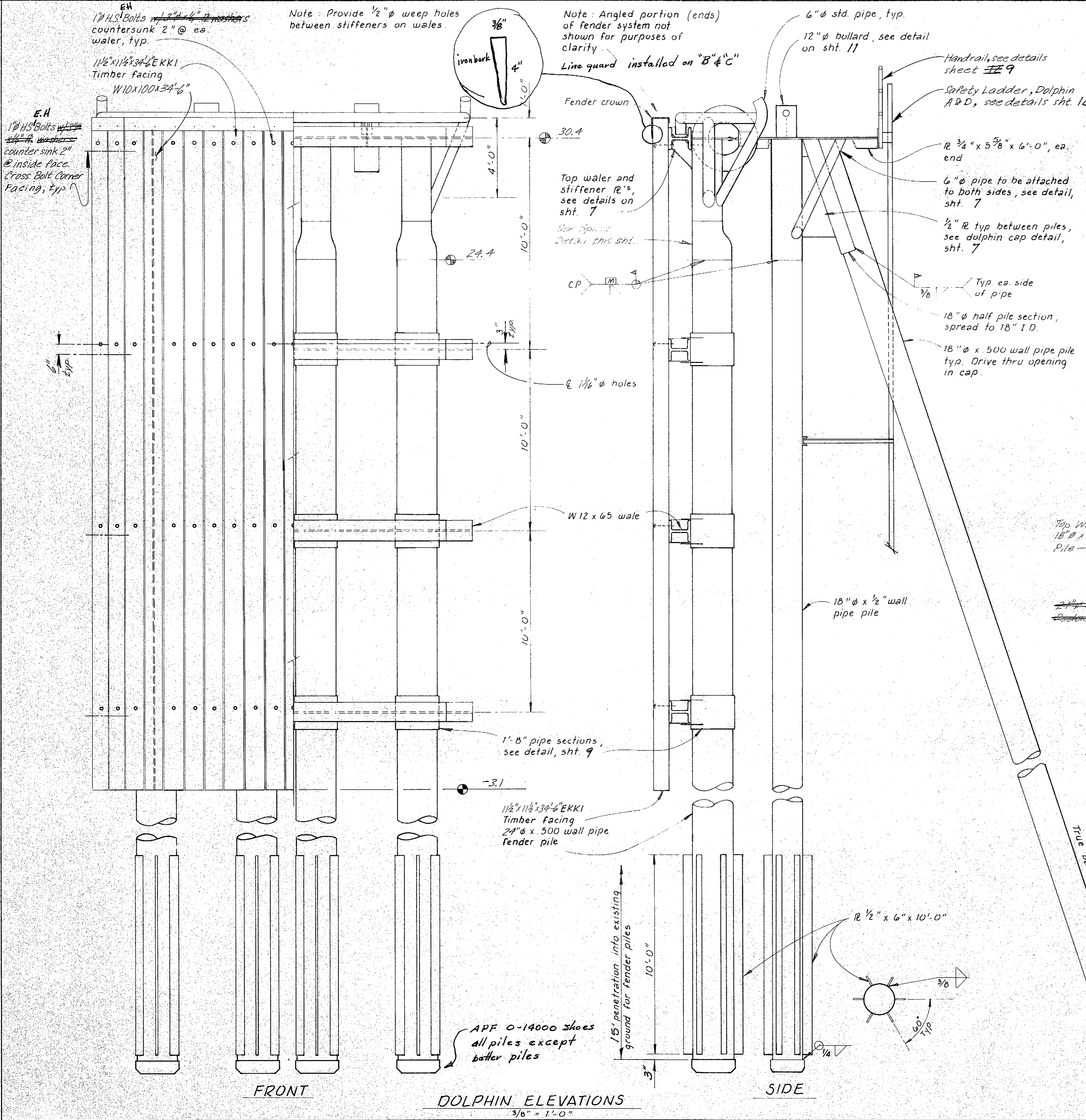


**A-S-BUILT**

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
<b>SEAWARD TERMINAL LAYOUT</b>			
DESIGNED <i>JAL</i>	CHECKED <i>BS</i>	DRAWN <i>JAL</i>	DATE <i>1-84</i>
PROJECT NUMBER <i>A38502</i>		SHEET <i>4</i> OF <i>62</i>	

2/25/85





Note: Details shown are typical for Dolphins A through D except caps A & D. Show this sheet, see Sheet B for caps Dolphins B & C.

Hardened steel open end cutting shoe tip on piles APF 0-14000 or equal 0 14001

FRONT

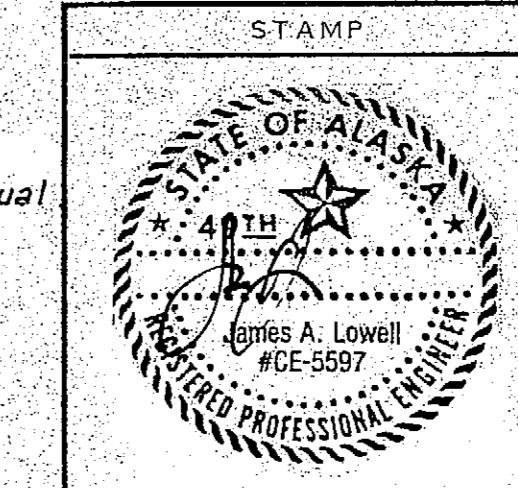
DOLPHIN ELEVATIONS  
3/8" = 1'-0"

SIDE

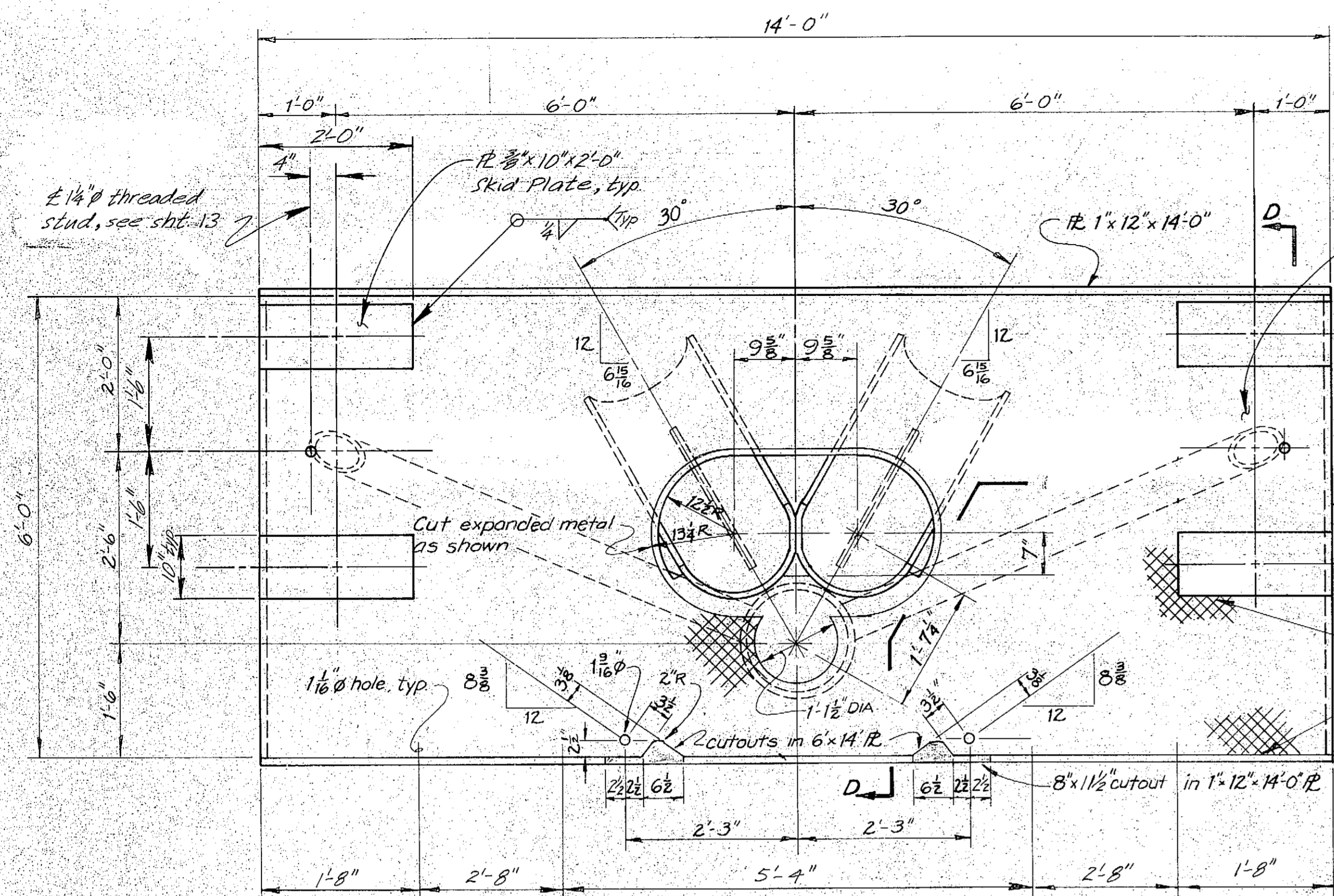
DOLPHIN PLAN  
3/8" = 1'-0"

FENDER PILE SPlice DETAIL  
1" = 1'-0"

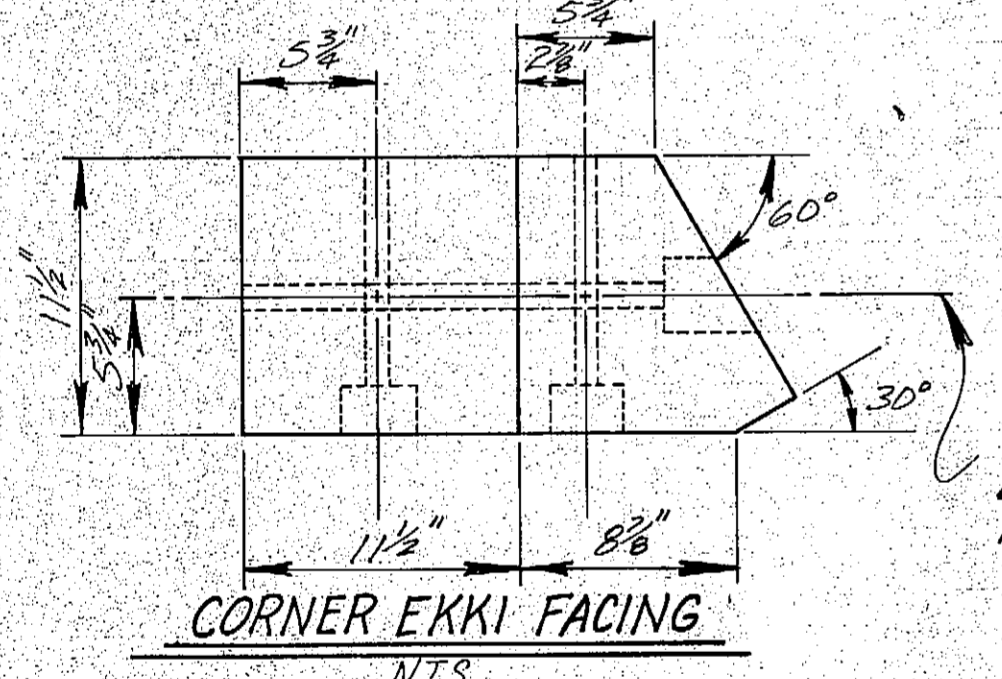
N.I.C.  
PRESTRESSED PILE ANCHOR  
3/4" = 1'-0"



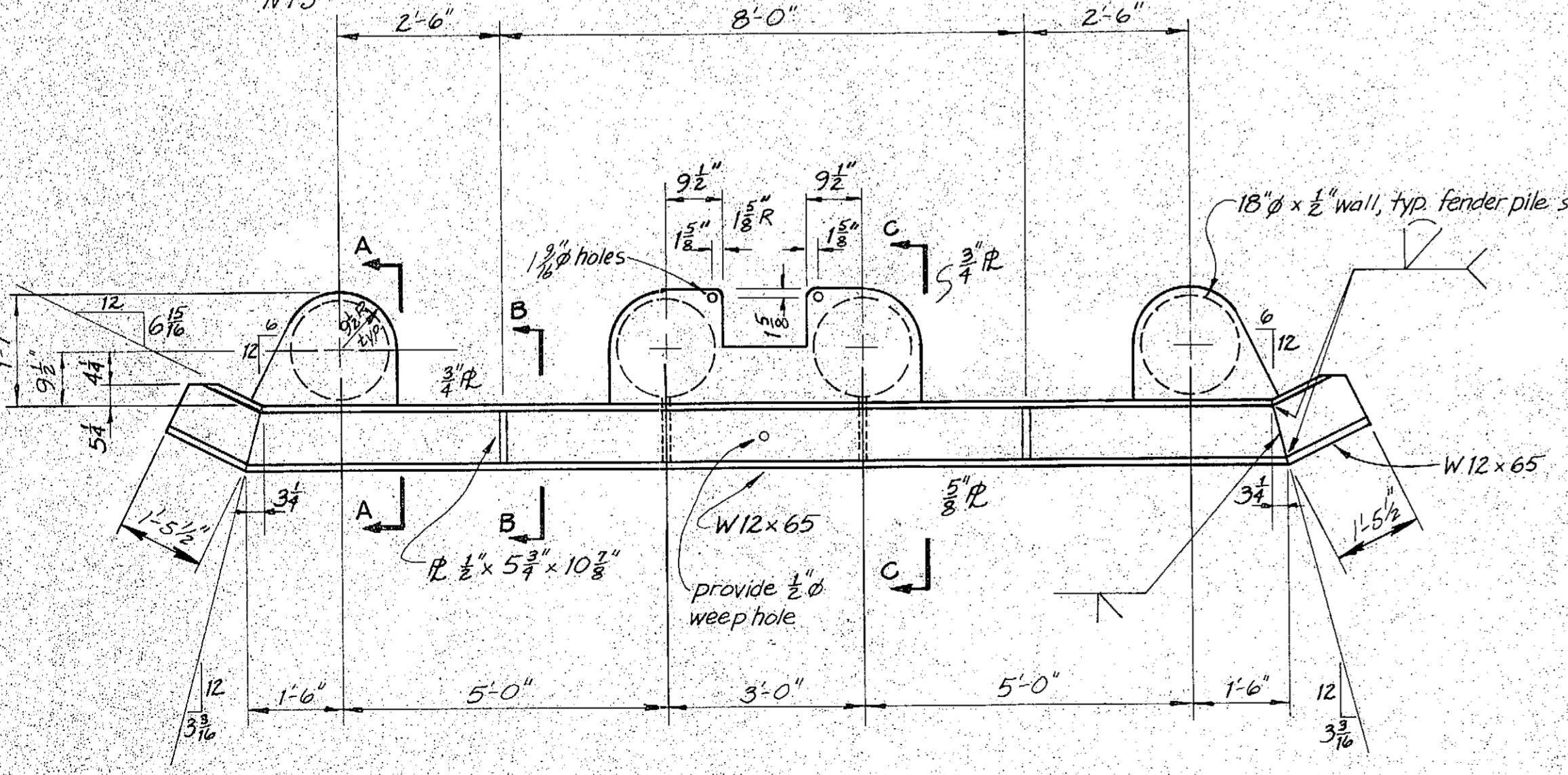
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersonburg A5-BUILT		Alaska
DOLPHIN PLAN & ELEVATIONS A & D		
SCALE: A5 Noted DESIGNED: HRM CHECKED: JS/JDB	SURVEYED: DRAWN: TS DATE: 6-83	APPROVED:
PROJECT NUMBER: A38502	SHEET 6 OF 62	



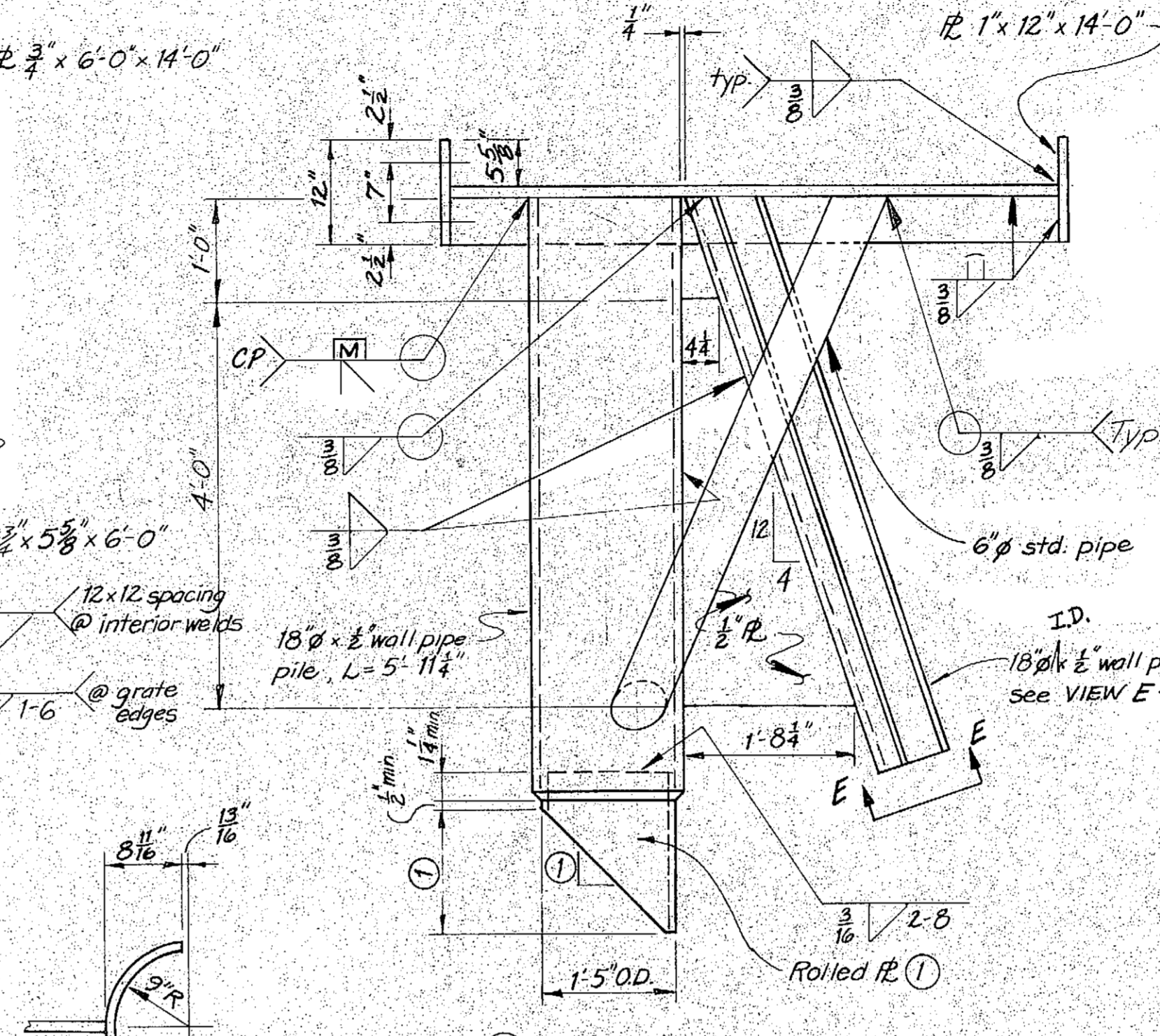
**DOLPHIN CAP DETAILS (A&D)**  
( $\frac{3}{4}$ " = 1'-0")



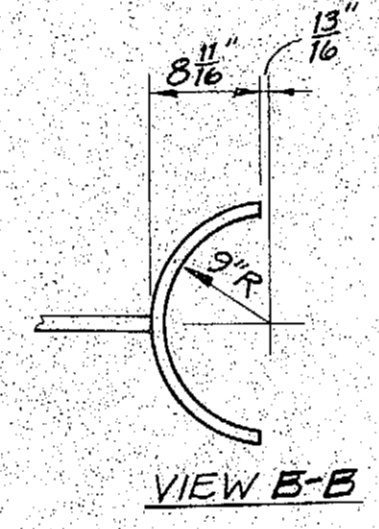
**CORNER EKKI FACING**  
NTS



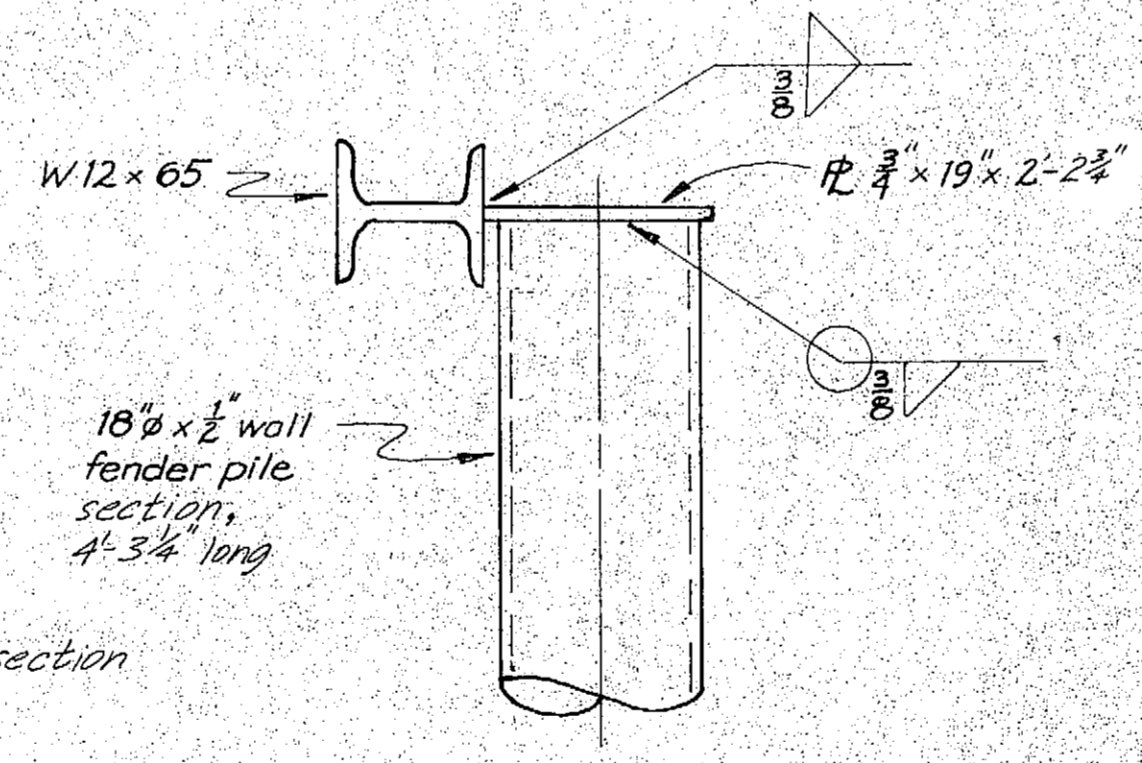
**TOP WALER DETAIL**  
( $\frac{1}{2}$ " = 1'-0")



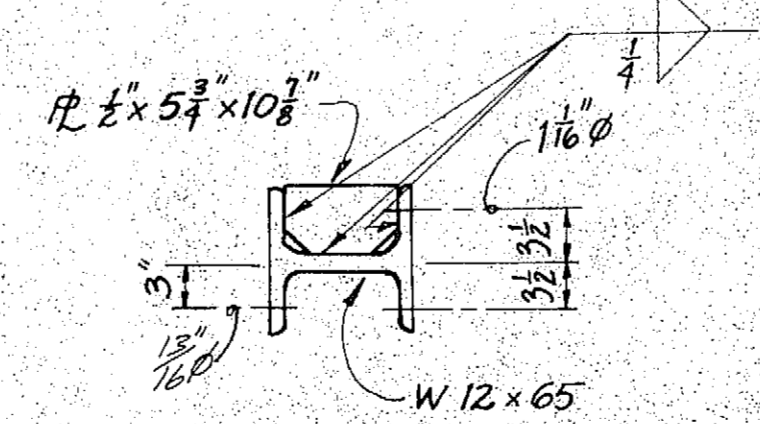
**SECTION D-D**  
( $\frac{3}{4}$ " = 1'-0")



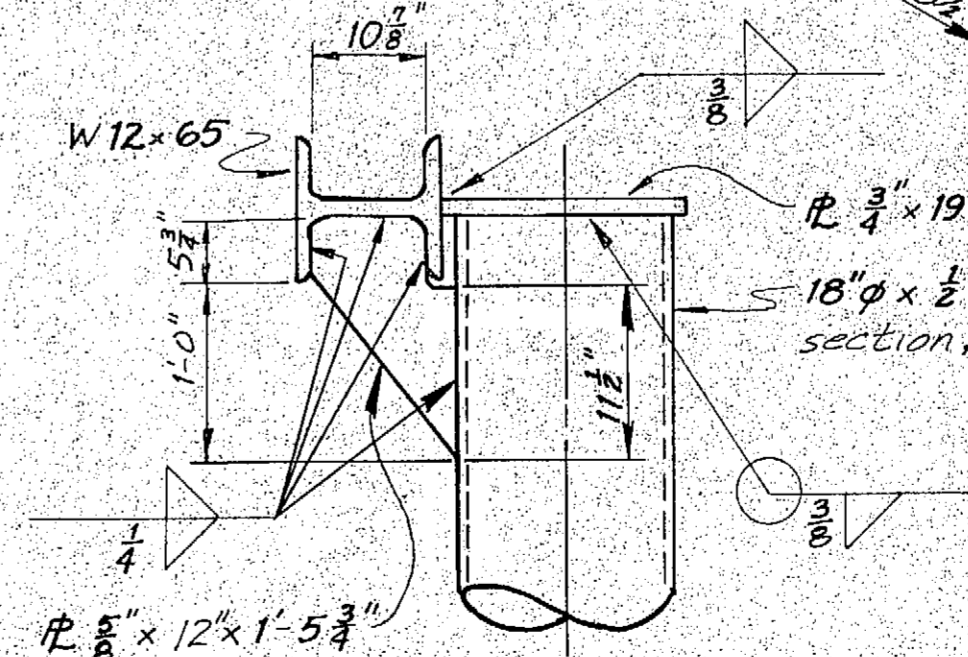
**VIEW B-B**



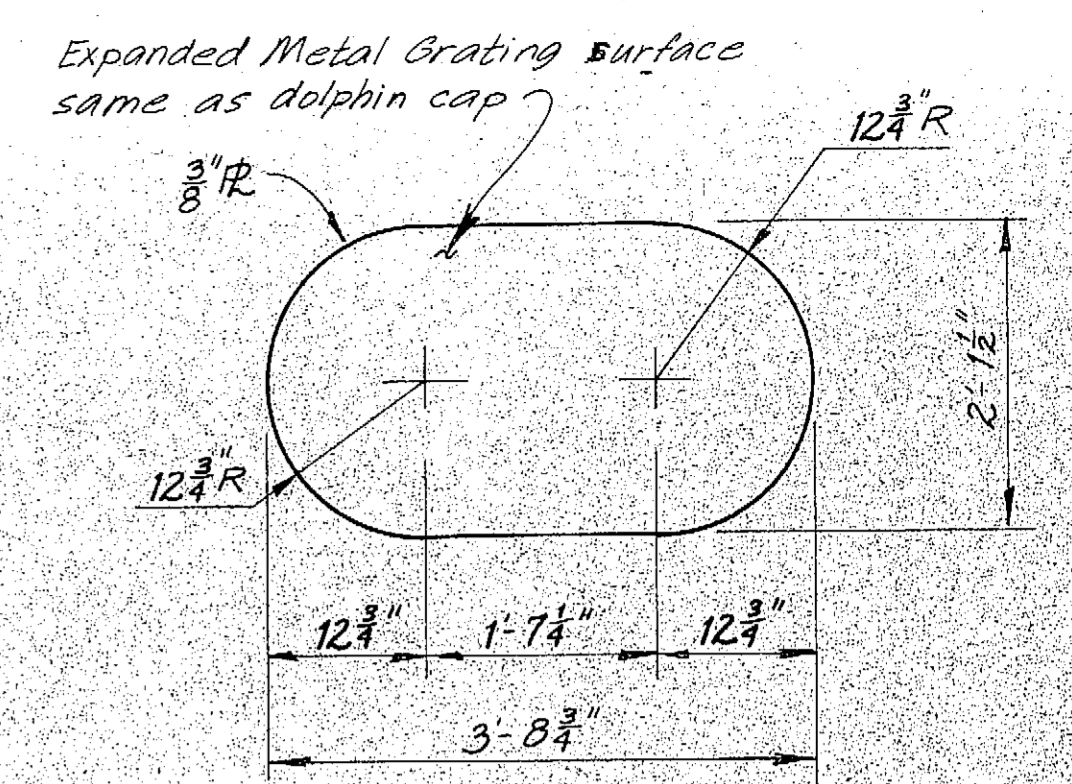
**SECTION A-A**



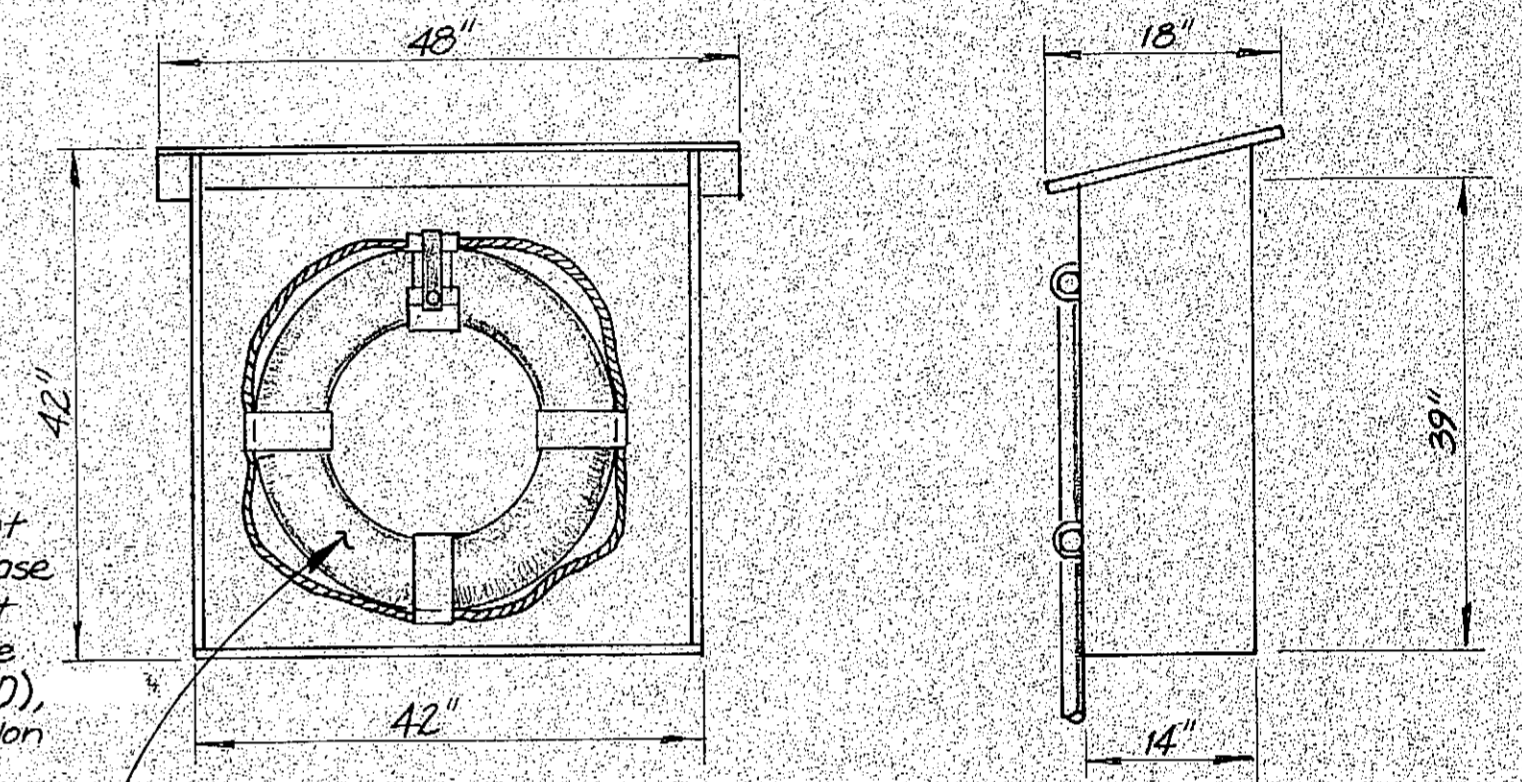
**SECTION B-B**



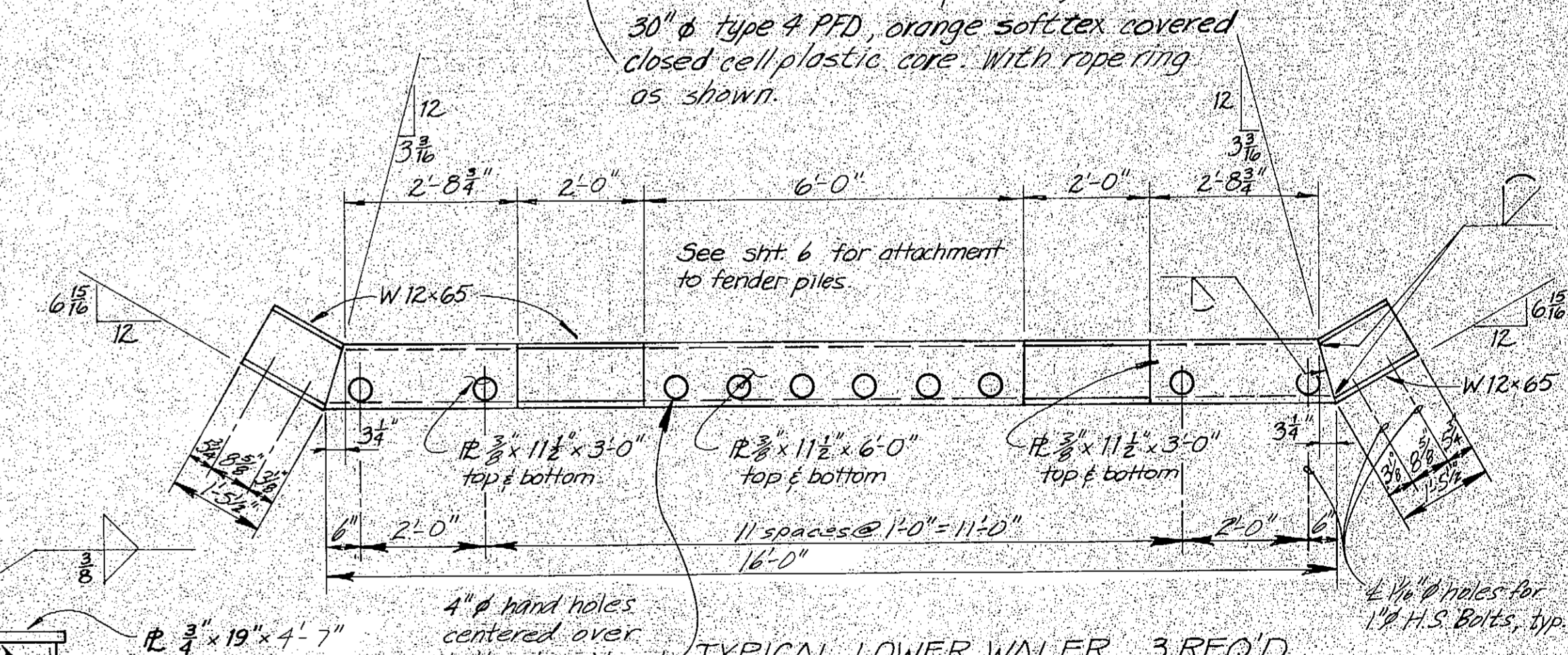
**SECTION C-C**



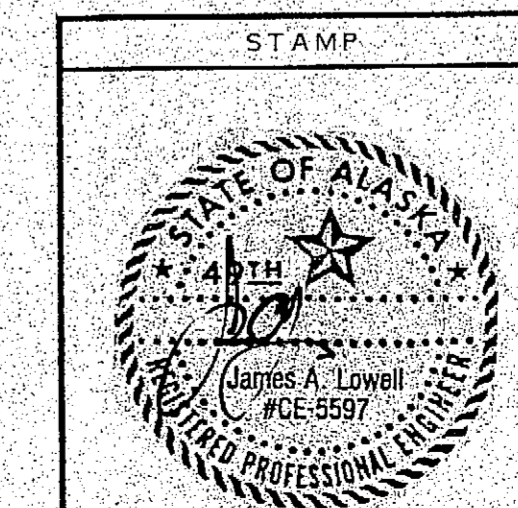
**COVER PLATE DETAIL**  
( $\frac{3}{4}$ " = 1'-0")



**LIFE RING BOX**  
( $\frac{3}{4}$ " = 1'-0")



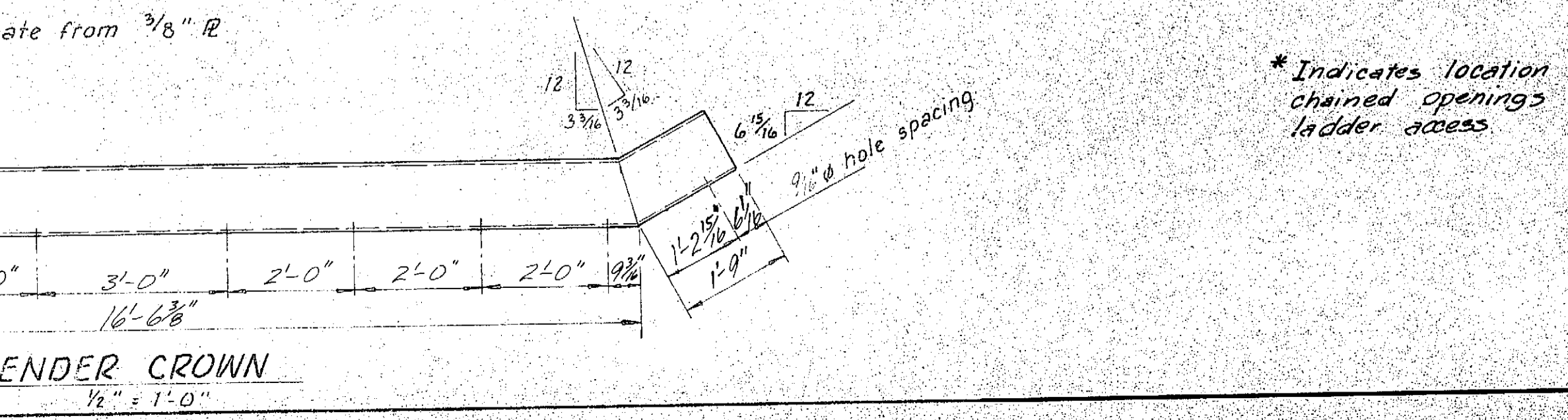
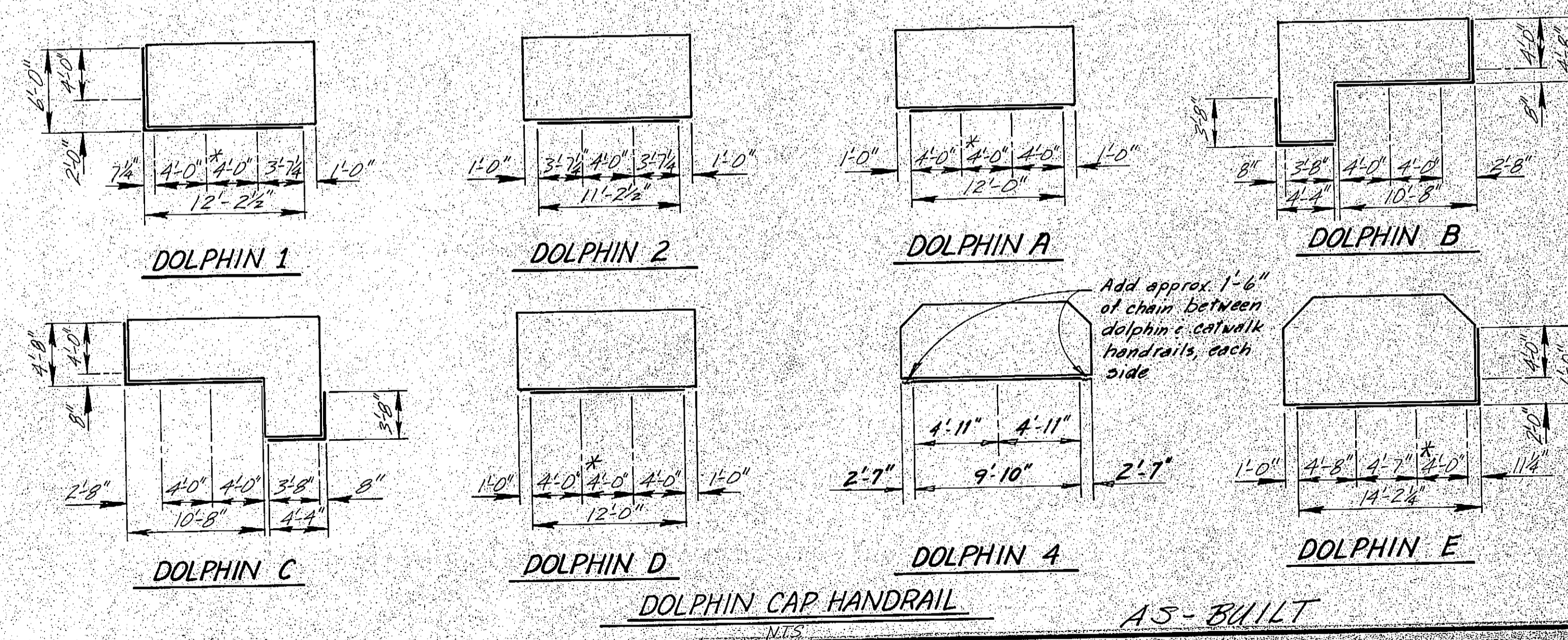
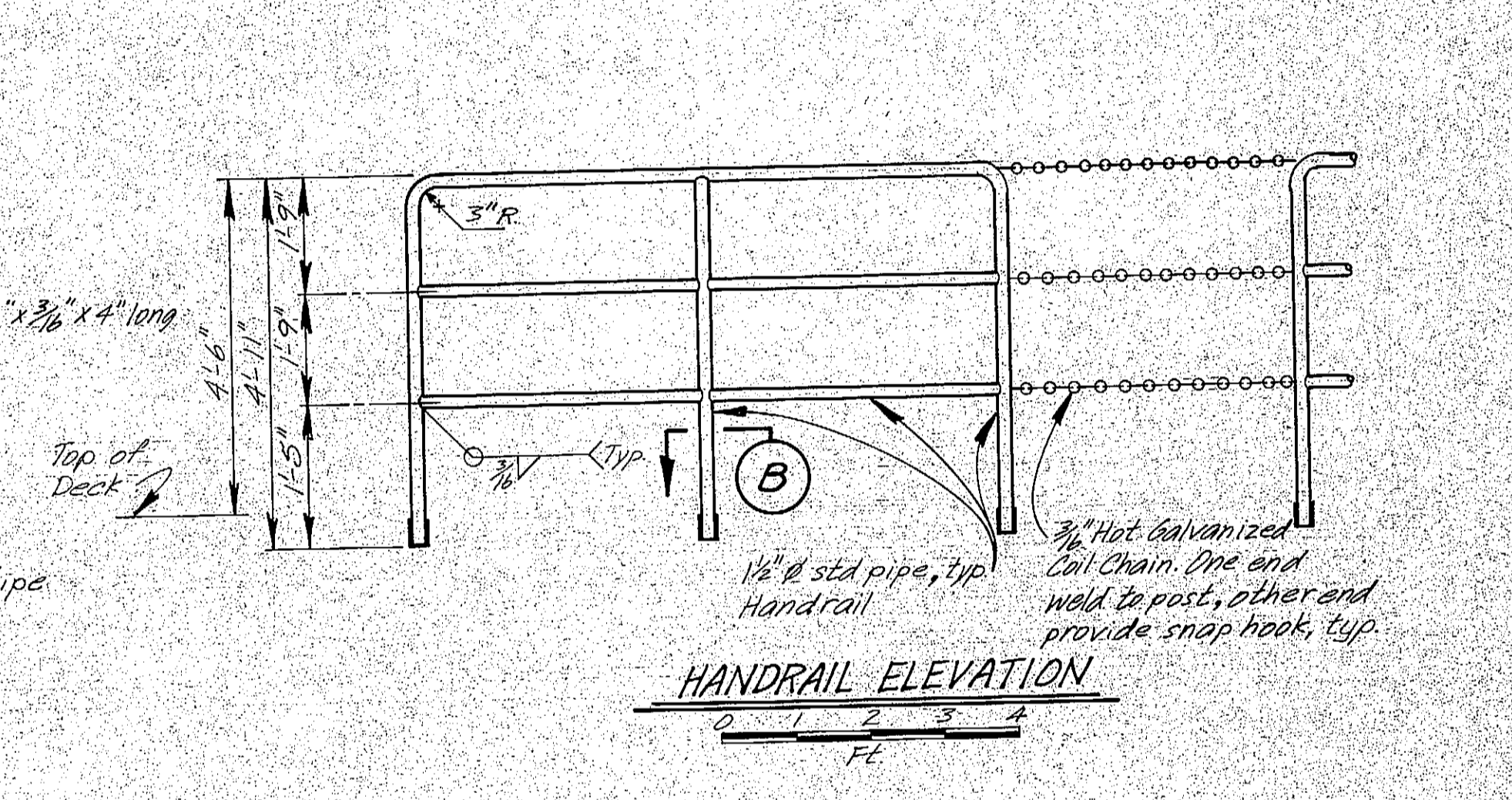
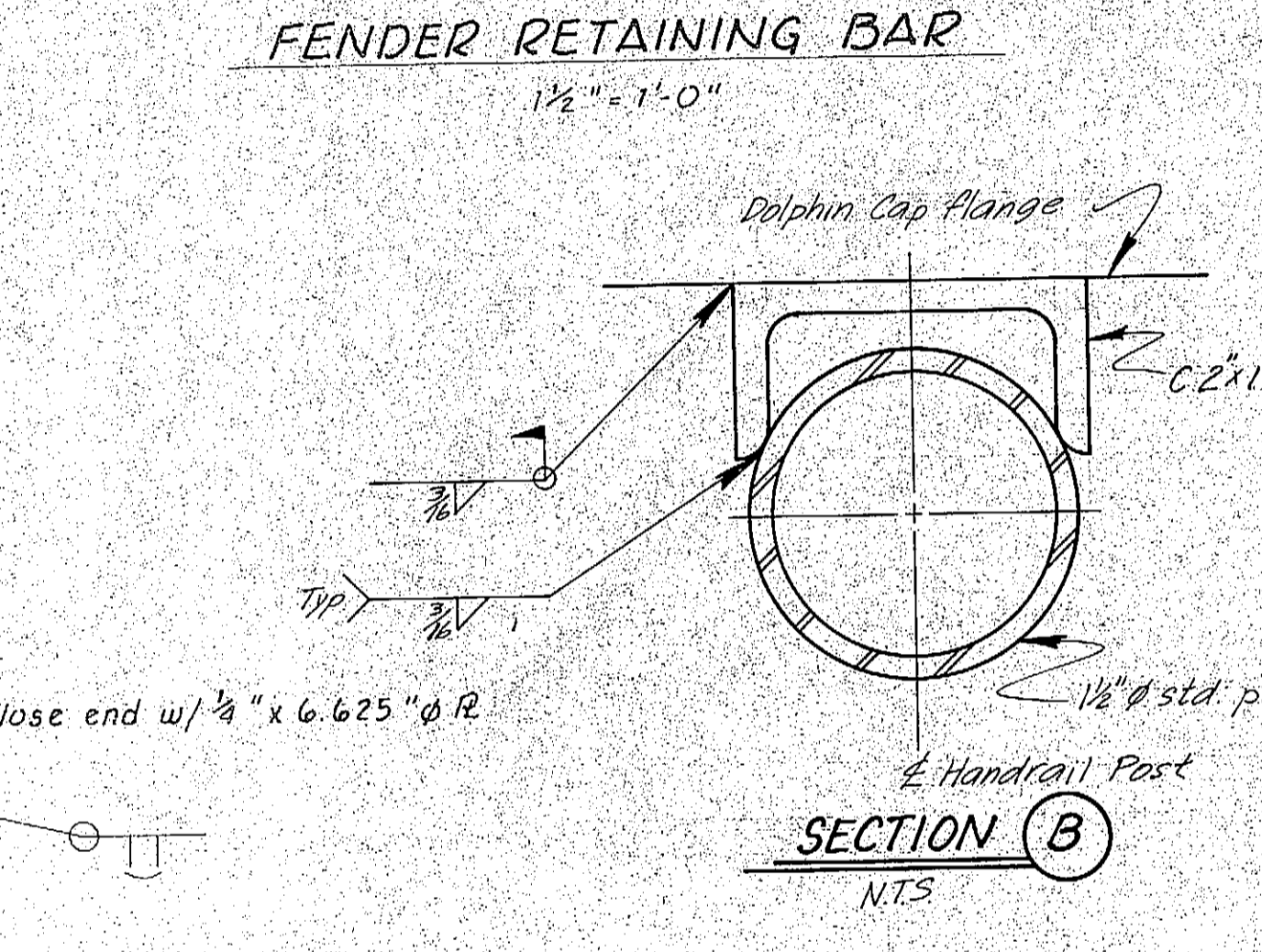
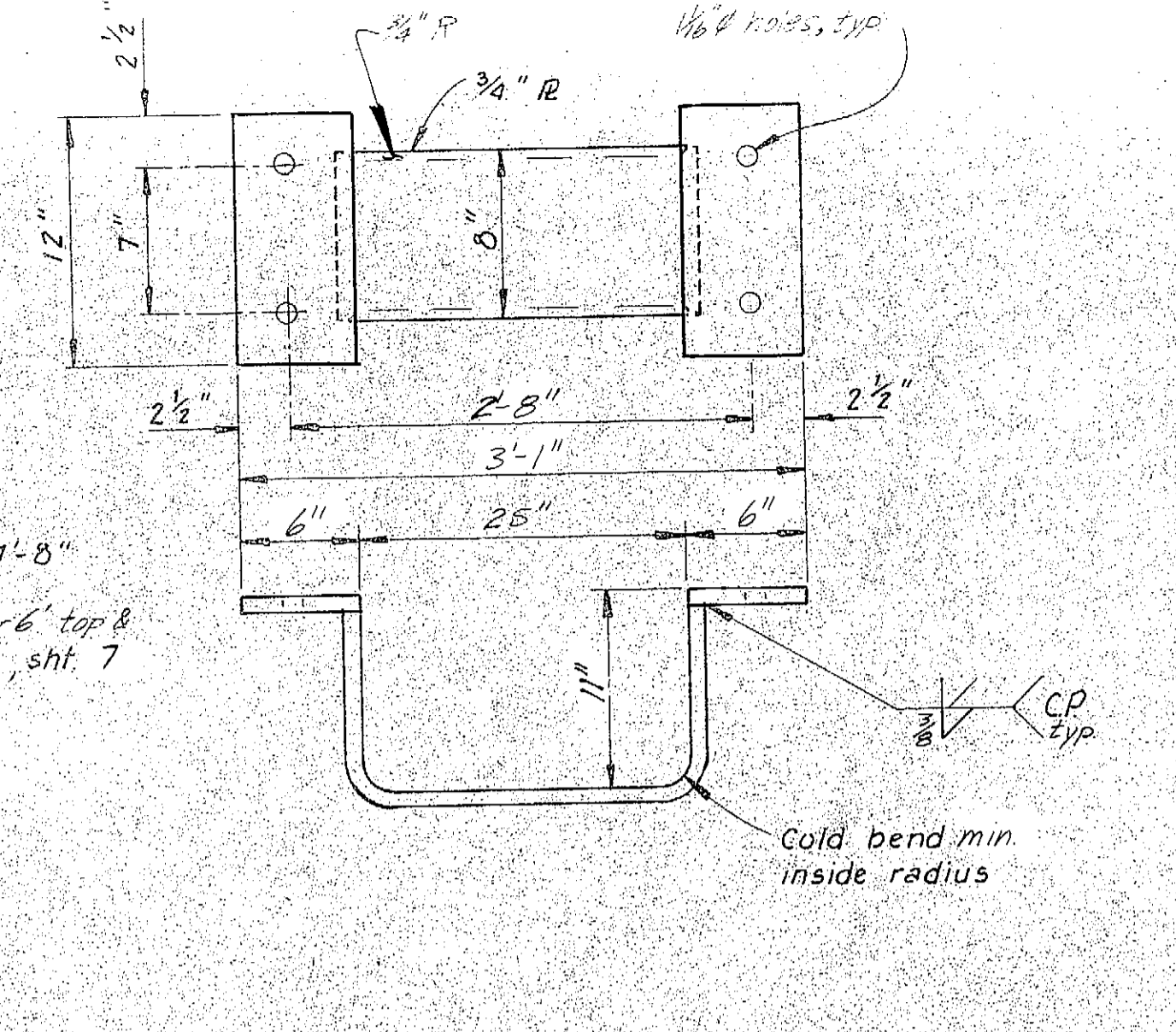
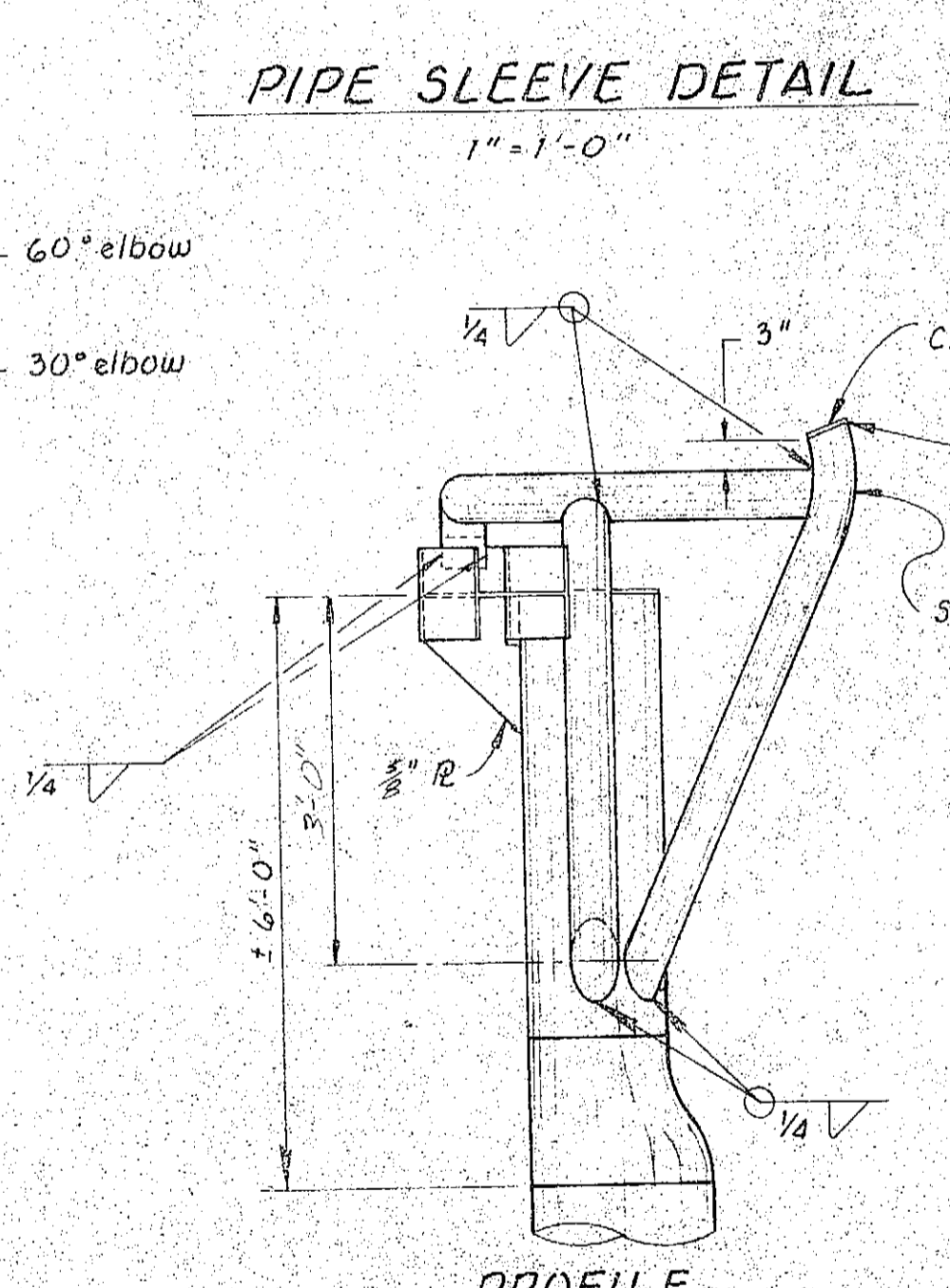
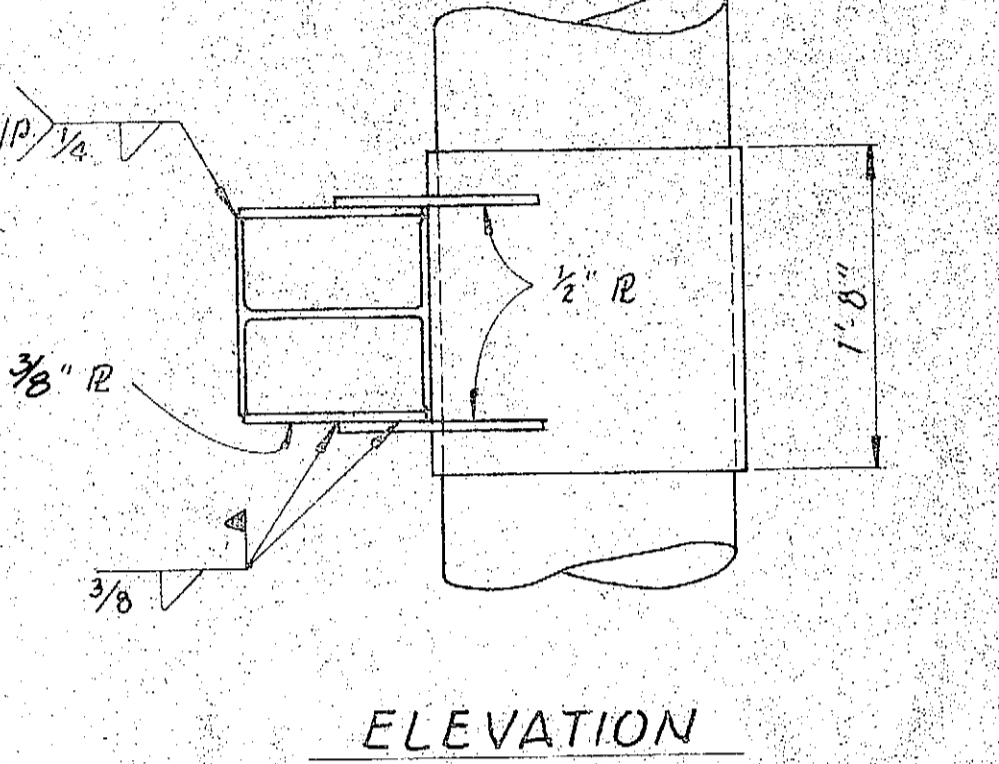
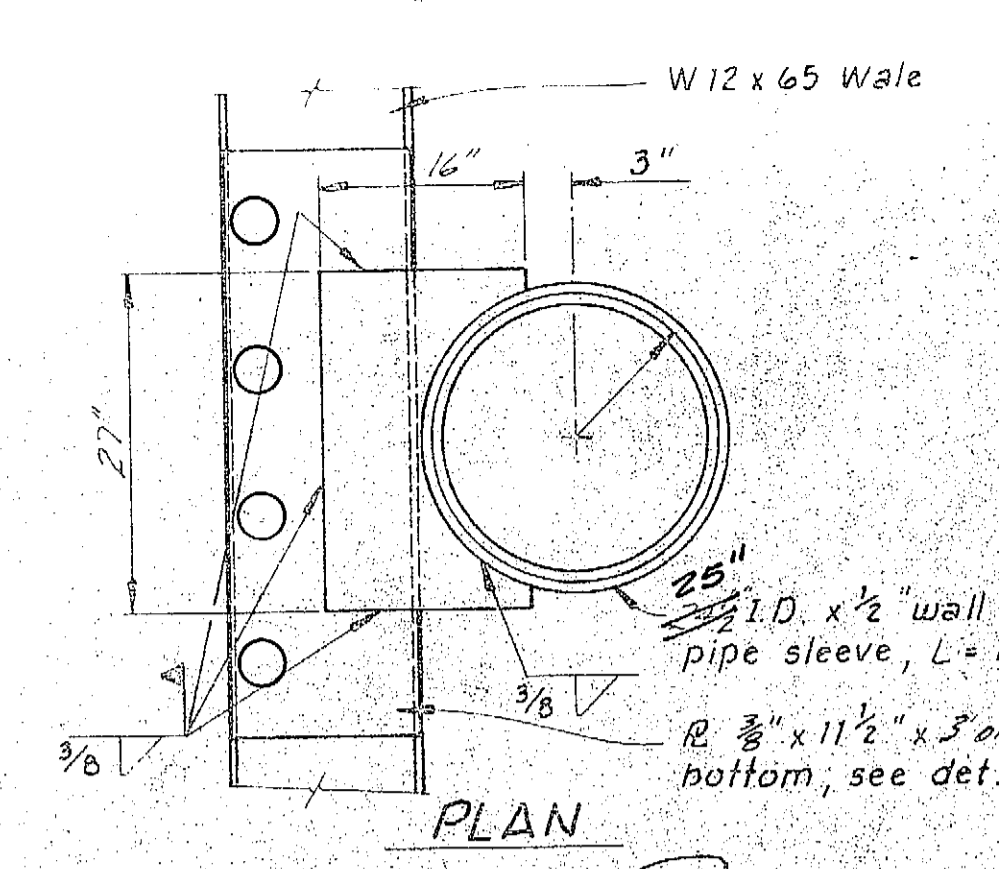
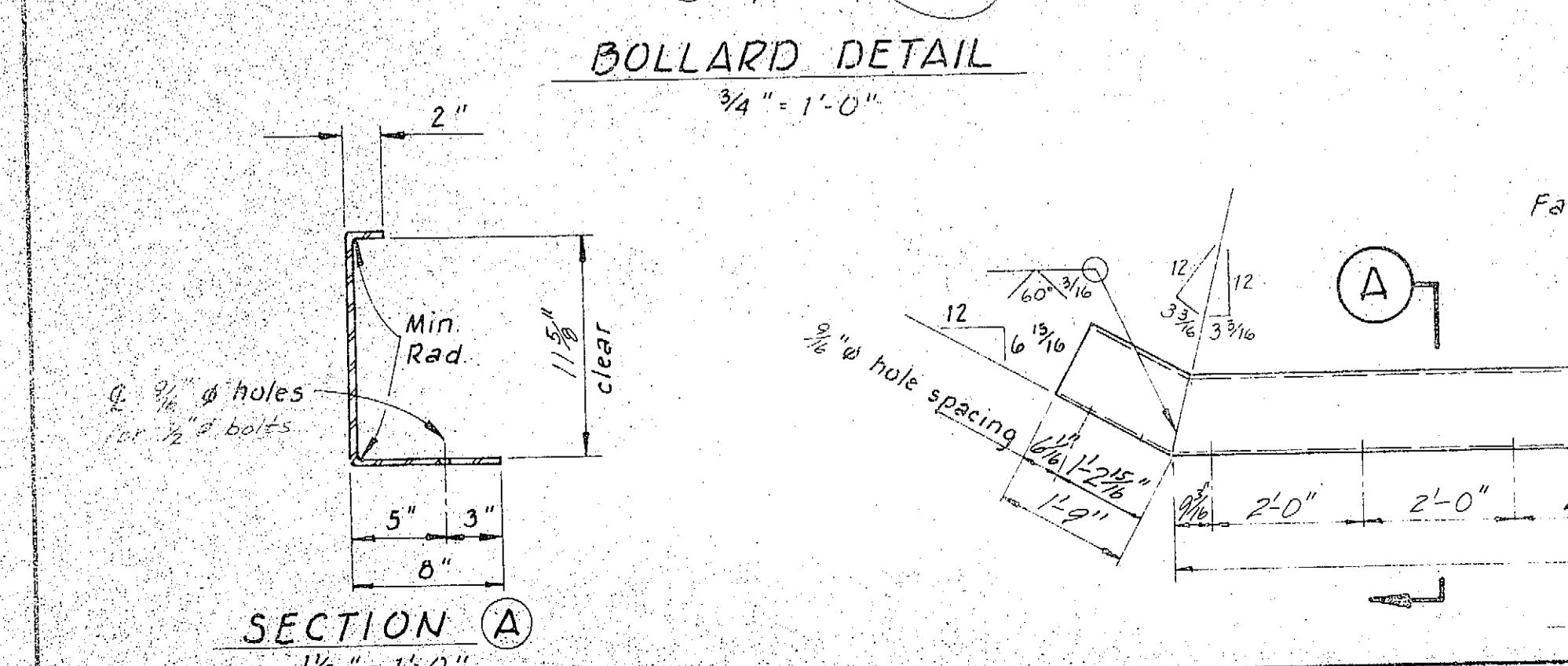
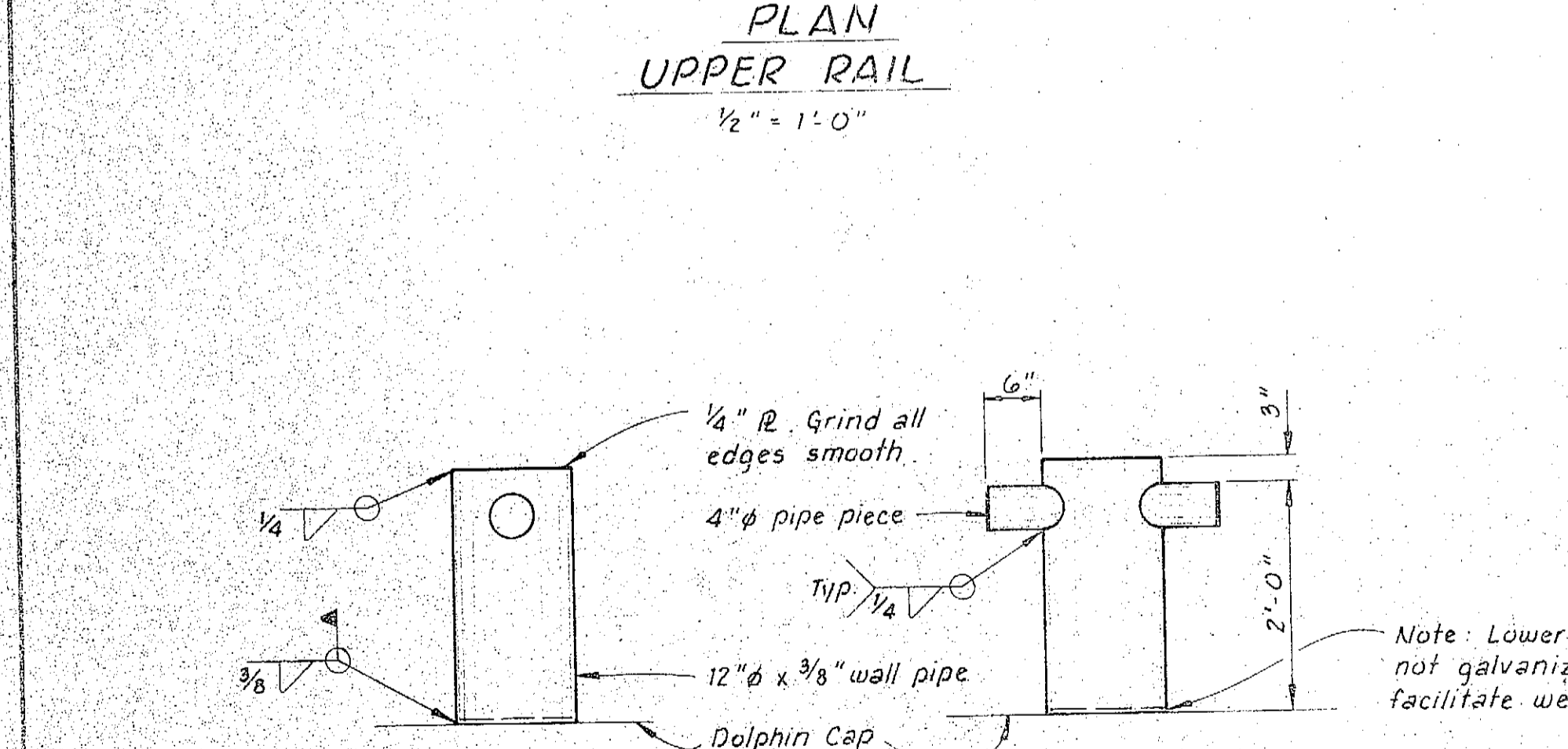
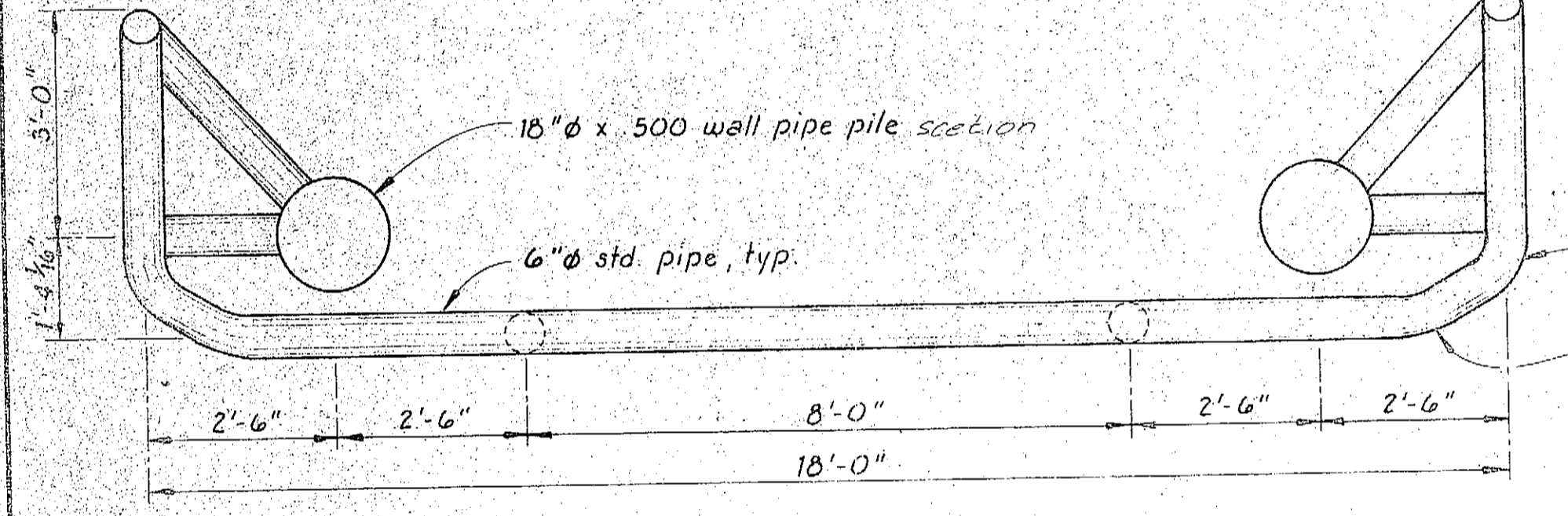
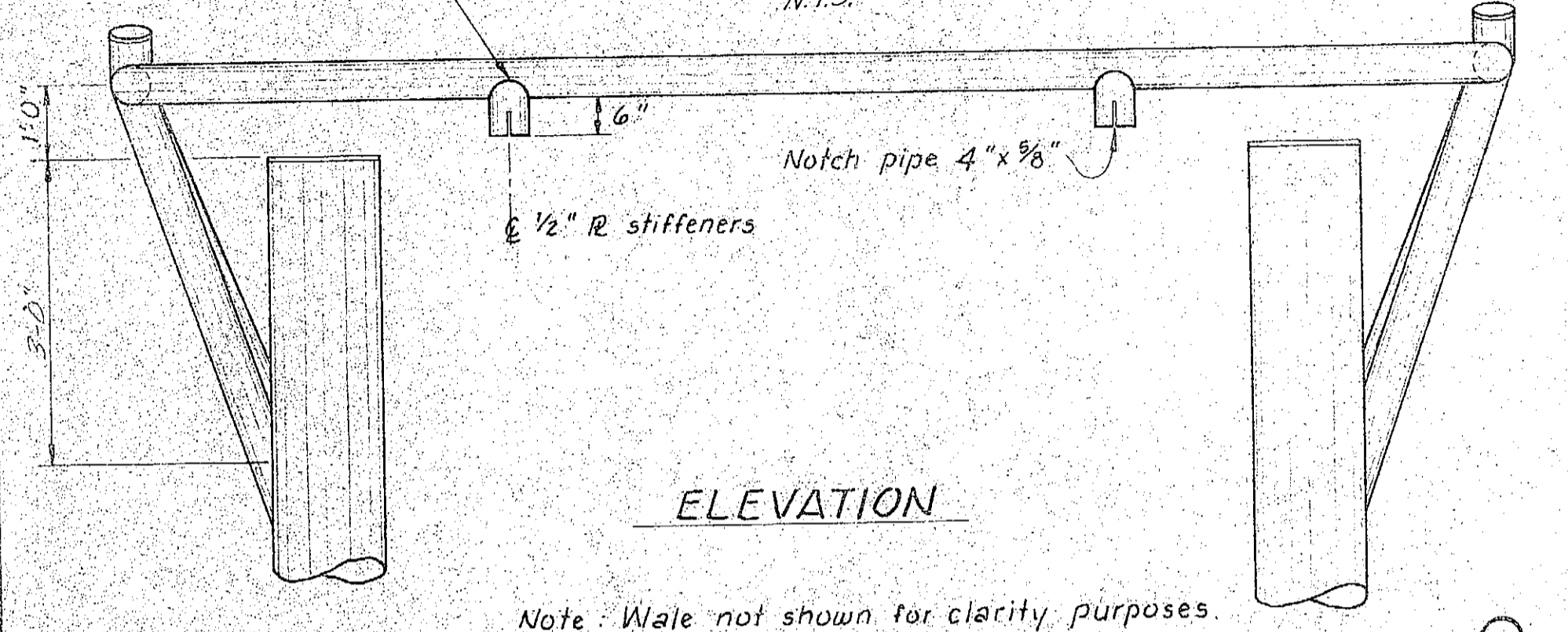
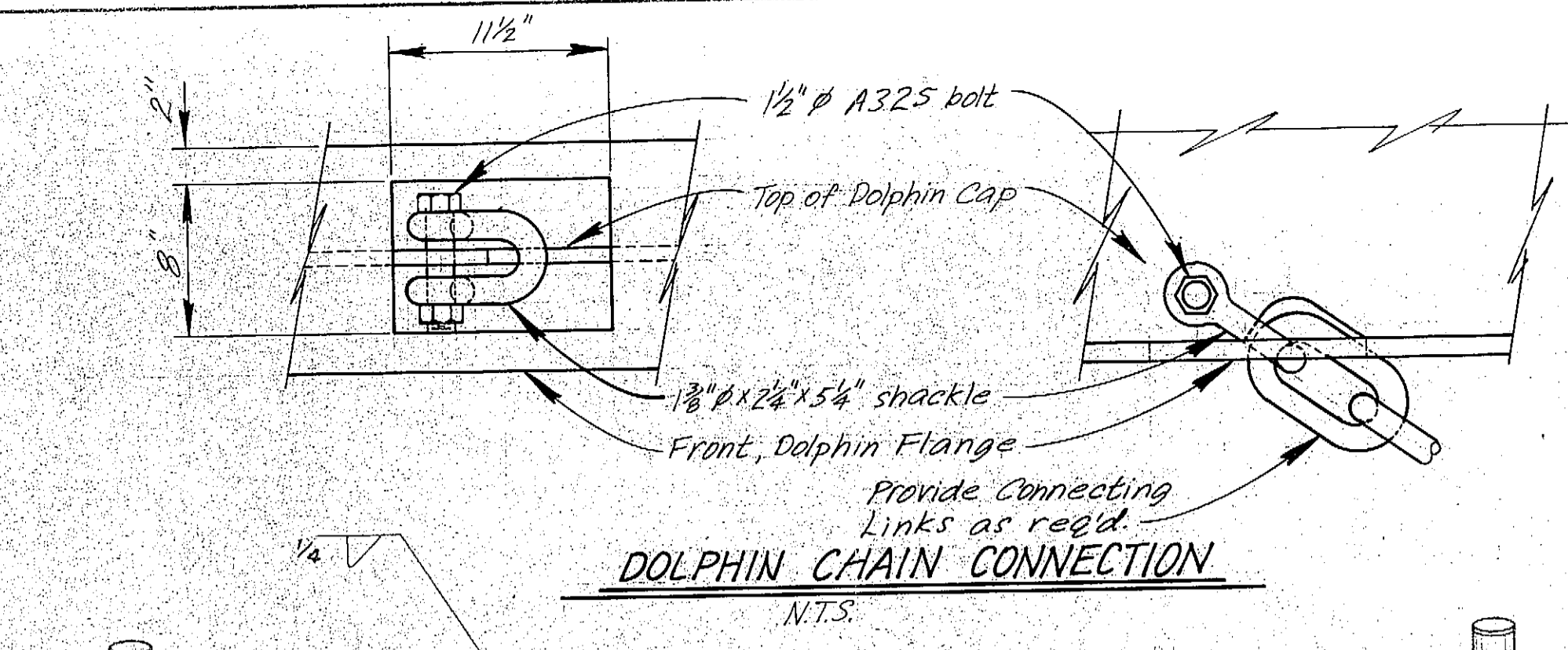
**TYPICAL LOWER WALER, 3 REQ'D**  
( $\frac{1}{2}$ " = 1'-0")



STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
<b>DOLPHIN CAP A&amp;D DETAILS WALER DETAILS</b>		
SCALE: As Noted	SURVEYED:	APPROVED:
DESIGNED: HRM	DRAWN: BS	
CHECKED: S/CAS	DATE: 4-84	
PROJECT NUMBER: A38502	SHEET 7 OF 62	

2/25/85





\* Indicates location of chained openings for ladder access.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

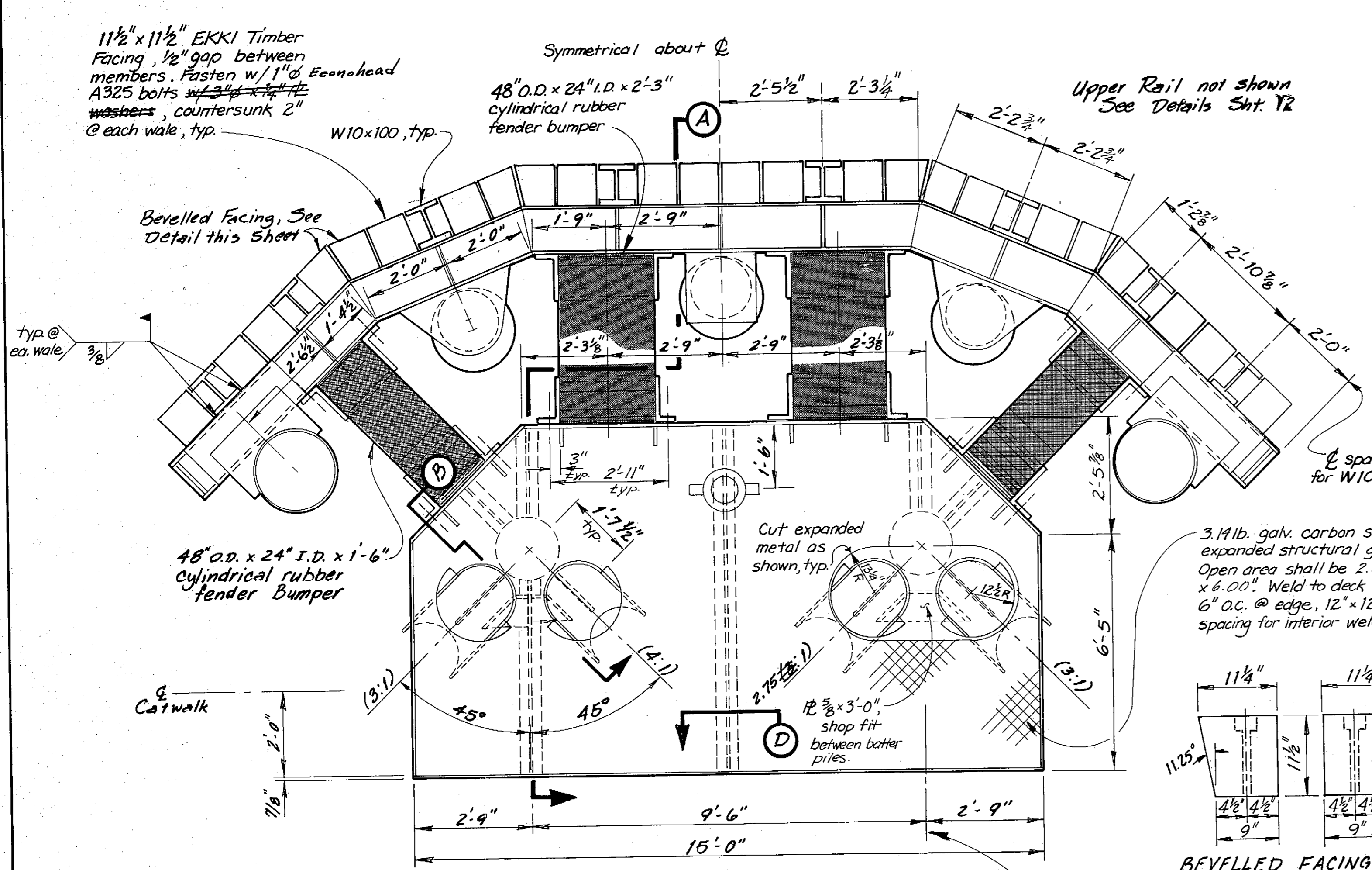
Petersburg Alaska

**DOLPHIN DETAILS**

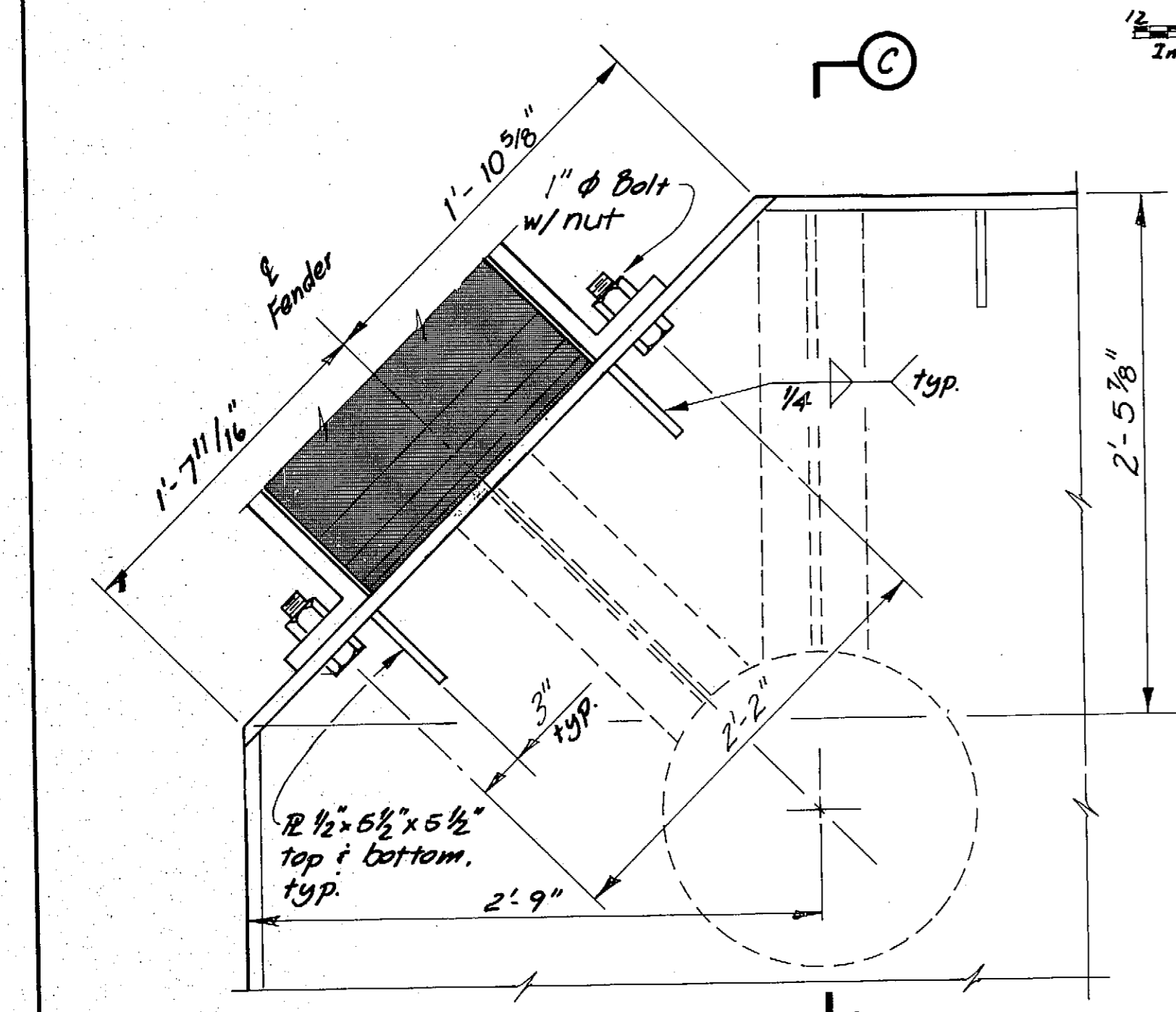
DESIGNED BS CHECKED DRAWN LVB DATE 1/21/81  
PROJECT NUMBER A38502 SHEET 9 OF 61

James A. Lowell  
Professional Engineer  
01559

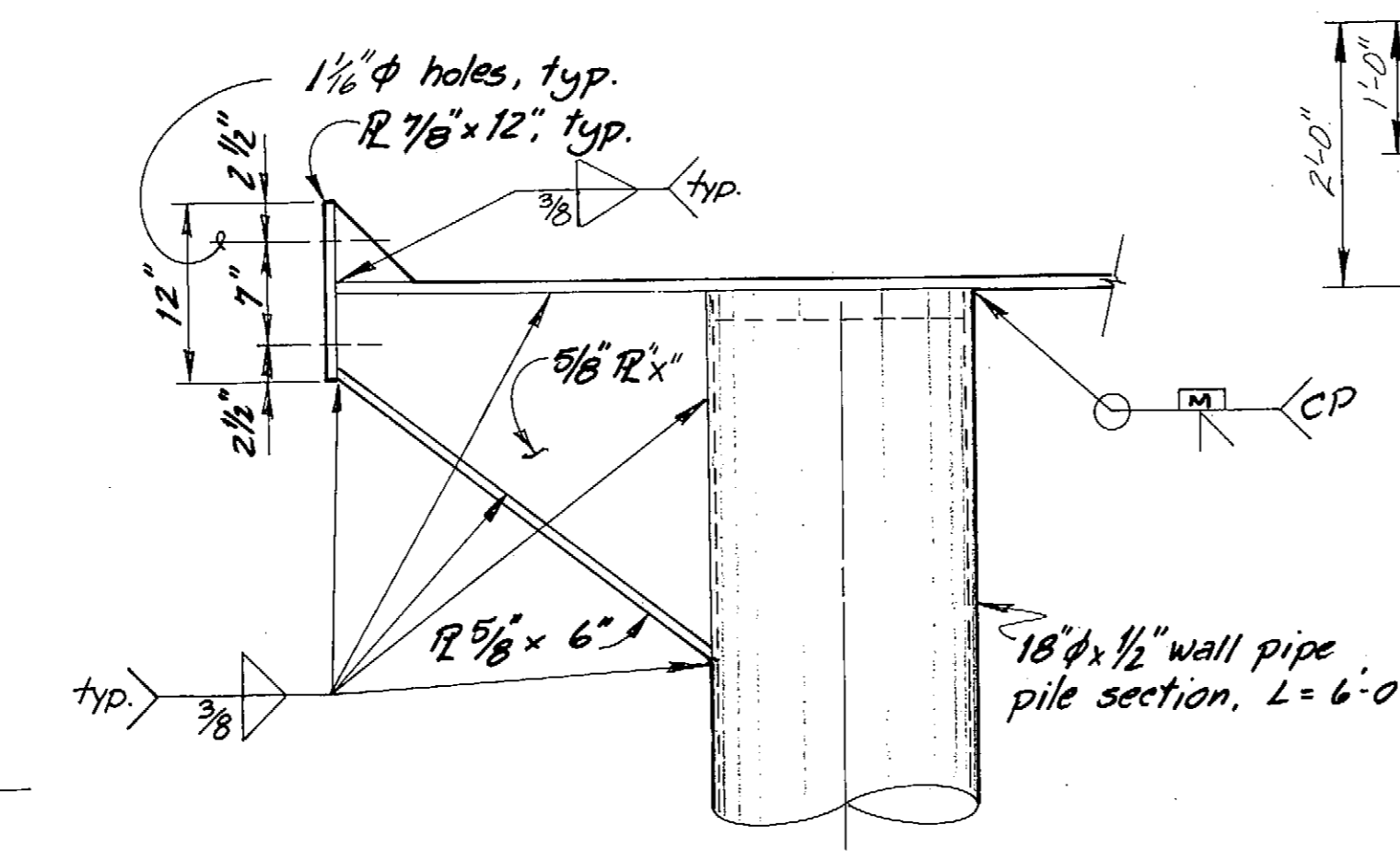
015/85



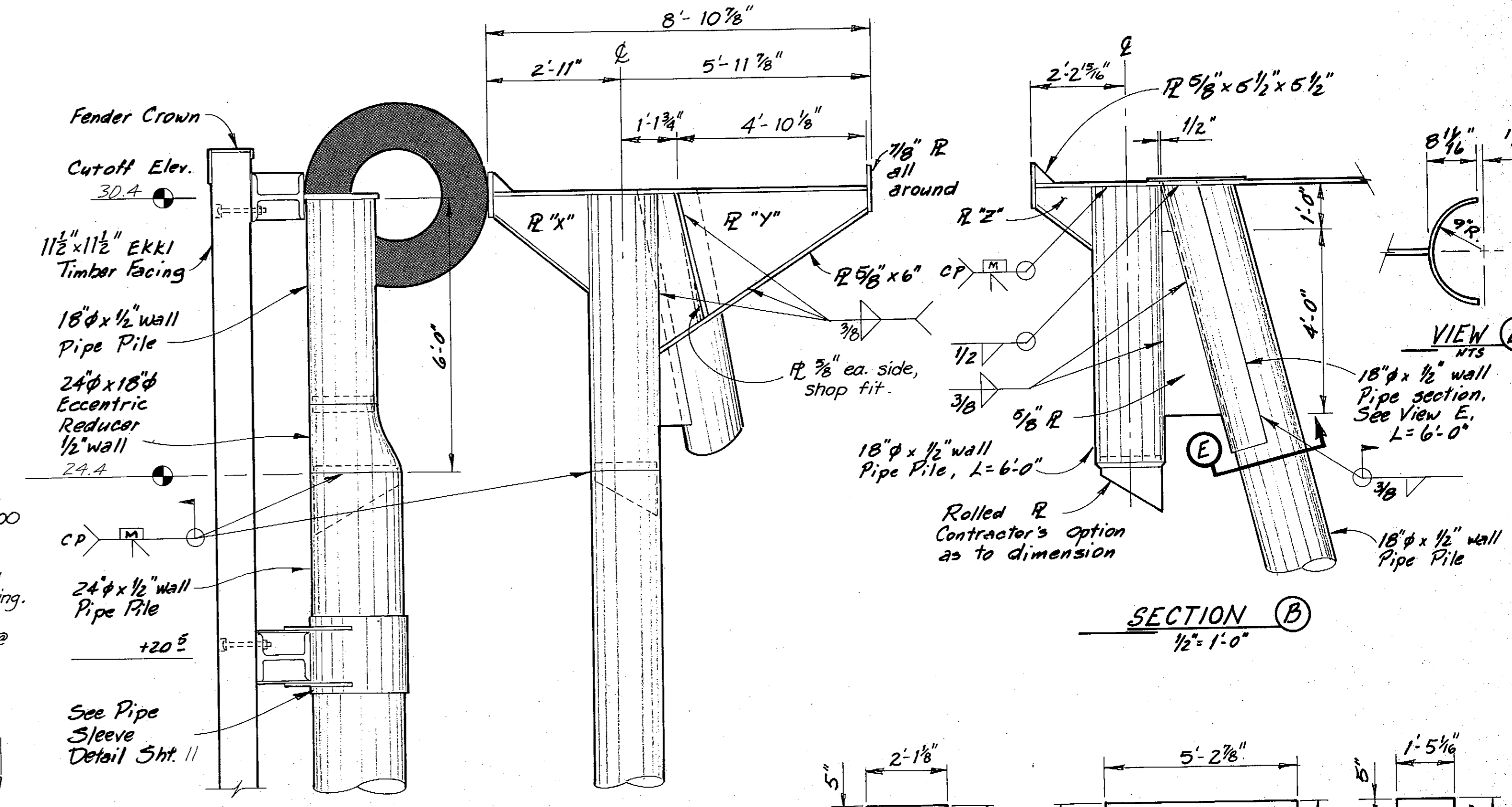
**DOLPHIN CAP & WALE - PLAN**  
1/2" = 1'-0"



**CORNER DETAIL - PLAN**  
1/2" = 1'-0"



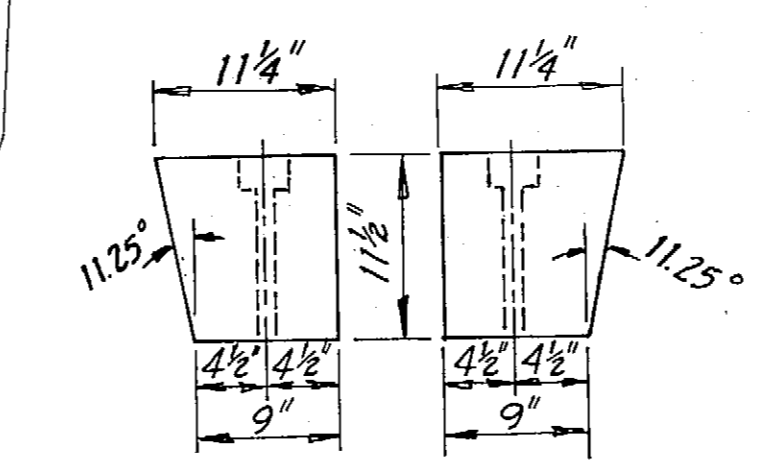
**SECTION C**  
1" = 1'-0"



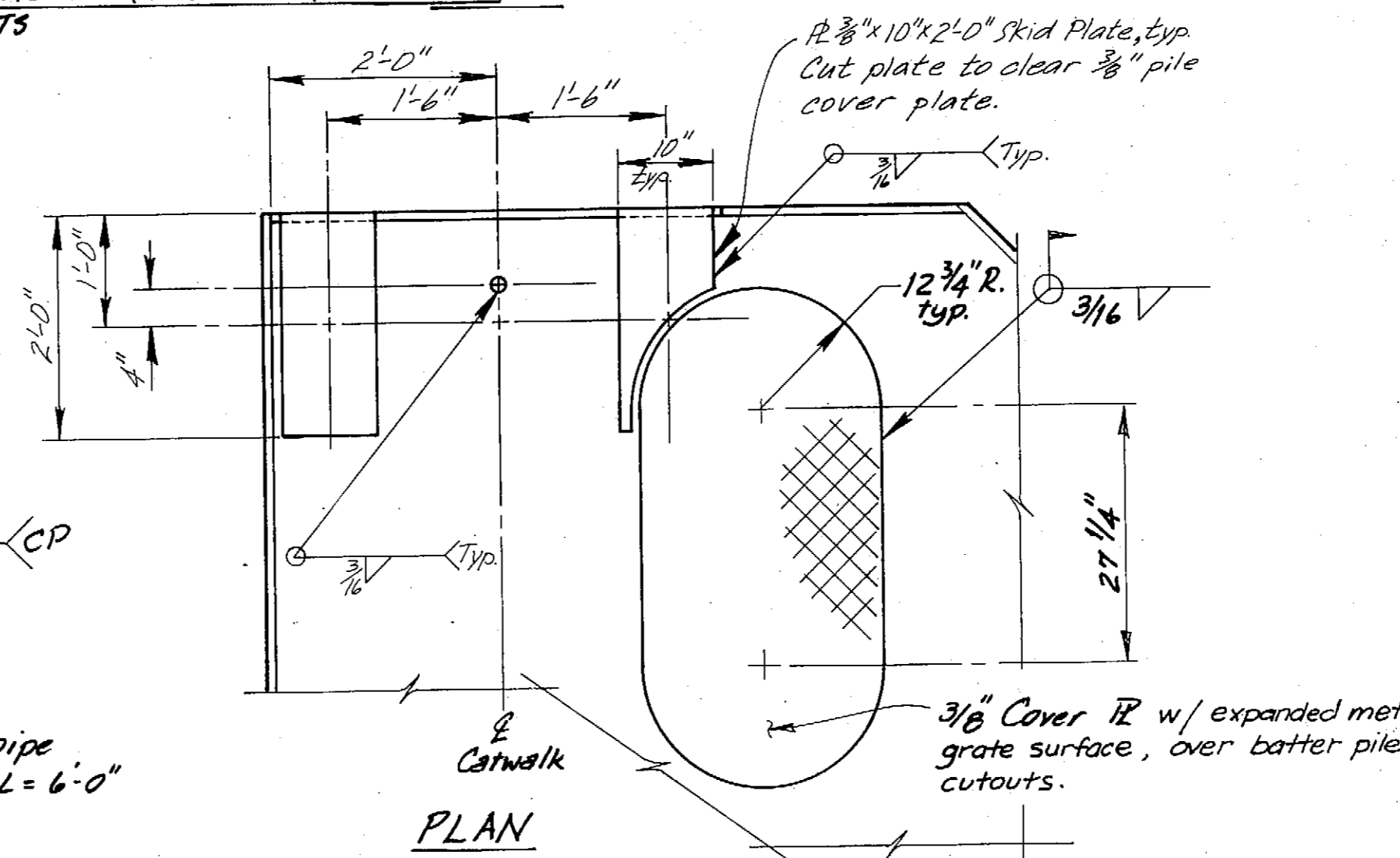
Complete Dolphin Elevation similar to that shown on sht. 7

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

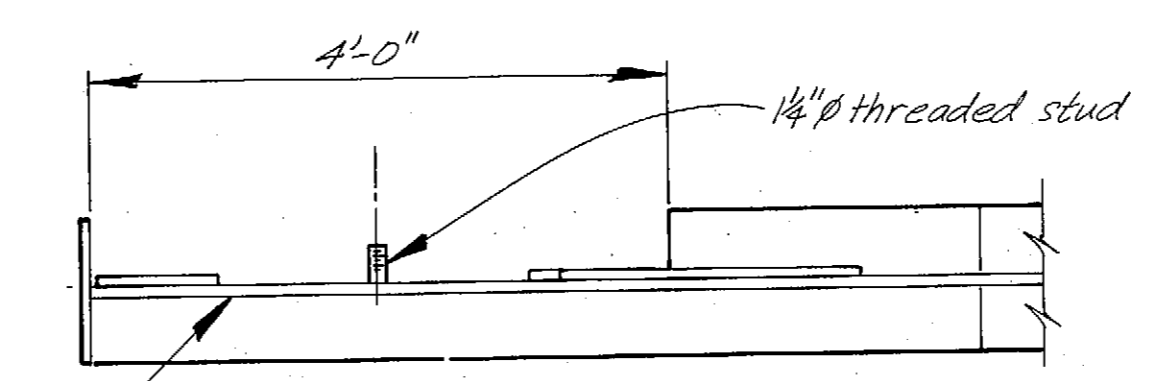
**SECTION B**  
1/2" = 1'-0"



**BEVELLED FACING (Fabricate from 11 1/2" x 11 1/2" NTS)**

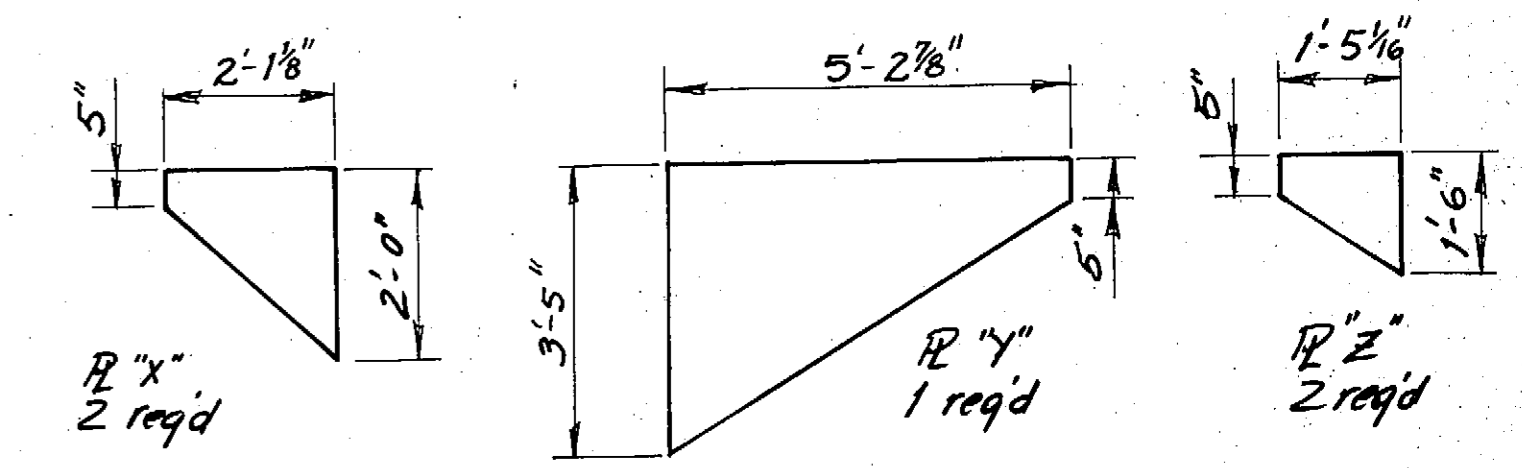


**PLAN**

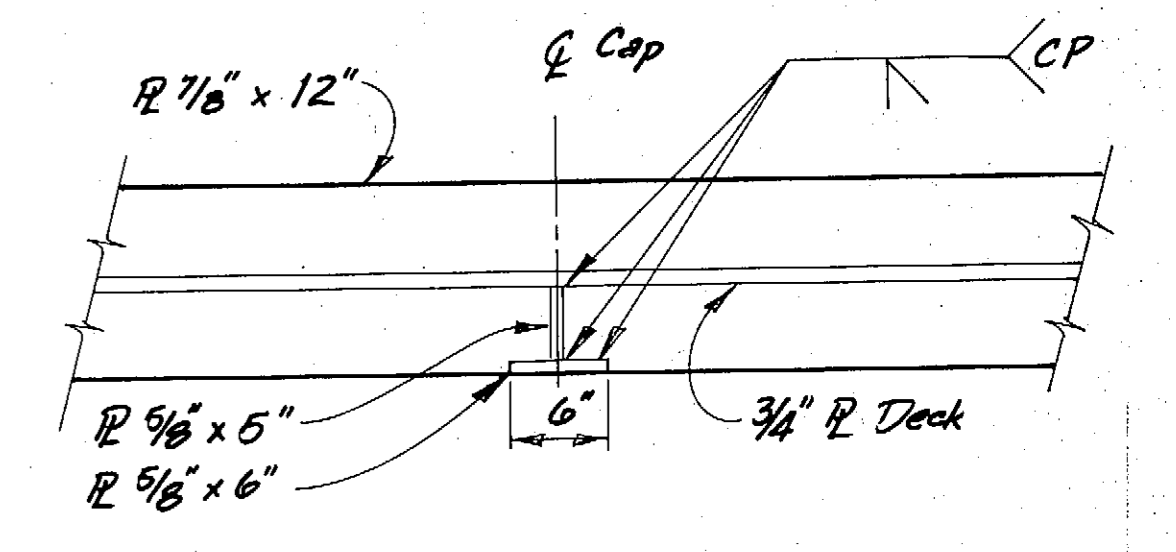


**ELEVATION**

**CATWALK BEARING & COVER PLATE DETAILS**  
3/4" = 1'-0"



**5/8" GUSSET R's**  
1/2" = 1'-0"



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

**AS-BUILT**  
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

**DOLPHIN "E" DETAILS**

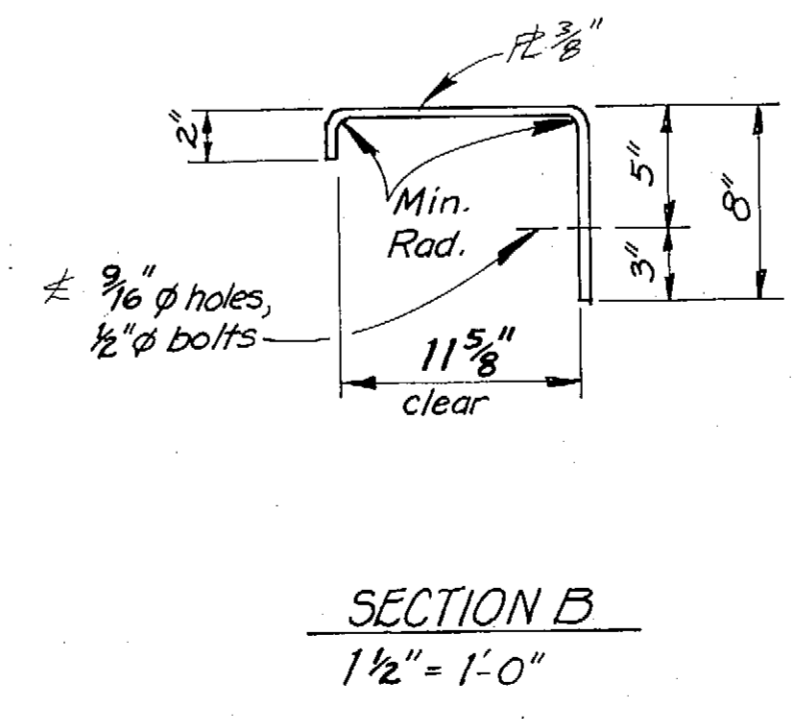
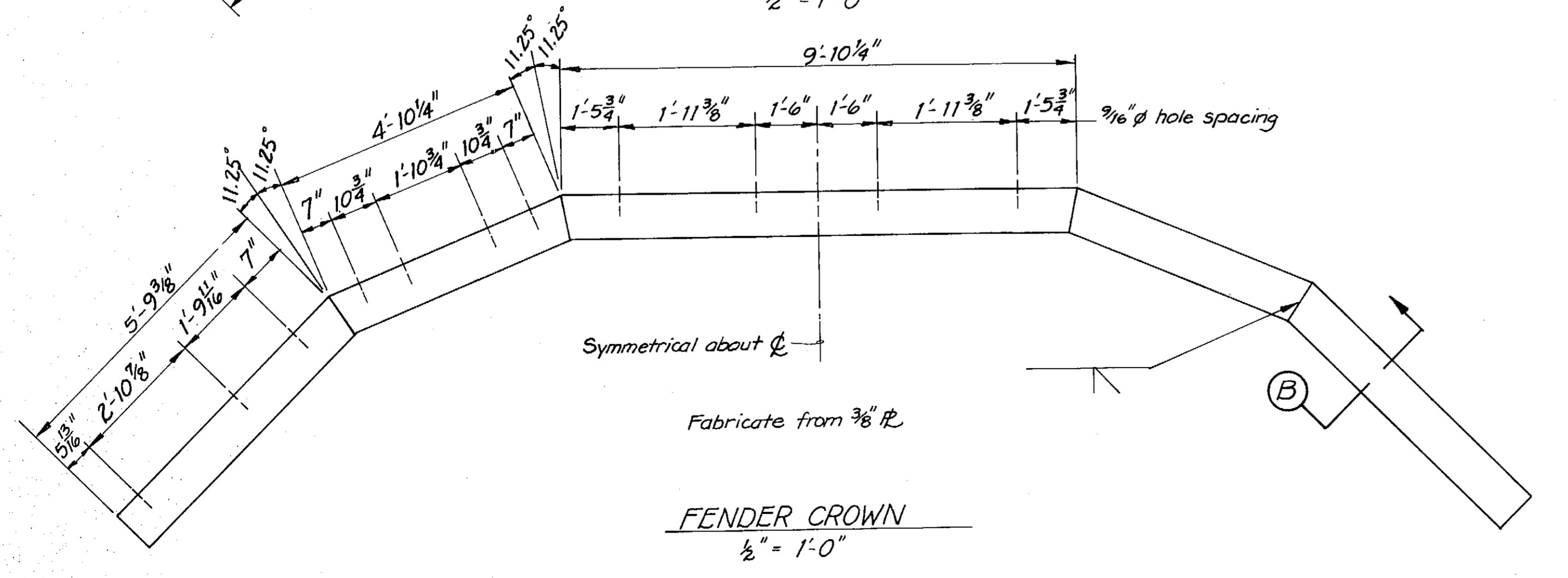
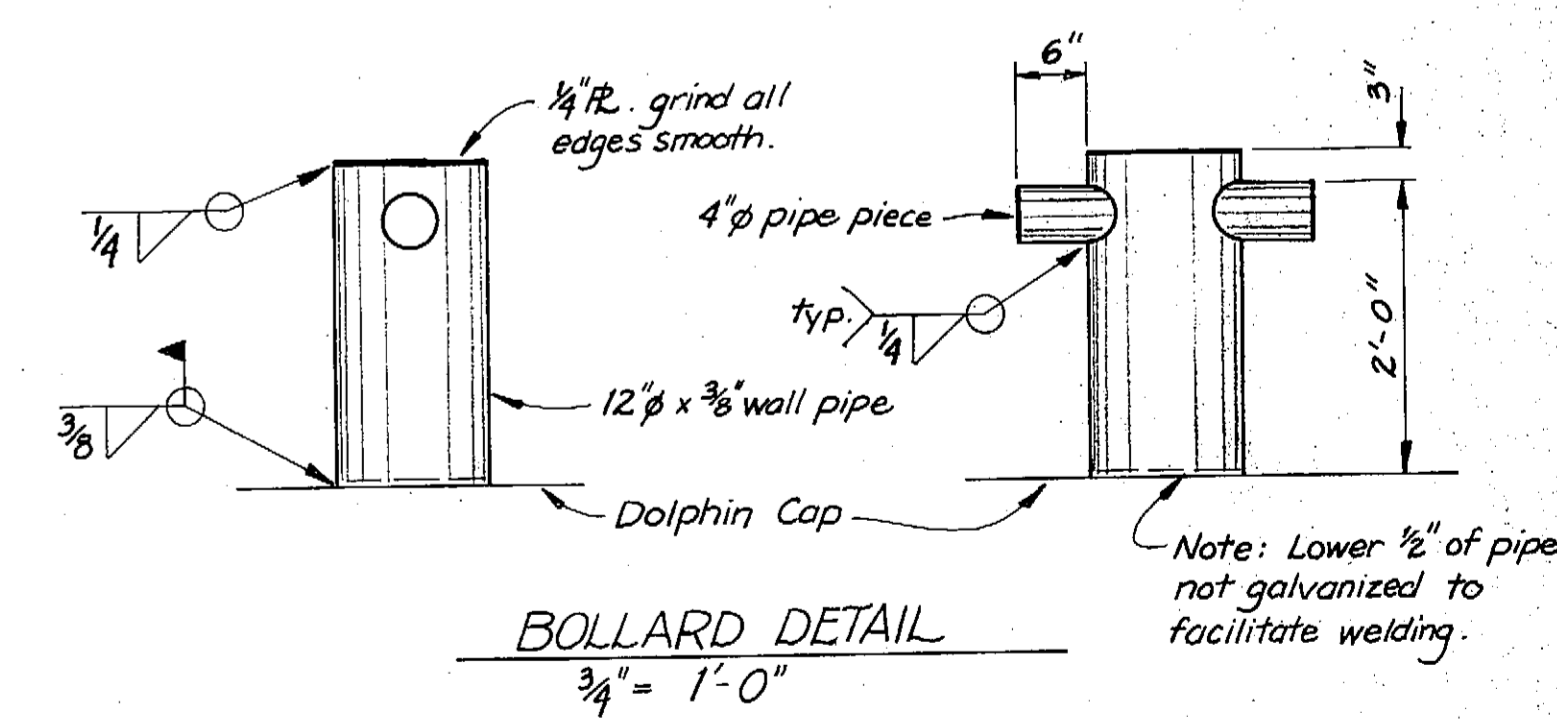
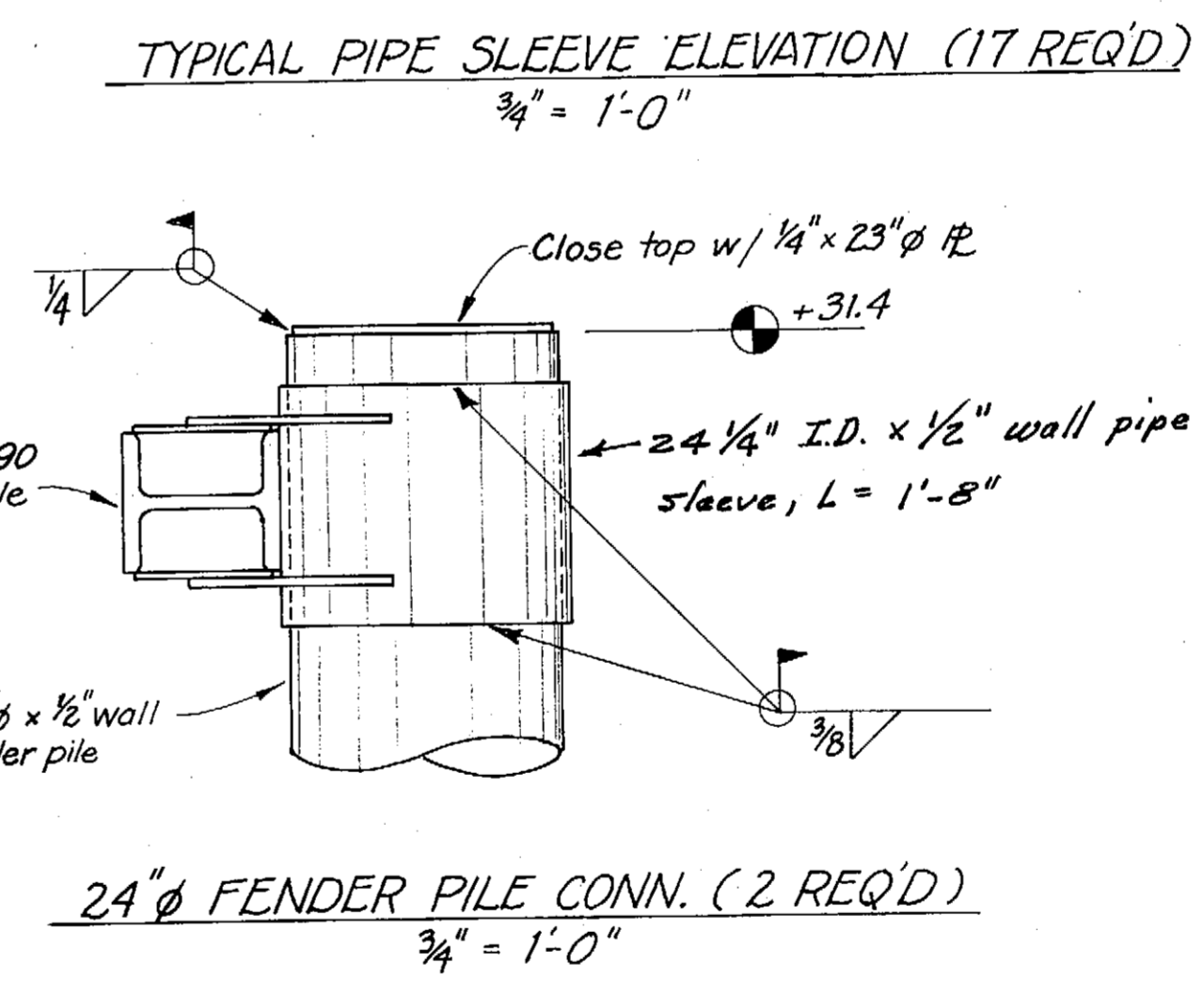
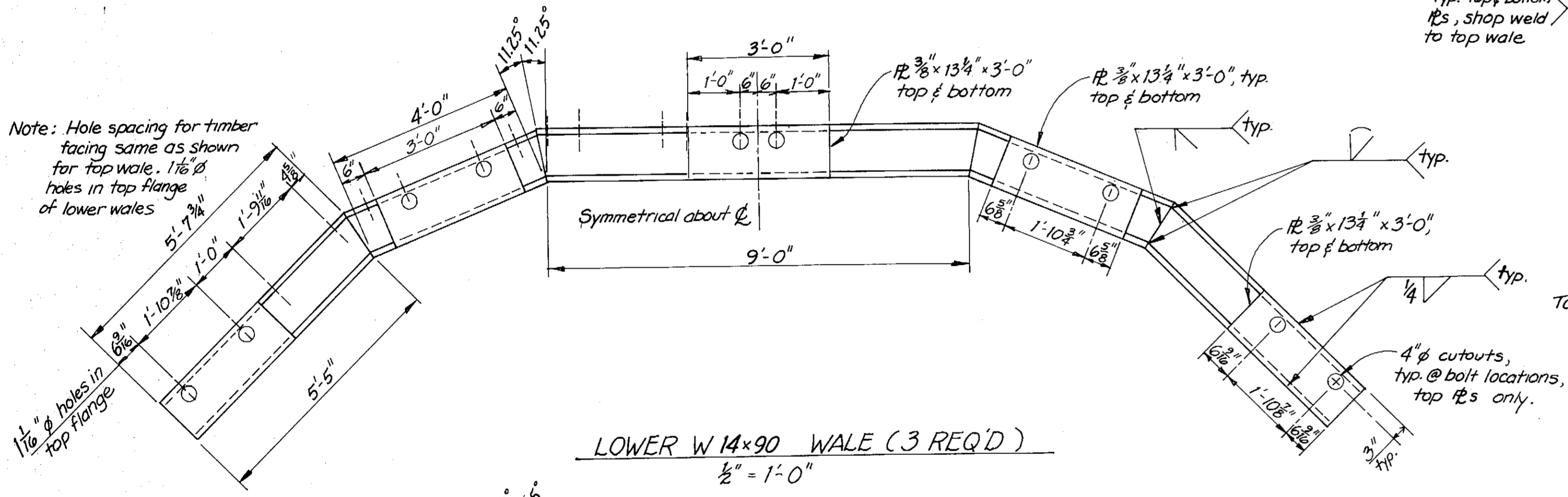
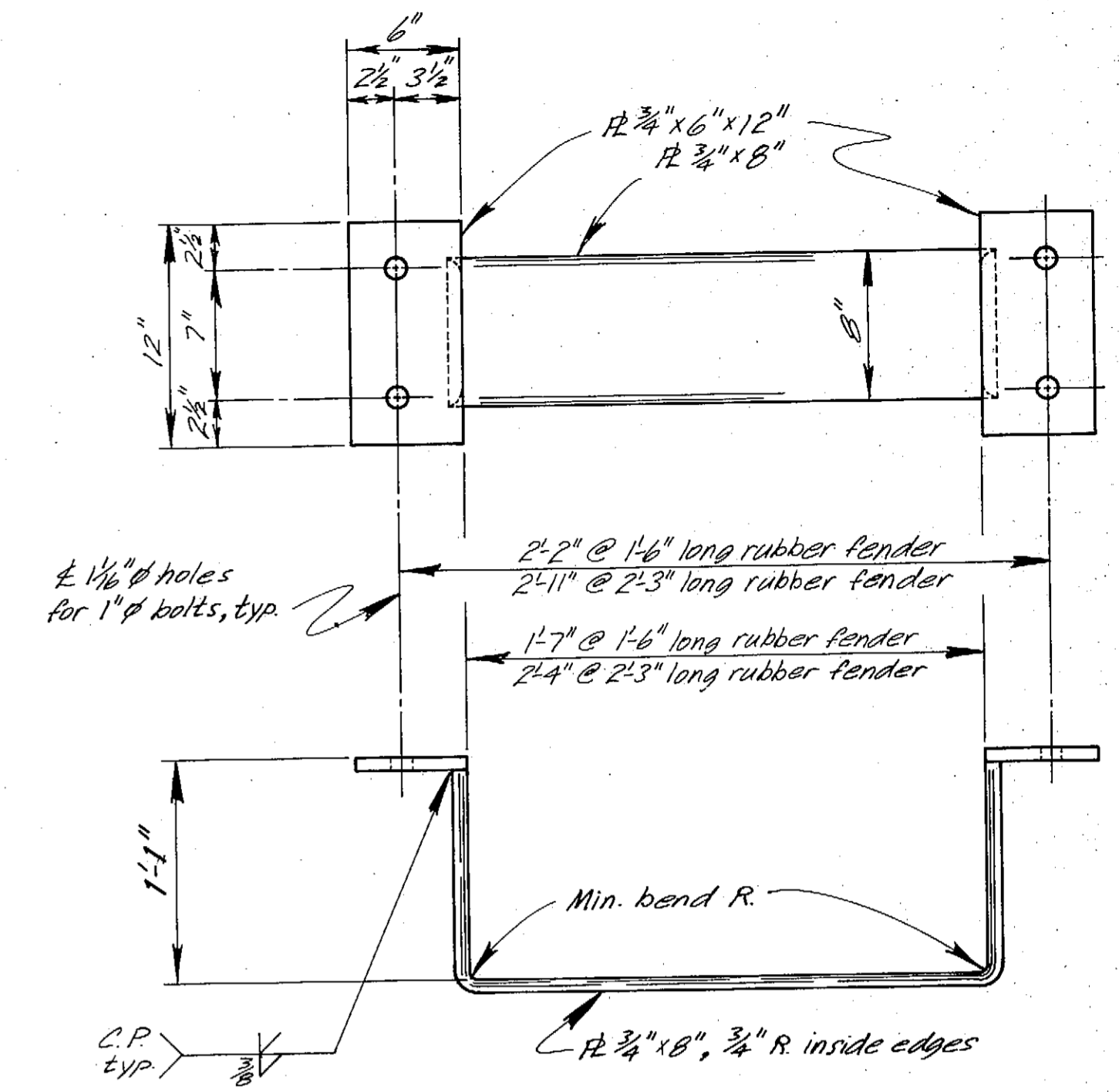
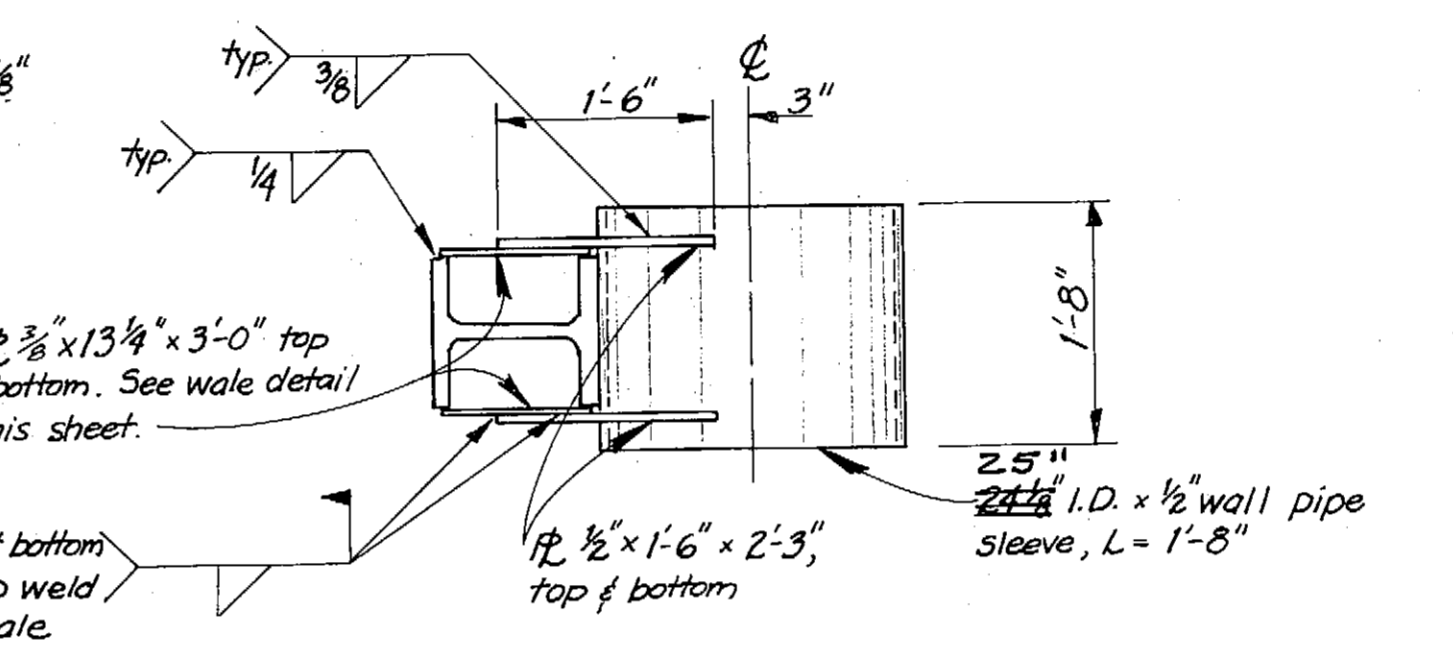
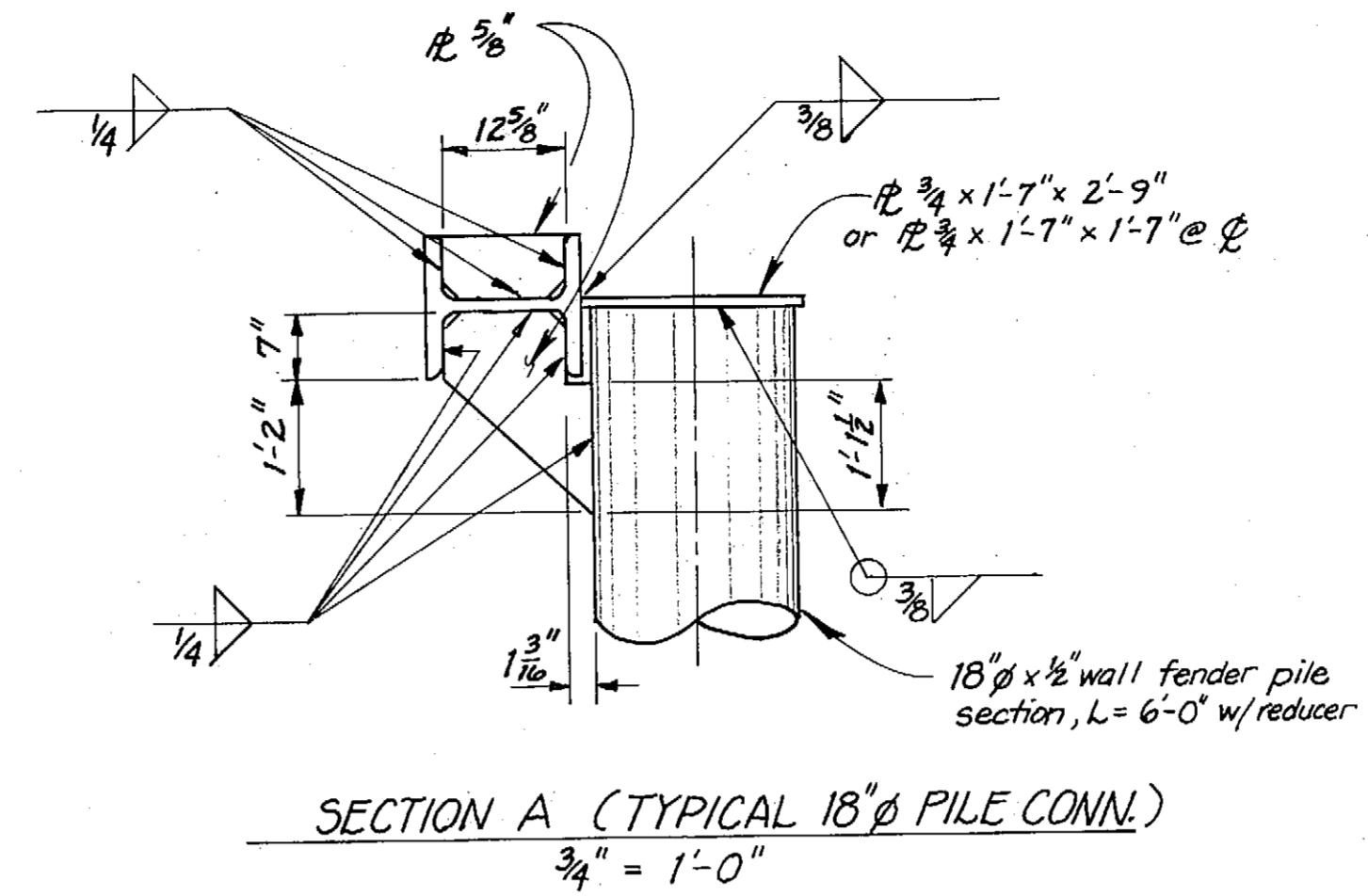
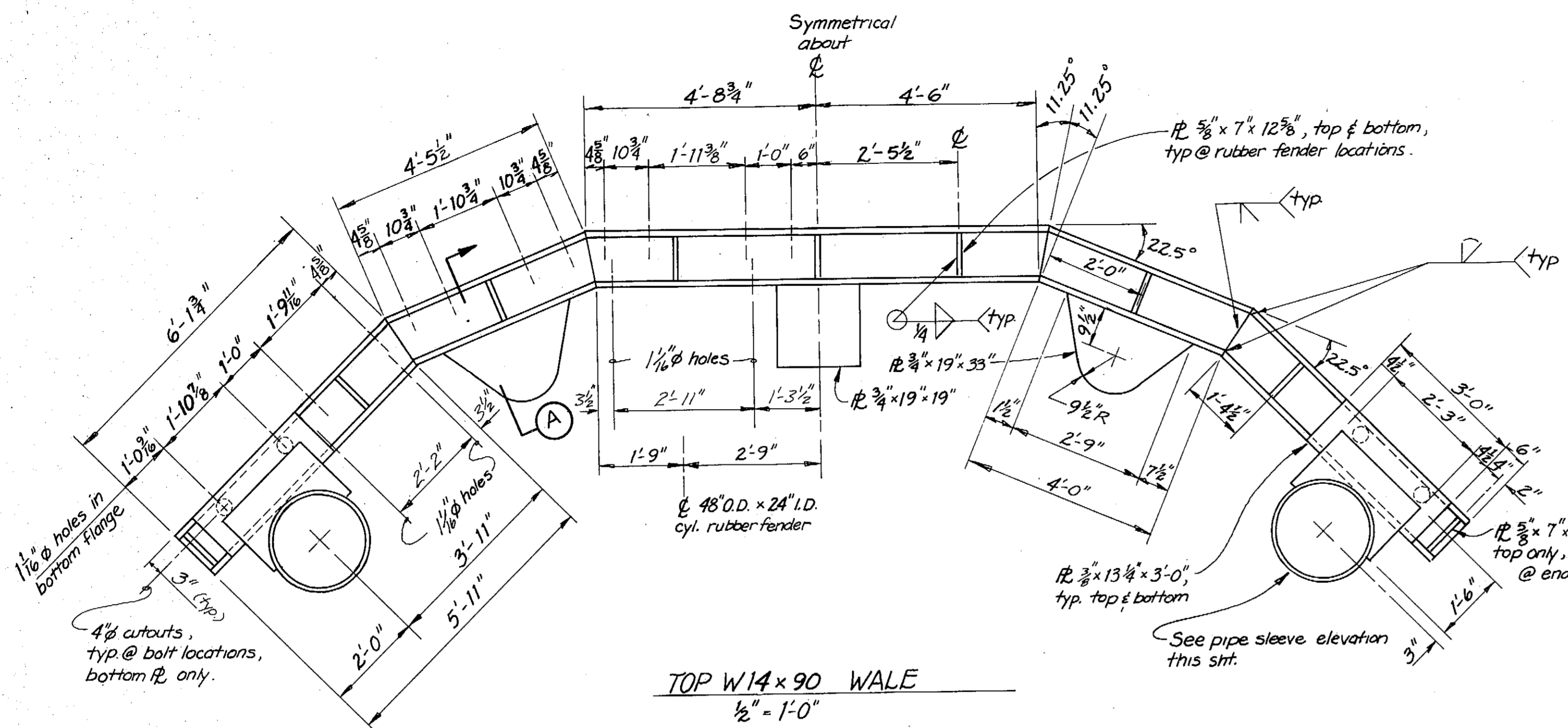
STAMP  
James A. Lowell  
#CE-5597  
REGISTERED PROFESSIONAL ENGINEER

SCALE: As Noted  
DESIGNED: BS  
CHECKED: [ ]  
PROJECT NUMBER: A38502

SURVEYED: [ ]  
DRAWN: DD  
DATE: [ ]

APPROVED: [ ]  
SHEET 10 OF 62

2/25/85



**AS-BUILT**

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

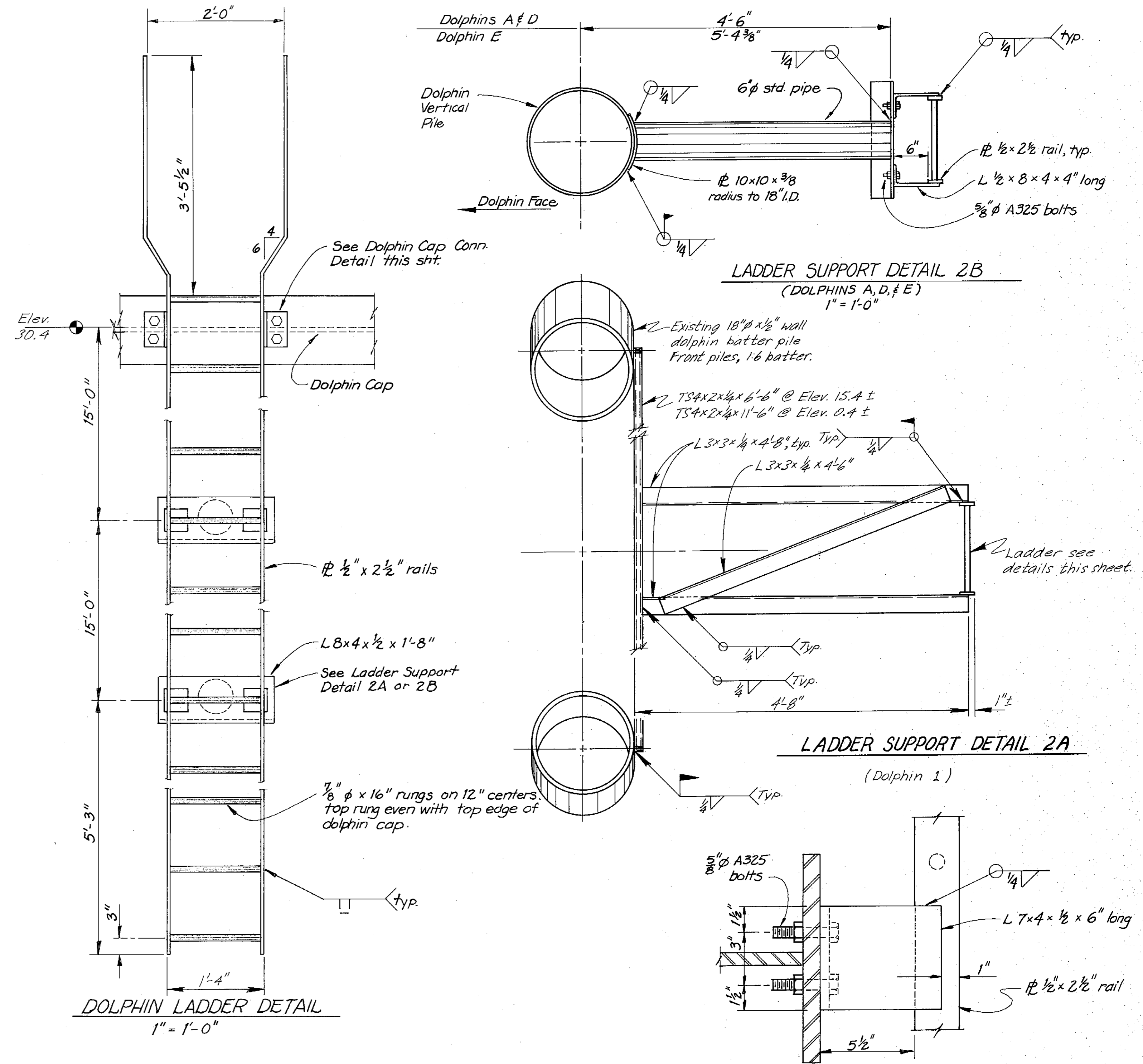
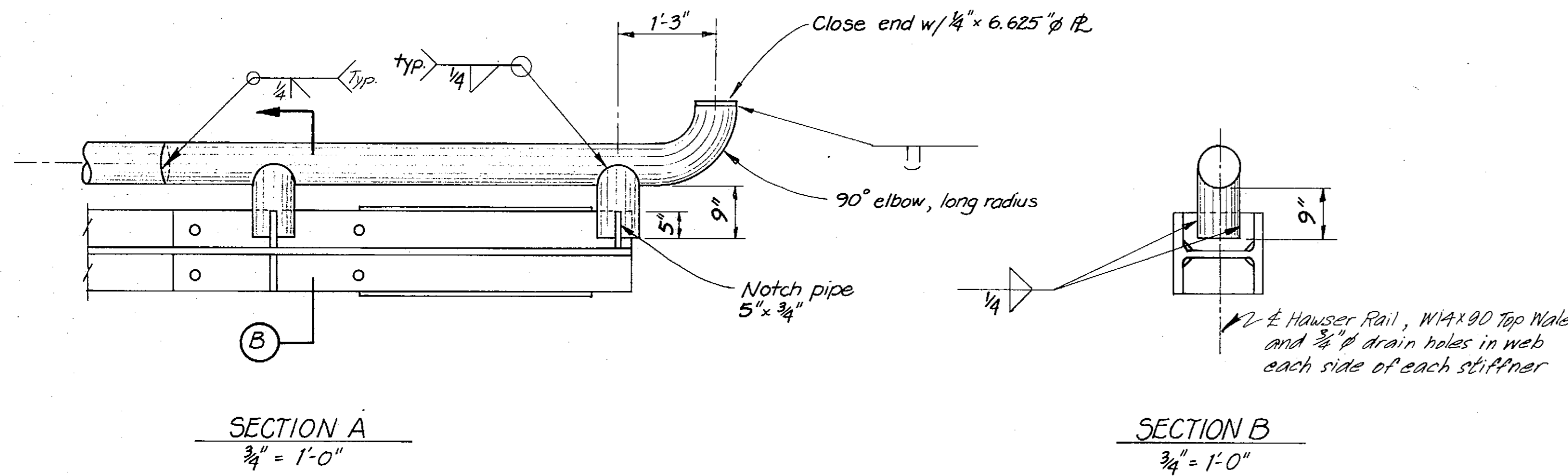
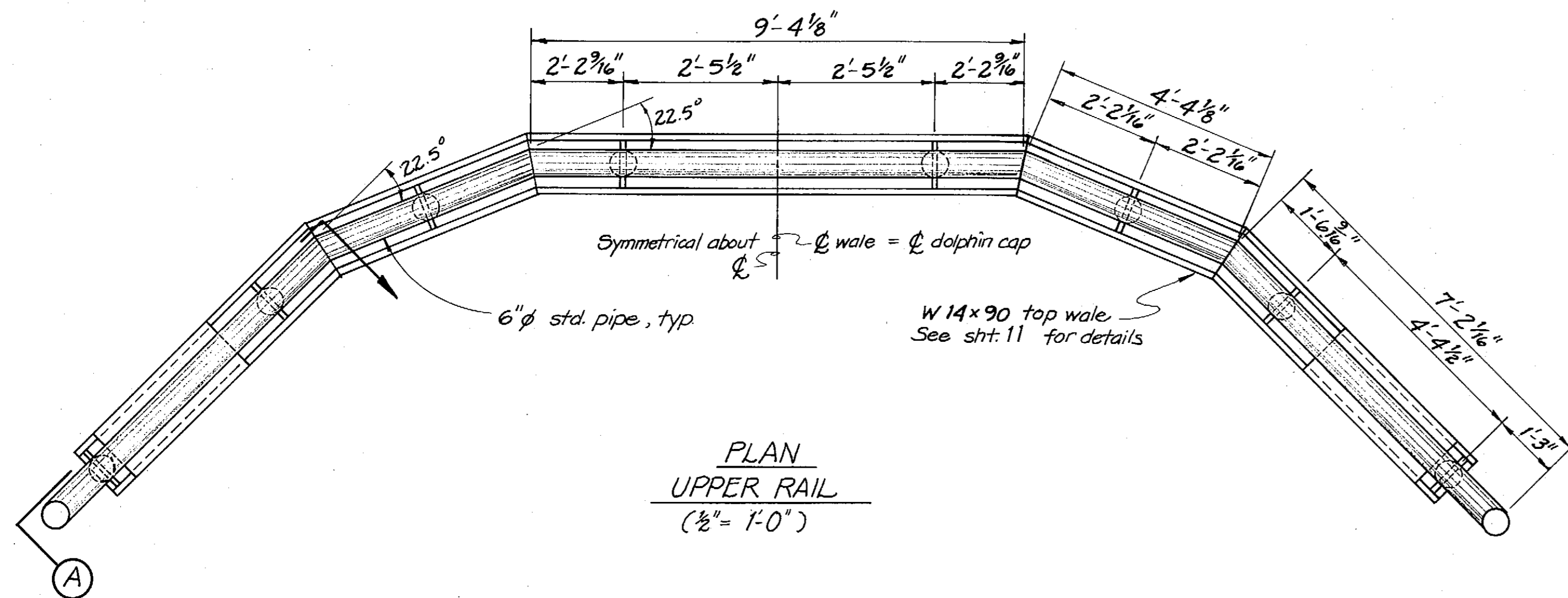
Petersburg Alaska

**DOLPHIN & WALER DETAILS**

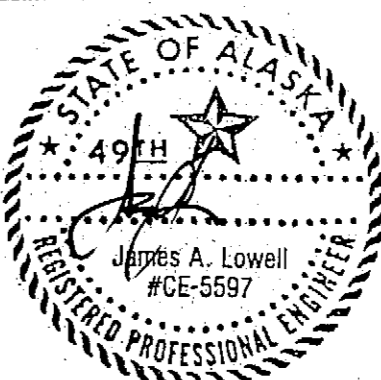
James A. Lowell  
#CE-5597  
REGISTERED PROFESSIONAL ENGINEER

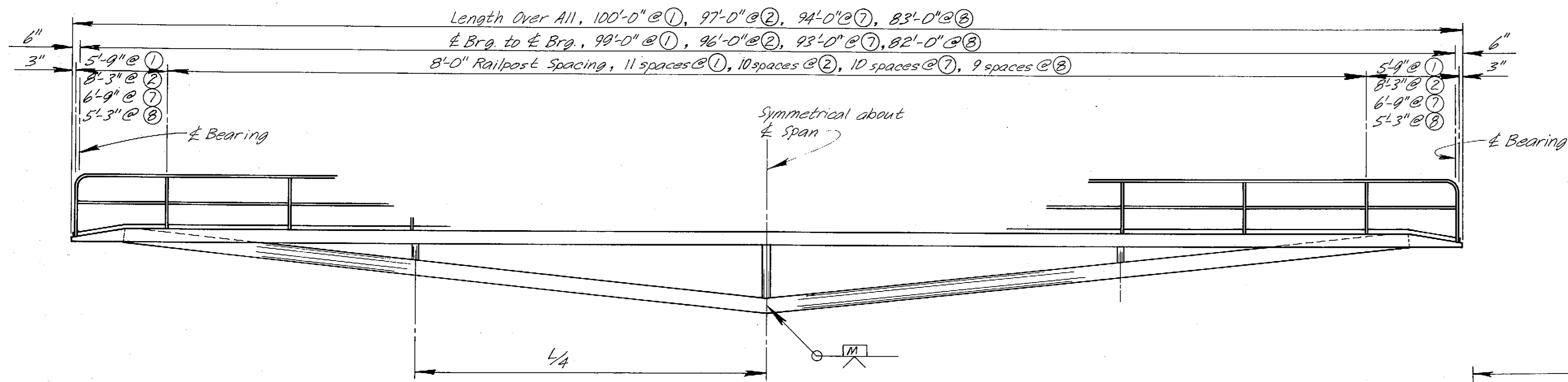
SCALE DESIGNED: <b>B5</b>	SURVEYED: <b>B5</b>	APPROVED:
CHECKED:	DATE:	
PROJECT NUMBER: <b>A.38502</b>	SHEET <b>11</b> OF <b>62</b>	

2/25/85

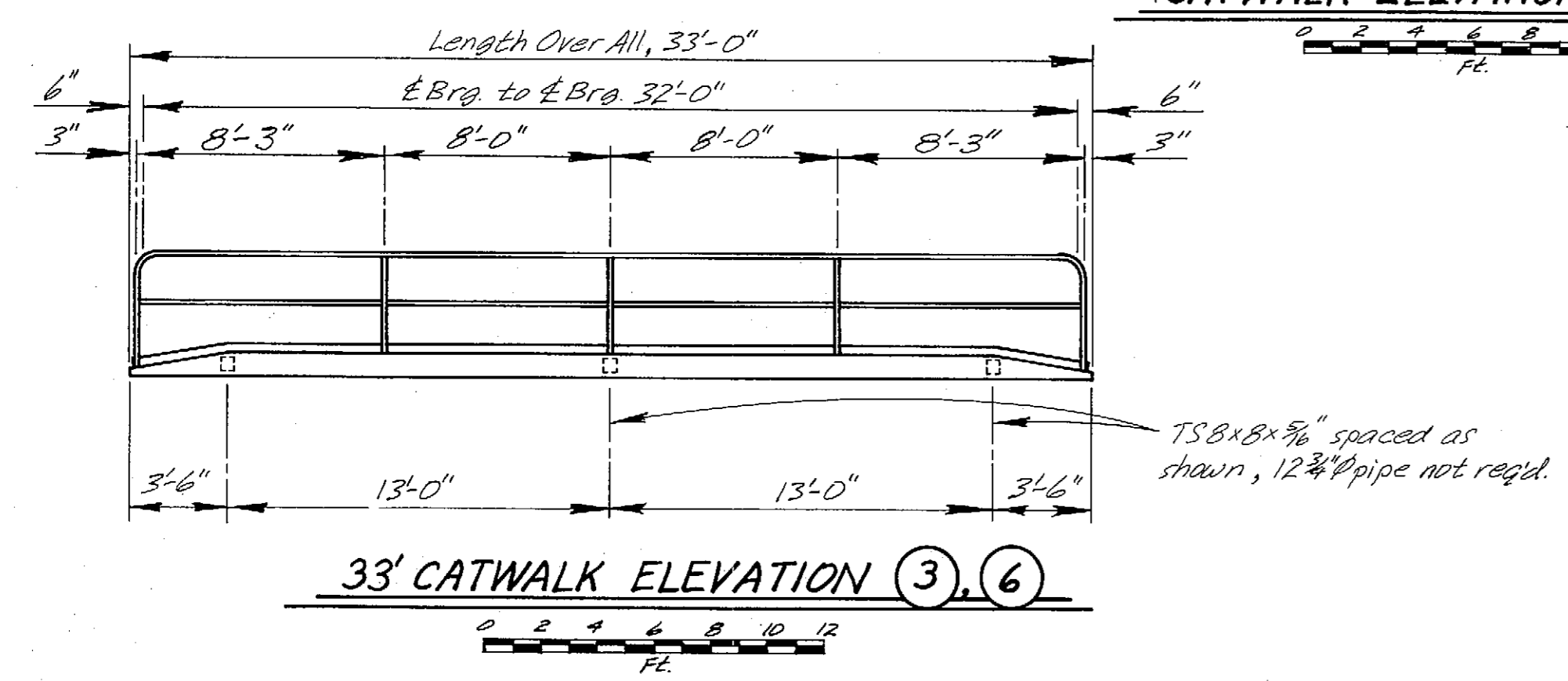


AS-BUILT

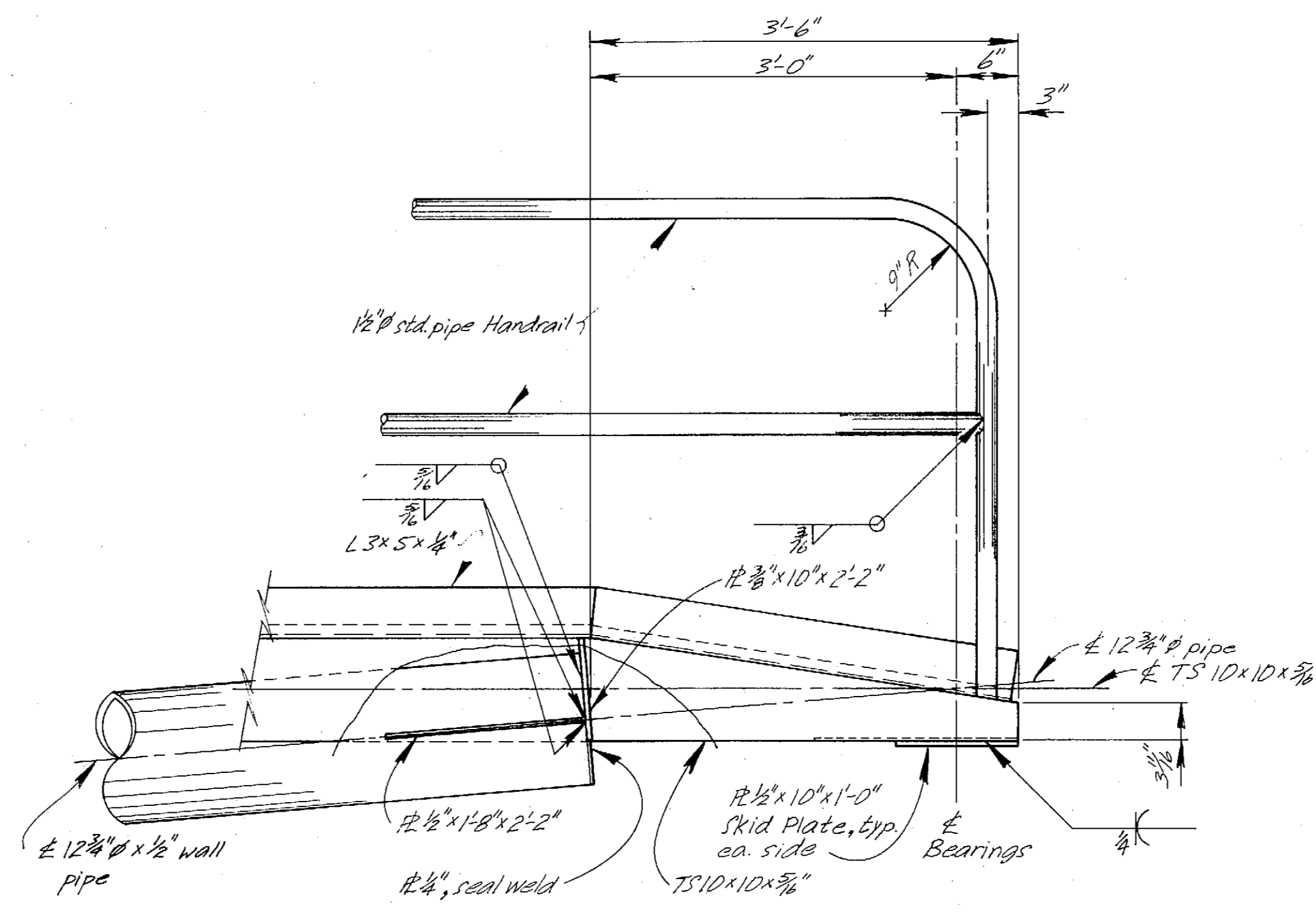
STAMP  2/25/05	DO NOT SCALE THIS DRAWING -- USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
	Petersburg, Alaska		Alaska
DOLPHIN LADDER DETAILS DOLPHIN E TOP RAIL			
SCALE: B5 DESIGNED: B5 CHECKED:	SURVEYED: B5 DRAWN: B5 DATE:	APPROVED:	
PROJECT NUMBER: A 38502		SHEET 12 OF 62	



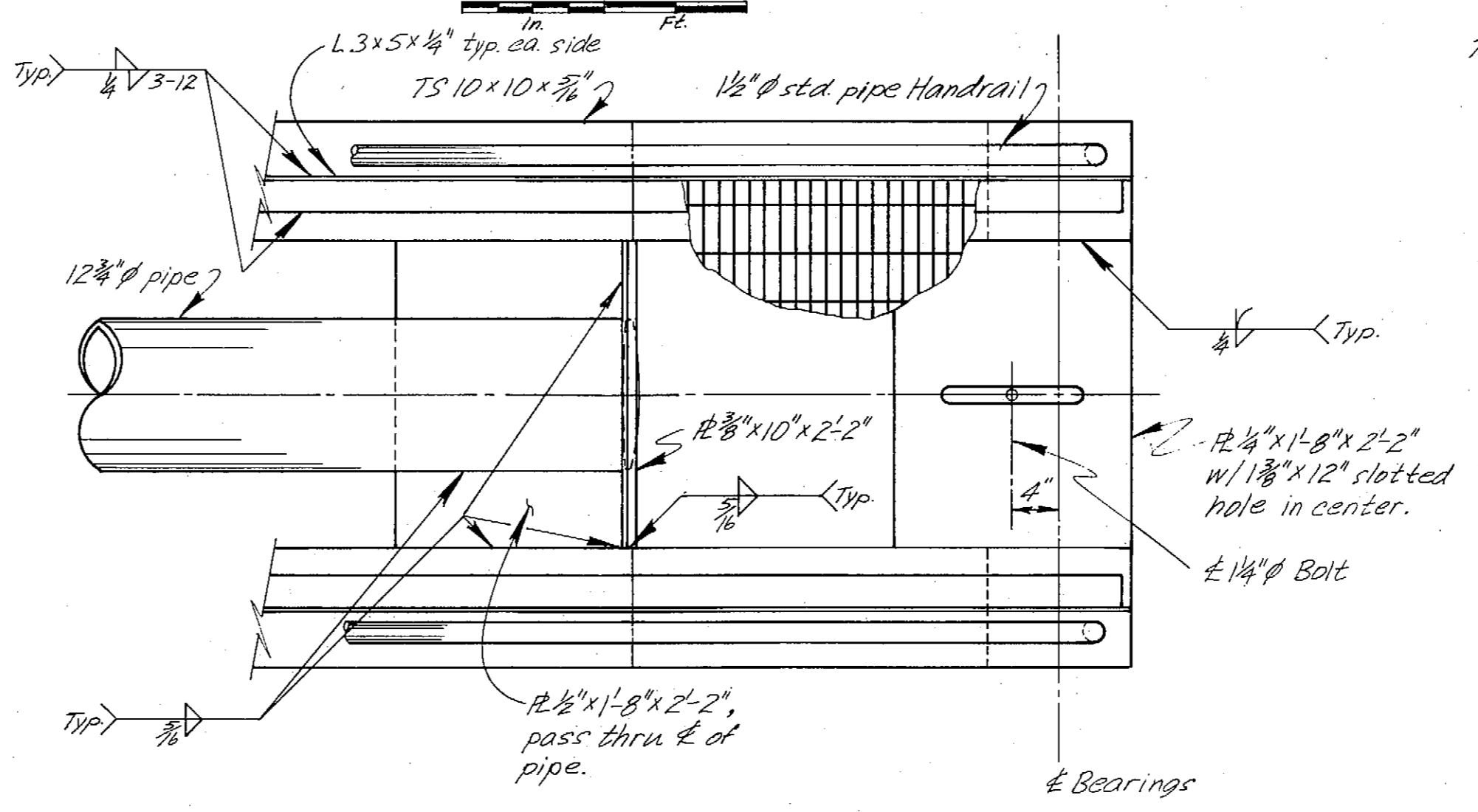
**CATWALK ELEVATION ①, ②, ⑦, ⑧**



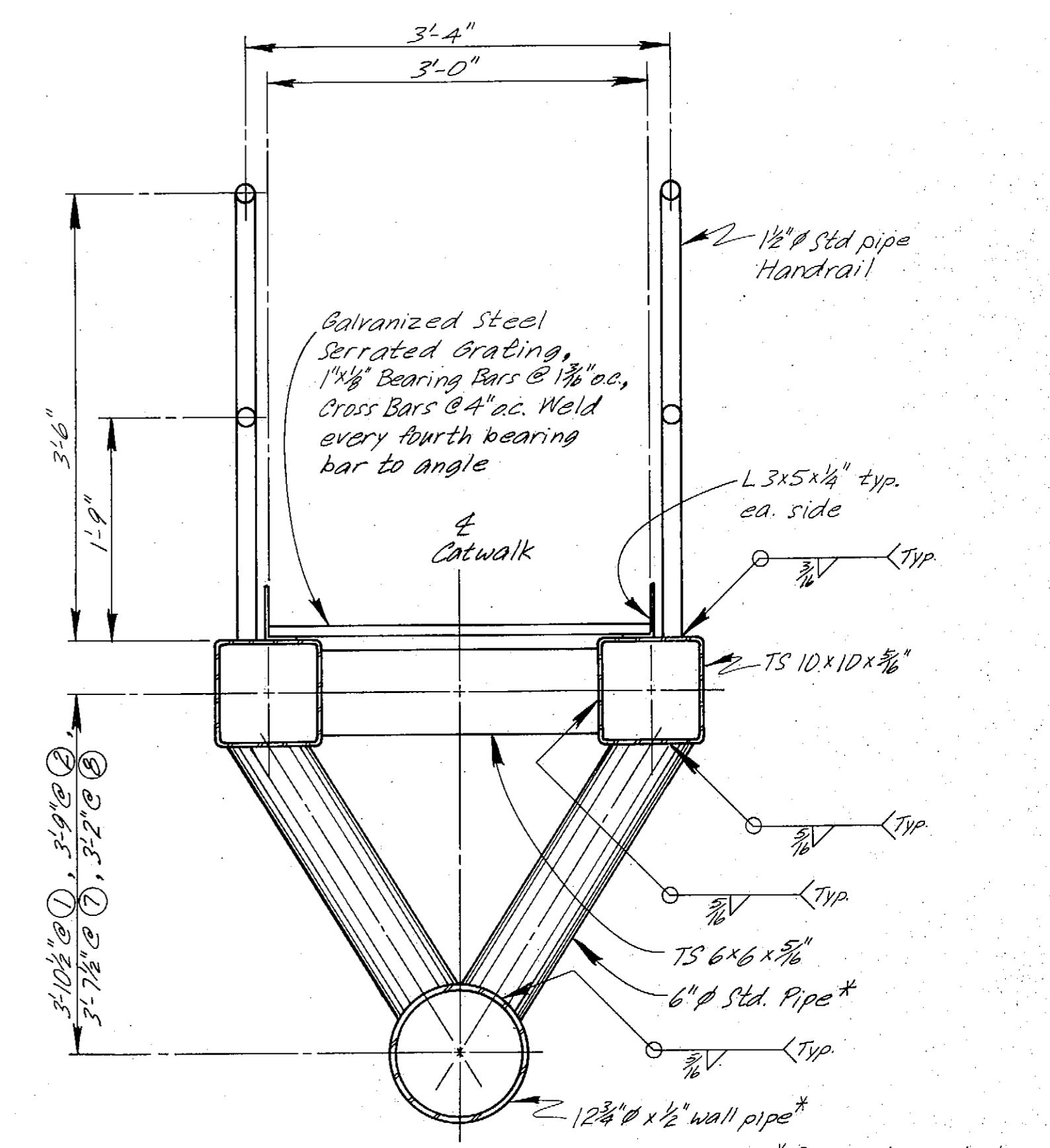
**33' CATWALK ELEVATION ③, ⑥**



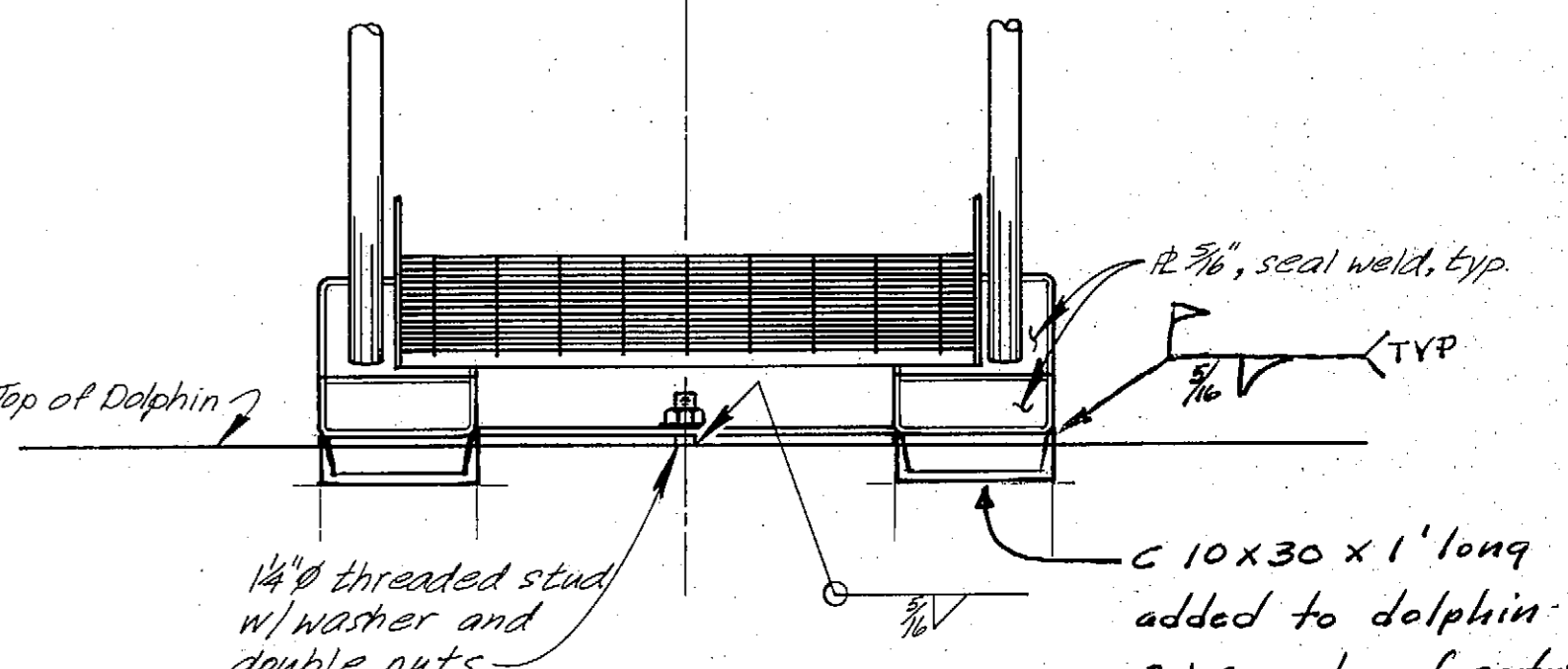
**END ELEVATION**



**END PLAN**



**TYPICAL SECTION**

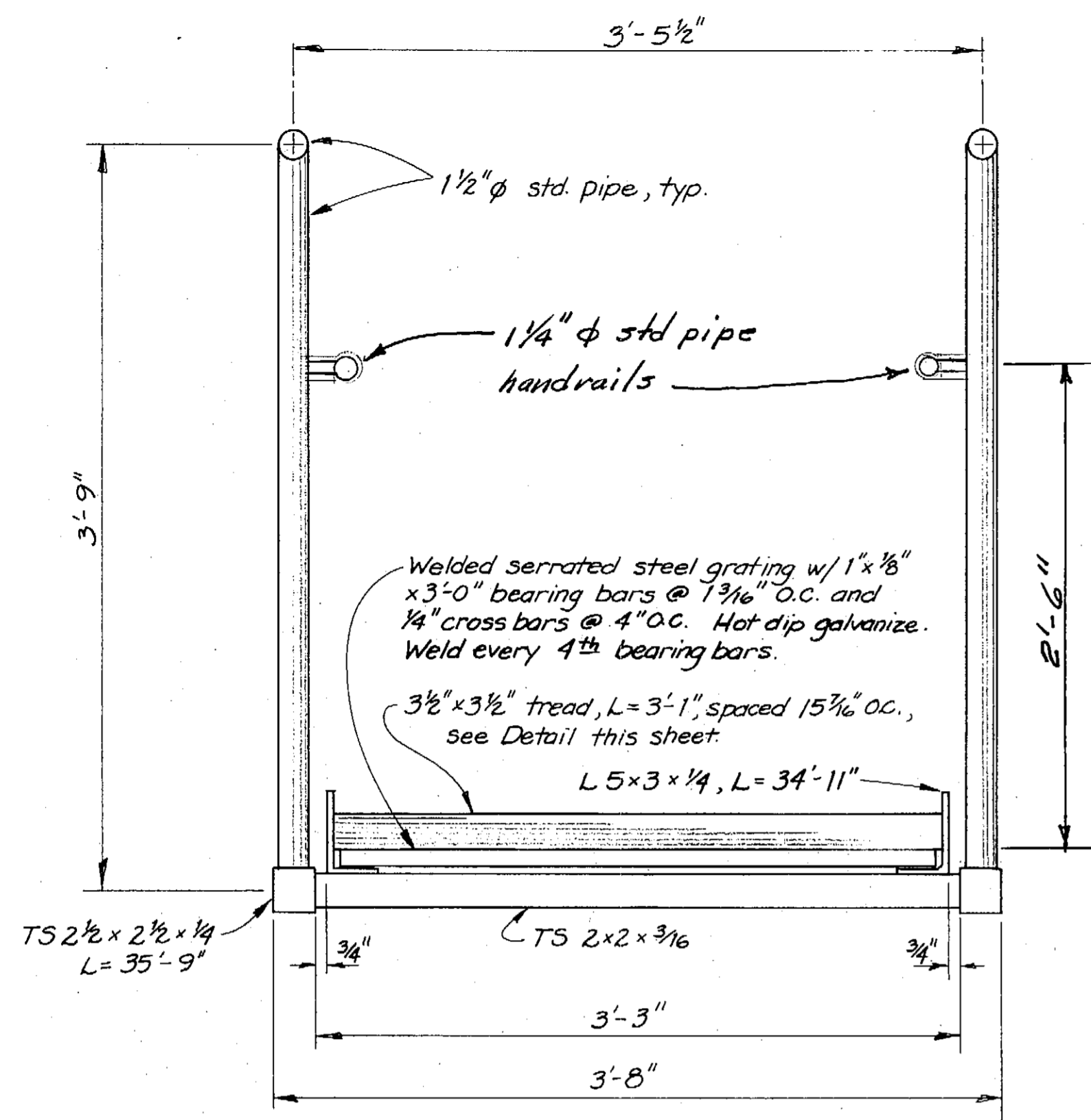


**END VIEW**

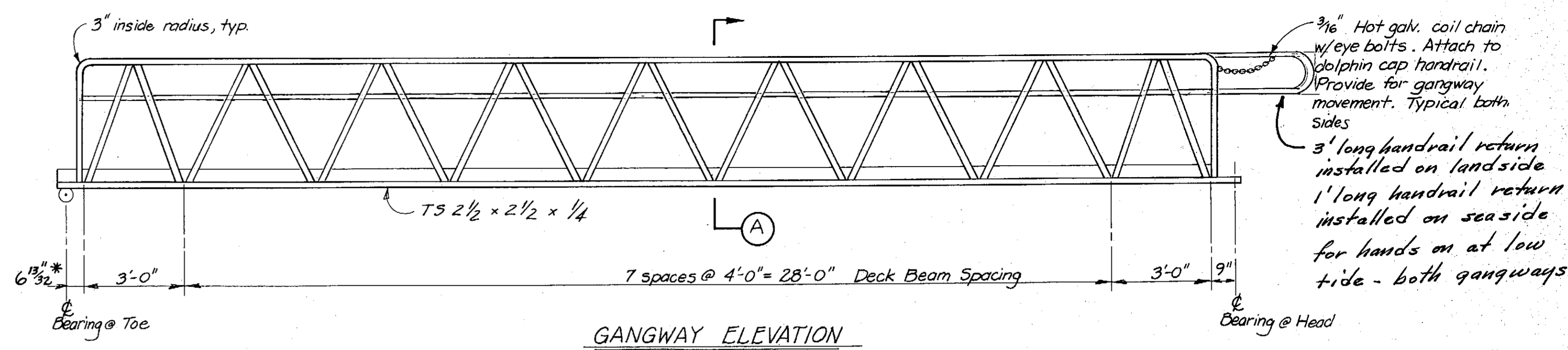
Note: Approx total wt per gangway and midspan camber

①	≅ 19,150 lbs.	2 3/4" to 3" Camber @ midspan
②	≅ 18,560 lbs.	2 1/2" to 2 3/4" " " "
③	≅ 4,296 lbs.	0" to 1/4" " " "
⑦	≅ 17,780 lbs.	2 1/4" to 2 1/2" " " "
⑧	≅ 15,910 lbs.	1 3/4" to 2" " " "

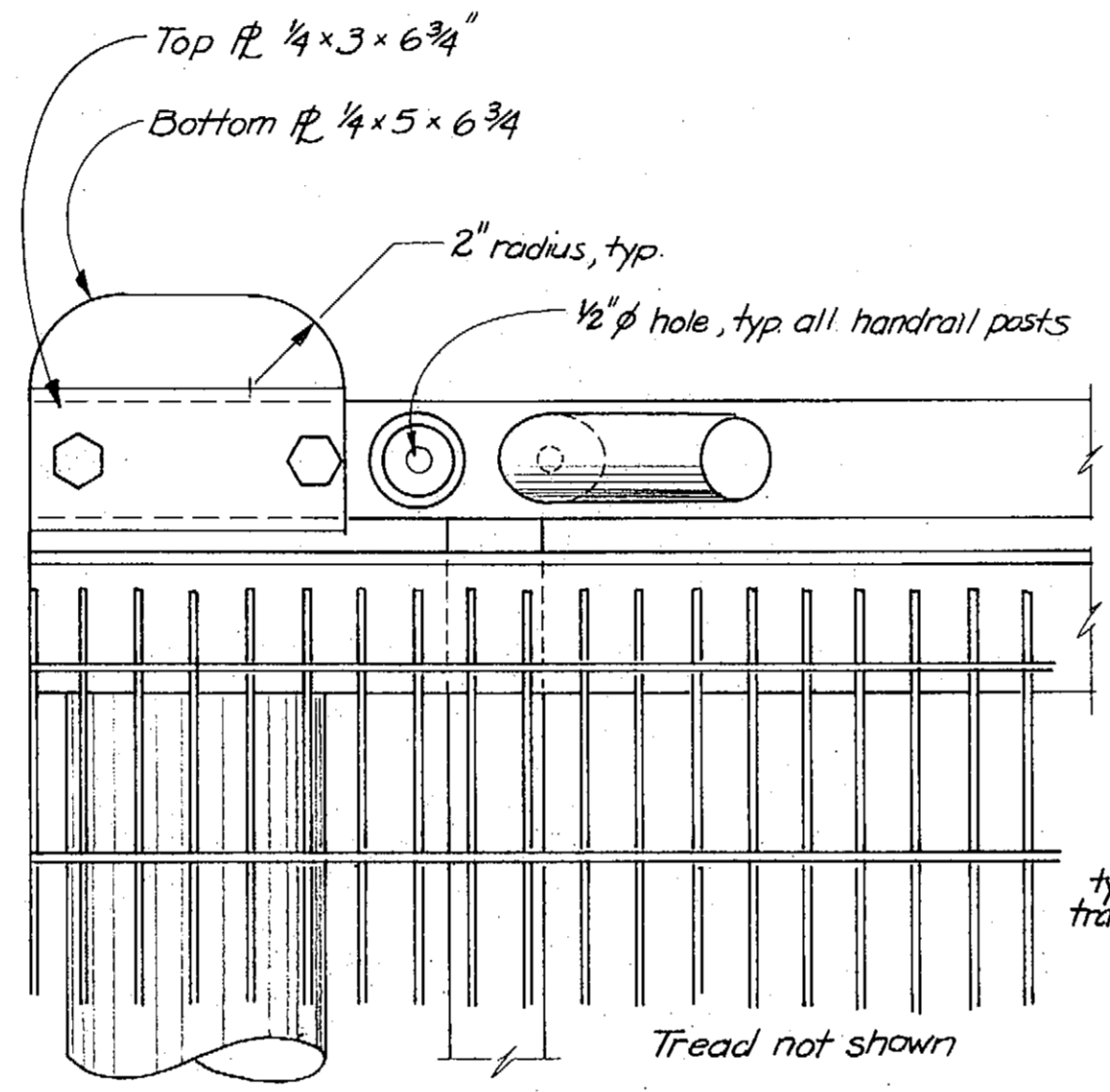
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg Alaska	
<b>CATWALK DETAILS</b>			
SCALE: As Noted	SURVEYED:	APPROVED:	
DESIGNED: staff	DRAWN: LVB		
CHECKED: JS	DATE: 3/84		
PROJECT NUMBER: A38502	SHEET 13 OF 62		



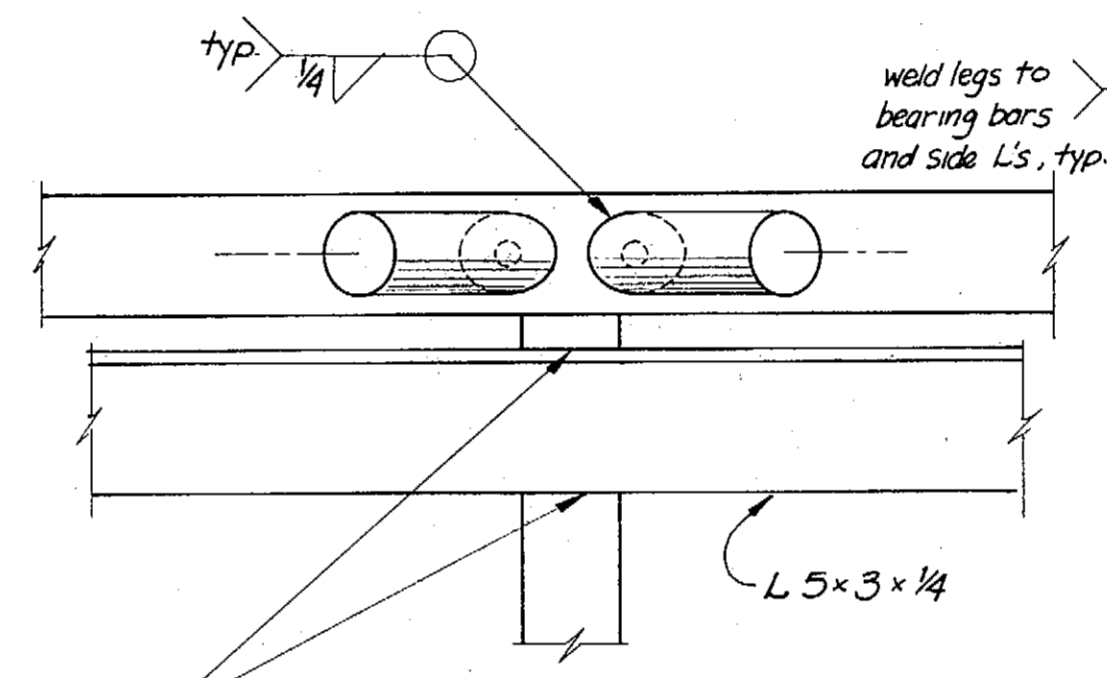
SECTION A  
1 1/2" = 1'-0"



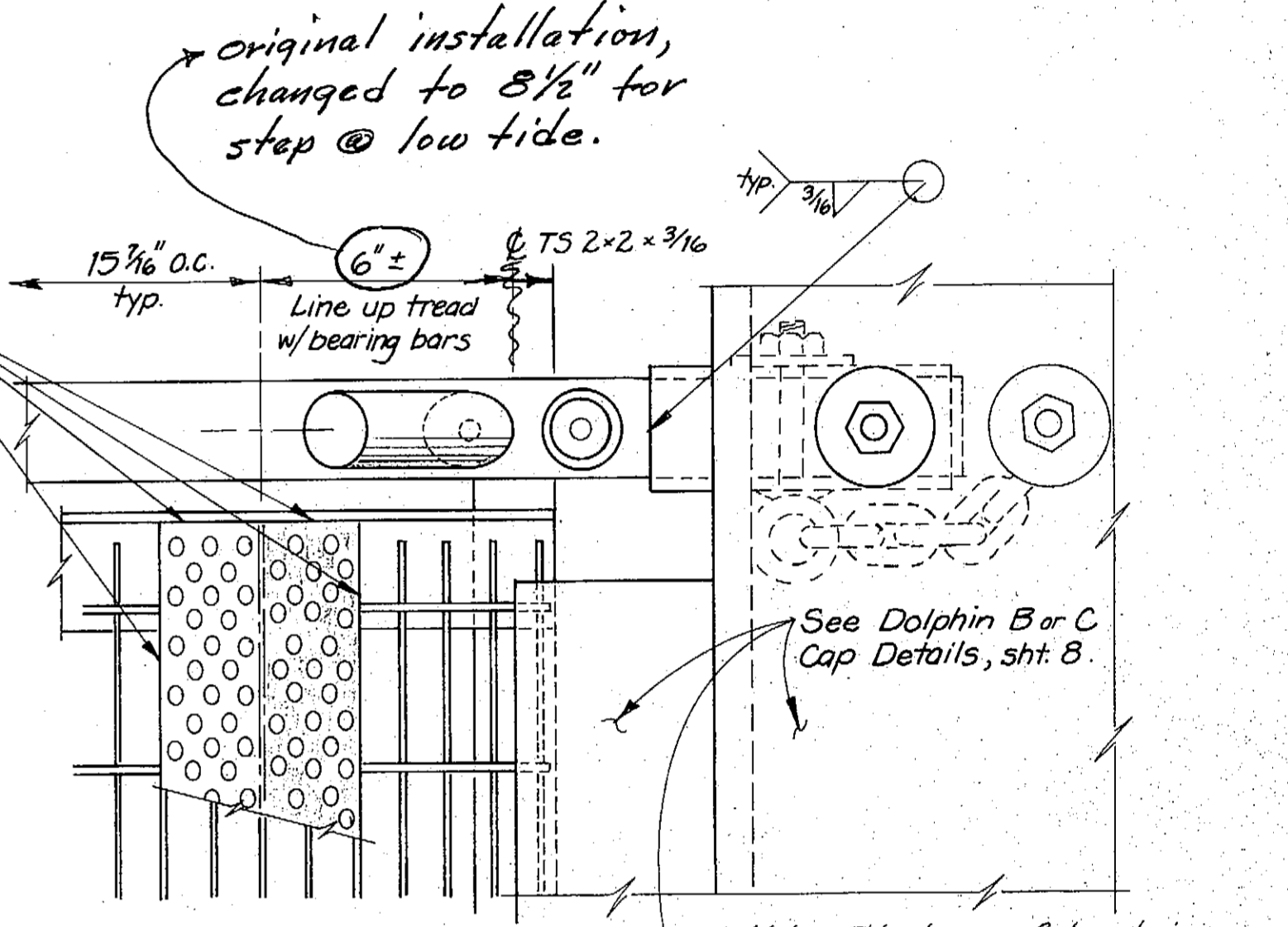
GANGWAY ELEVATION  
3/8" = 1'-0"



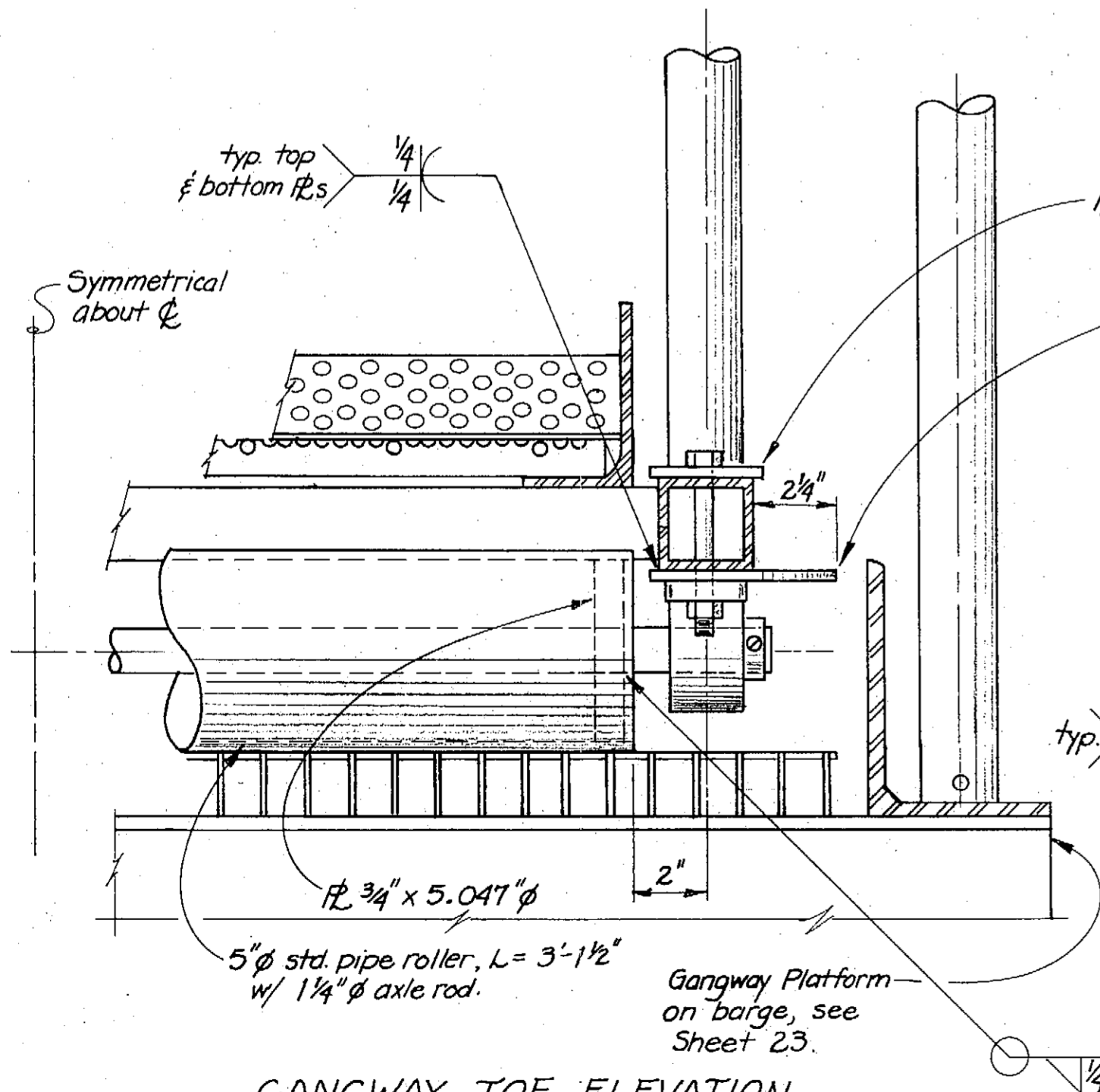
GANGWAY TOE



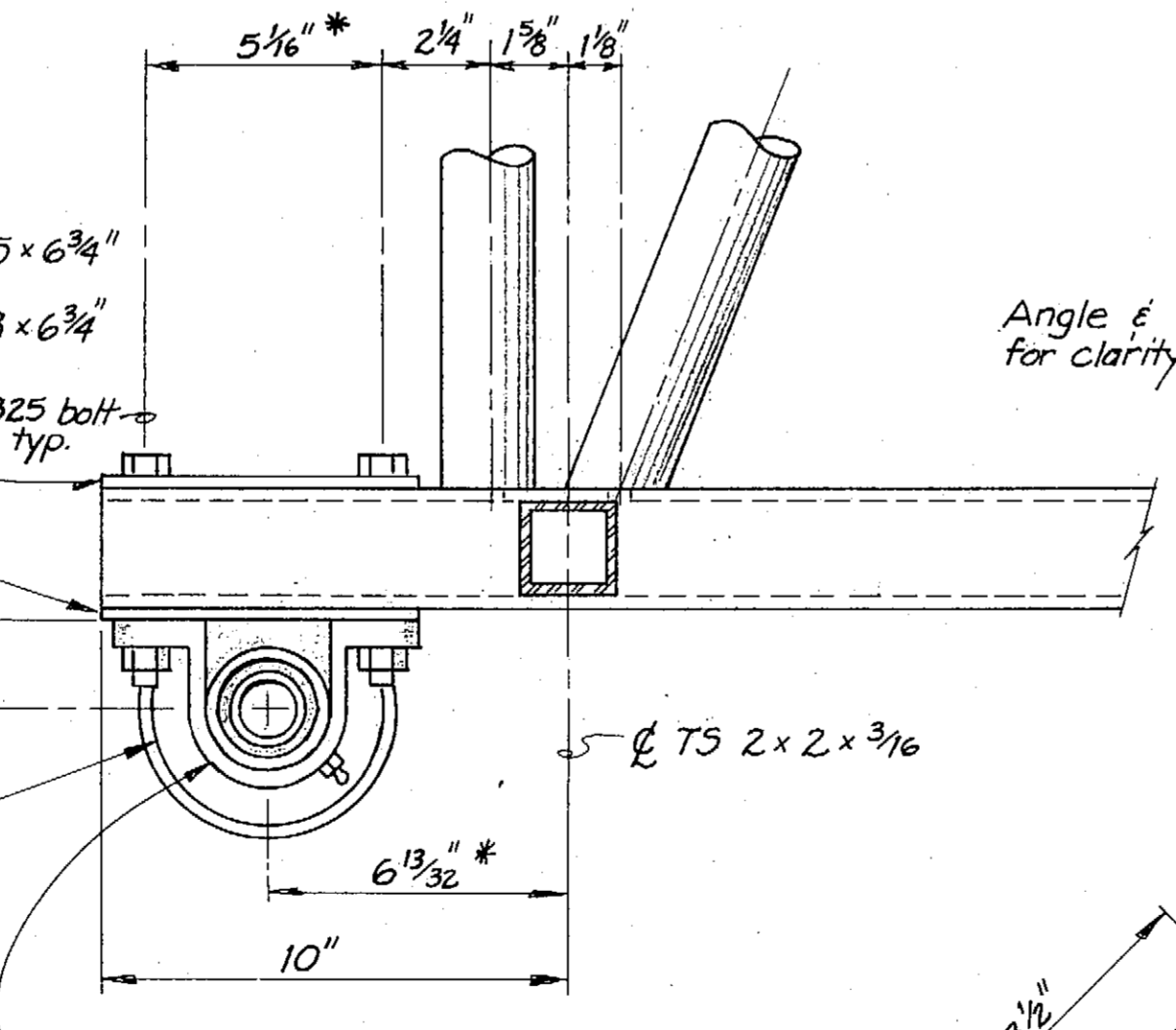
SECTIONAL DETAILS  
3" = 1'-0"



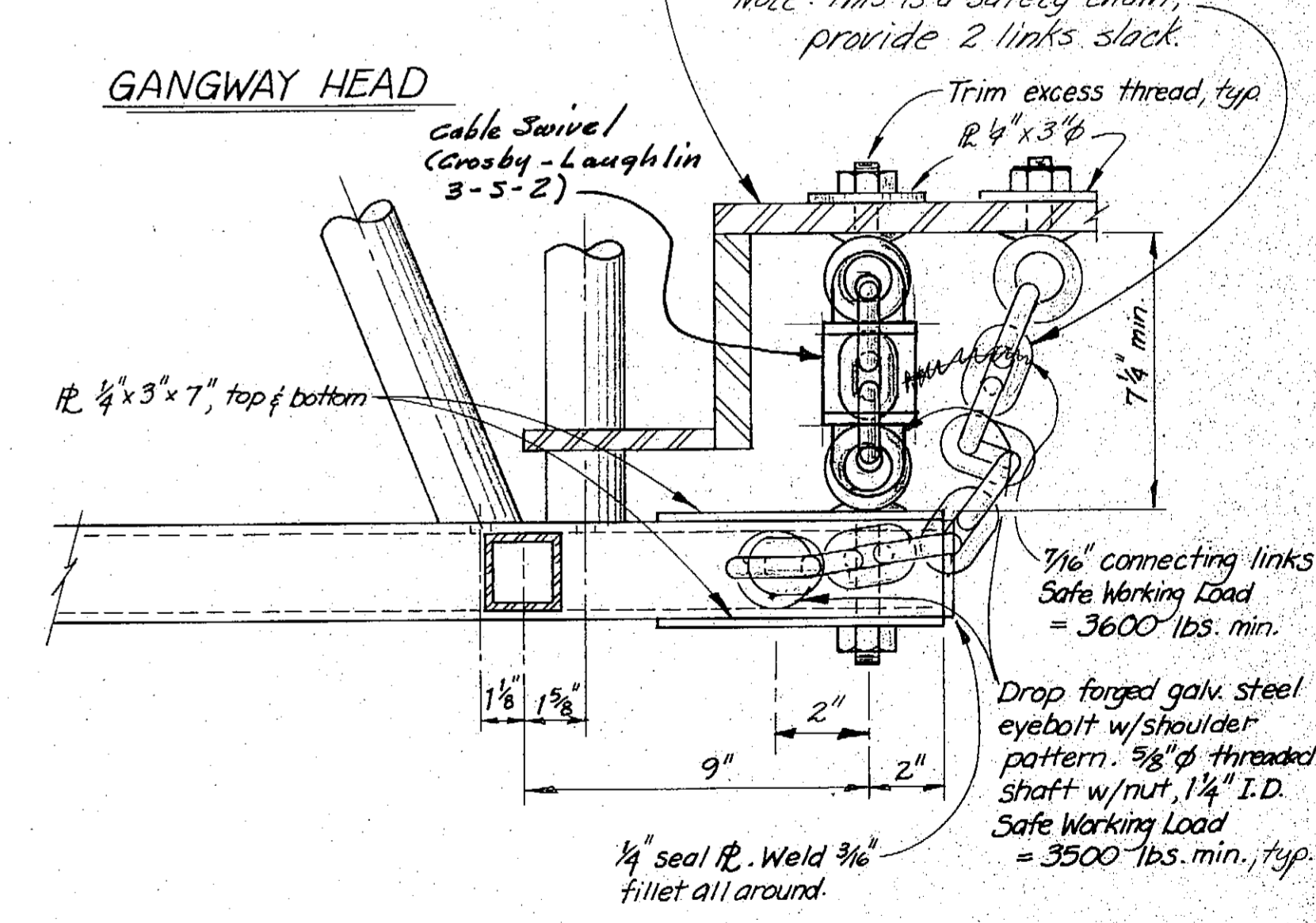
GANGWAY HEAD



GANGWAY TOE ELEVATION  
3" = 1'-0"



TREAD DETAIL (27 Req'd.)  
1/2" = 1"



Note: Approximate total wt. per gangway = 2650 lbs.  
Camber @ midspan 0 to + 1/4".

AS-BUILT

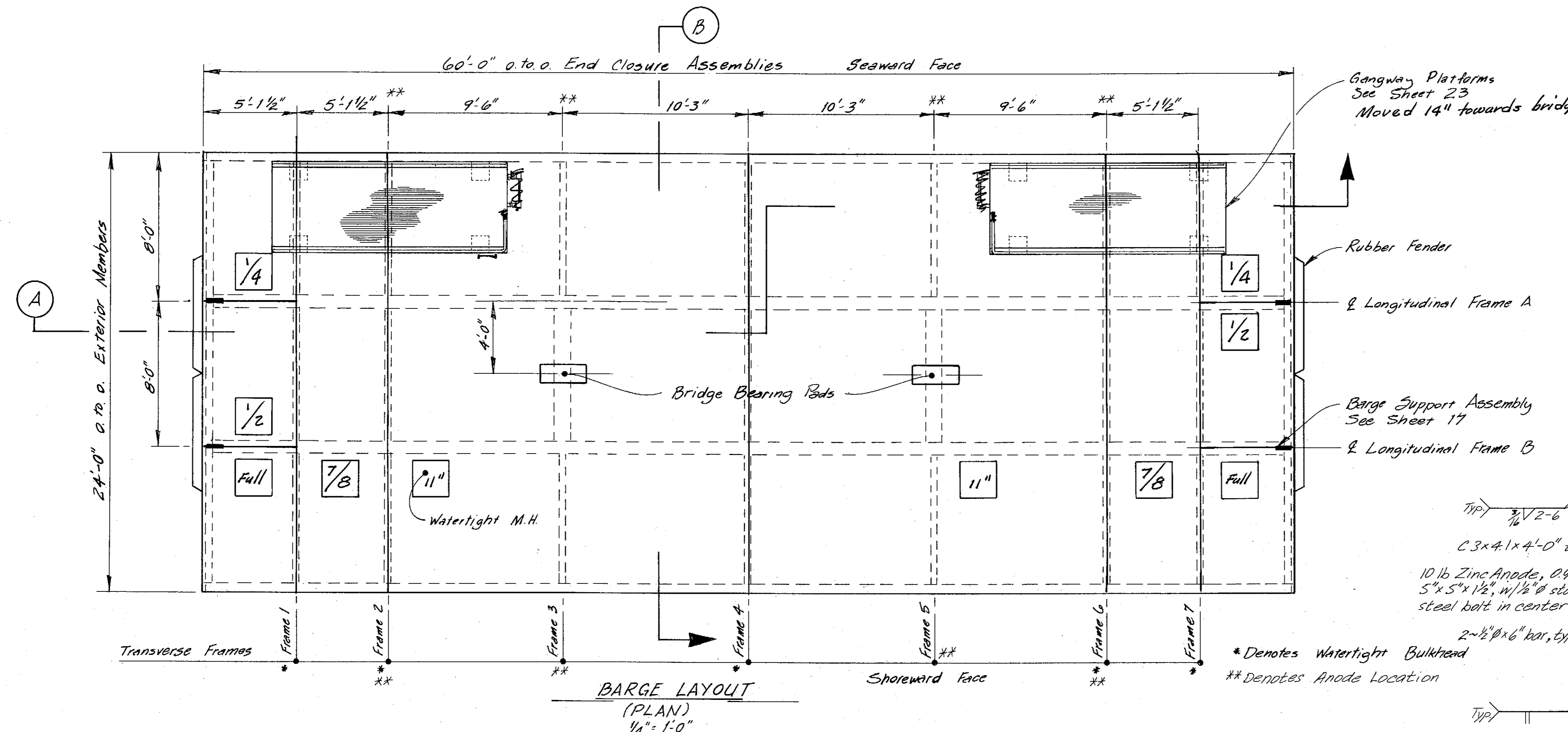
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA			
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Alaska	
	GANGWAY 4 & 5 DETAILS			
DESIGNED BS	CHECKED JS	DRAWN BS	DATE 4-84	
PROJECT NUMBER A38502	SHEET 14		OF 62	

\* Dimensions dependent upon bearing selected. Contractor shall adjust as necessary to accommodate bearing used.

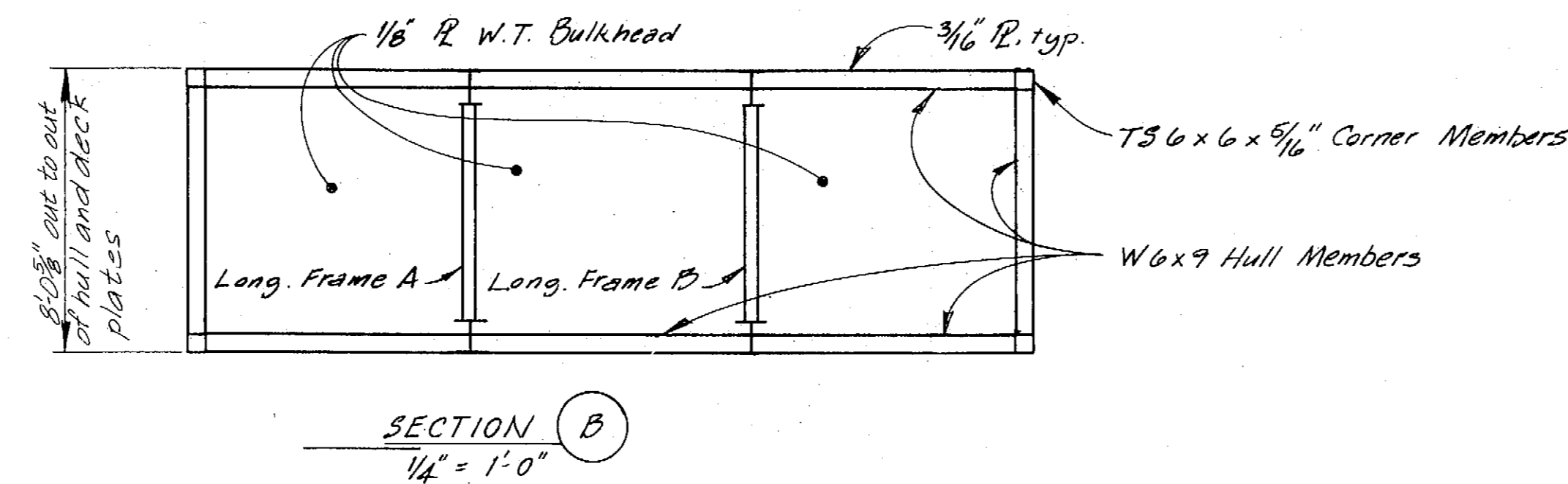
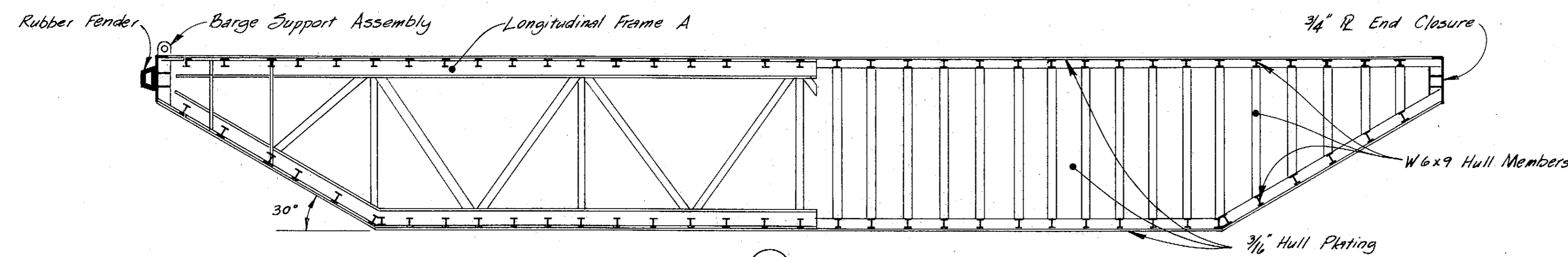
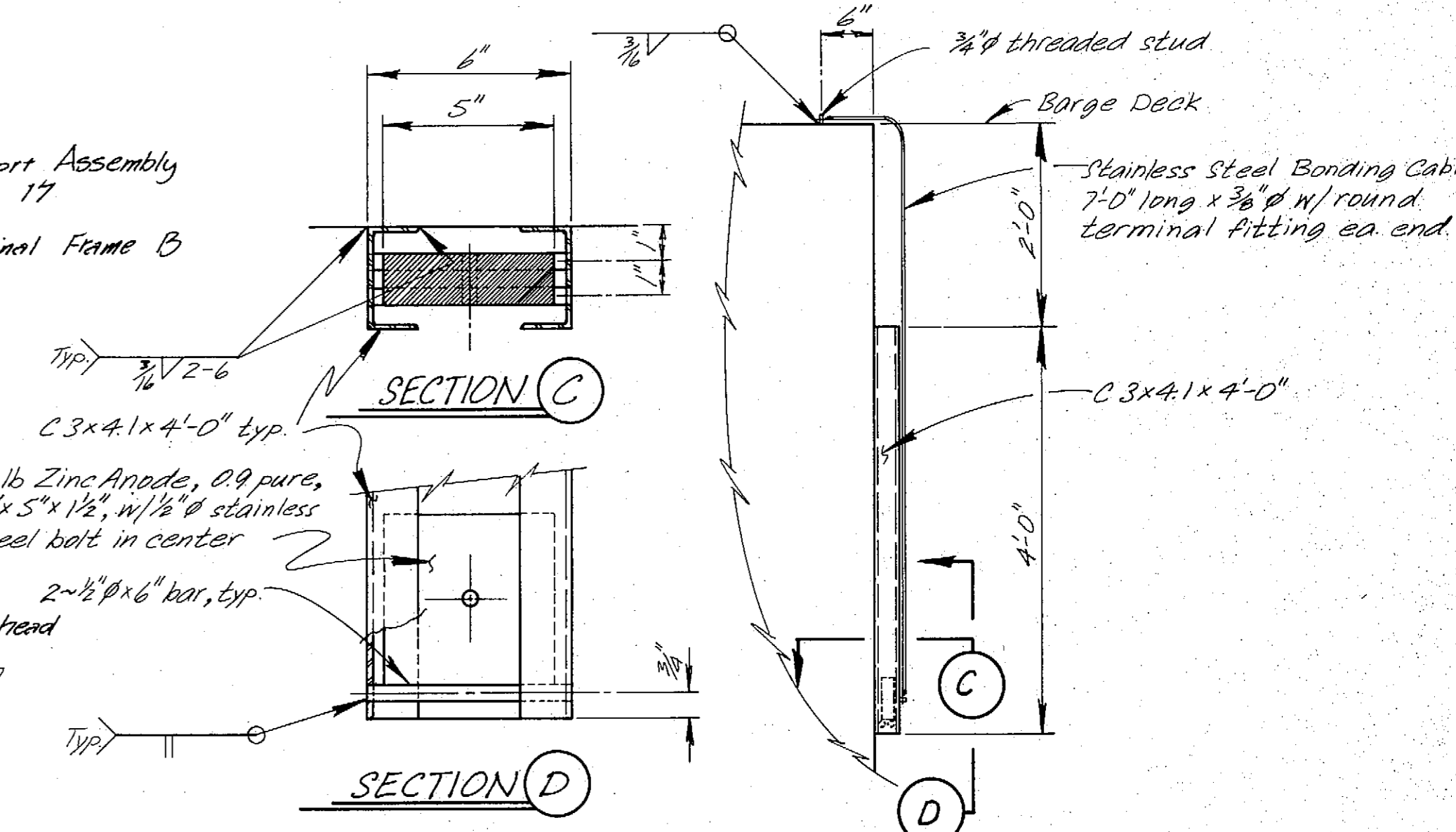


4. Prior to application of the protective coating each compartment shall be tested for water-tightness. Test may be made by smoke and pneumatic or hydraulic methods to 7 feet equivalent head. Test method and details of test shall be subject to the approval of the Engineer.

- Notes:
1. Barge Design Freeboard = 2'-6" (w/ballast)
  2. Ballast compartments with fresh potable water and 20% ethylene glycol mixture.
  3. Barge deck to be level both ways, longitudinally and laterally, with full dead load, i.e; bridge, barge with ballast, platforms, gangways and incidentals.



Gangway Platforms See Sheet 23 Moved 14" towards bridge.



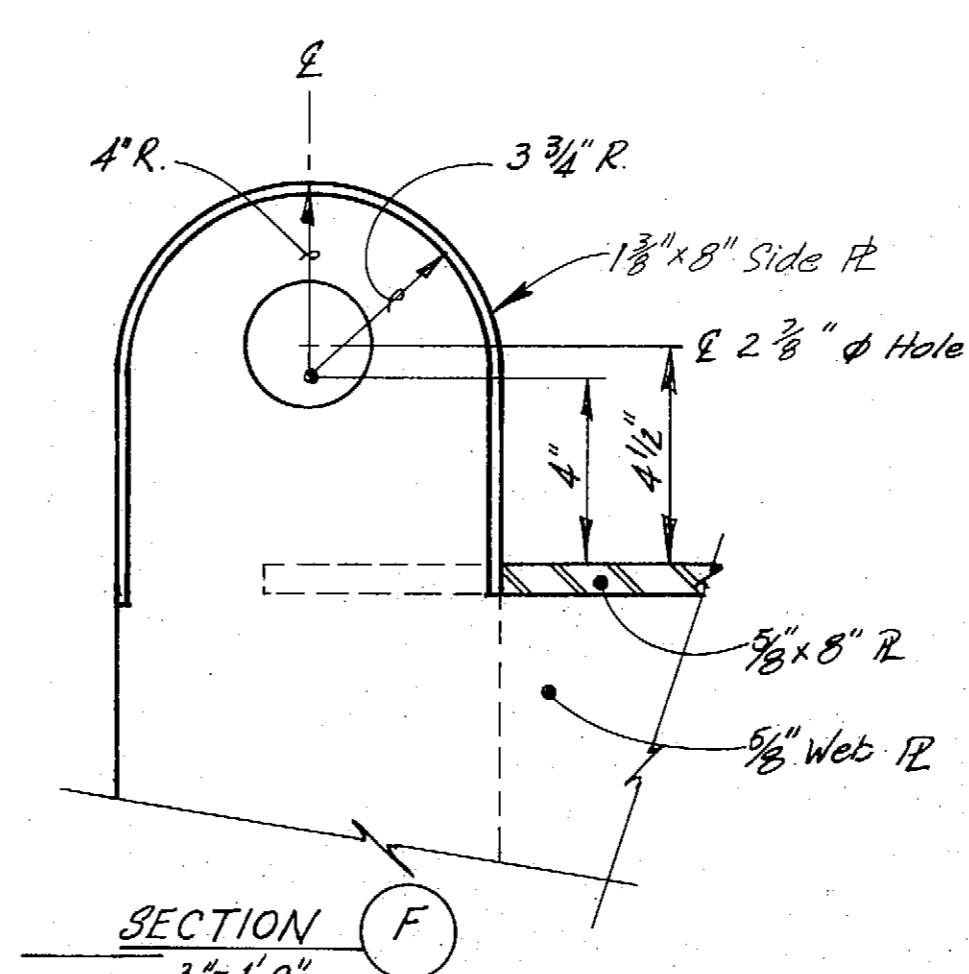
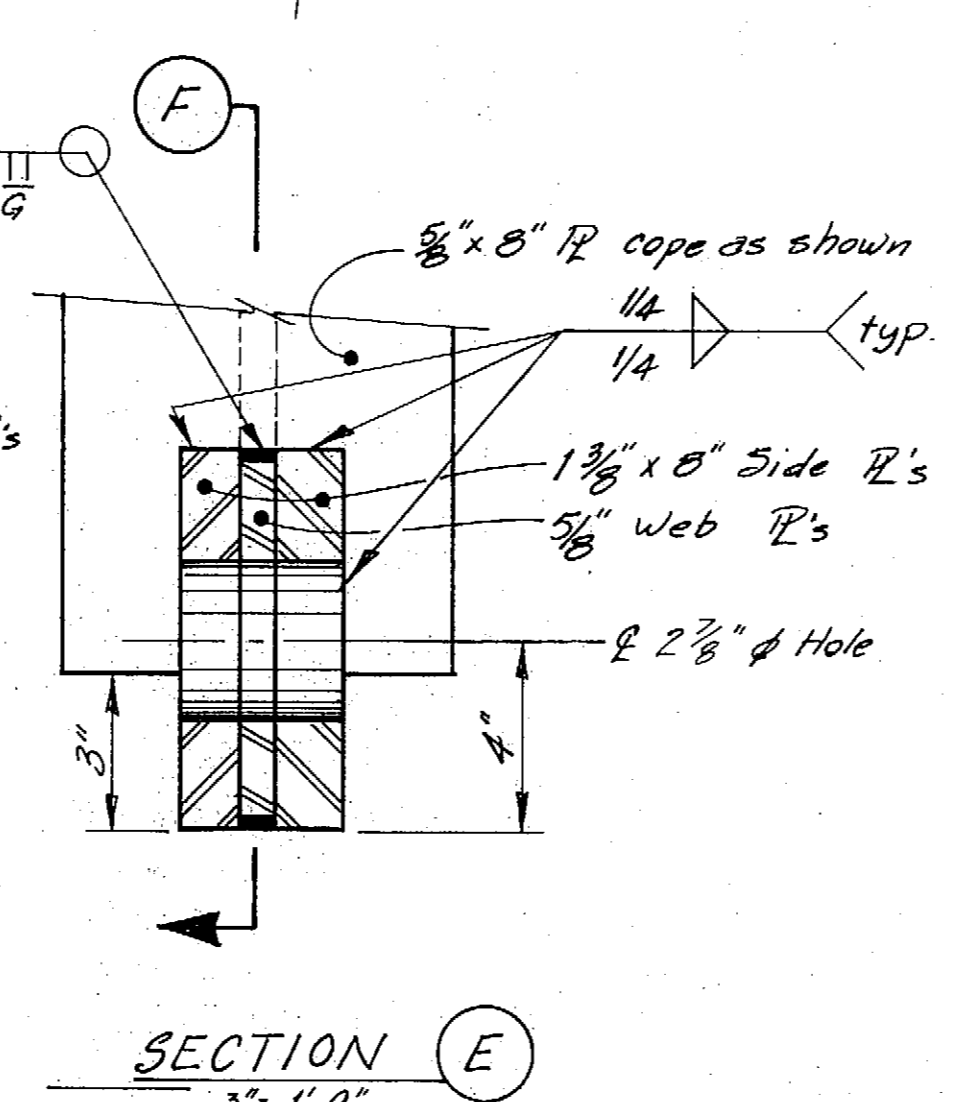
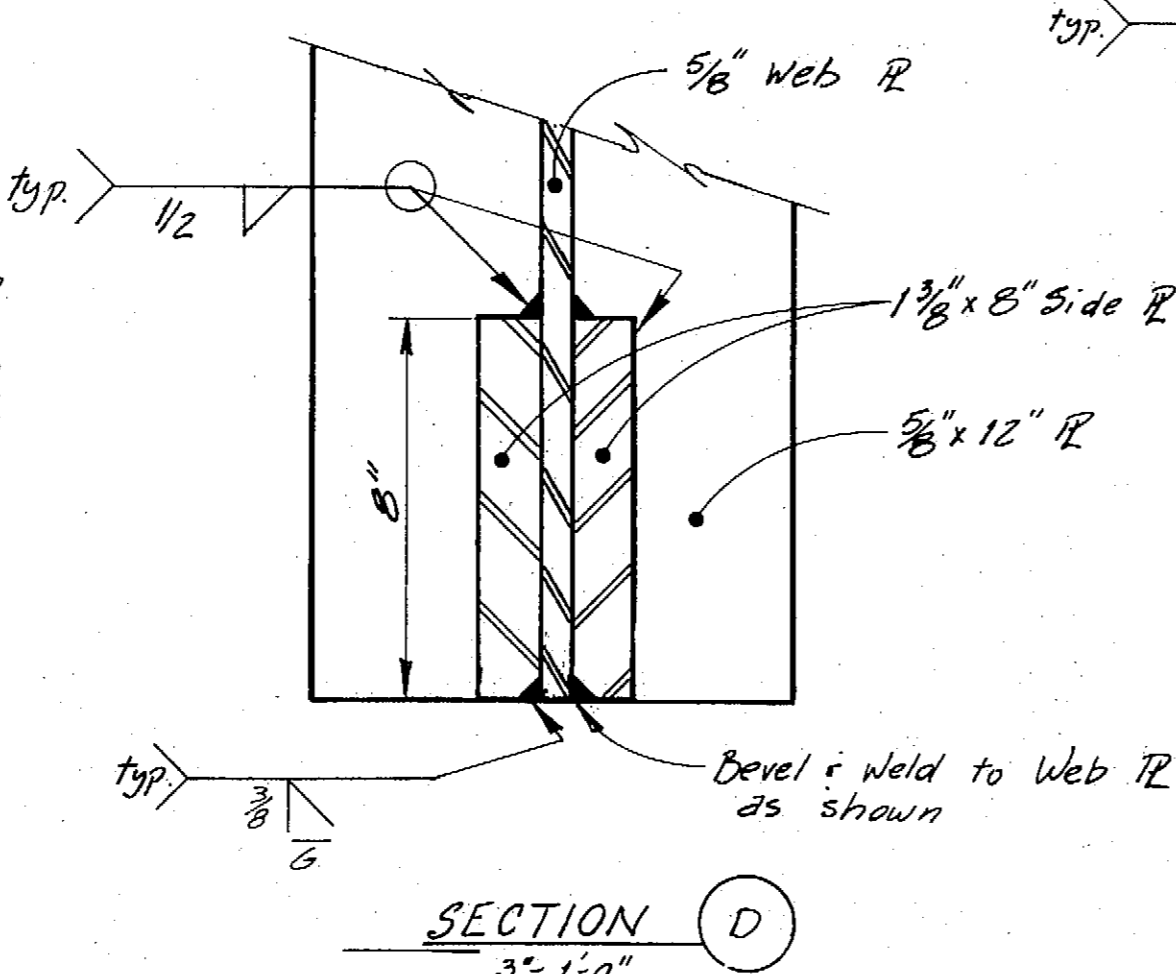
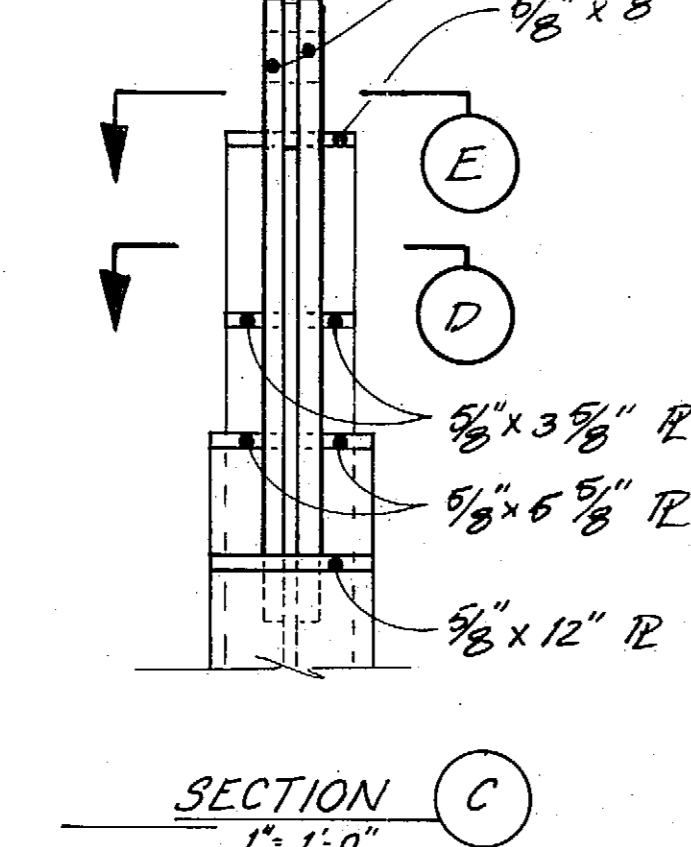
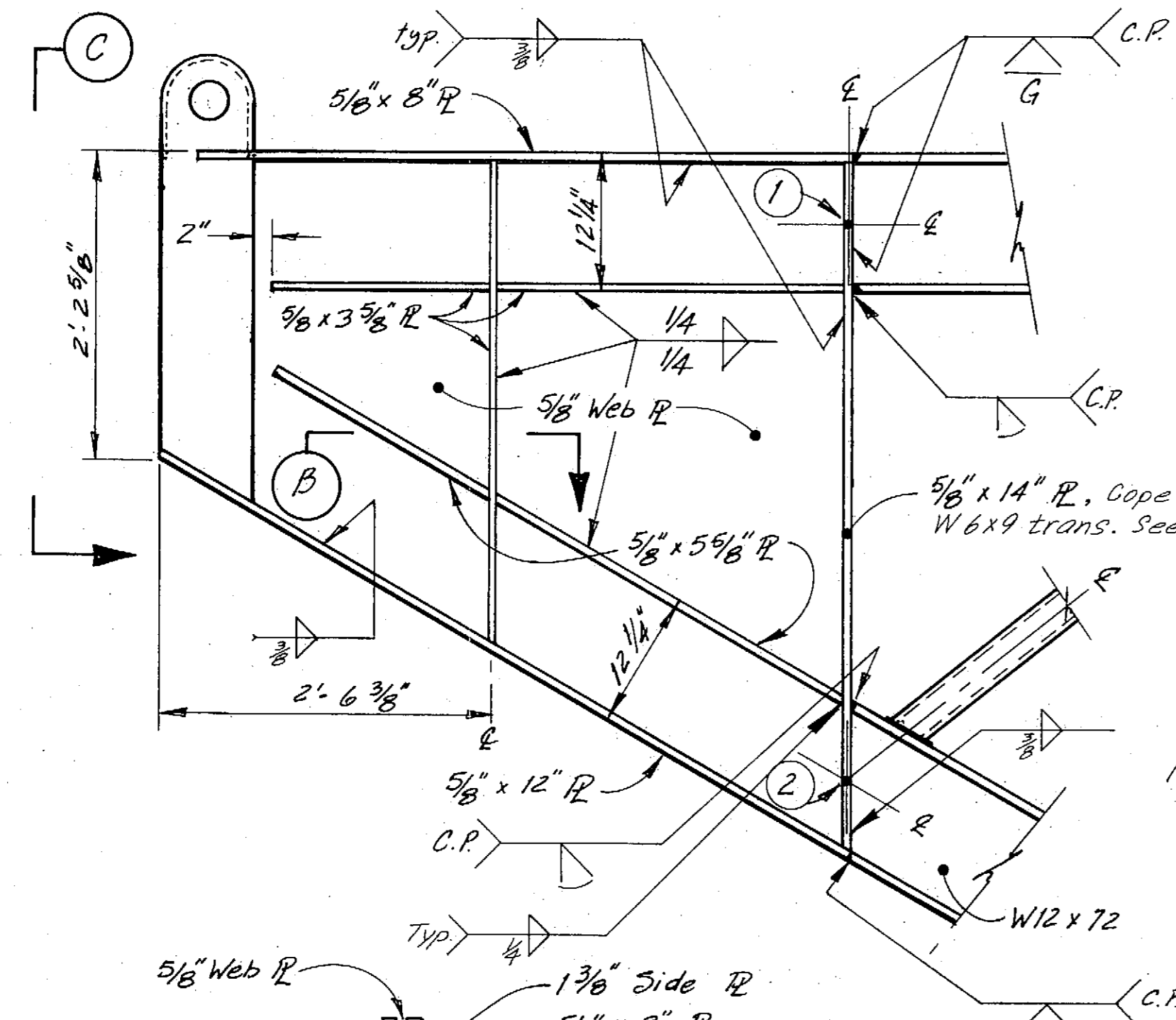
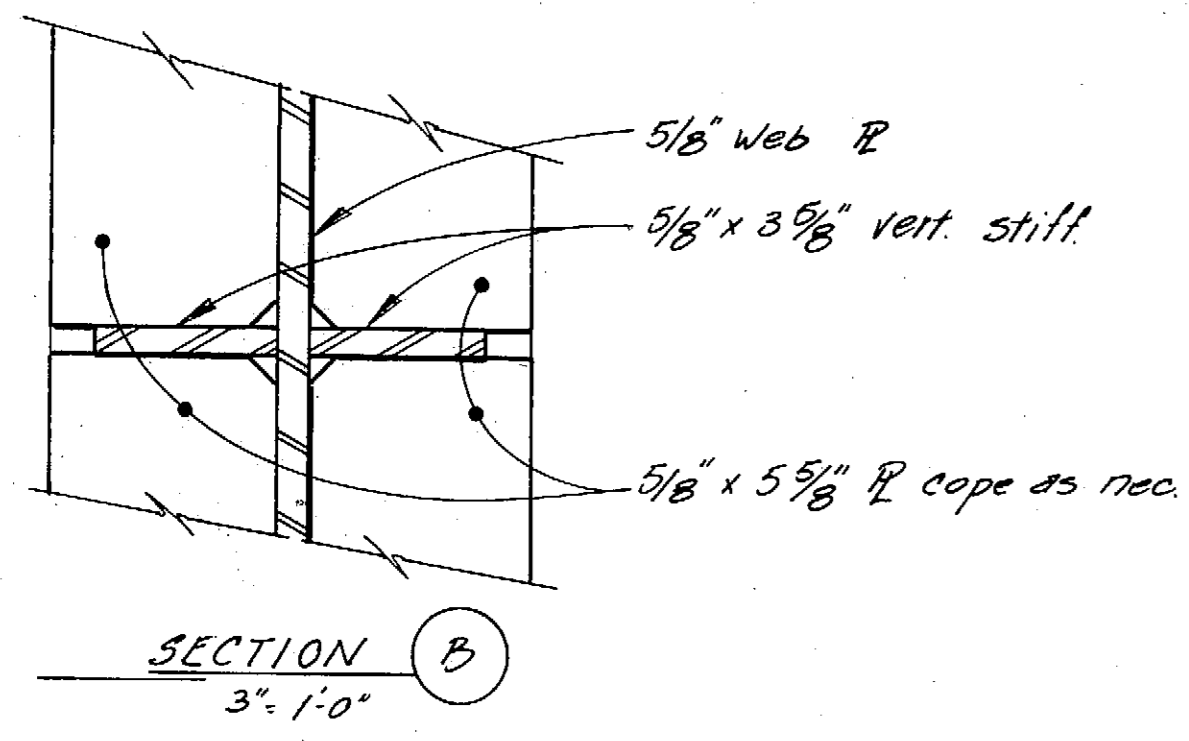
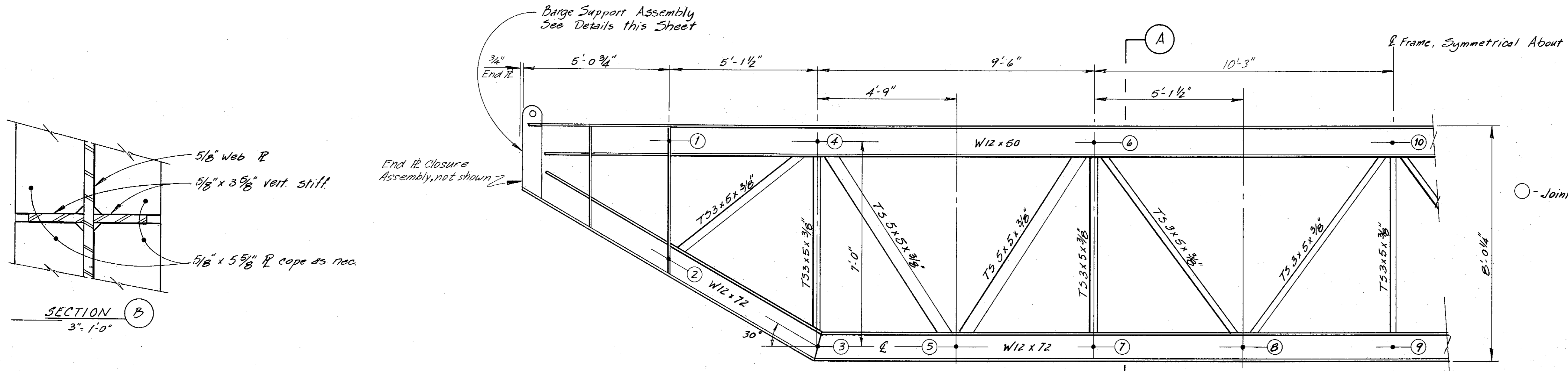
BARGE SHEETS - REFERENCE INDEX	
Sheet No.	Description
16	Barge Layout & Typical Sections
17	Longitudinal Frames A & B
18	Transverse Frames 1-7
19	Details Frames 1-7
20	Details Frames 2, 4 & 6
21	Details Frames 3 & 5
22	Watertight Bulkheads & Bridge Bearing Details
23	Hull & Deck Panel Layout & Gangway Platforms
24	Panels T1-T11 & Manhole Details
25	Panels B1-B11 & S1-SA
26	End Closure Assembly & Fender Details
27	Panel Connection & Misc. Details

Note: Approximate Total Weight of Barge and Platforms ≈ 110,000 lbs.

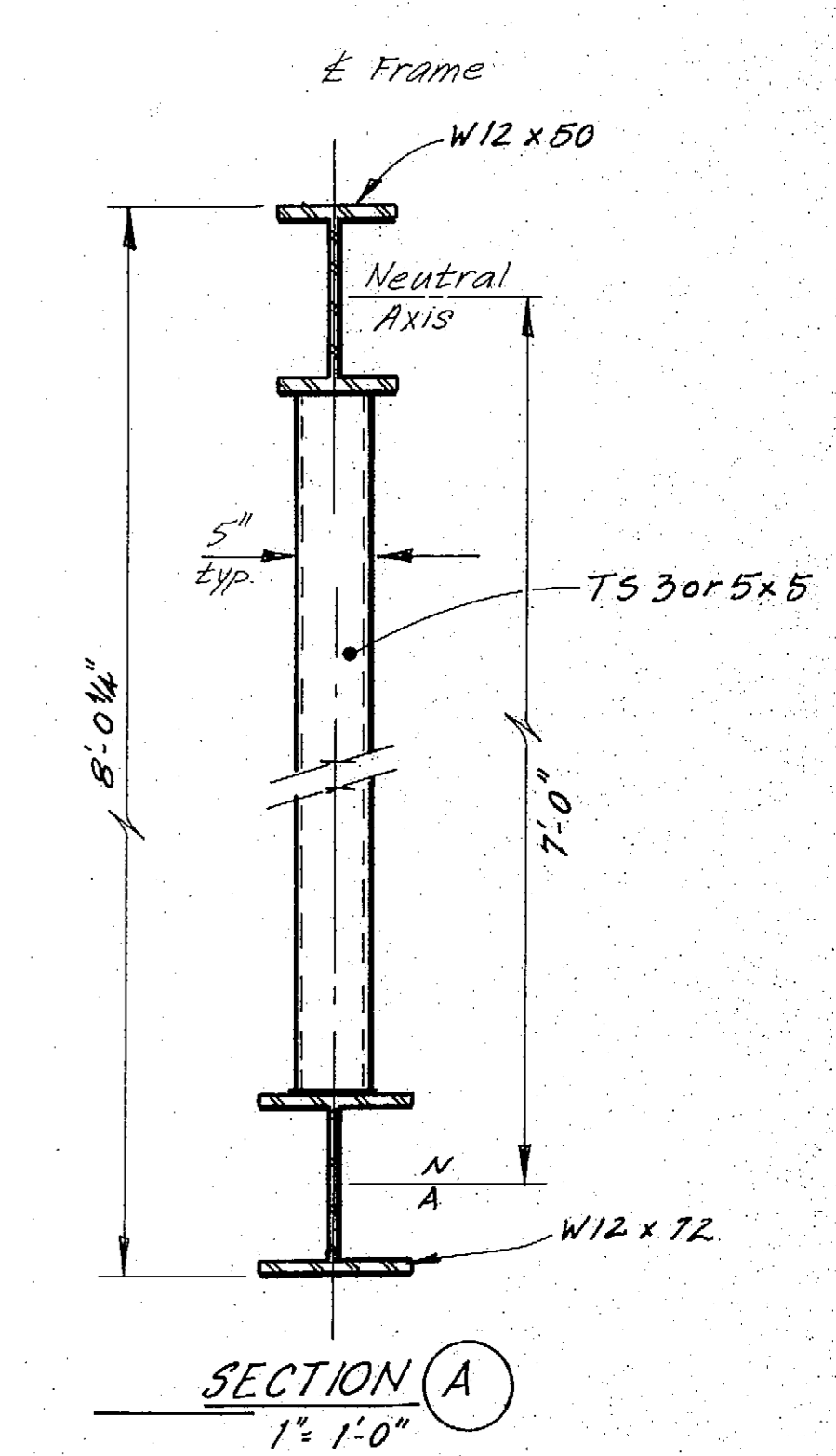
A.S.-BUILT

	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA			
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Anchorage	
BARGE LAYOUT & TYPICAL SECTIONS				
DESIGNED JAL	CHECKED JS	DRAWN JAL	DATE 3-84	
PROJECT NUMBER F-095-4(15) & A38502		SHEET 16 OF 62		

2/25/85



○ - Joint Ref. No.



Notes:  
1. Unless otherwise noted, all main chord members shall be full length.

**A S - BUILT**

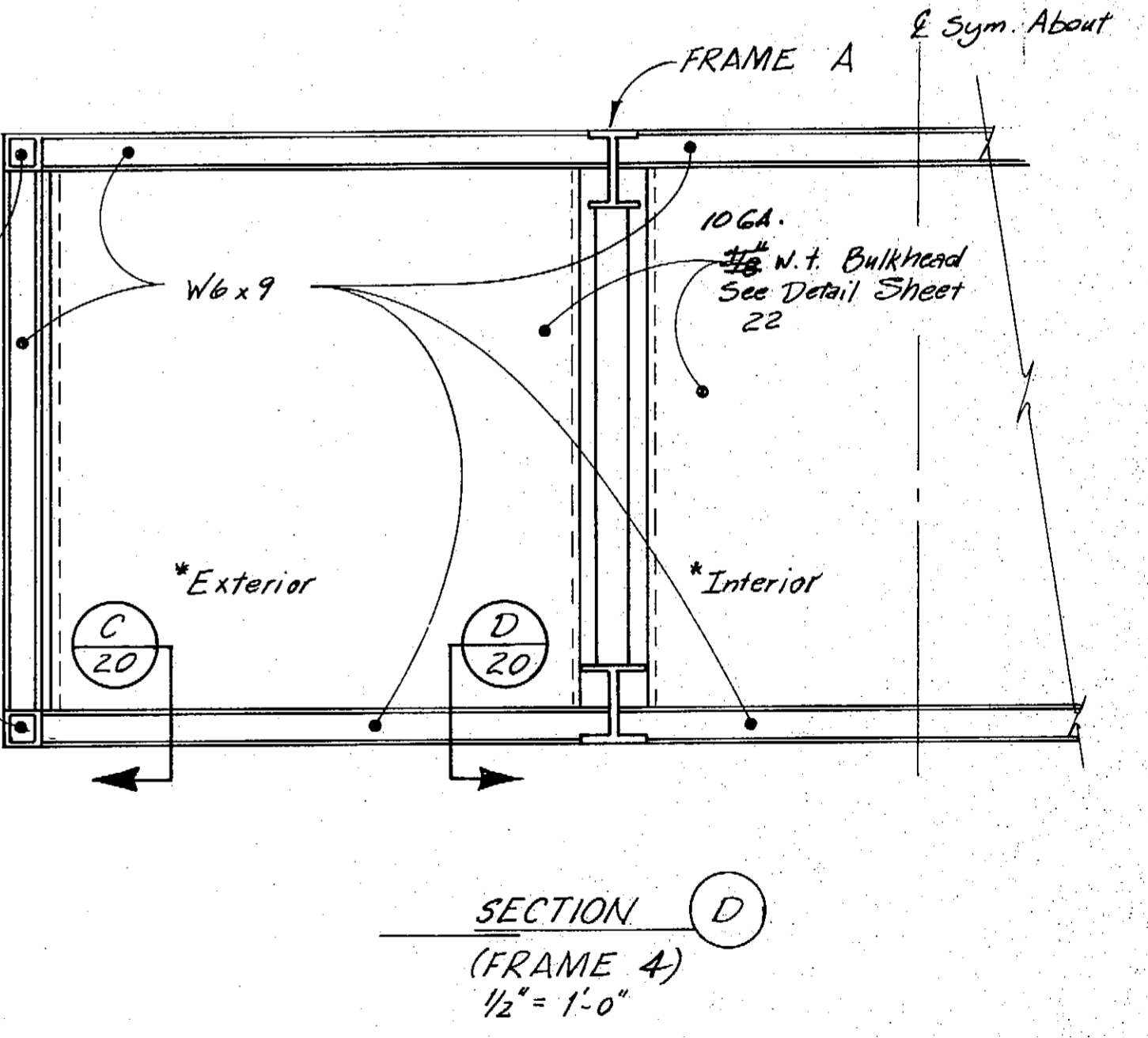
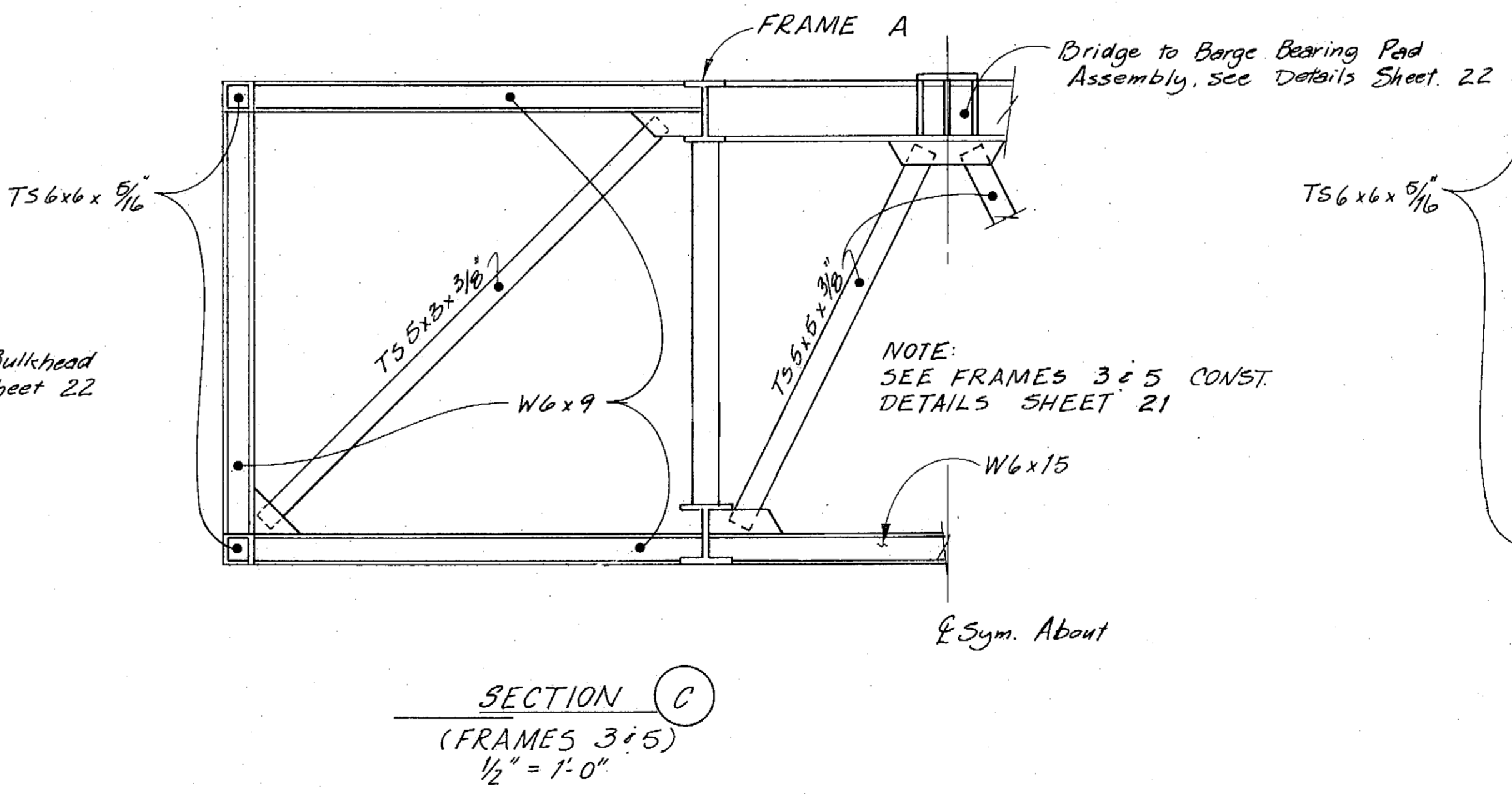
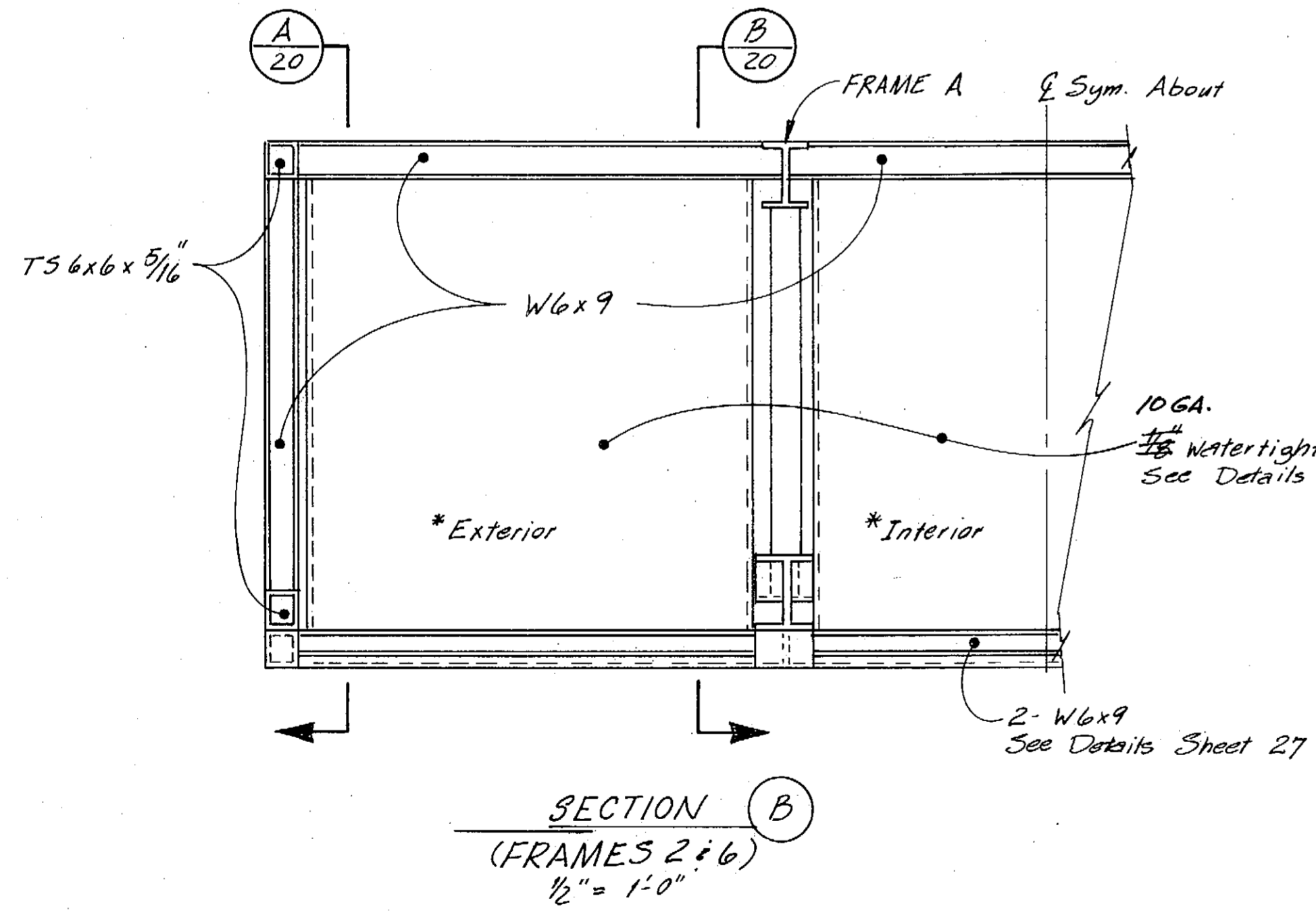
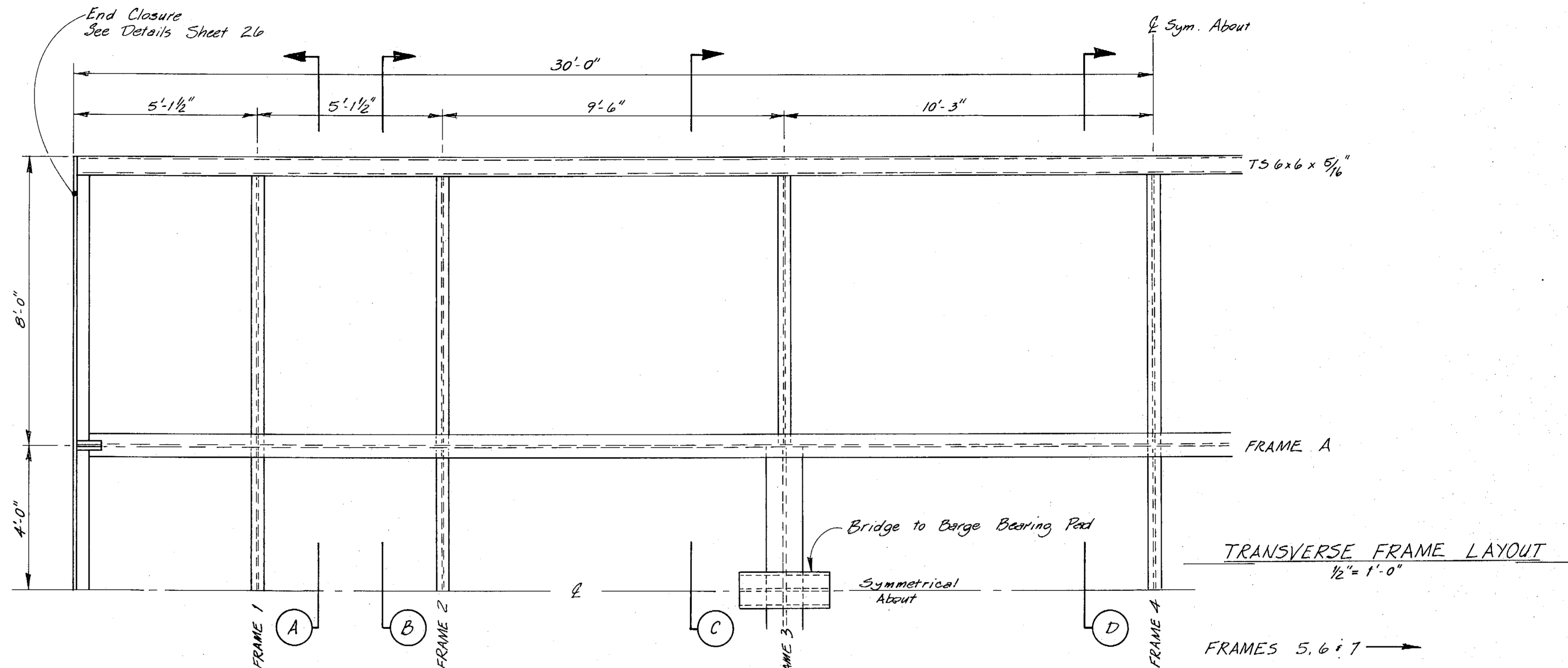
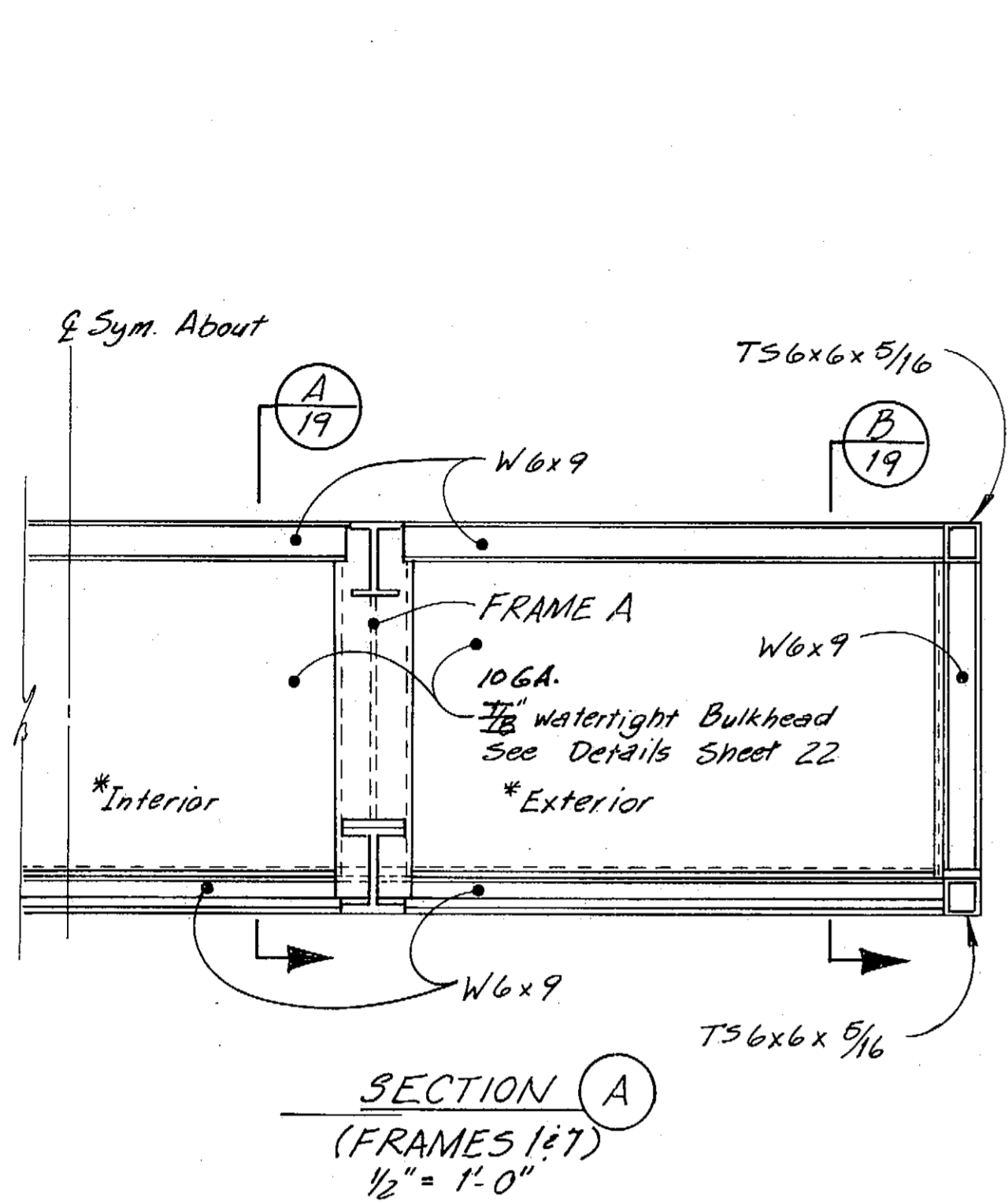
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

**STATE OF ALASKA**  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
Petersburg Alaska

**LONGITUDINAL FRAMES A & B**

DESIGNED JAL	CHECKED JS	DRAWN JAL	DATE 3-84
PROJECT NUMBER F-095-A(18) & A38502	SHEET 17	OF 62	

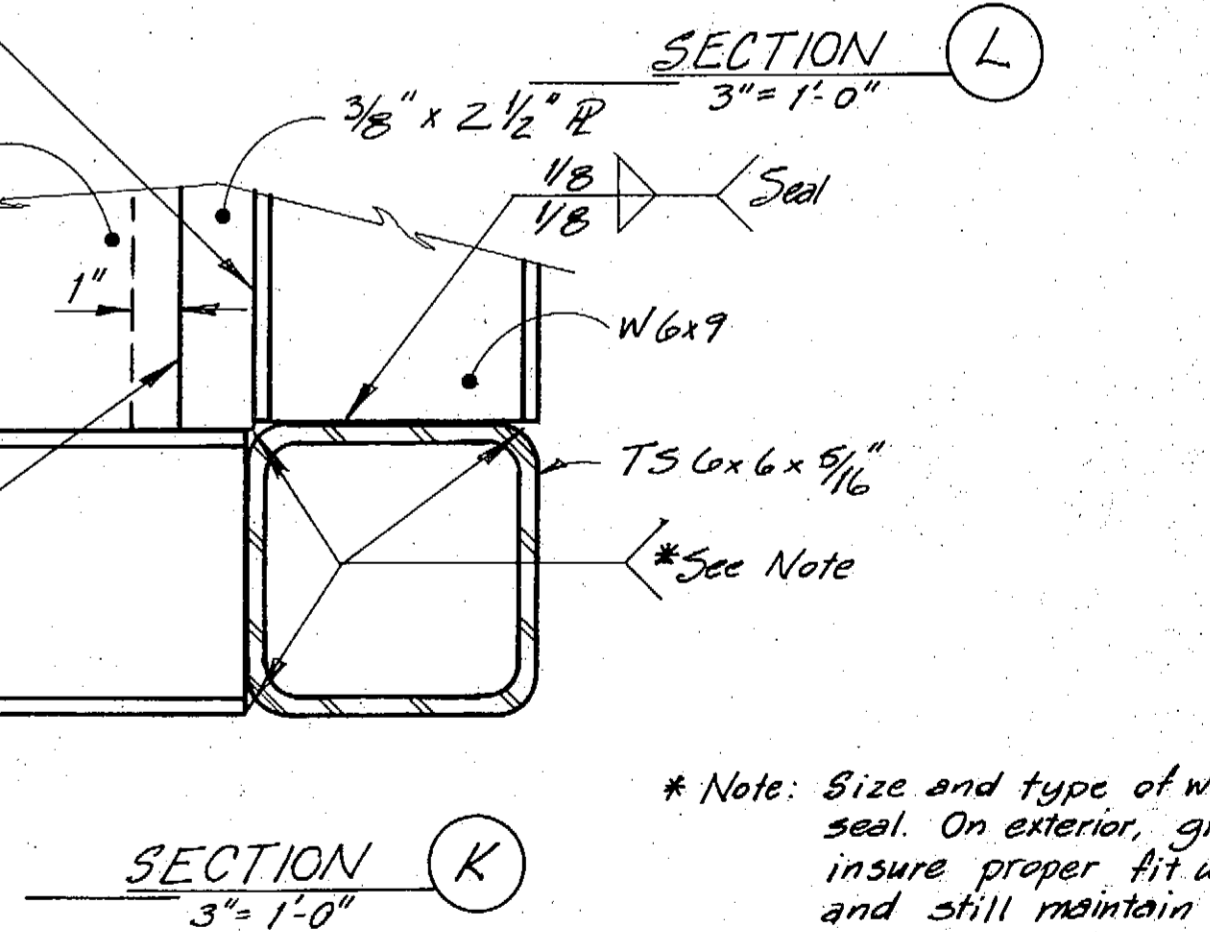
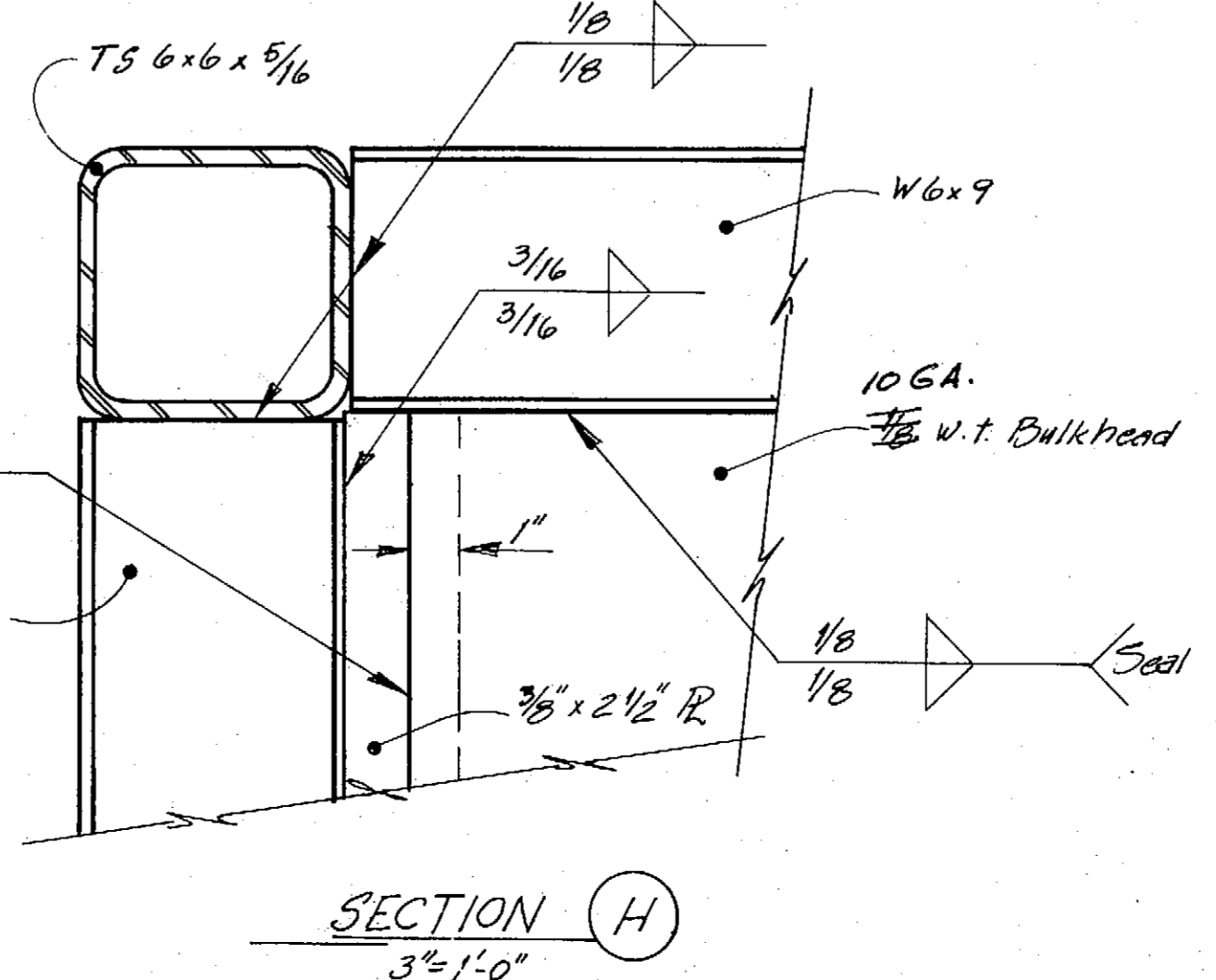
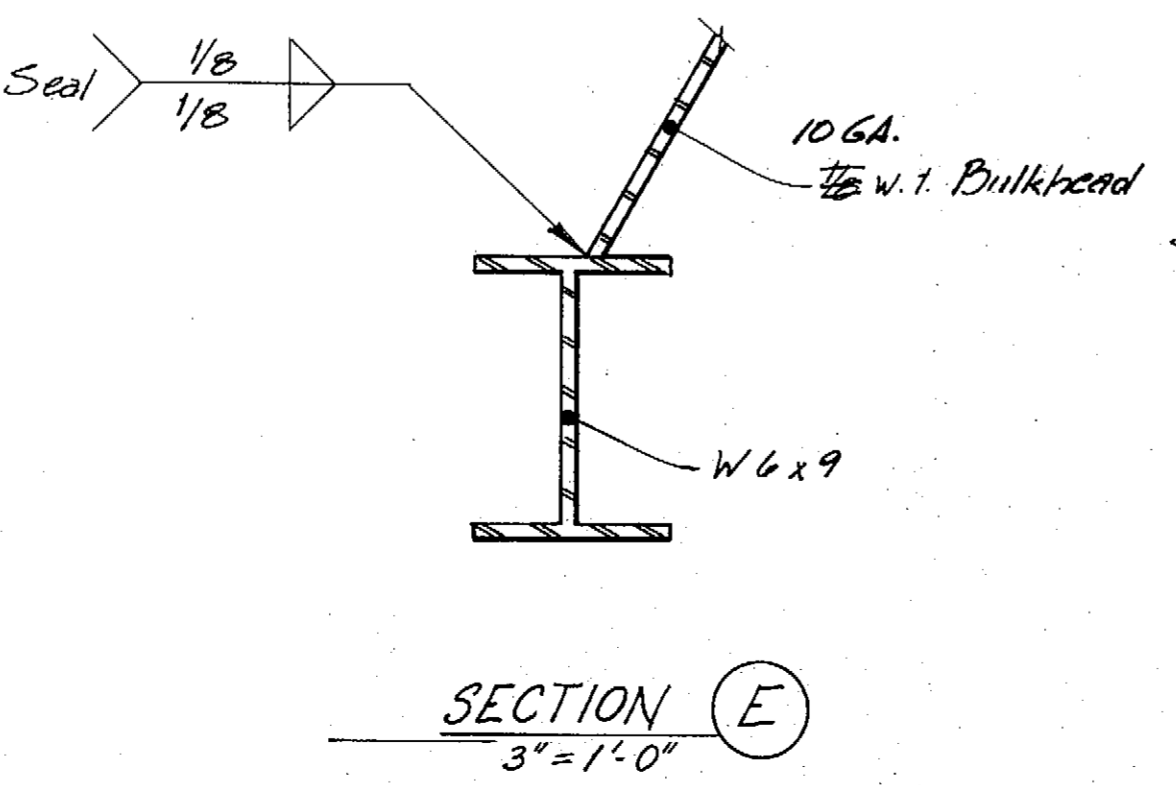
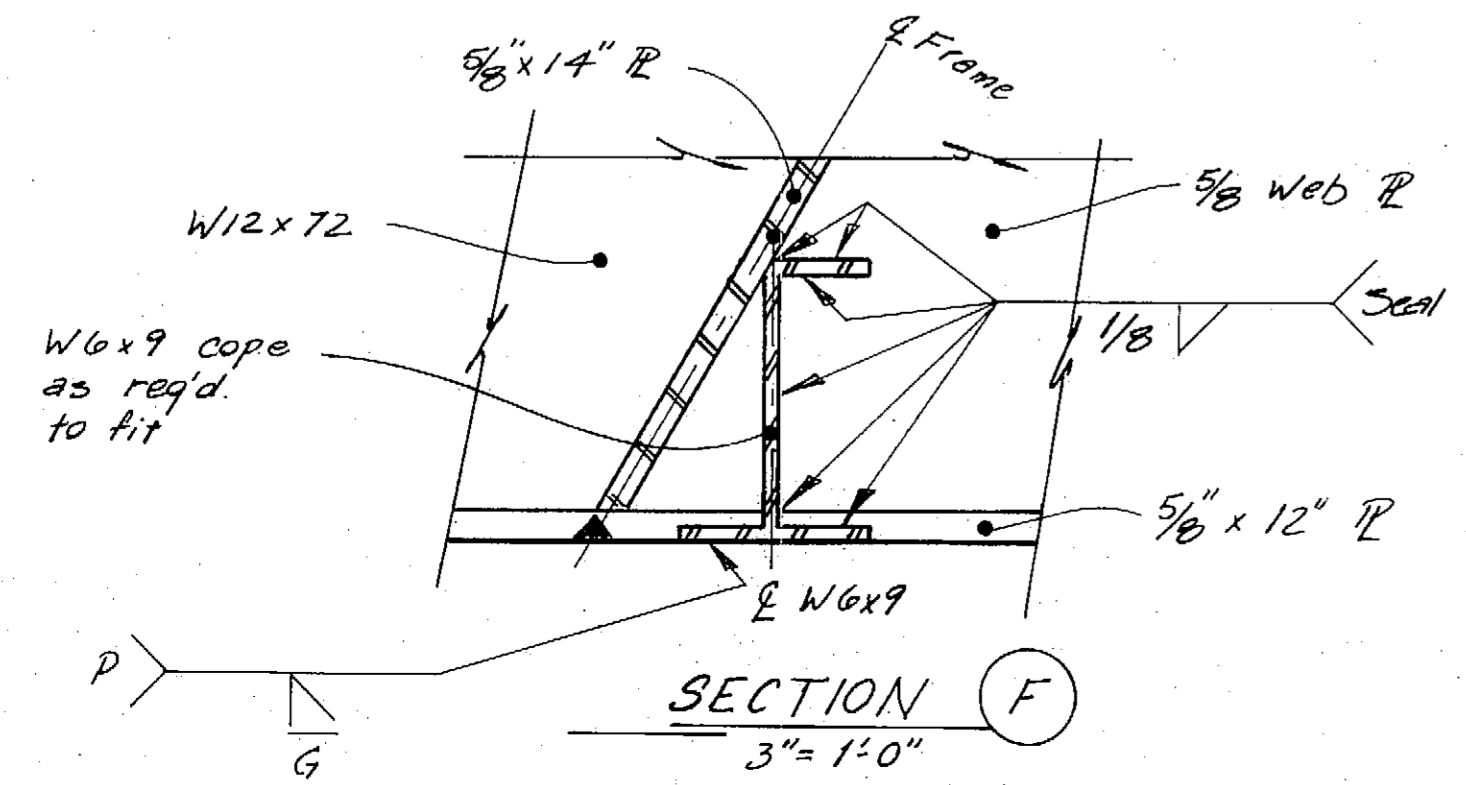
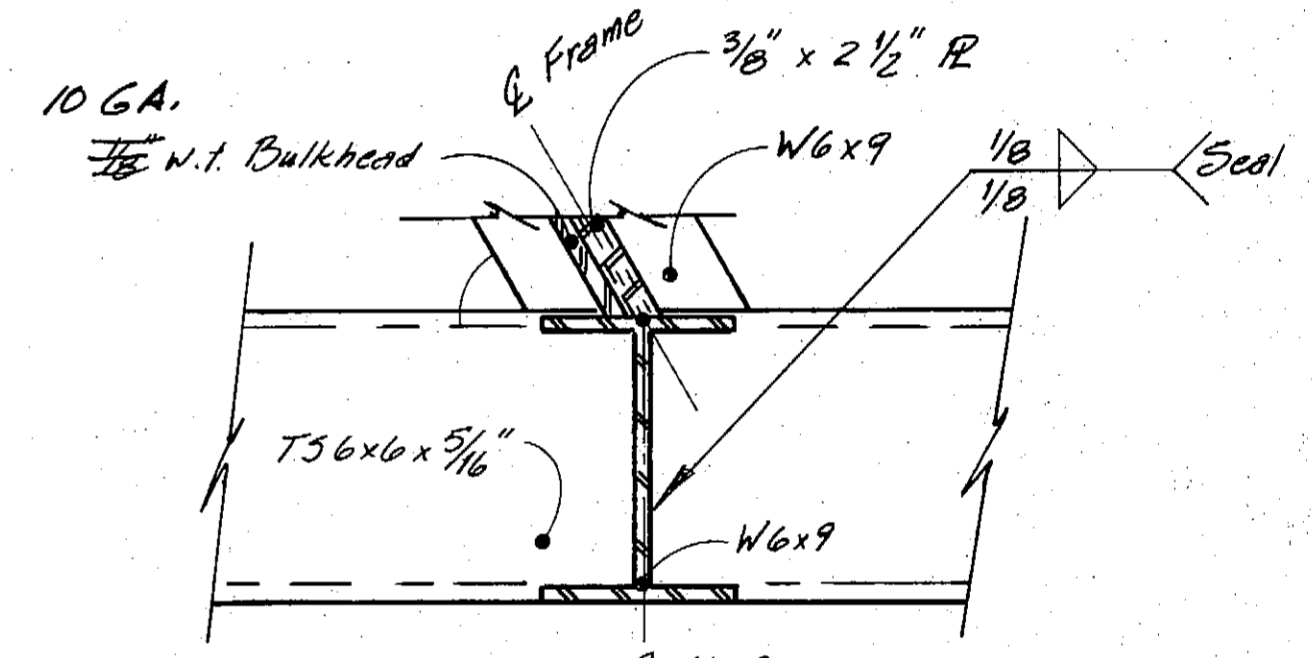
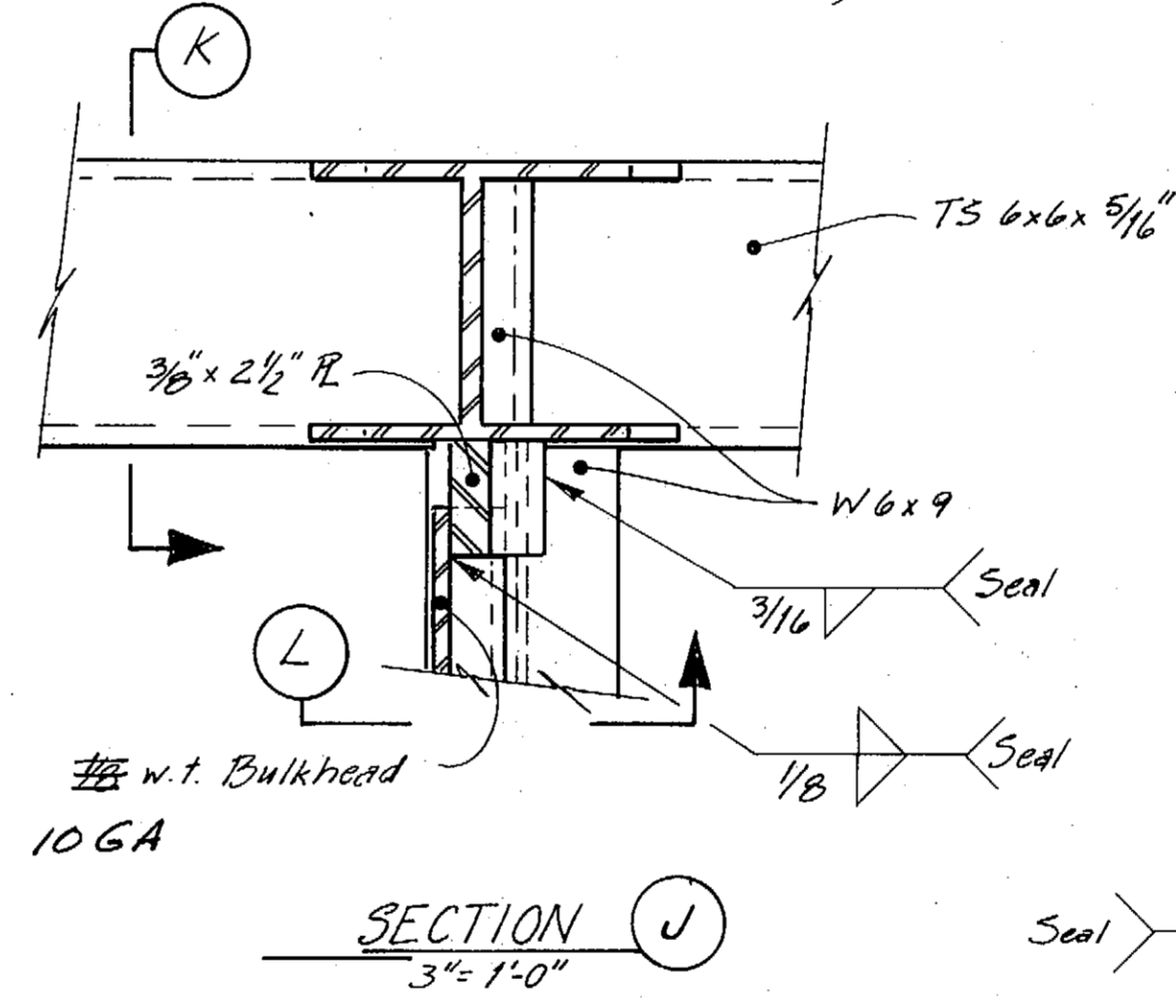
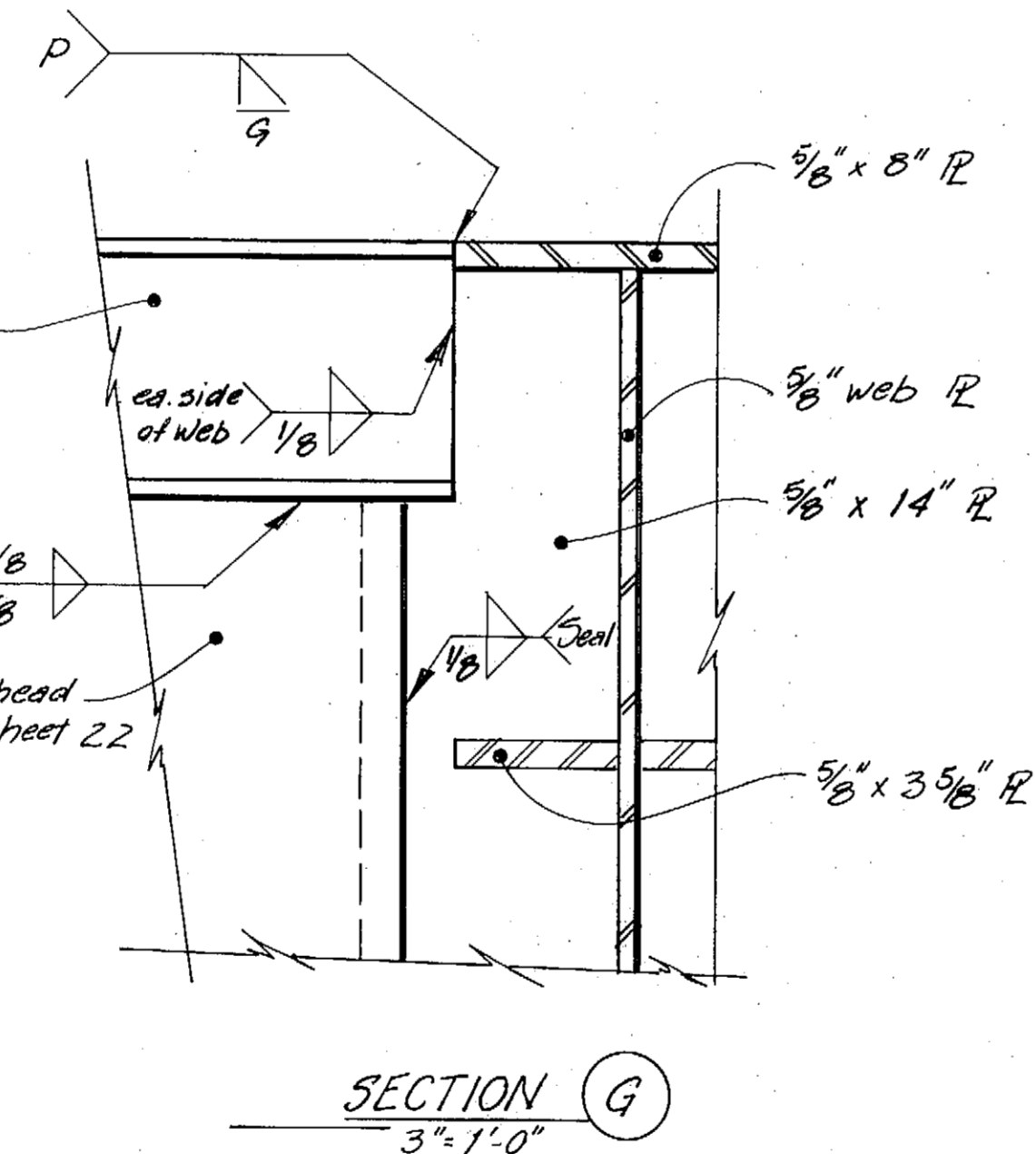
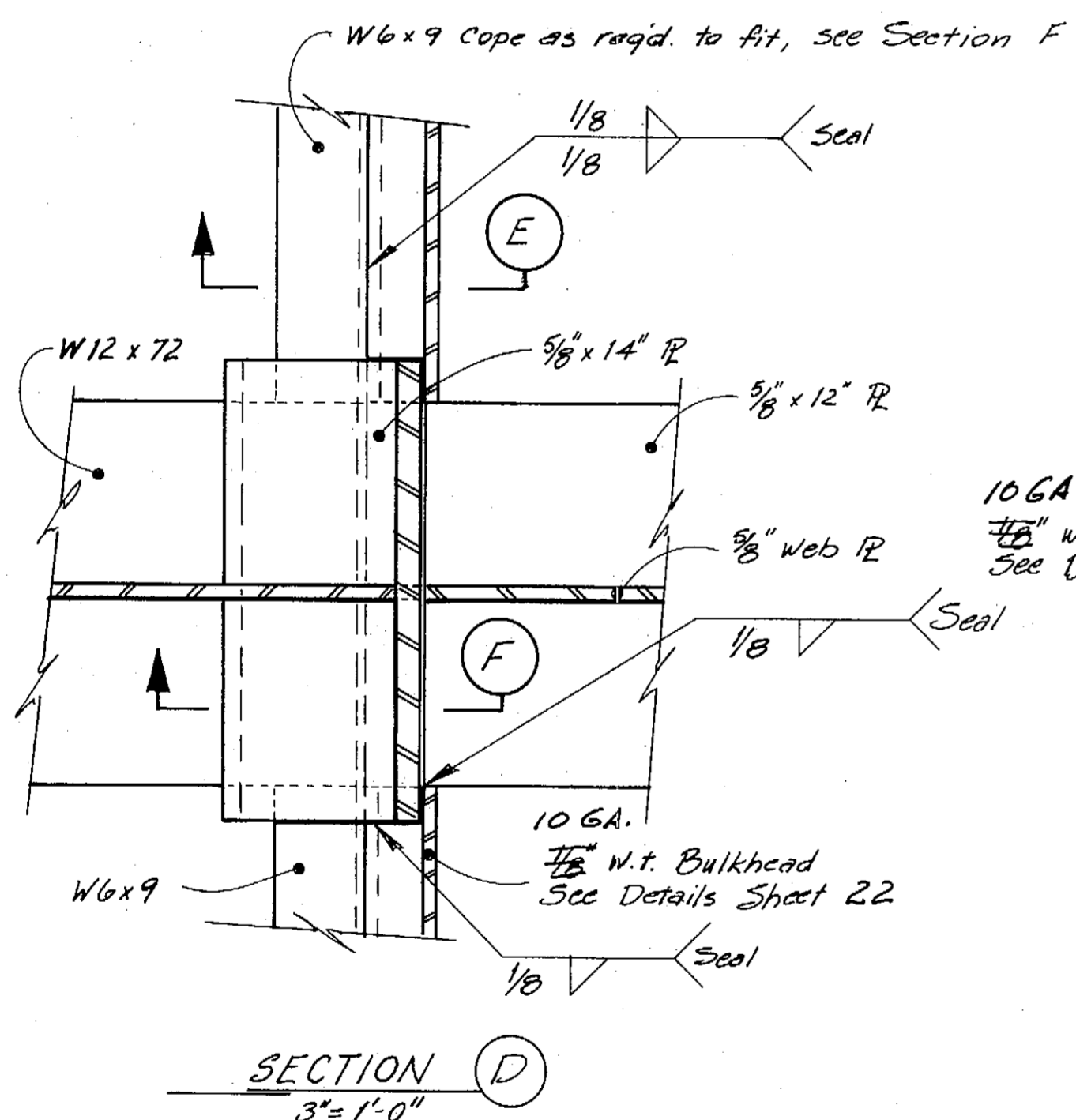
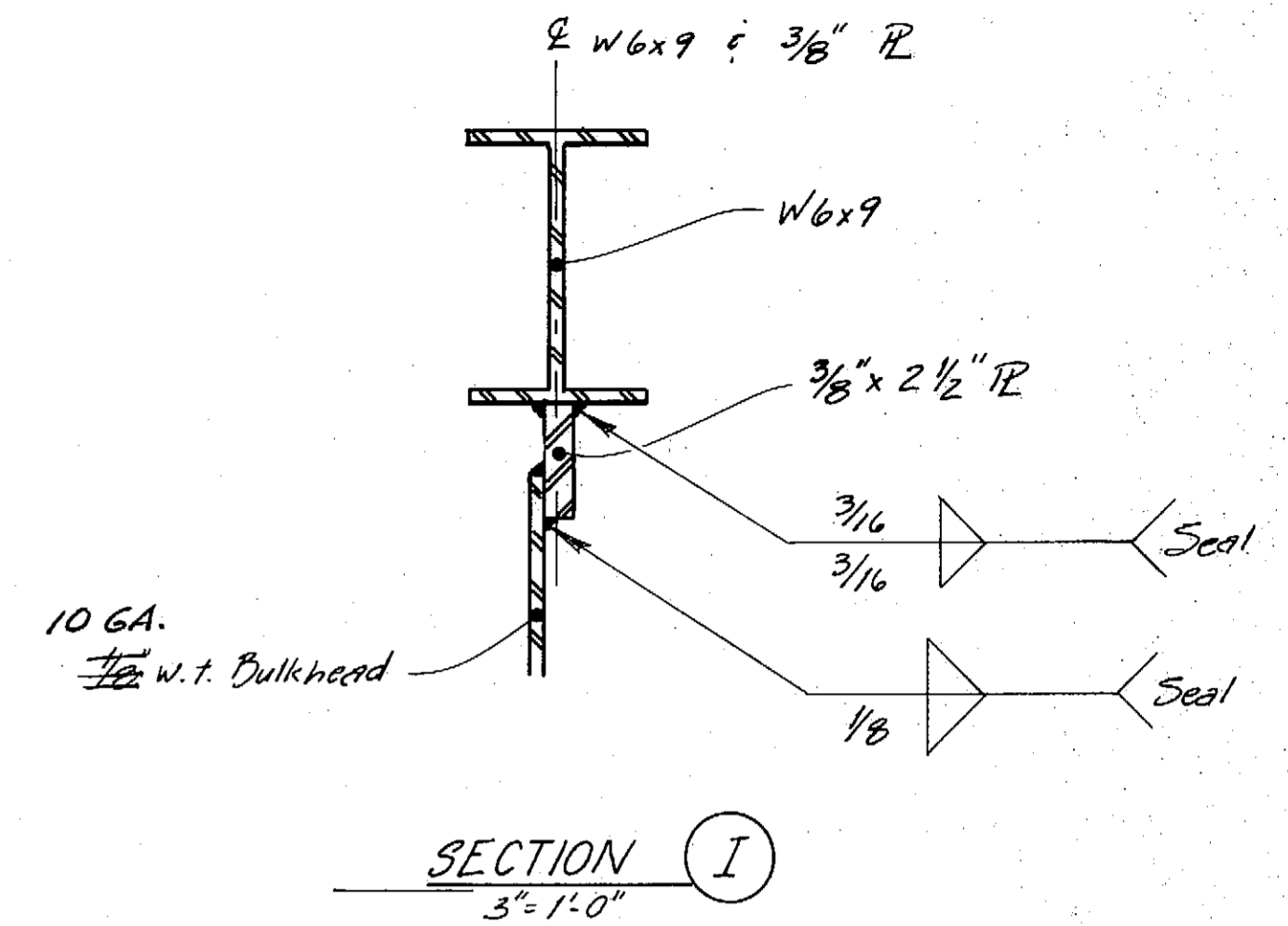
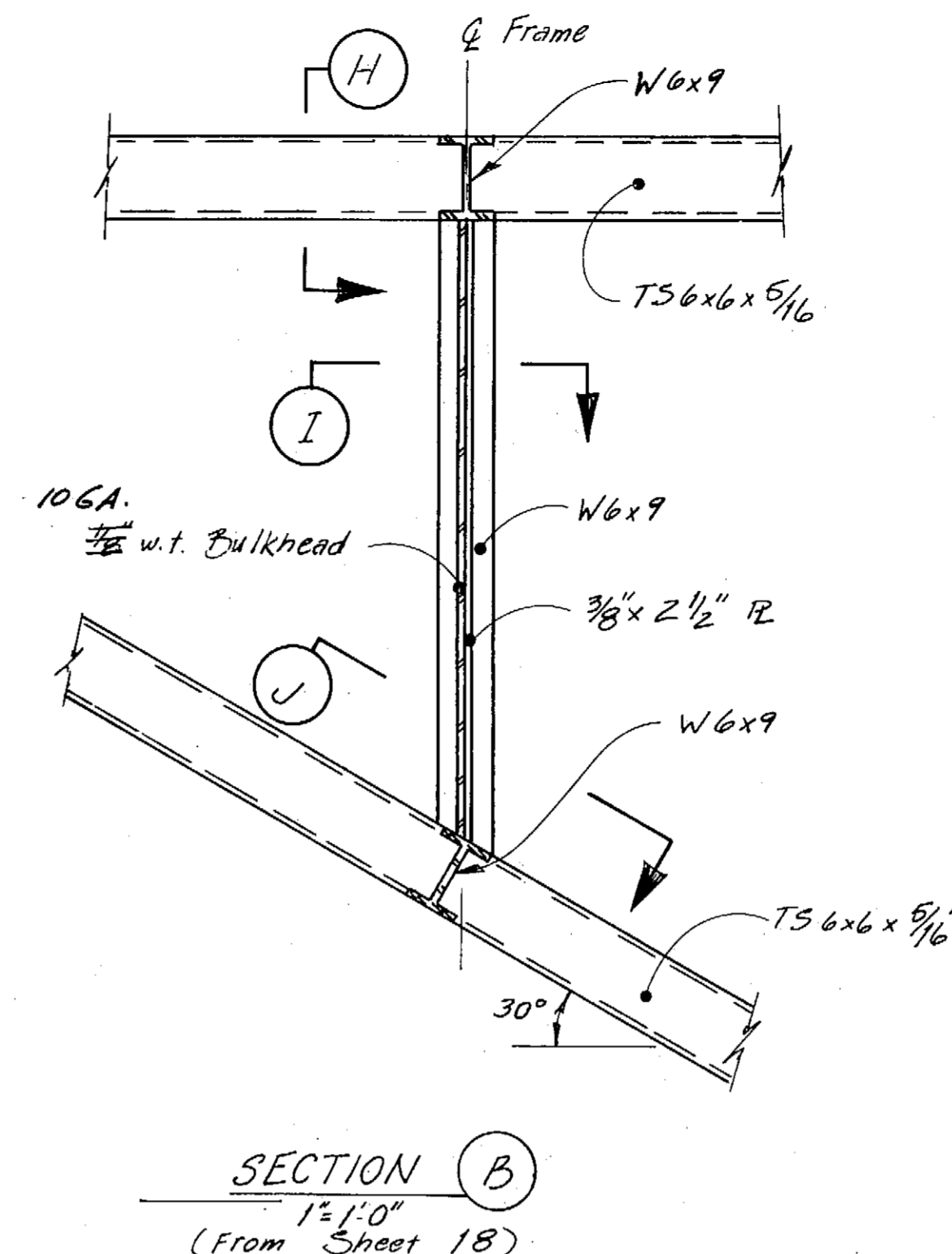
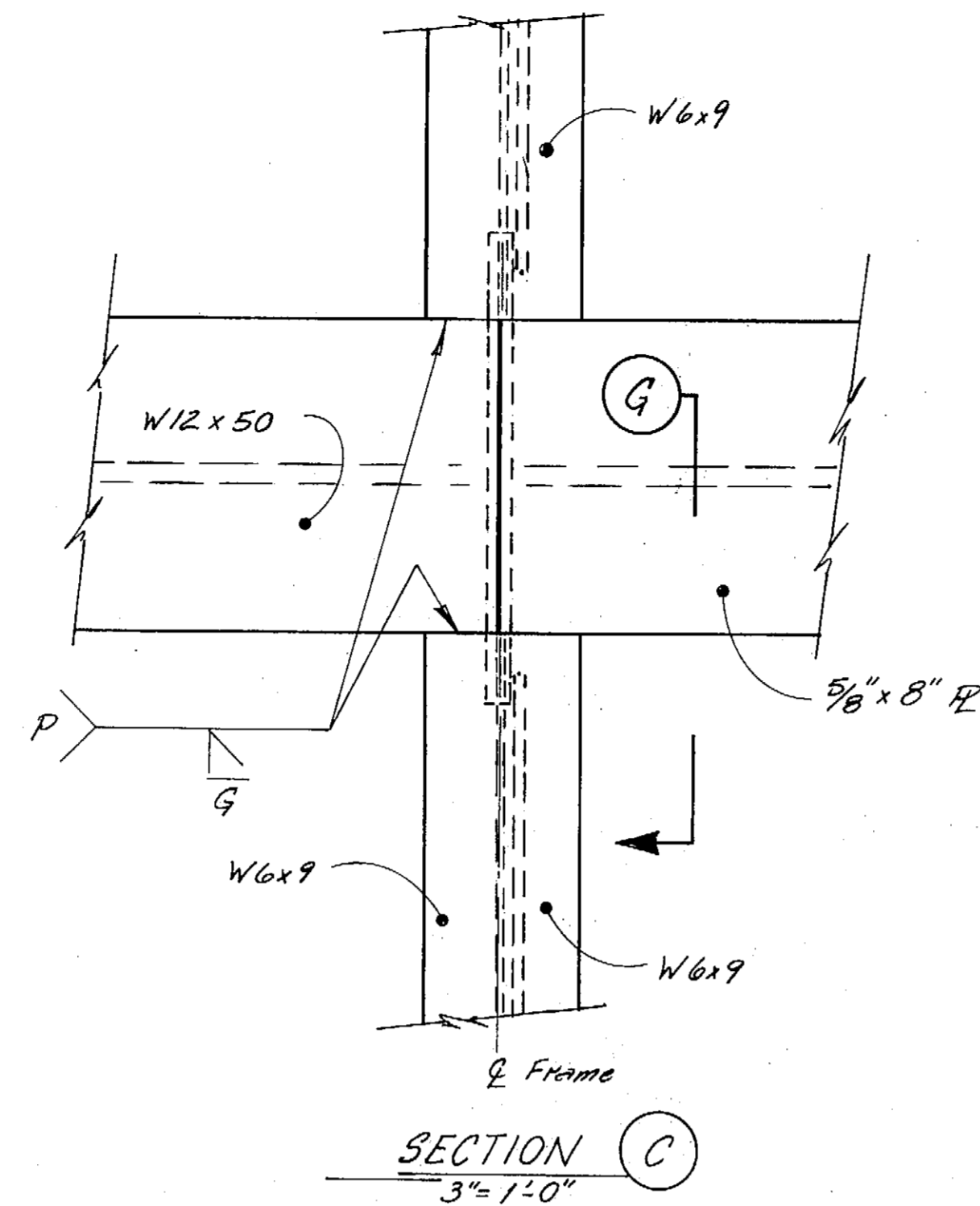
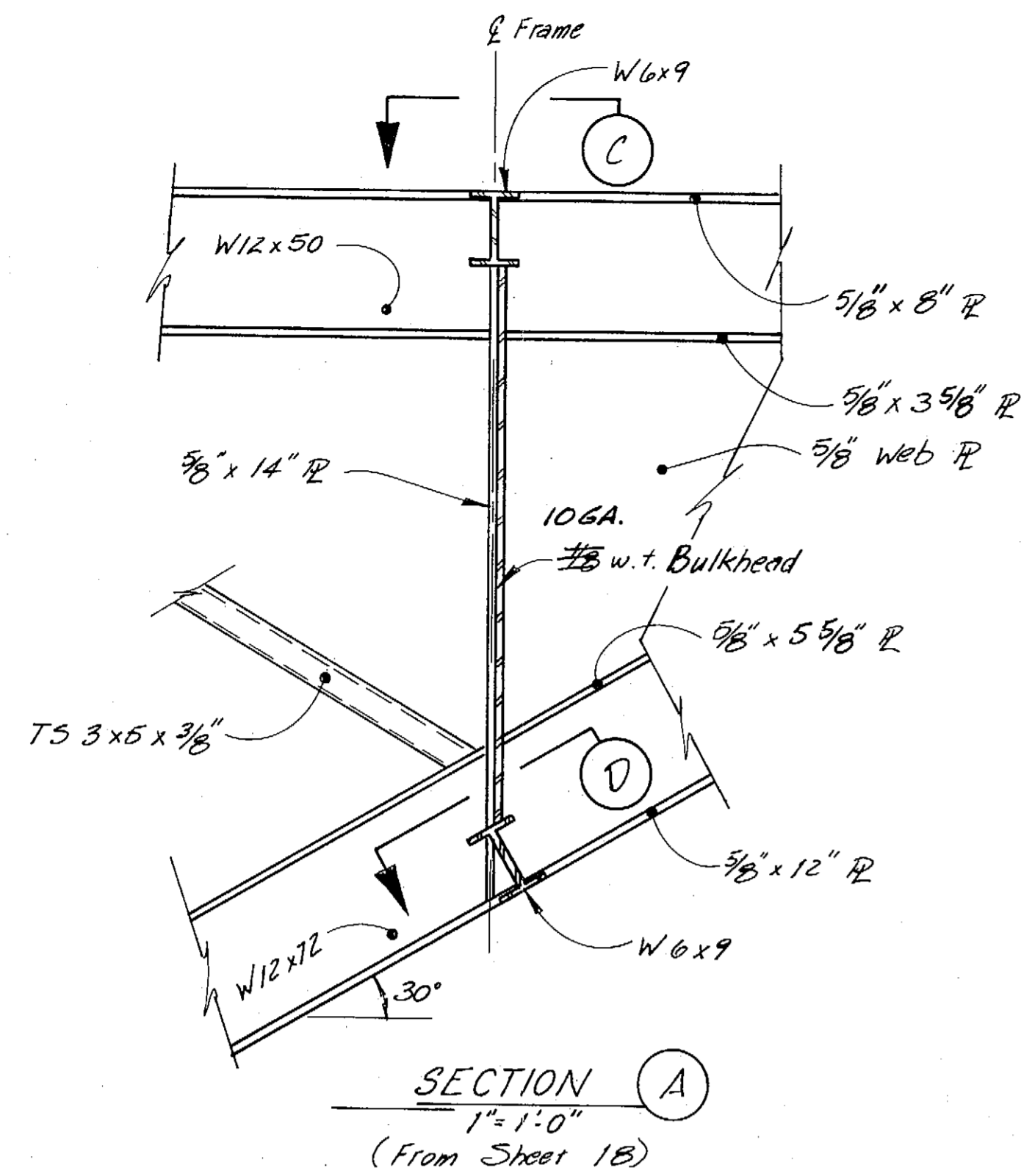
2/25/85



\*Bulkhead type reference

AS-BUILT

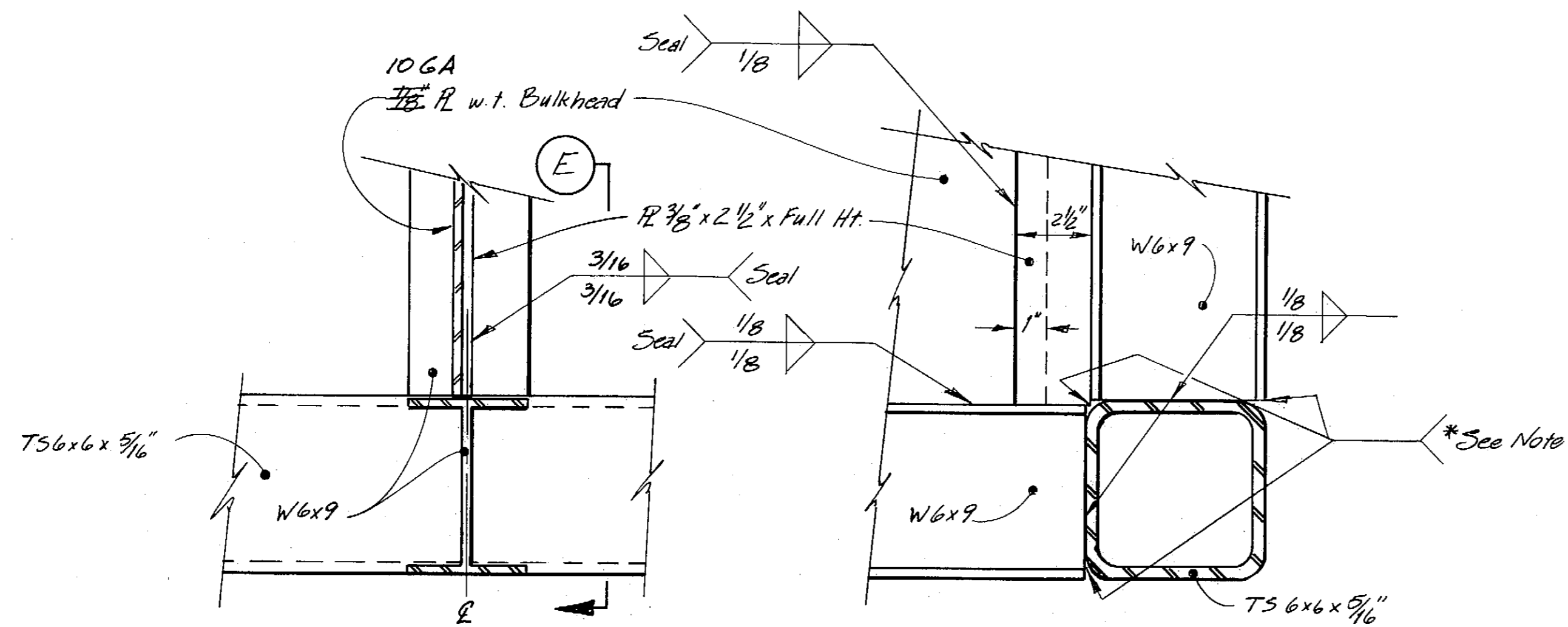
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA			
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Alaska	
TRANSVERSE FRAMES 1-7				
DESIGNED JAL	CHECKED JS	DRAWN JAL	DATE 3-84	
PROJECT NUMBER F095-A(15) & A38502		SHEET 18 OF 62		



\* Note: Size and type of weld to accommodate seal. On exterior, grind flush to insure proper fit up of hull panels and still maintain watertightness. Compartments leaked into each other thru this area. Were not tested in compliance w/ Addendum No. 2

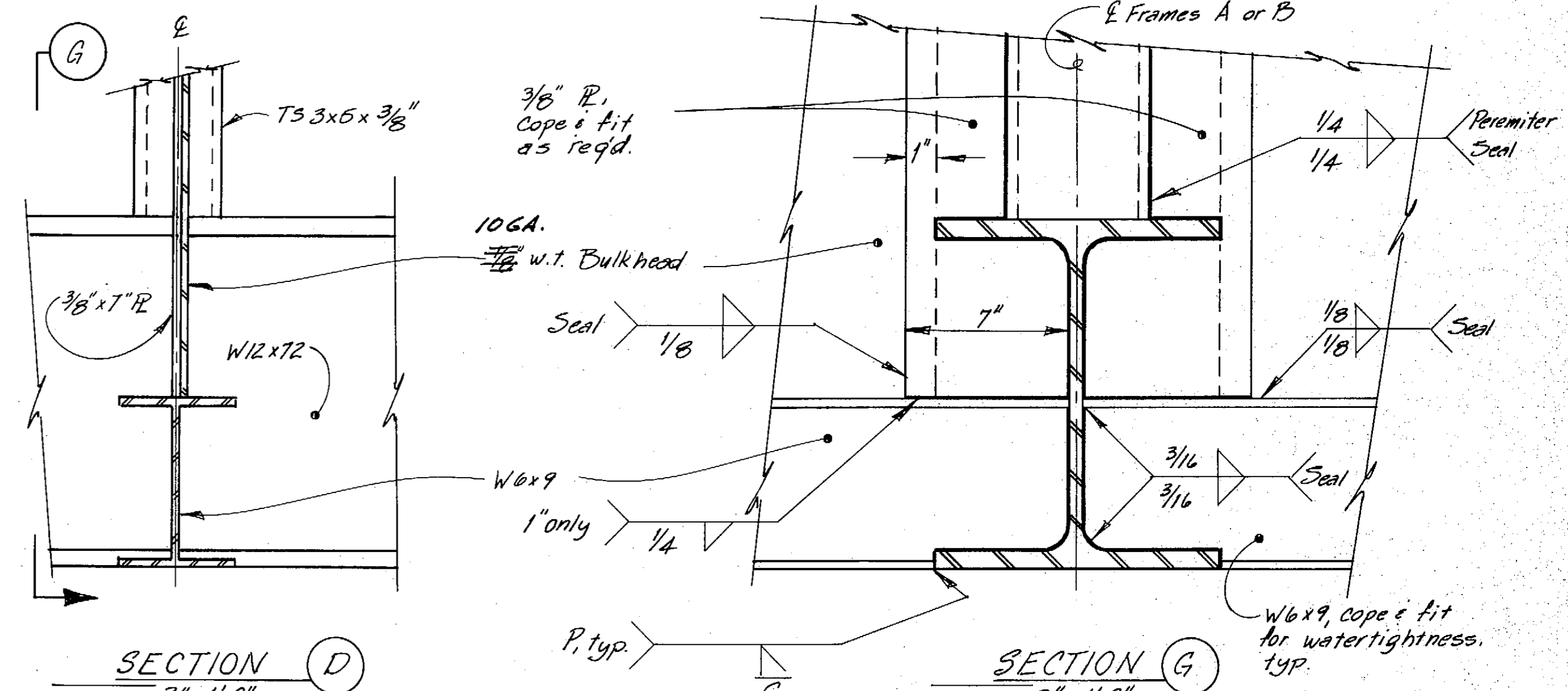
AS-BUILT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg		Alaska	
DETAILS FRAMES 1 : 7			
DESIGNED JAL	CHECKED JS	DRAWN JAL	DATE 3-84
PROJECT NUMBER F-095-A(18) & A38502		SHEET 19 OF 62	
2/25/85			



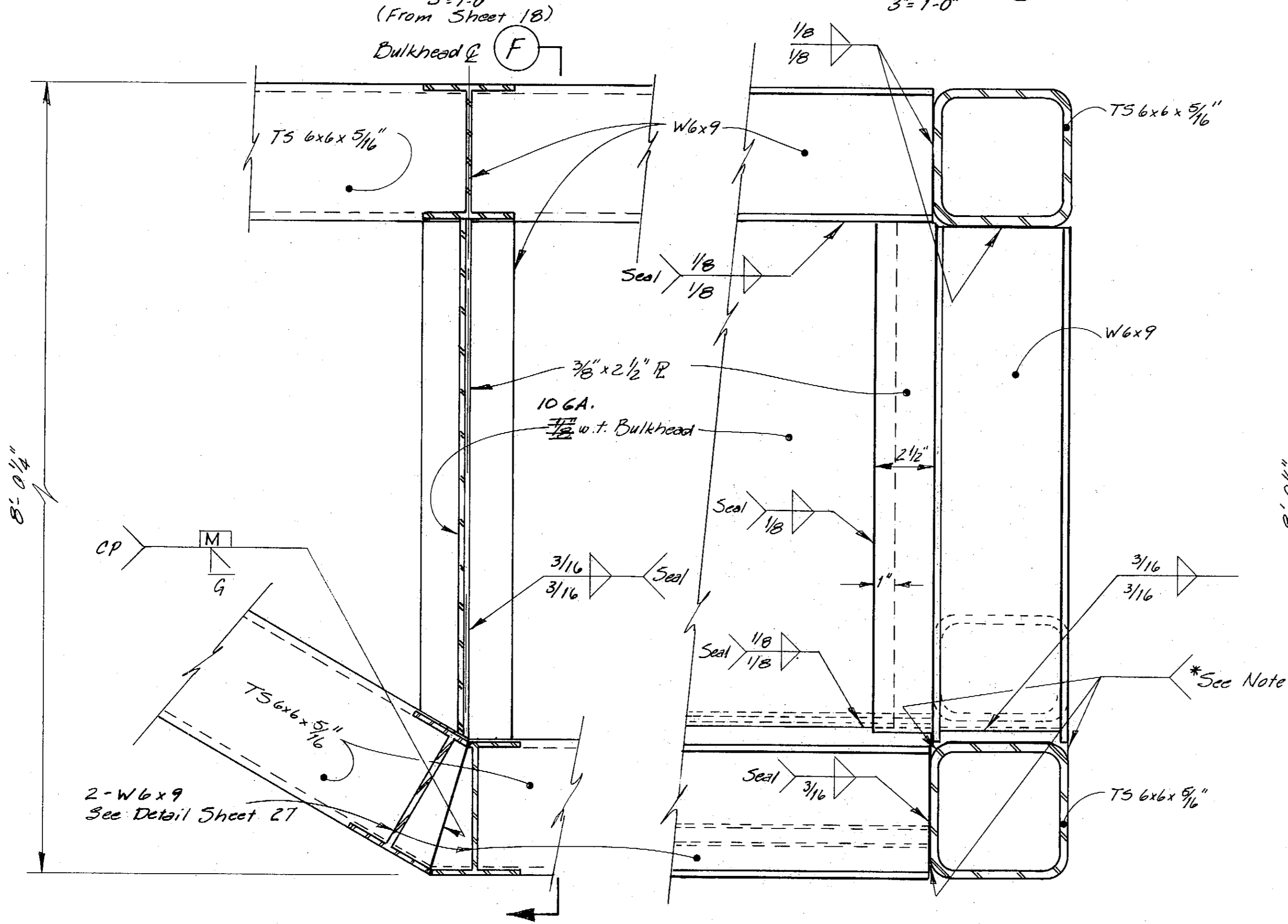
SECTION C  
3"=1'-0"  
(From Sheet 18)

SECTION E  
3"=1'-0"



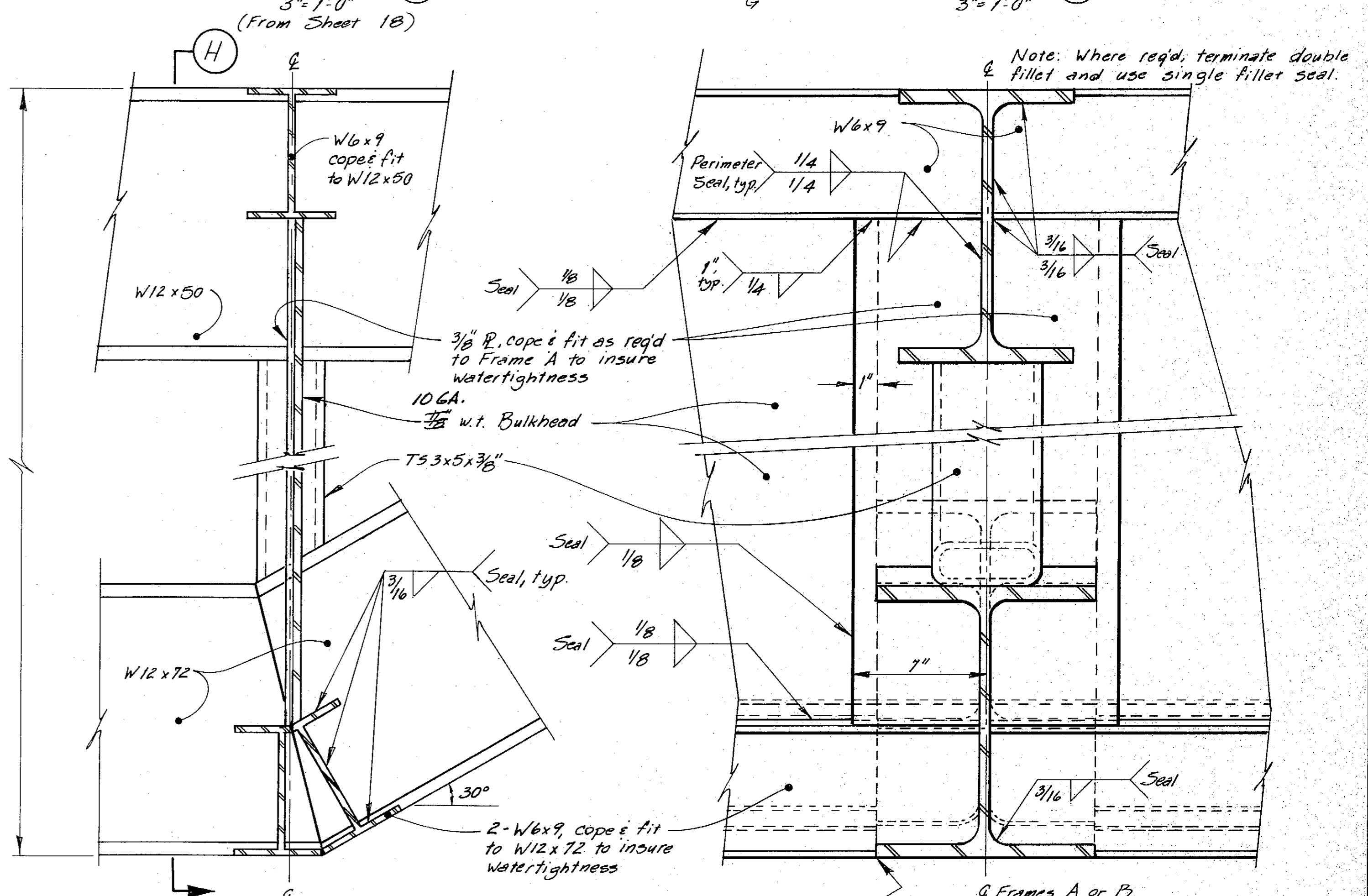
SECTION D  
3"=1'-0"  
(From Sheet 18)

SECTION G  
3"=1'-0"



SECTION A  
3"=1'-0"  
(From Sheet 18)

SECTION F  
3"=1'-0"



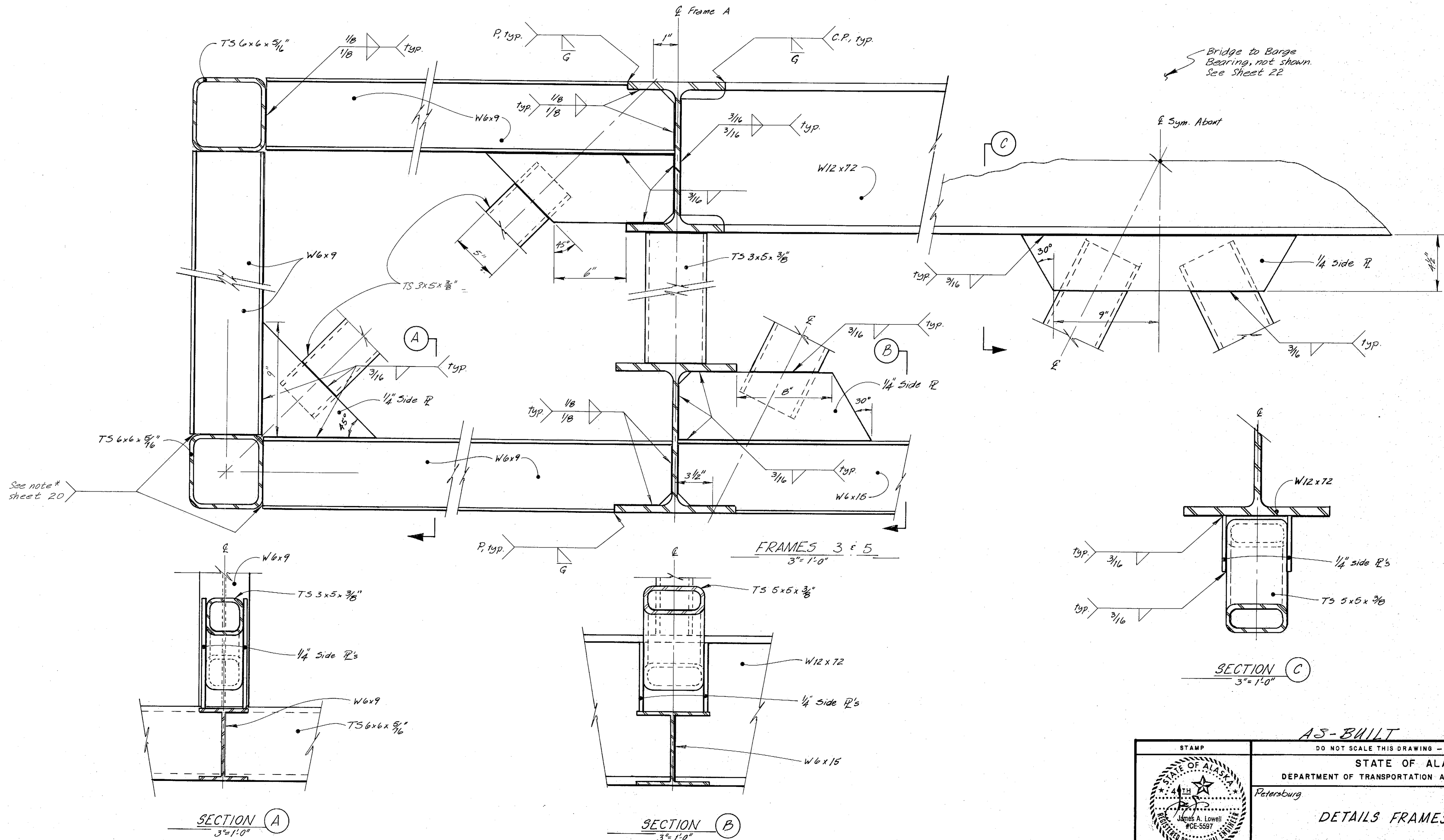
SECTION B  
3"=1'-0"  
(From Sheet 18)

SECTION H  
3"=1'-0"

\* Note: Size and type of weld to accommodate seal. On exterior, grind flush to insure proper fit up at hull panels and still maintain watertightness. Compartments leaked into each other thru this area. Were not tested in compliance w/ addendum No. 2.

AS-BUILT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
DETAILS FRAMES 2, 4 & 6			
DESIGNED JAL	CHECKED JS	DRAWN JAL	DATE 3-84
PROJECT NUMBER F-095-A(15) & A38502		SHEET 20 OF 62	

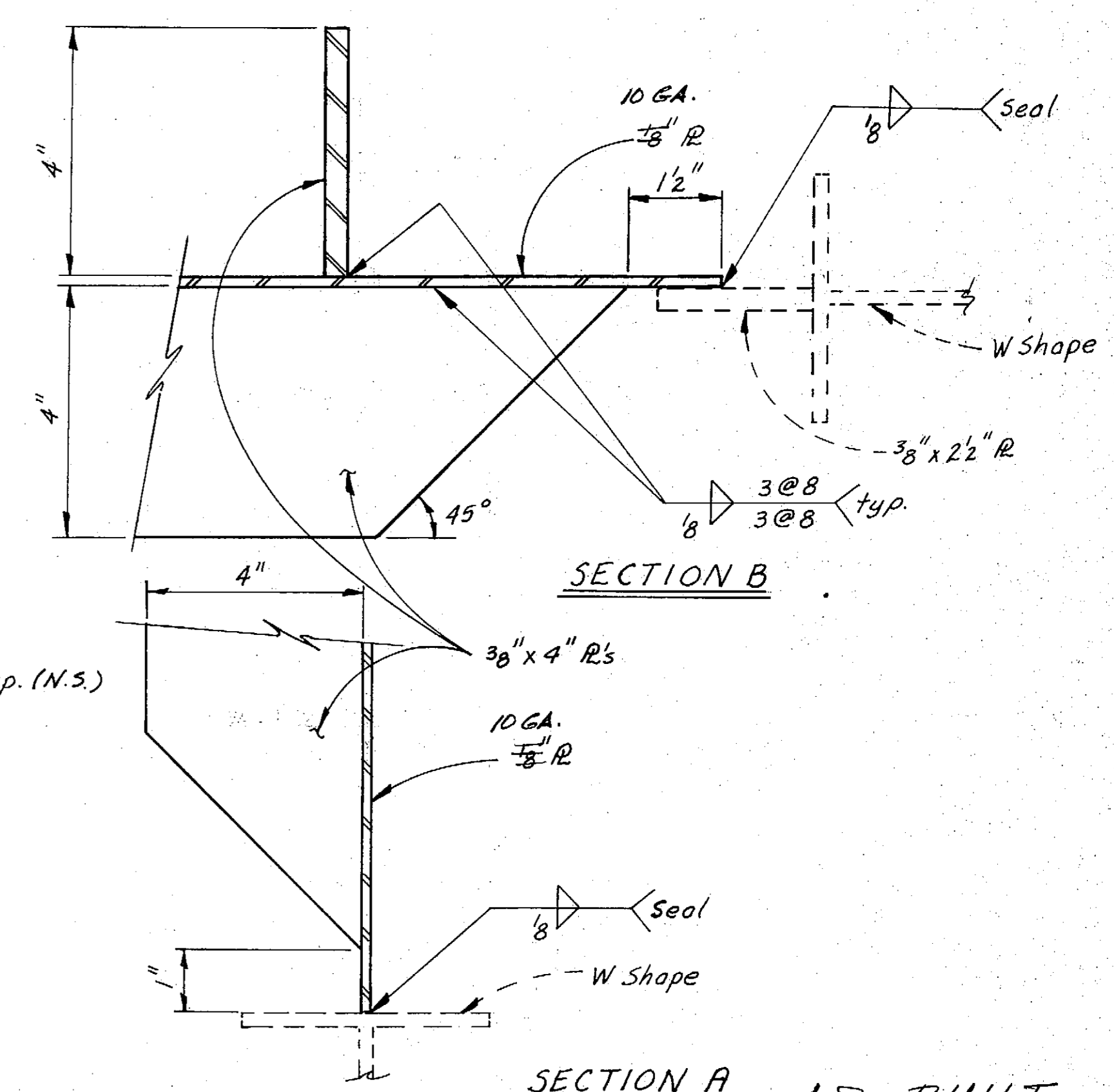
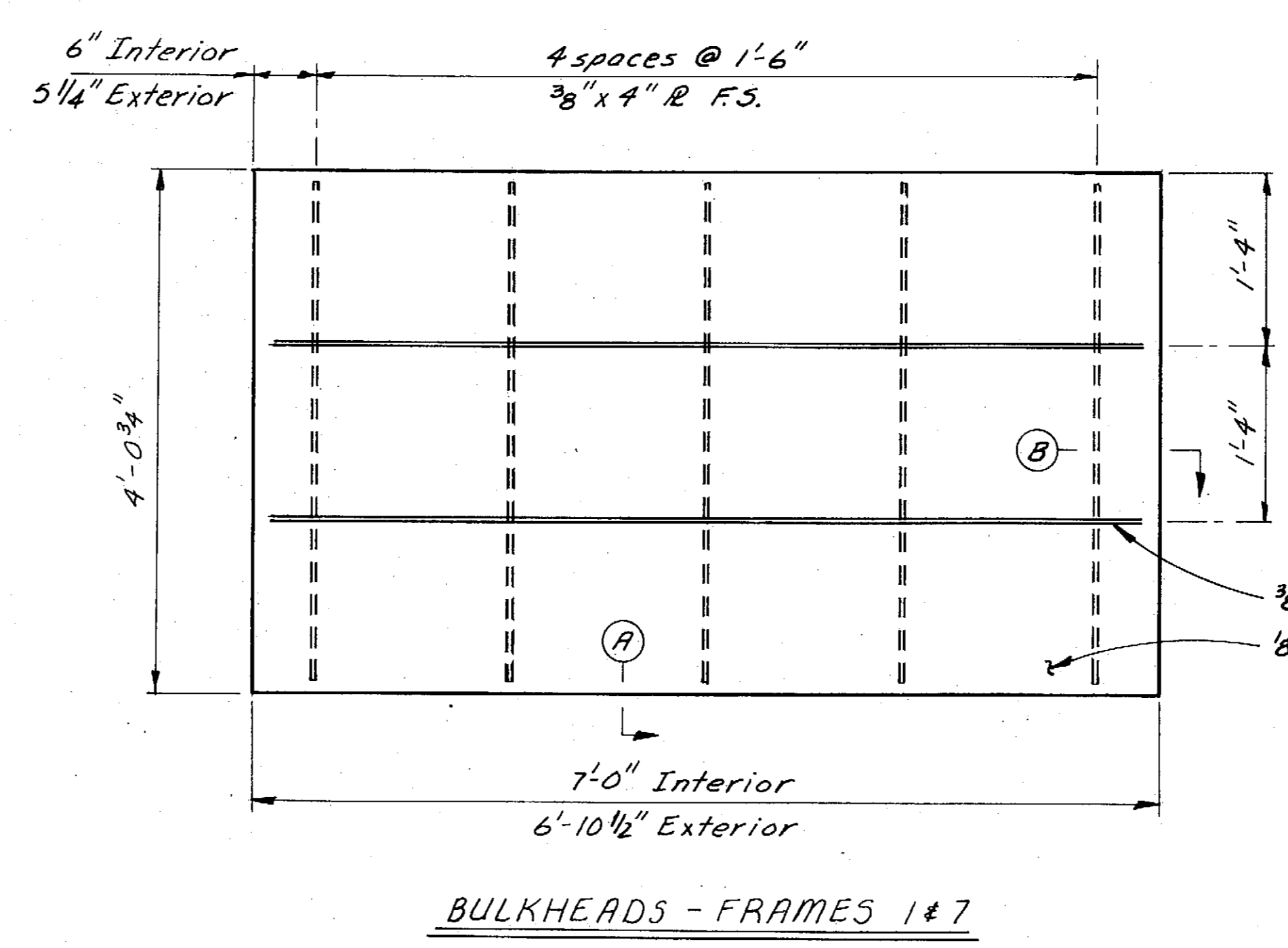
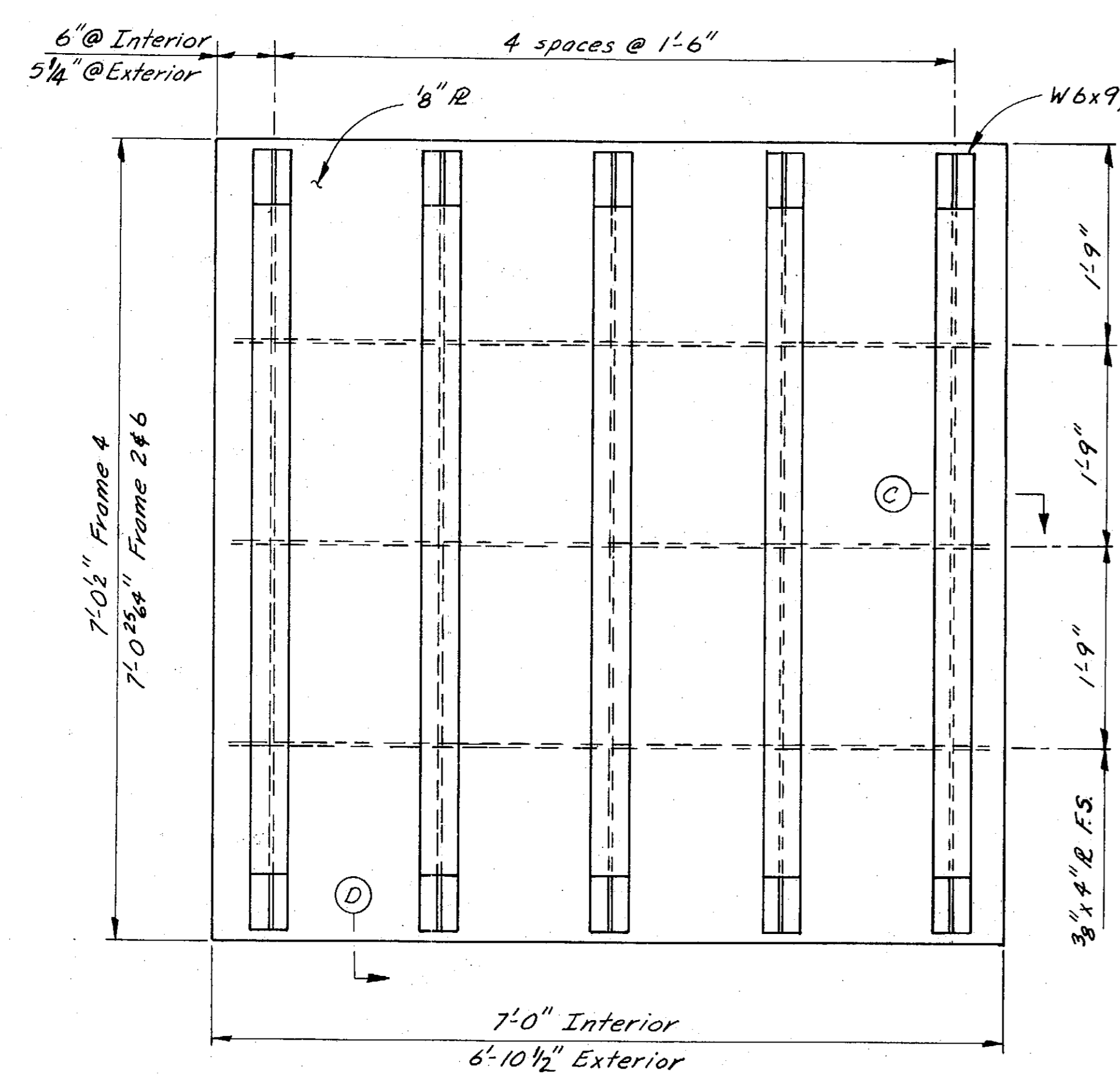
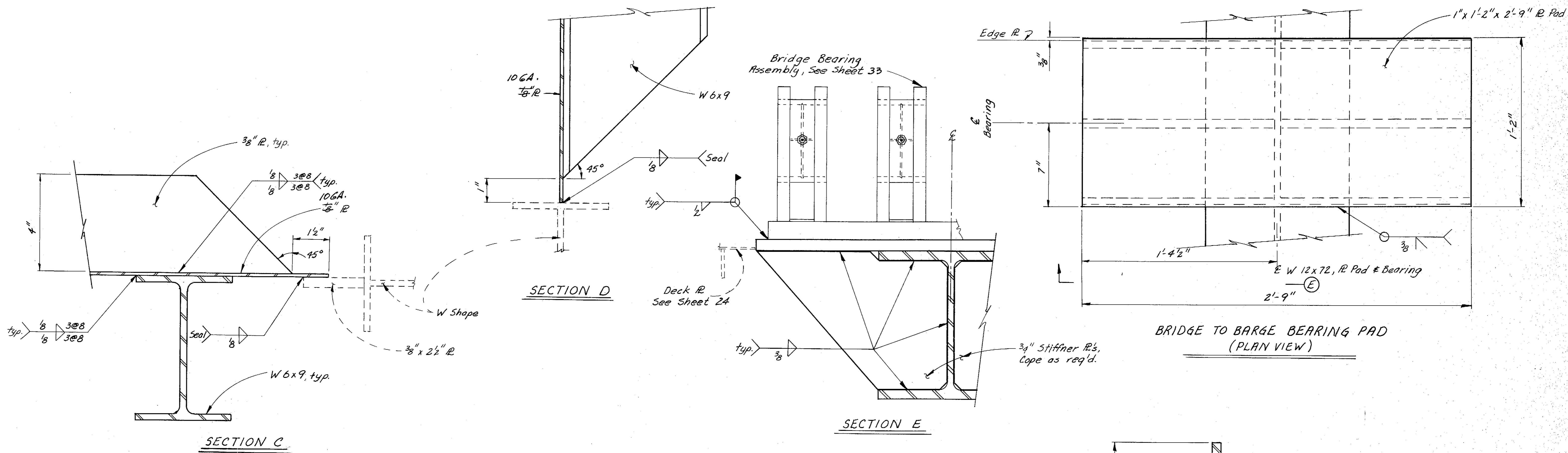


**AS-BUILT**

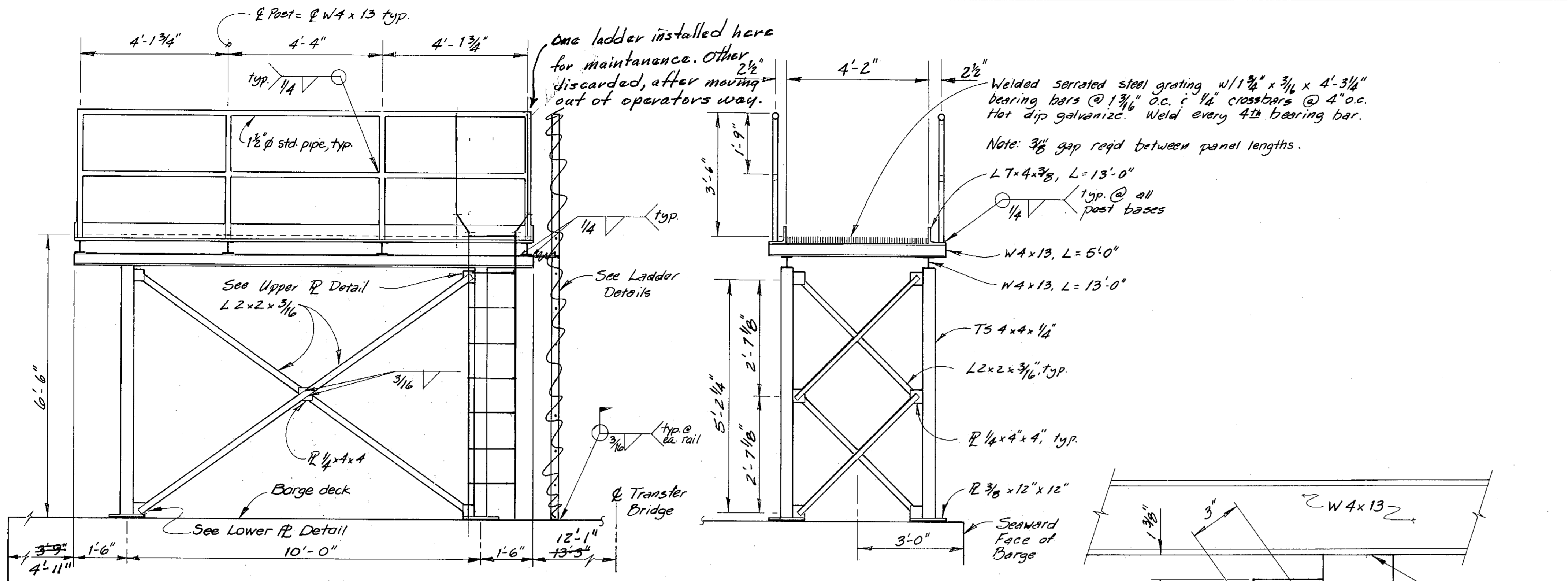
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

	STATE OF ALASKA			
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Alaska	
<b>DETAILS FRAMES 3 &amp; 5</b>				
DESIGNED <u>JAL</u>	CHECKED <u>JS</u>	DRAWN <u>JAL</u>	DATE <u>3-84</u>	
PROJECT NUMBER <u>F-095-4(15) &amp; A38502</u>		SHEET <u>21</u> OF <u>62</u>		

2/25/85



	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
<b>WATERTIGHT BULKHEADS &amp; BRIDGE BEARING DETAILS</b>				
DESIGNED _____	CHECKED _____	DRAWN _____	DATE _____	
PROJECT NUMBER <b>A38502</b>		SHEET <b>22</b> OF <b>62</b>		



**GANGWAY PLATFORM**  
No Scale

Trimmed 3" to clear hood interference.

**TOP PANELS (PLAN VIEW)**

T1	T2	T3	T4	(B 27) T4	T3	T2	T5
T6	T7	T8	T9	T9	T8	T7	T6
T5	T10	T11	T4	(D 27) T4	T11	T10	T1

**BOTTOM PANELS (PLAN VIEW)**

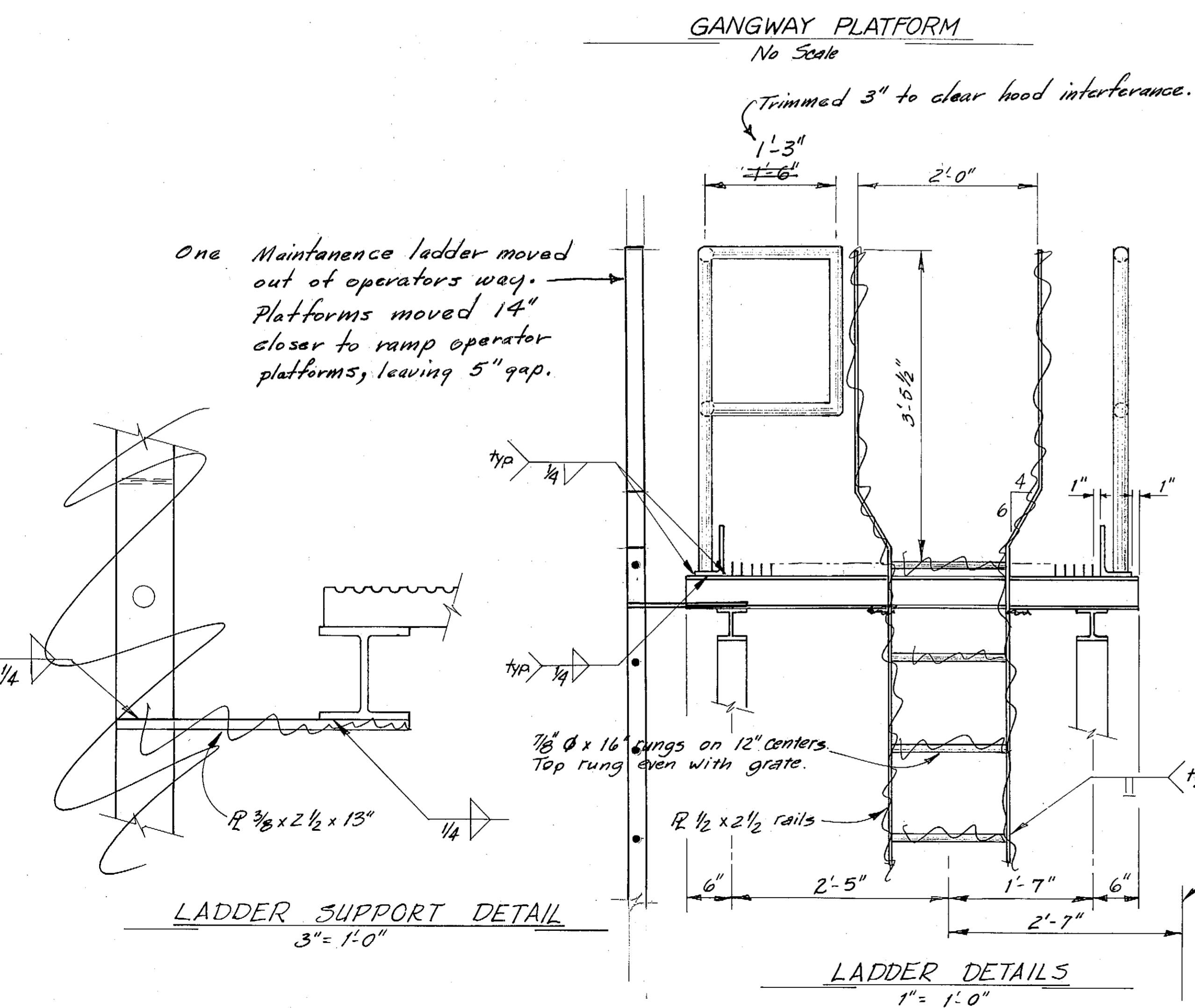
B1	B2	B3	(B 27) B4	B4	B5	B6	B7
B8	B9	B10	B11	(B 27) B11	B10	B9	B8
B7	B6	B5	B4	B4	B3	B2	B1

**SIDE PANELS (ELEVATION VIEW OF HALF OF ONE SIDE)**

S1 (4 Reg'd)	S2 (4 Reg'd)	S3 (4 Reg'd)	S4 (4 Reg'd)
-----------------	-----------------	-----------------	-----------------

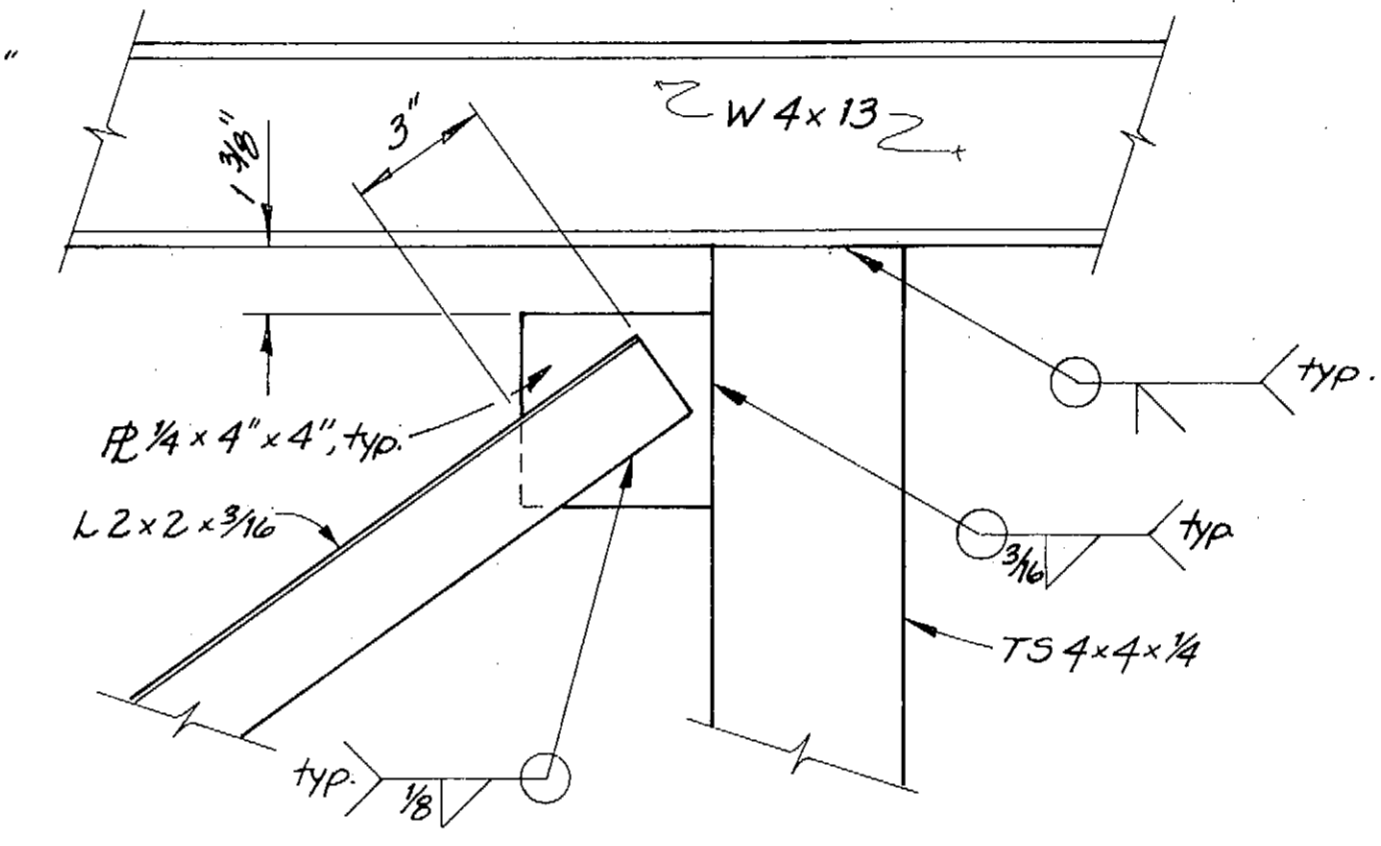
**SIDE PANELS**  
(ELEVATION VIEW OF HALF OF ONE SIDE)

Note: Platform to be galvanized after fabrication.

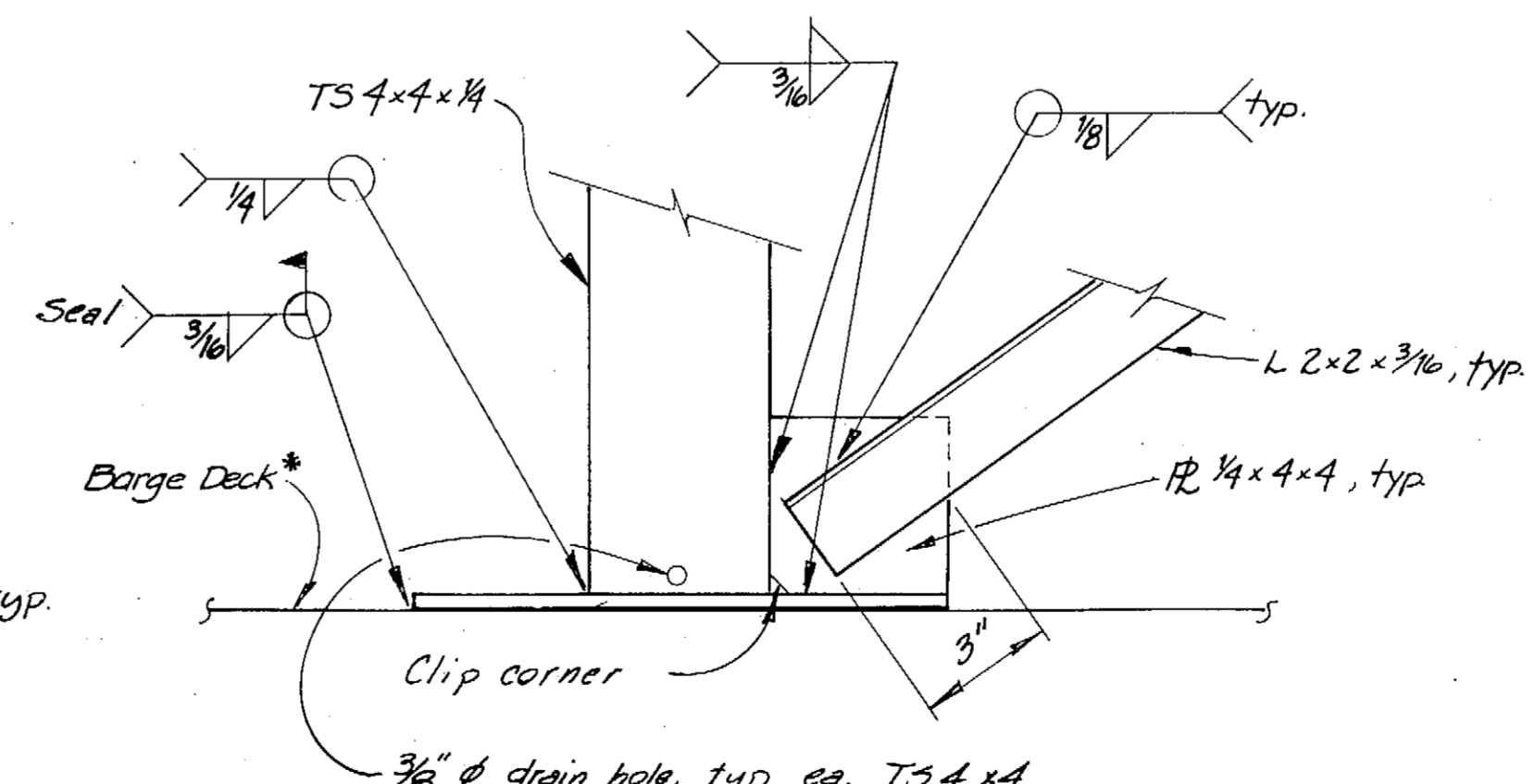


**LADDER SUPPORT DETAIL**  
3" = 1'-0"

**LADDER DETAILS**  
1" = 1'-0"



**UPPER R DETAIL**  
1/4" = 1'-0"



**LOWER R DETAIL**  
1/4" = 1'-0"

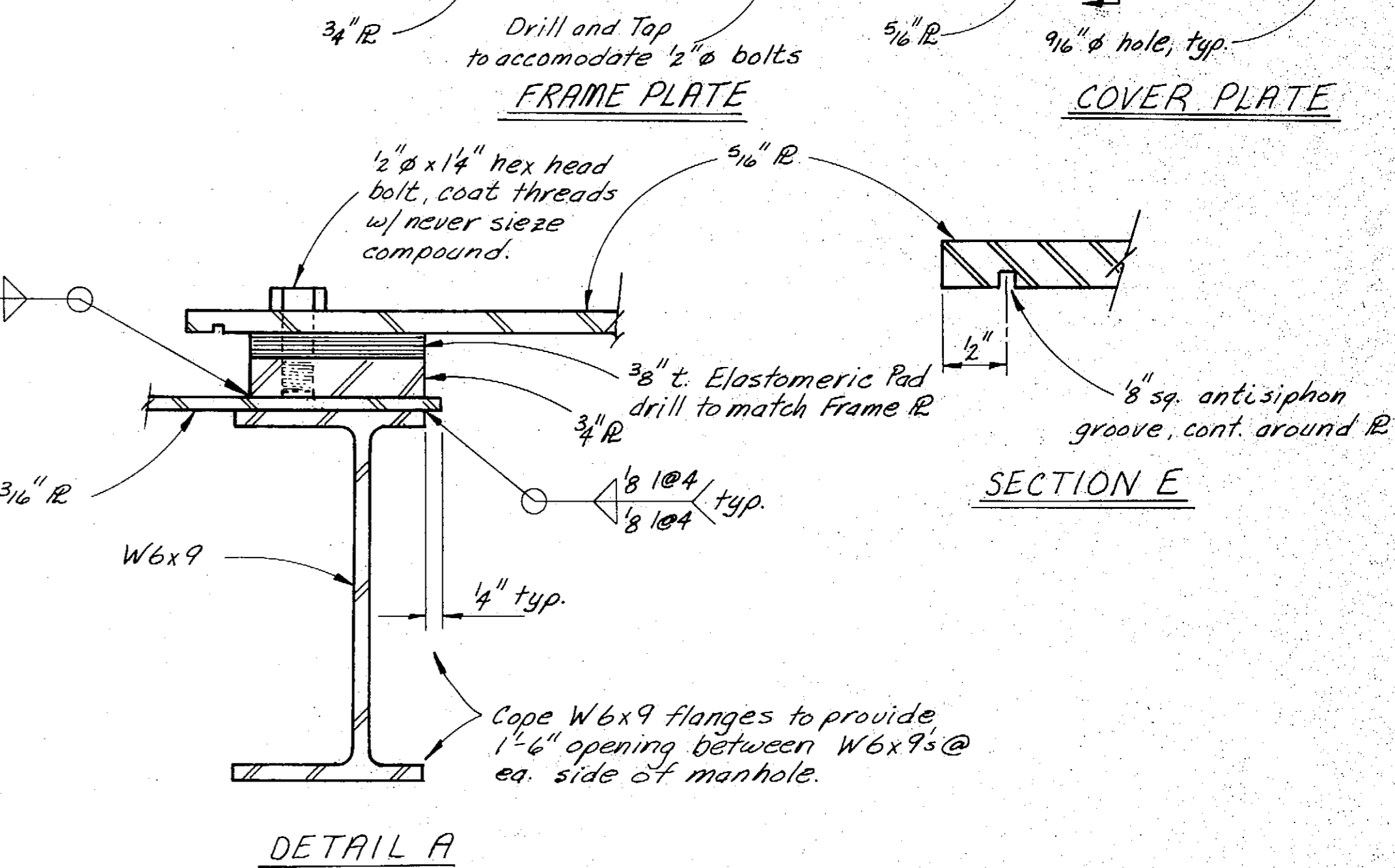
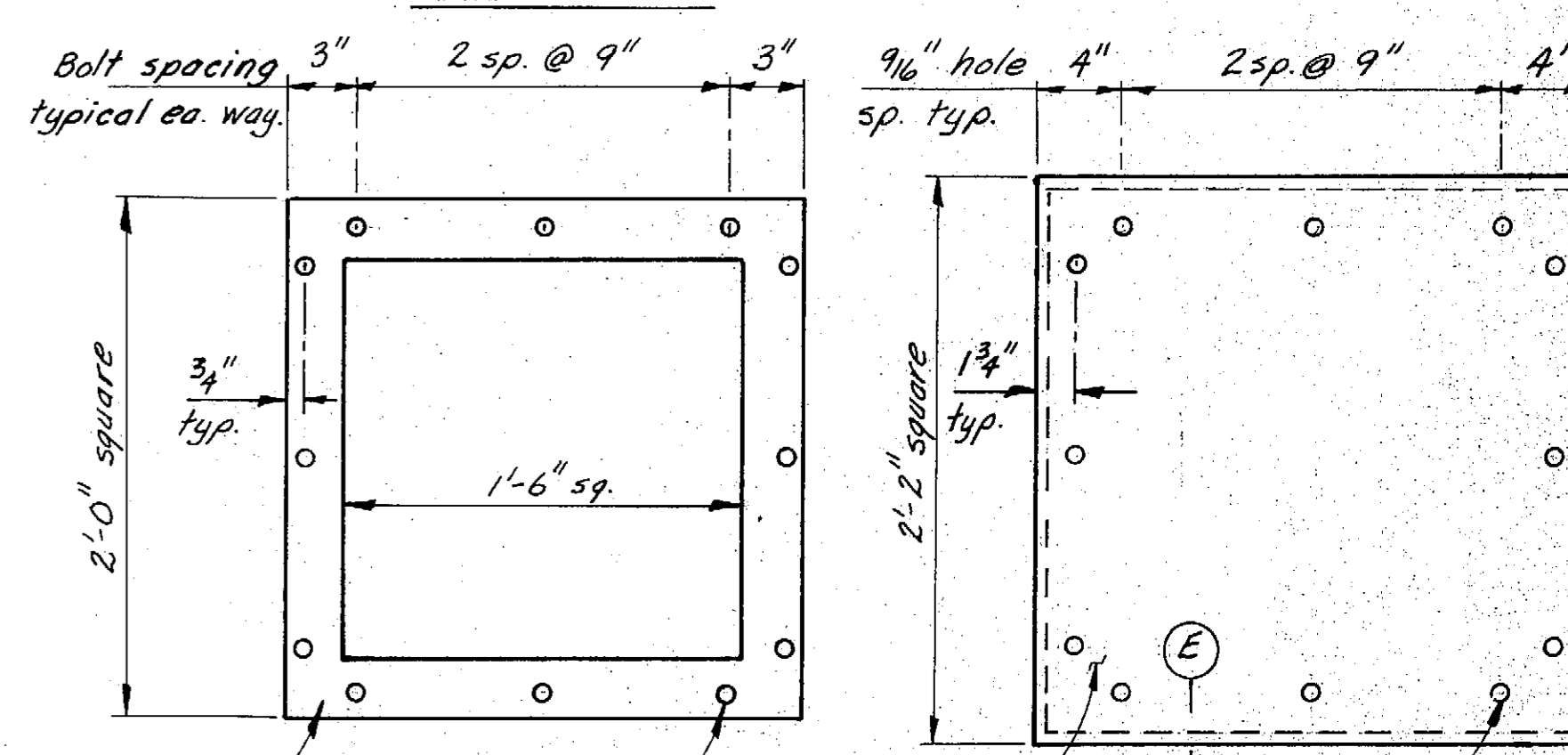
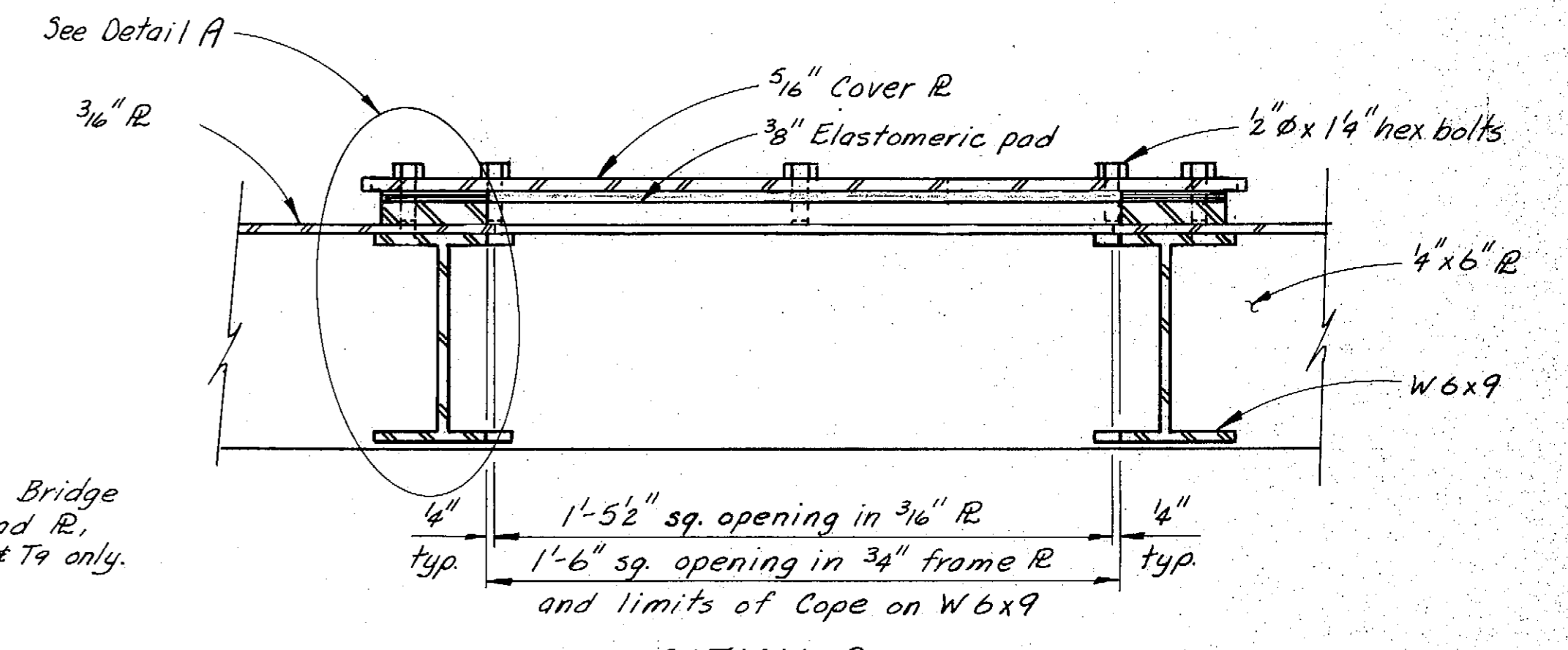
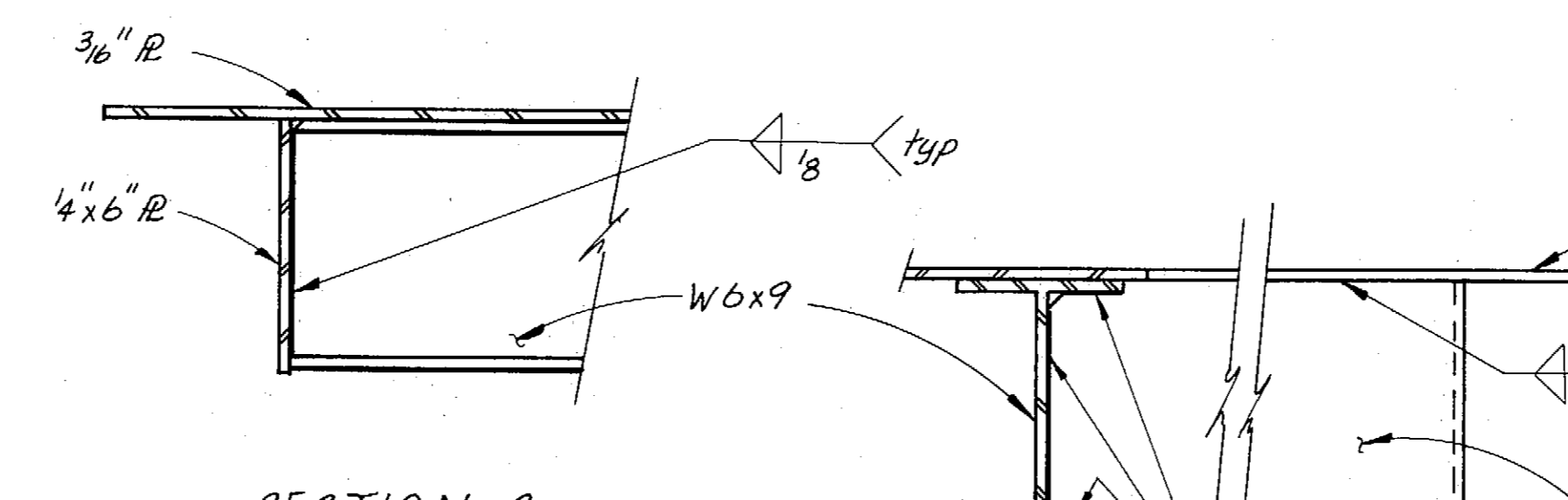
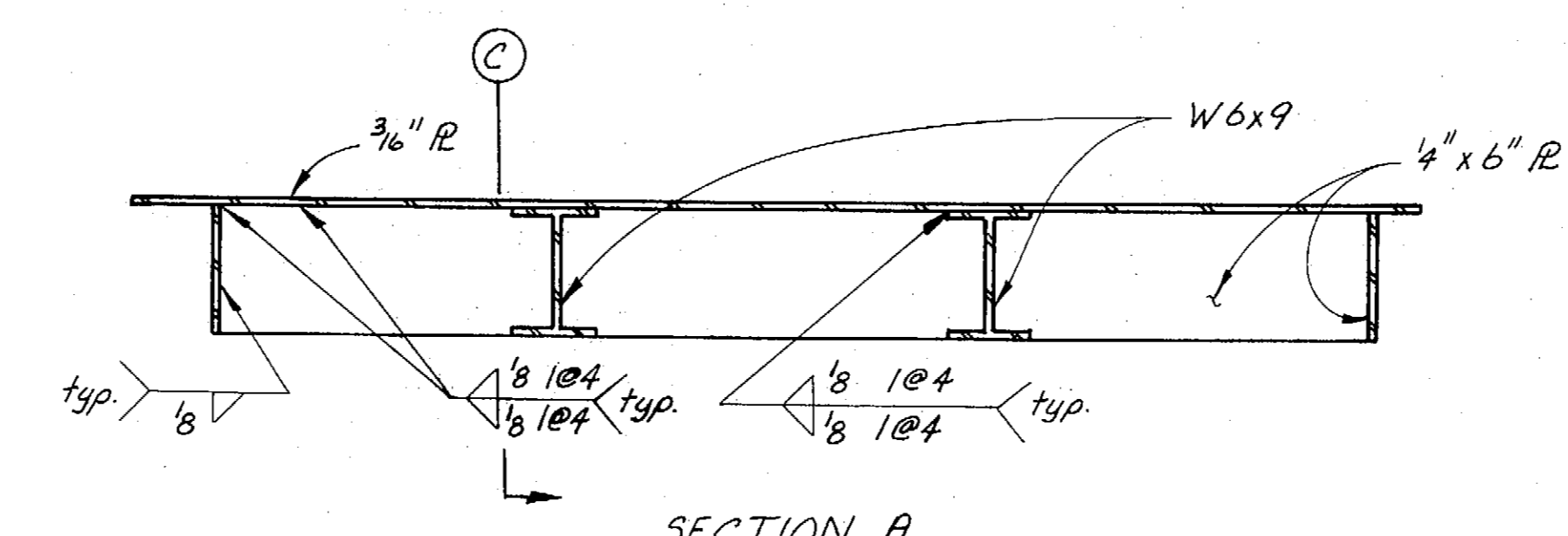
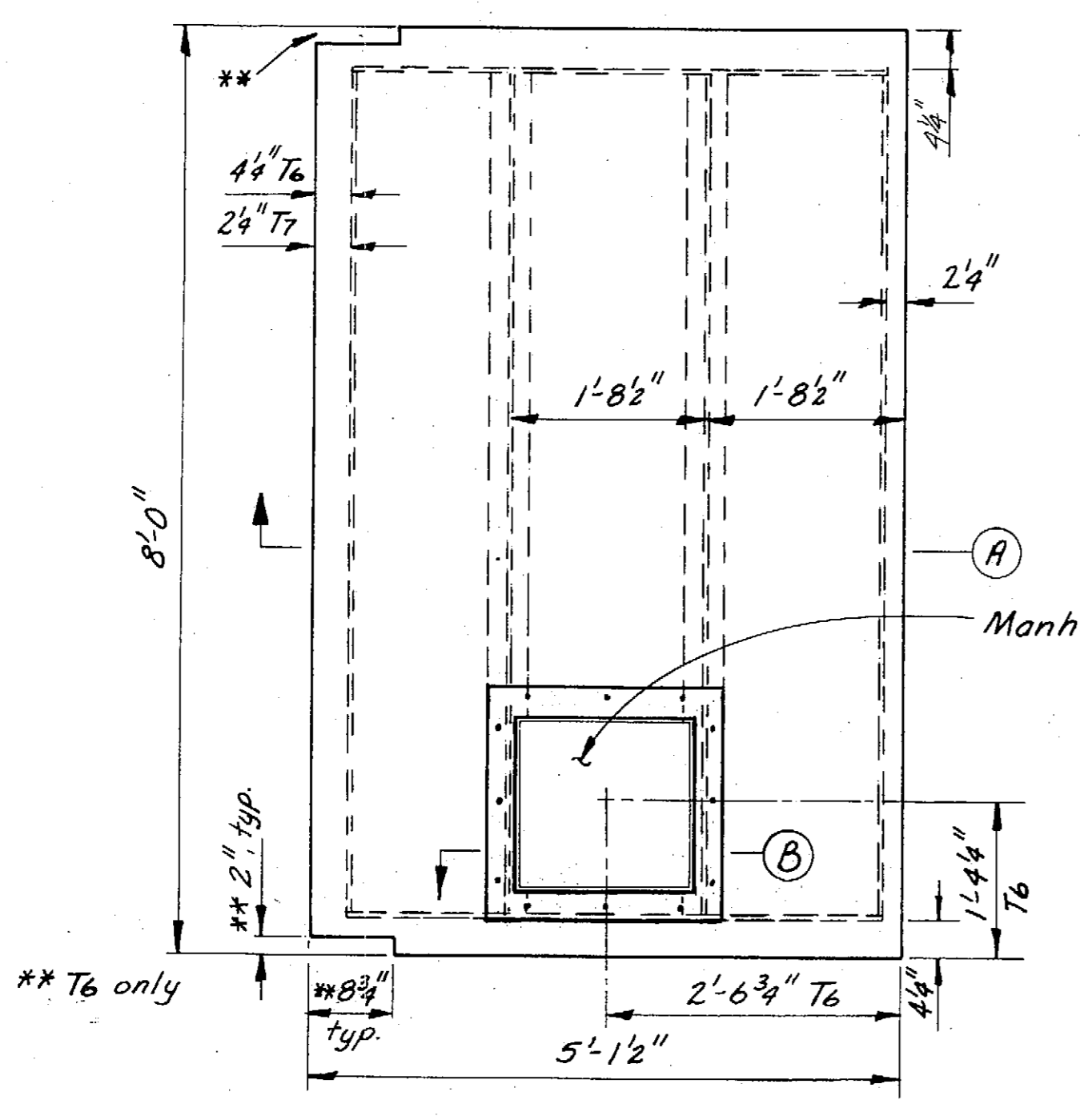
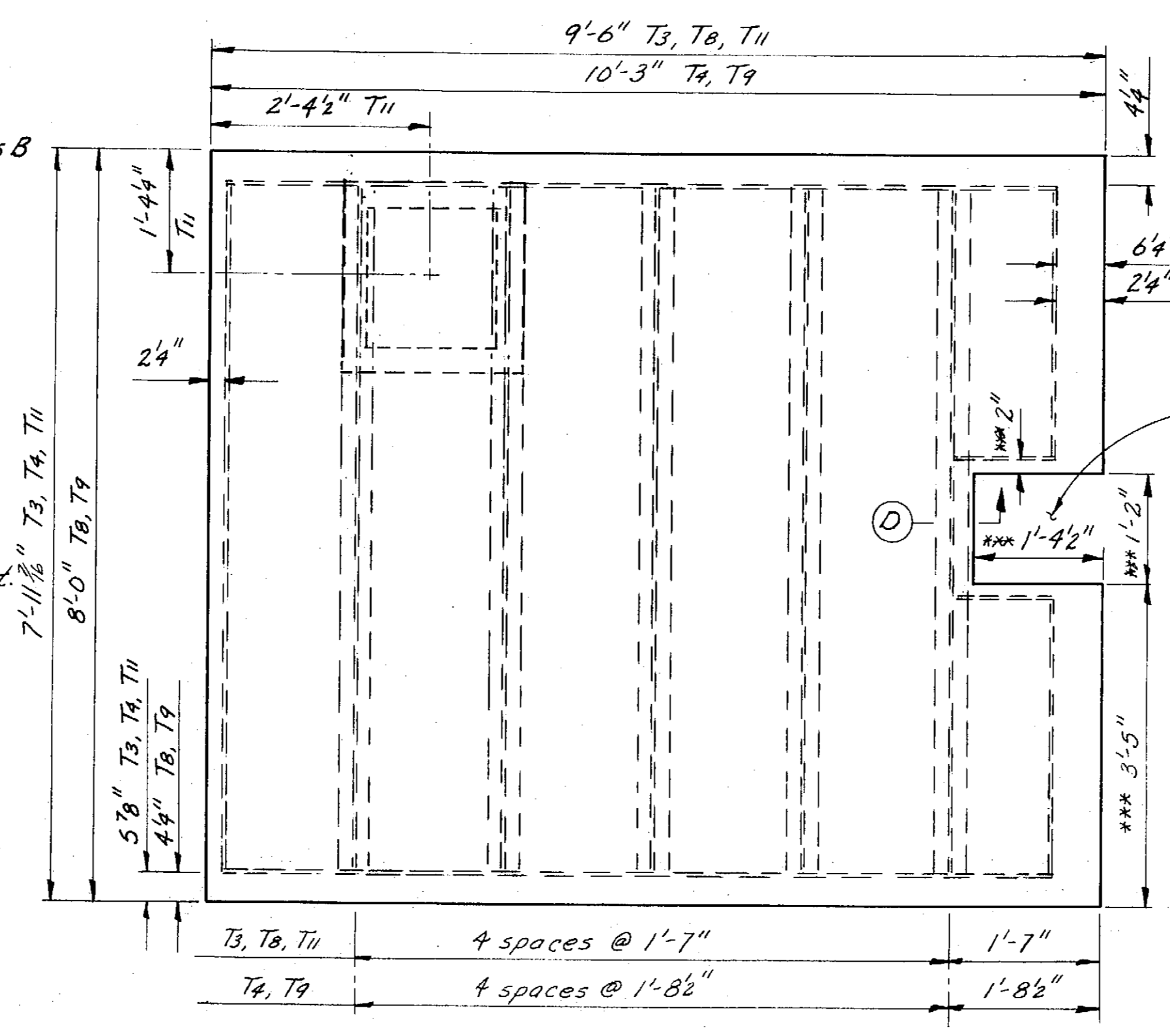
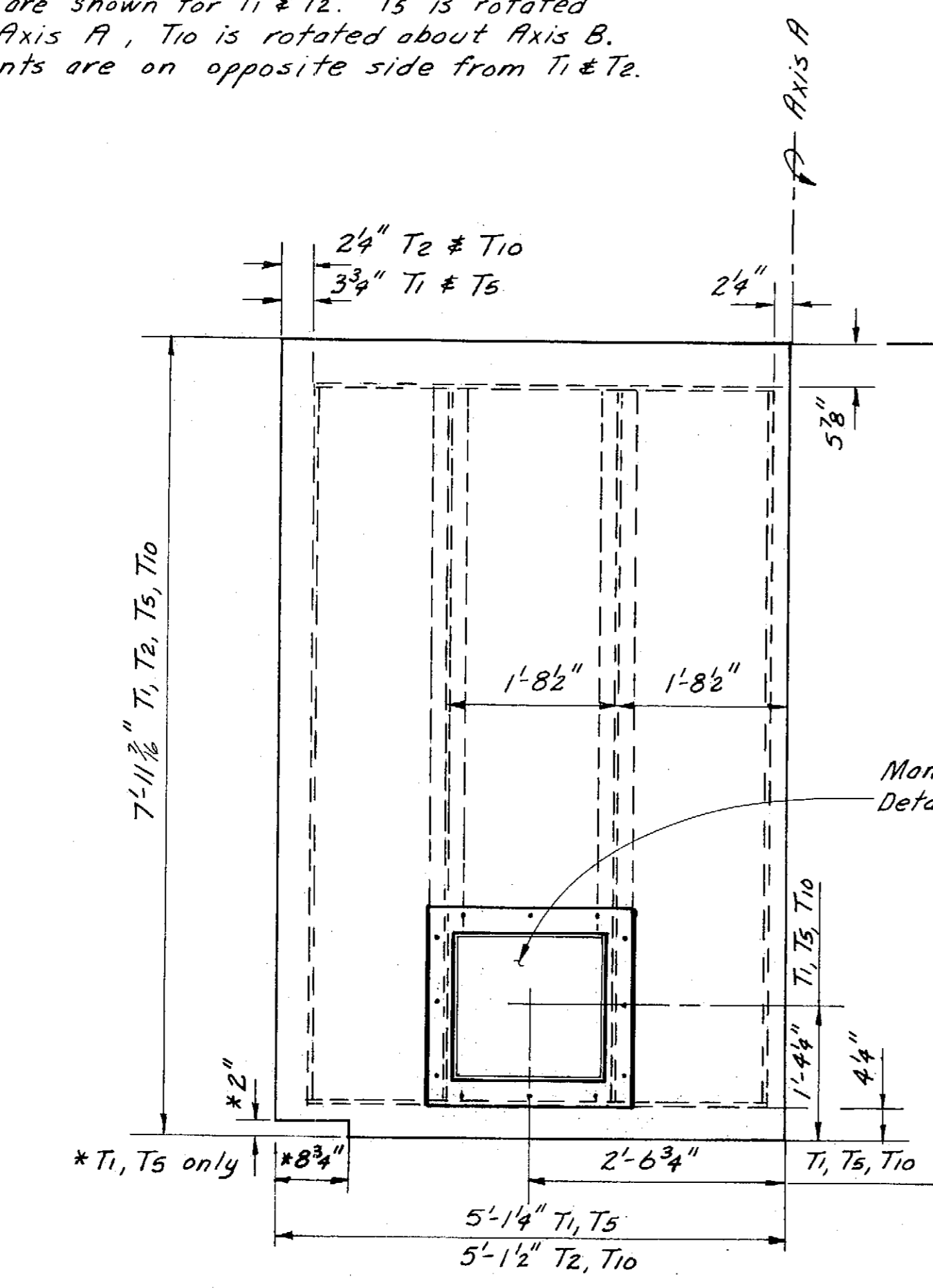
\* Remove barge coating under lower R and weld area. Repair coating damaged.

**AS-BUILT**

	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Petersburg	Alaska	
<b>HULL DECK PANEL LAYOUT GANGWAY PLATFORM</b>		
SCALE: As Noted	SURVEYED	APPROVED
DESIGNED: BS	DRAWN: BS	
CHECKED: JS	DATE: 4-84	
PROJECT NUMBER: A38502	SHEET 23 OF 62	

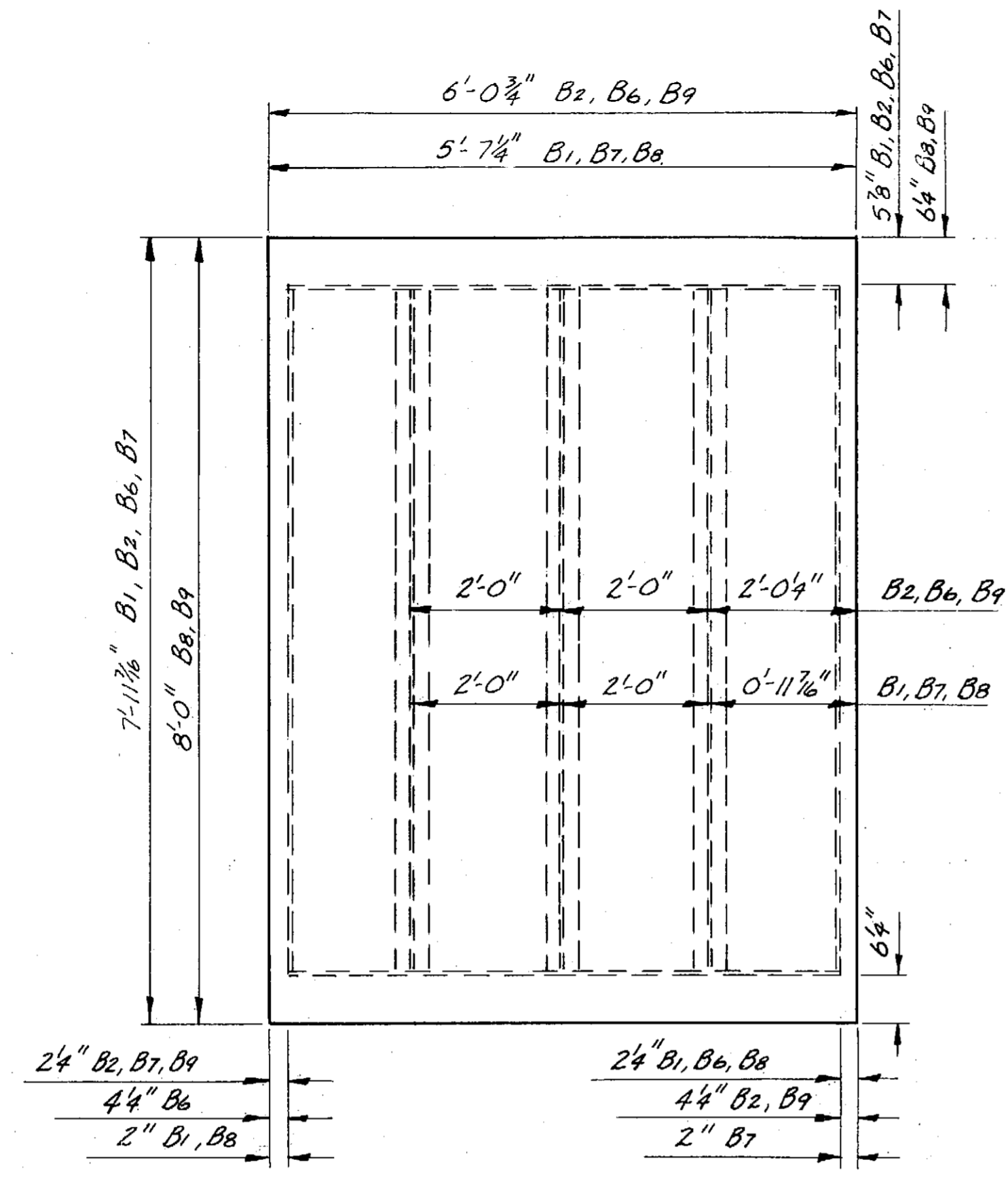
2/25/85

Note: Details are shown for T1 & T2. T3 is rotated about Axis A, T10 is rotated about Axis B. Weldments are on opposite side from T1 & T2.

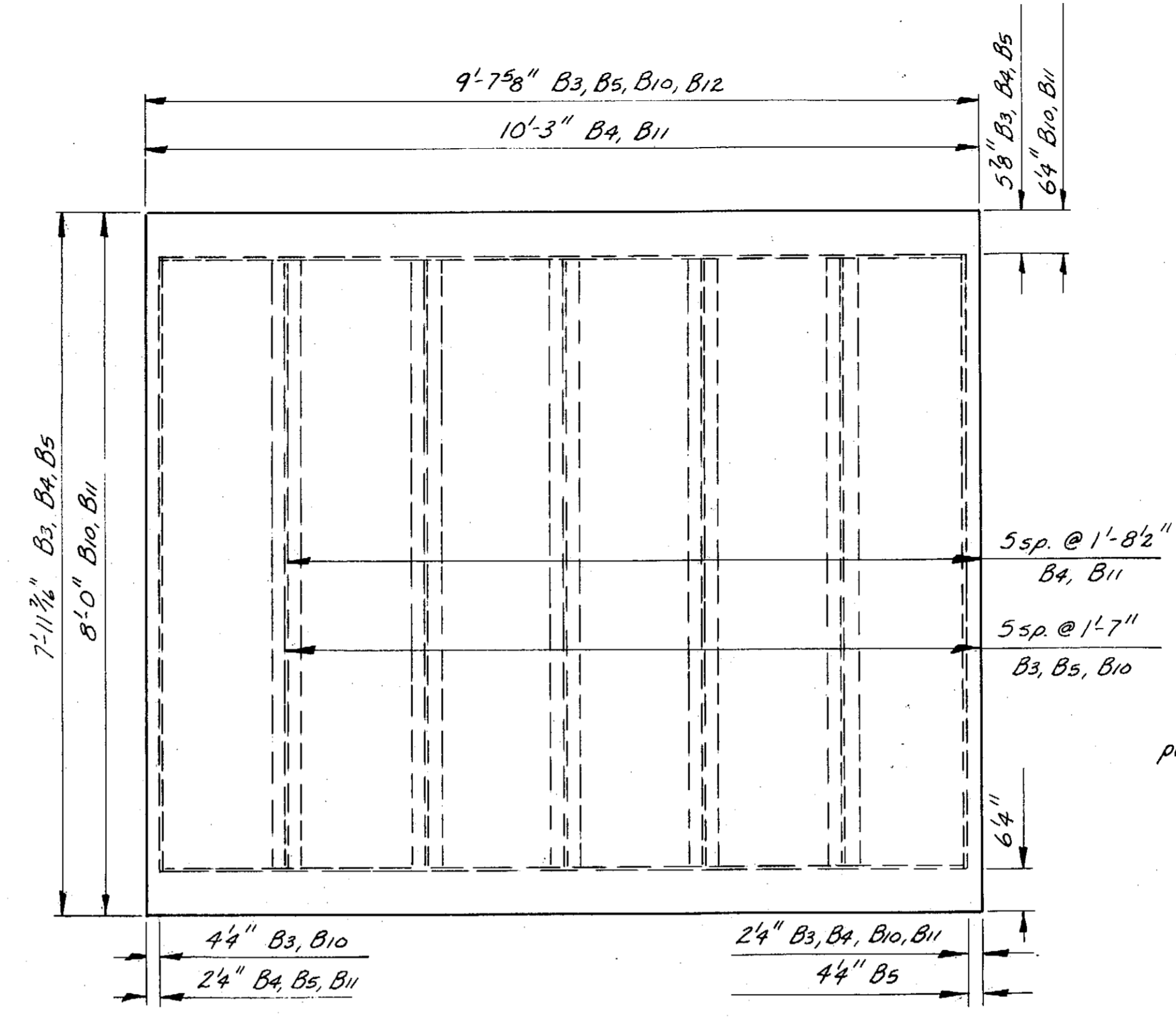


**AS-BUILT**

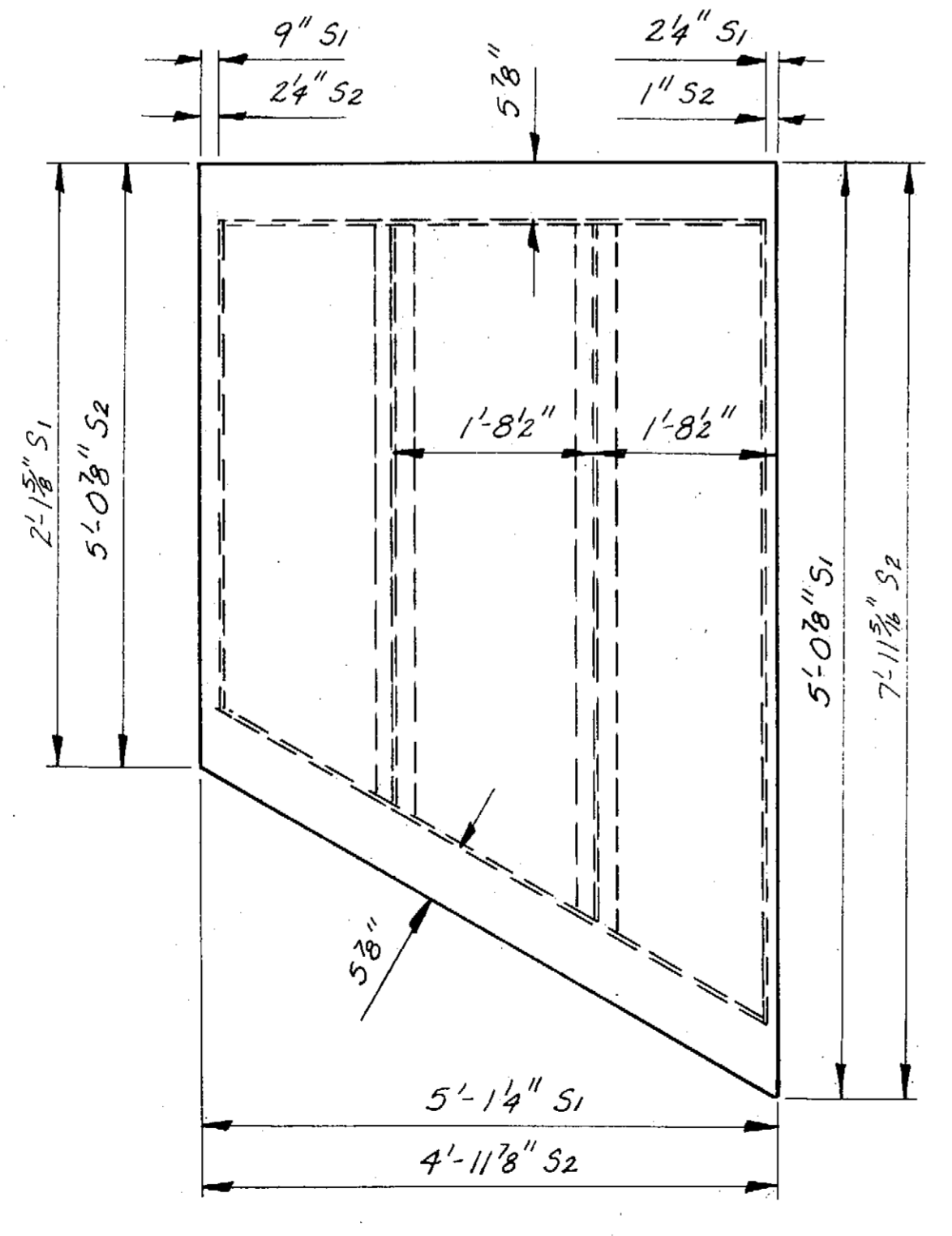
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
PANELS T1 - T11 AND MANHOLE DETAILS			
DESIGNED JBL	CHECKED JS	DRAWN JBL/JS	DATE 3-84
PROJECT NUMBER A38502	SHEET 24		OF 67



PANELS B1, B2, B6, B7, B8, B9

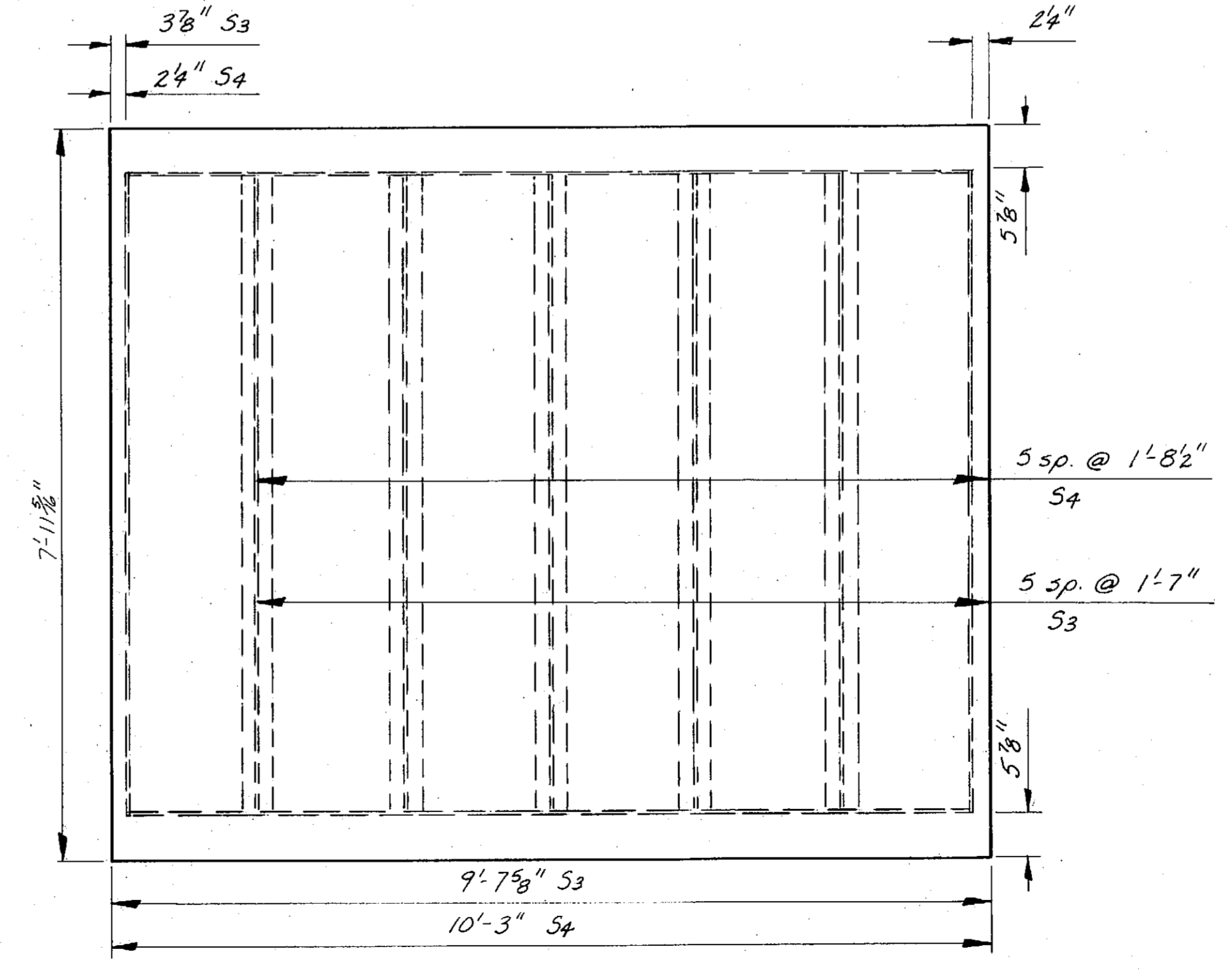


PANELS B3, B4, B5, B10, B11



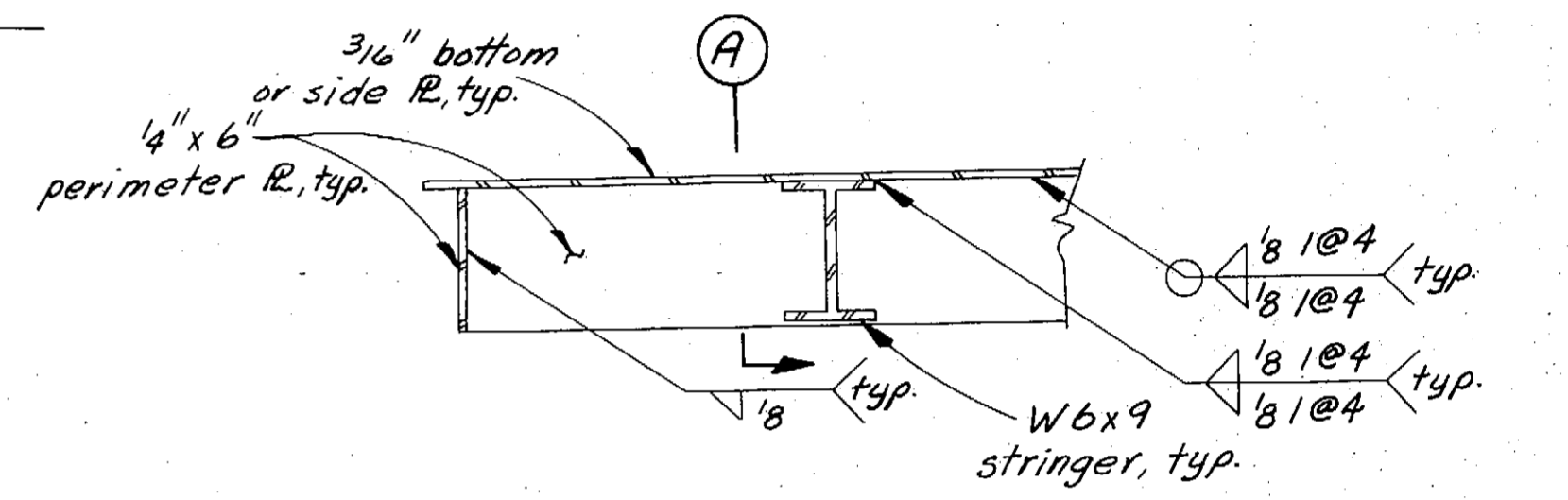
PANELS S1, S2

Note: S1 & S2, 2 req'd ea. type as shown, 2 req'd ea. type w/ weldments on near side.

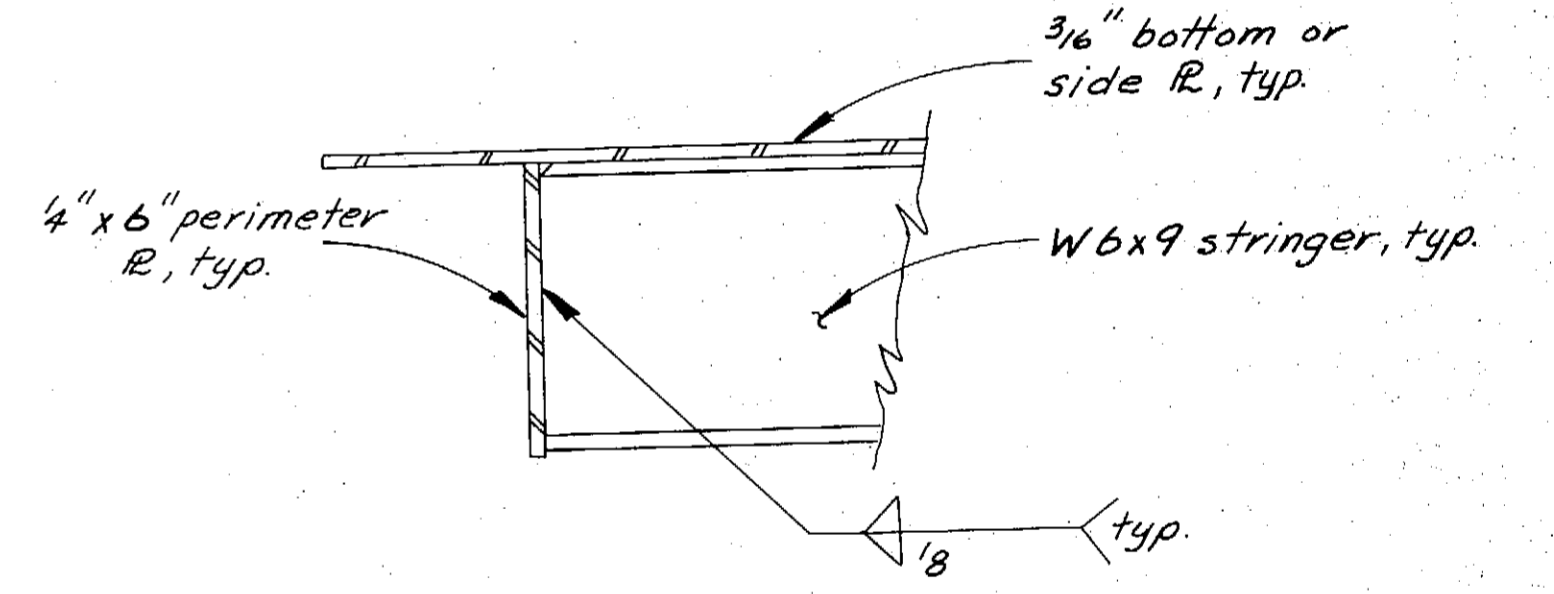


PANELS S3, S4

Note: S3 & S4, 2 req'd ea. type as shown, 2 req'd ea. type w/ weldments on near side.



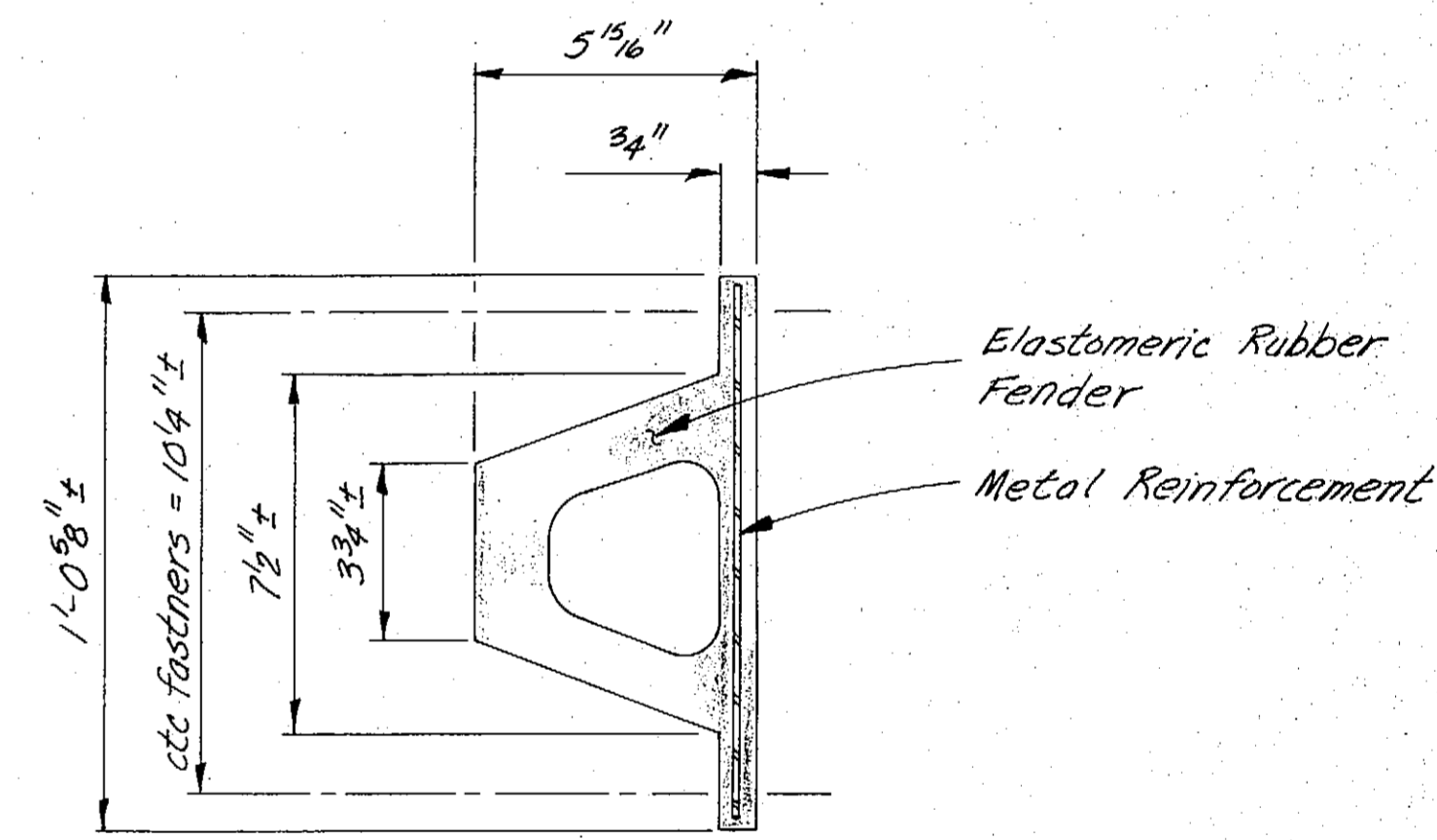
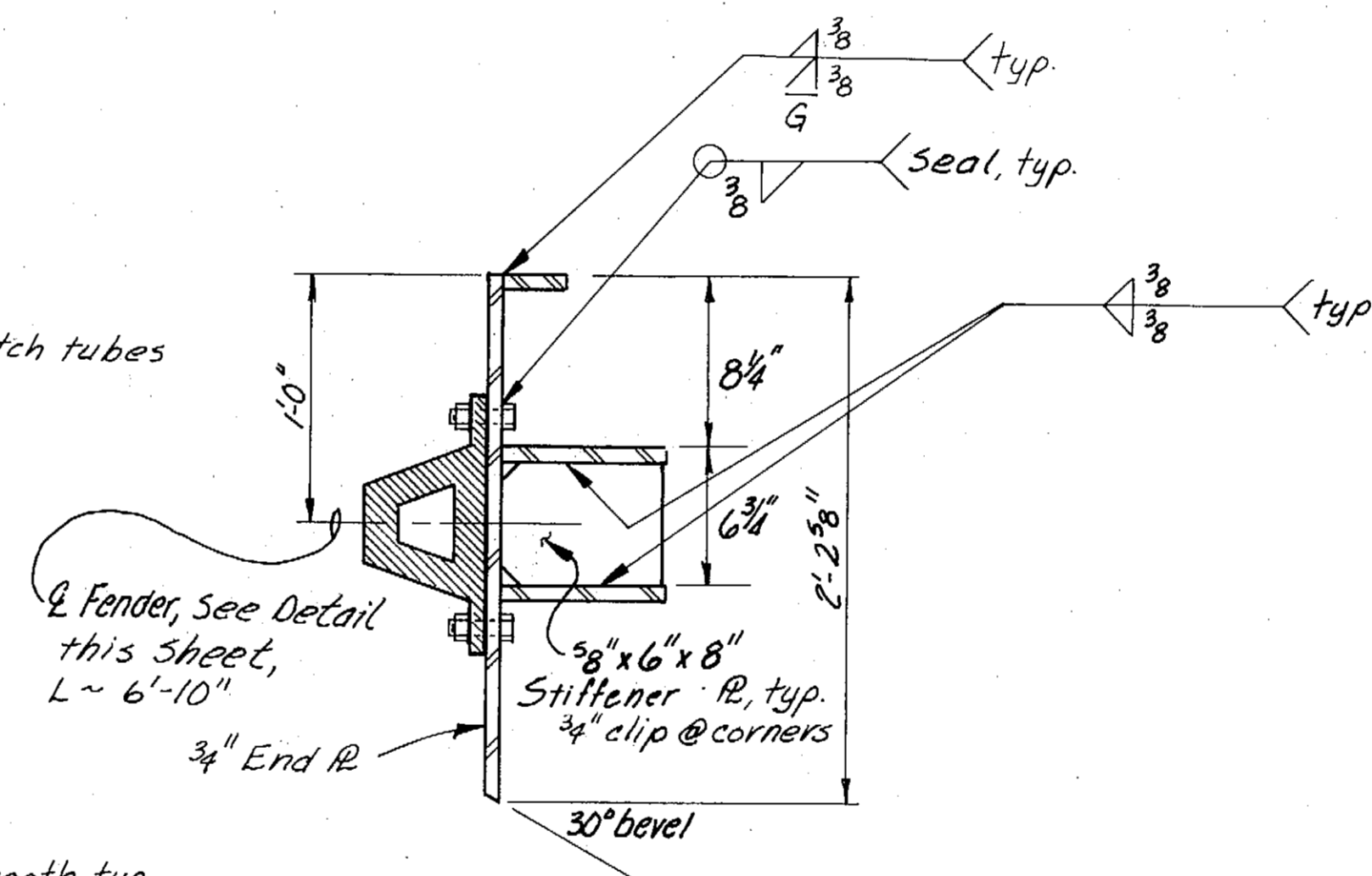
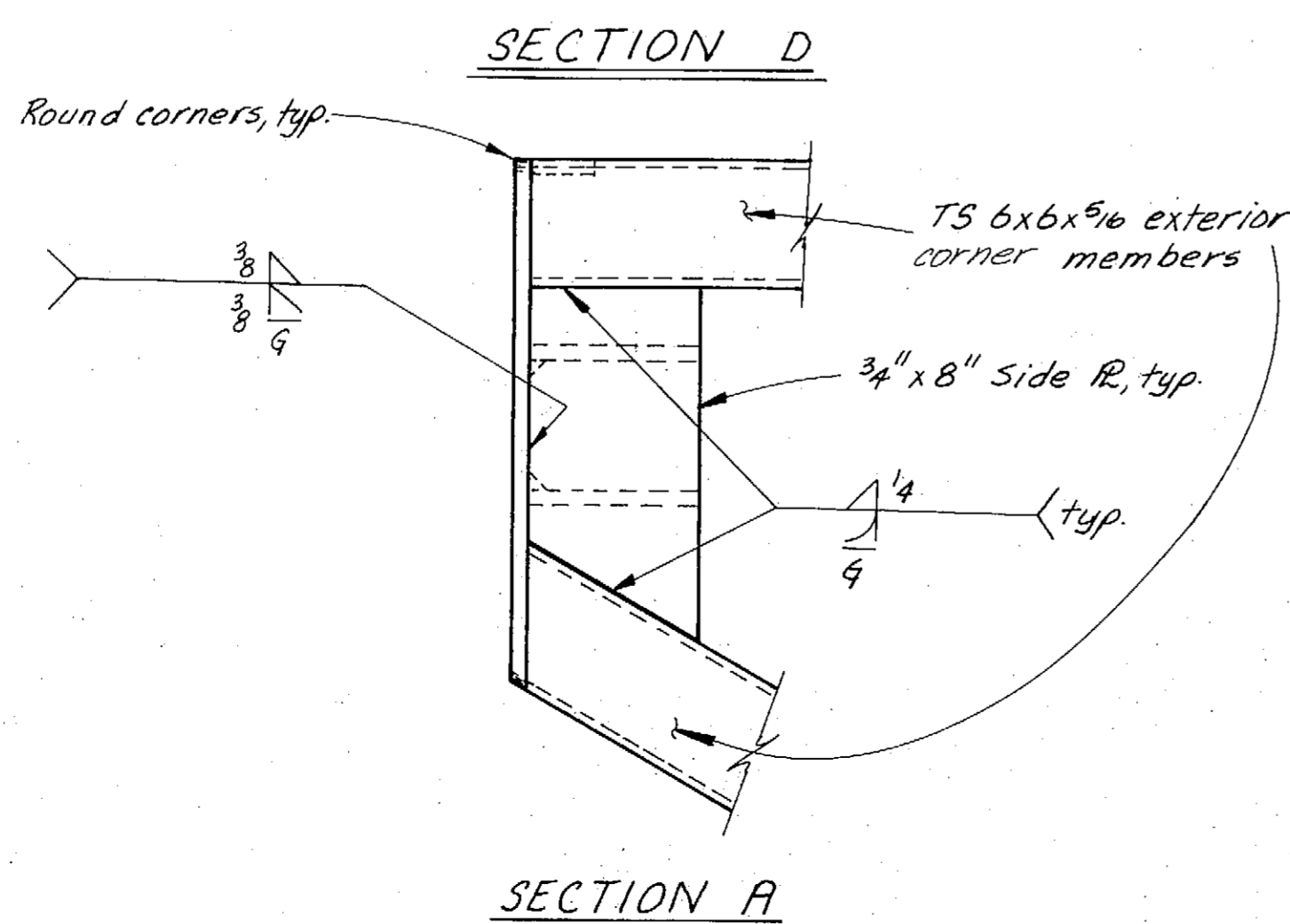
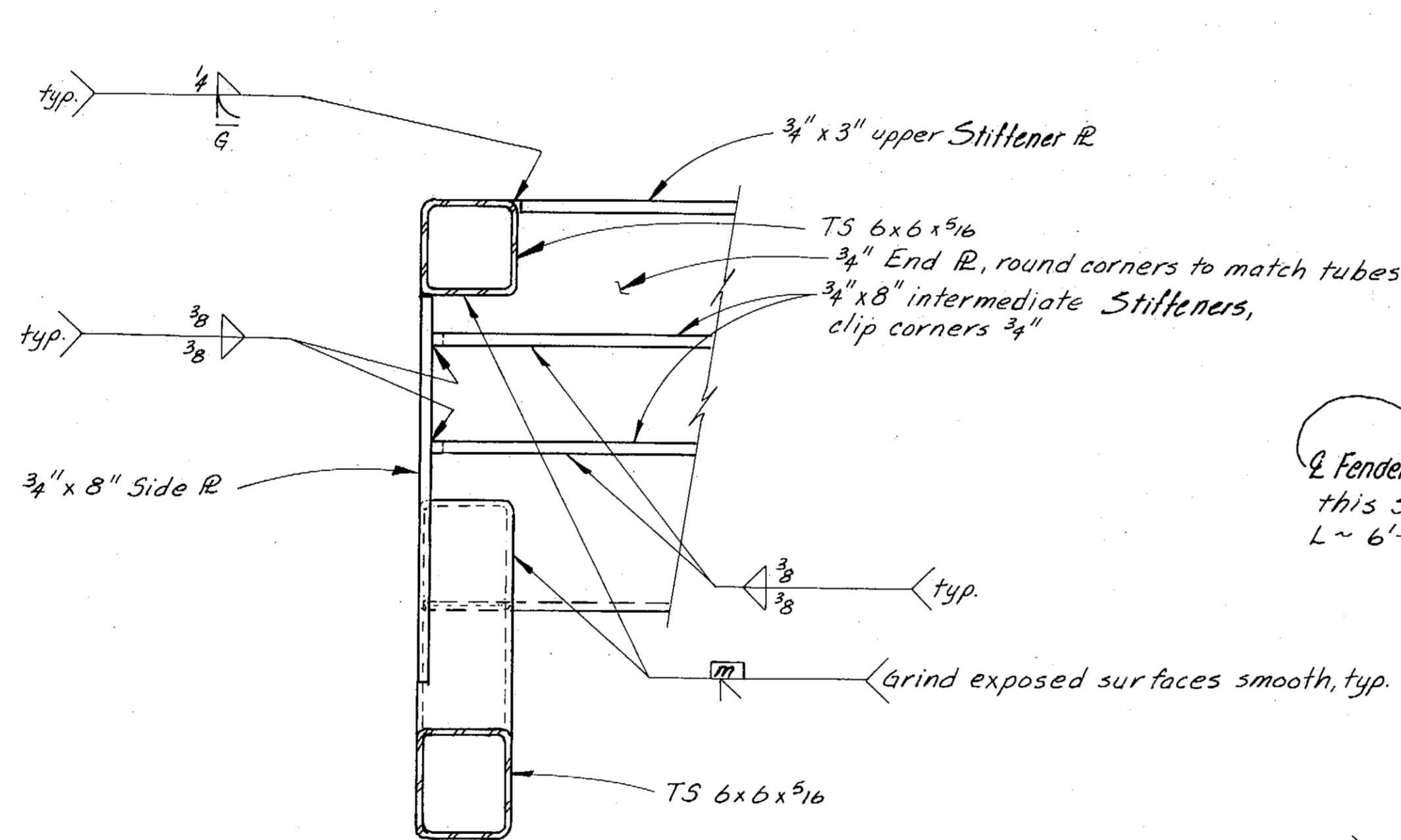
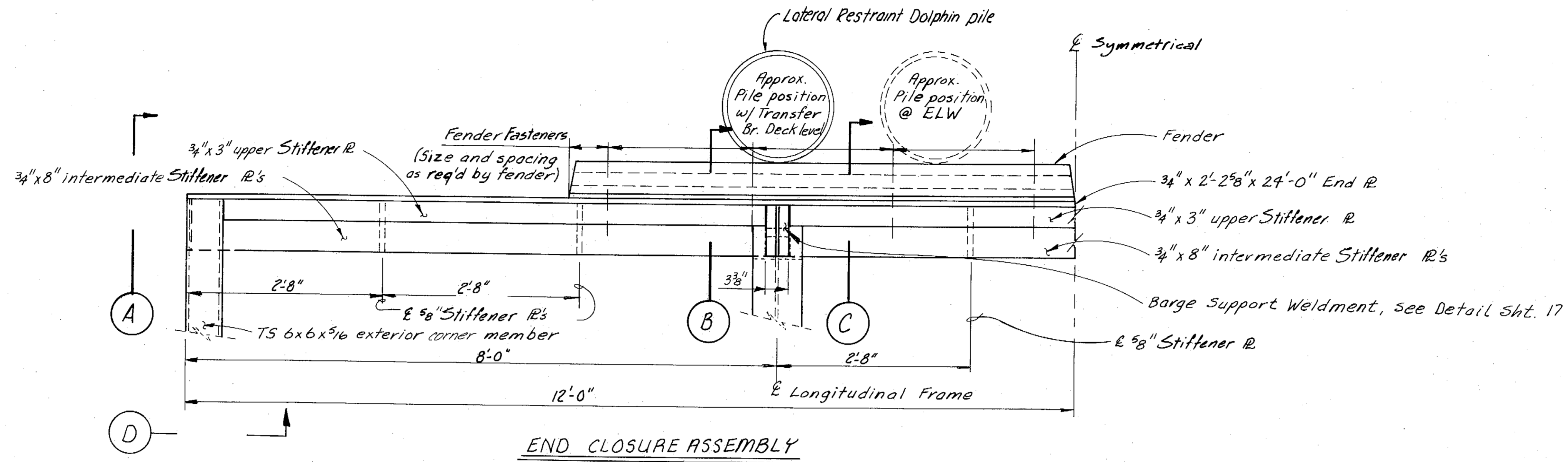
TYPICAL PARTIAL SECTION



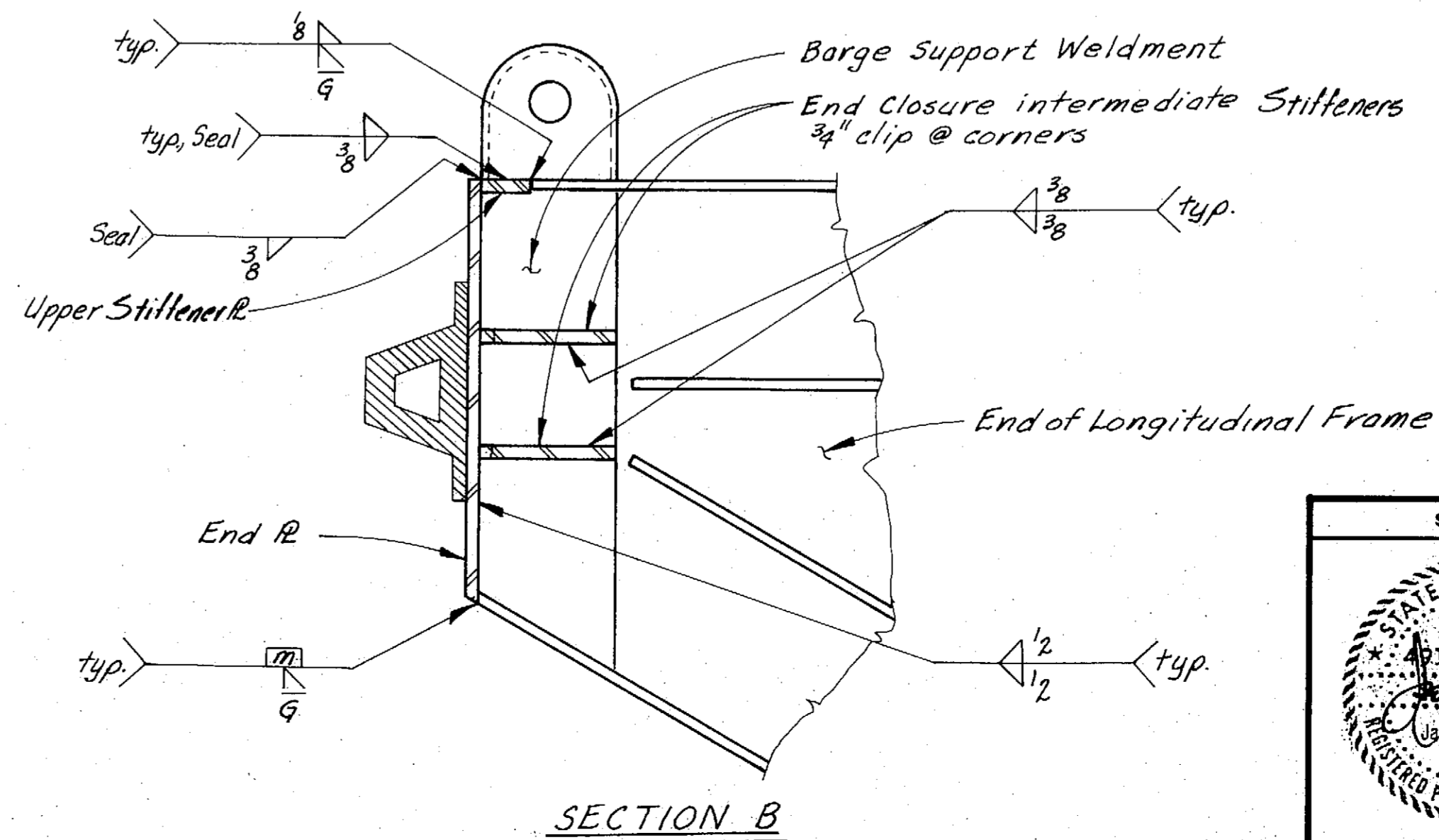
SECTION A

AS-BUILT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg	Alaska
PANELS B1-B11 & S1-S4			
DESIGNED <u>JAL</u>	CHECKED <u>JS</u>	DRAWN <u>RL/LS</u>	DATE <u>3-84</u>
PROJECT NUMBER <u>A38502</u>		SHEET <u>25</u> OF <u>62</u>	



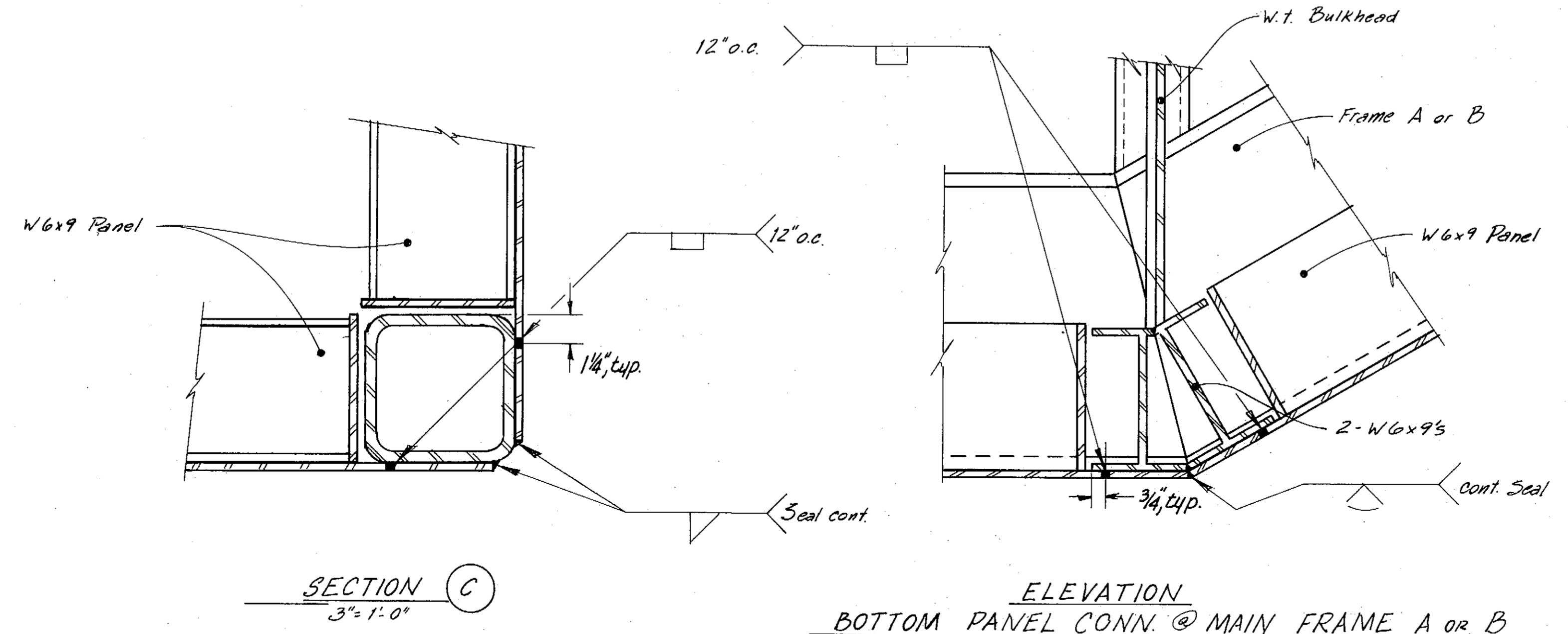
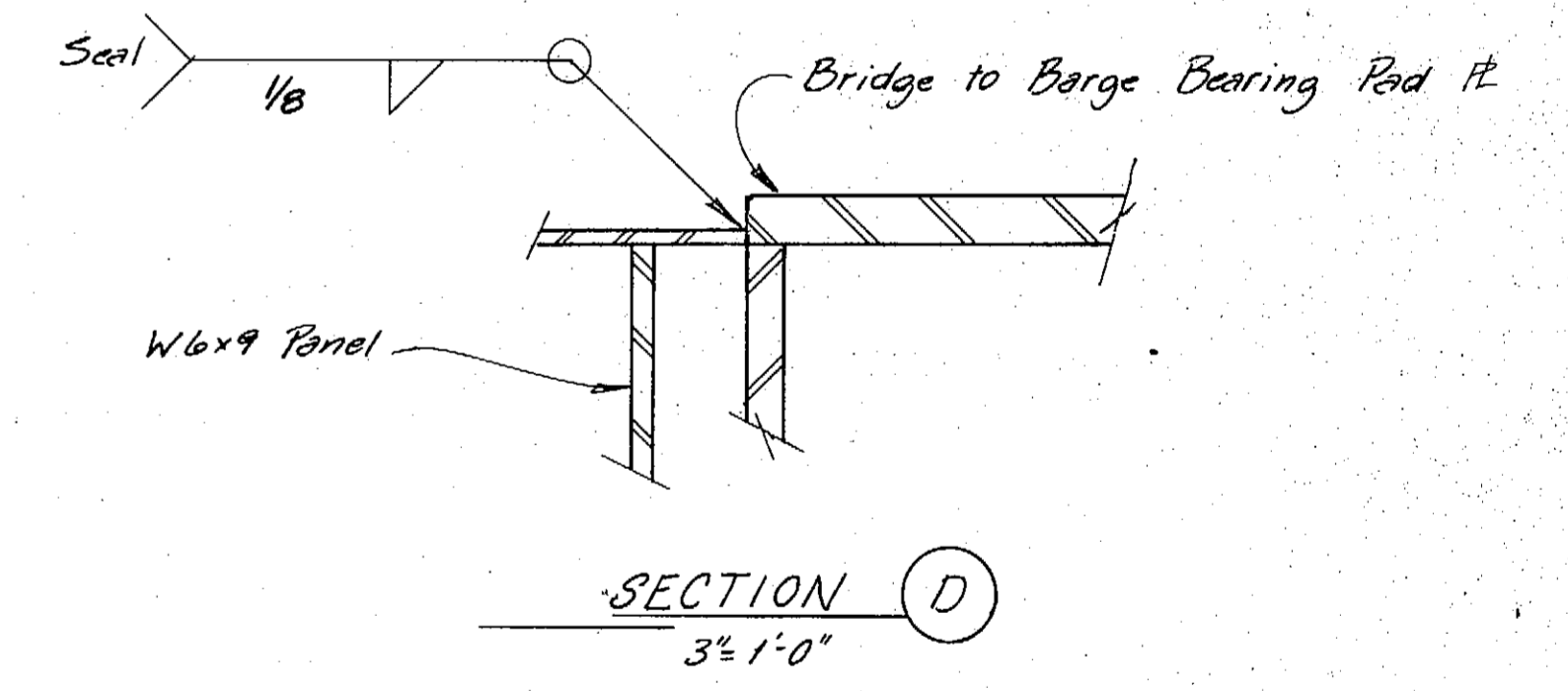
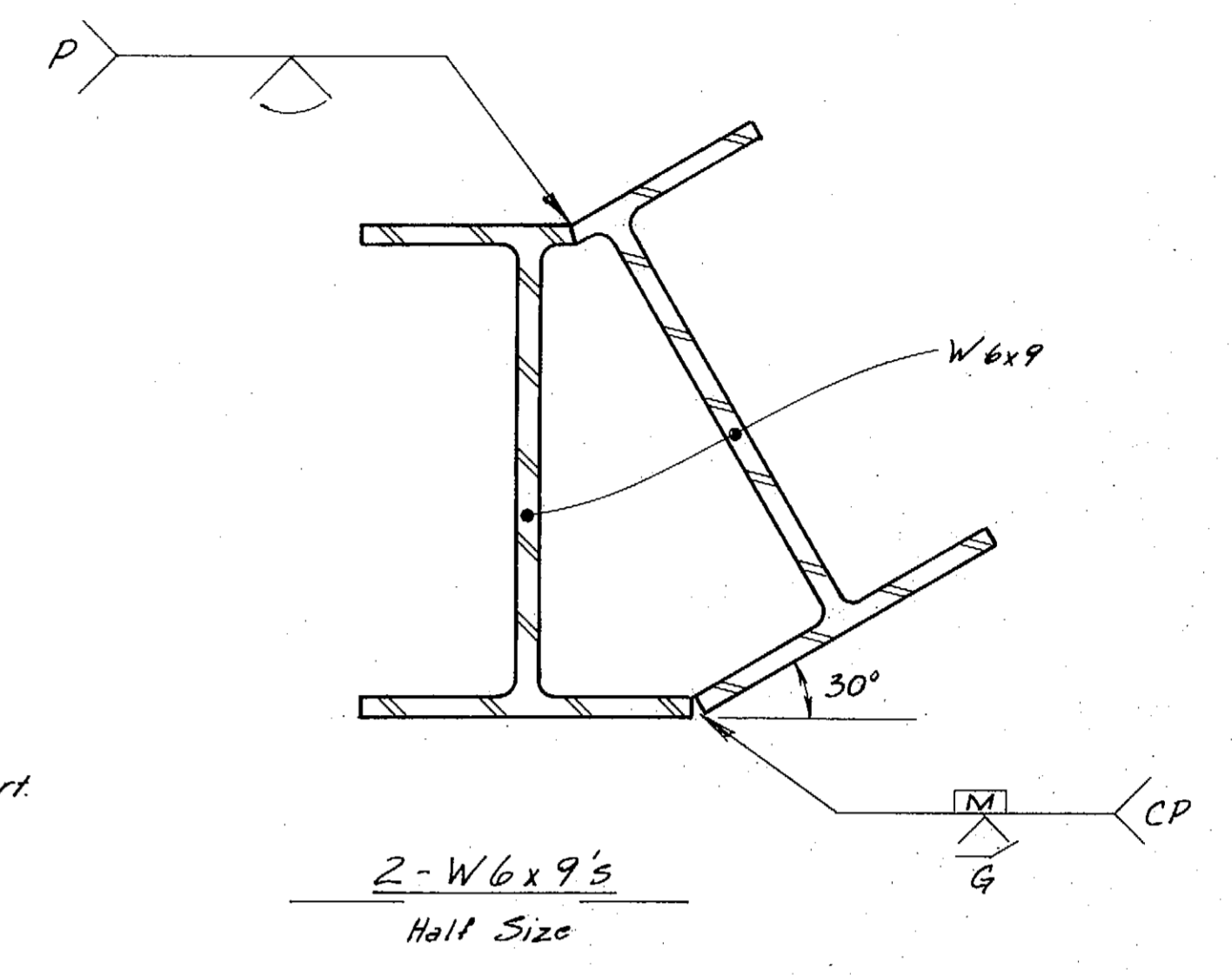
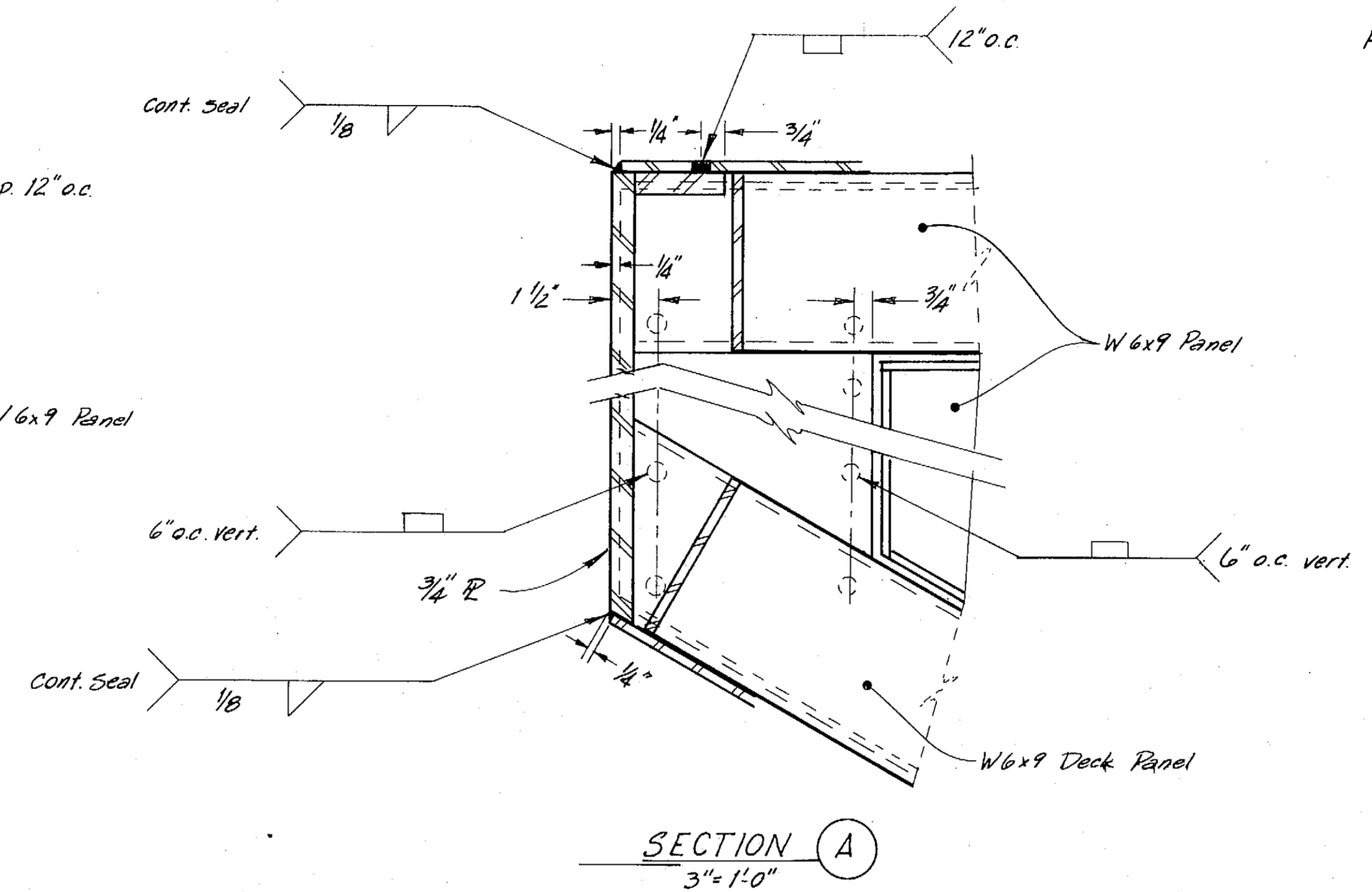
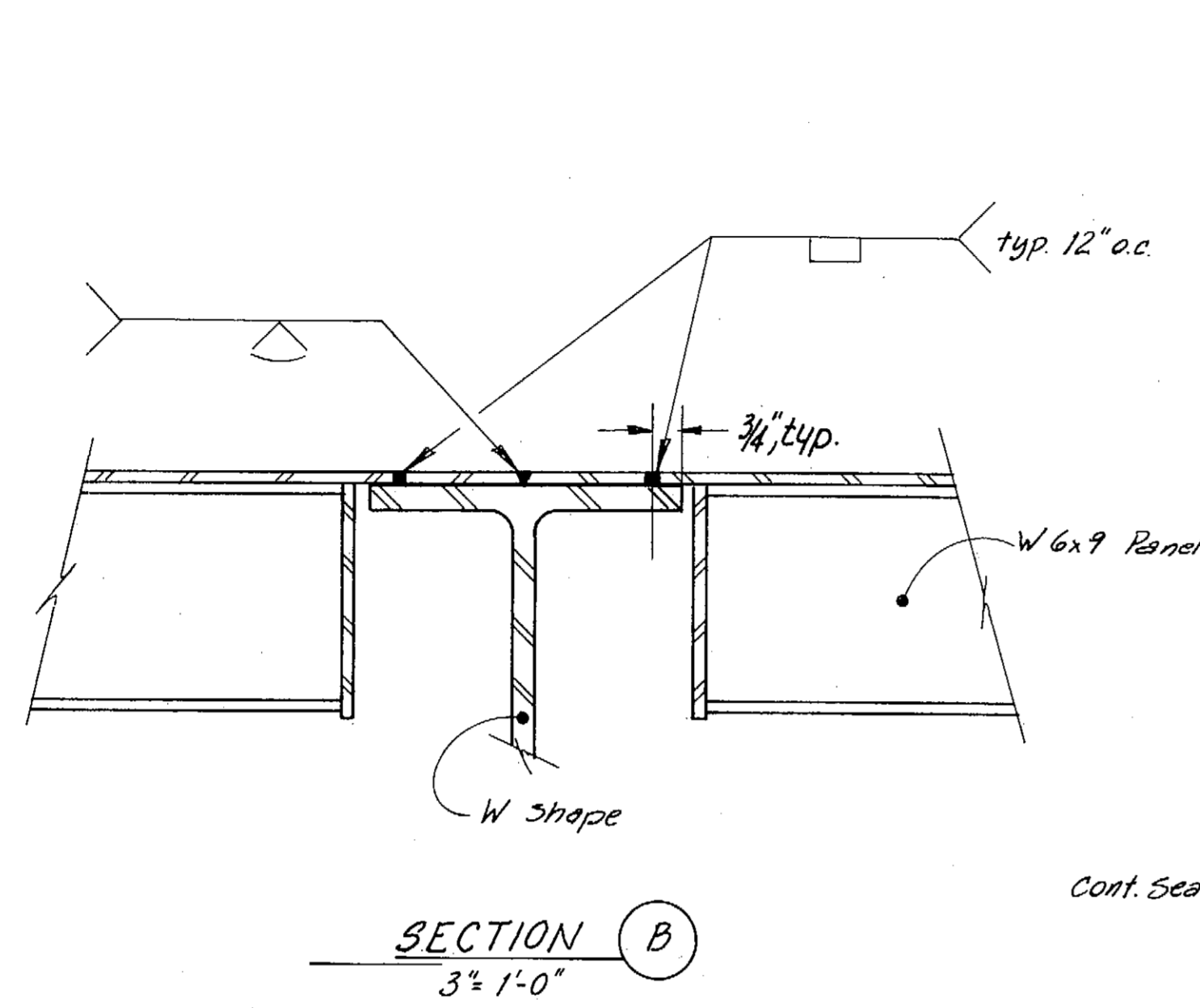
Note: Approx. 8" @ 45% deflection per ft. of length req'd.



Note: Deck, side and bottom panels not shown for clarity.

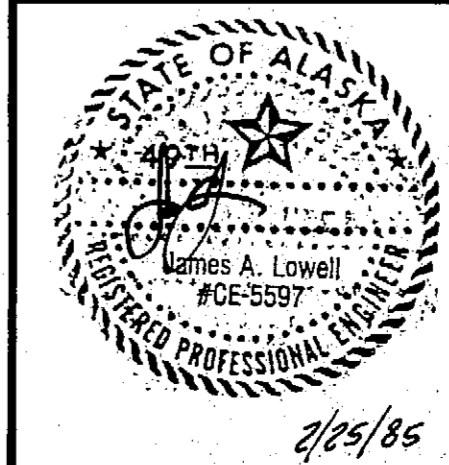
AS-BUILT

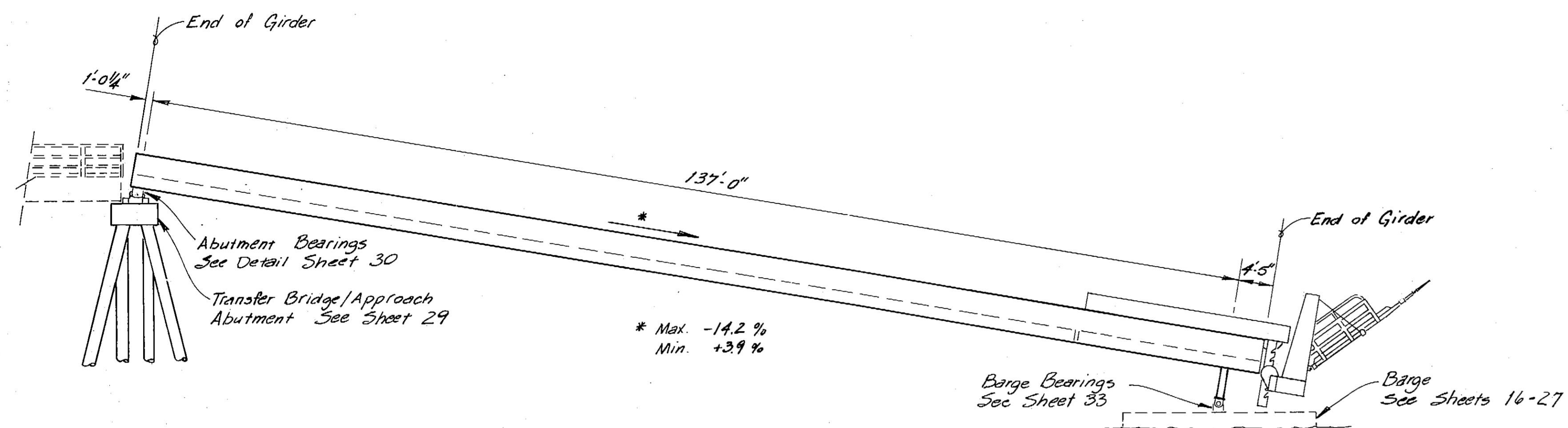
STAMP				DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
				STATE OF ALASKA			
				DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
DESIGNED <i>MLL</i> CHECKED <i>LS</i> DRAWN <i>MLL/LS</i> DATE <i>3-84</i> PROJECT NUMBER <i>A38502</i> SHEET <i>26</i> OF <i>62</i>				END CLOSURE ASSEMBLY AND FENDER DETAILS			
				2/25/85			



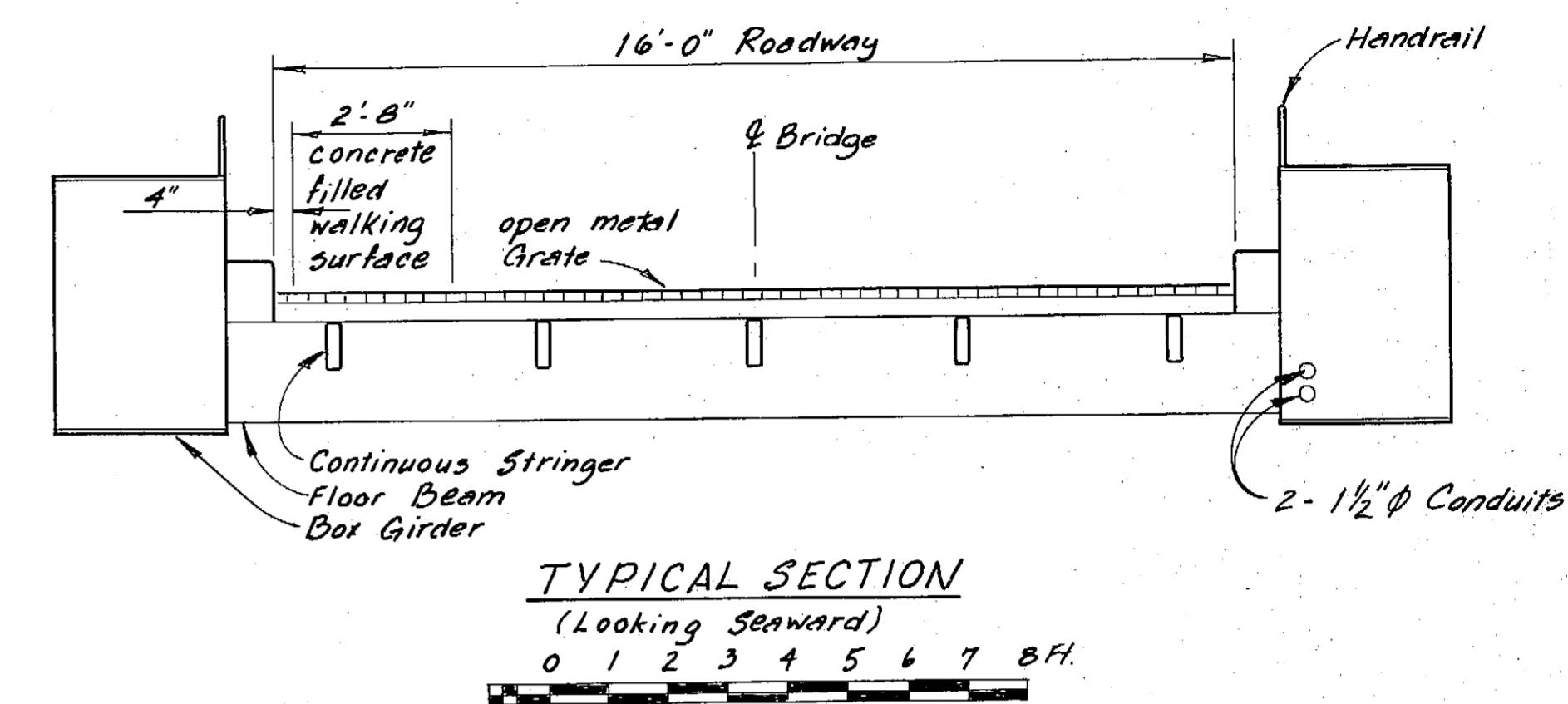
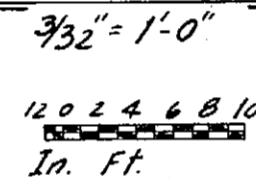
**AS-BUILT**

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
<b>PANEL CONNECTION &amp; MISC. DETAILS</b>			
DESIGNED <u>JAL</u>	CHECKED <u>JS</u>	DRAWN <u>JAL</u>	DATE <u>3-84</u>
PROJECT NUMBER <u>E-095-4(15) &amp; A38502</u>		SHEET <u>27</u> OF <u>62</u>	



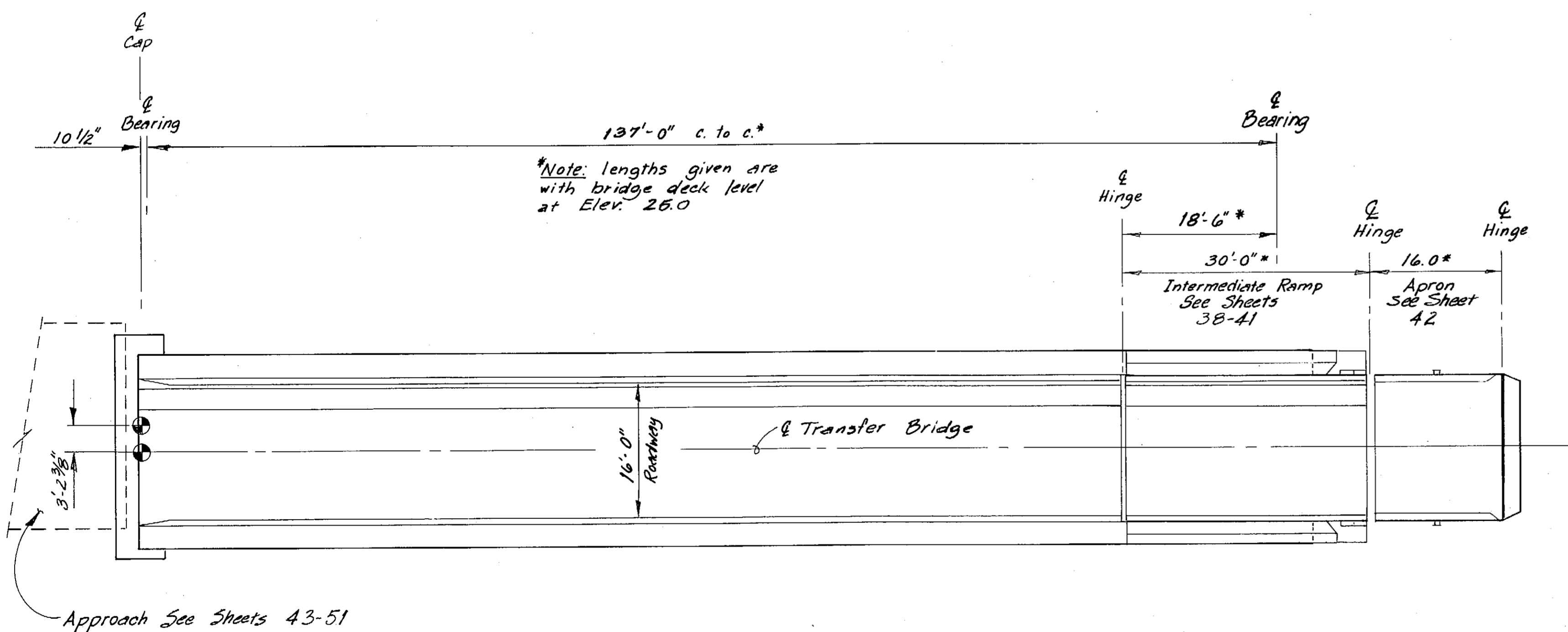


ELEVATION

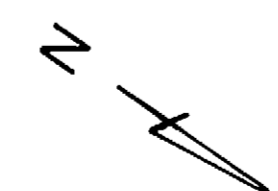


TYPICAL SECTION

(Looking Seaward)  
0 1 2 3 4 5 6 7 8 Ft.



P L A N



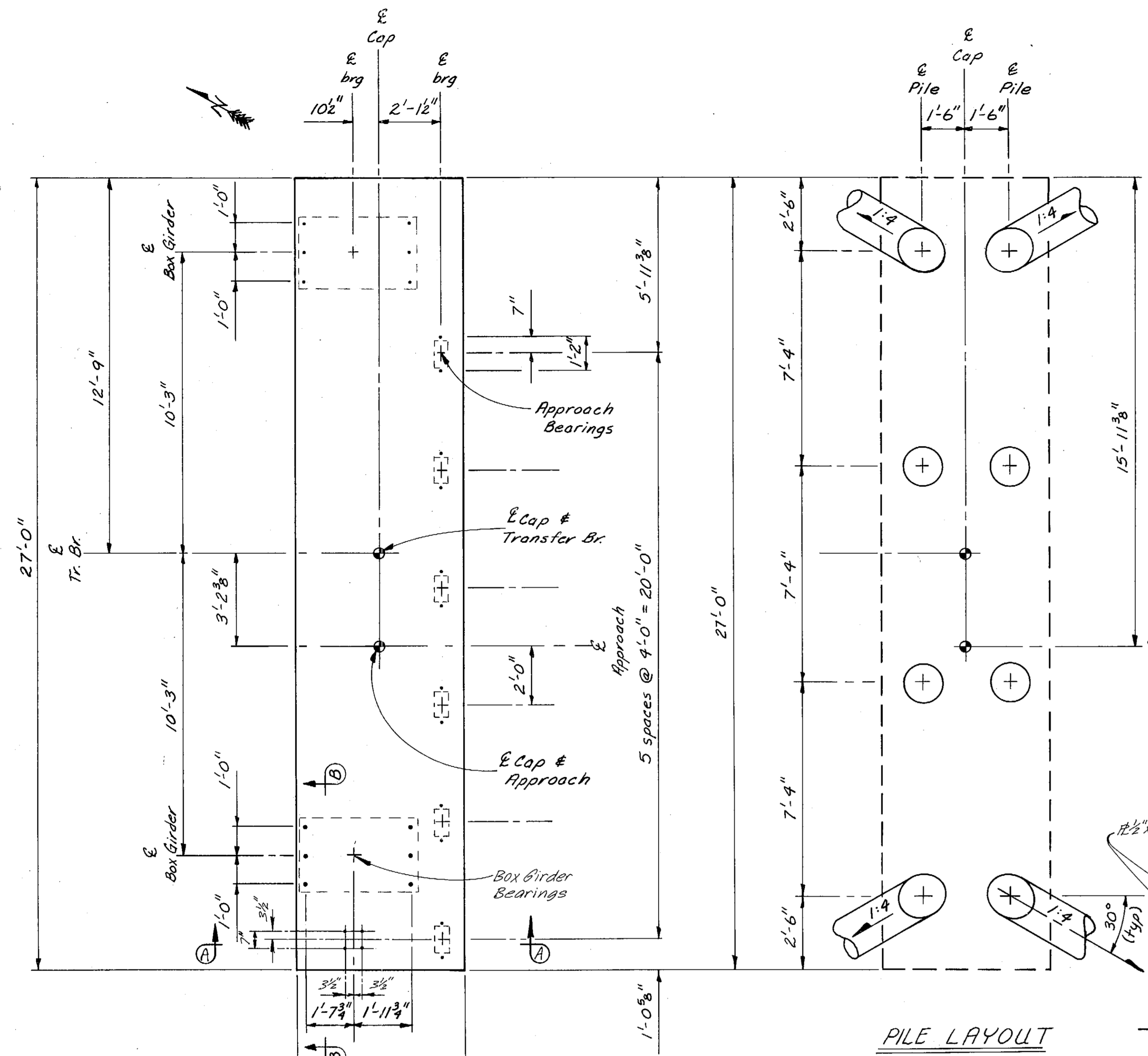
- Notes:
1. Approx. Total Wt. of Transfer Bridge w/ deck and rails = 253,000 lbs. (78,000 lbs. A572, 55,000 lbs. A500, 120,000 lbs. A36)
  2. Transfer Bridge to be painted (See General Notes.), except grating, rails and apron which shall be galvanized after fabrication.

**AS-BUILT**

STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
<b>TRANSFER BRIDGE LAYOUT BRIDGE # 802</b>		
SCALE <i>As Noted</i>	SURVEYED	APPROVED
DESIGNED <i>JLP</i>	DRAWN <i>DB</i>	
CHECKED <i>LS</i>	DATE <i>11-83</i>	
PROJECT NUMBER <b>A38502</b>	SHEET <b>28</b> OF <b>62</b>	

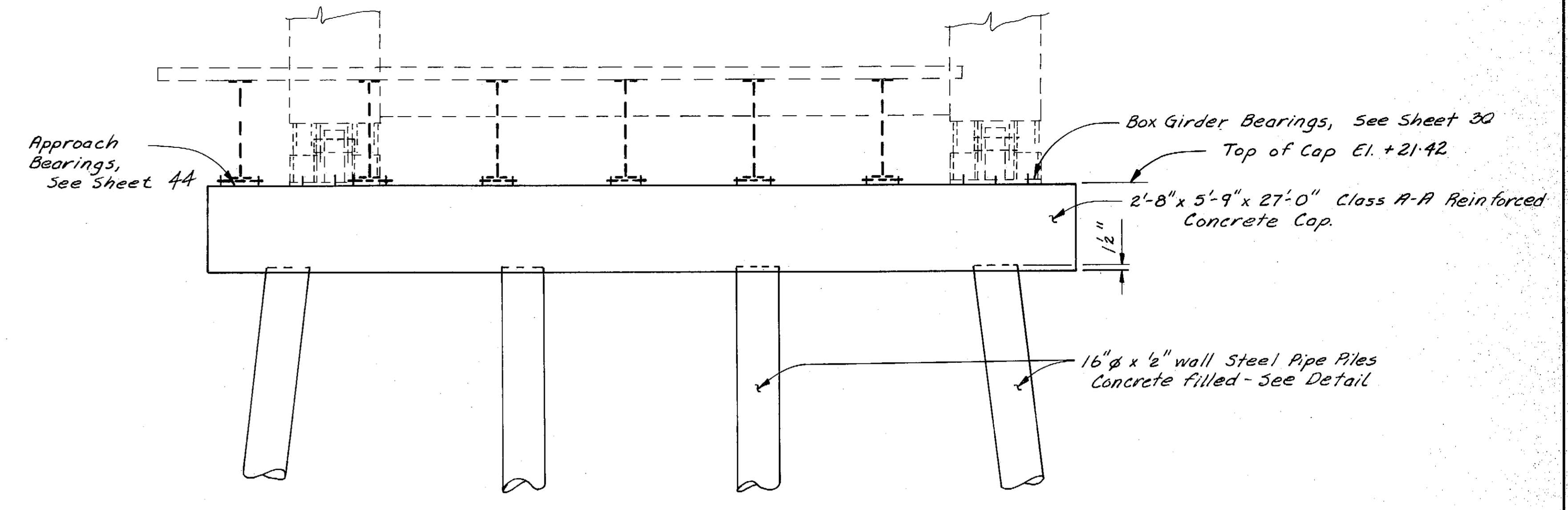


2-25-85

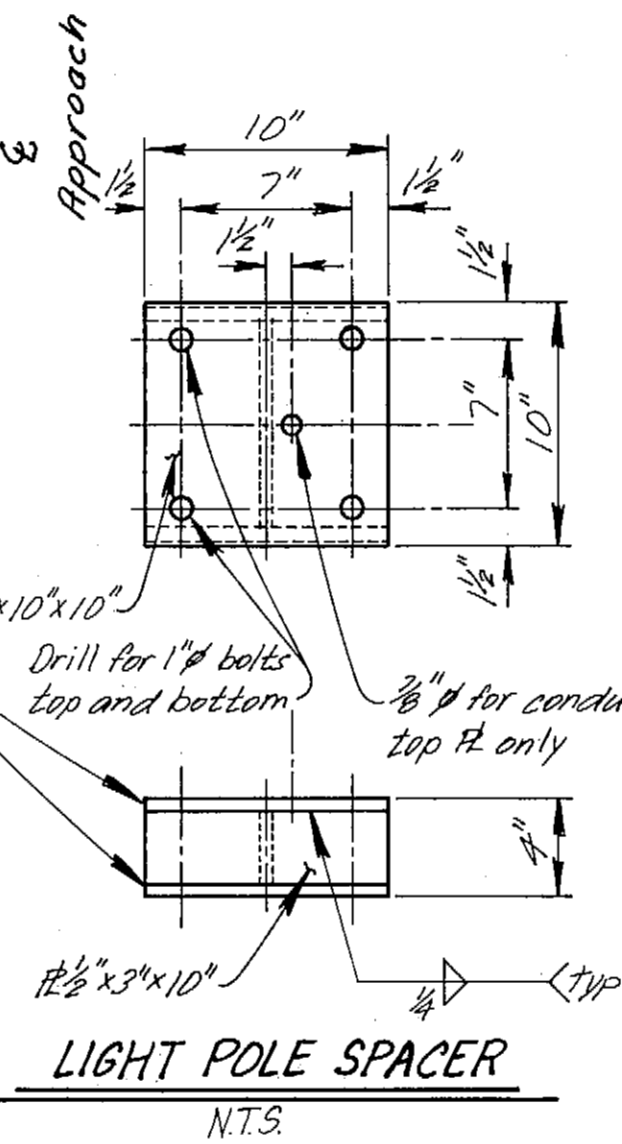
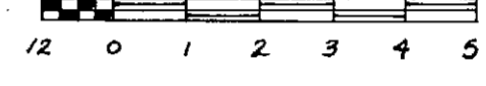


Point	N	E	Bearing
E Cap & Tr. Br.	7866-715	11132-989	5 57° 39' 44.6" W
E Cap & App.	7865-004	11130-287	

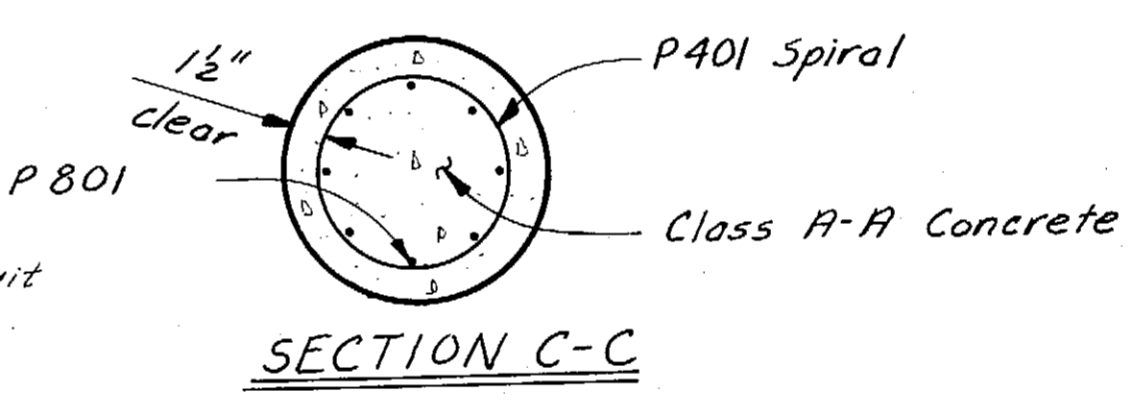
PLAN



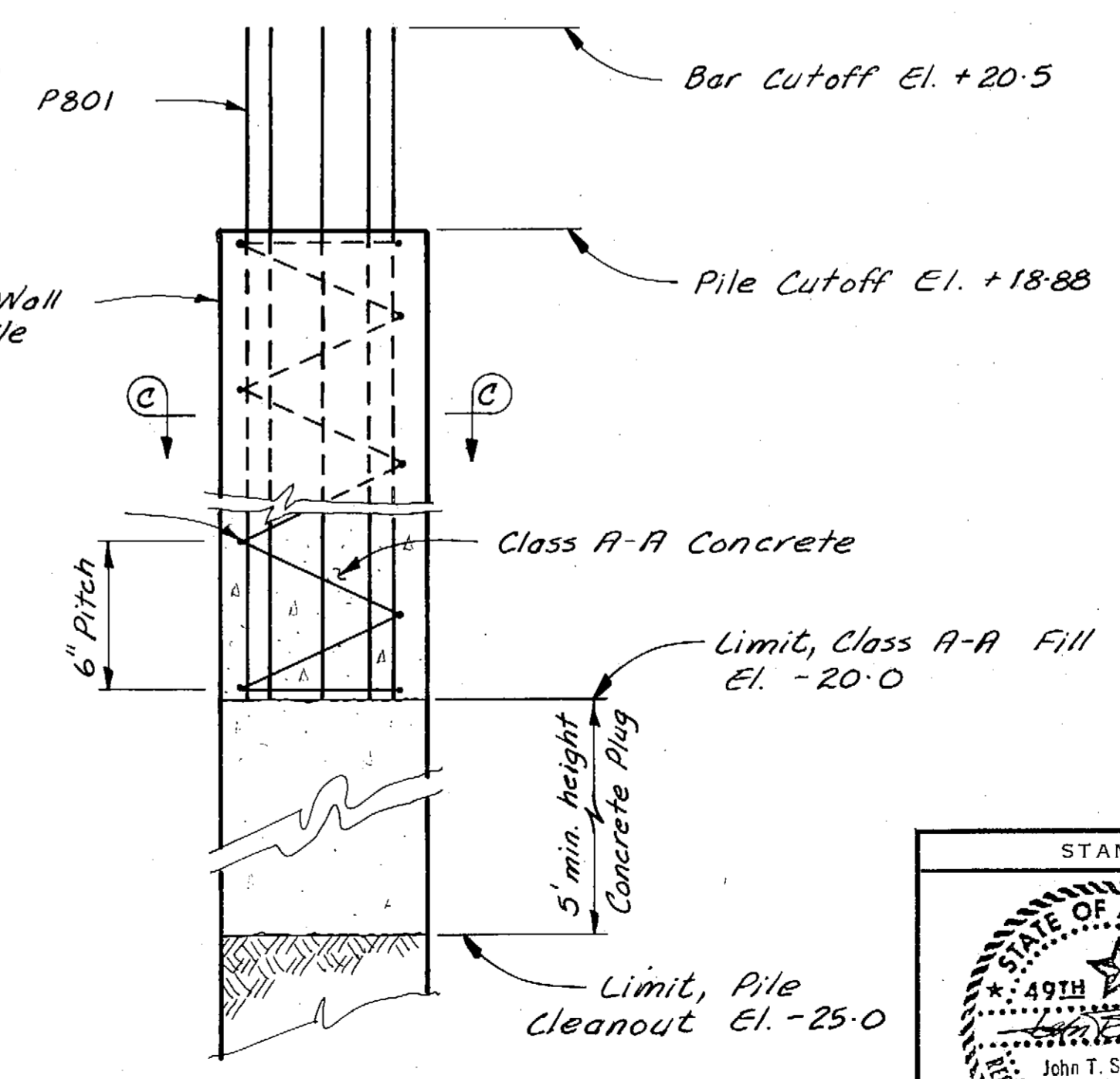
ELEVATION  
(looking Seaward)



LIGHT POLE SPACER  
N.T.S.

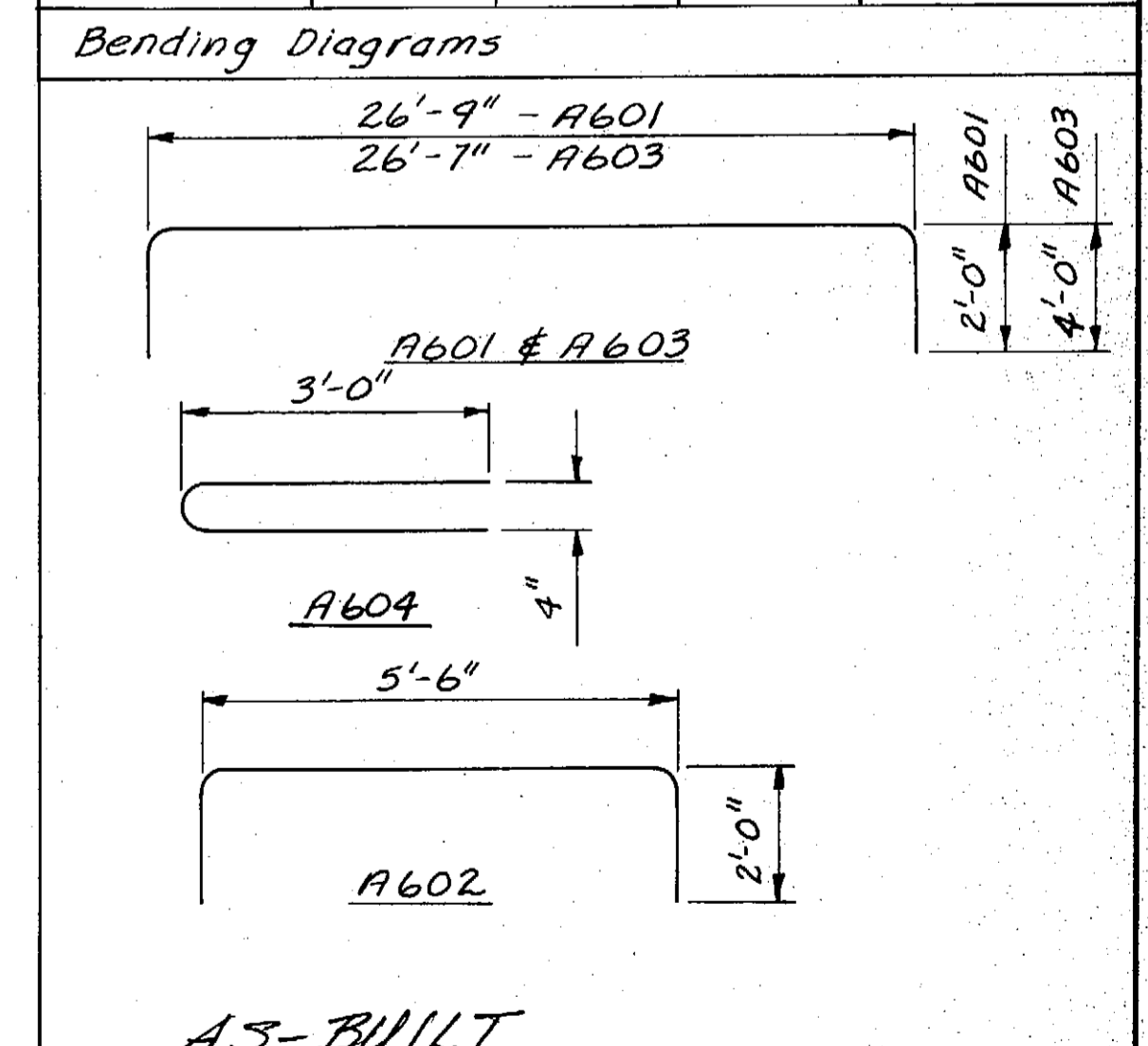


SECTION C-C

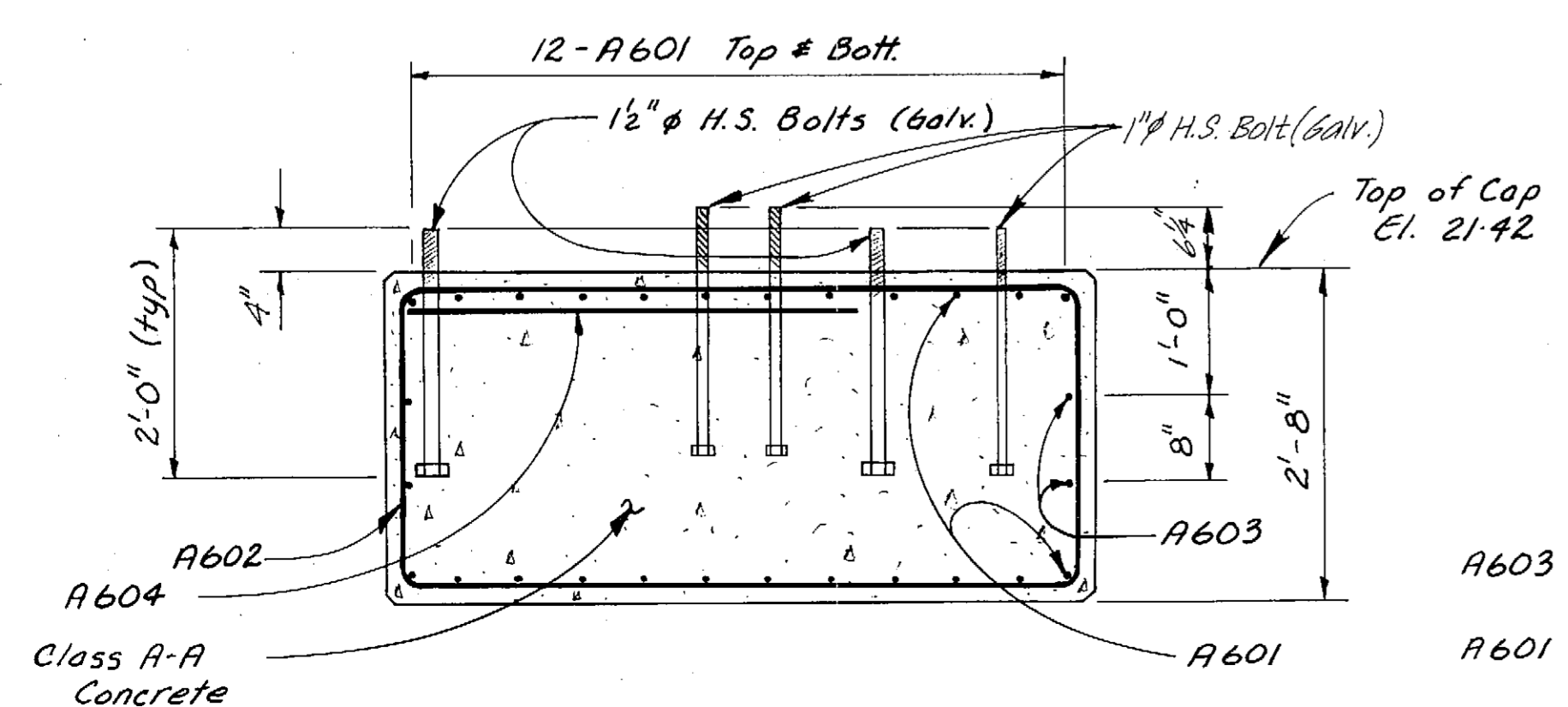


PILE DETAIL  
(No Scale)

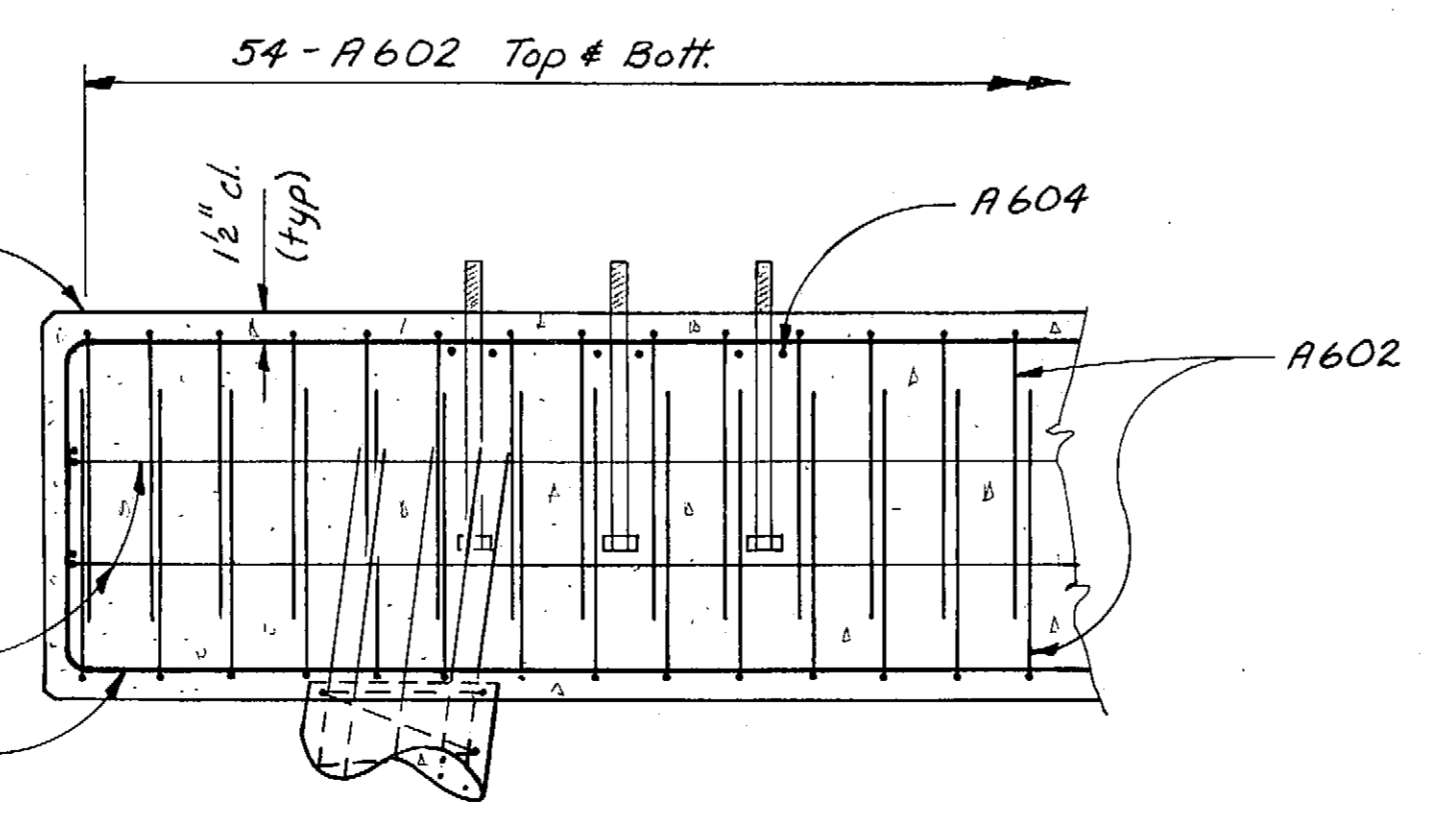
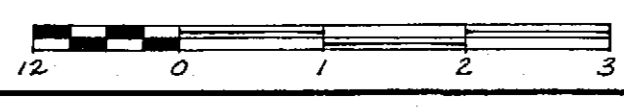
REINFORCING SCHEDULE				
Mark	Size	No.	Length	Type
A601	6	24	30'-9"	Bent
A602	4	108	9'-6"	
A603	4	4	34'-7"	
A604	6	6	6'-6"	Bent
P401	4	8	265'-0"	Spiral
P801	8	64	40'-6"	



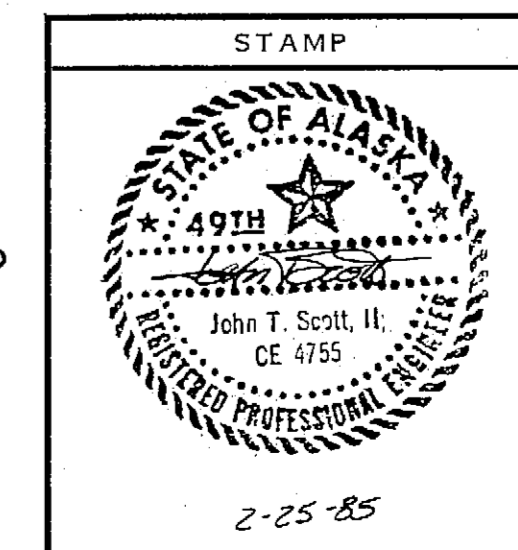
Bending Diagrams



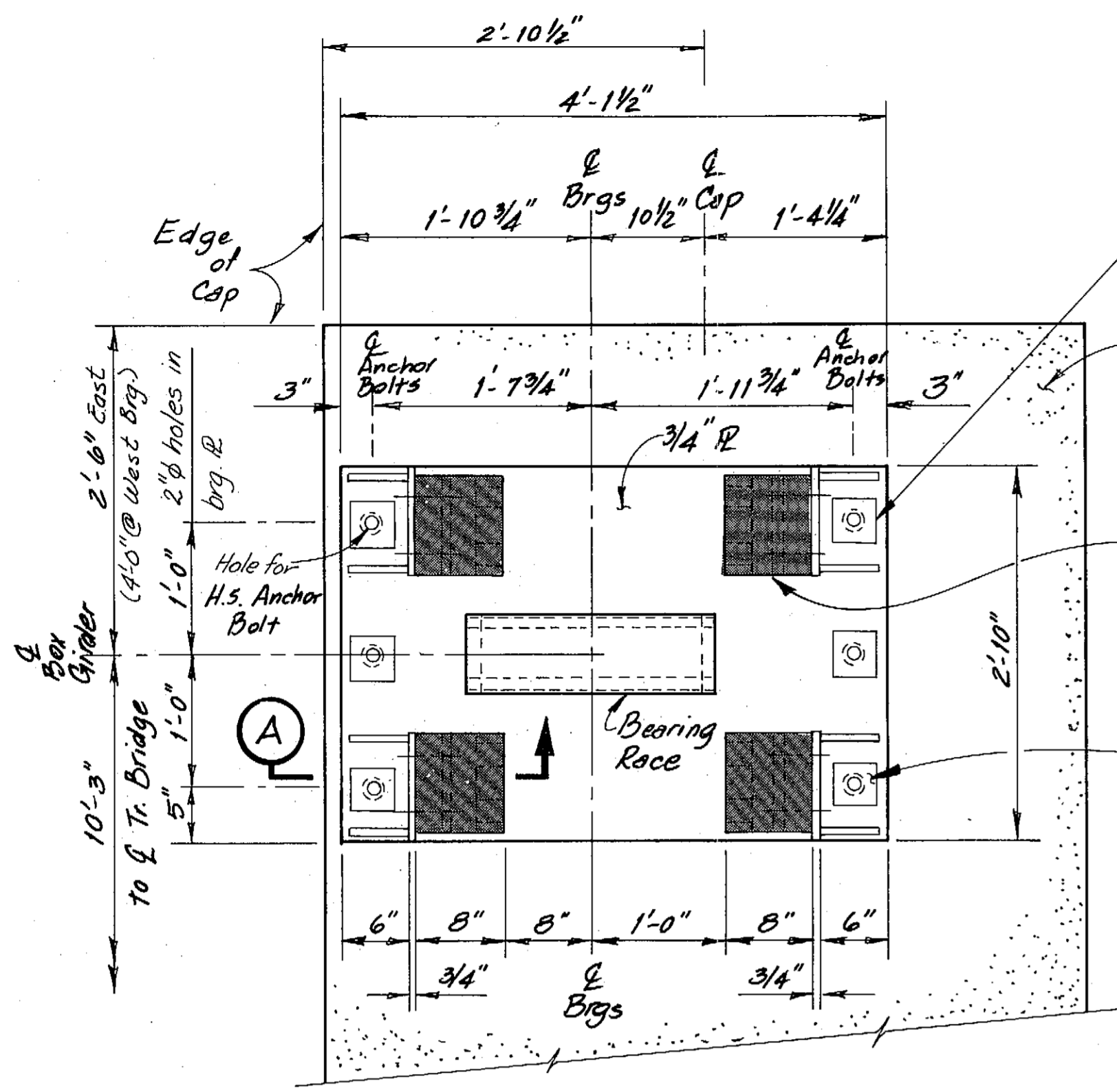
SECTION A-A



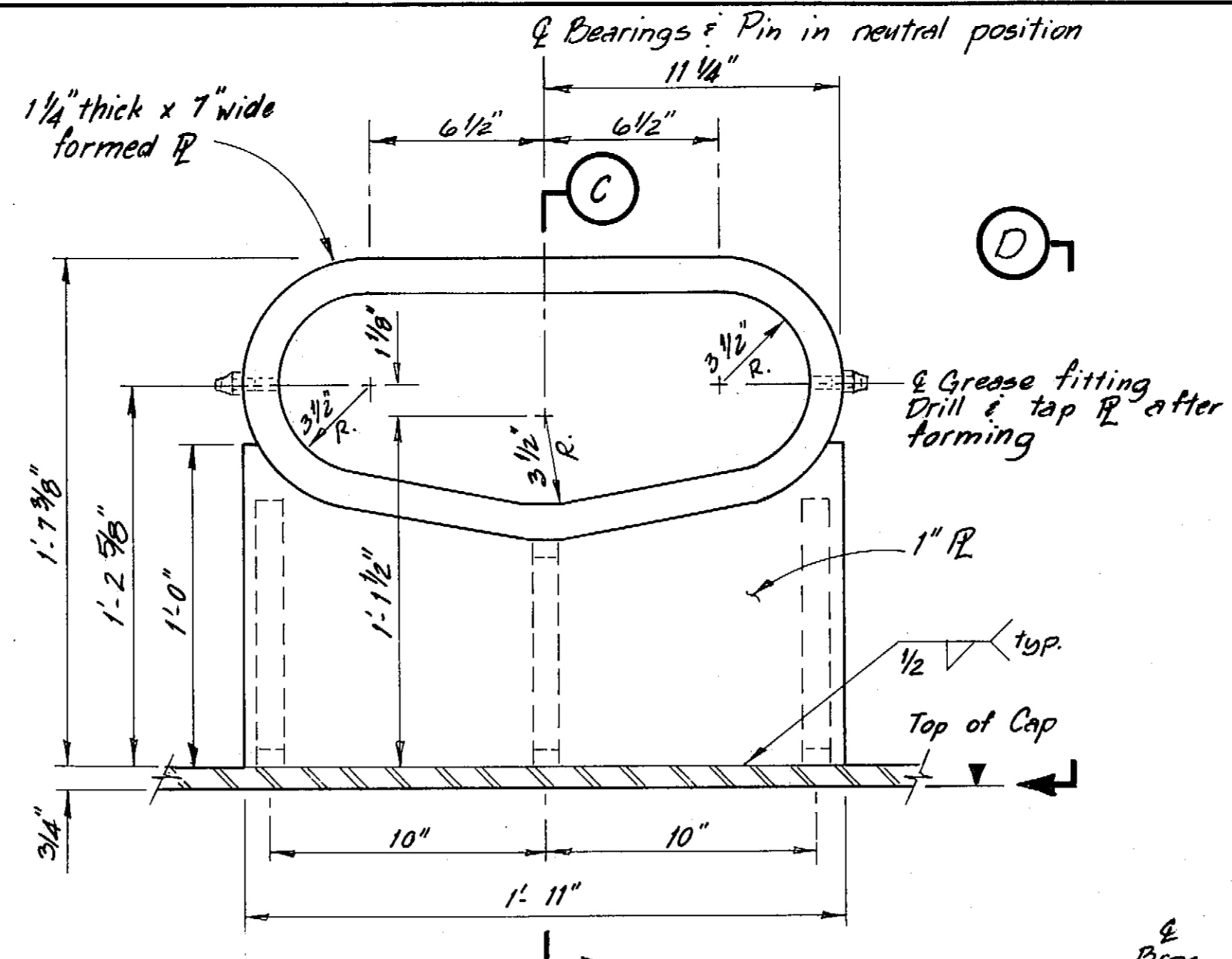
SECTION B-B



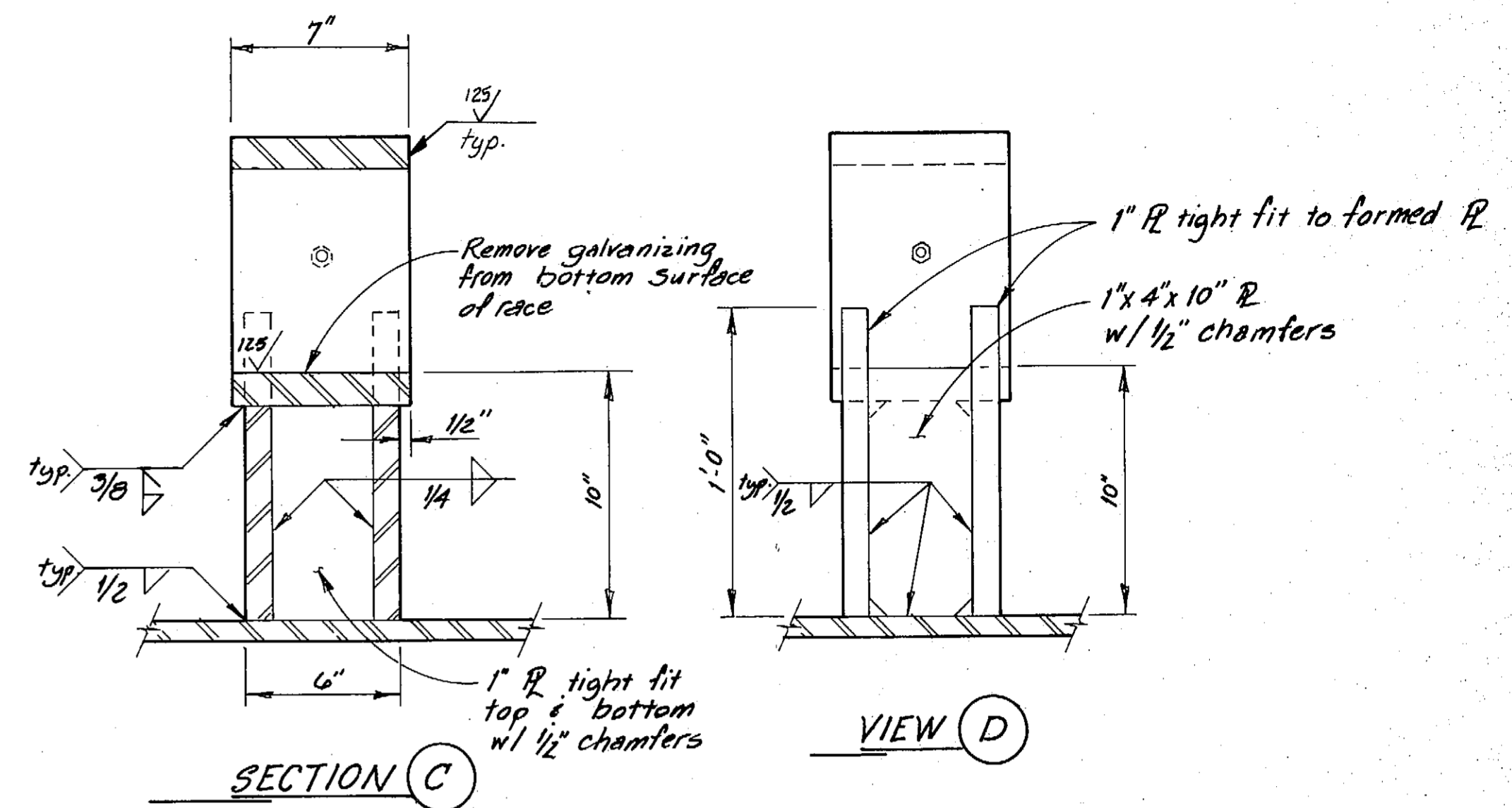
STAMP		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
TRANSFER BR. / APPROACH ABUTMENT		
SCALE As Noted	SURVEYED	APPROVED
DESIGNED BS	DRAWN BS	
CHECKED BS	DATE 1-12-89	
PROJECT NUMBER A38502	SHEET 29 OF 61	



LOWER ASSEMBLY BEARING - PLAN  
1" = 1'-0"  
0 6 12  
Inches

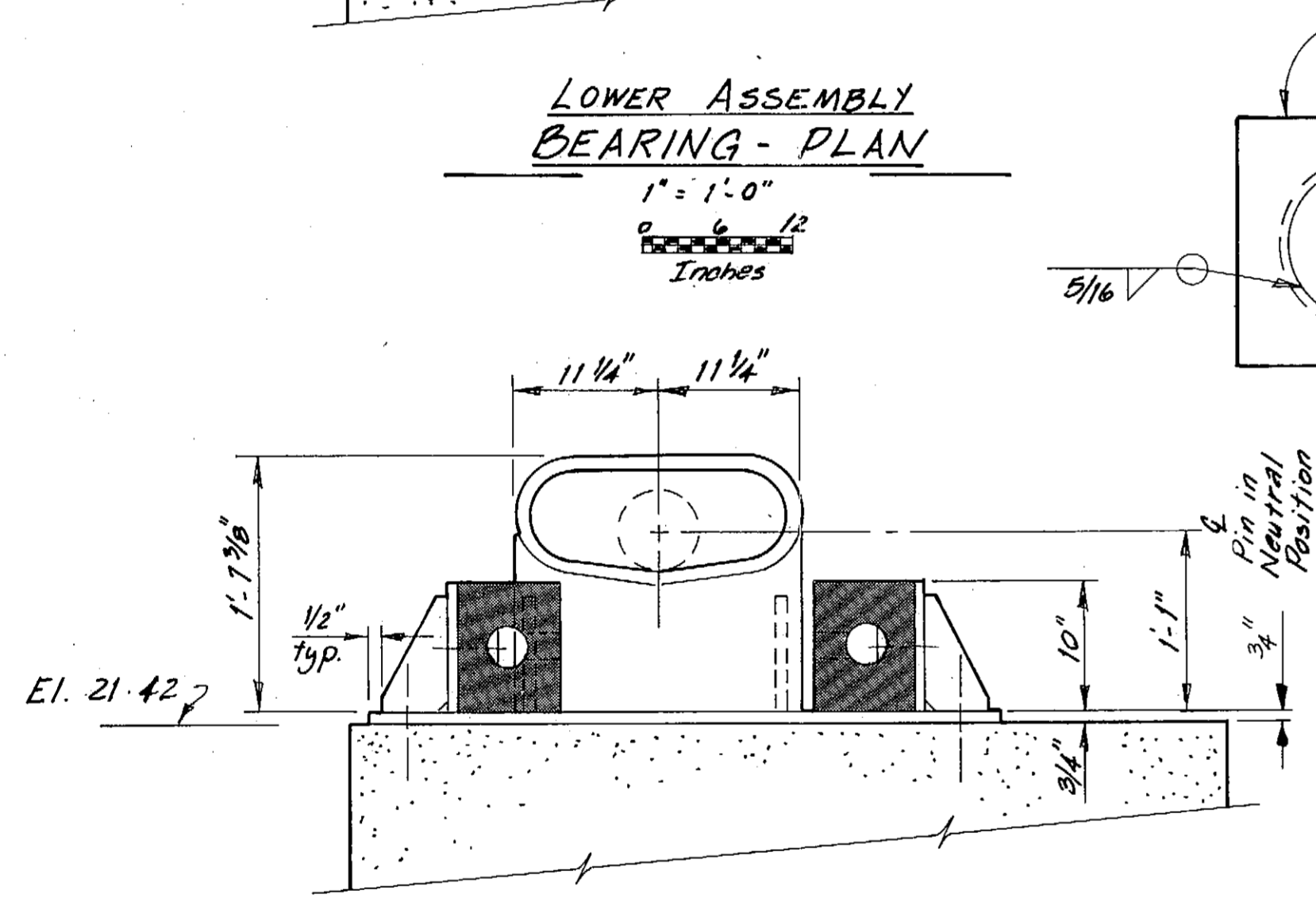


LOWER ASSEMBLY BEARING - DETAIL  
3/16" = 1"

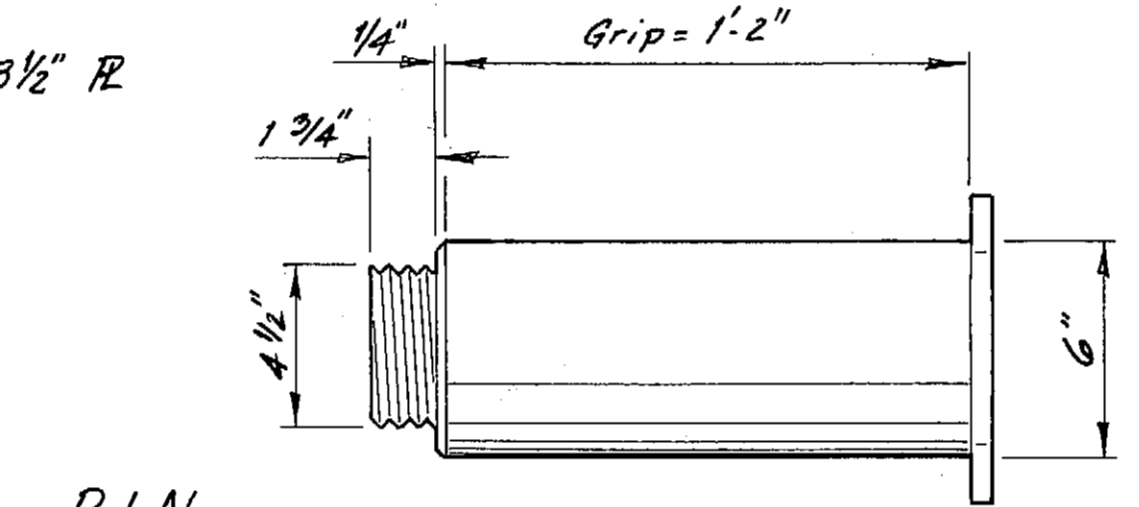


SECTION C

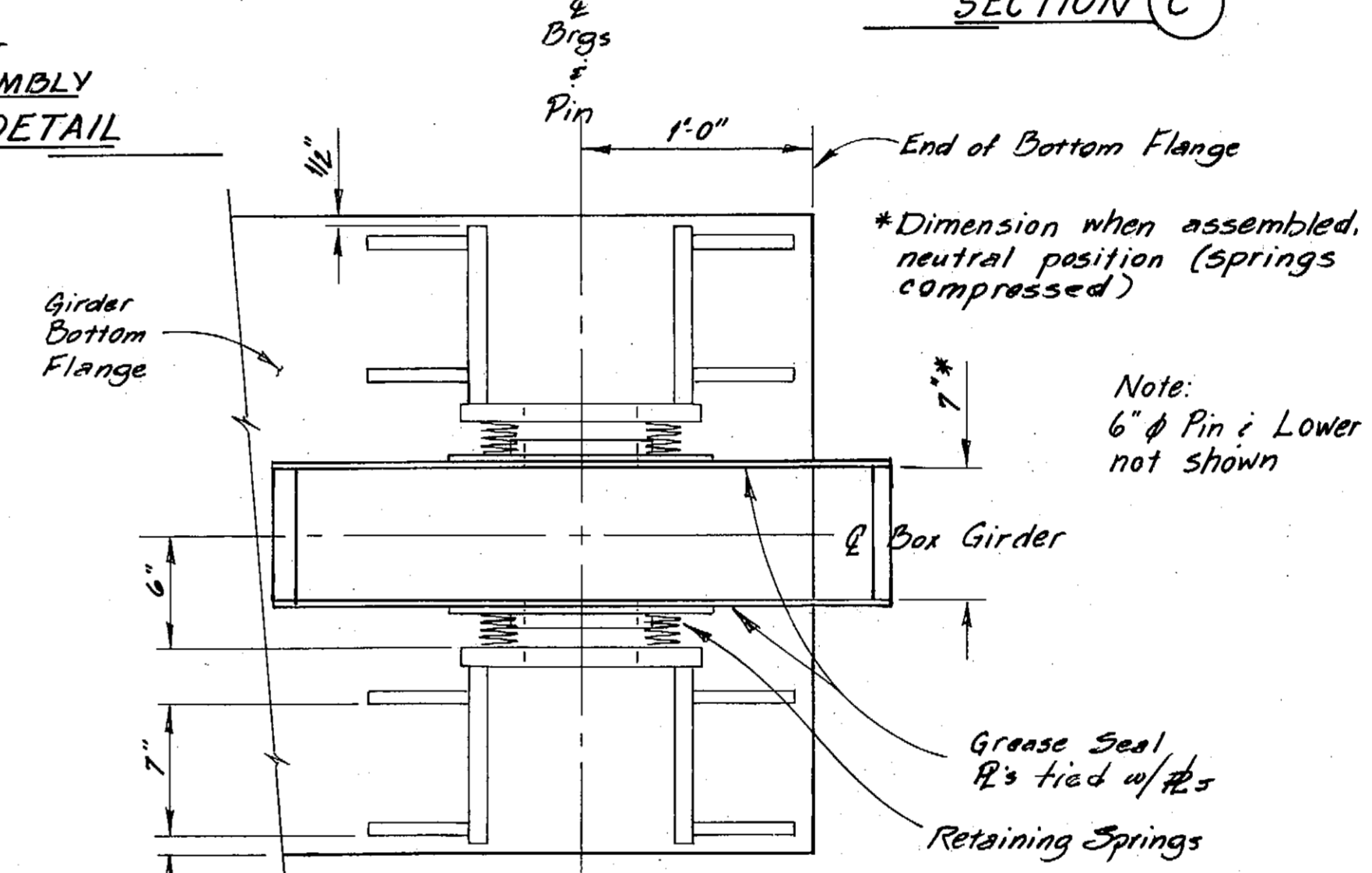
VIEW D



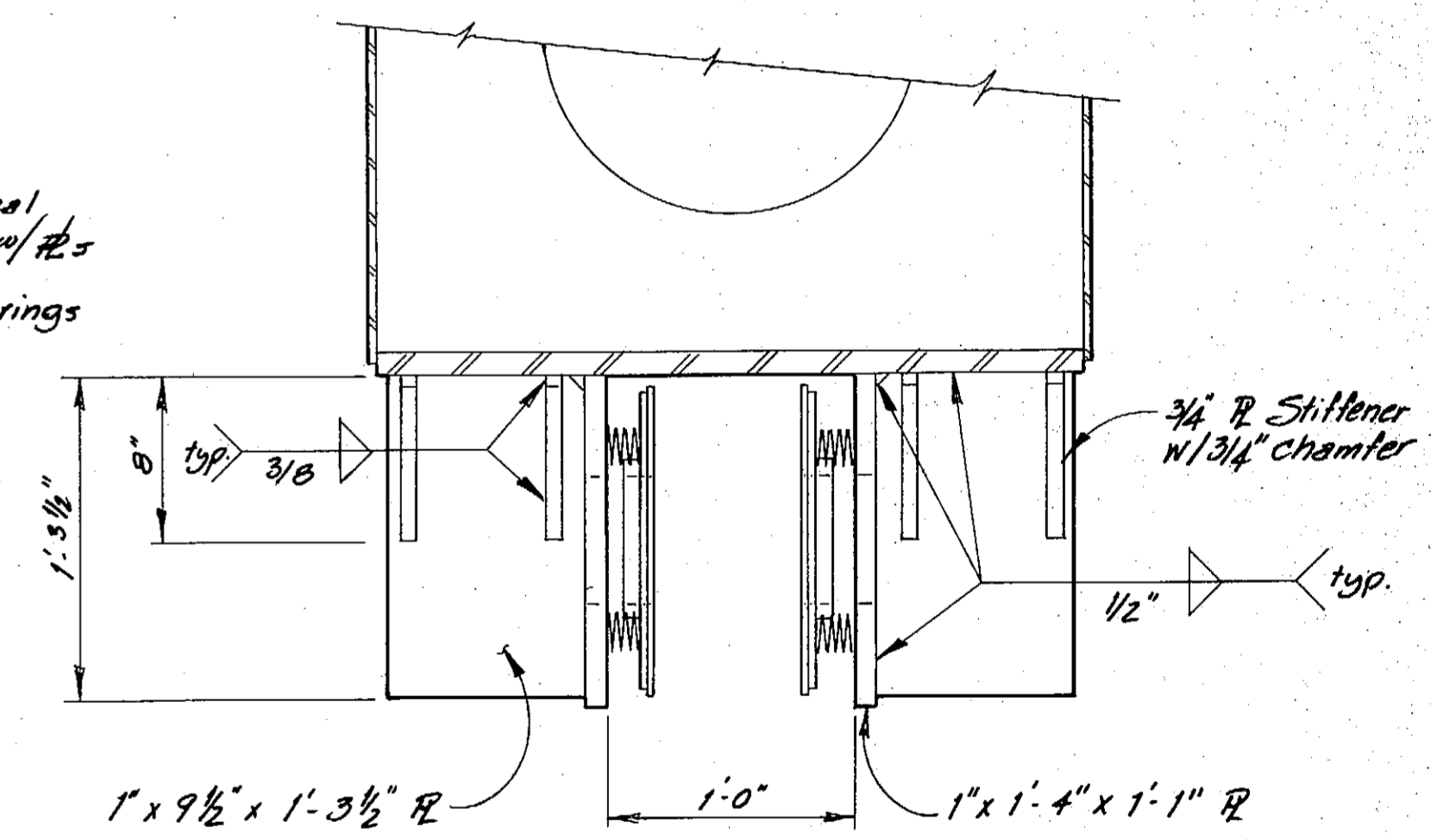
LOWER ASSEMBLY BEARING - ELEV.  
1" = 1'-0"



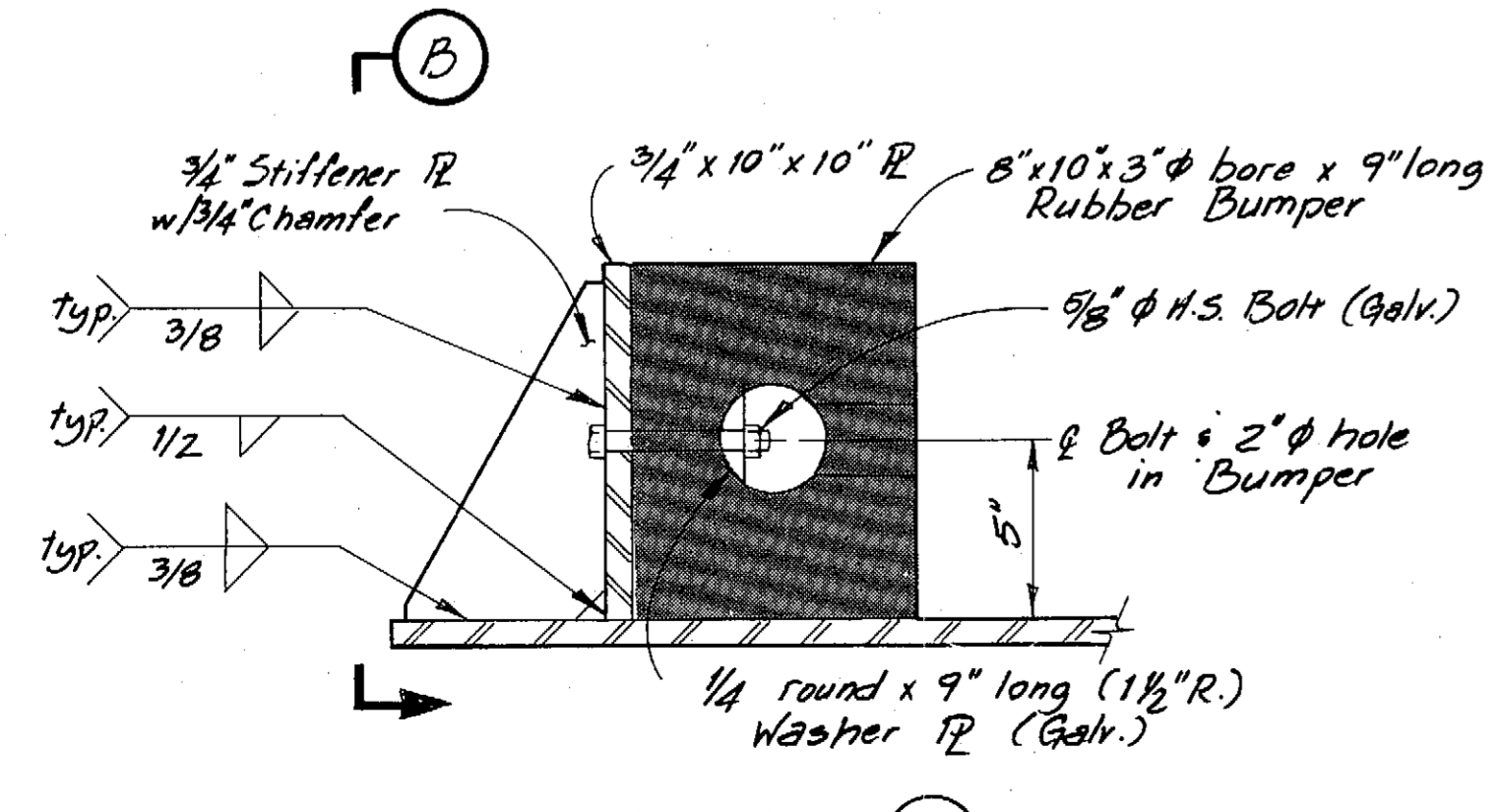
SEAL R  
1" = 1'-0"  
2 Req'd. per Bearing



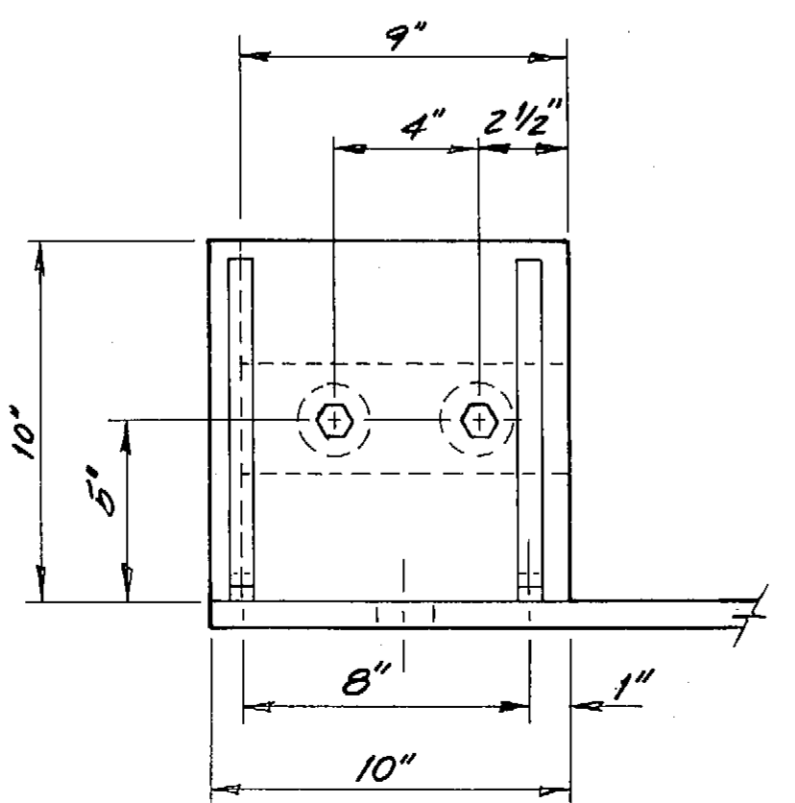
UPPER ASSEMBLY BEARING - PLAN  
1 1/2" = 1'-0"



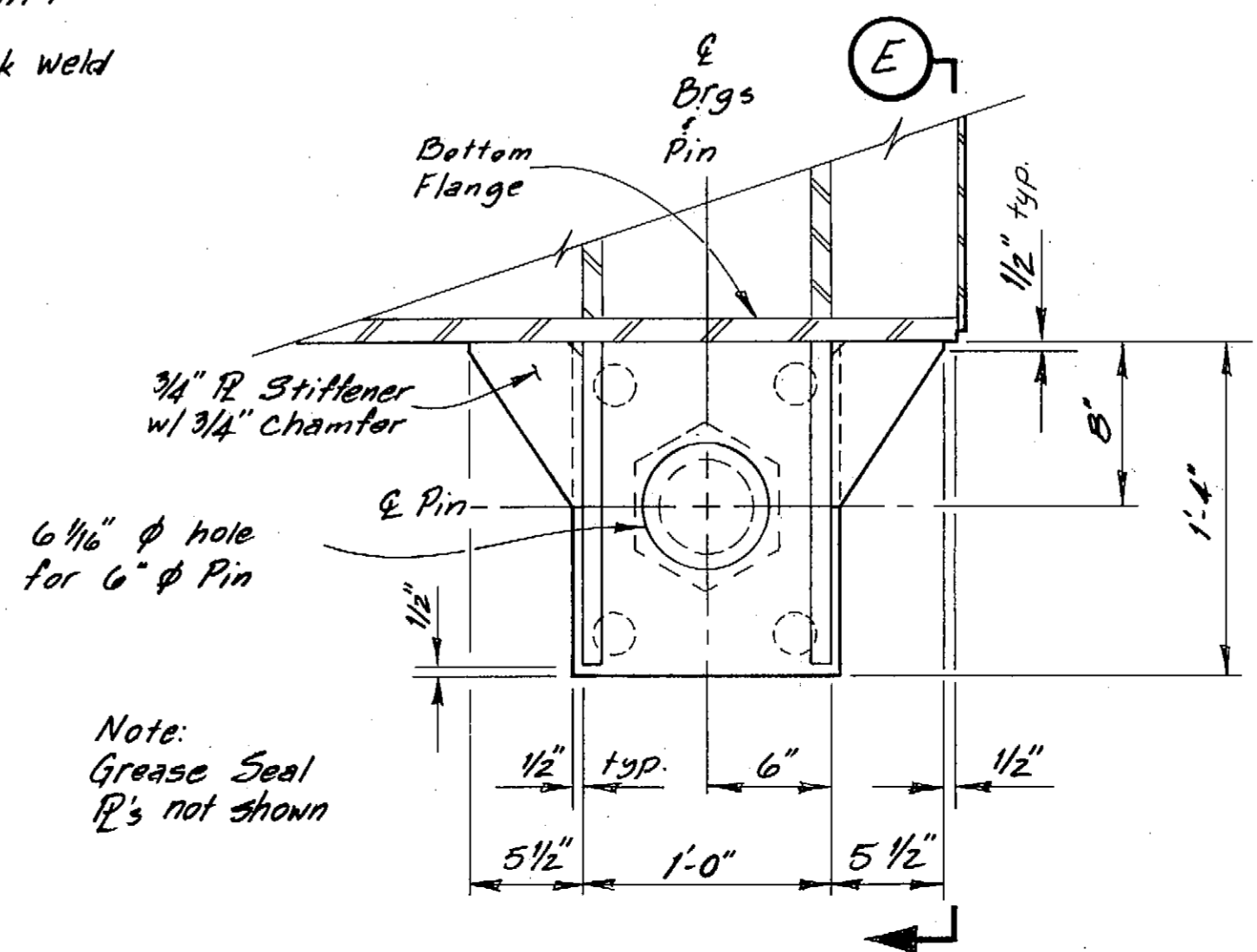
VIEW E  
1 1/2" = 1'-0"



SECTION A  
3/16" = 1"  
0 6 12  
Inches

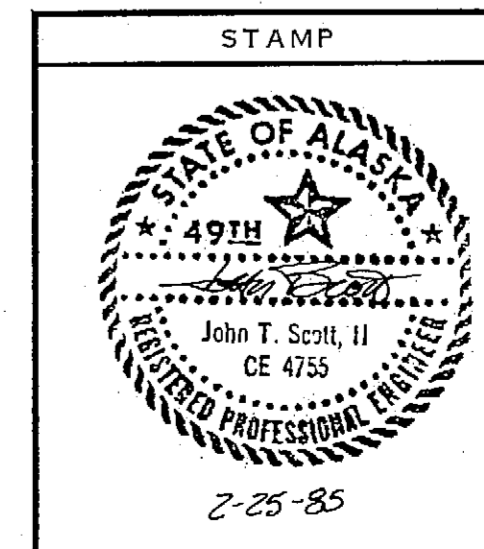


VIEW B  
3/16" = 1"

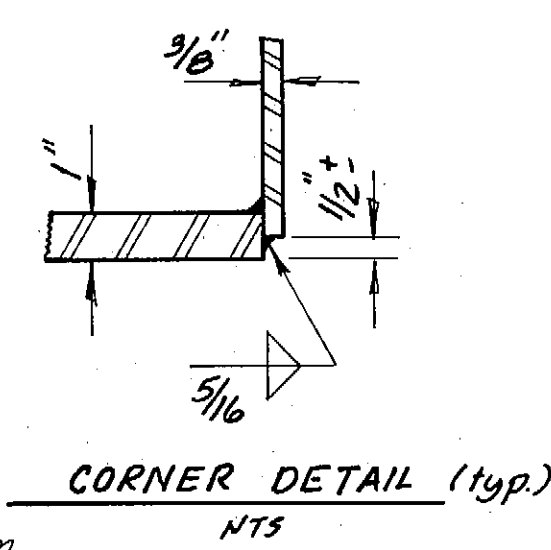
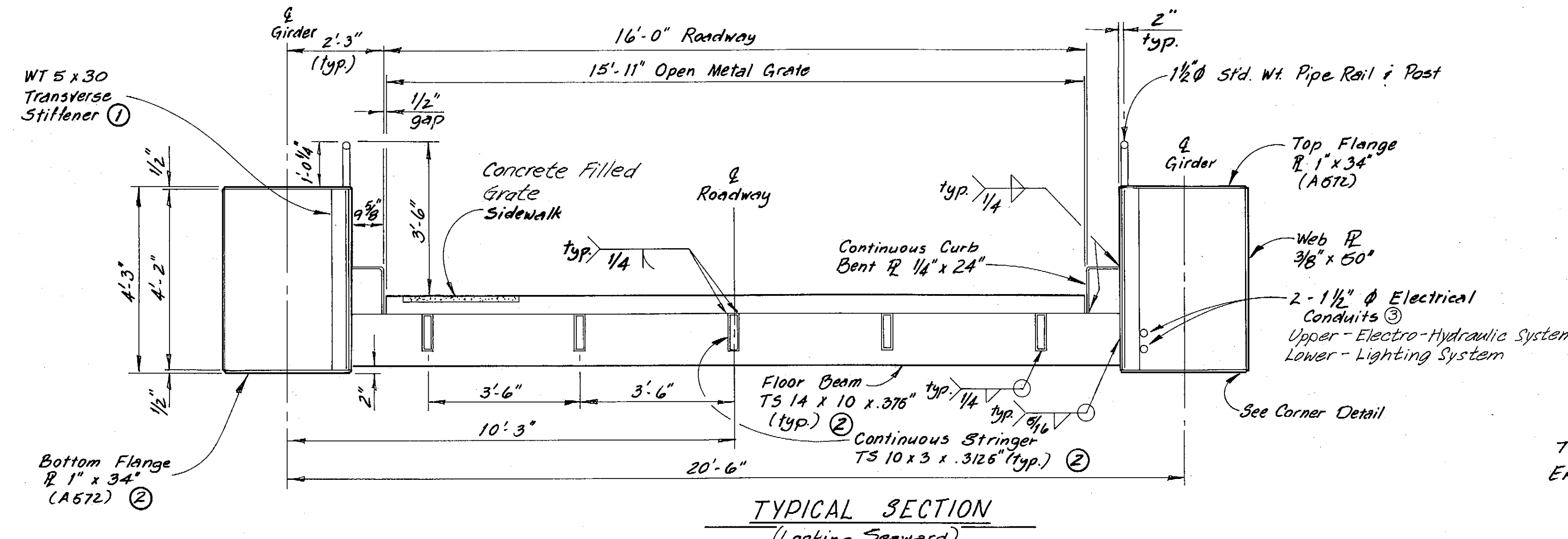


UPPER ASSEMBLY BEARING - ELEV.  
1 1/2" = 1'-0"

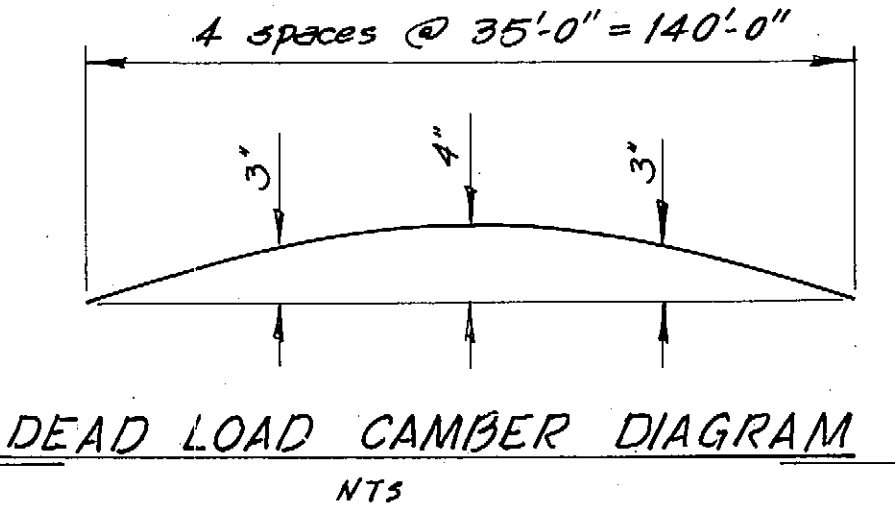
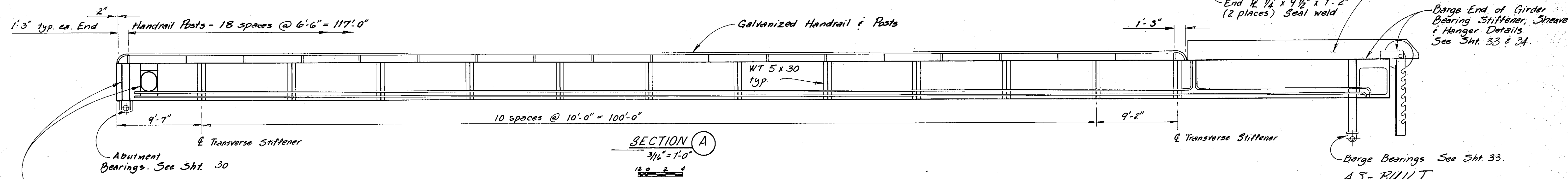
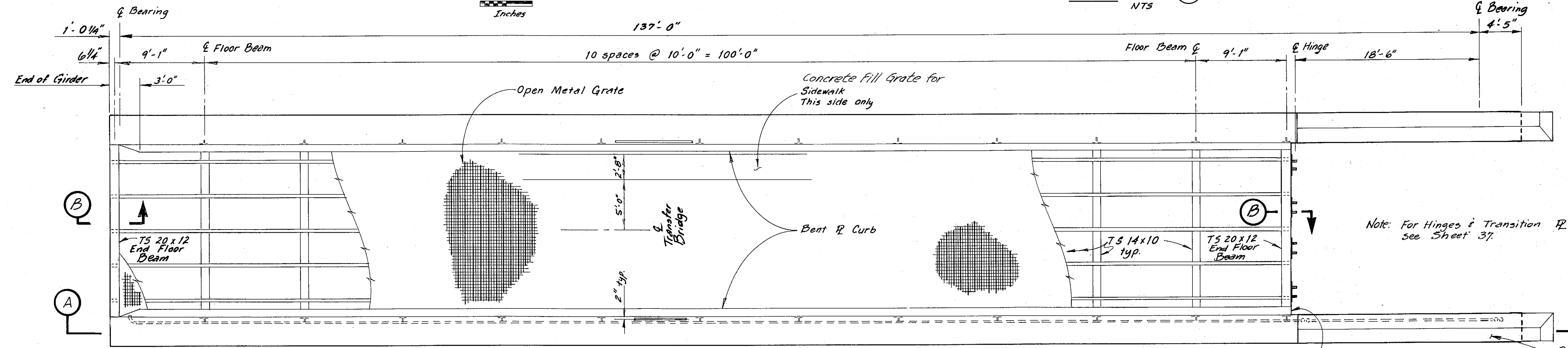
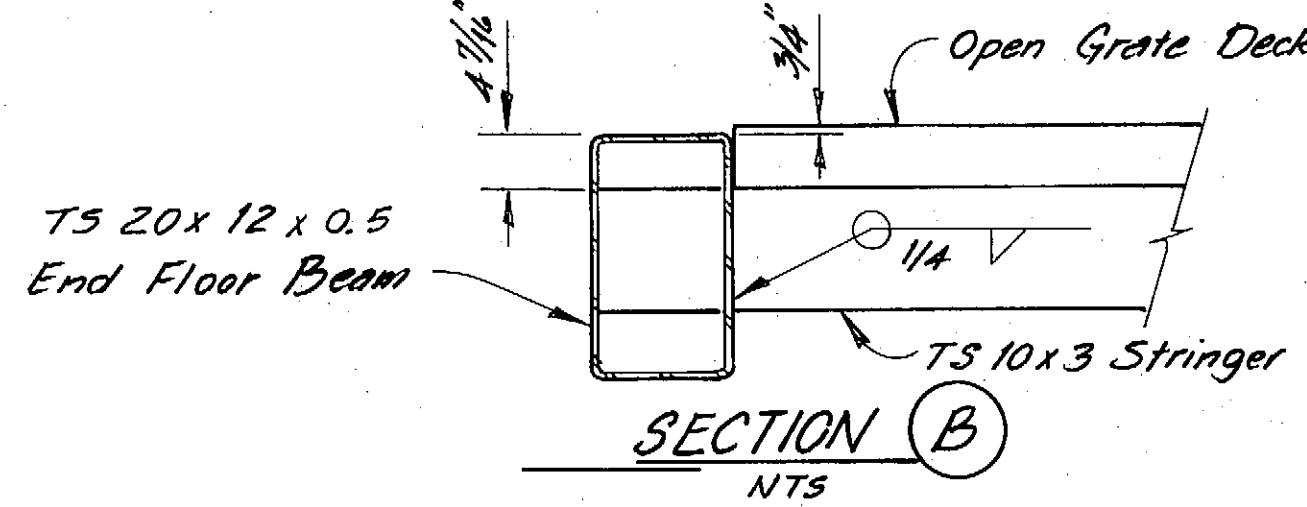
Note: Grease Seal R's not shown



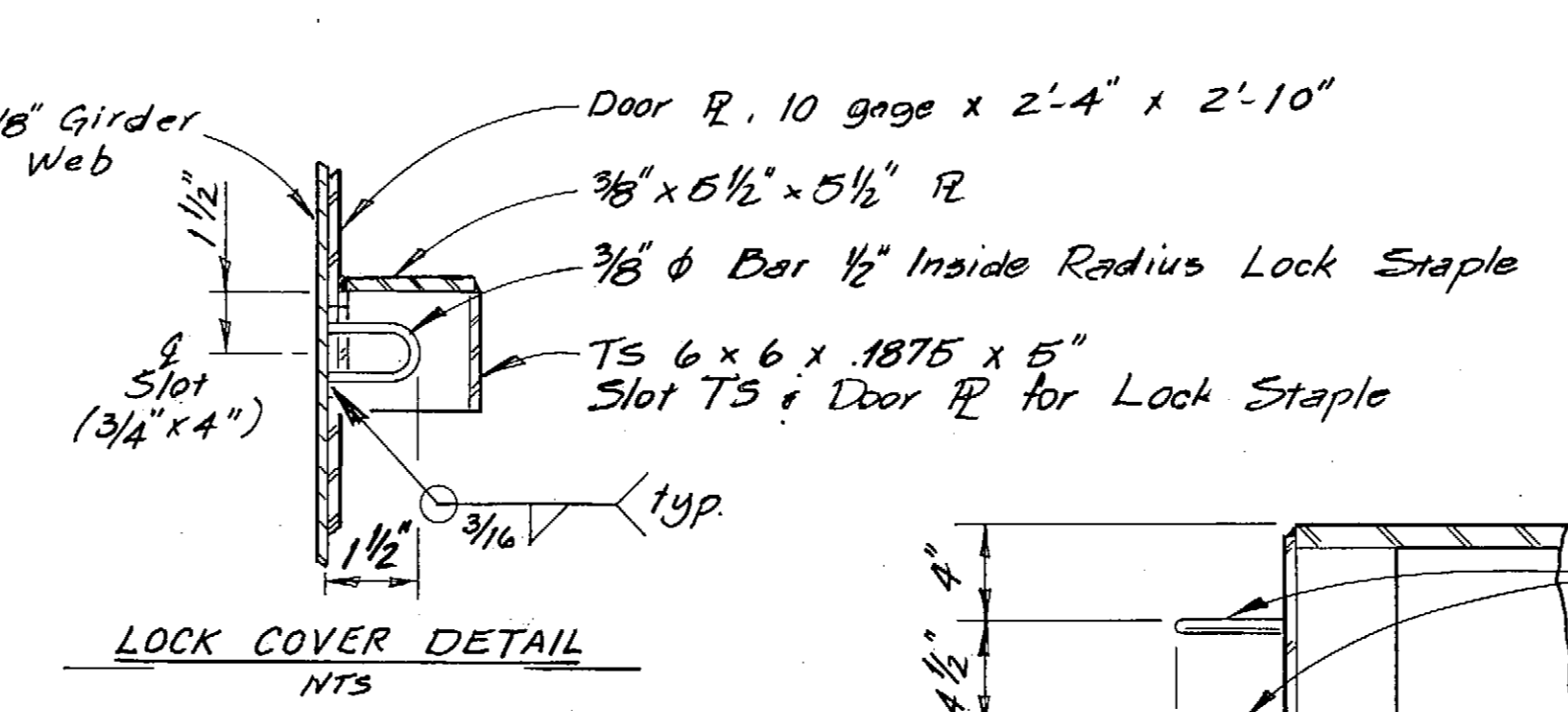
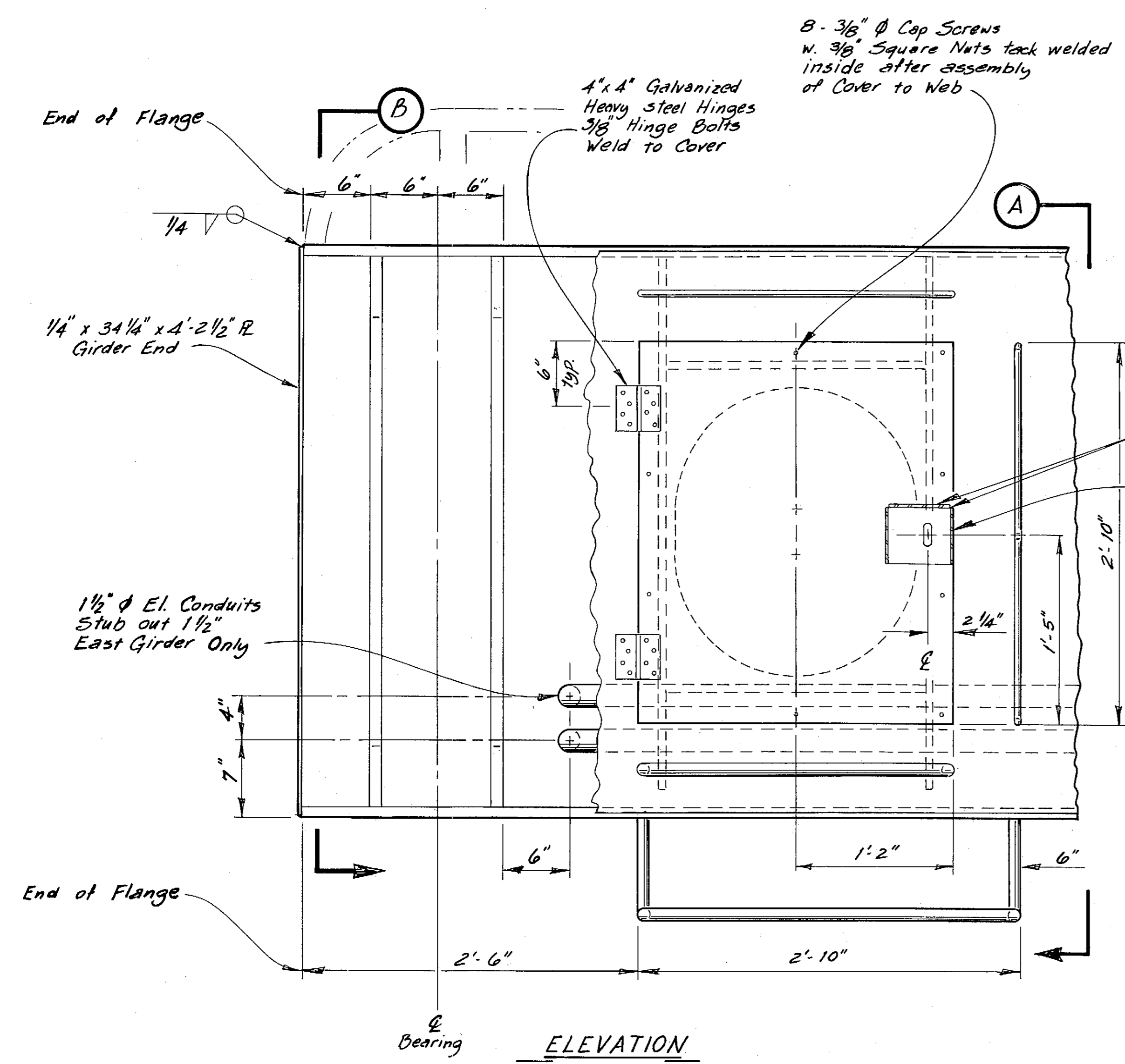
AS-BUILT		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg	Alaska	
<b>TRANSFER BRIDGE ABUTMENT BEARINGS</b>		
SCALE As Noted	SURVEYED	APPROVED
DESIGNED JS	DRAWN DB	
CHECKED LJB	DATE 1-84	
PROJECT NUMBER A38502	SHEET 30 OF 62	



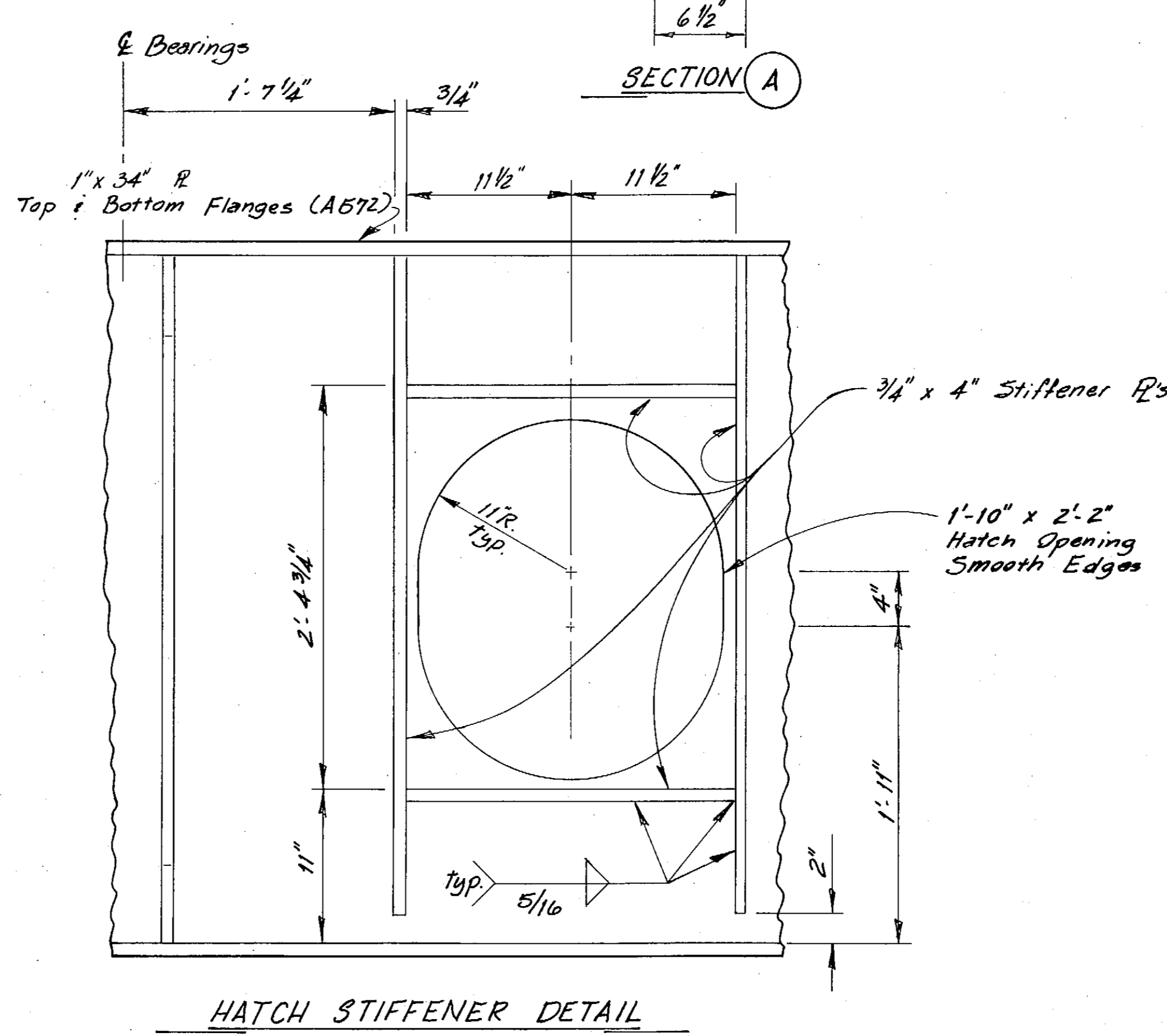
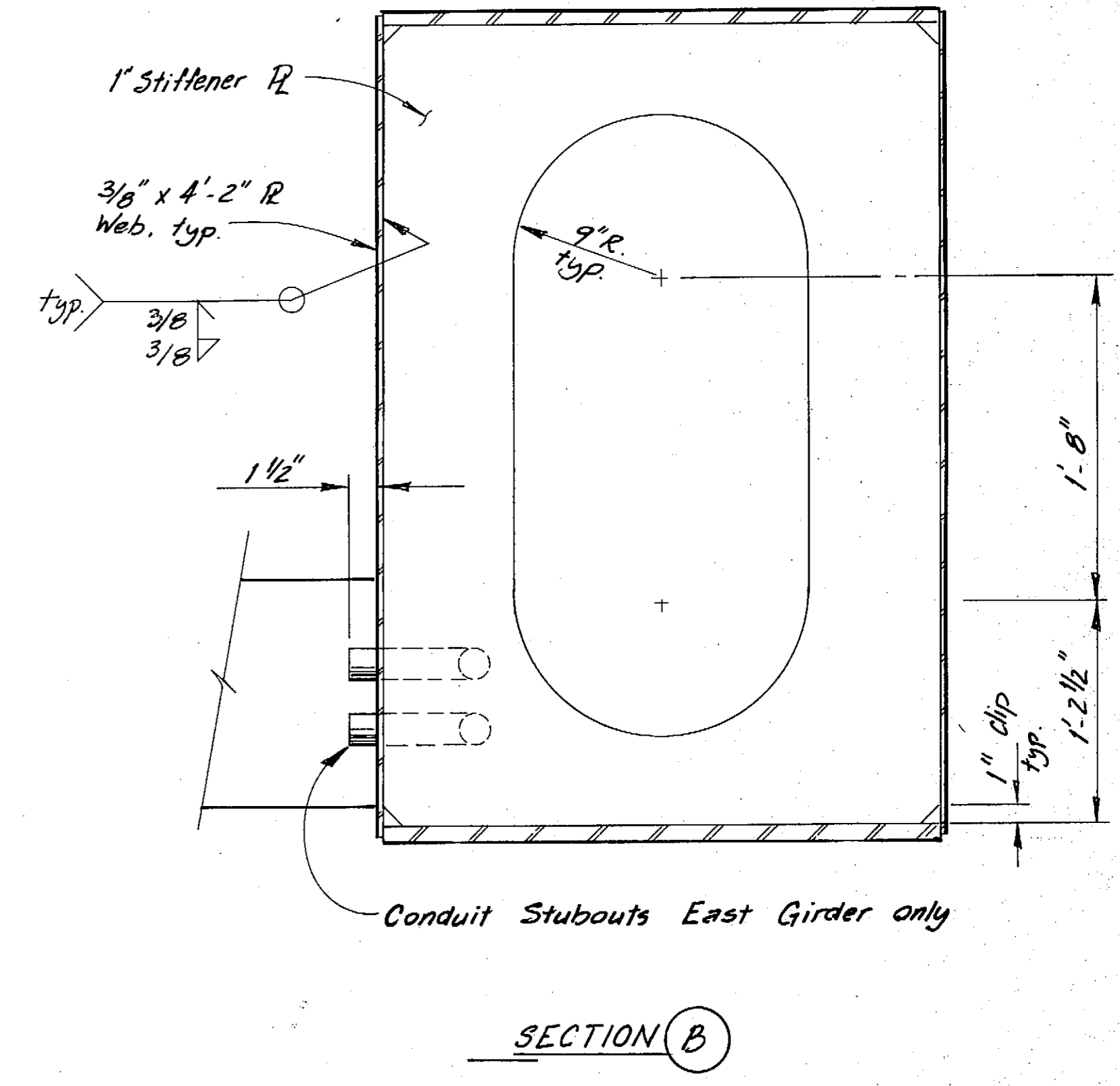
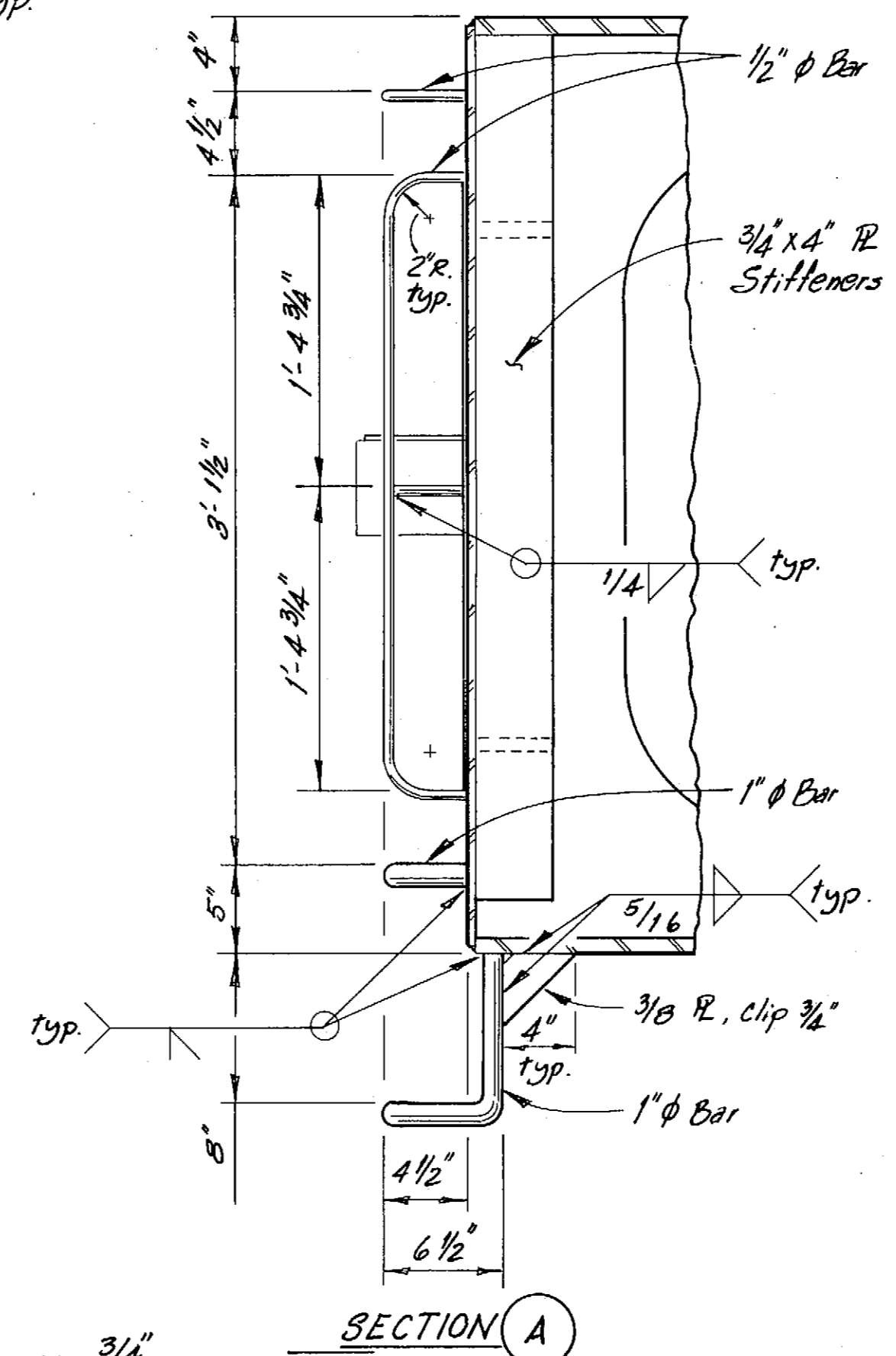
- NOTES:**
- ① Fillet weld (9/16") each side of Transverse Stiffener and all contact surfaces except bottom flange tight fit only. Start side weld 1 1/2" from bottom of Stiffener.
  - ② Main members subjected to tensile stress.
  - ③ Support conduits at 10'-0" o.c.



STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Petersburg	Alaska
<b>TRANSFER BRIDGE PLAN</b>			
SCALE <i>As Noted</i>	SURVEYED	APPROVED	
DESIGNED <i>LLP</i>	DRAWN <i>DB</i>		
CHECKED <i>JS</i>	DATE <i>11-83</i>		
PROJECT NUMBER <b>A38502</b>	SHEET <b>31</b> OF <b>61</b>		



Note:  
Hatches are on the outside web of each Girder. 2 req'd.

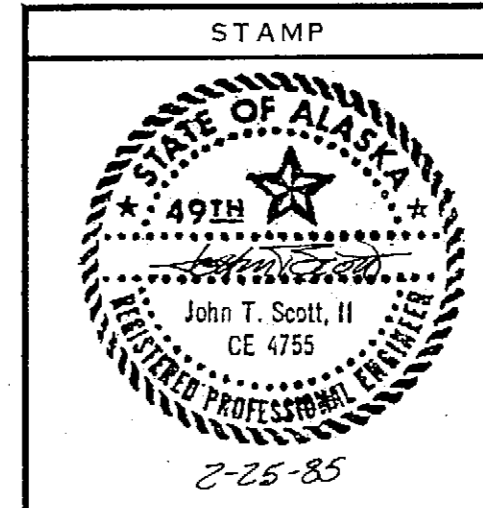
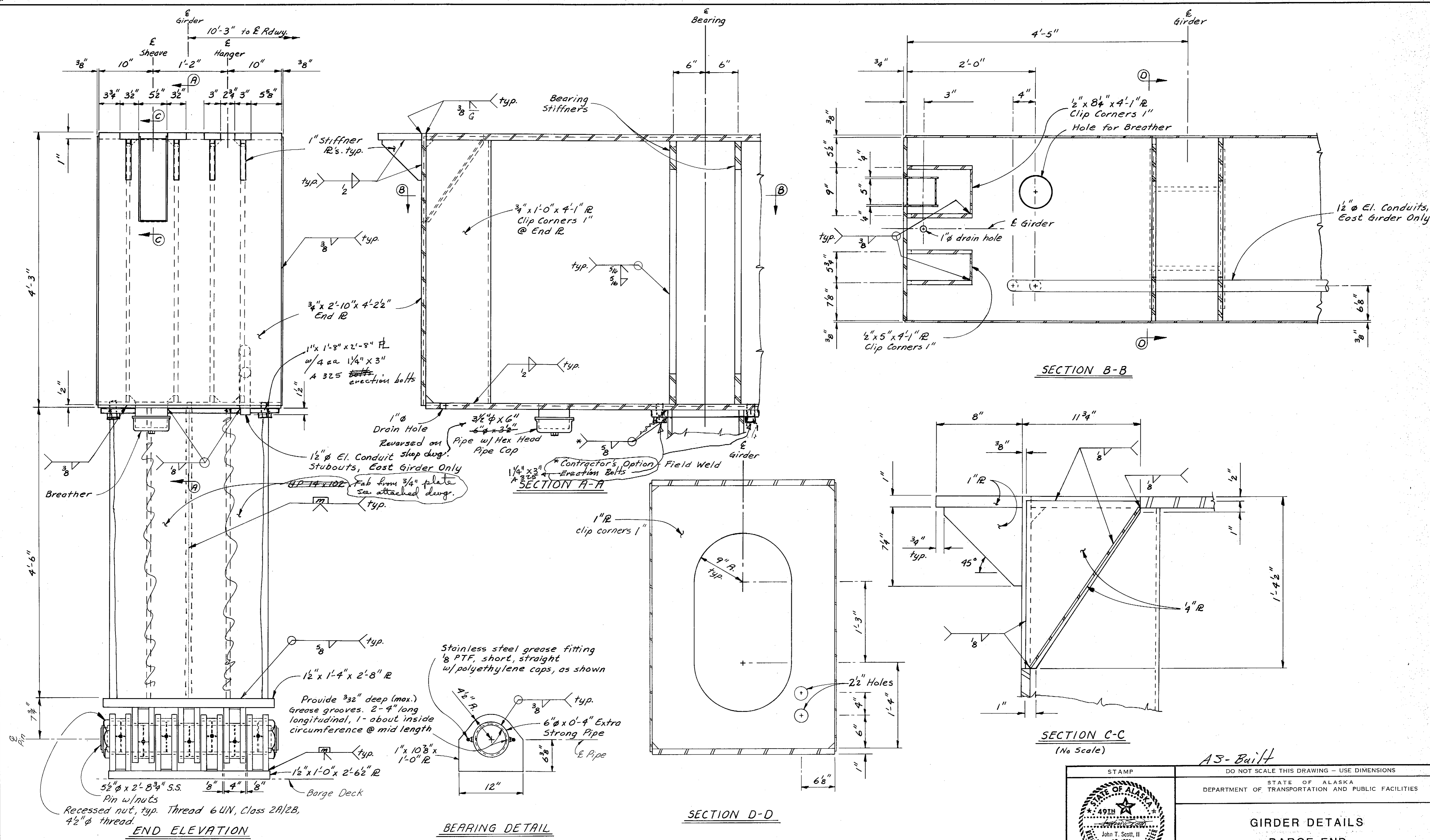


-Typ. scale except as shown  
1 1/2" = 1'-0"  
0 6 12  
Inches

**AS-BUILT**

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
	Petersburg	Alaska
<b>GIRDER DETAILS ABUTMENT END</b>		
SCALE <i>As Noted</i>	SURVEYED _____	APPROVED _____
DESIGNED <i>JLP</i>	DRAWN <i>DB</i>	
CHECKED <i>JS</i>	DATE <i>11-83</i>	
PROJECT NUMBER <i>A38502</i>	SHEET <i>32</i> OF <i>61</i>	

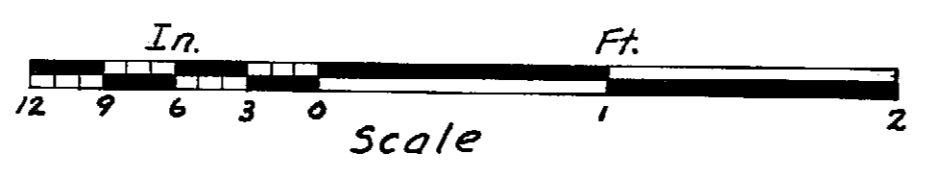


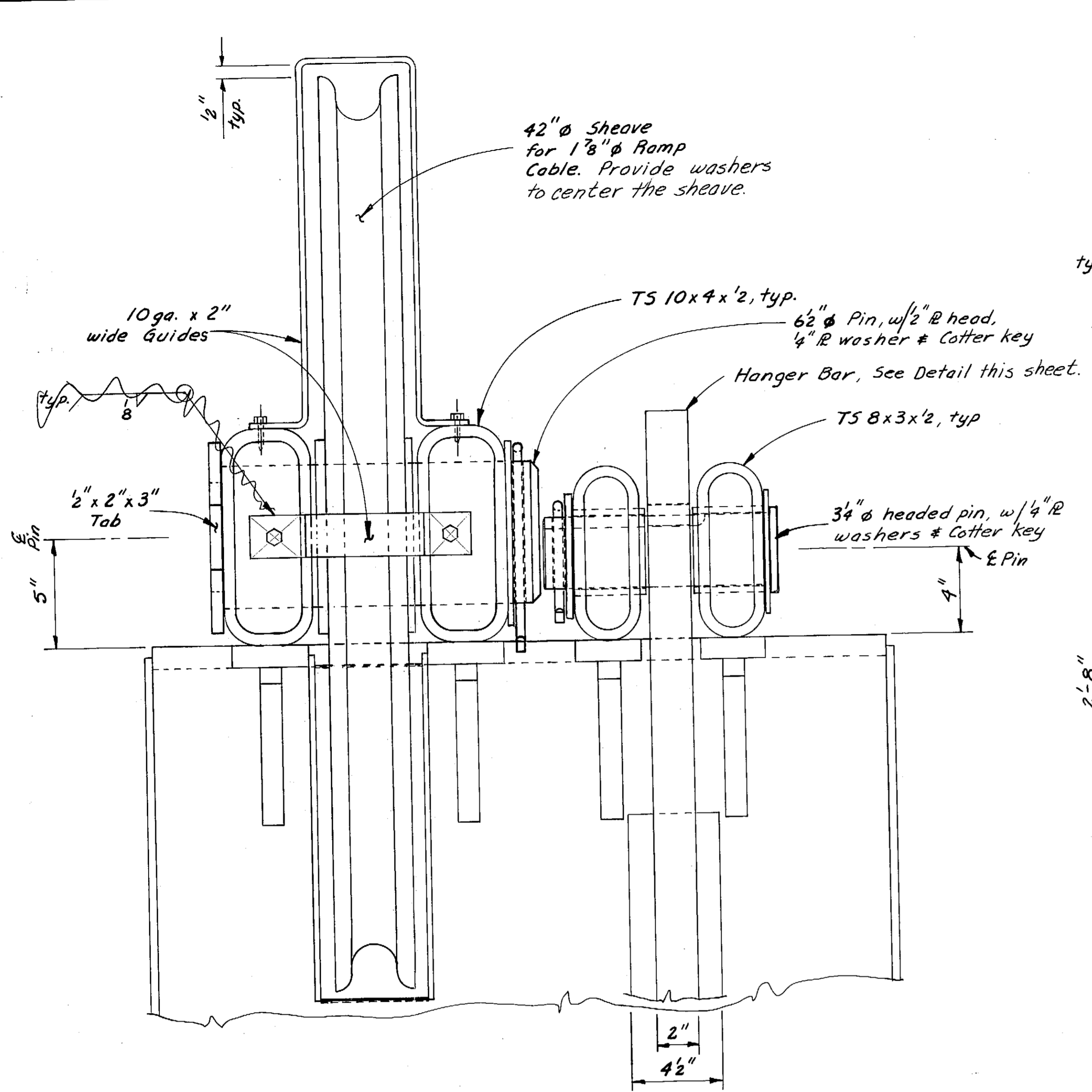
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

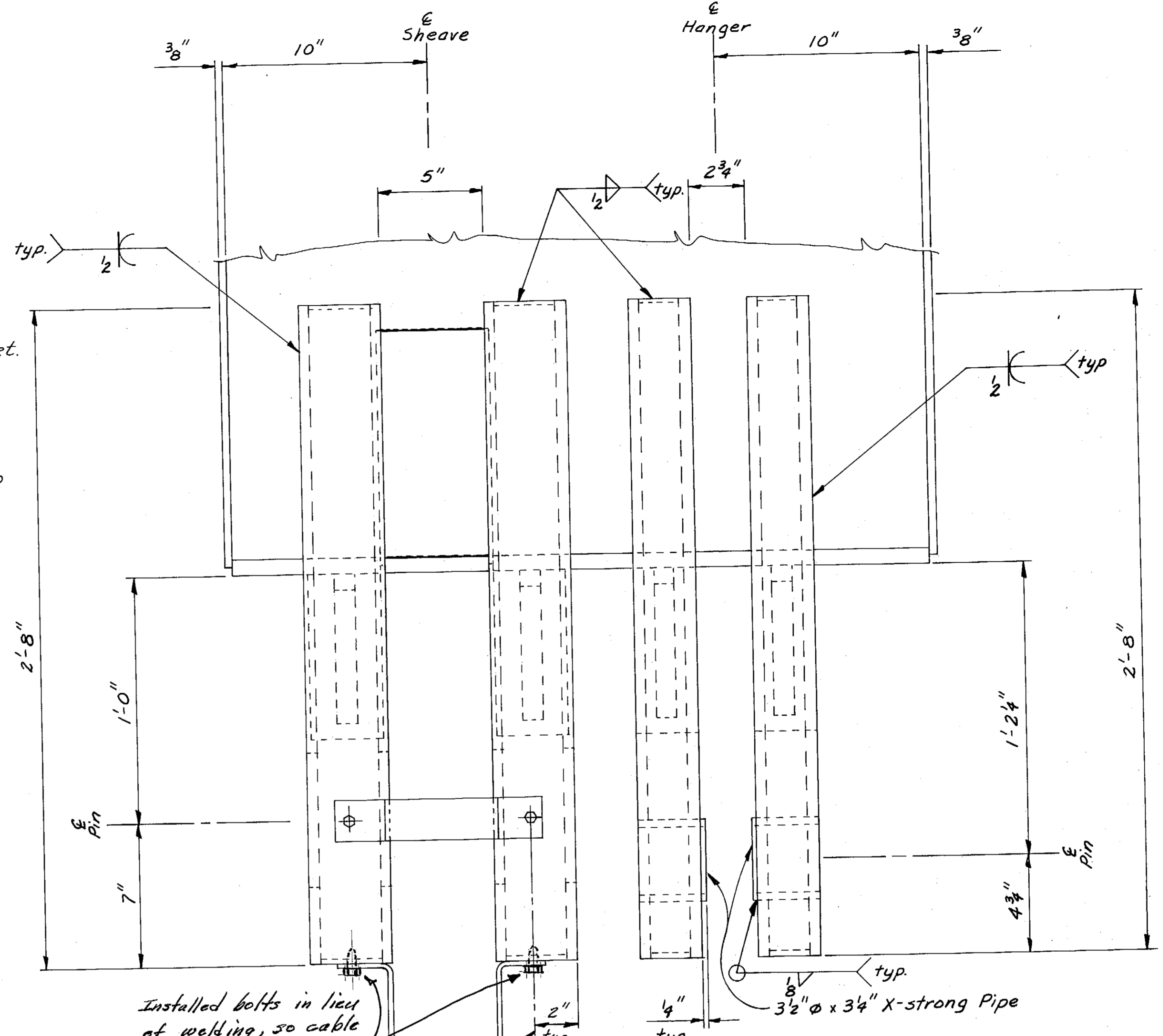
**GIRDER DETAILS  
 BARGE END**

SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: LJB	DRAWN: _____	
CHECKED: LJB	DATE: 2-84	
PROJECT NUMBER: A38502	SHEET 33 OF 62	

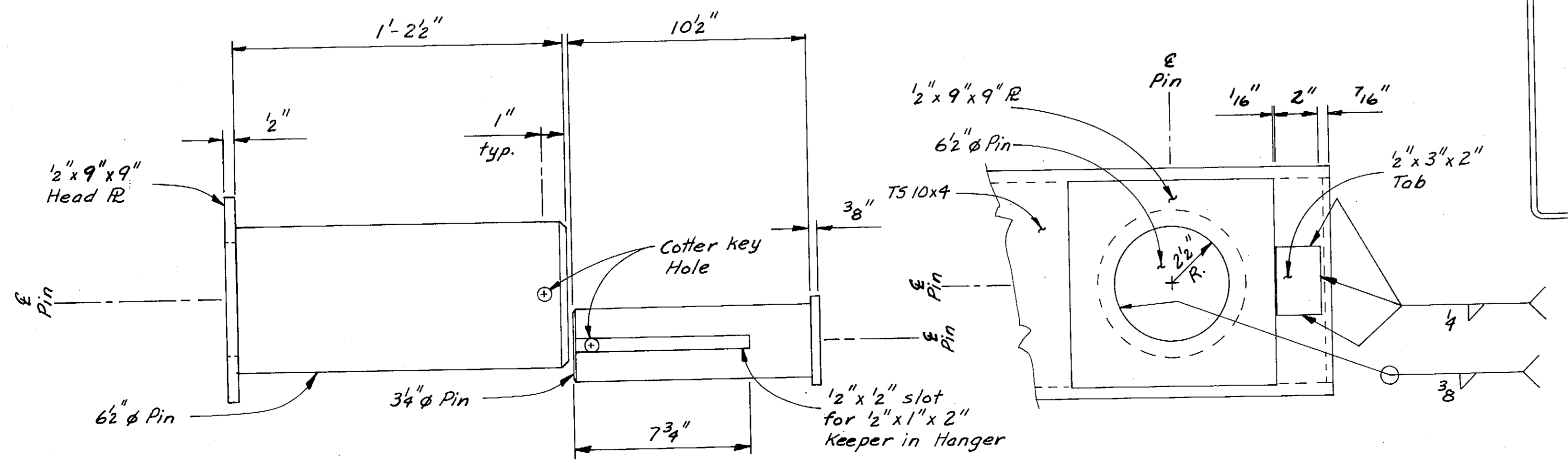




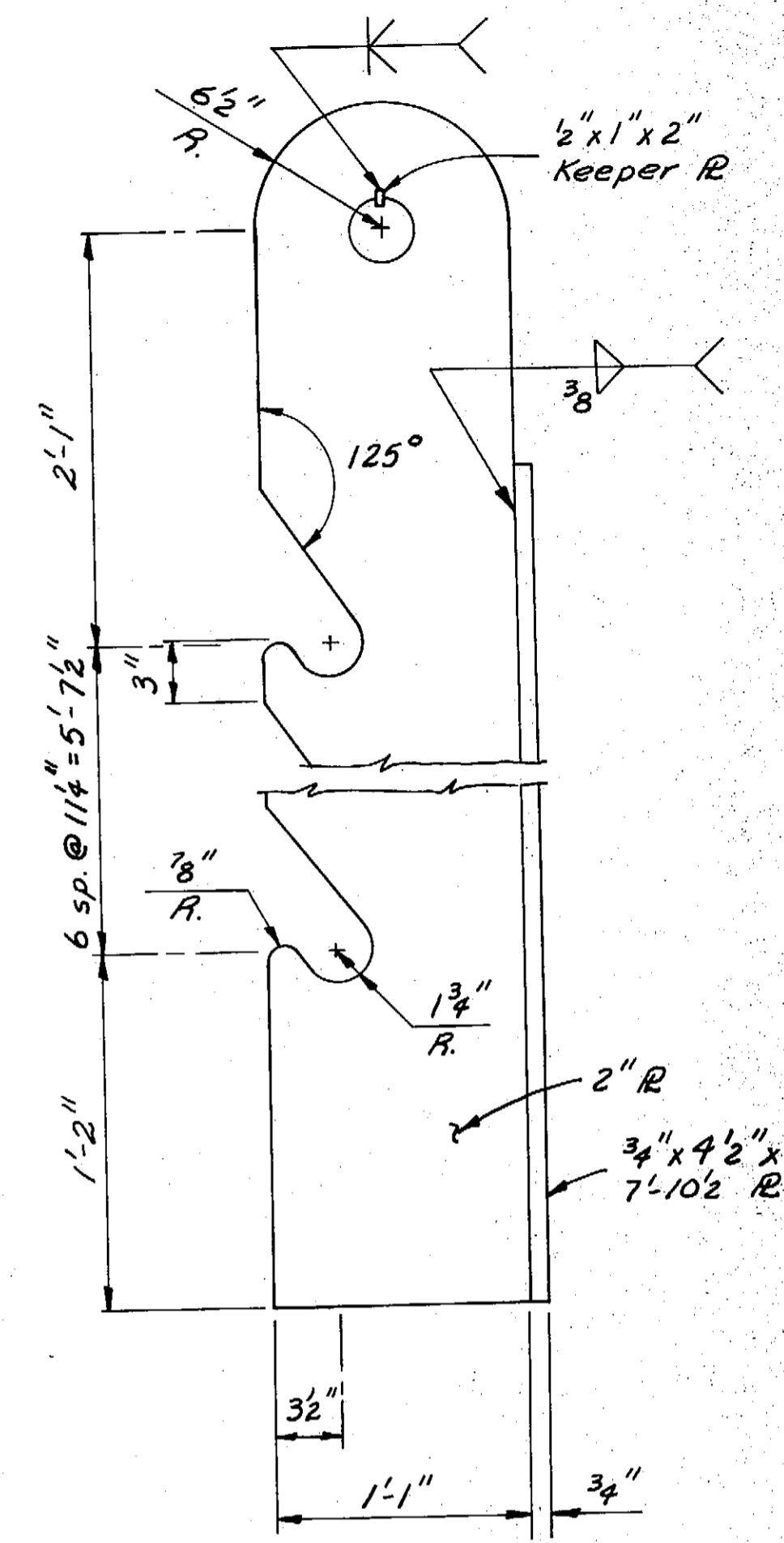
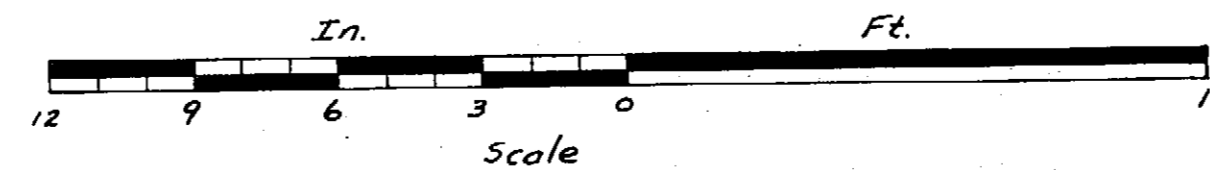
ELEVATION



PLAN  
(Sheave, Hanger & Pins not shown)



PIN DETAILS



HANGER BAR  
(No Scale)

- Note:
1. Cable shall be 1 3/8"  $\phi$  x 6 x 25, Right regular lay, Extra High Strength IWRC (Minimum Breaking Strength = 170 tons.)
  2. The sheave shall have a 3/16" min. tread  $\phi$  & be fitted with roller bearings & grease fittings.
  3. Close all tube ends w/ 1/4" R and seal weld.

**A.S.-BUILT**

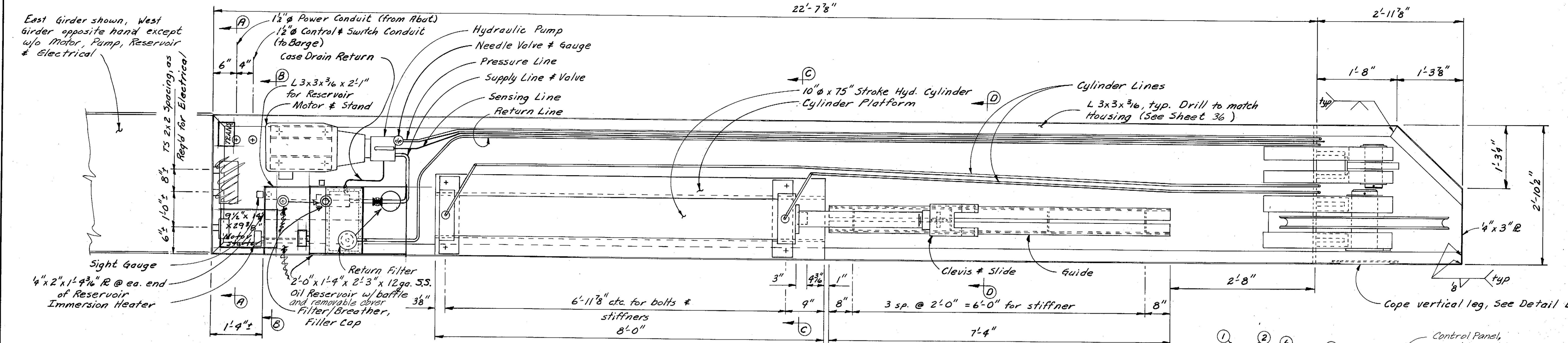
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

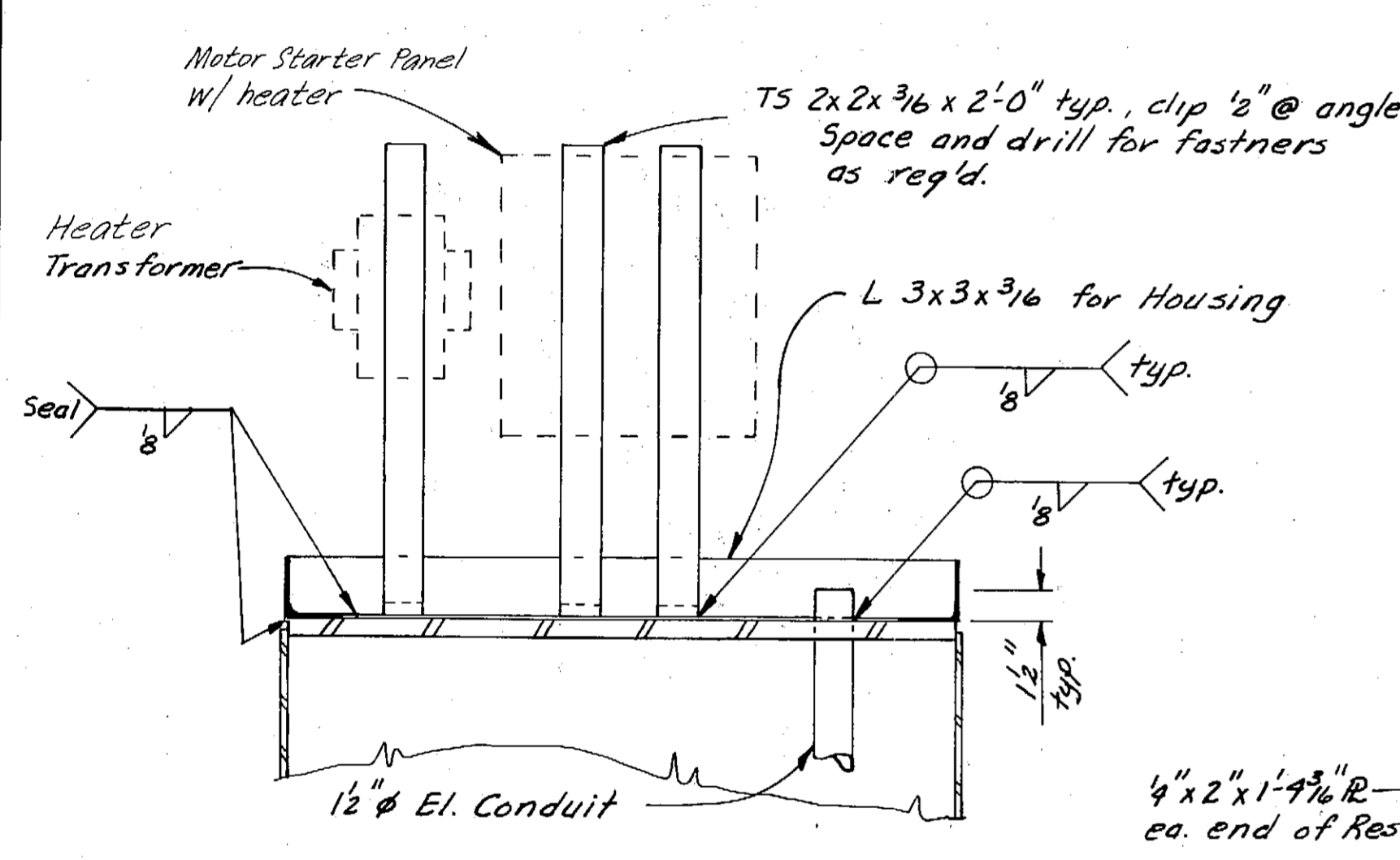
**GIRDER DETAILS**  
**BARGE END**

SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: JS	DRAWN: JS	
CHECKED: LJB	DATE: 2-89	
PROJECT NUMBER: A38502	SHEET 34 OF 62	

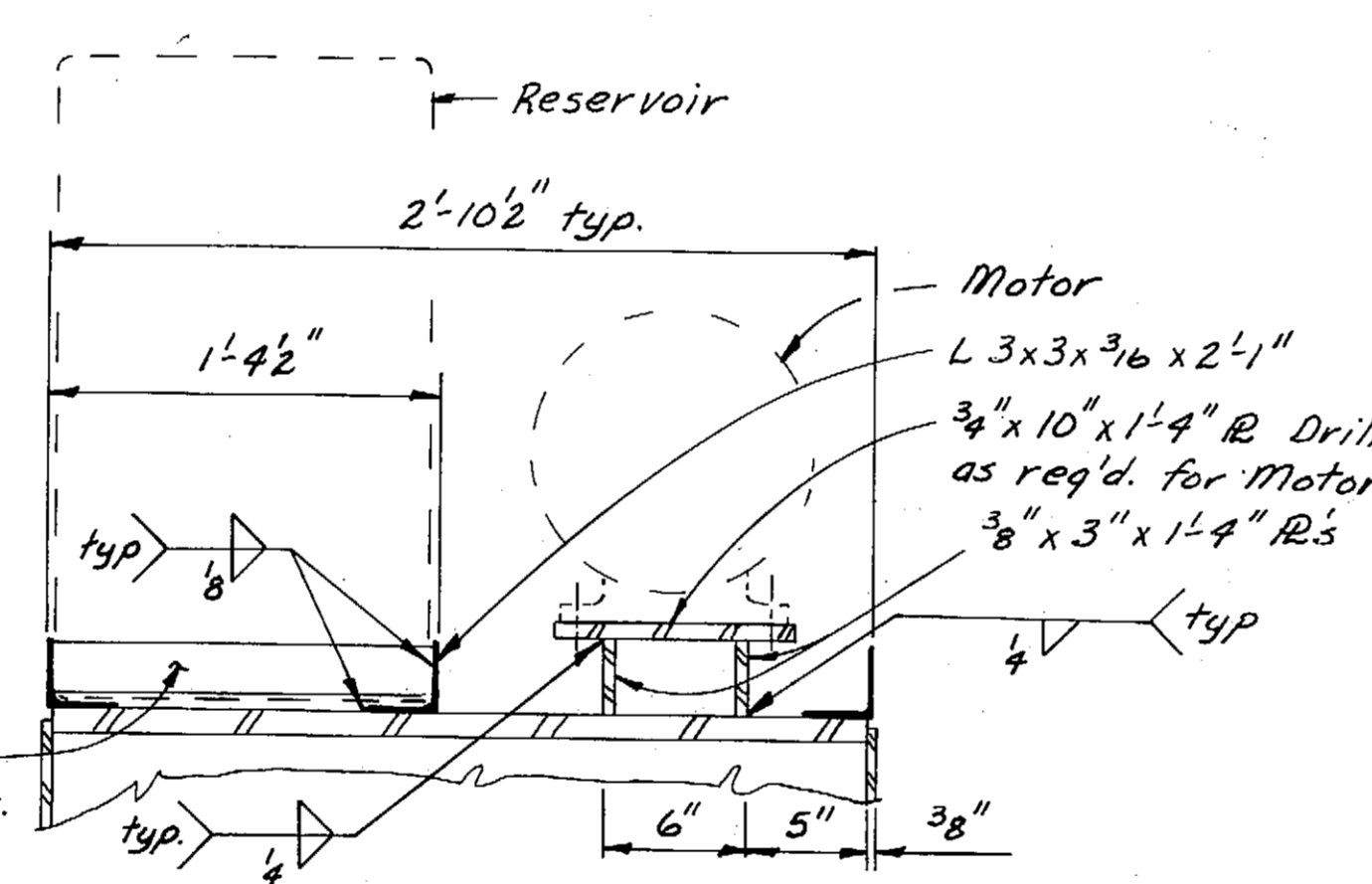
John T. Scott, II  
CE 4755  
REGISTERED PROFESSIONAL ENGINEER  
2-25-85



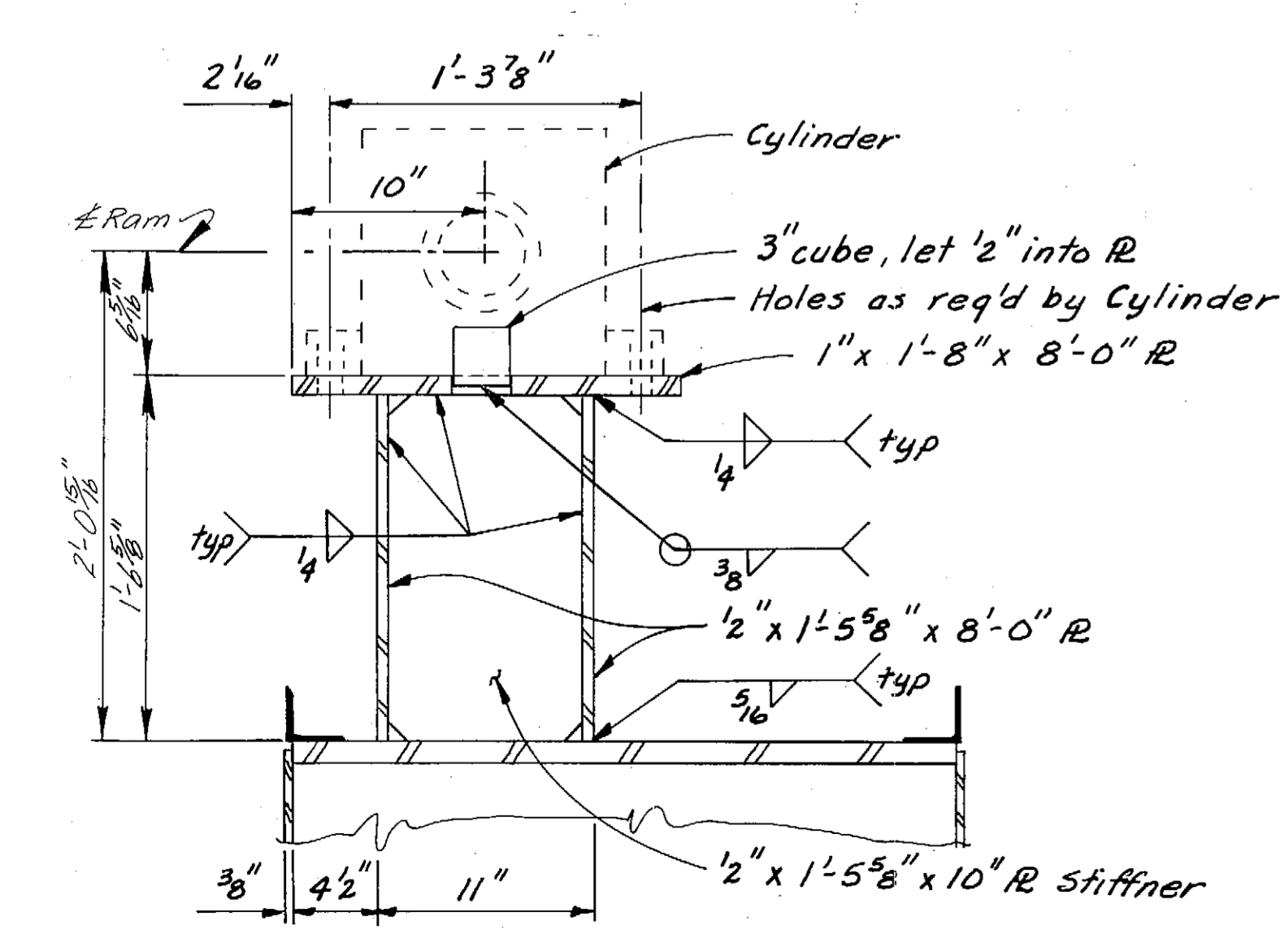
**PLAN VIEW**  
(Housing not shown)



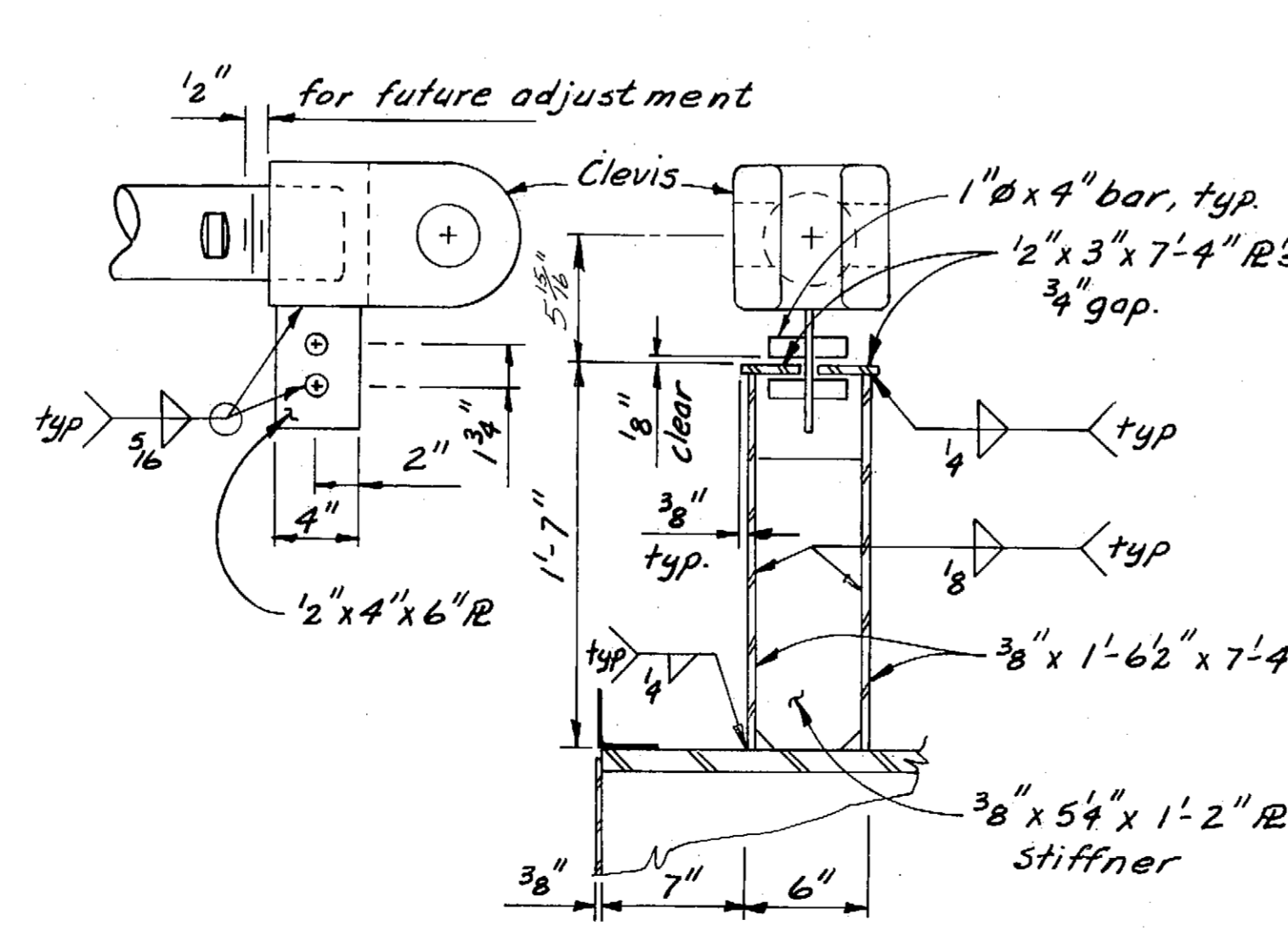
**SECTION AA**



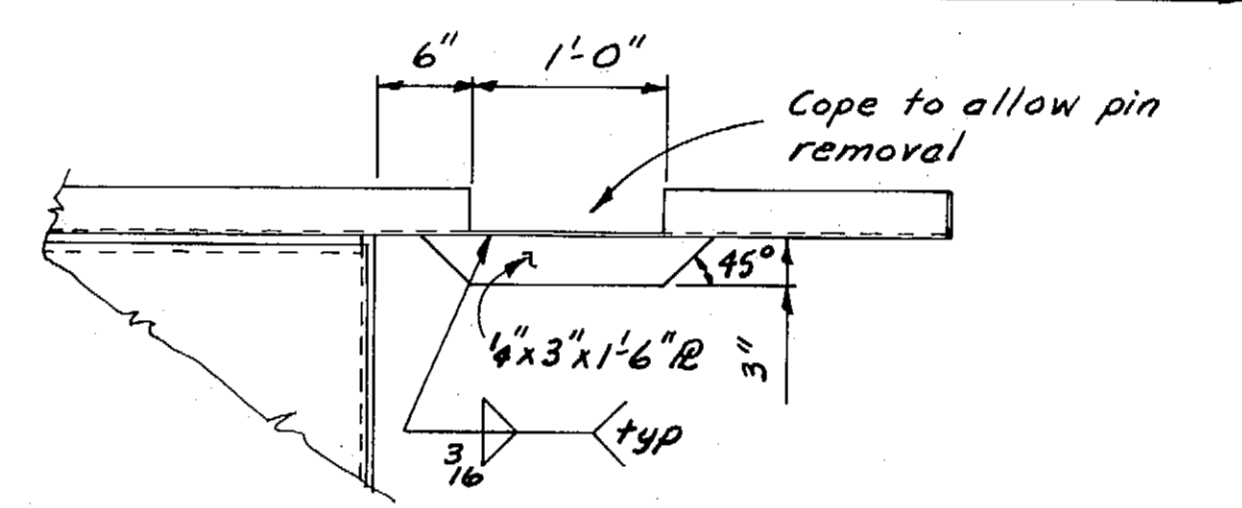
**SECTION B-B**



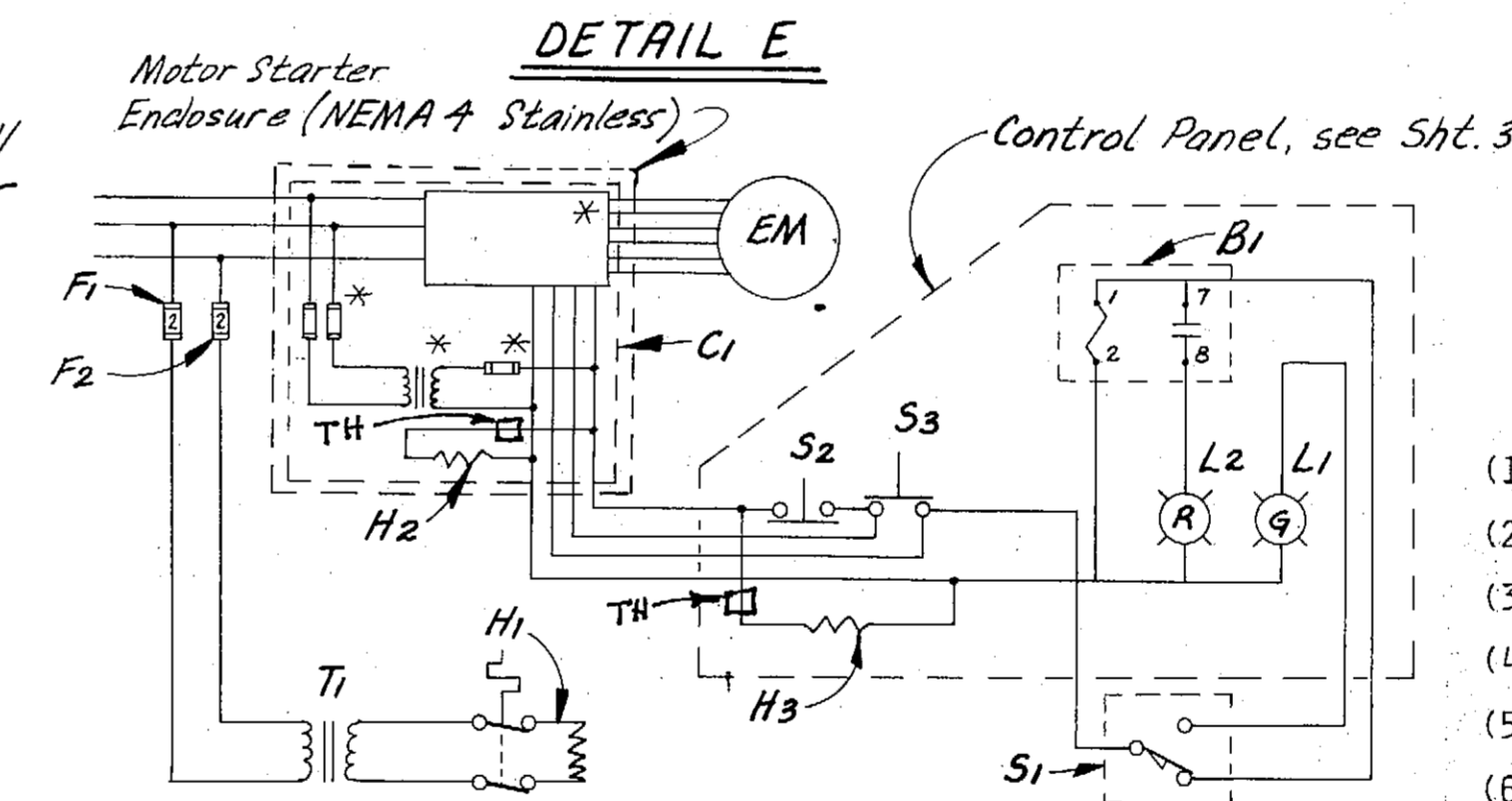
**SECTION C-C**



**SECTION D-D**

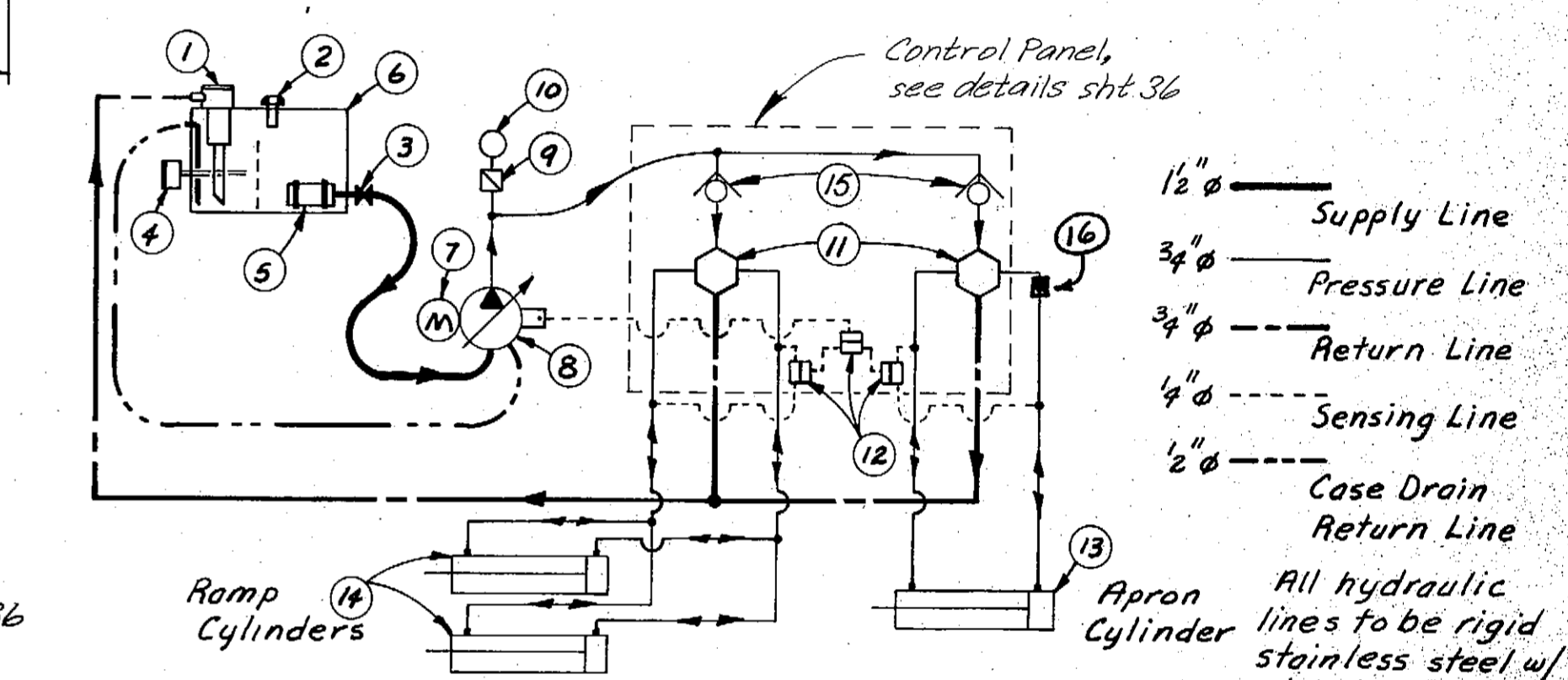


**DETAIL E**



**ELECTRICAL SCHEMATIC**

- \* Supplied with C1
- B1 Flasher Relay SSAC Type P5570 Dayton #A366
- C1 Starter, Y-D, Square D, Class 8630, Type SCW-12 w/ Form FT-11 Fused control circuit XFMR (480v. primary, 120v. secondary), closed transition, NEMA 4 S.S. enclosure.
- EM Electric Motor 15hp, 1800 rpm, 460 v., 3 ph, wye start-delta run., 60 Hz.
- F1 & F2 Fuses, #8mp, 600v.
- H1 Heater, 500 watt Chromalox No. ARTMO-500E2
- H2 & H3 Heaters, 25 watt, 120 v. = 37.5 @ 120 v.
- L1 & L2 Lights R= Red, G= Green
- S1 Limit Switch S.P.D.T.
- S2 Stop Switch S.P.S.T. normally closed, push button
- S3 Start Switch S.P.S.T. normally open, push button
- T1 Transformer 480v/120v, 750 VA
- TH Thermostats 120V Line Voltage



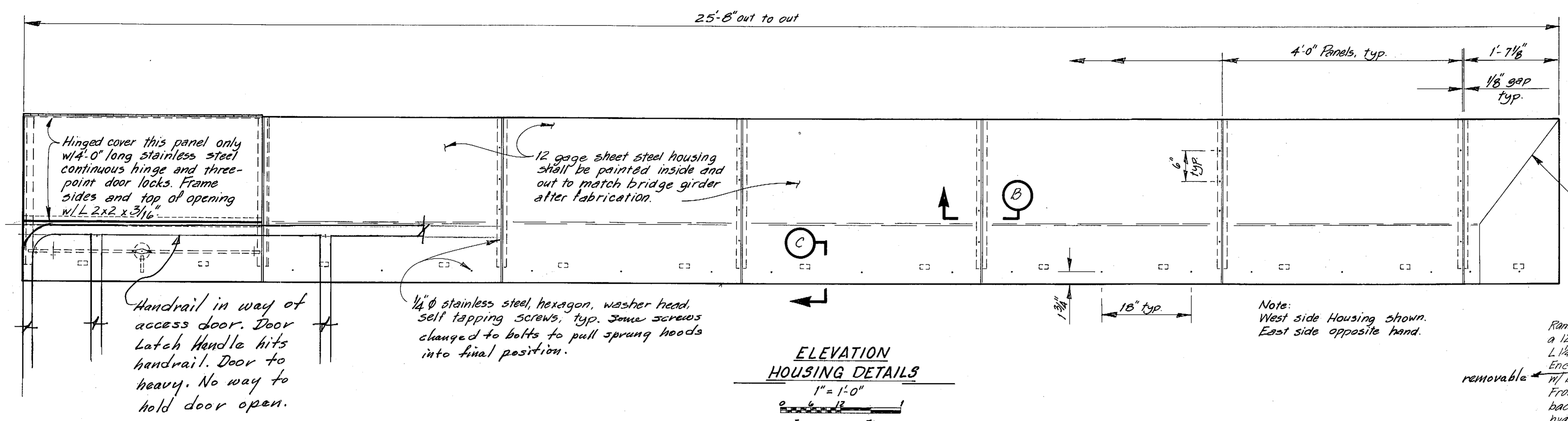
**HYDRAULIC SYSTEM SCHEMATIC**

- (1) CMPF 33-10 x 10 MICRON RETURN FILTER ELEMENT F33-10-N
- (2) CF1A-4080-C80 FILTER BREATHER
- (3) 2" GATE VALVE Ohio Brass Cat. No. 50578
- (4) ARTMO-500E2 500 WATT IMMERSION HEATER
- (5) P50-2-100 100 MESH STRAINER WITH MAGNETIC STRAPS
- (6) 36 GALLON SPECIAL RESERVOIR (stainless steel 12ga)
- (7) 15HP TEFC, 1800 RPM, 460 VAC, 3PH, 60HZ ELECTRIC MOTOR
- (8) PFC 273-LDB VARIABLE VOLUME, FLOW REGULATED, PRESSURE COMPENSATED, PISTON PUMP, 2.77 1300 PSI
- (9) KLN250B NEEDLE VALVE
- (10) CFIP-2105 PRESSURE GAGE, 0-3000 PSI
- (11) 81441HC3-MC 4-WAY, 3 POSITION, CLOSED CENTER, SPRING RETURN, DIRECTIONAL CONTROL VALVE
- (12) 45652 SHUTTLE VALVE Modular Controls DSV1-B-B-2
- (13) 8012 10 x 66 CYLINDER WITH 4-1/2 S.S. ROD, CUSHIONS AND LIMIT SWITCH, See Sheet 41
- (14) 8011 10 x 75 CYLINDER WITH 4-1/2 S.S. ROD, fully retracted the rod shall extend 6"
- (15) Pneu-Trol EDC35SS check valves
- (16) SUN counterbalance valve CBEA-LAN-BDW

**AS-BUILT**

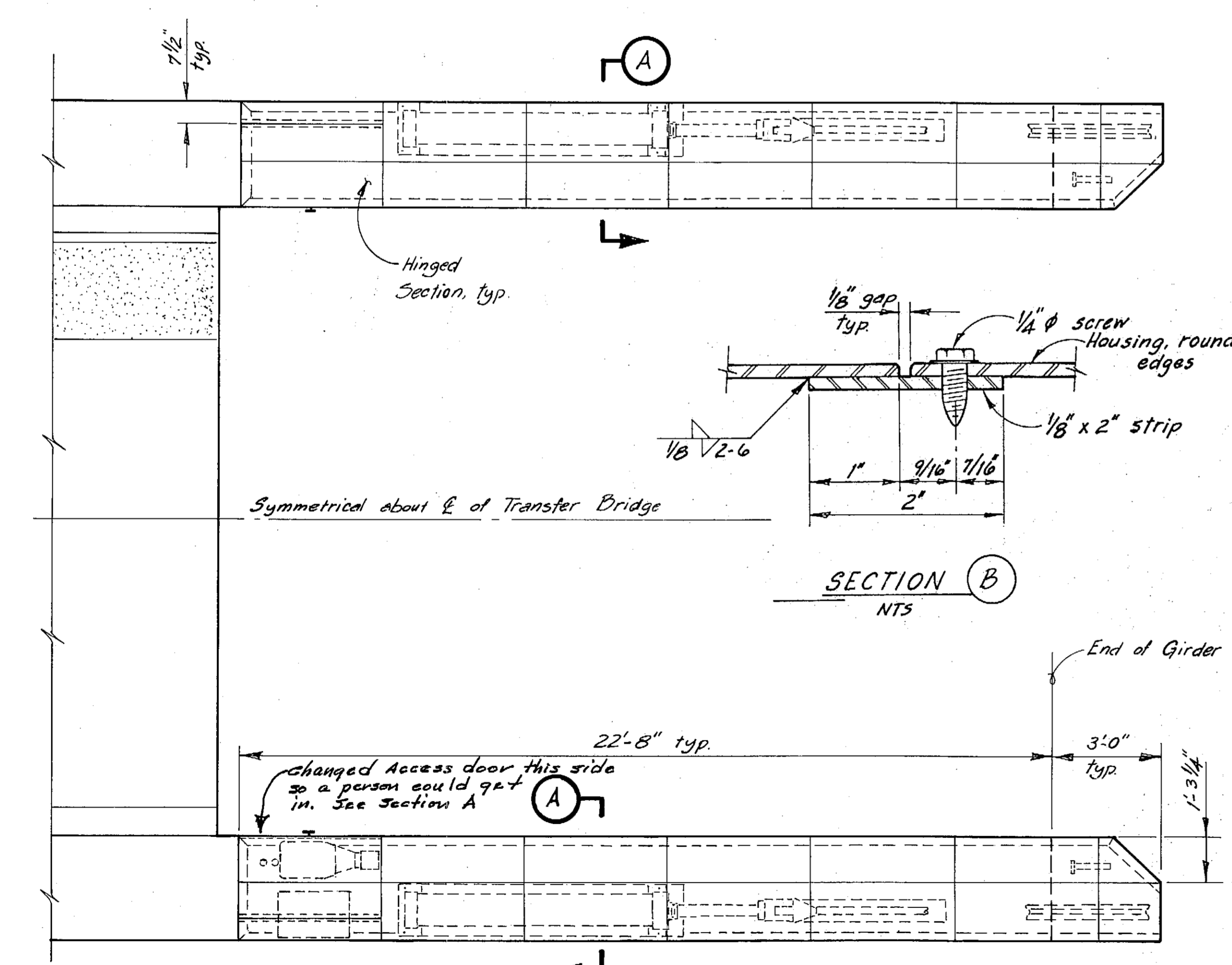
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
<b>MECHANICAL DETAILS</b>			
<b>BARGE END</b>			
SCALE: NONE	SURVEYED: _____	APPROVED: _____	
DESIGNED: LB	DRAWN: _____	DATE: 2-84	
CHECKED: LB	DATE: 2-84		
PROJECT NUMBER: A38502	SHEET 35 OF 61		

**NOTE:** Design and Dimensions based on components listed. Contractor shall adjust as necessary to accommodate models used and shall provide all drawings and details required. See Section 302-2.01.

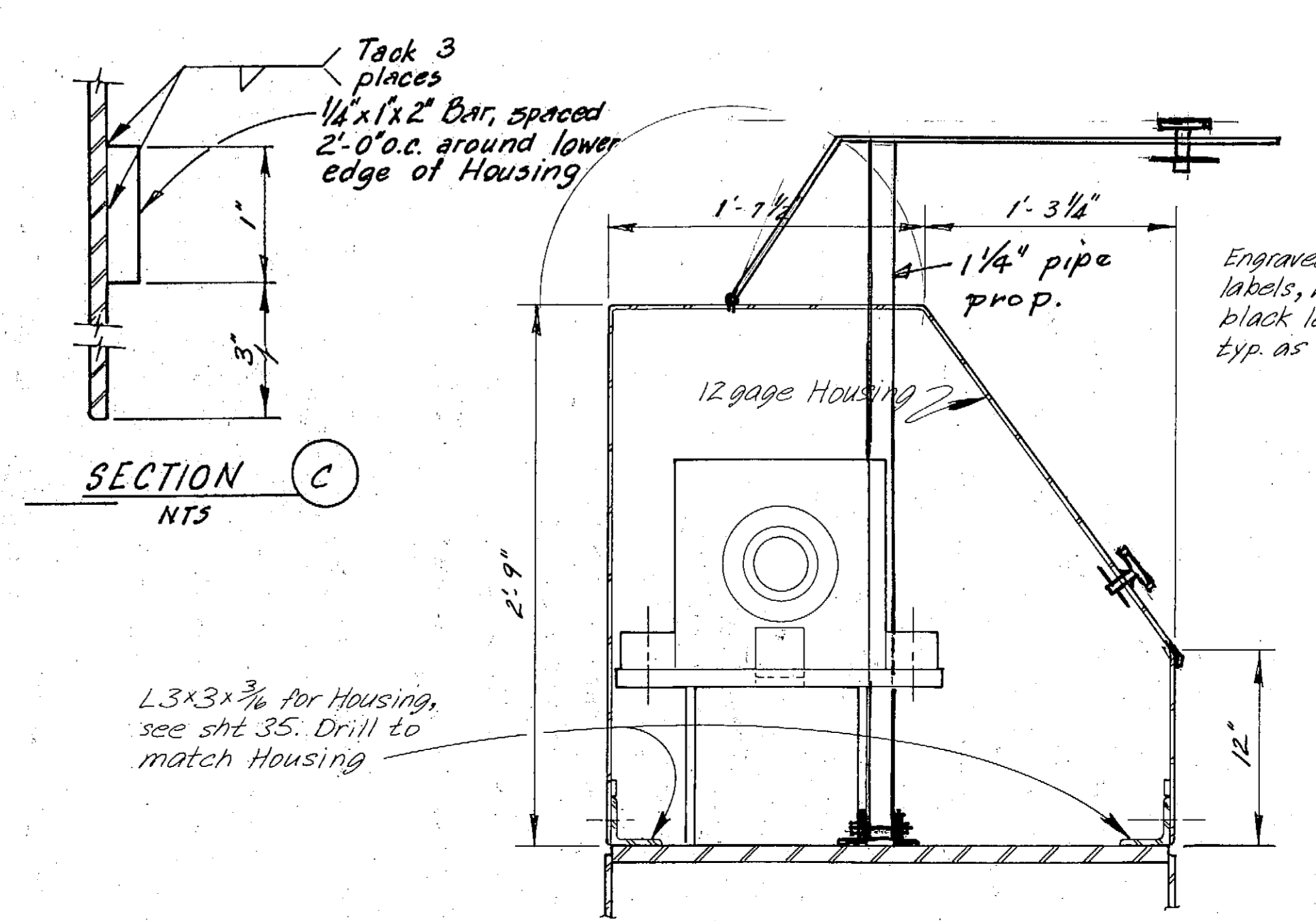


**ELEVATION HOUSING DETAILS**  
1" = 1'-0"  
In. Ft.

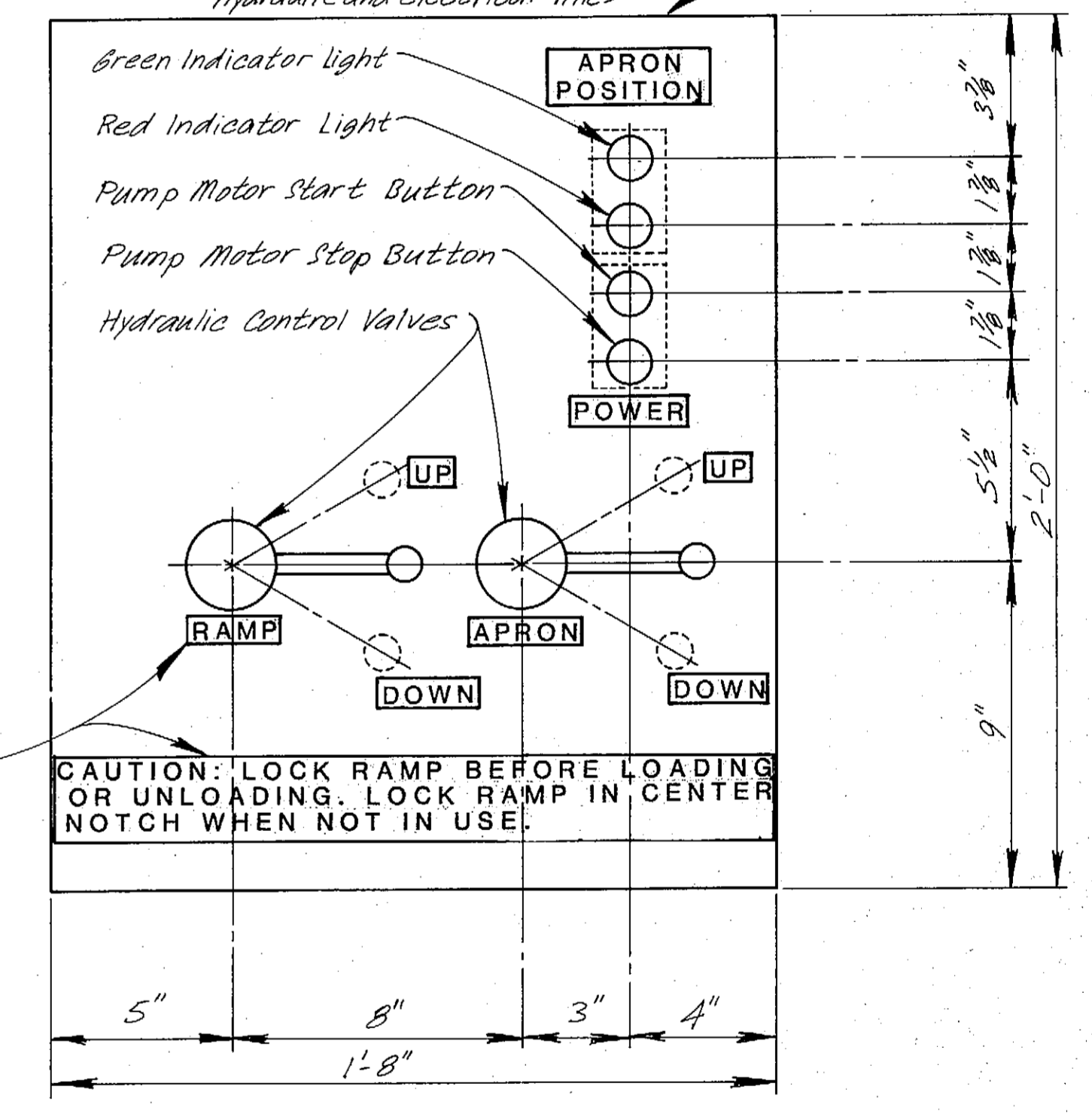
Ramp and Apron controls to be mounted in a 12 gage stainless steel enclosure w/ L 1/2 x 1/2 x 3/8 frame, 24" H x 20" W x 9" D. Enclosure shall have locking cover w/ bottom hinge and gasket, 24" H x 20" W x 3" D. Front panel shall be removable, sides back and top welded, bottom drill for hydraulic and electrical lines



**PLAN**  
3/8" = 1'-0"  
In. Ft.



**SECTION A**  
1 1/2" = 1'-0"  
In.



**CONTROL PANEL**  
N.T.S.

Pump: Reservoir East side only See Sheet 35

**AS-BUILT**

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

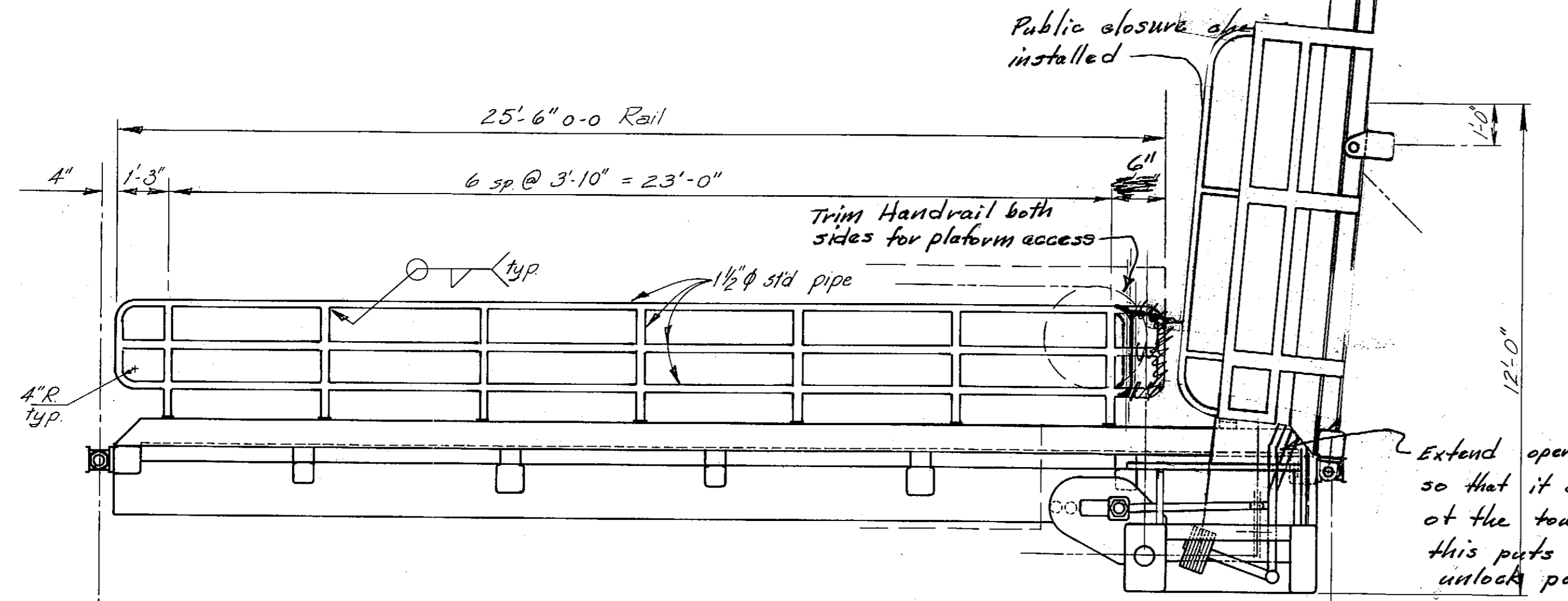
Petersburg Alaska

**BARGE END HOUSING**

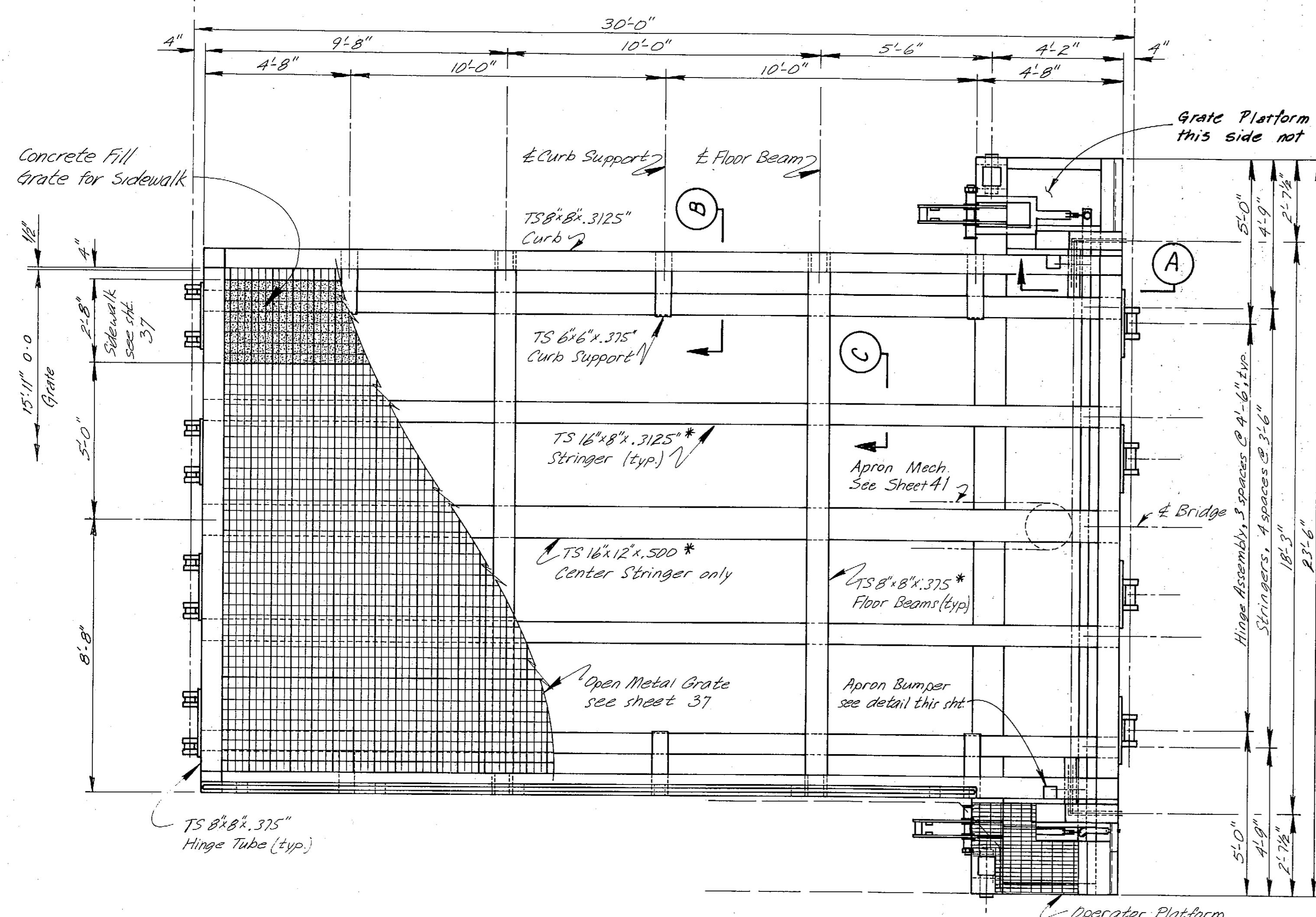
John T. Scott, II  
Professional Engineer  
2-25-85

SCALE: As Noted	SURVEYED:	APPROVED:
DESIGNED: JJP	DRAWN: DB	
CHECKED: JS	DATE: 2-84	
PROJECT NUMBER: A38502		SHEET 36 OF 62

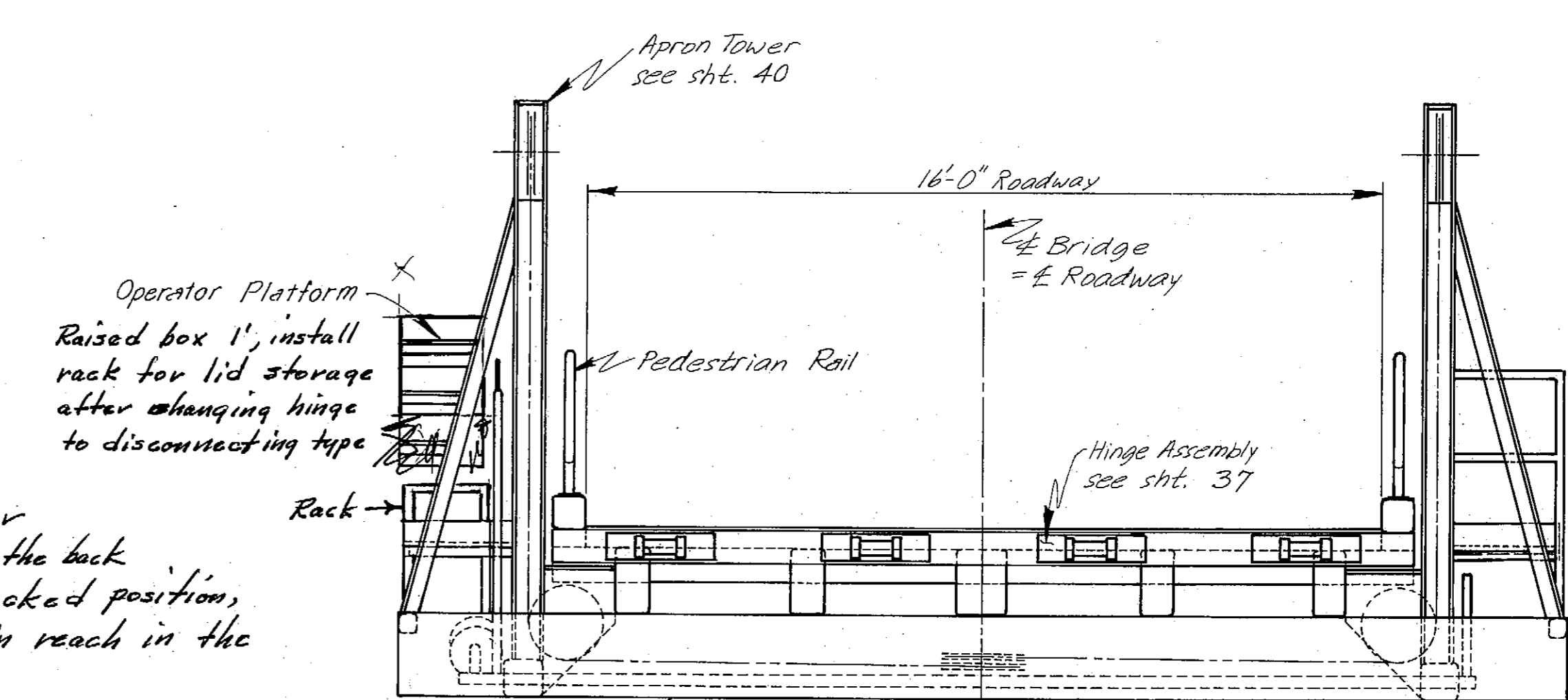




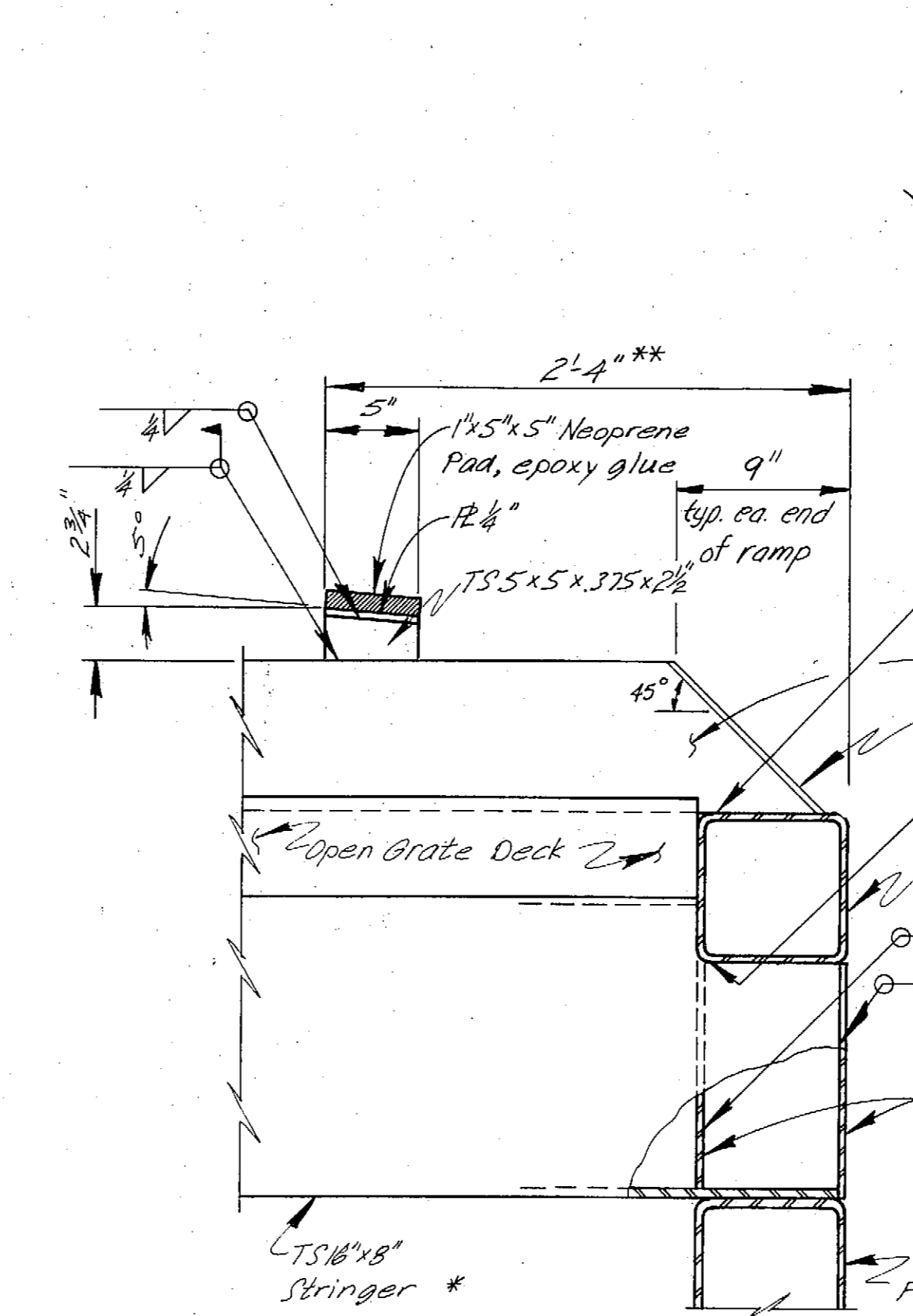
**ELEVATION**  
3/8" = 1'-0"



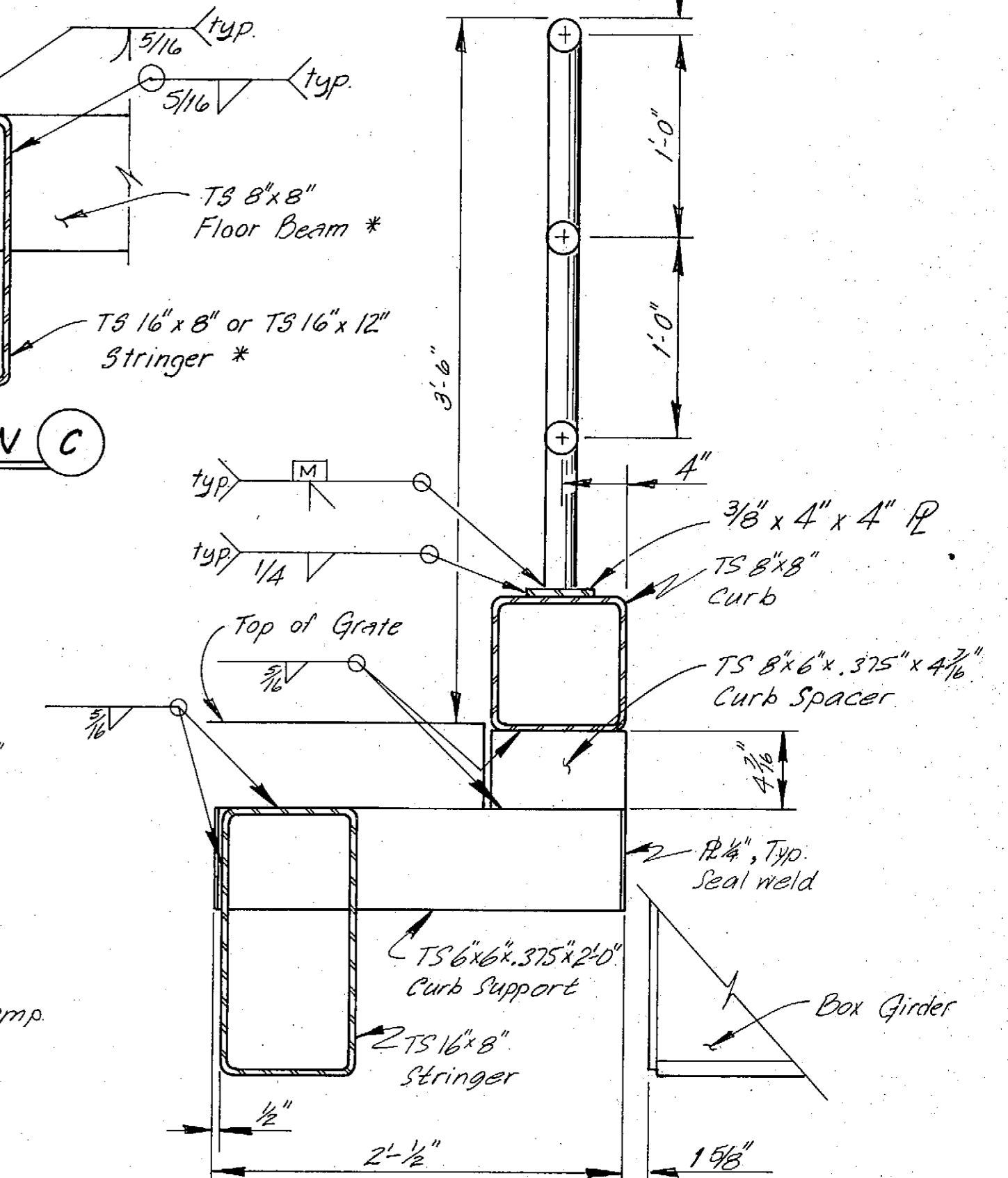
**PLAN**  
3/8" = 1'-0"  
1" = 1'-0"



**END ELEVATION**  
3/8" = 1'-0"

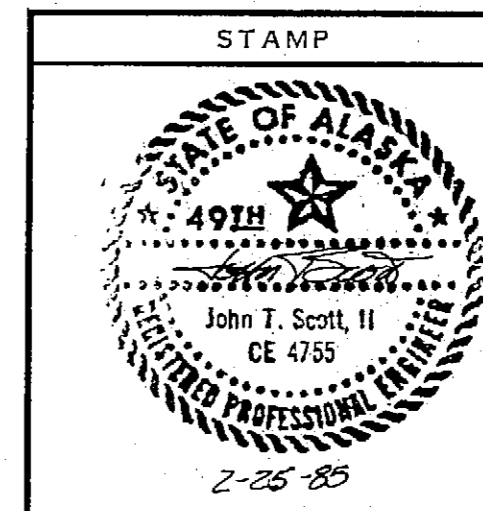


**SECTION C**  
1 1/2" = 1'-0"  
0 6 12  
Inches

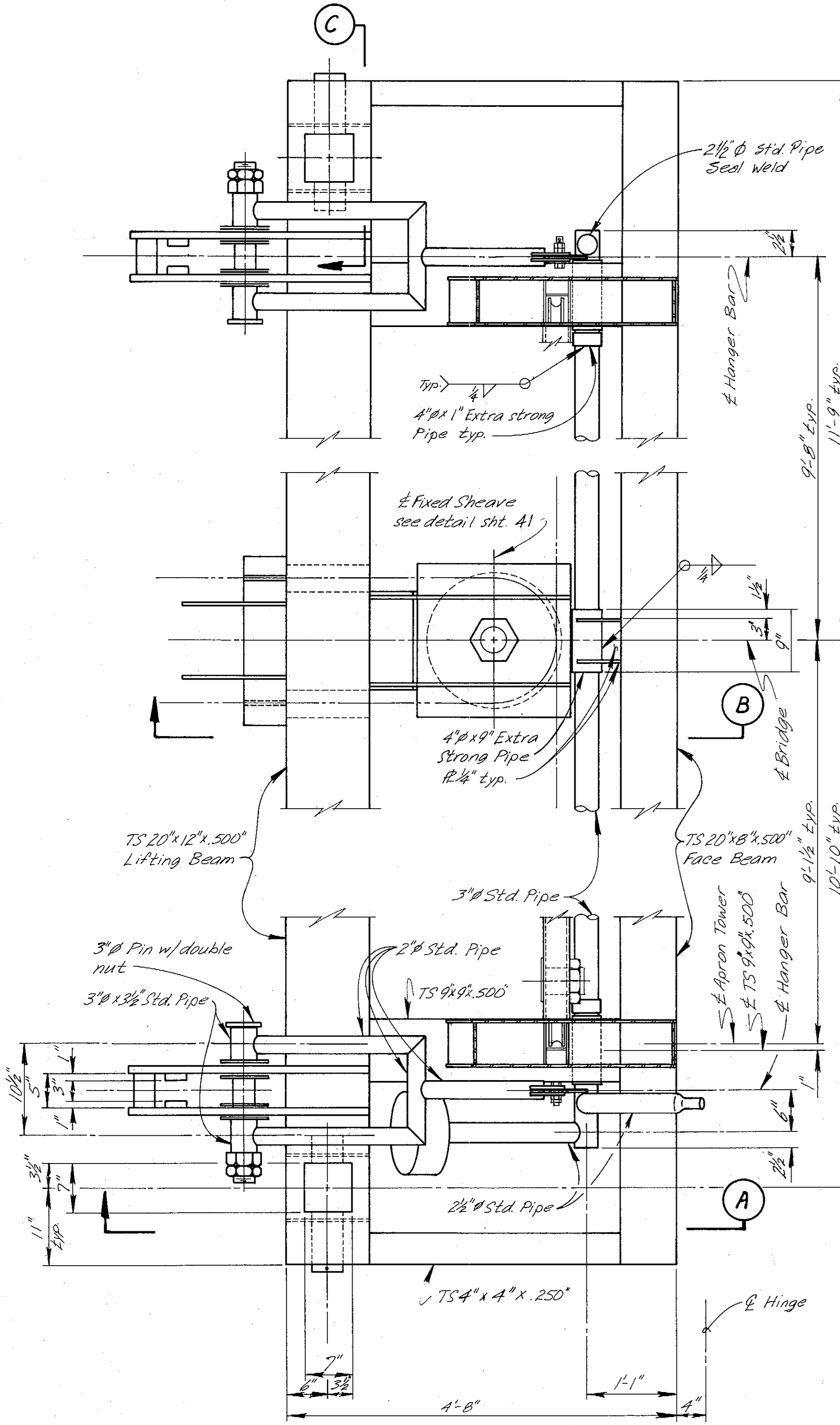


**SECTION B**  
1 1/2" = 1'-0"

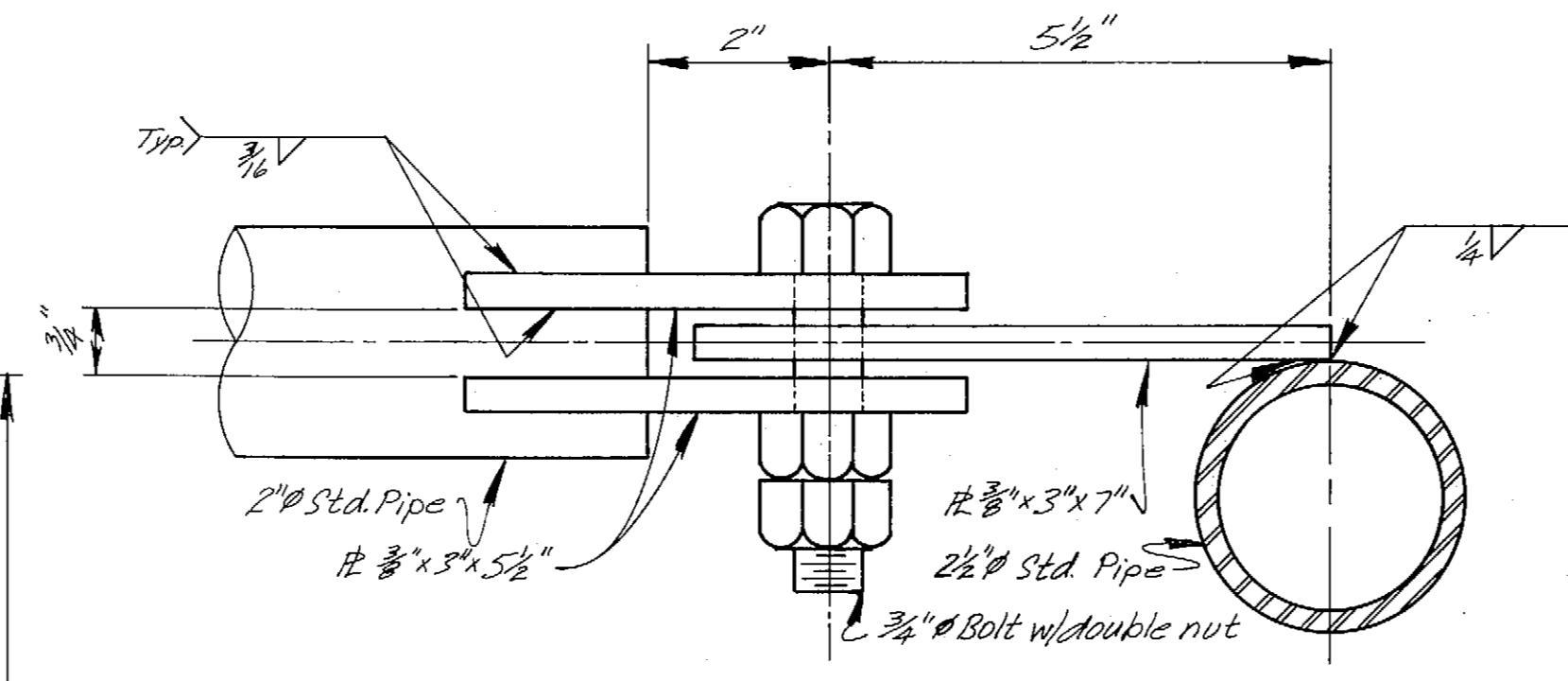
- Notes:  
 1. \* Main members subject to tensile stress.  
 2. Close all open ended pipe or tubing with 1/4" R and seal weld.  
 3. \*\* Field Locate



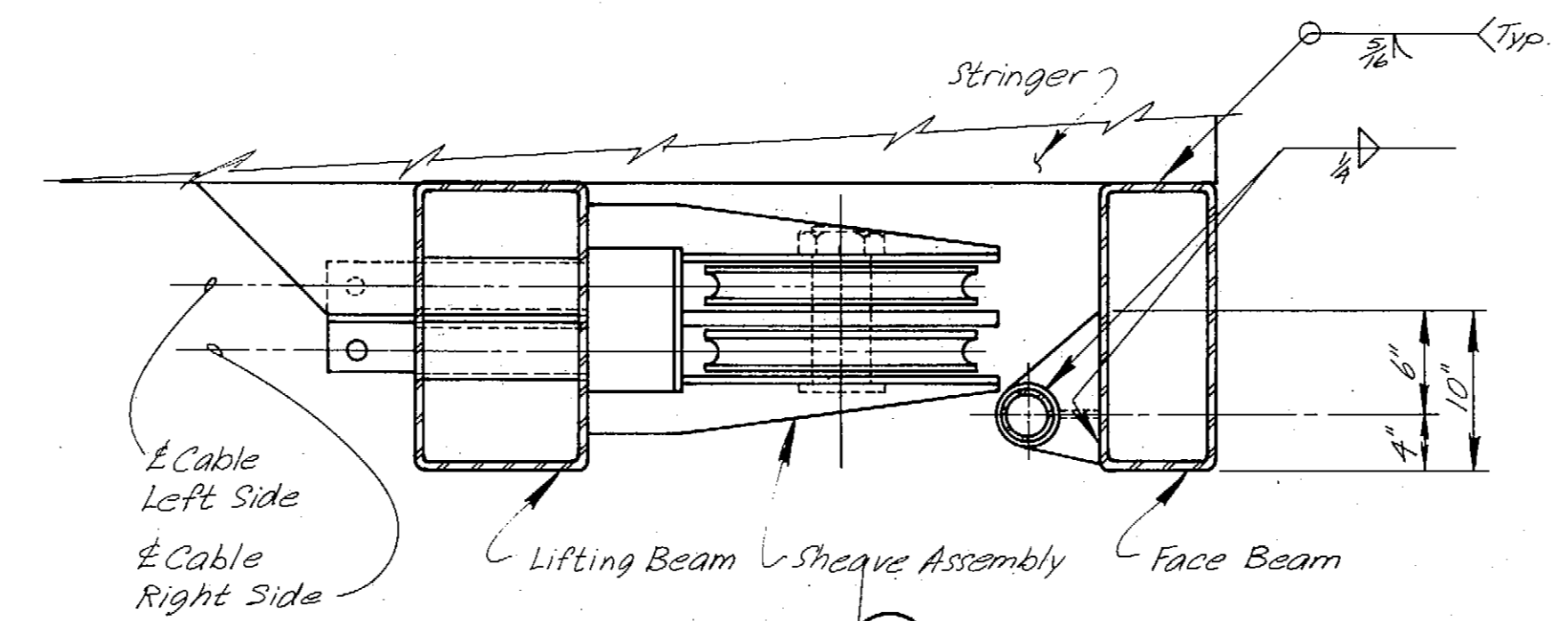
<b>AS-BUILT</b>		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Peterburg		Alaska
<b>INTERMEDIATE RAMP</b>		
SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: JJP	DRAWN: LJB	
CHECKED: JS	DATE: 2-84	
PROJECT NUMBER: A38502	SHEET 38 OF 62	



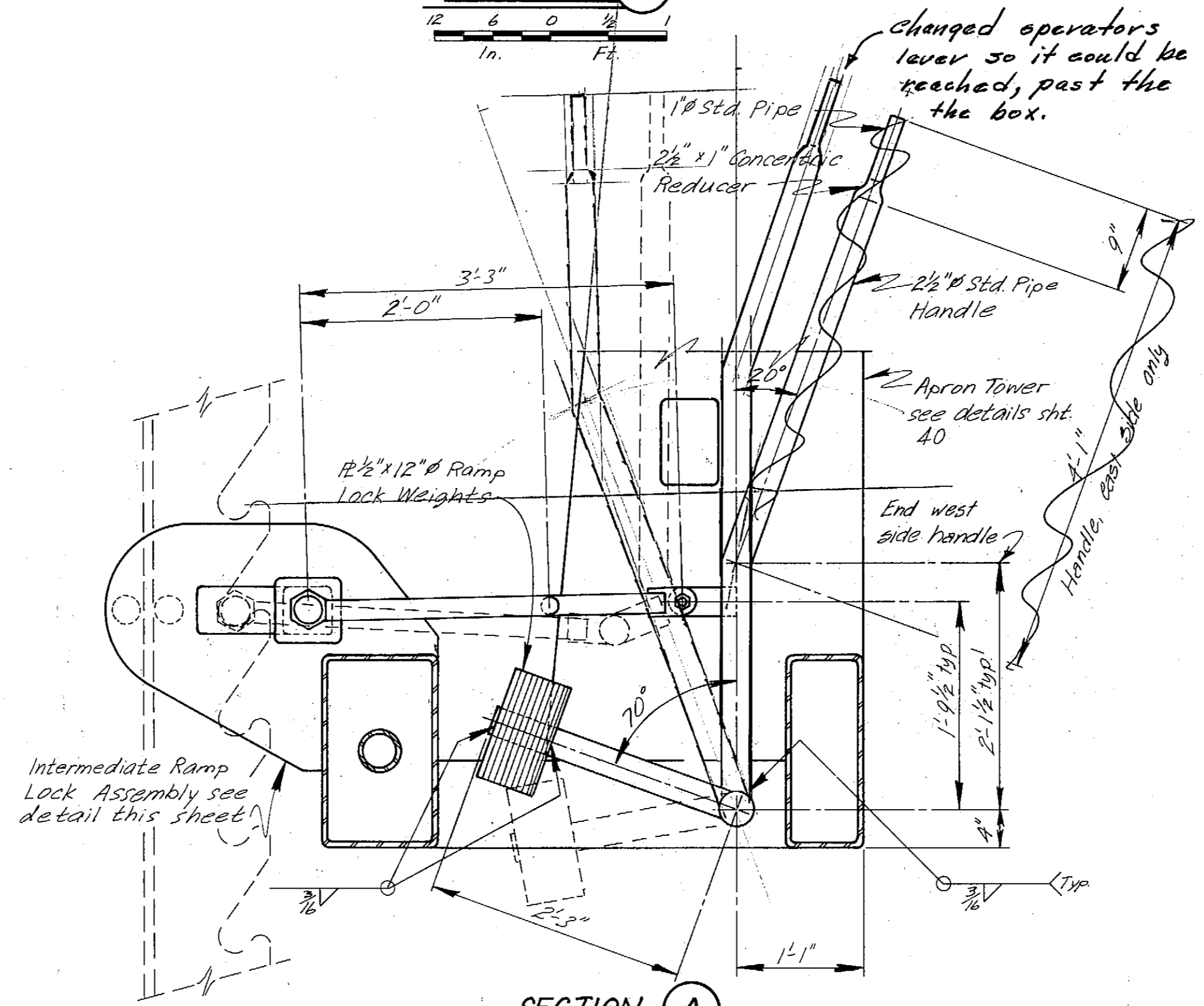
**LIFTING BEAM PLAN**  
 12 6 0 1/2  
 In. Ft.



**HANDLE DETAIL**  
 N.T.S.

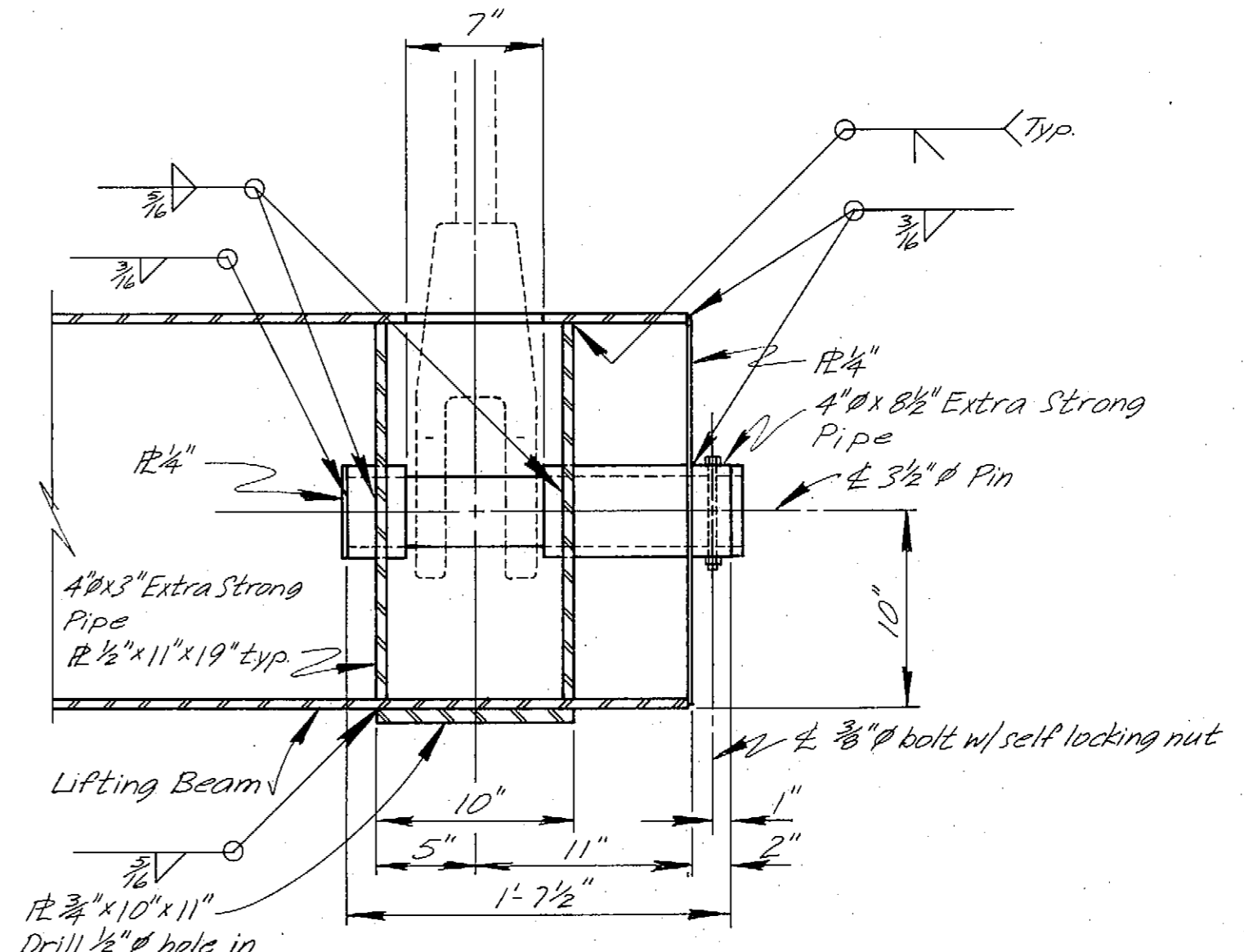


**SECTION B**  
 12 6 0 1/2  
 In. Ft.

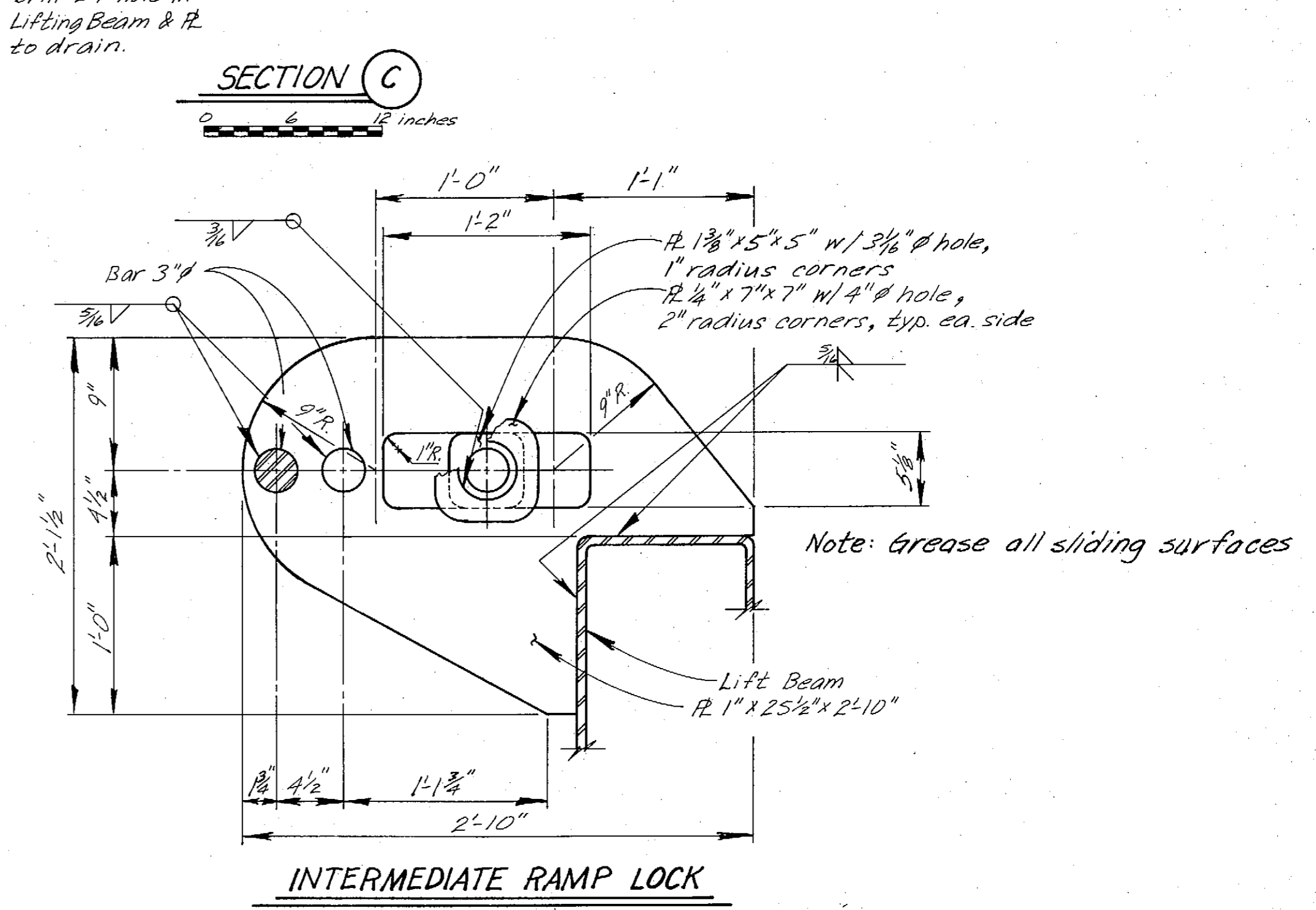


**SECTION A**  
 12 6 0 1/2  
 In. Ft.

Note:  
 1. Close all open ended pipe or tubing with 1/4" R and seal weld.  
 2. Adjust Lock Weights at assembly to cause pin to lock automatically. 12 1/2" x 12" weights, number as required for adjustment.

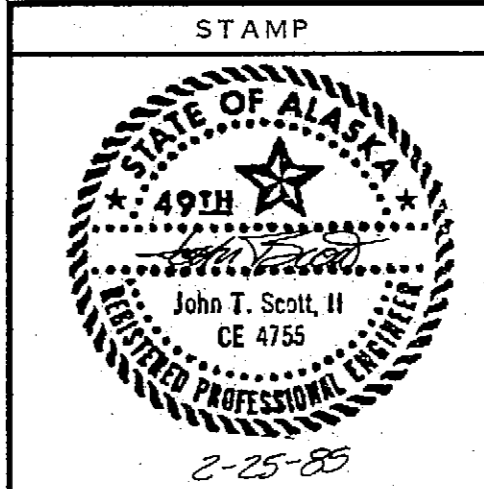


**SECTION C**  
 12 6 0 1/2  
 In. Ft.

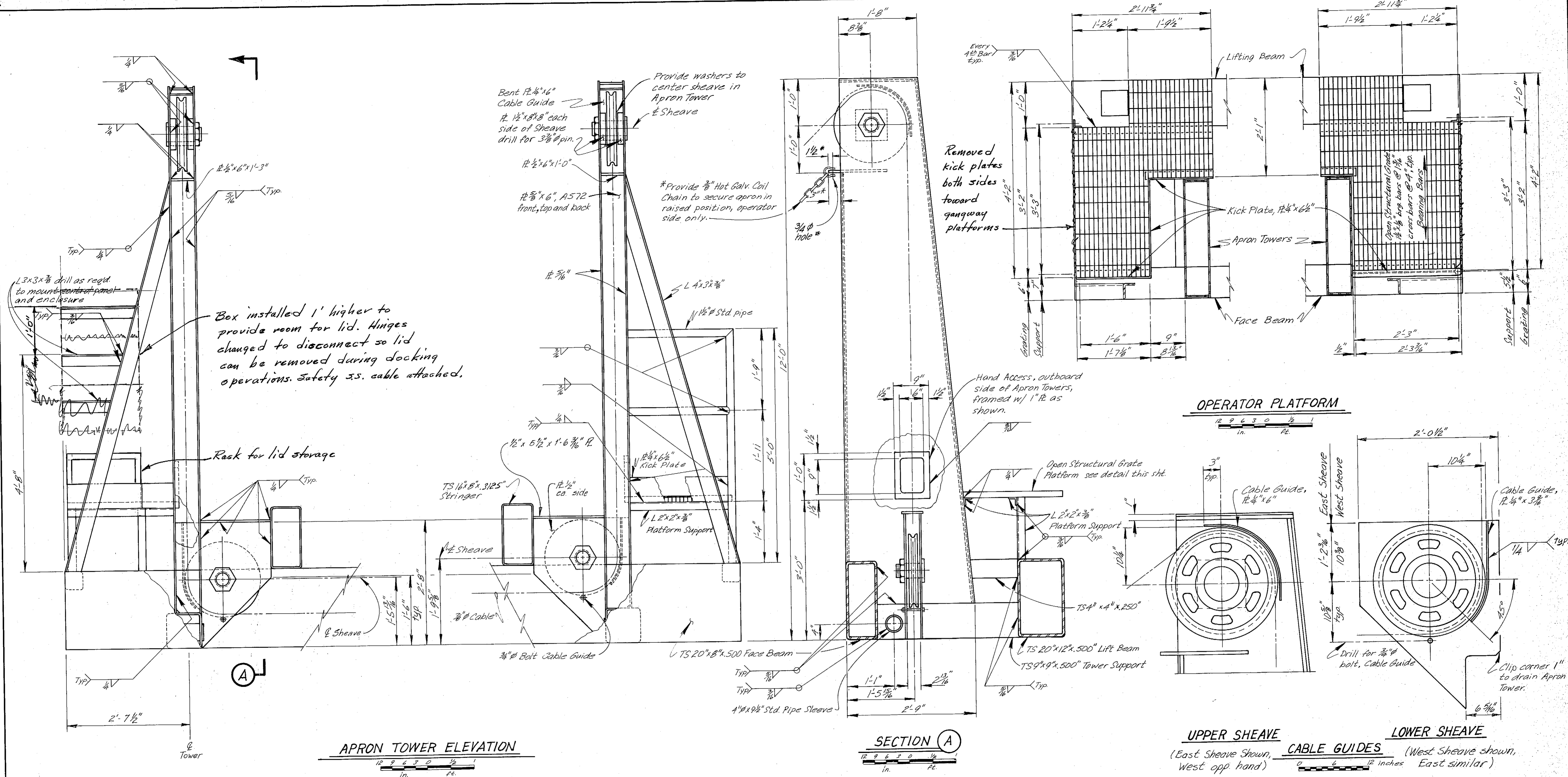


**INTERMEDIATE RAMP LOCK**  
 12 6 0 1/2  
 In. Ft.

Note: Grease all sliding surfaces



<b>AS-BUILT</b>		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
<b>LIFTING BEAM DETAILS</b>		
SCALE <i>As Noted</i>	SURVEYED _____	APPROVED _____
DESIGNED <i>H.P.</i>	DRAWN <i>LJB</i>	
CHECKED <i>JS</i>	DATE <i>2-84</i>	
PROJECT NUMBER <b>A38502</b>	SHEET <b>39</b> OF <b>62</b>	

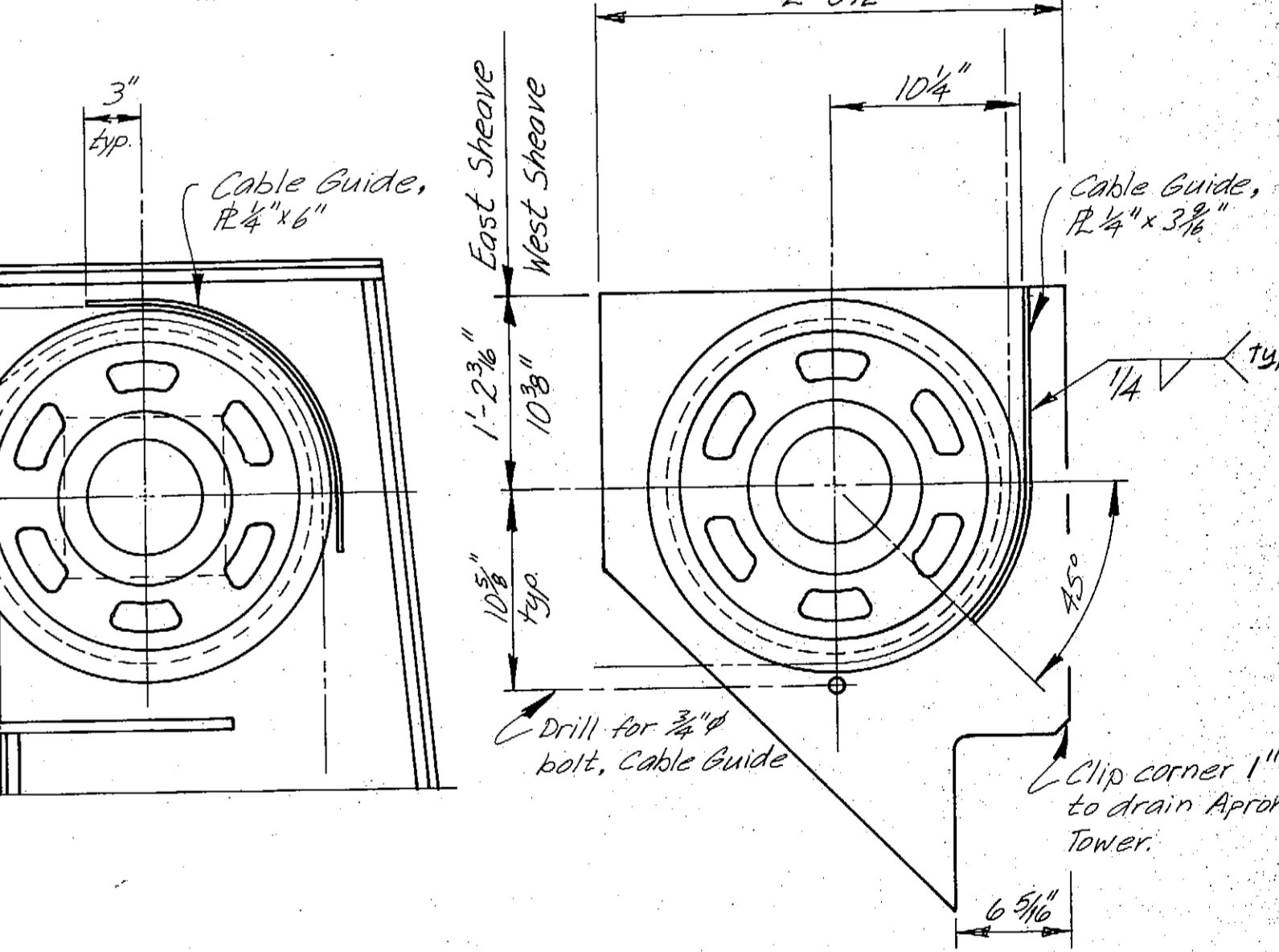
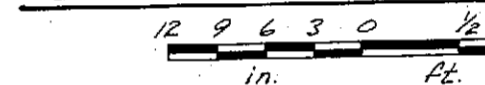


Box installed 1' higher to provide room for lid. Hinges changed to disconnect so lid can be removed during docking operations. Safety ss. cable attached.

Removed kick plates both sides toward gangway platforms

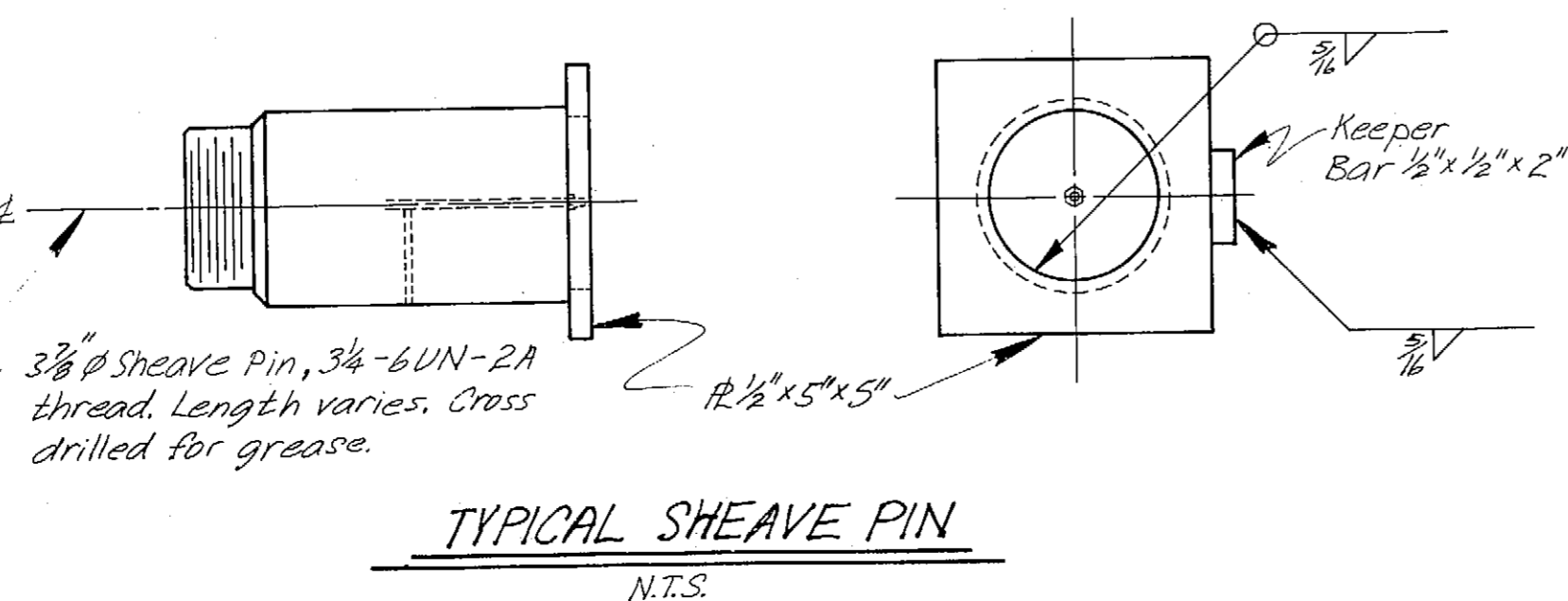
Hand Access, outboard side of Apron Towers, framed w/ 1" R. as shown.

**OPERATOR PLATFORM**



**UPPER SHEAVE**  
 (East Sheave Shown, West opp. hand)

**LOWER SHEAVE**  
 (West Sheave shown, East similar)



**AS-BUILT**  
 DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

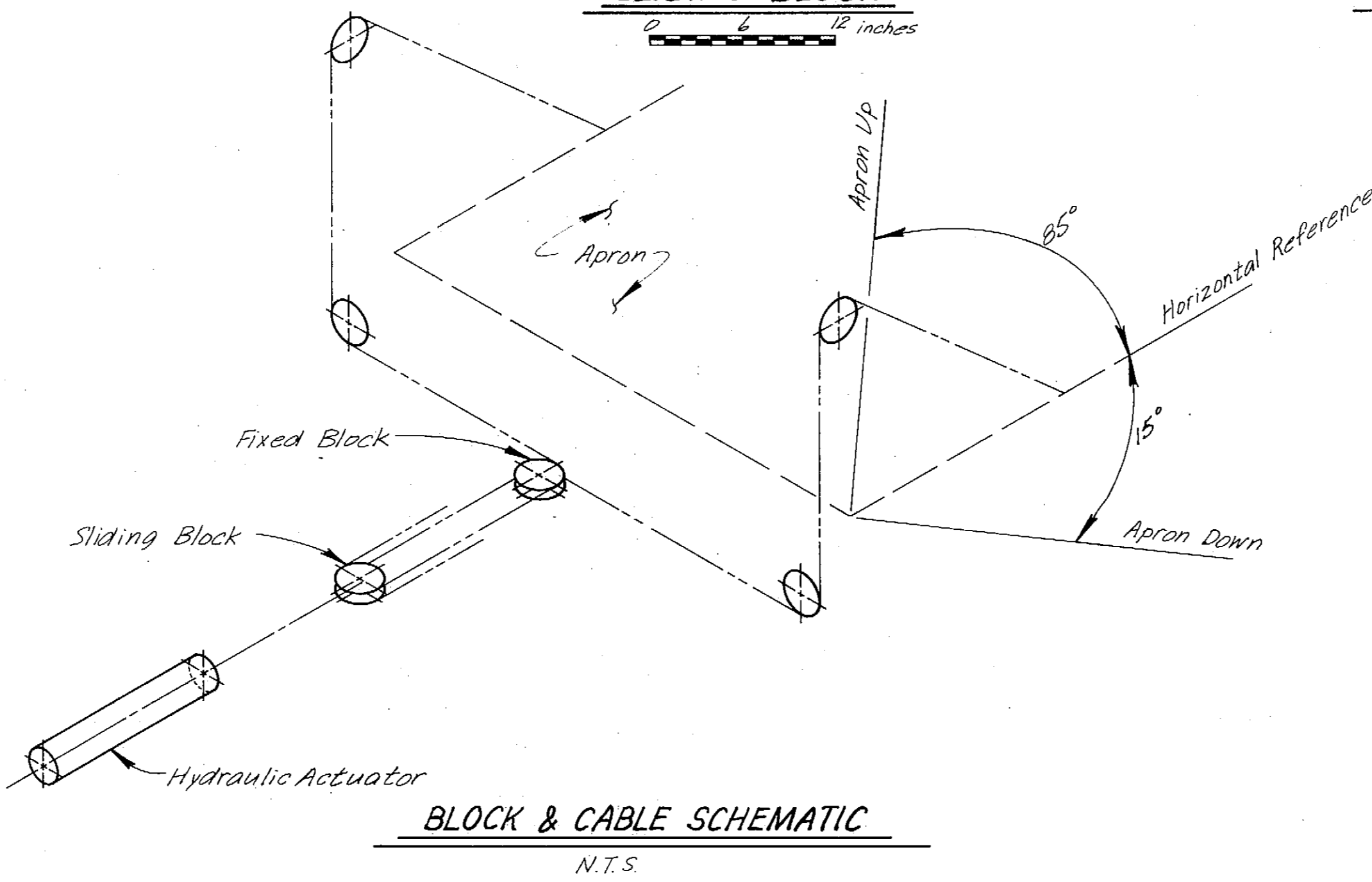
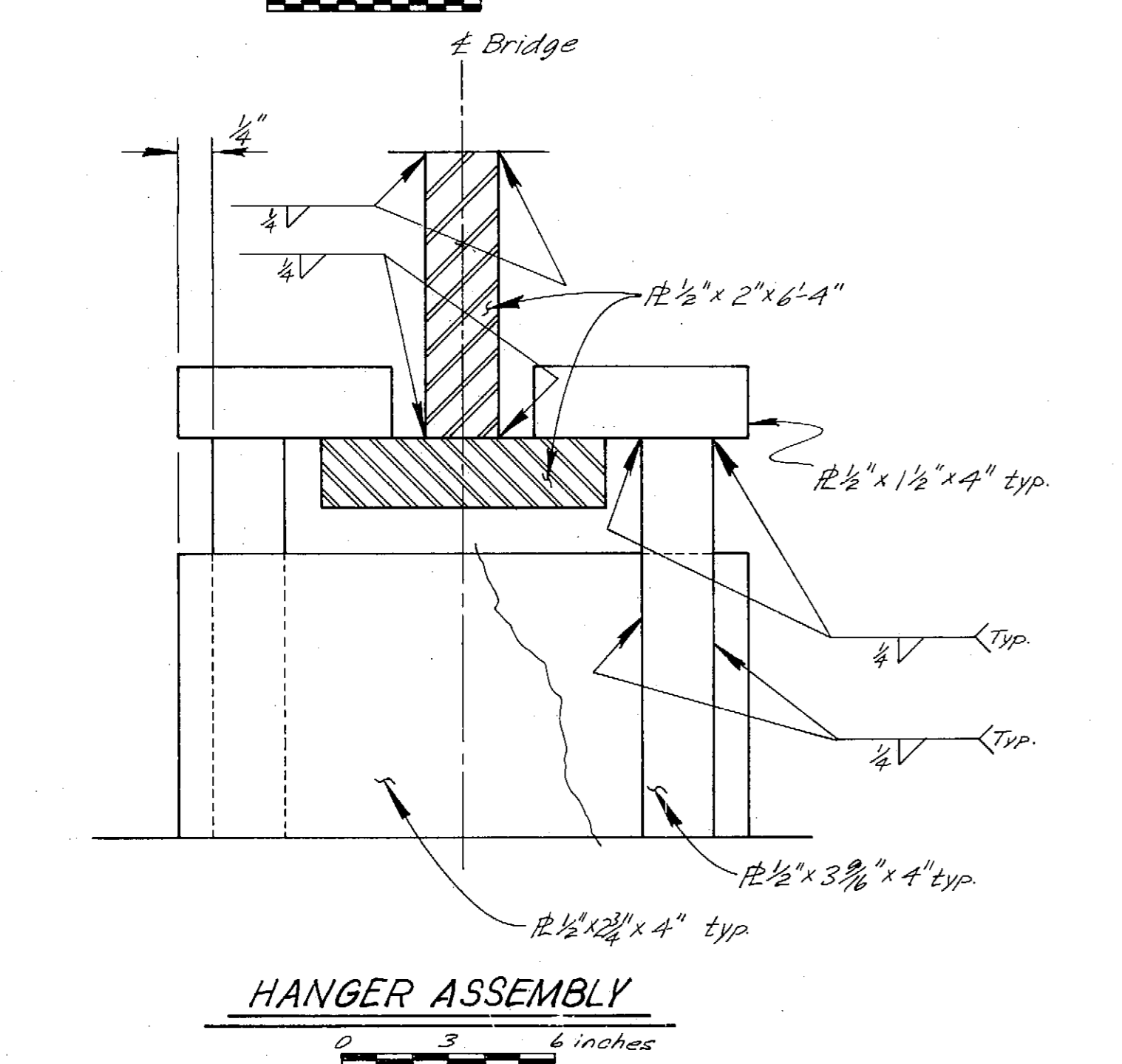
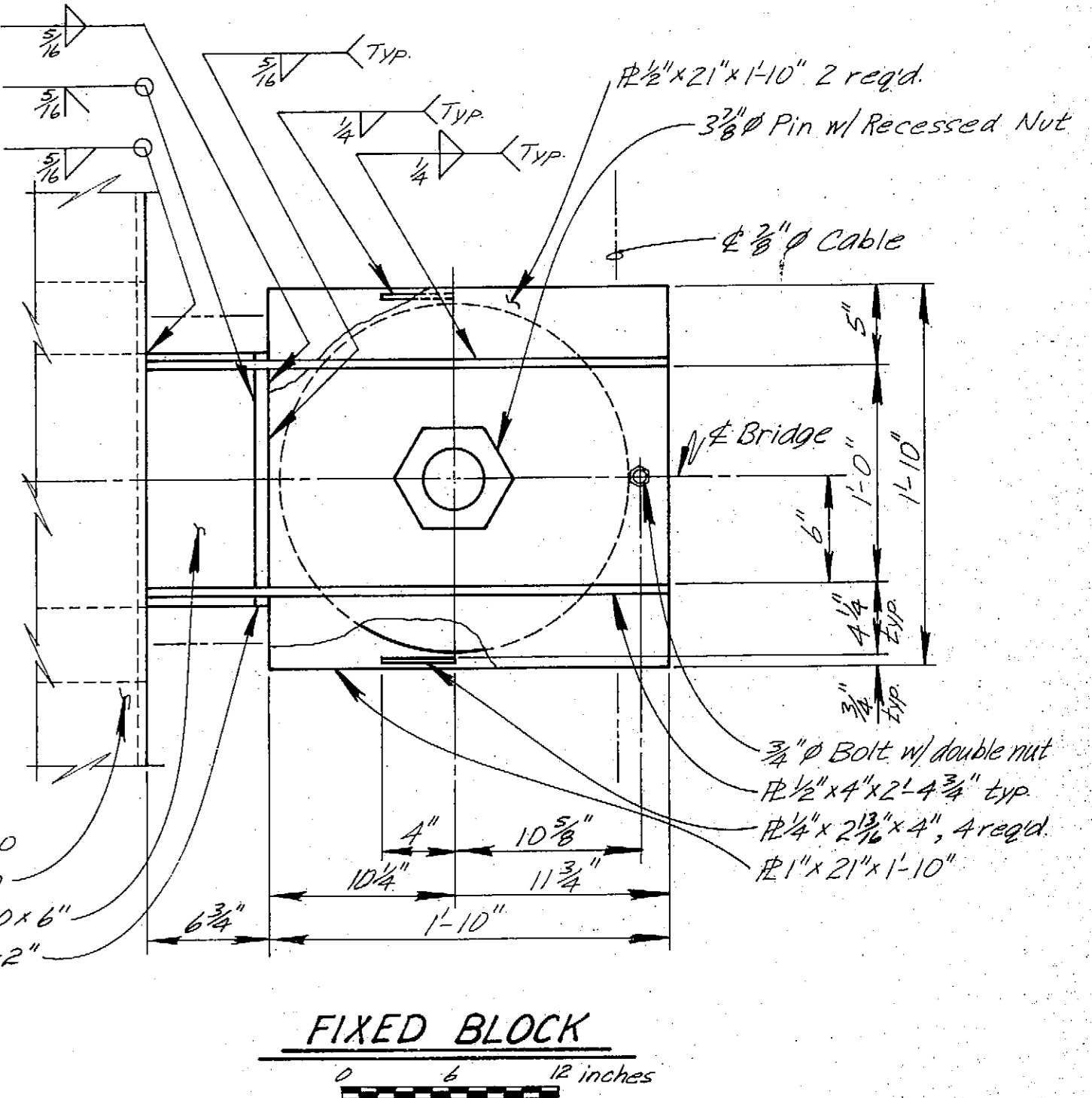
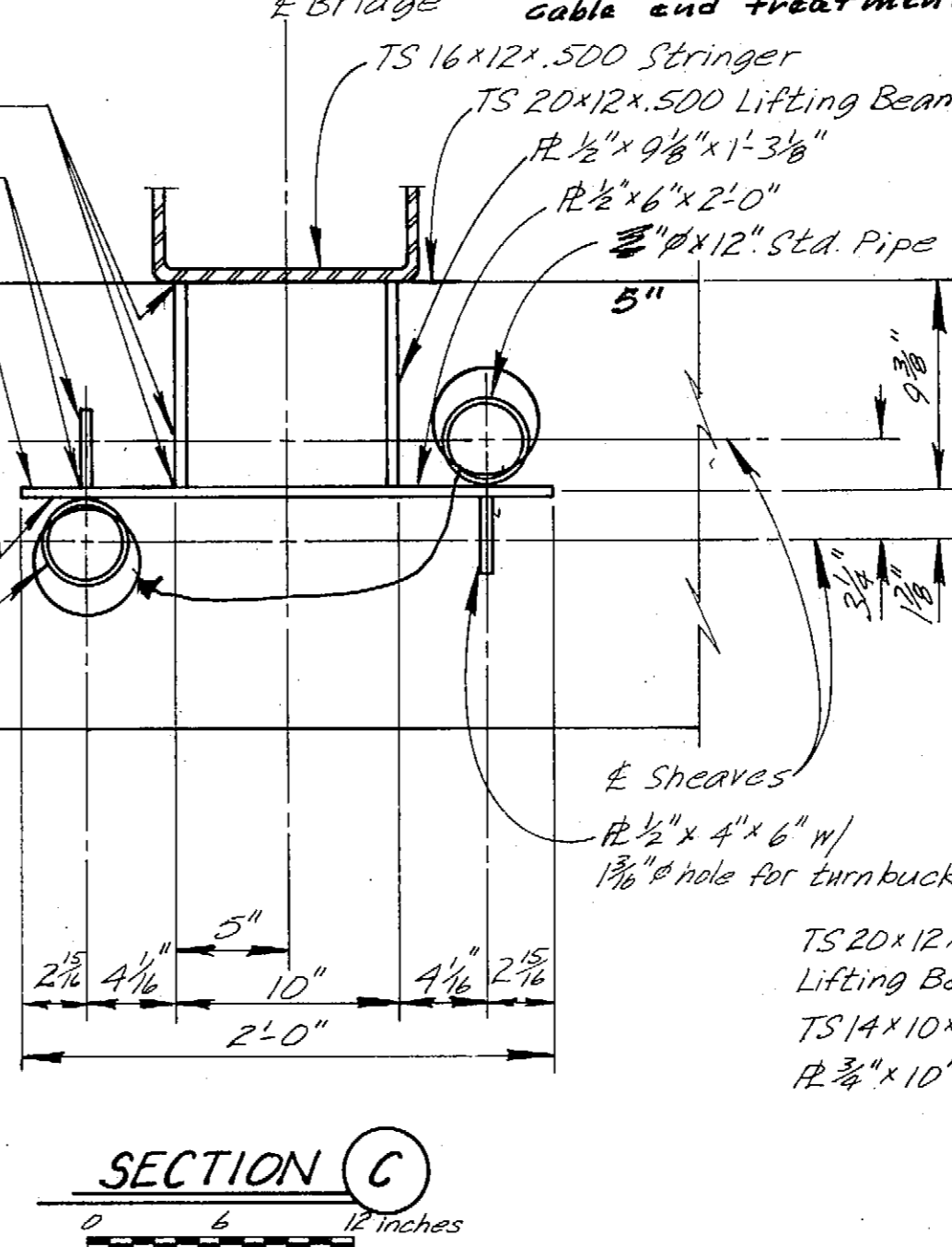
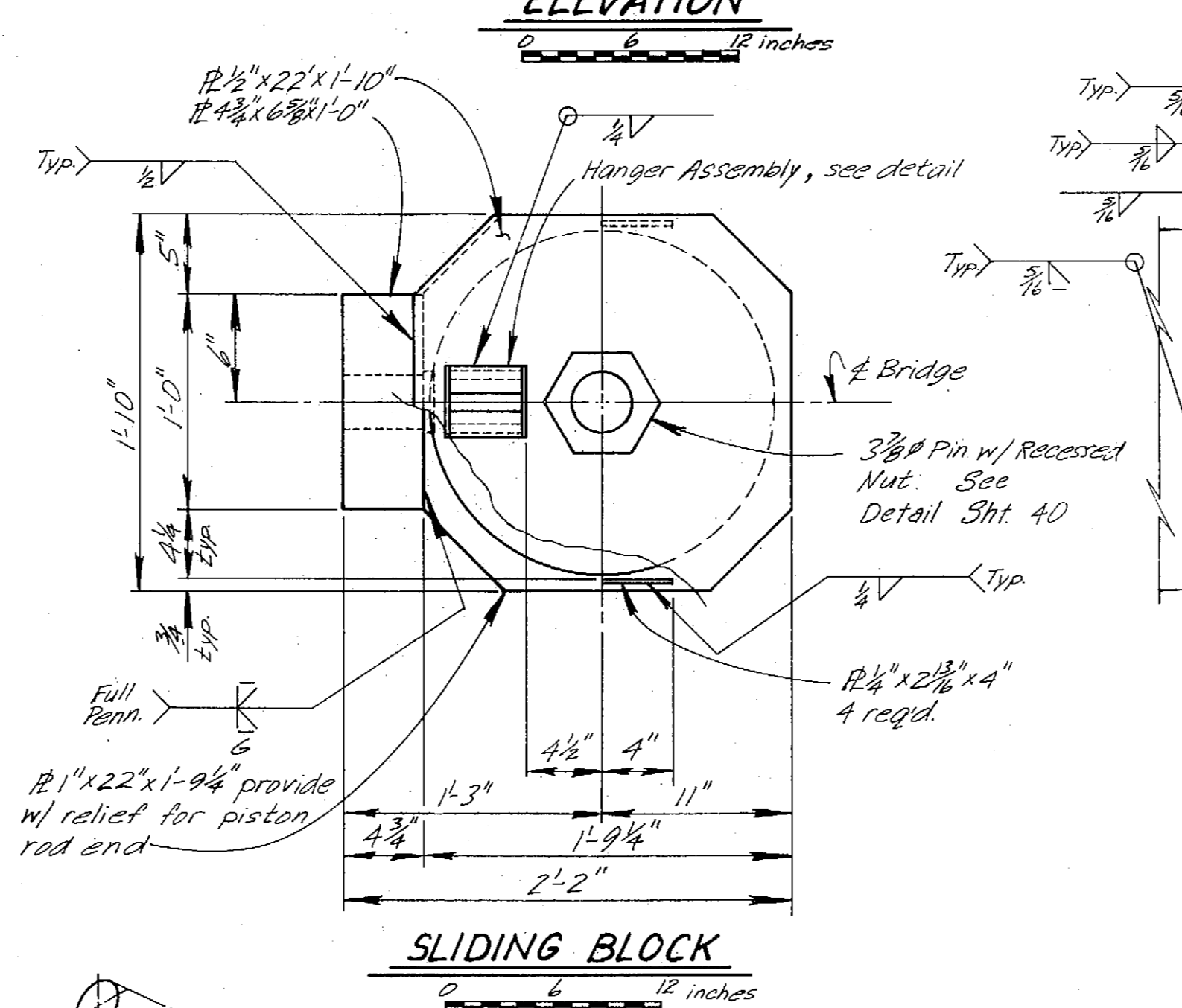
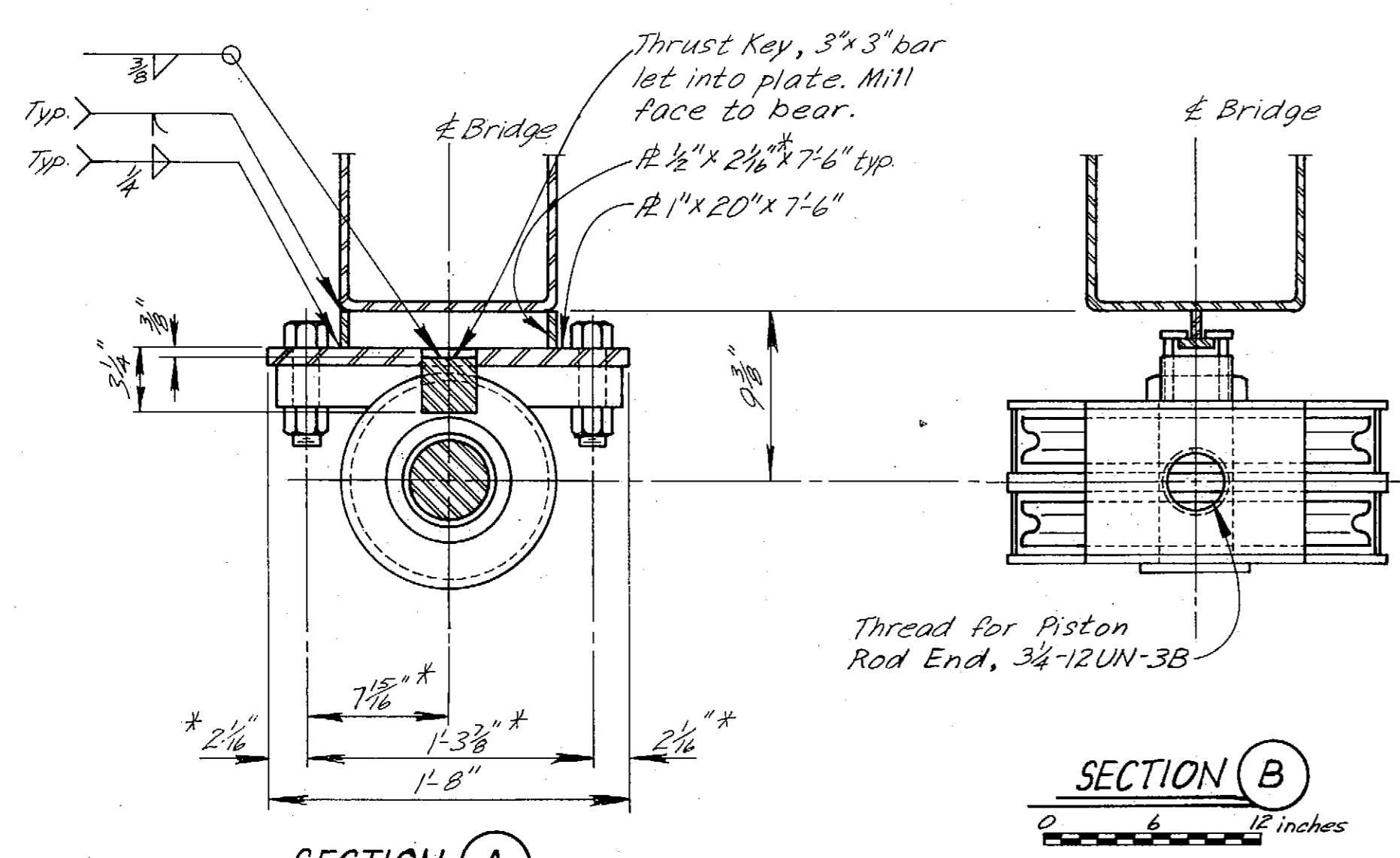
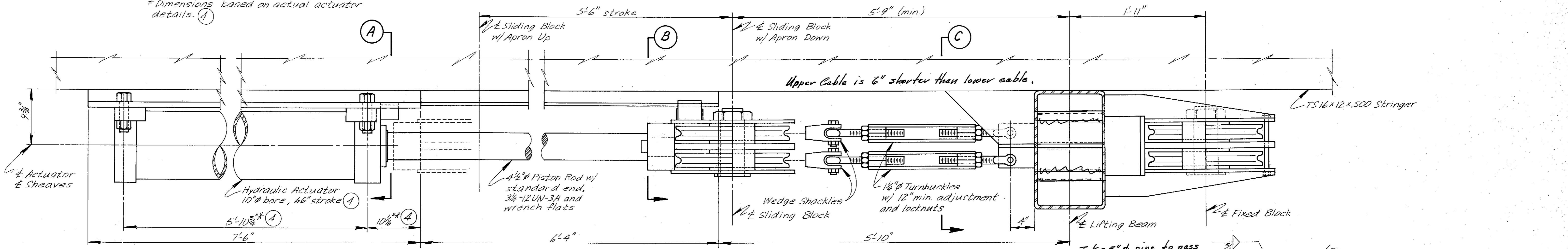
Petersburg Alaska

**APRON TOWER DETAILS**

STAMP  
 STATE OF ALASKA  
 49TH  
 John T. Scott, II  
 CE 4755  
 REGISTERED PROFESSIONAL ENGINEER  
 2-25-85

SCALE As Noted	SURVEYED	APPROVED
DESIGNED	DRAWN LJB	
CHECKED JS	DATE 12/81	
PROJECT NUMBER A38502	SHEET 40 OF 62	

\*Dimensions based on actual actuator details. (A)



Notes:  
 1. All sheaves this sheet 20" O.D., 17 1/4" Tread, 2 3/4" Hub thk., 3 3/8" Shaft.  
 2. Cable shall be 7/8" phi ~ 6x30 Flattened strand, lang lay, fibre core. (Breaking strength 35.4 tons)  
 3. Provide 3 3/8" sheave pins cross drilled for grease.  
 4. See Sheet 35

**AS-BUILT**

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

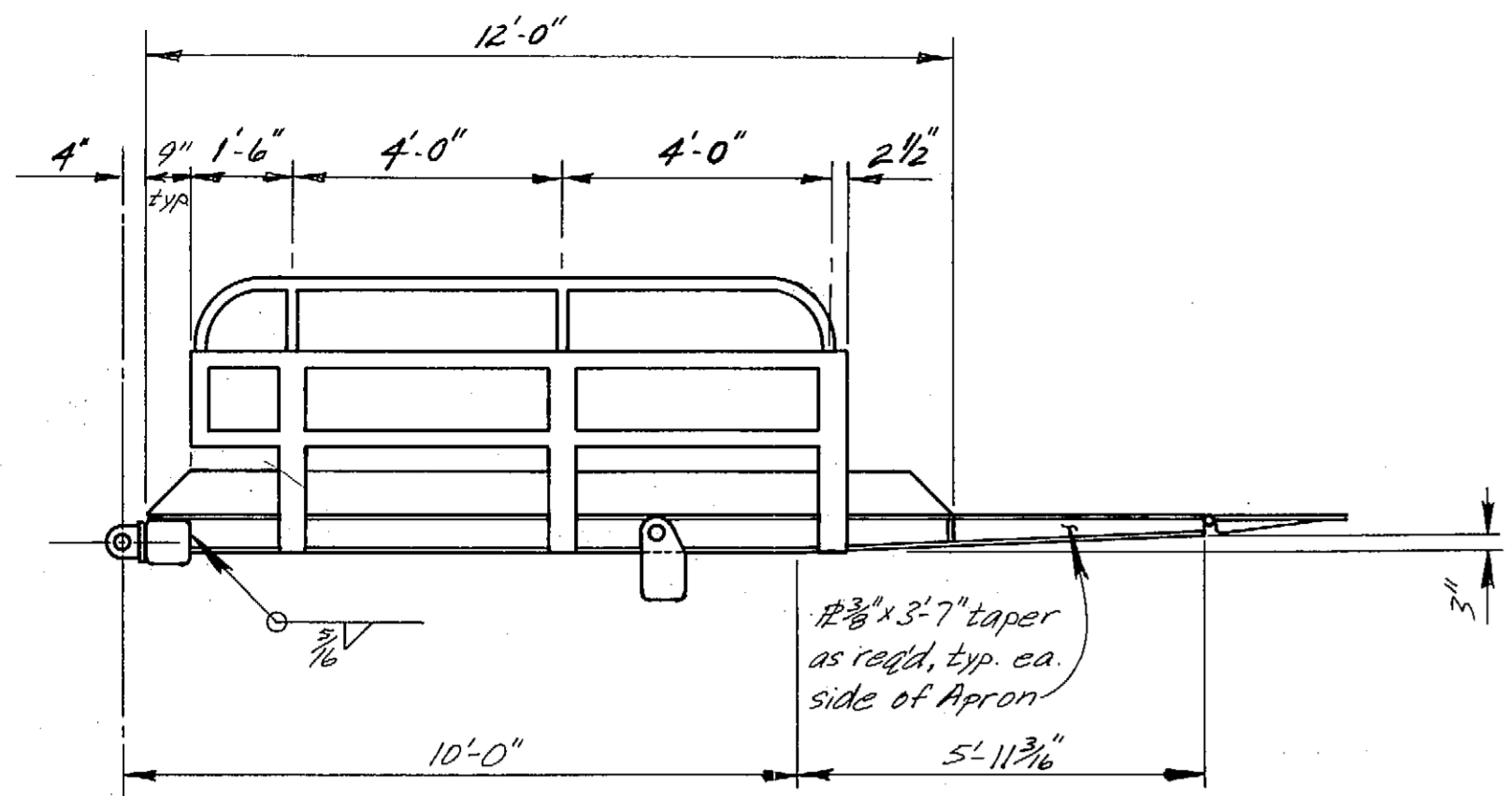
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

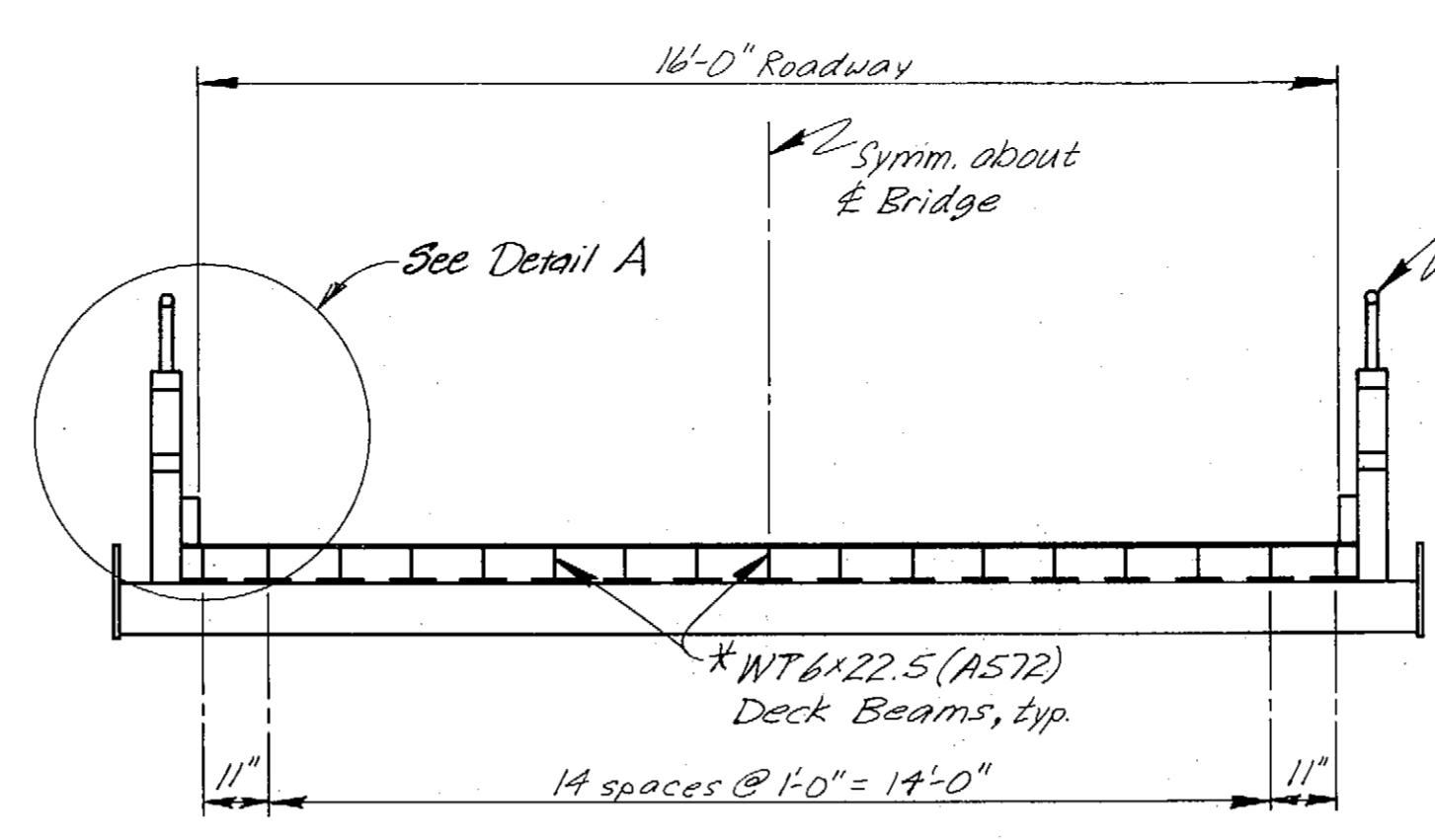
**APRON MECHANICAL DETAILS**

SCALE <i>As Noted</i>	SURVEYED	APPROVED	
DESIGNED <i>JJP</i>	DRAWN <i>LJP</i>		
CHECKED <i>JJP</i>	DATE <i>12/83</i>		
PROJECT NUMBER <i>A3B502</i>	SHEET <i>41</i> OF <i>62</i>		

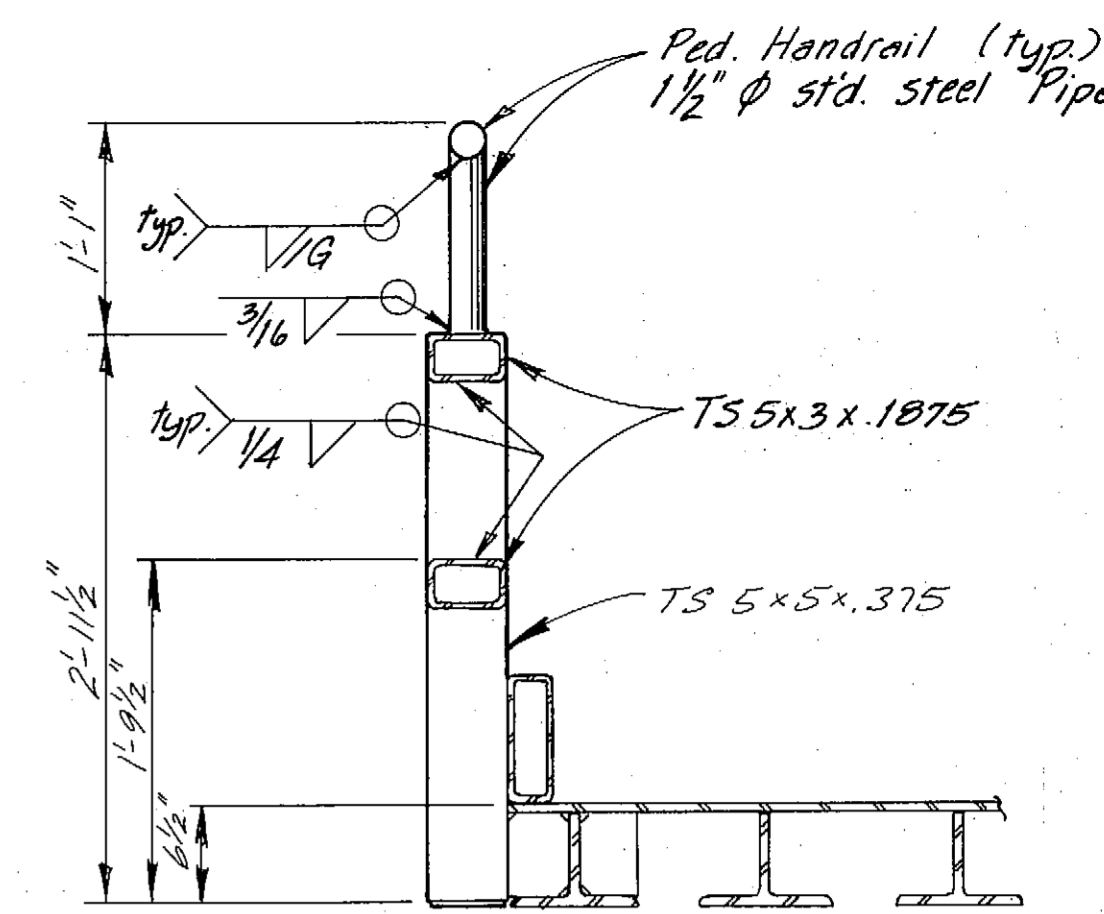
2-25-85



**ELEVATION**  
0 1 2 3 4 5  
ft.

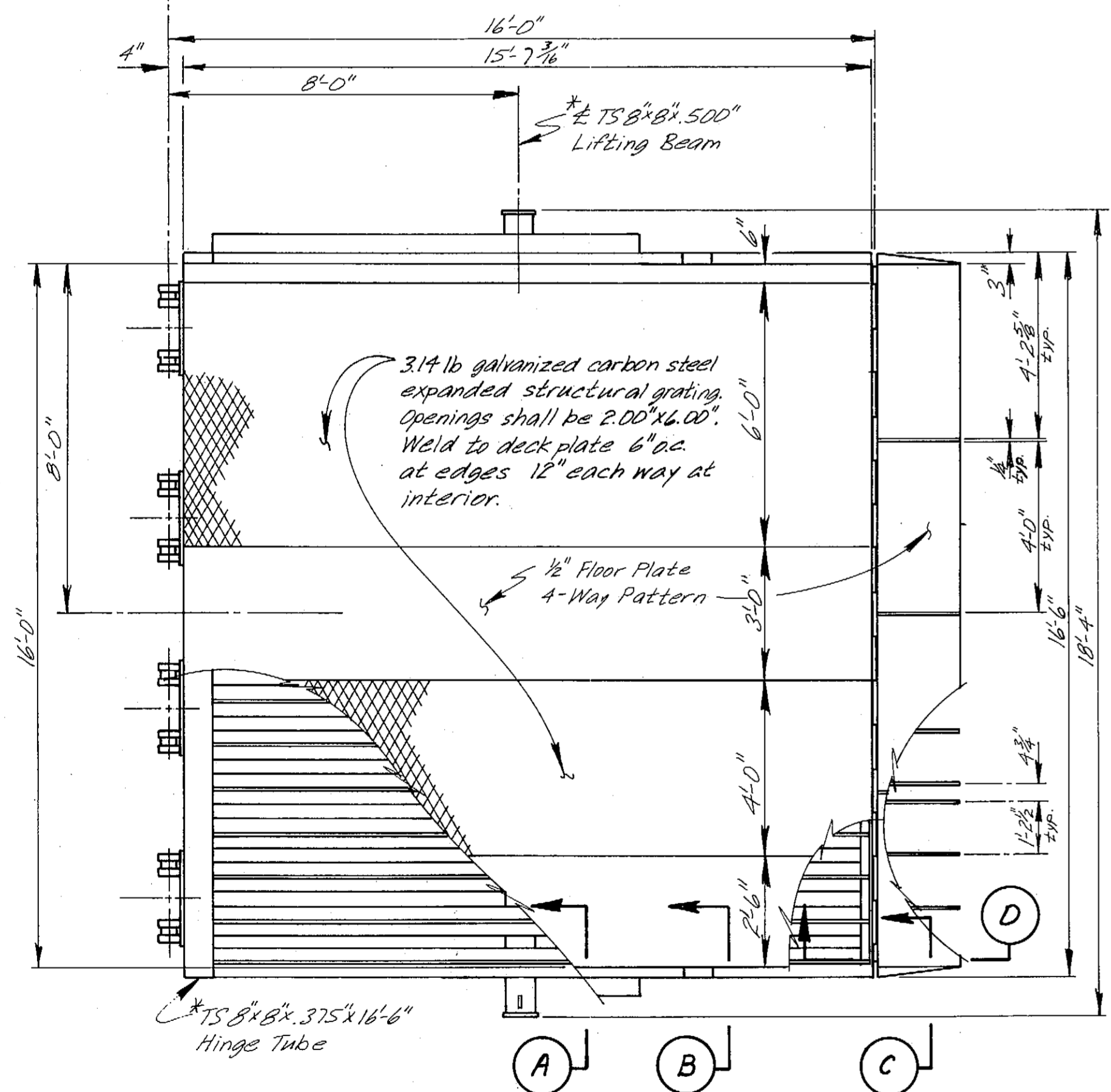


**TYPICAL SECTION**  
0 1 2 3 4 5  
ft.

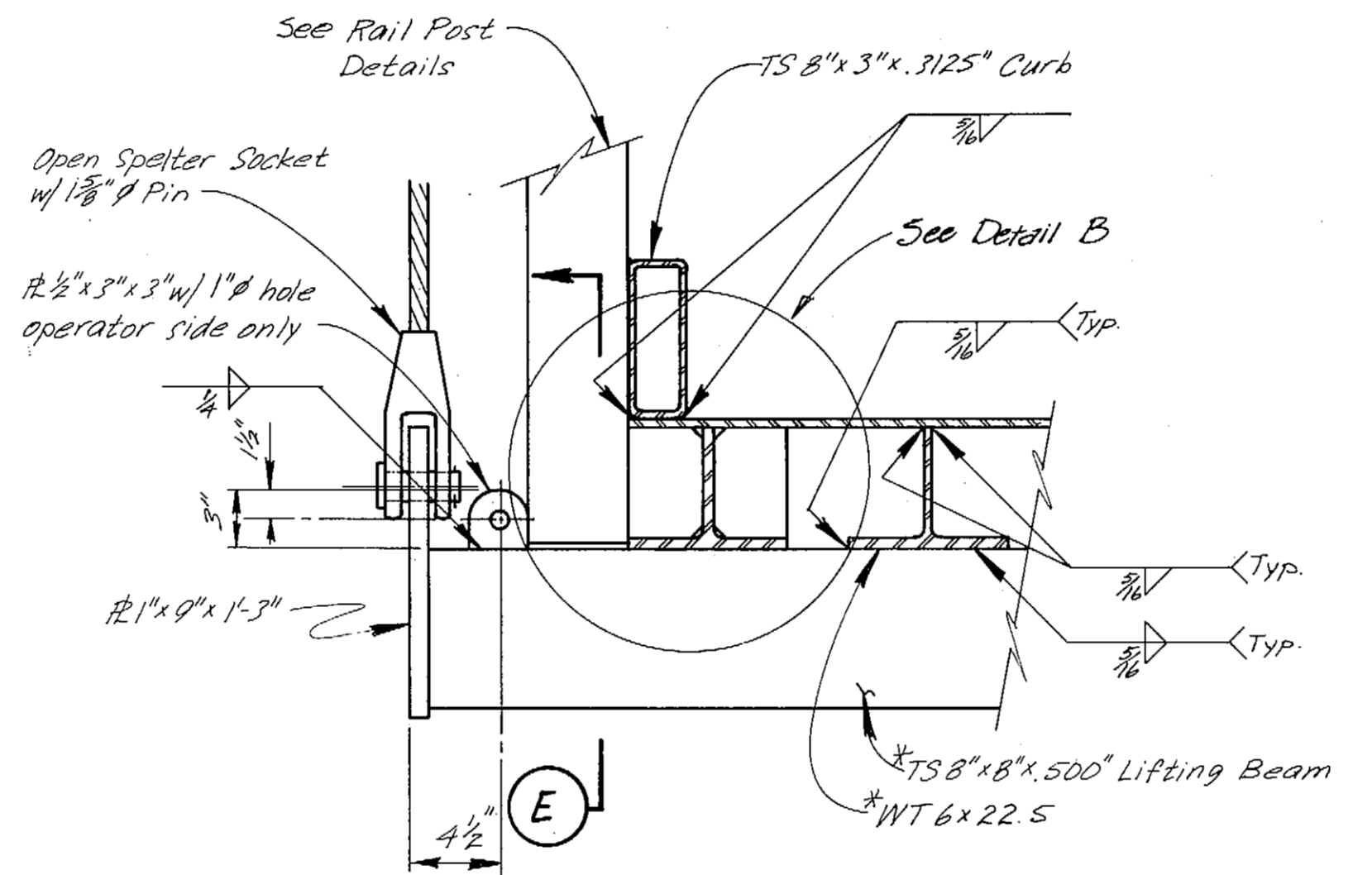


**DETAIL A**  
0 6 12 inches

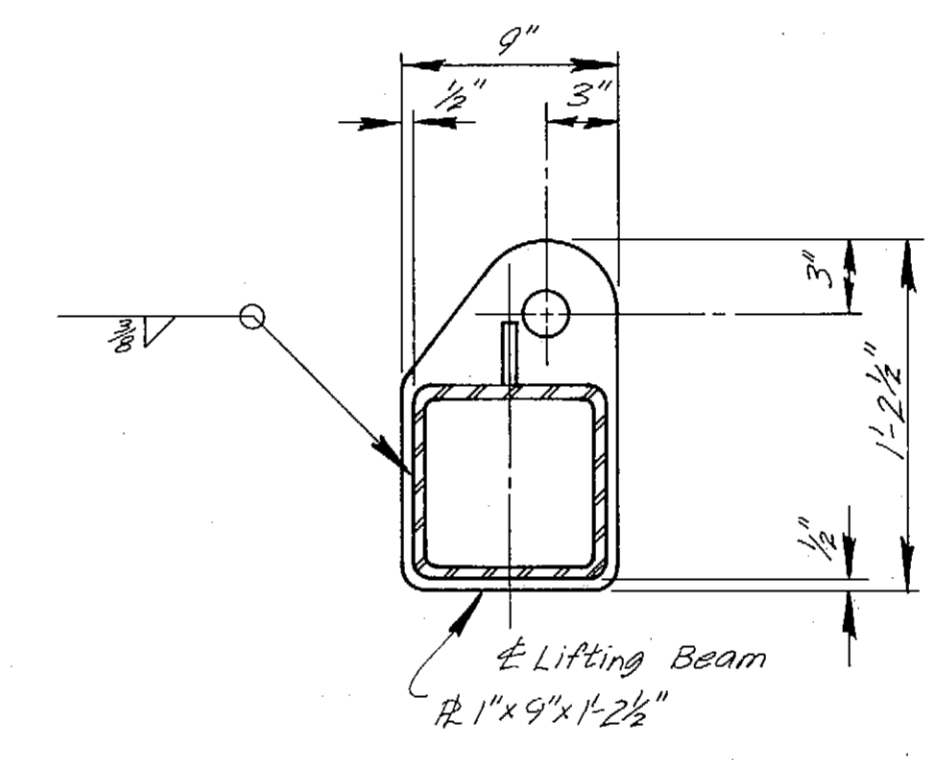
Hinge, see Details, sheet 37



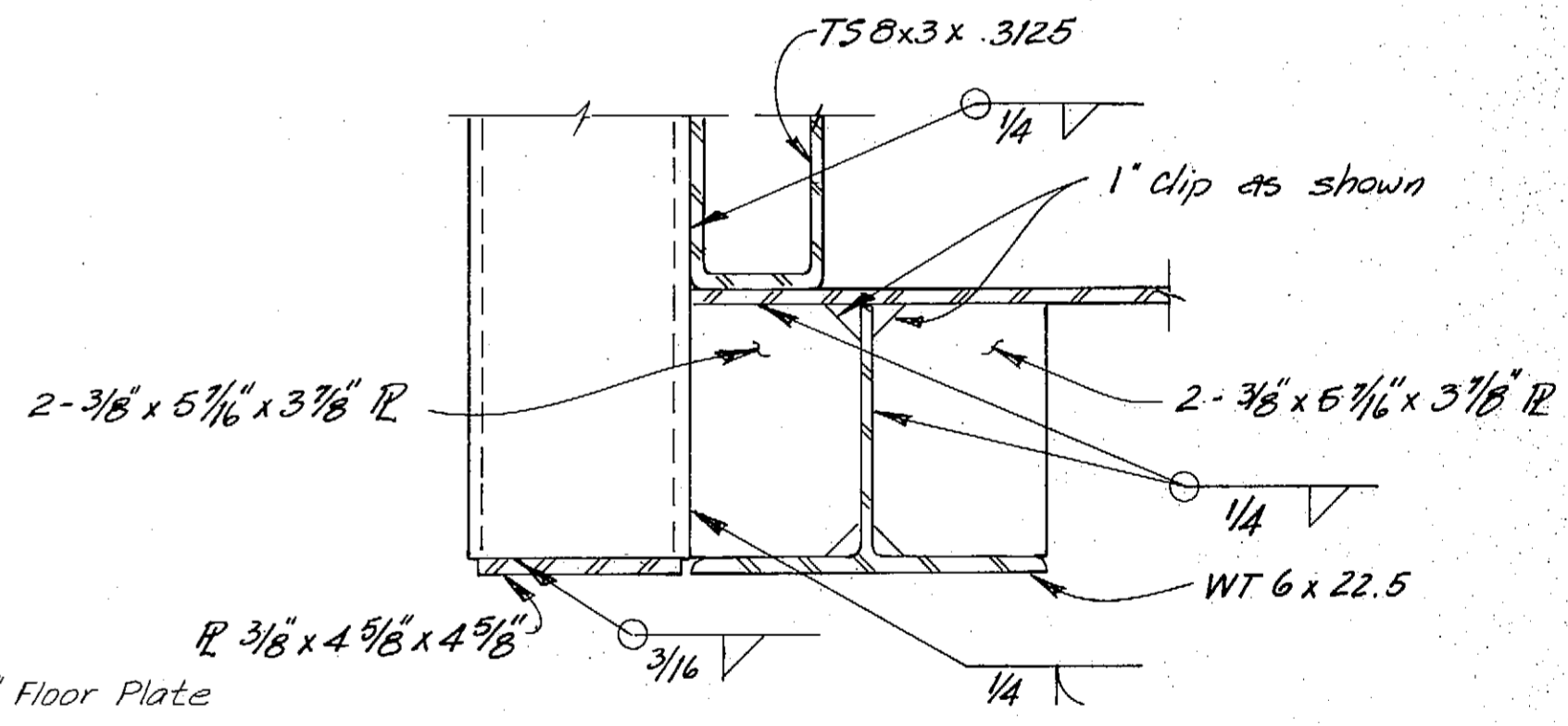
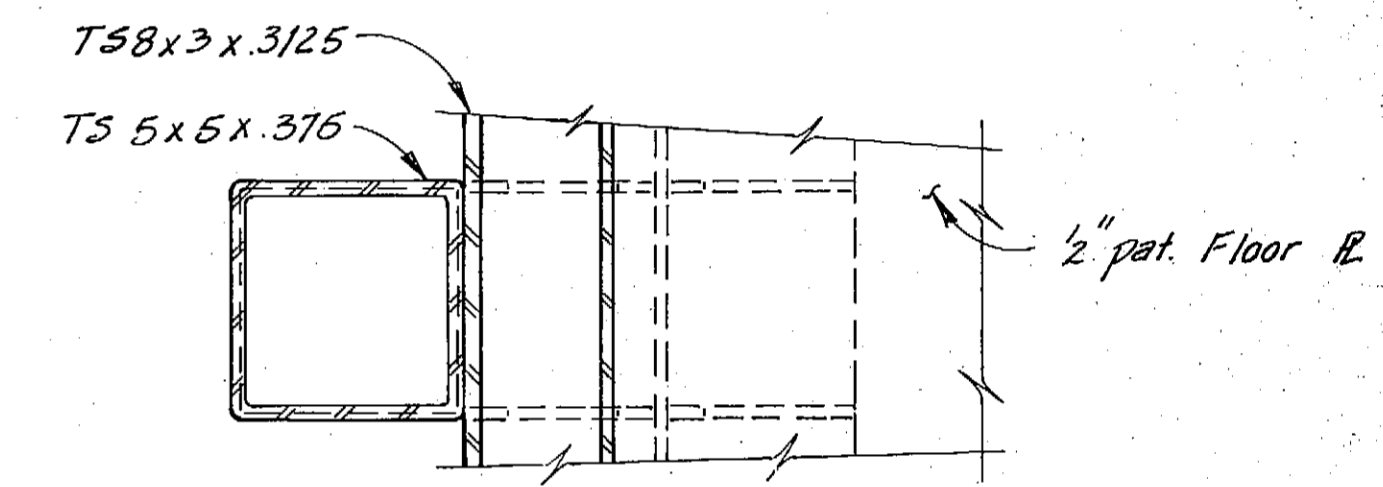
**PLAN**  
0 1 2 3 4 5  
ft.



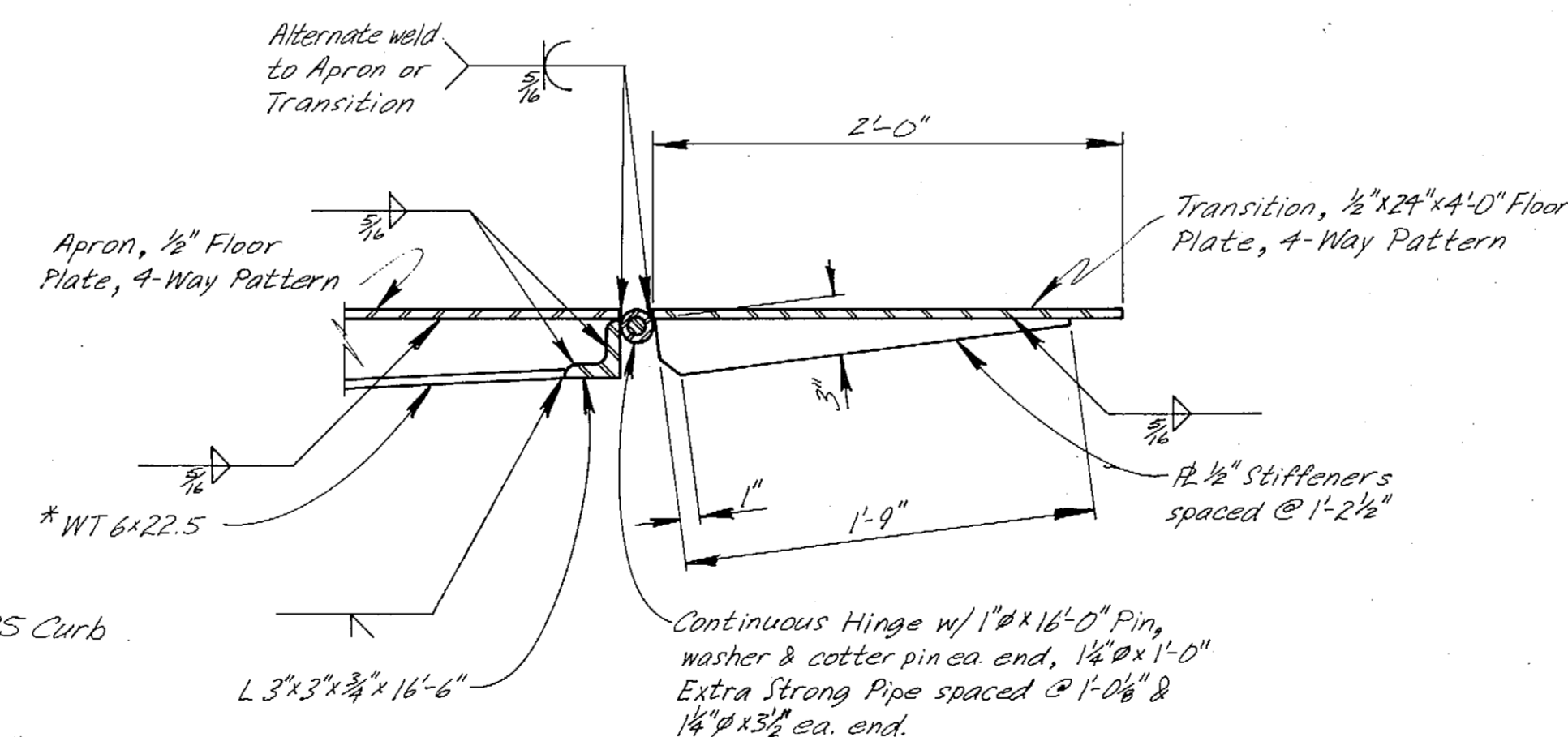
**SECTION A**  
0 6 12 inches



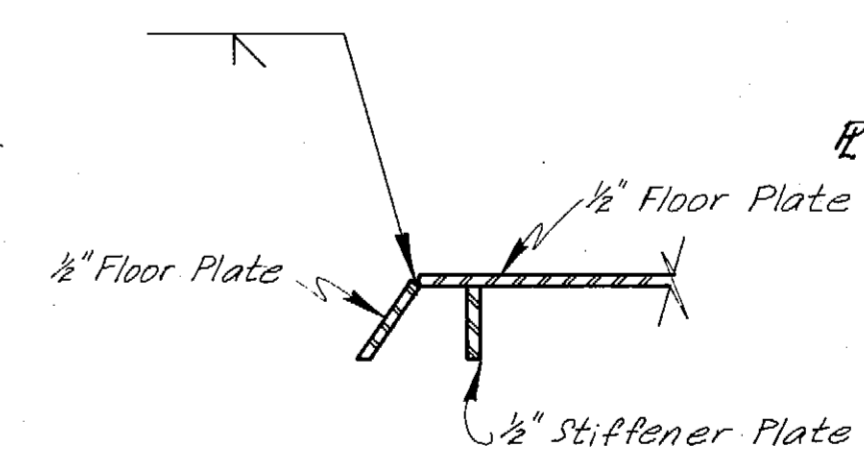
**SECTION E**  
0 6 12 inches



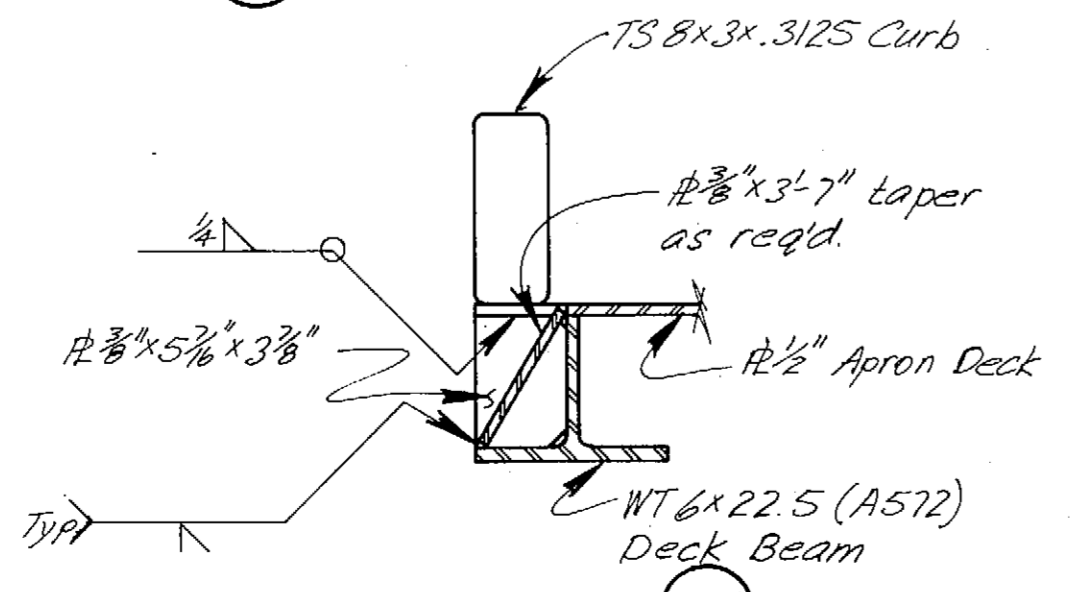
**DETAIL B**  
0 6 12 inches



**SECTION D**  
0 6 12 inches



**SECTION C**  
N.T.S.

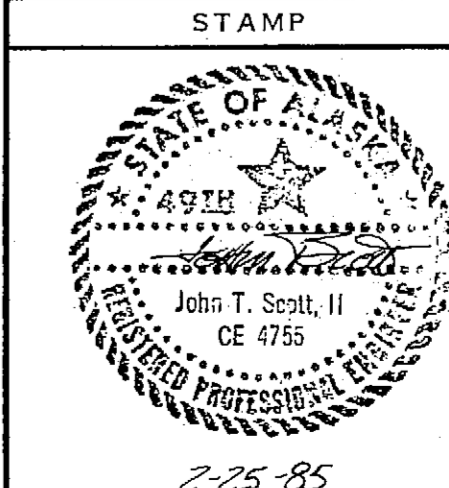


**SECTION B**  
N.T.S.

Notes:  
1. \*Main members subject to tensile stress.  
2. Galvanize after fabrication.  
3. Close all open ended pipe or tubing with 1/4" R and seal weld.

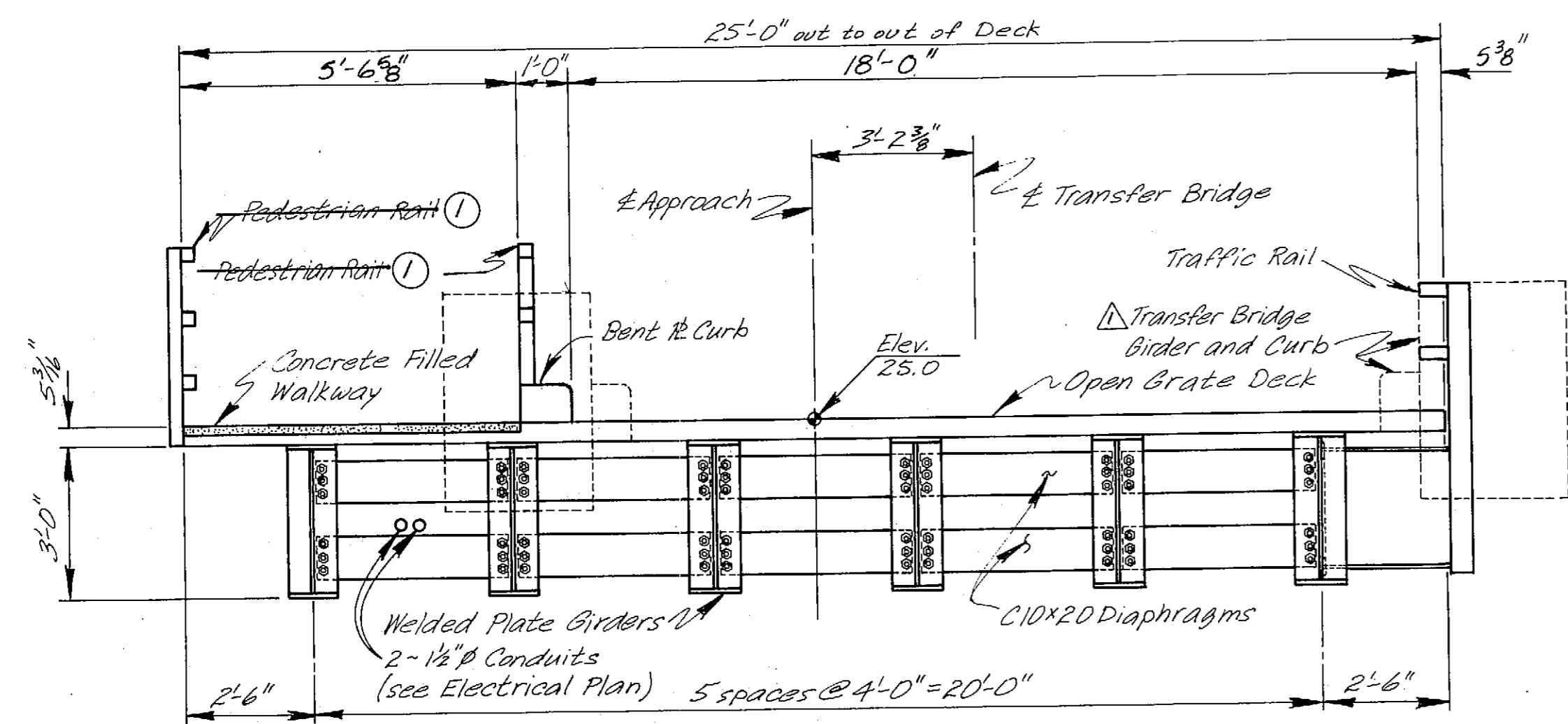
**AS-BUILT**

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

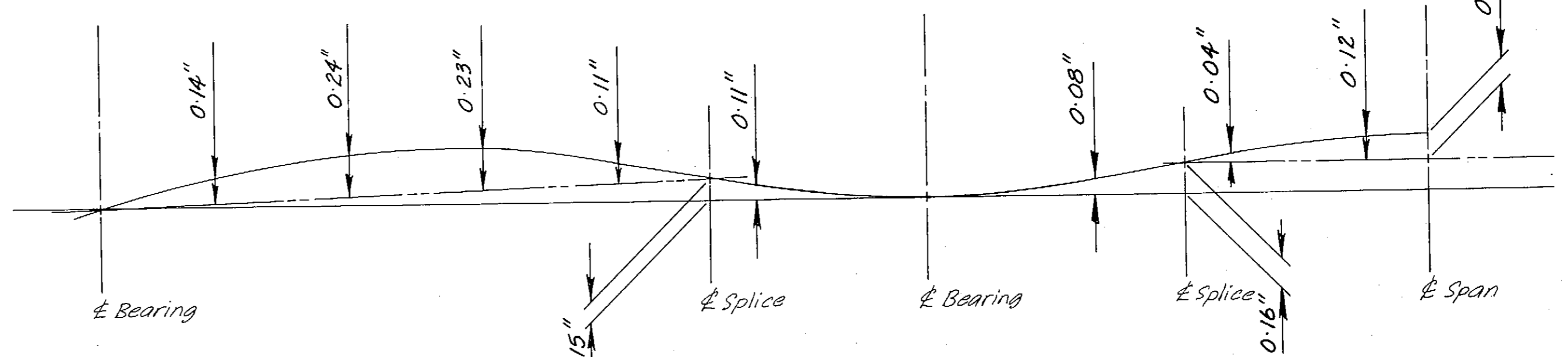


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
<b>APRON DETAILS</b>		
SCALE <i>As Noted</i>	SURVEYED	APPROVED
DESIGNED <i>LJP</i>	DRAWN <i>LJB</i>	
CHECKED <i>JS</i>	DATE <i>1/84</i>	
PROJECT NUMBER <i>A38502</i>	SHEET <i>42</i> OF <i>62</i>	

2-25-85

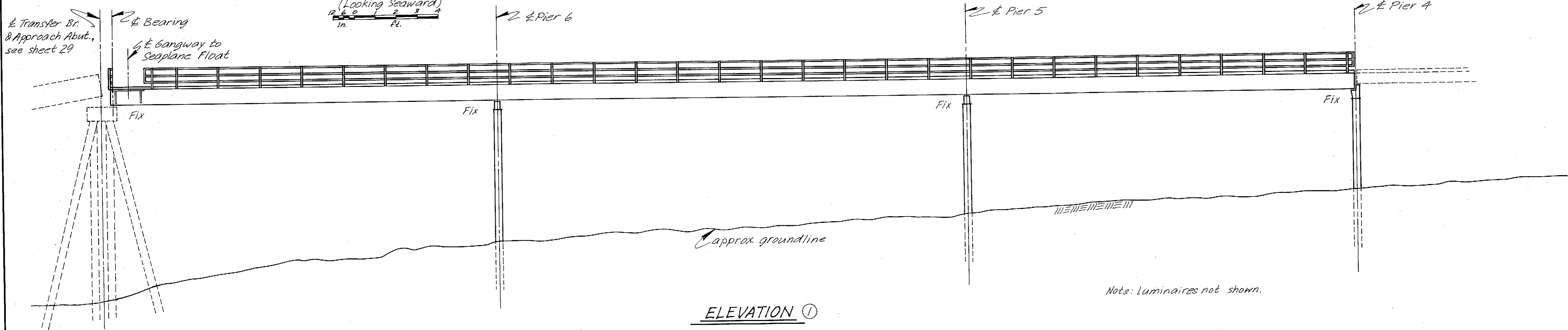


TYPICAL SECTION  
(Looking Seaward)

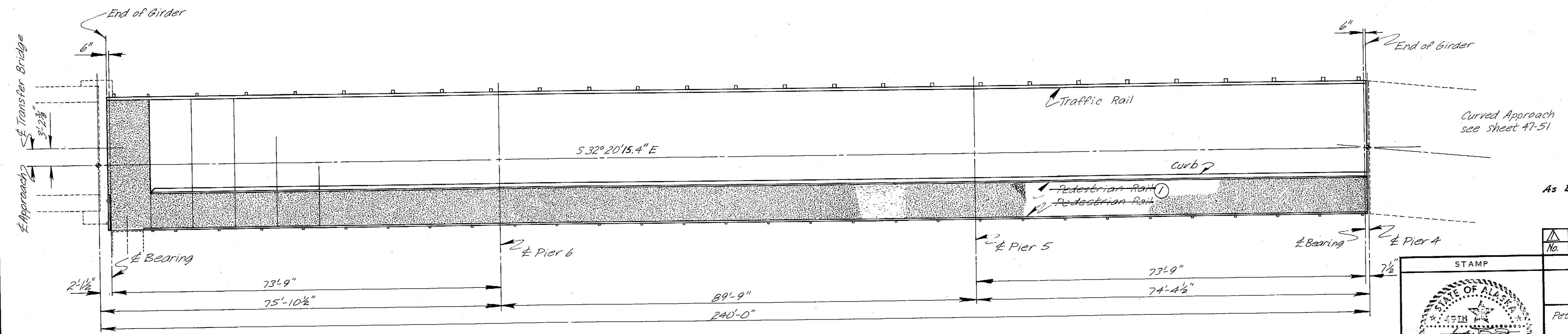


CAMBER DIAGRAM  
N.T.S.

Note: Deflections given @ Diaphragm and Splice locations.



ELEVATION ①

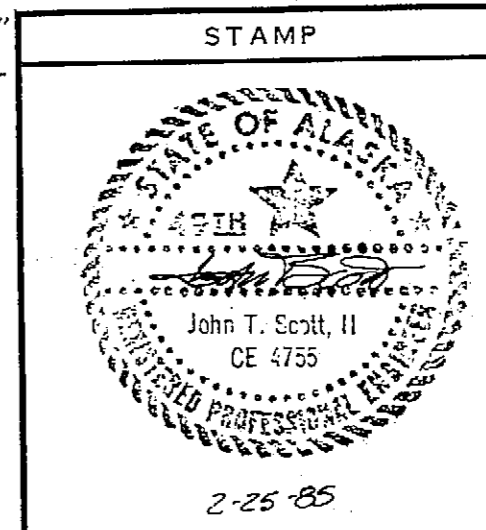


PLAN  
0 5 10 15 20  
Fe.

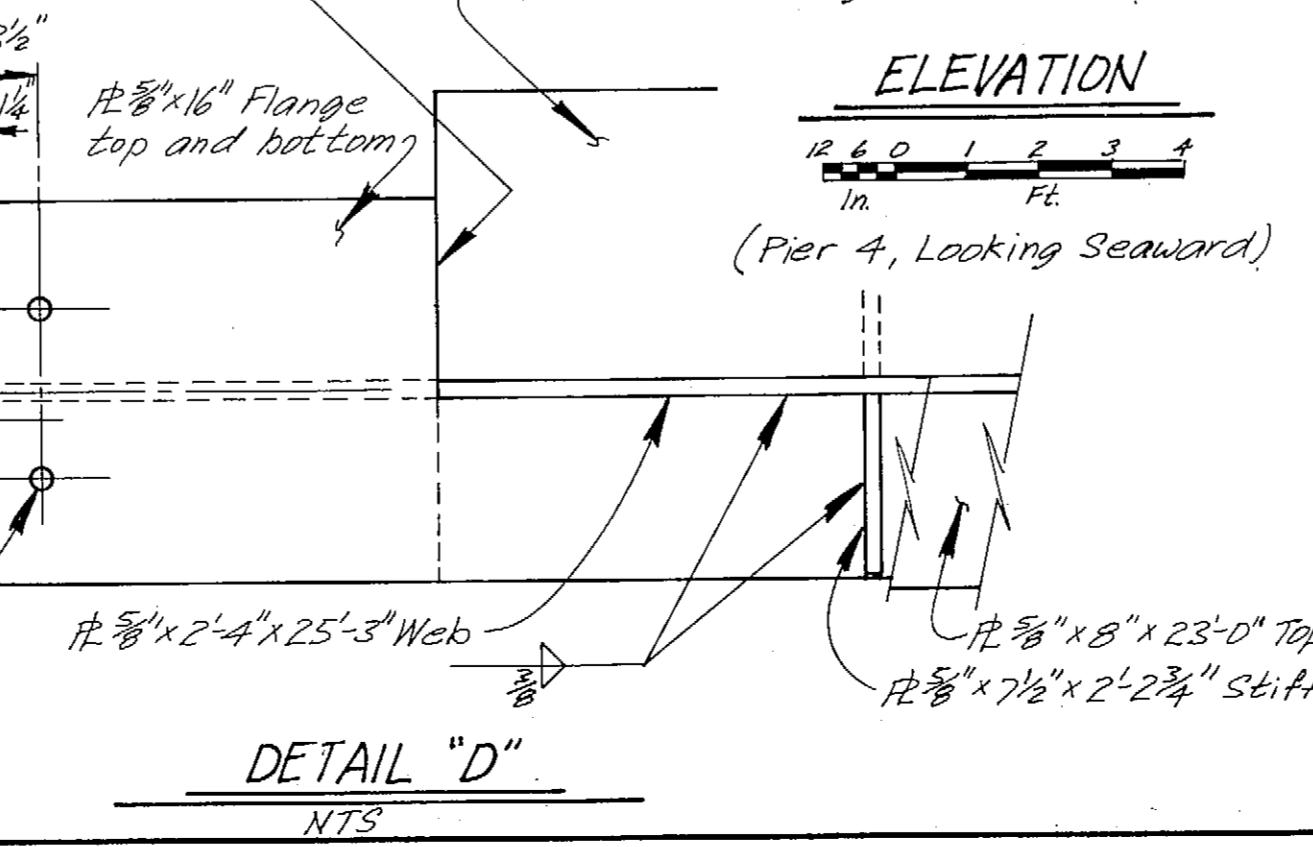
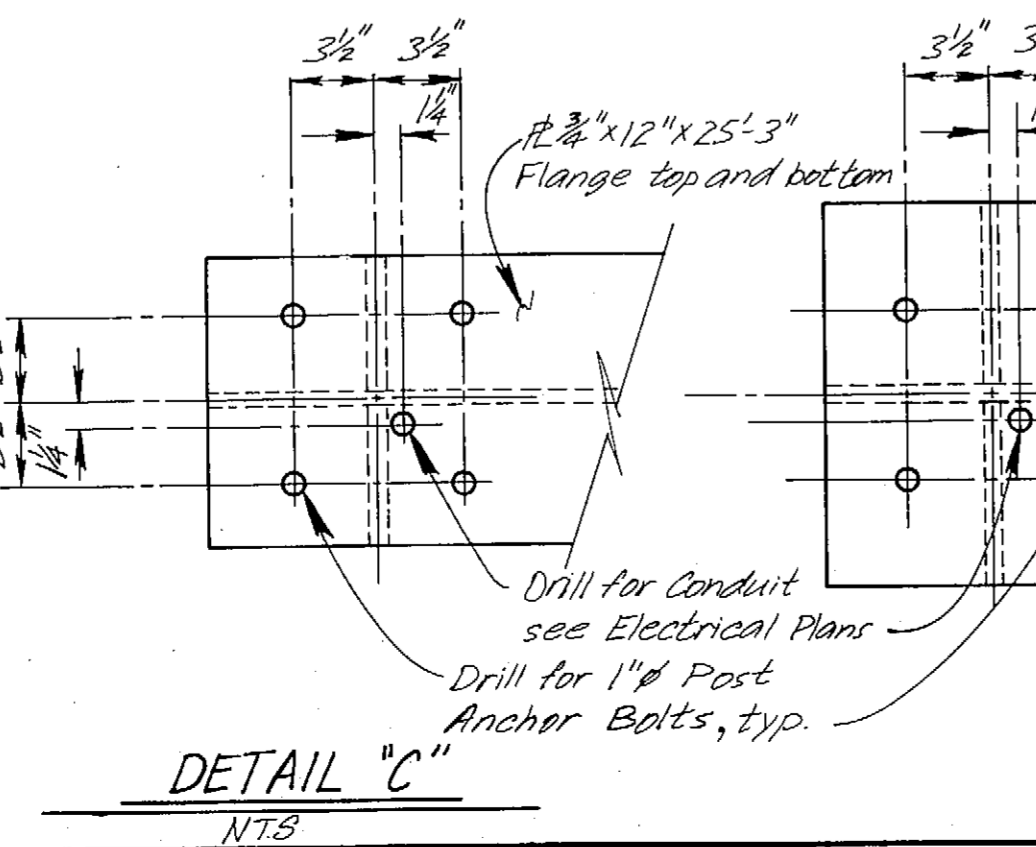
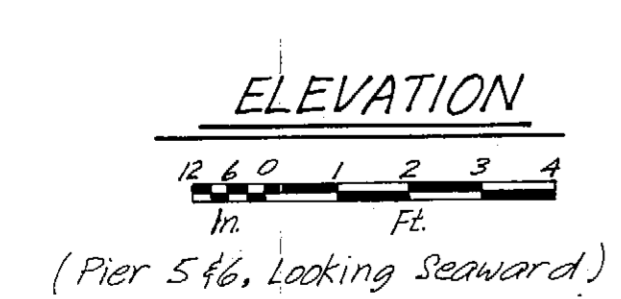
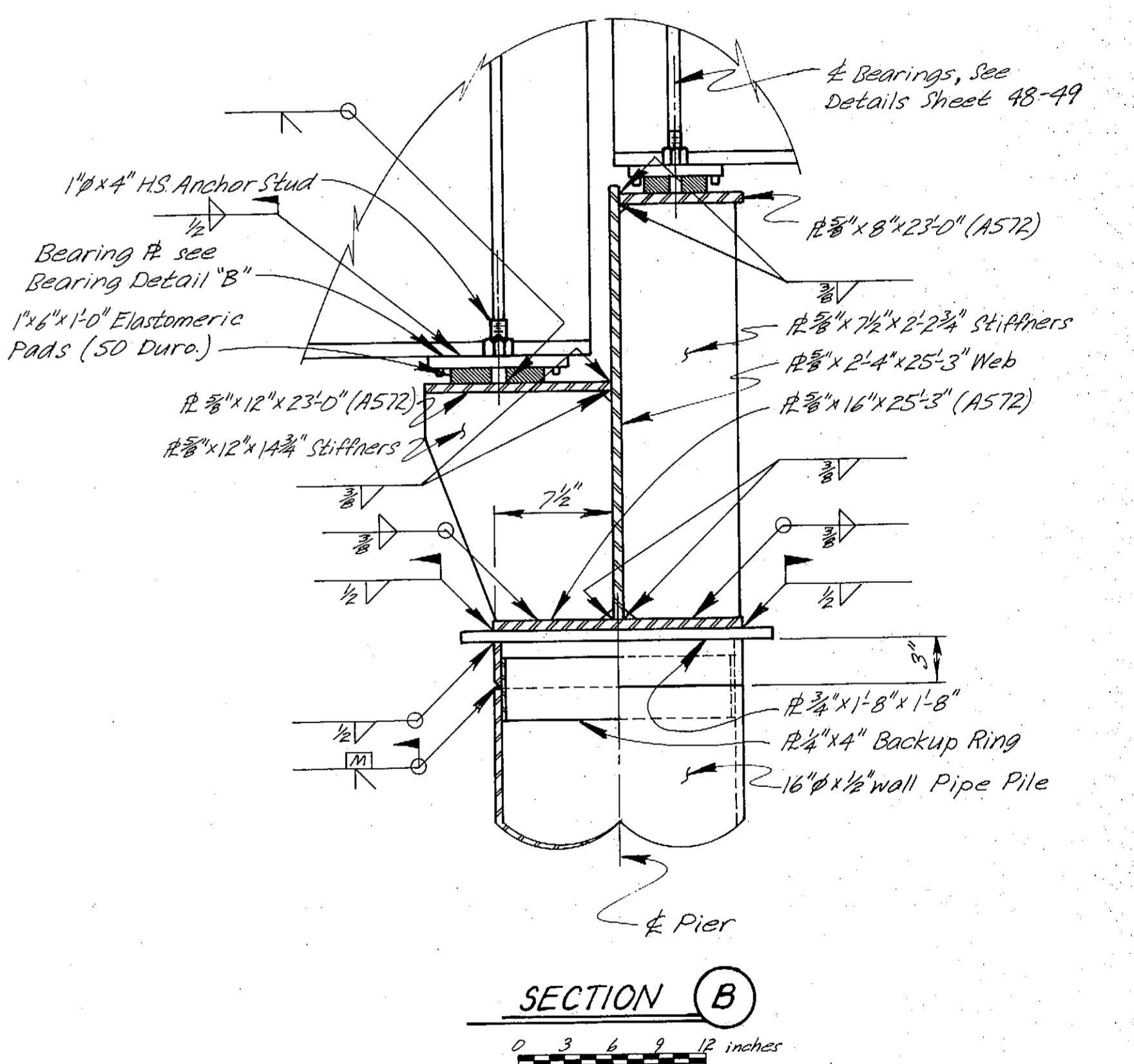
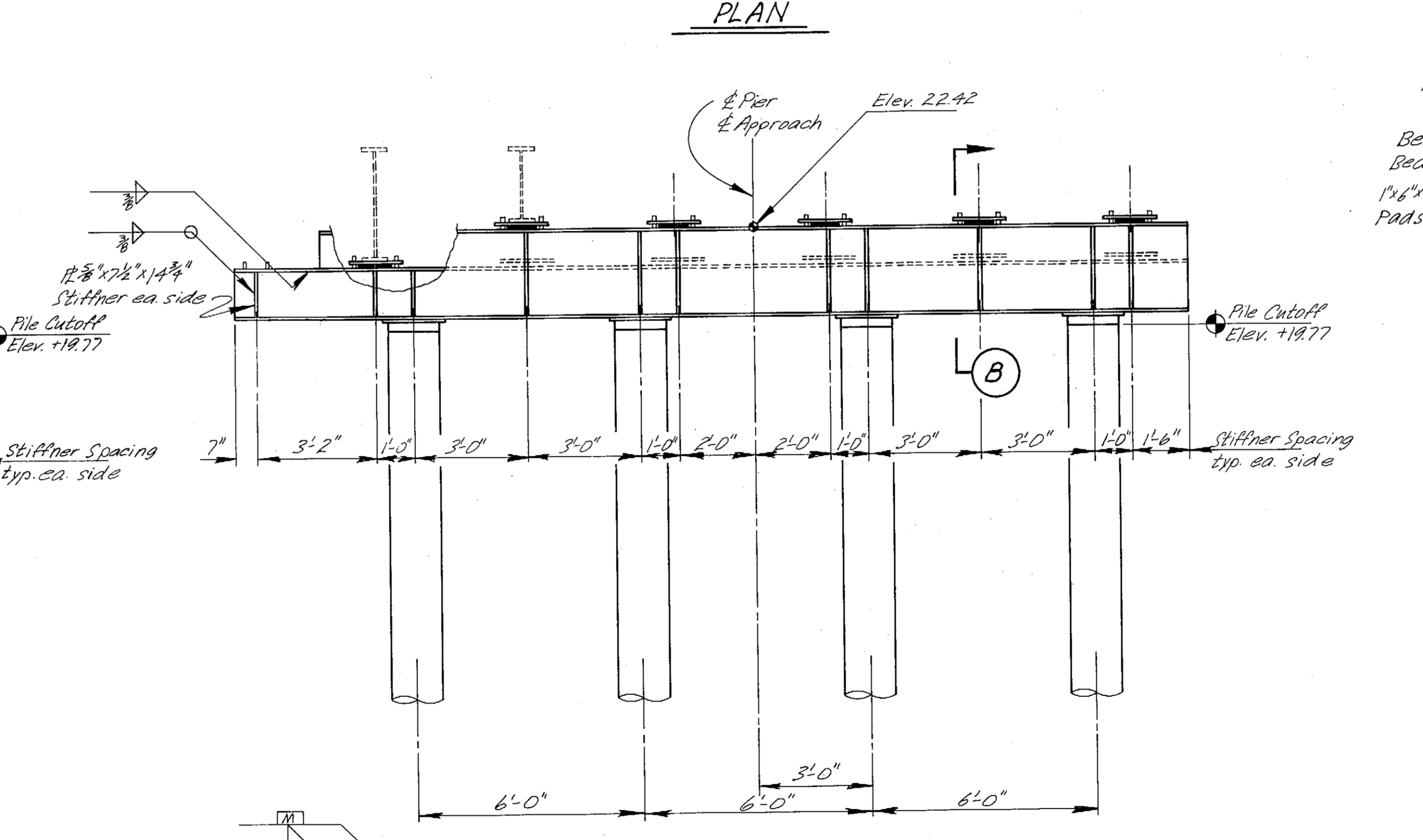
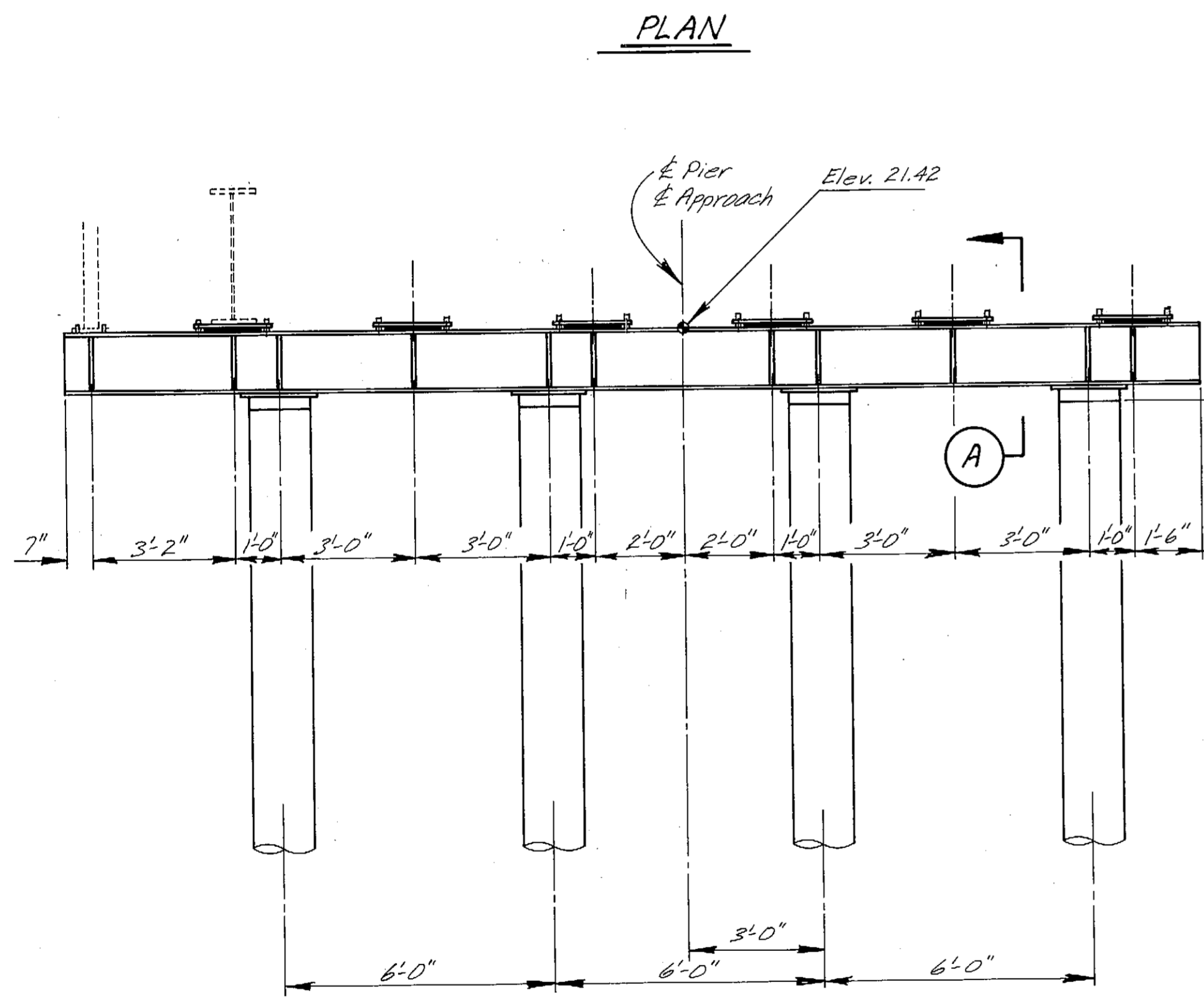
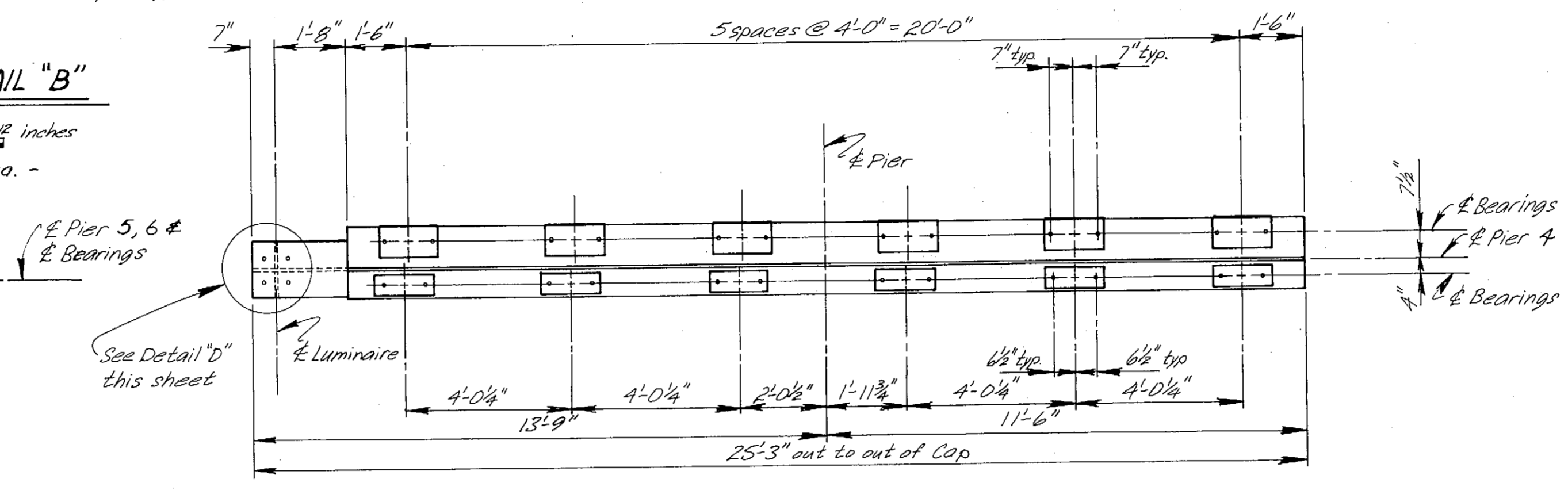
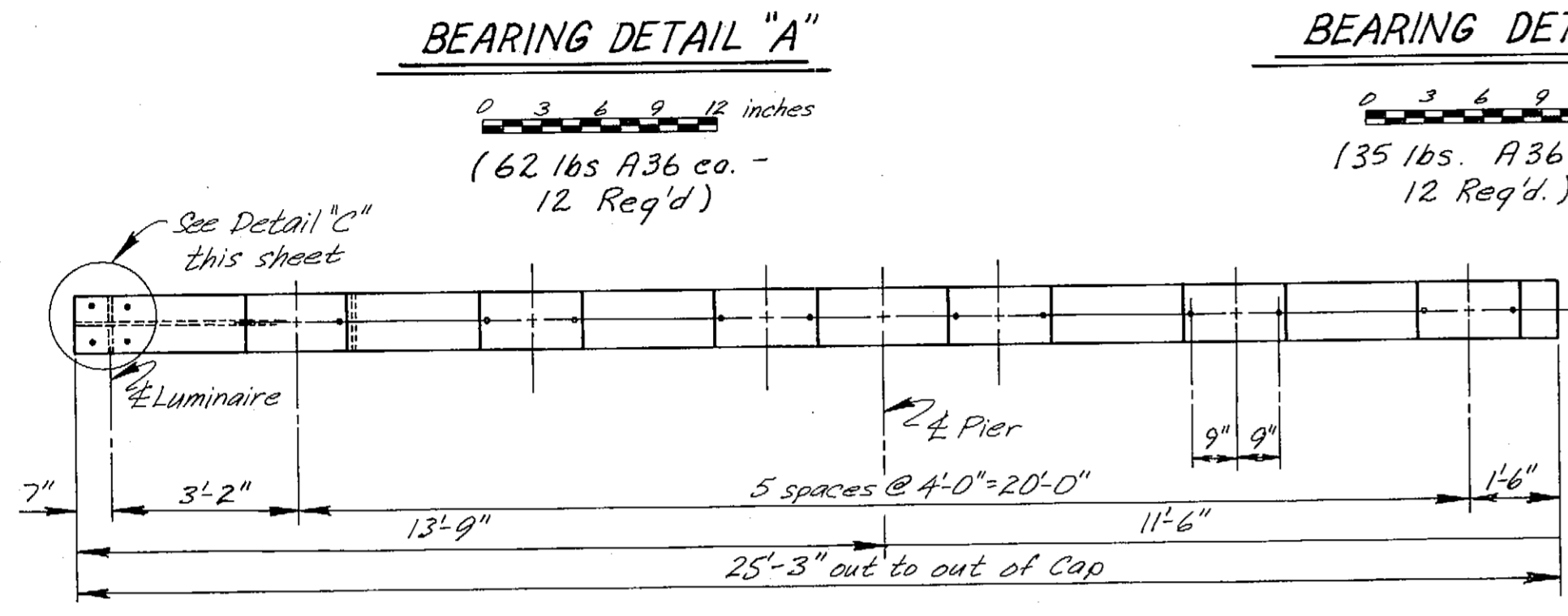
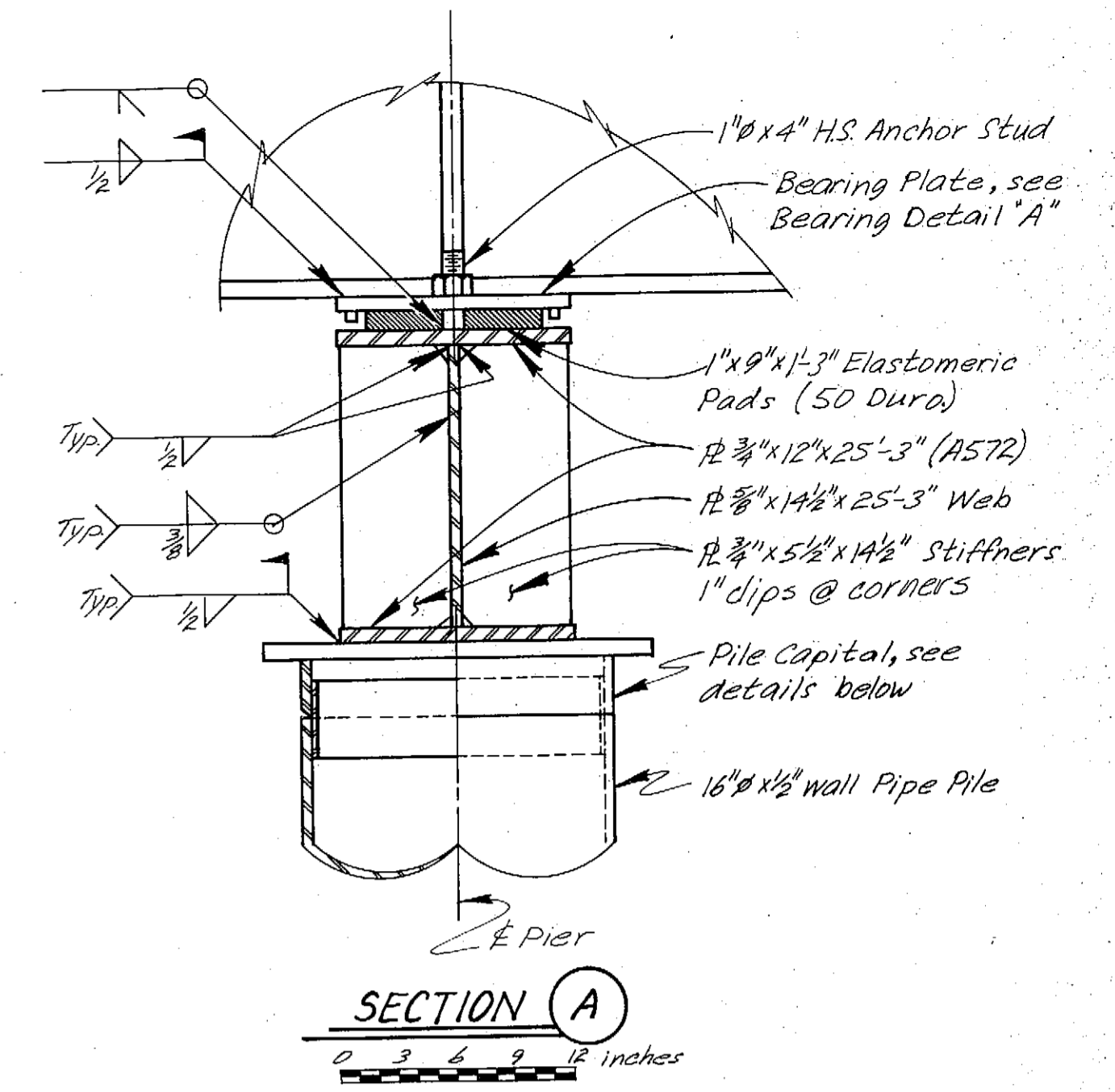
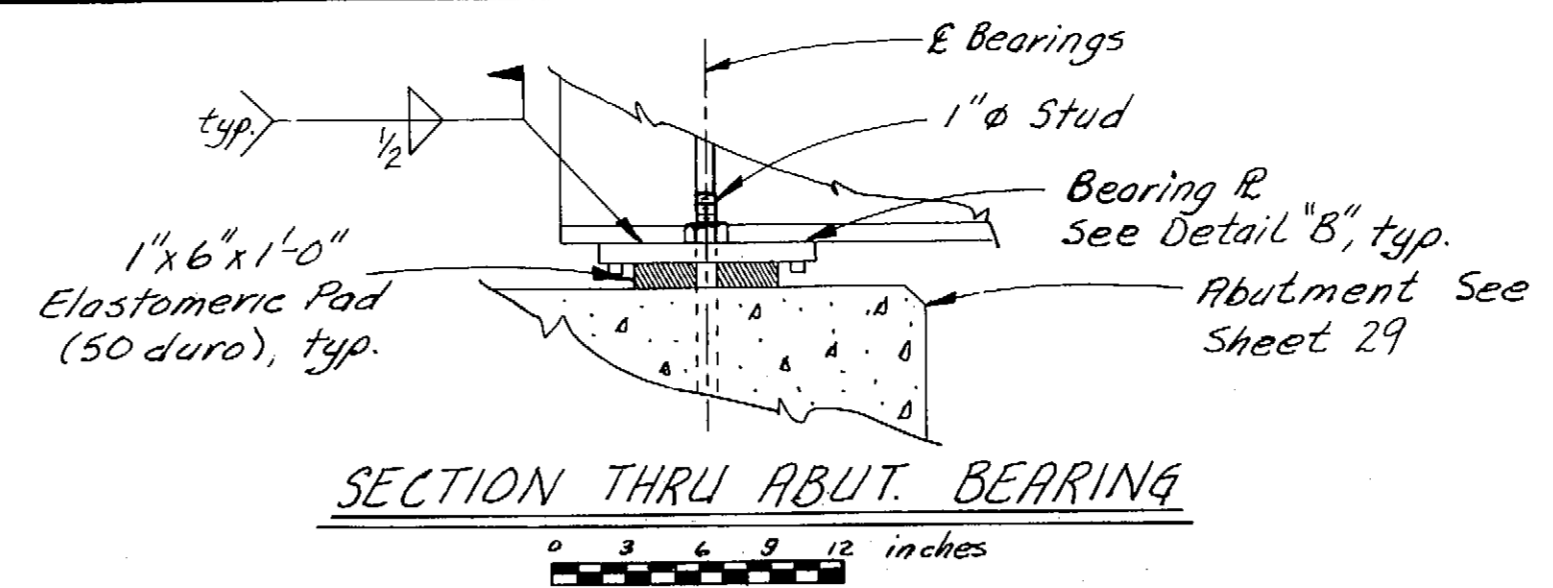
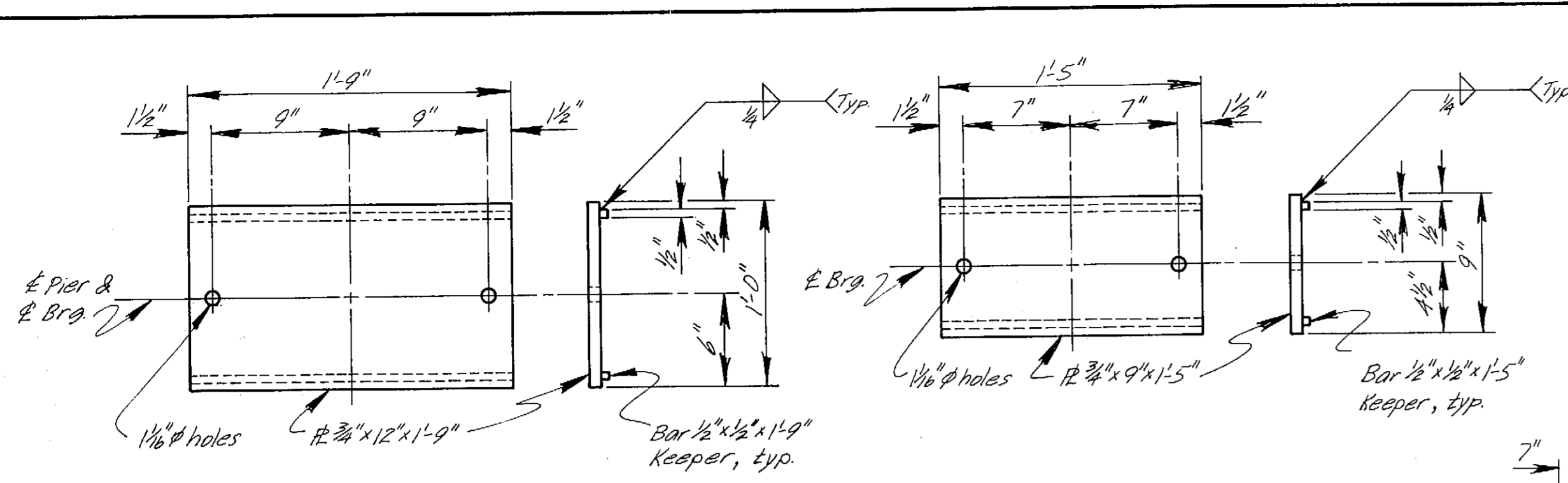
① Note: Alternate "A" shown this sheet for As Built -> Alternate "B", see details sheet 60

AS-BUILT

No.	Add Transfer Bridge Girders and Curb	3/85	LJB
	Corrections	Date	By



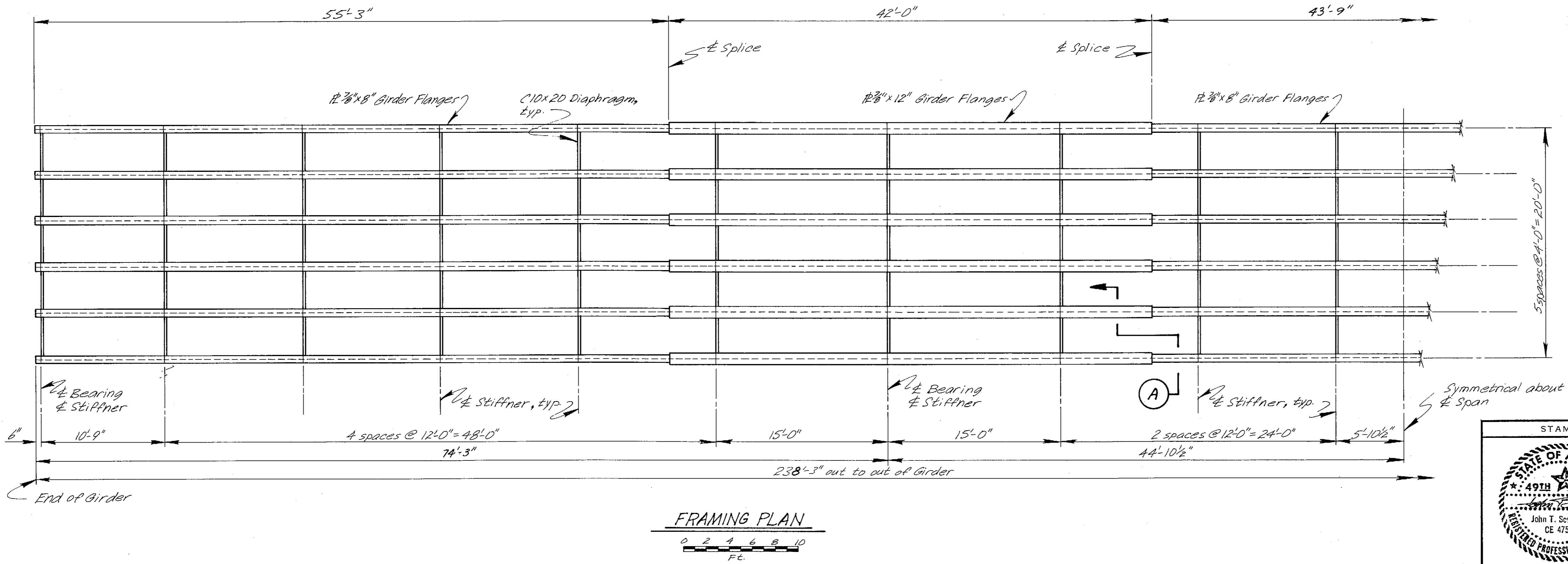
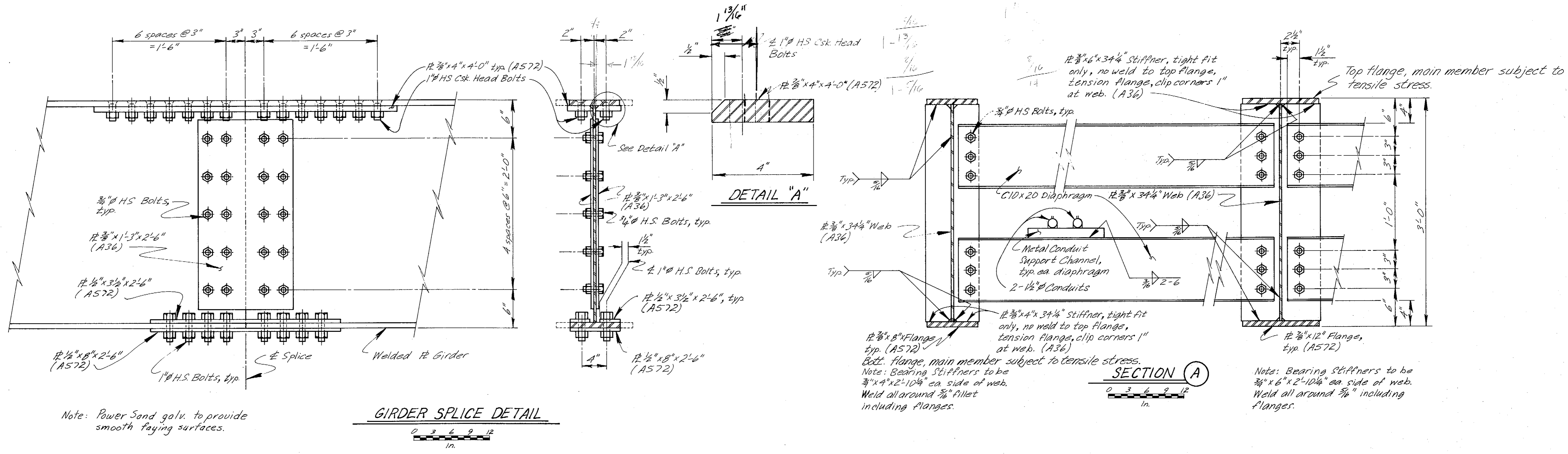
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
<b>CONTINUOUS APPROACH LAYOUT</b>		
SCALE: As Noted	SURVEYED	APPROVED
DESIGNED: V.S.	DRAWN: LJB	
CHECKED: BS	DATE: 1/84	
PROJECT NUMBER: A38502	SHEET 43 OF 61	



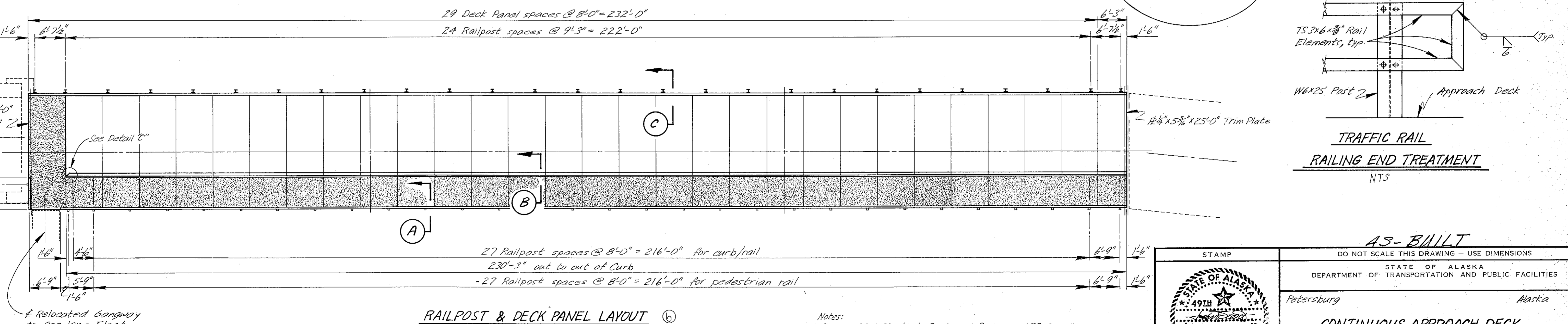
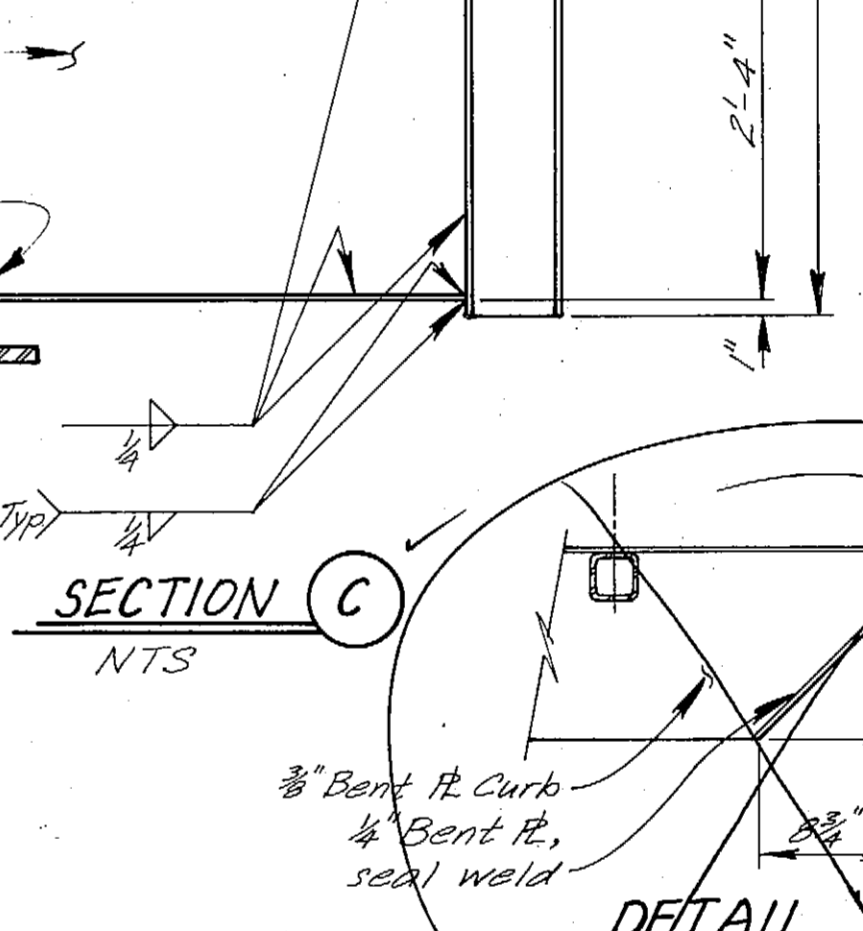
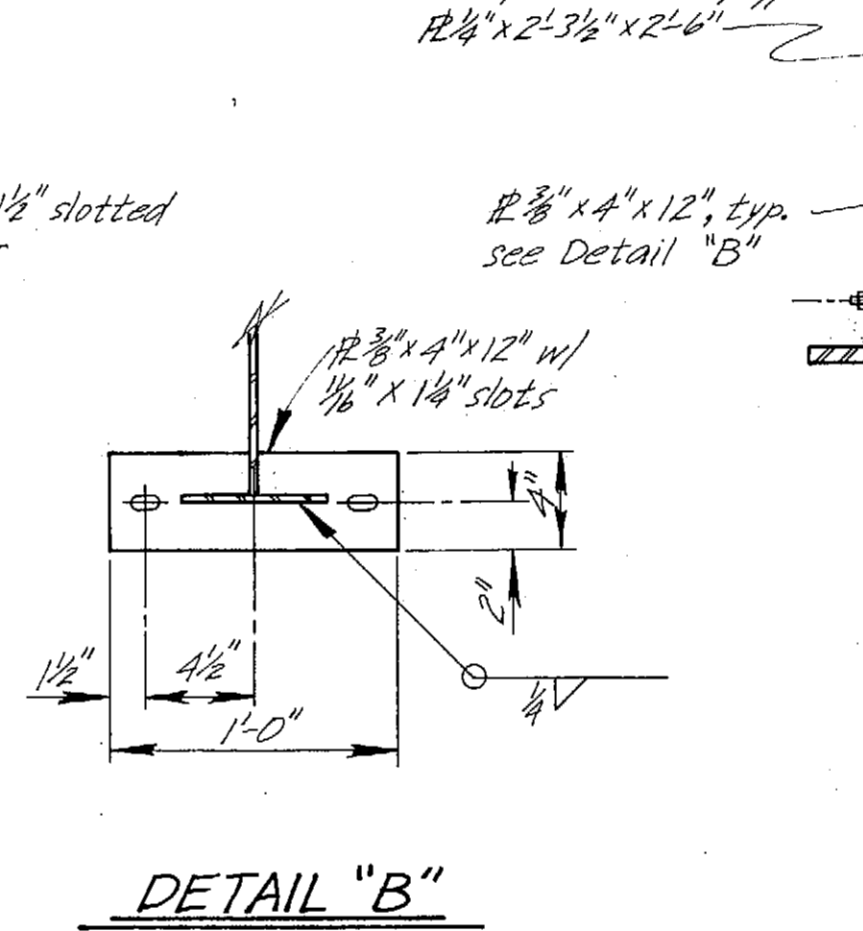
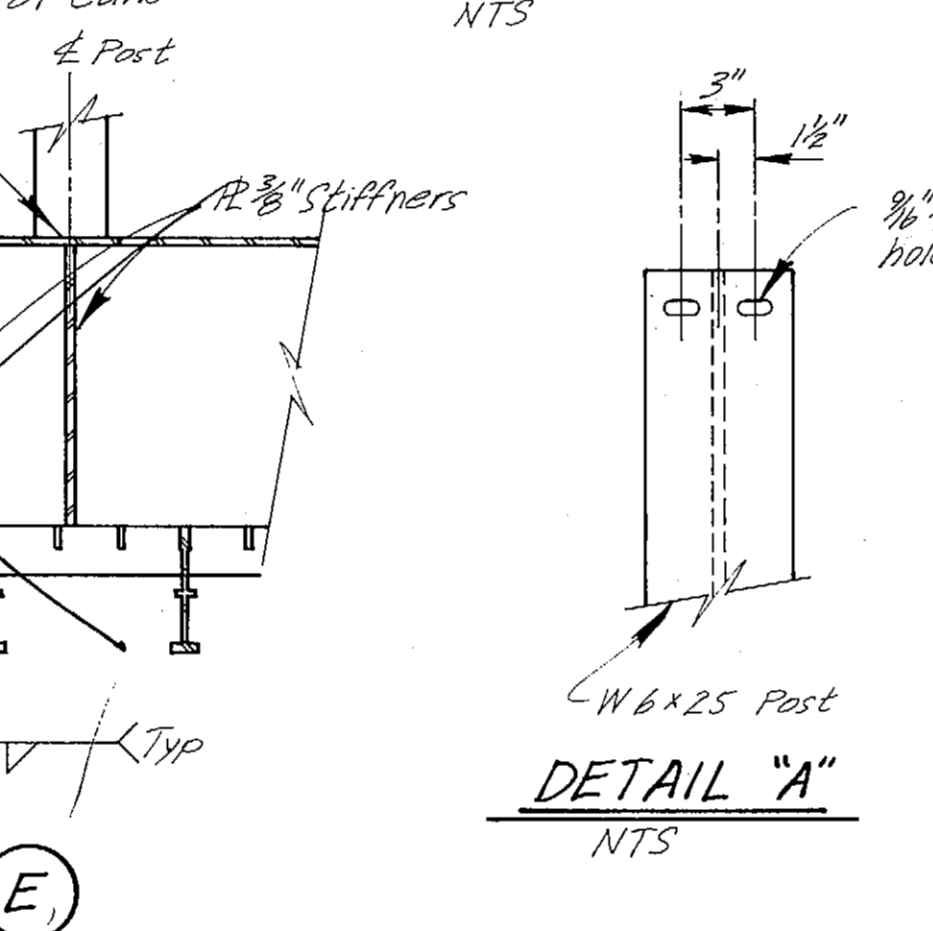
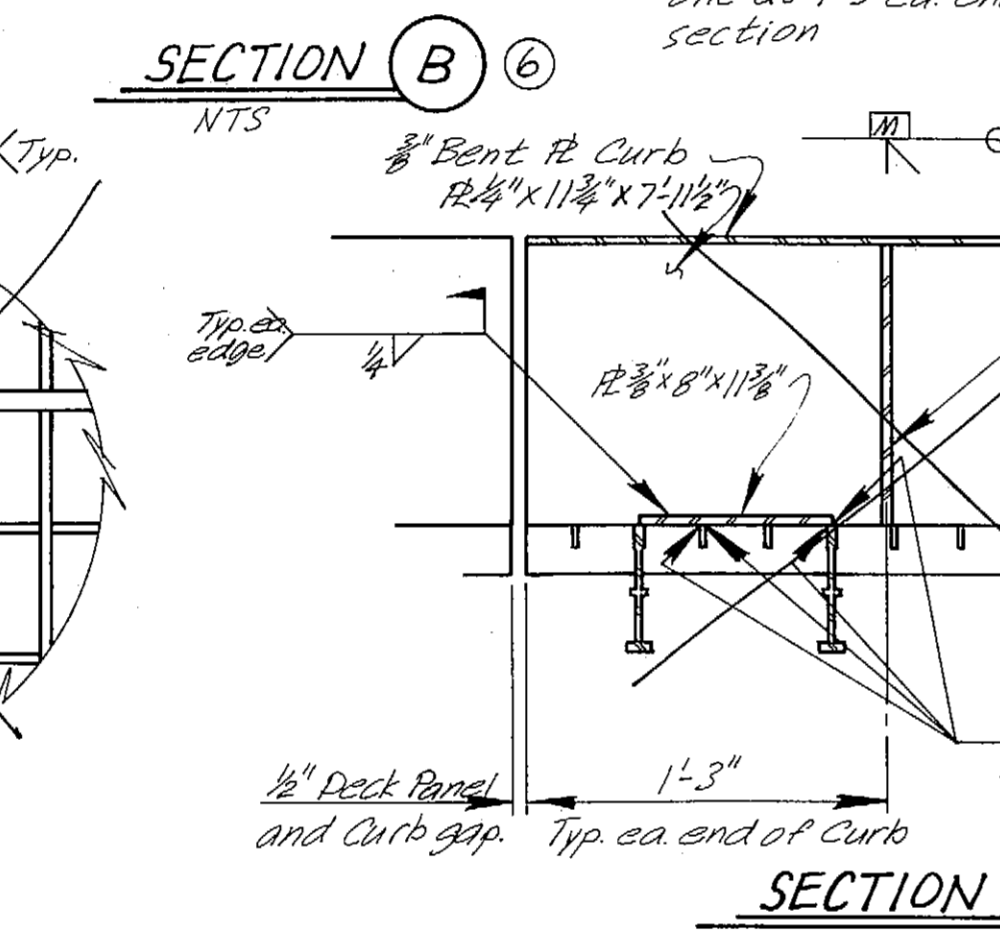
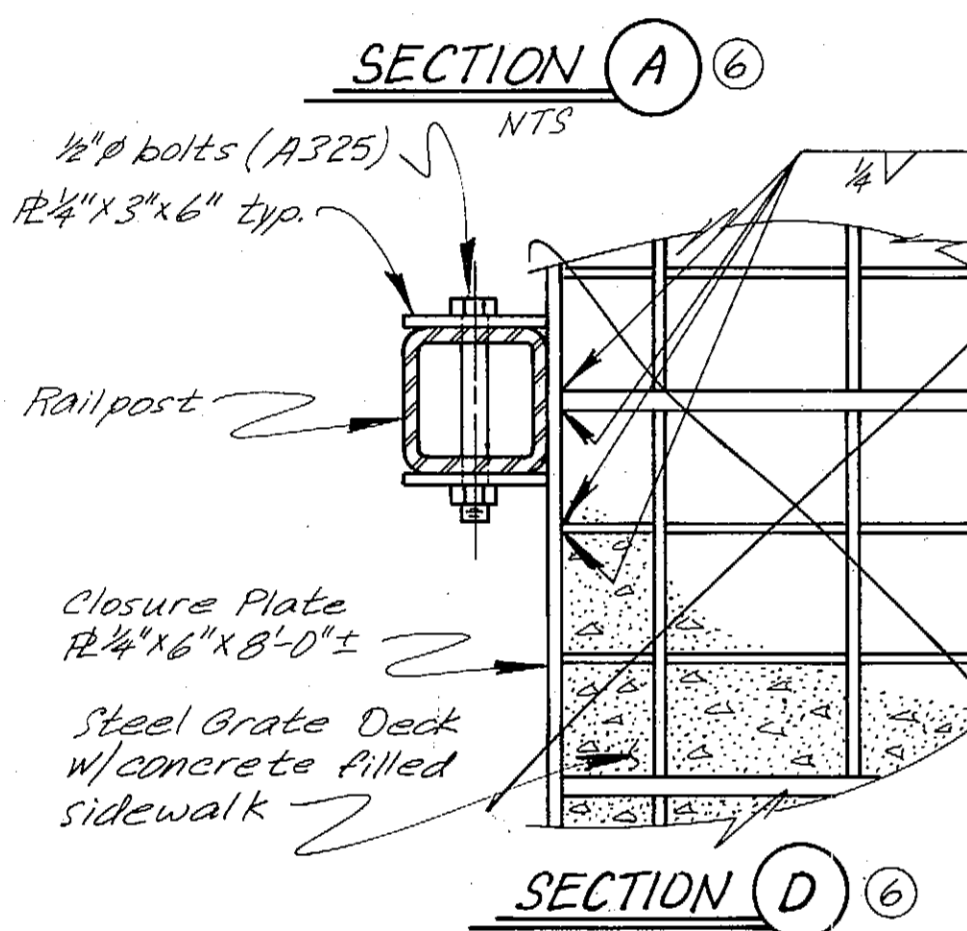
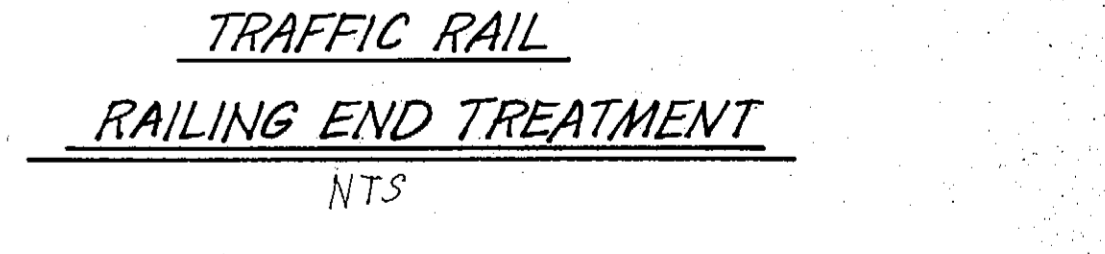
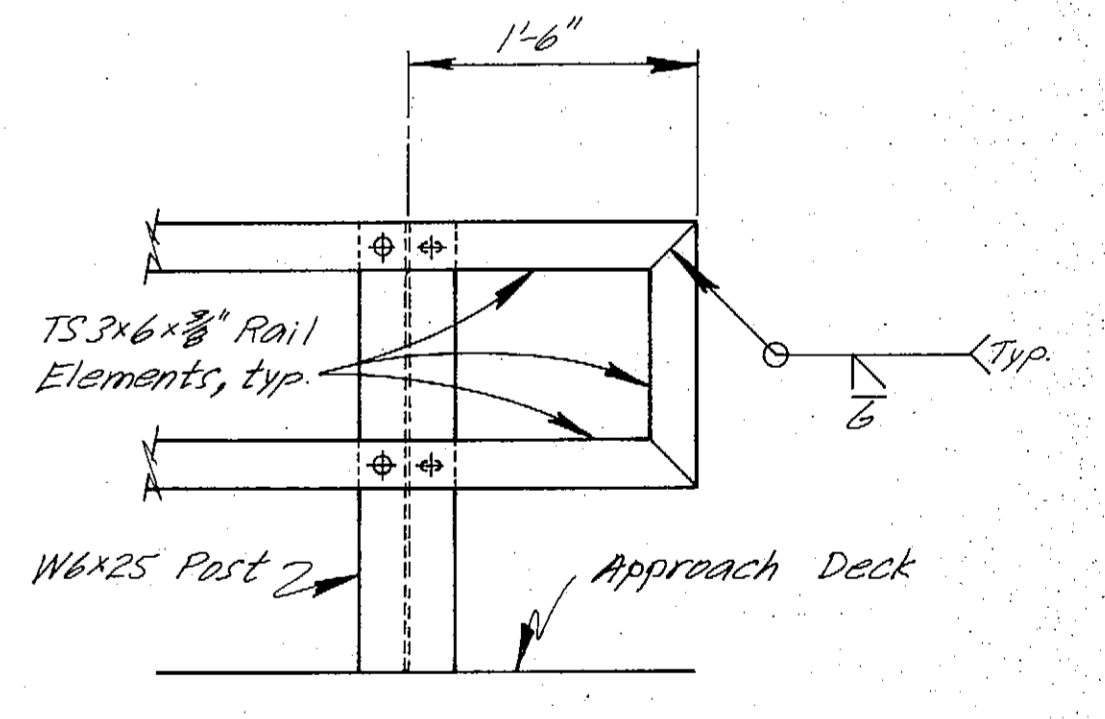
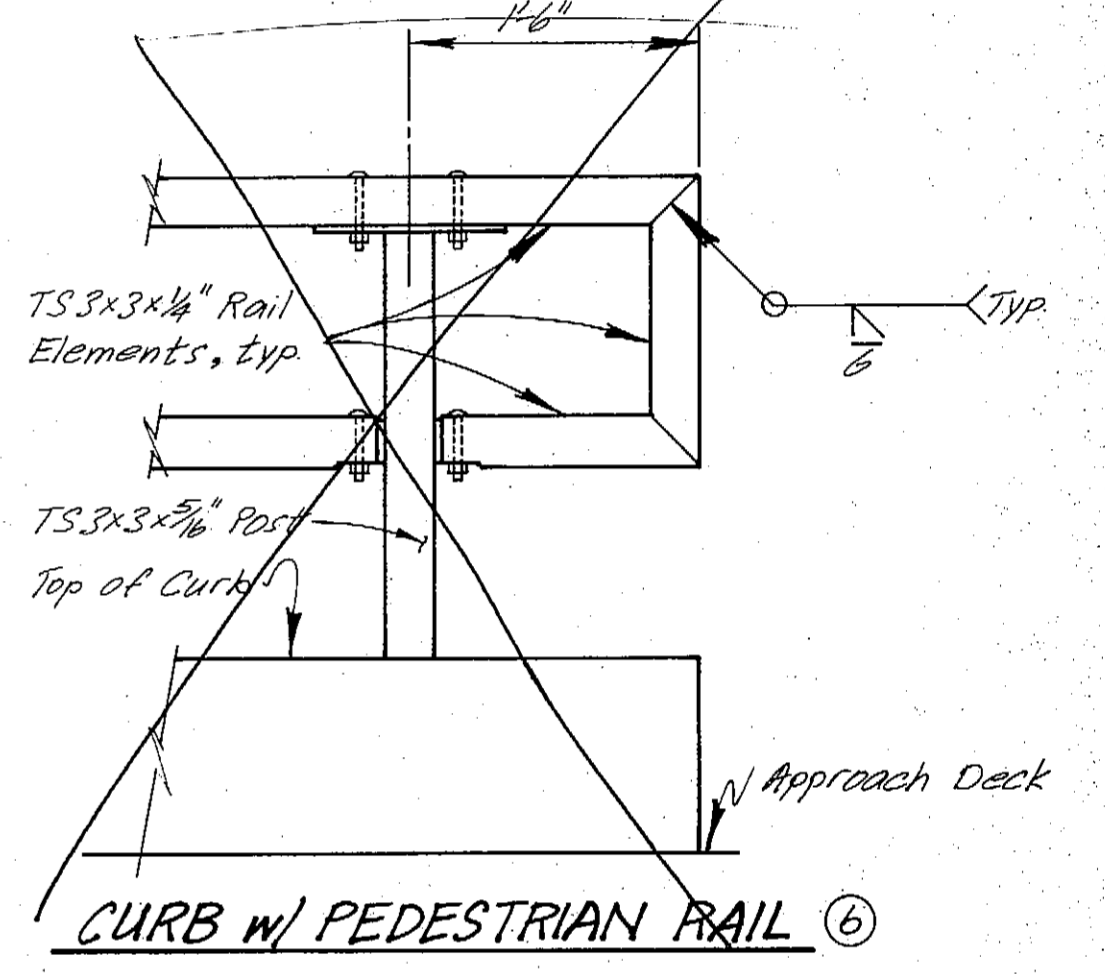
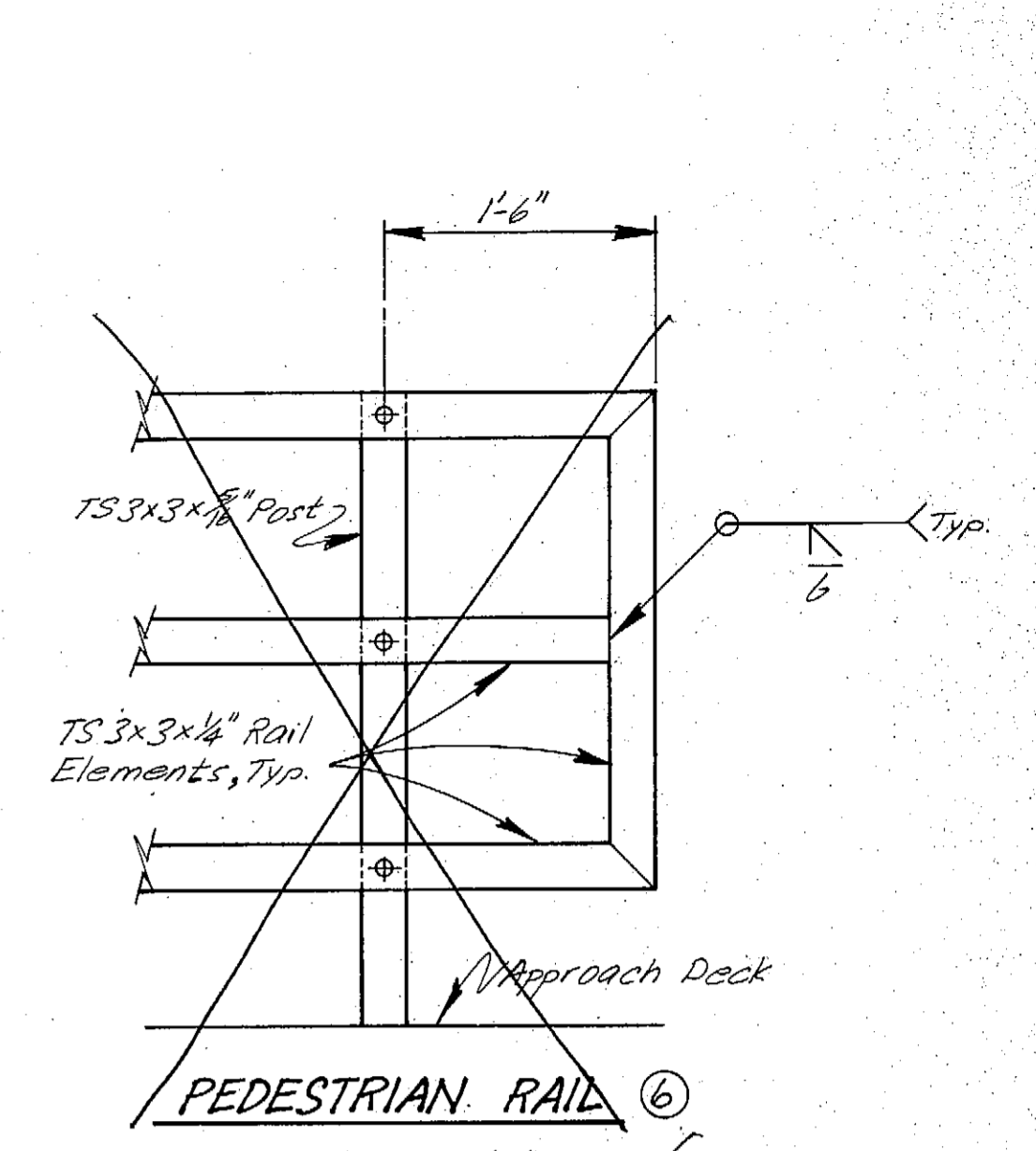
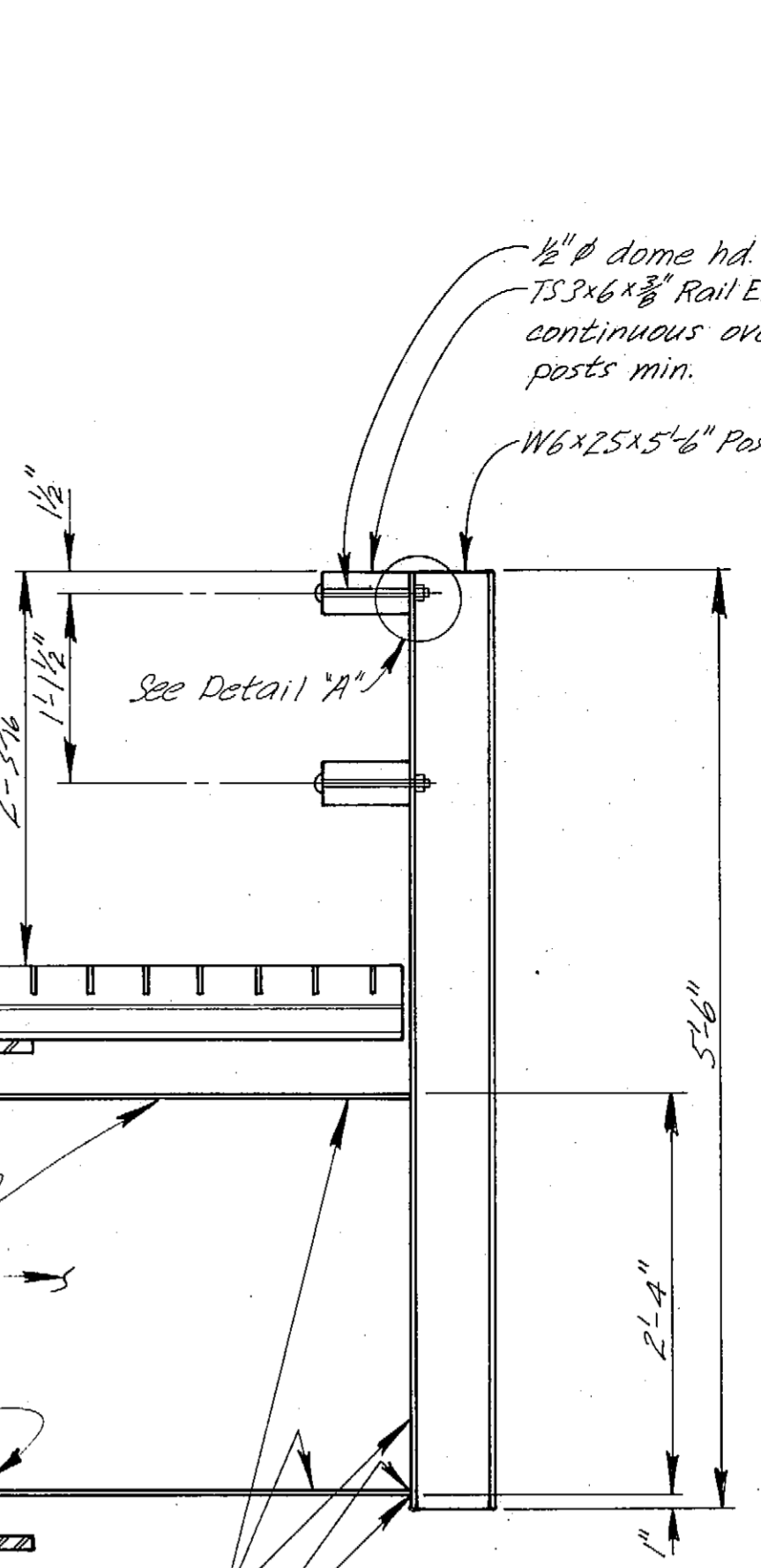
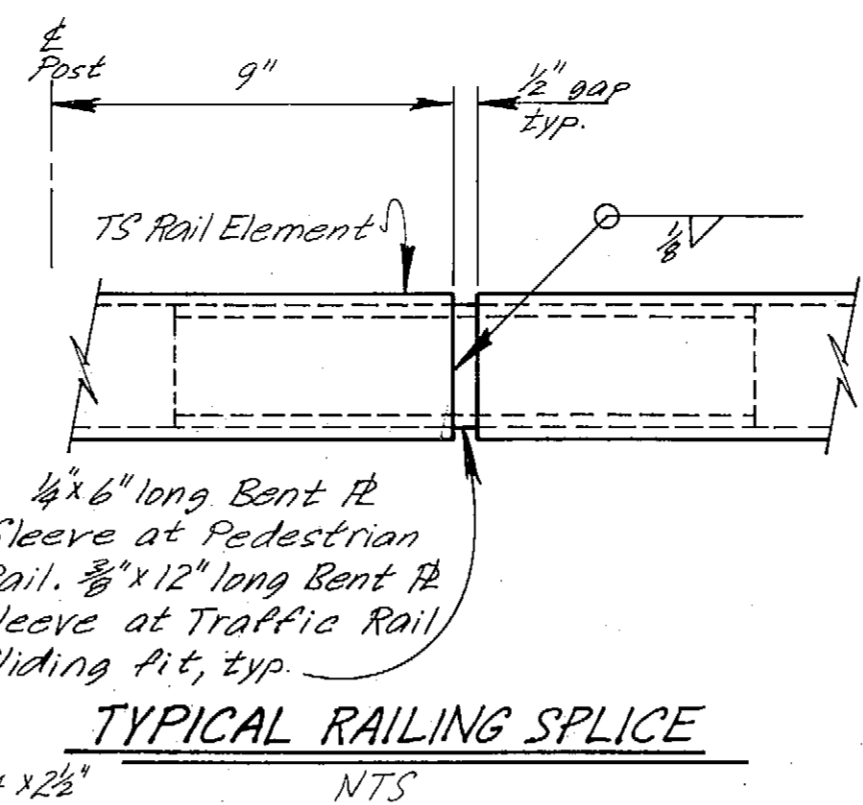
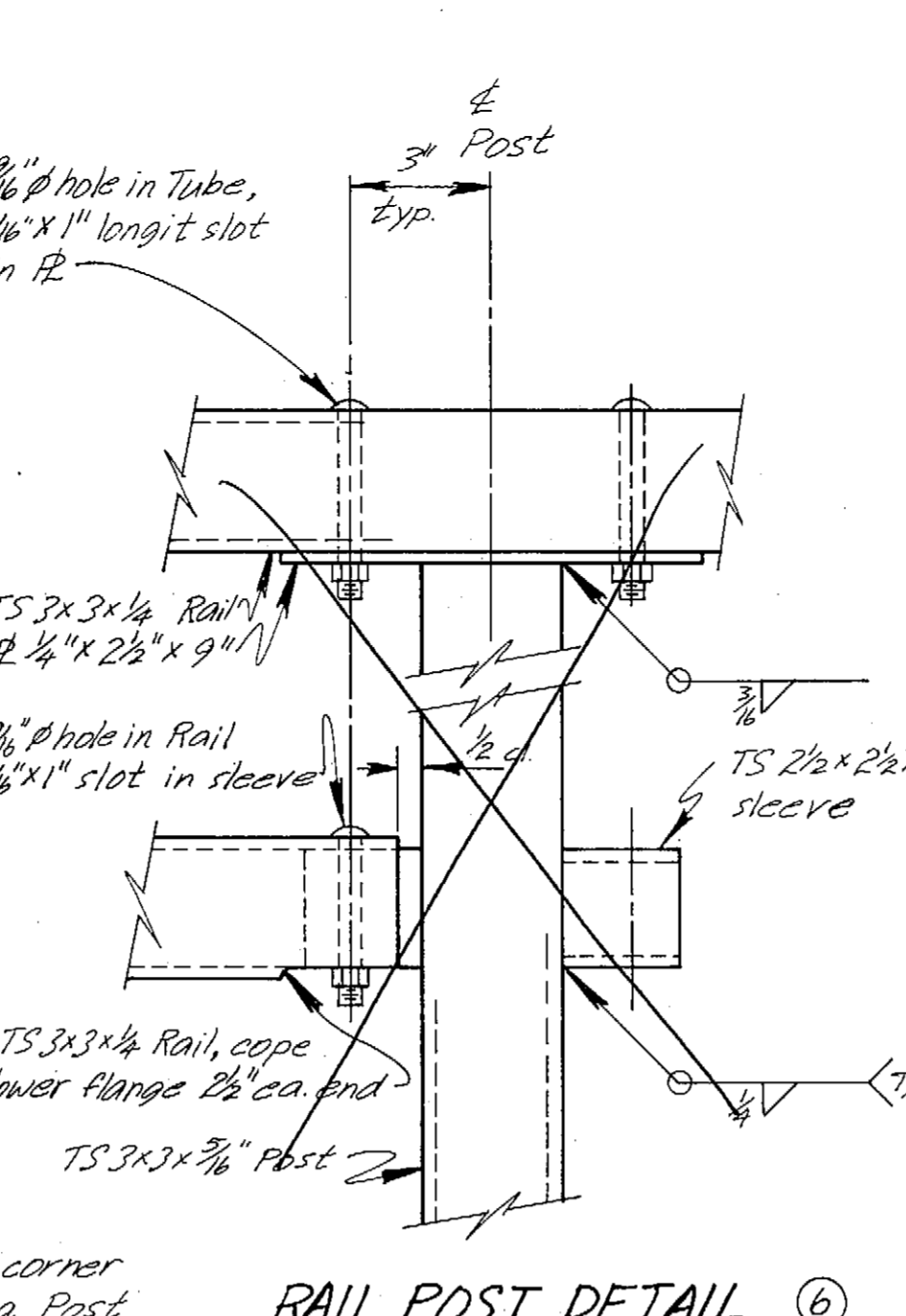
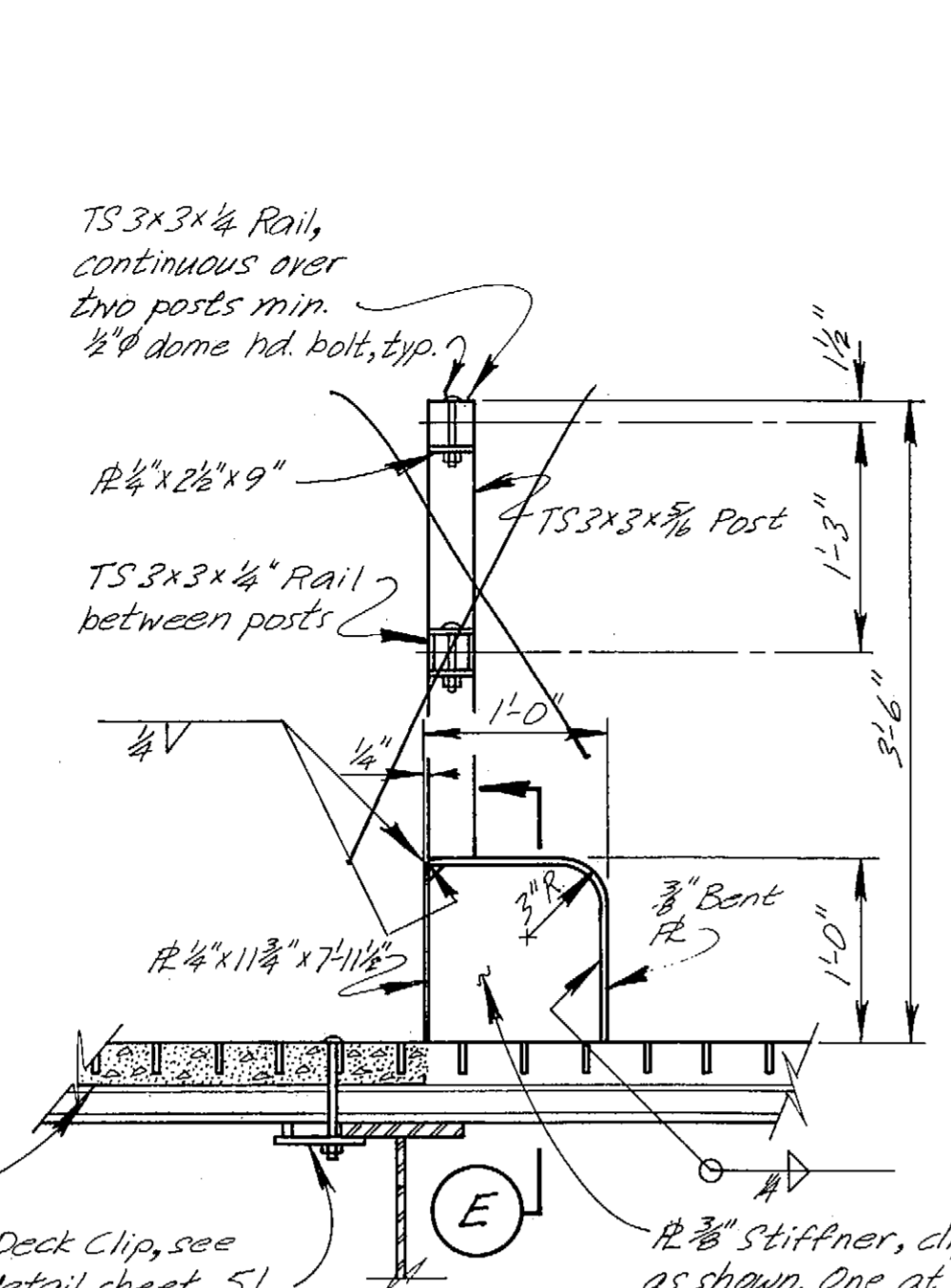
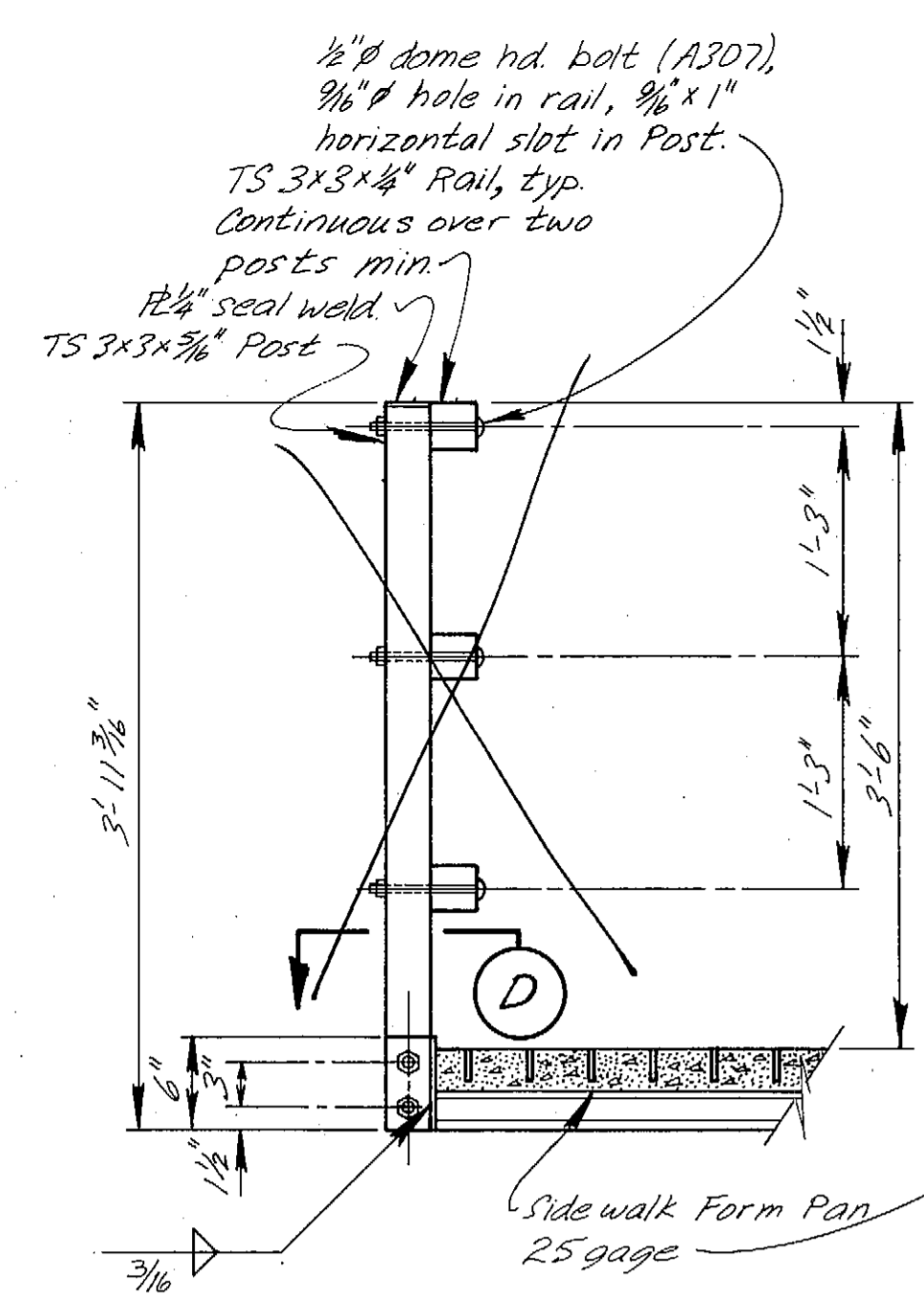
- Notes:  
 1. Approx. Total Wt. per cap Pier 5 & 6 2800 lbs (1530 lbs. A572, 1050 lbs. A36, 20 lbs. A325, ~ 200 lbs. weld)  
 2. Approx. Total Wt. Pier 4 cap 4050 lbs. (1760 lbs. A572, 2050 lbs. A36, 25 lbs. A325, ~ 215 lbs. weld)  
 3. Galv. after fabrication.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
<b>AS-BUILT</b> CONTINUOUS APPROACH PIER DETAILS			
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED VJS	DRAWN LWB		
CHECKED BS	DATE 2/18/84		
PROJECT NUMBER A38502		SHEET 44 OF 62	





STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
<b>A5-BUILT</b> <b>CONTINUOUS APPROACH</b> <b>FRAMING PLAN</b>			
SCALE: As Noted	SURVEYED	APPROVED	
DESIGNED: US	DRAWN: LVB		
CHECKED: BS	DATE: 1/84		
PROJECT NUMBER: A38502	SHEET: 45		OF: 62

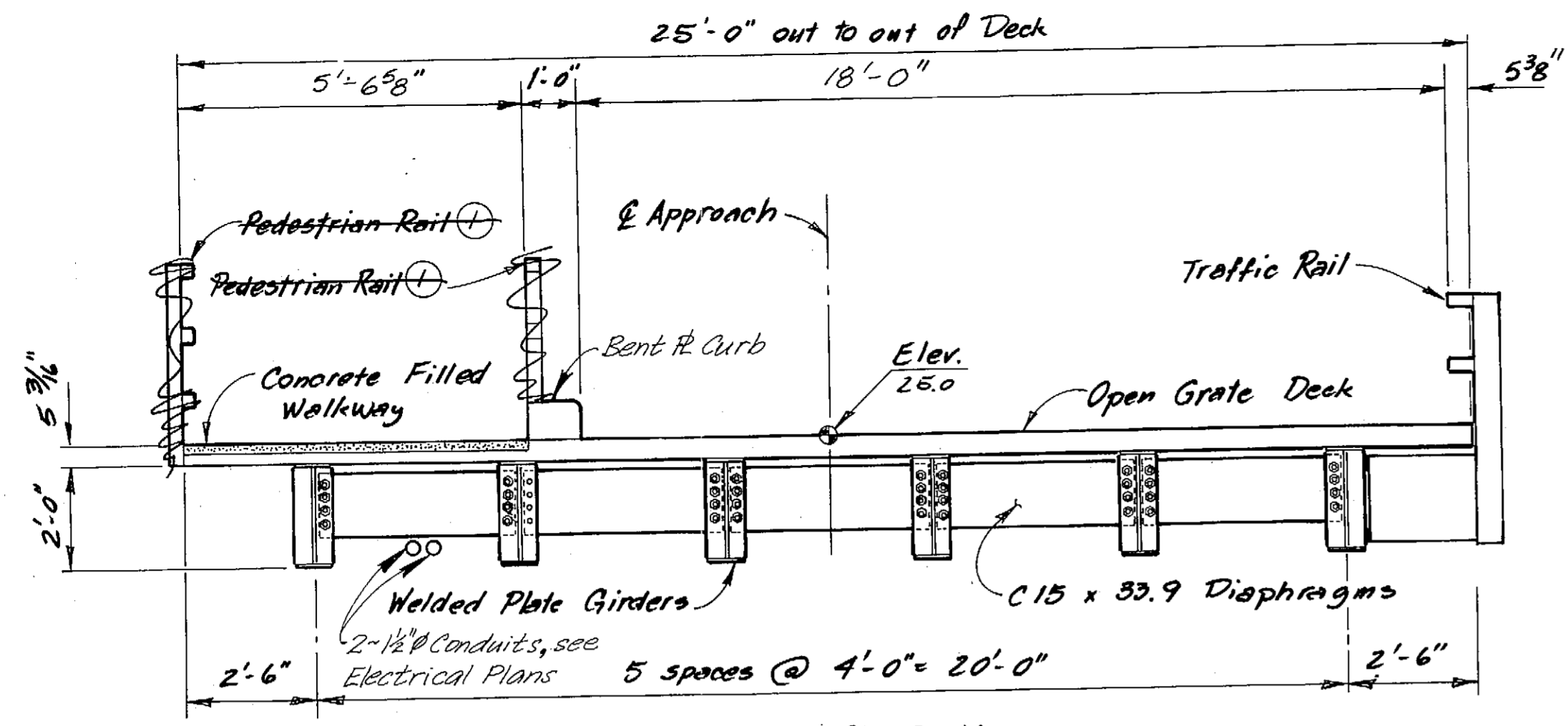


Relocated Gangway to Seaplane Float

RAILPOST & DECK PANEL LAYOUT

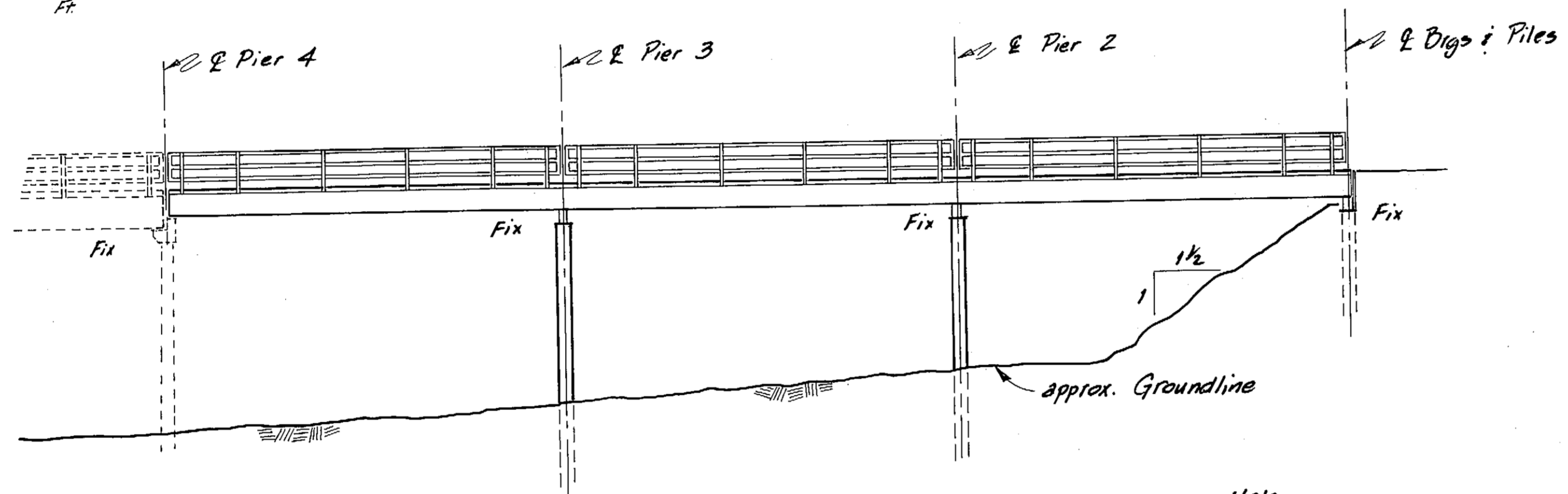
Notes:  
 1. Approx. Total Steel wt. Deck and Railing = 152,000 lbs, 22,000 lbs A500, 129,150 lbs A36, 500 lbs A307, ~350 lbs Weld  
 2. Approx 13% V. of Class A-A concrete.  
 3. Galvanize after fabrication  
 4. For Deck Details see also sheet 51  
 5. For Gangway Bracket see sheet 54  
 Alternate "A" shown this sheet, Alternate "B" awarded, see details sheet 60

<p><b>AS-BUILT</b></p> <p>DO NOT SCALE THIS DRAWING - USE DIMENSIONS</p> <p>STATE OF ALASKA                  DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p>Petersburg Alaska</p> <p style="text-align: center;"><b>CONTINUOUS APPROACH DECK                  AND RAILING DETAILS</b></p>		
<p>SCALE: As Noted</p> <p>DESIGNED: US</p> <p>CHECKED: BS</p>	<p>SURVEYED: LJB</p> <p>DATE: 3/84</p>	<p>APPROVED:</p> <p>PROJECT NUMBER: A38502</p> <p>SHEET 46 OF 62</p>



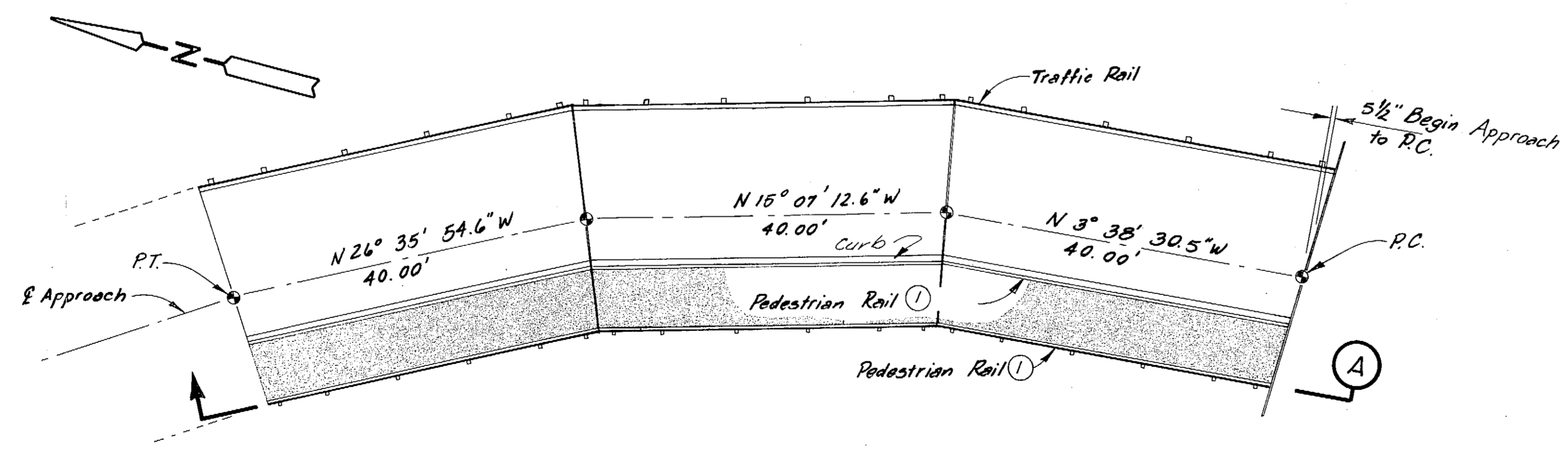
TYPICAL SECTION

(Looking Seaward)  
3/8" = 1'-0"  
1 2 3 4  
10 Ft



VIEW A

Note:  
For Approach Geometrics  
See Sht. 48

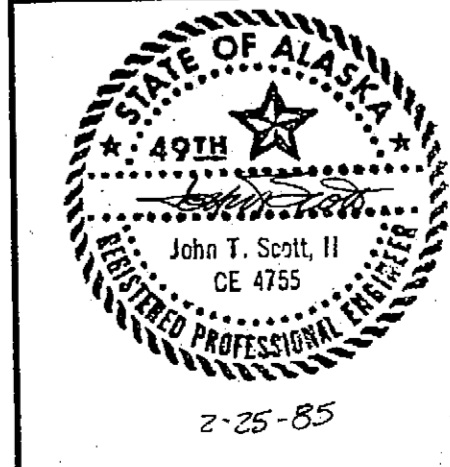


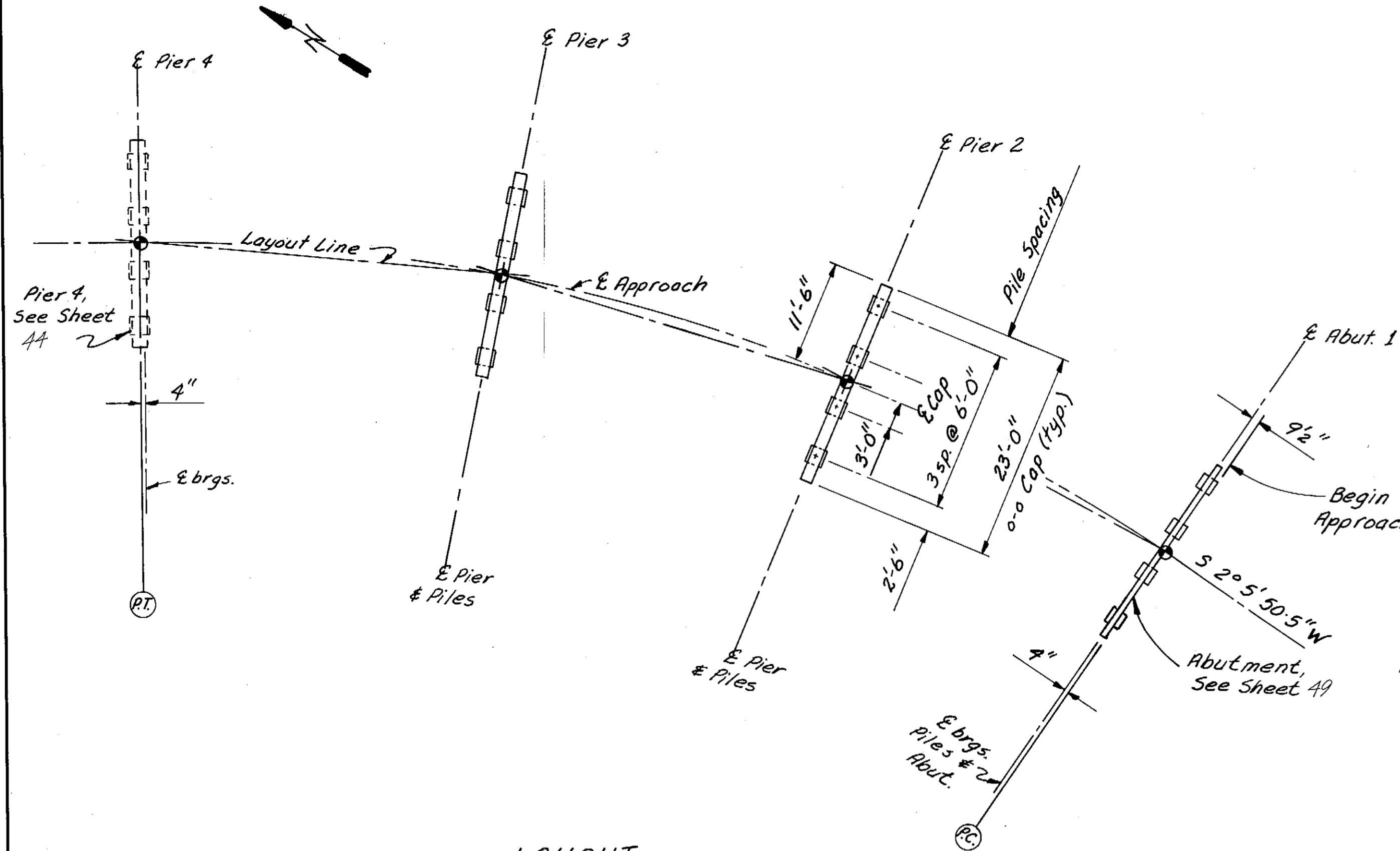
PLAN

3/32" = 1'-0"  
0 5 10 15 20  
Ft.

① Note: Alternate "A" shown this sheet, but Alternate "B" was ~~the~~ built, see details sheet 60

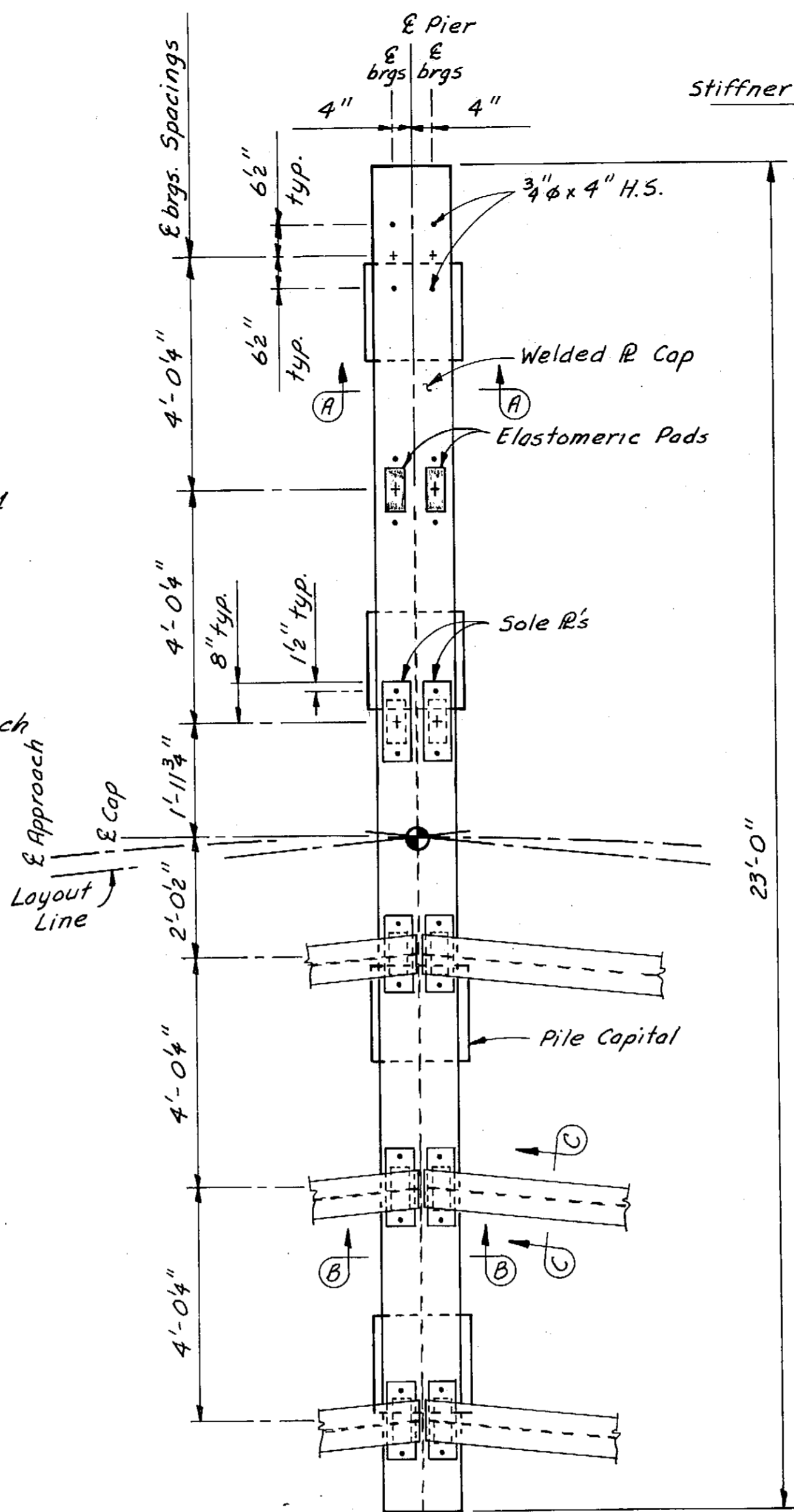
AS-BUILT		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
Petersburg		Alaska
CURVED APPROACH LAYOUT		
SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: JS	DRAWN: DB	
CHECKED: BS	DATE: 1-84	
PROJECT NUMBER: A38502	SHEET 47 OF 62	



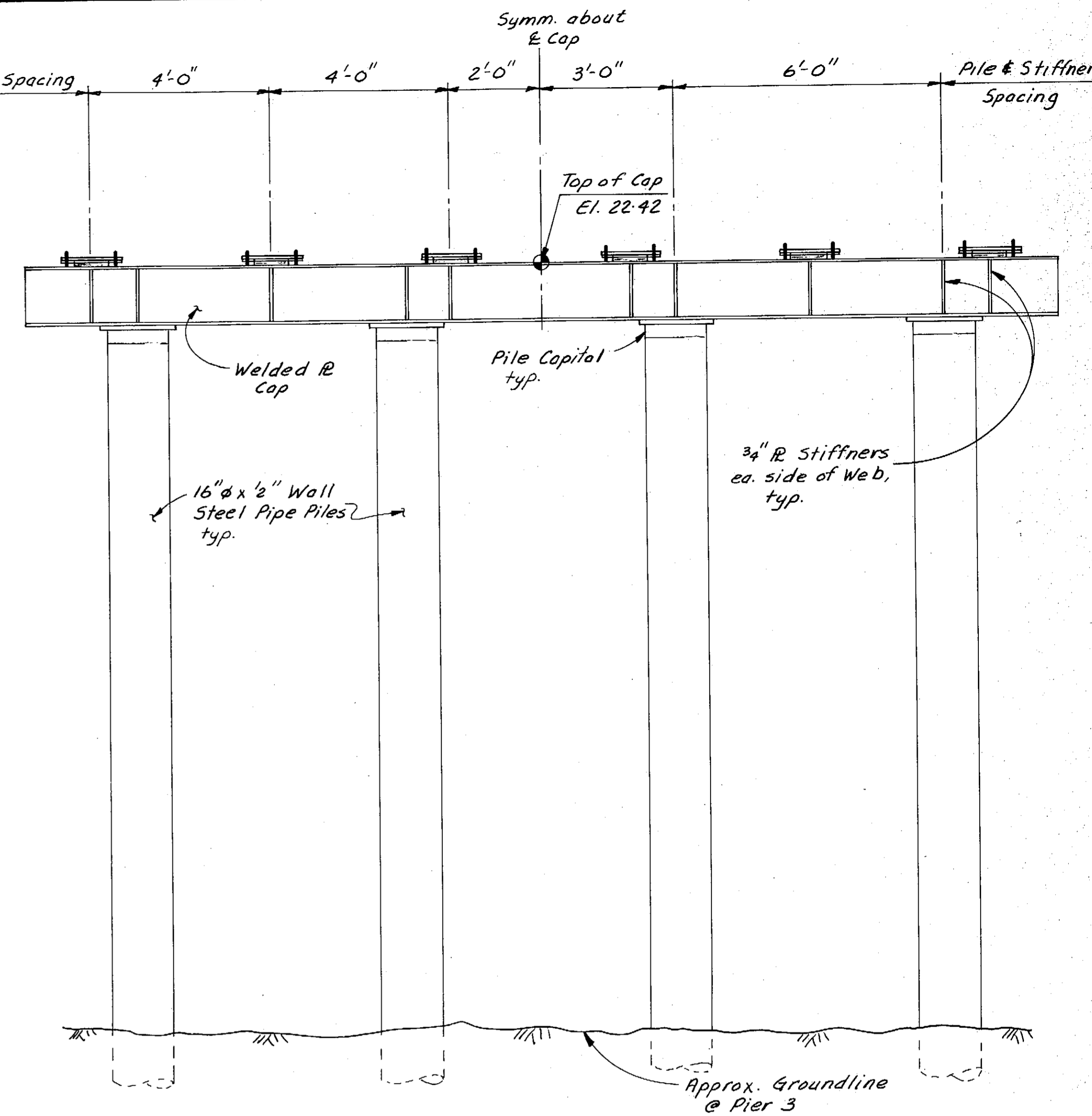


LAYOUT  
(No Scale)

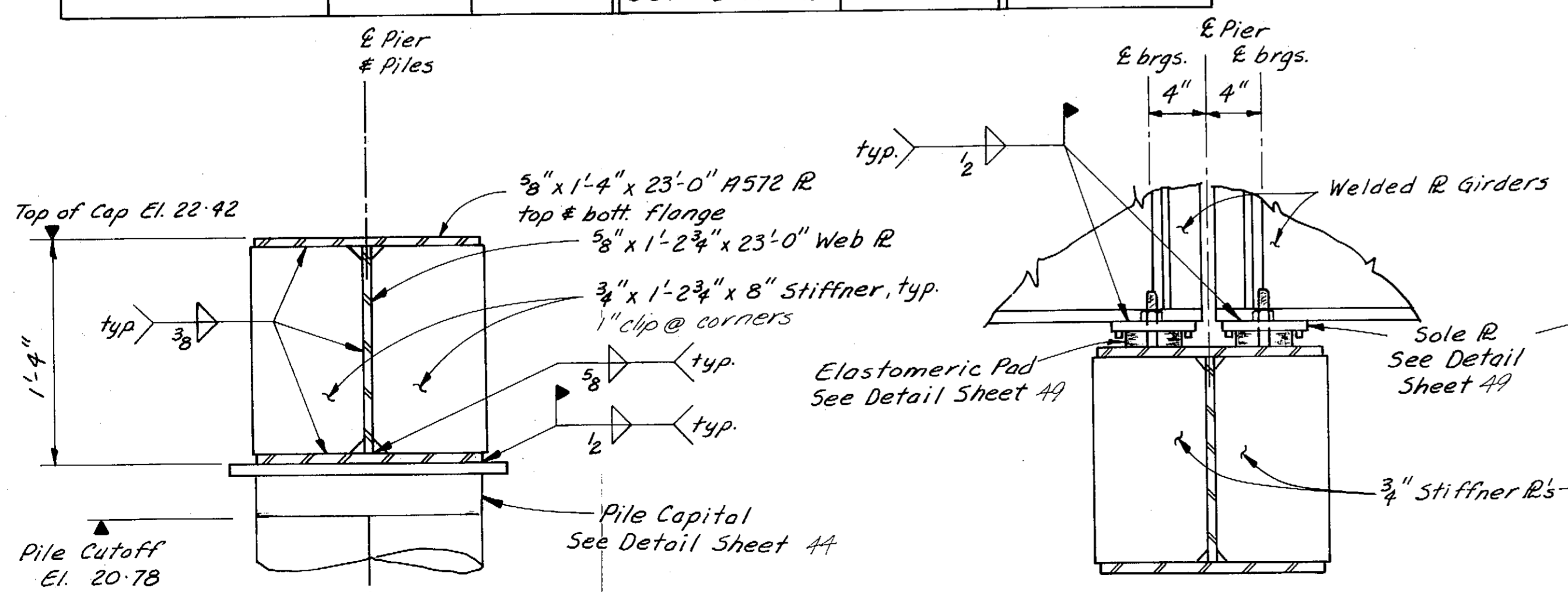
GEOMETRIC DATA					
Description	N	E	Layout Line Bearing	Layout Line Distance	Point to Point
R.C.	7547.925	11289.549	S 3° 38' 30.5" E	40.00	R.C. to E Pier 2
E Abut. # E App.	7548.258	11289.532	S 15° 07' 12.6" E	40.00	E Pier 2 to E Pier 3
E Pier 2 # E App.	7587.844	11287.008	S 26° 35' 54.6" E	40.00	E Pier 3 to E Pier 4
E Pier 3 # E App.	7626.459	11276.574			
E Pier 4 # P.T.	7662.226	11258.665			
Curve Rad. Point	7555.244	11089.683	S 87° 54' 09.5" E	Abut.	Δ = 34° 26' 06.1"
			S 80° 37' 08.5" W	Pier 2	L = 120.20'
			S 69° 08' 26.4" W	Pier 3	A = 200.00'



PIER 2 & 3 PLAN

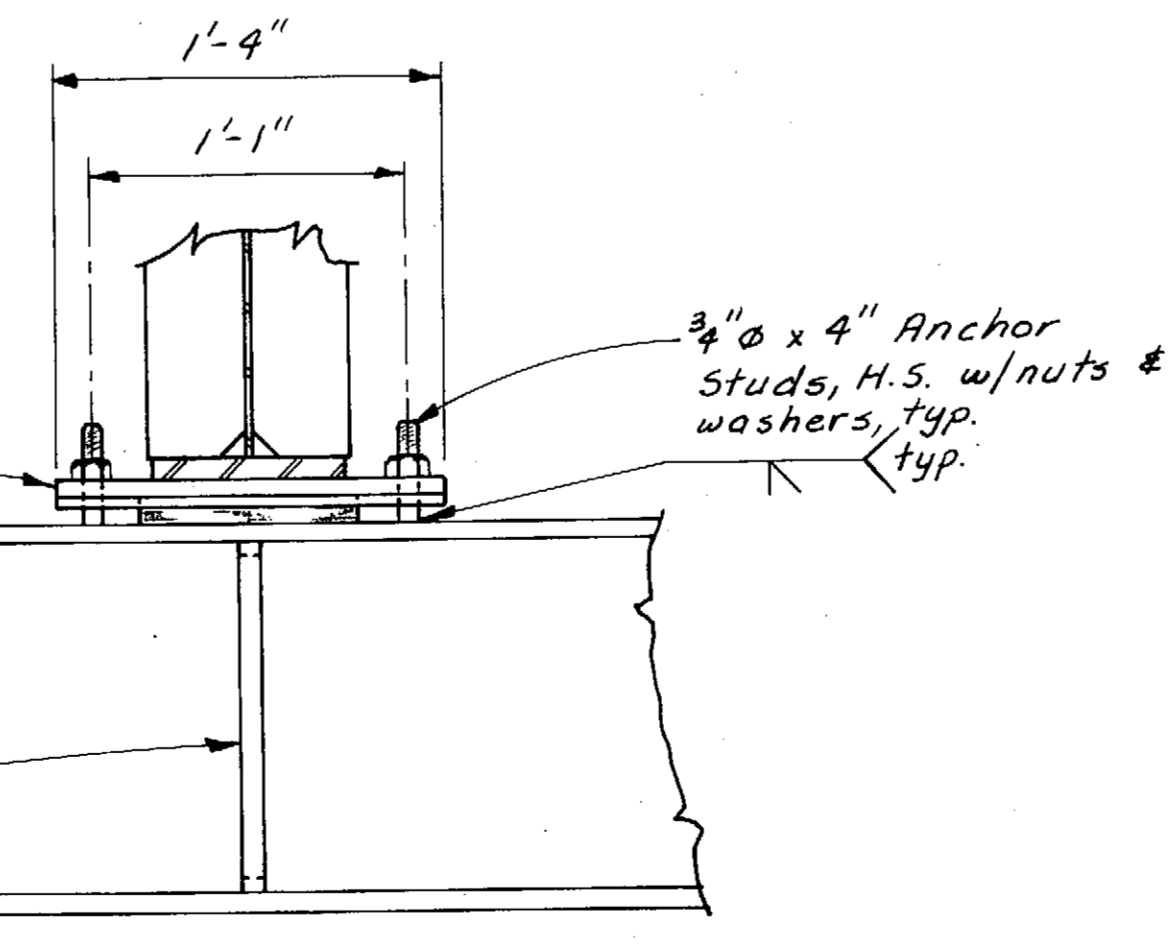


ELEVATION



SECTION A-A  
(No Scale)

SECTION B-B  
(No Scale)



SECTION C-C  
(No Scale)

Note:  
1. Approx. Total Wt. per Cap @ Pier 2 & 3 ~ 2950# (1565 lb. A572, 1225 lb. A36, 15 lb. A325, ~ 145 lb. weld)  
2. Galv. after fabrication.

AS-BUILT STAMP

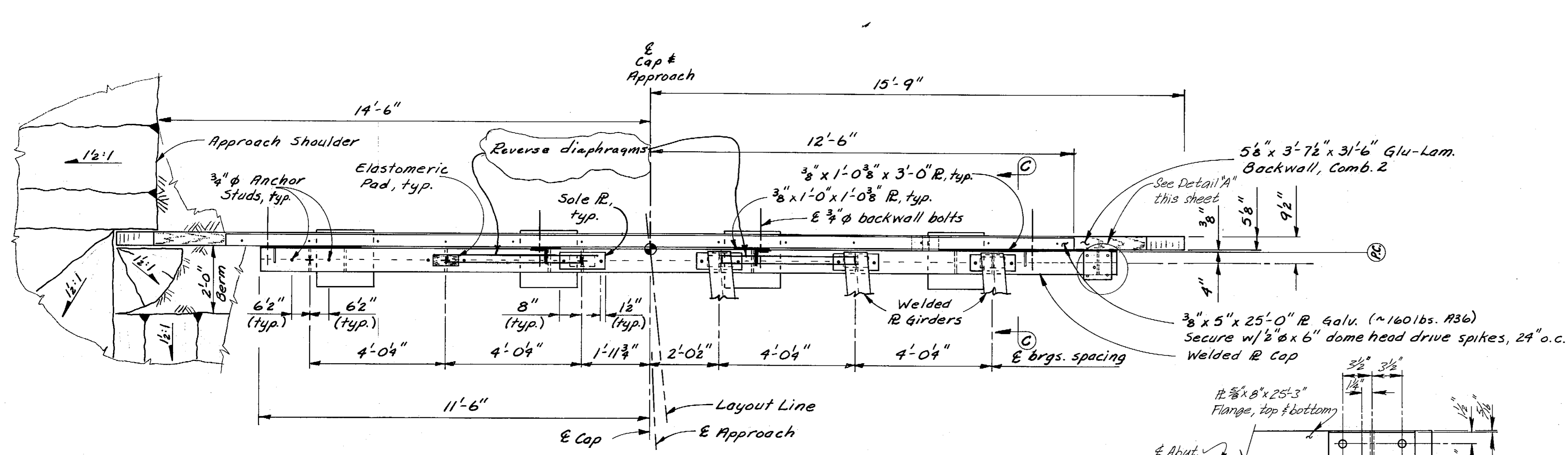
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

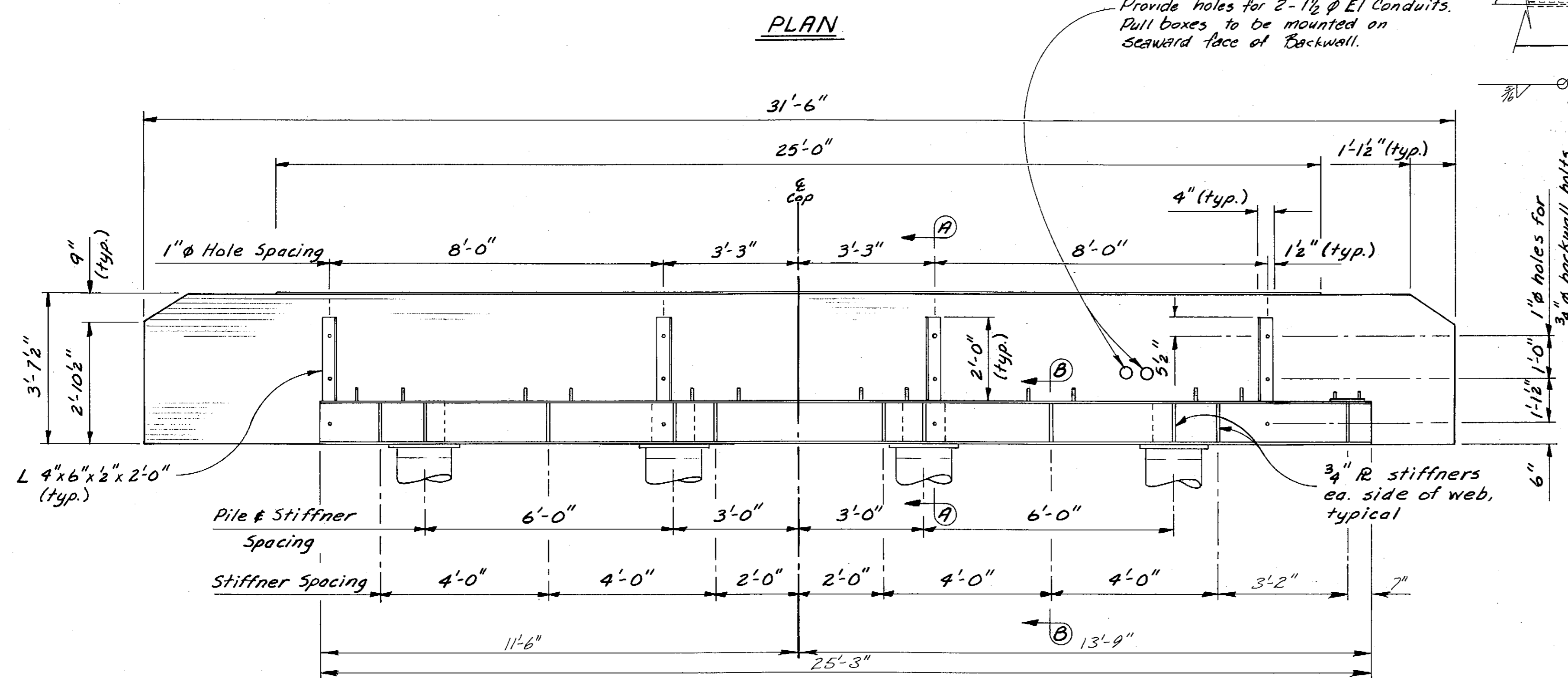
CURVED APPROACH - PIERS  
AND SUBSTRUCTURE LAYOUT

SCALE As Noted SURVEYED \_\_\_\_\_ APPROVED \_\_\_\_\_  
DESIGNED BS DRAWN BS DATE 1-84  
CHECKED BS  
PROJECT NUMBER A38502 SHEET 48 OF 62

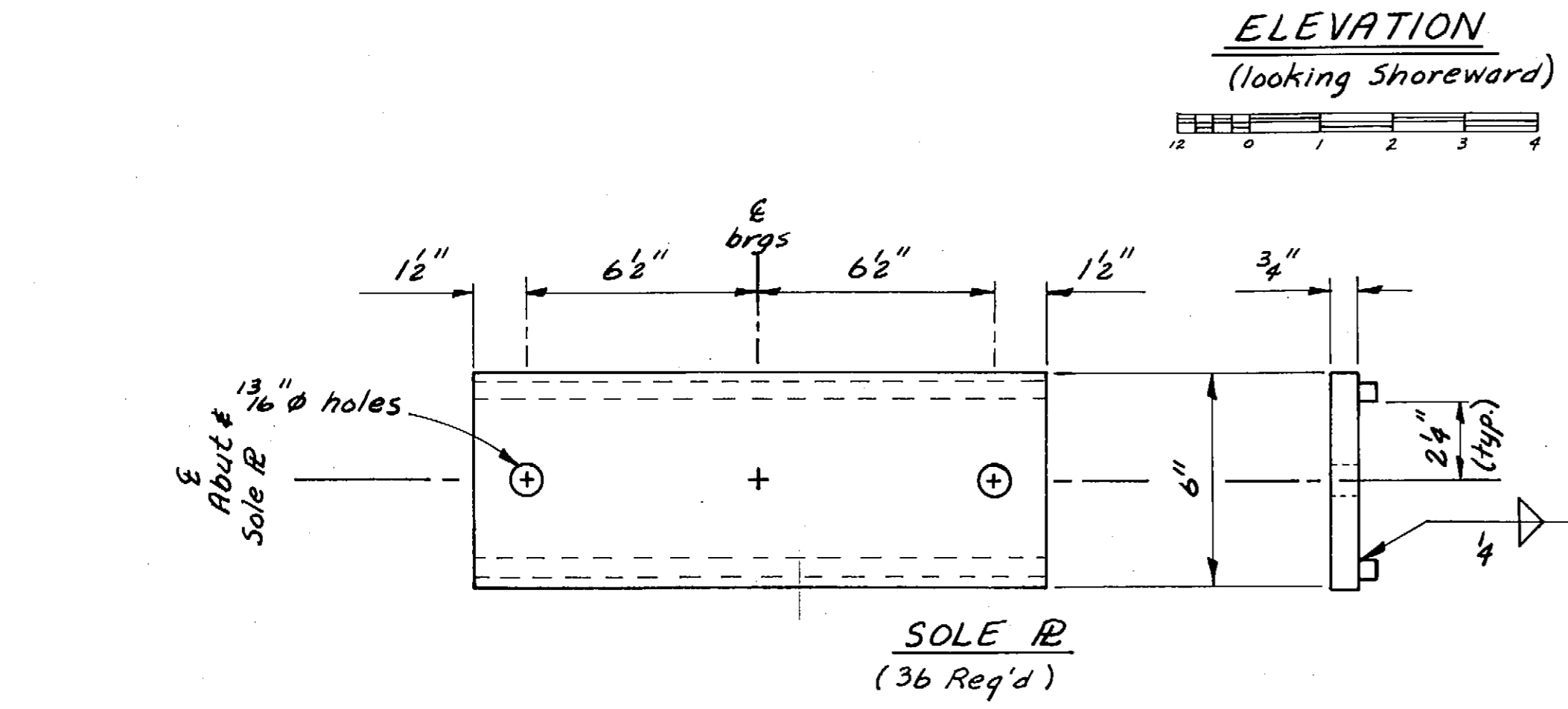
John T. Scott, II  
CE 4755  
2-25-85



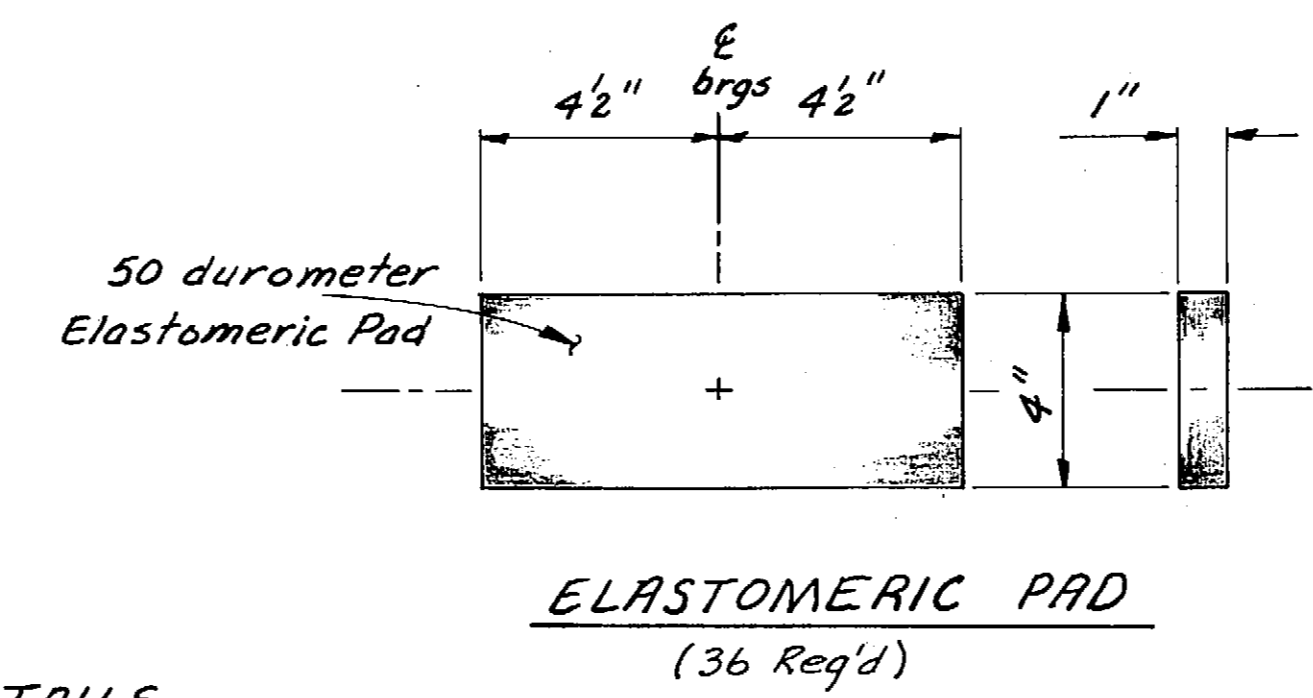
**PLAN**



**ELEVATION**  
(looking Shoreward)

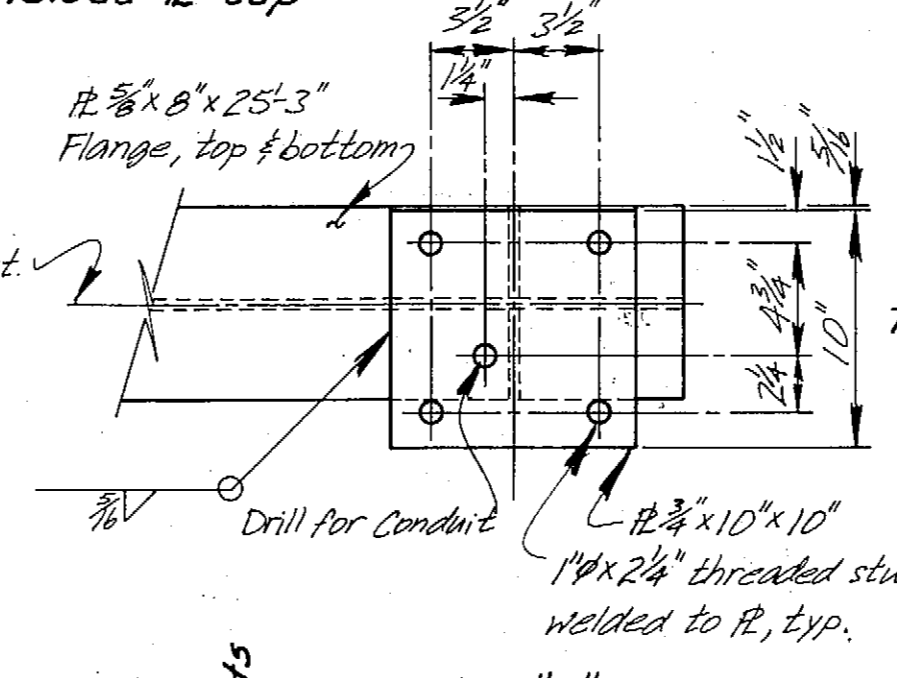


**SOLE R**  
(36 Req'd)

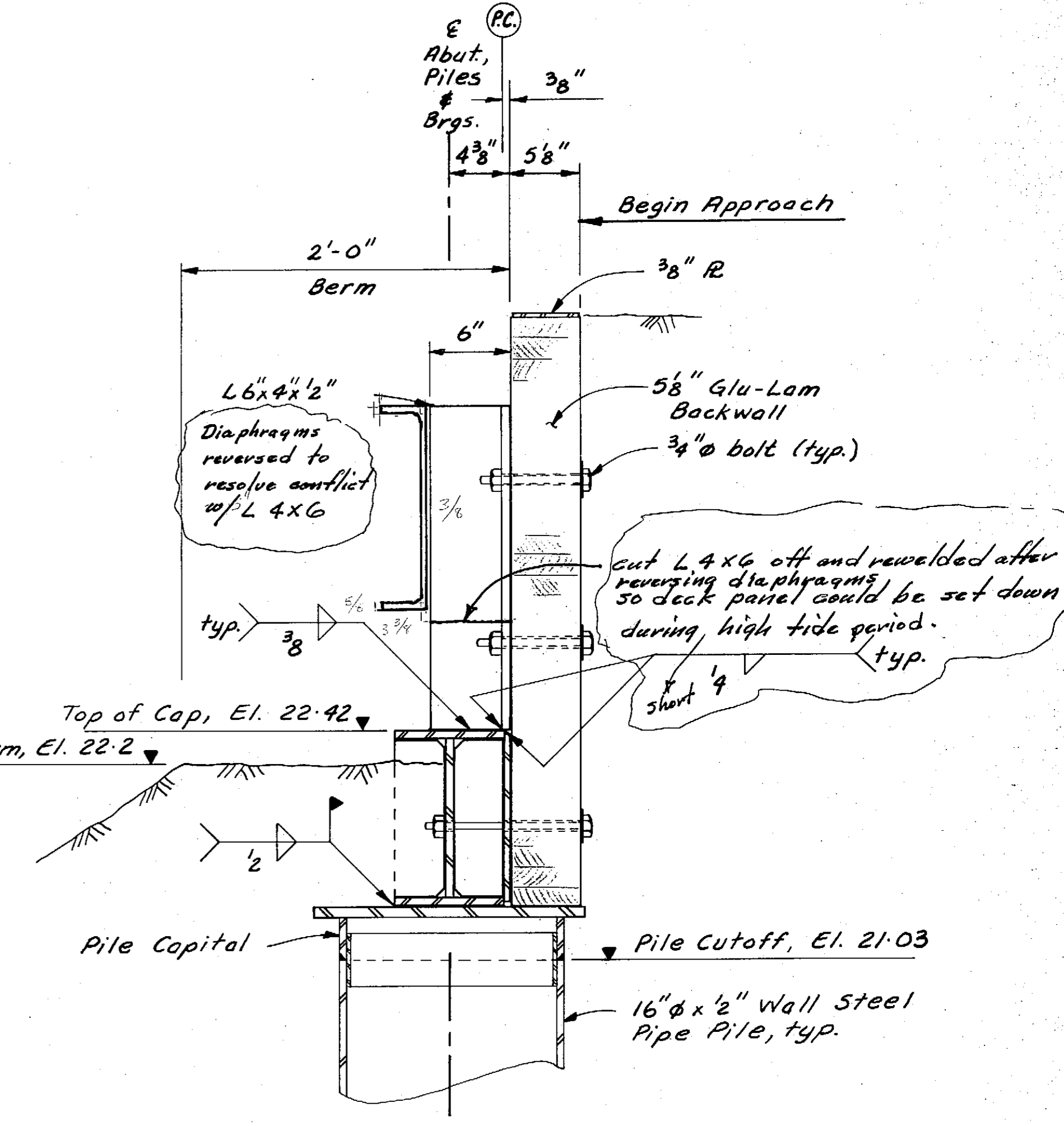


**ELASTOMERIC PAD**  
(36 Req'd)

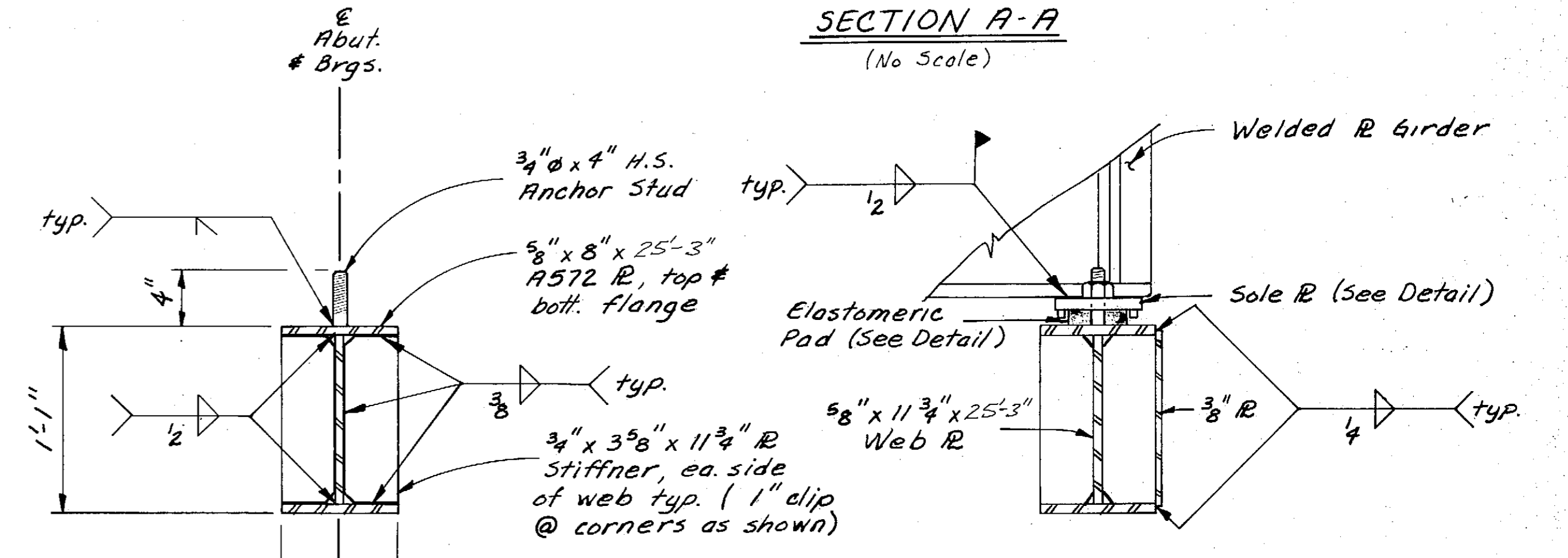
**BEARING DETAILS**  
(No Scale)



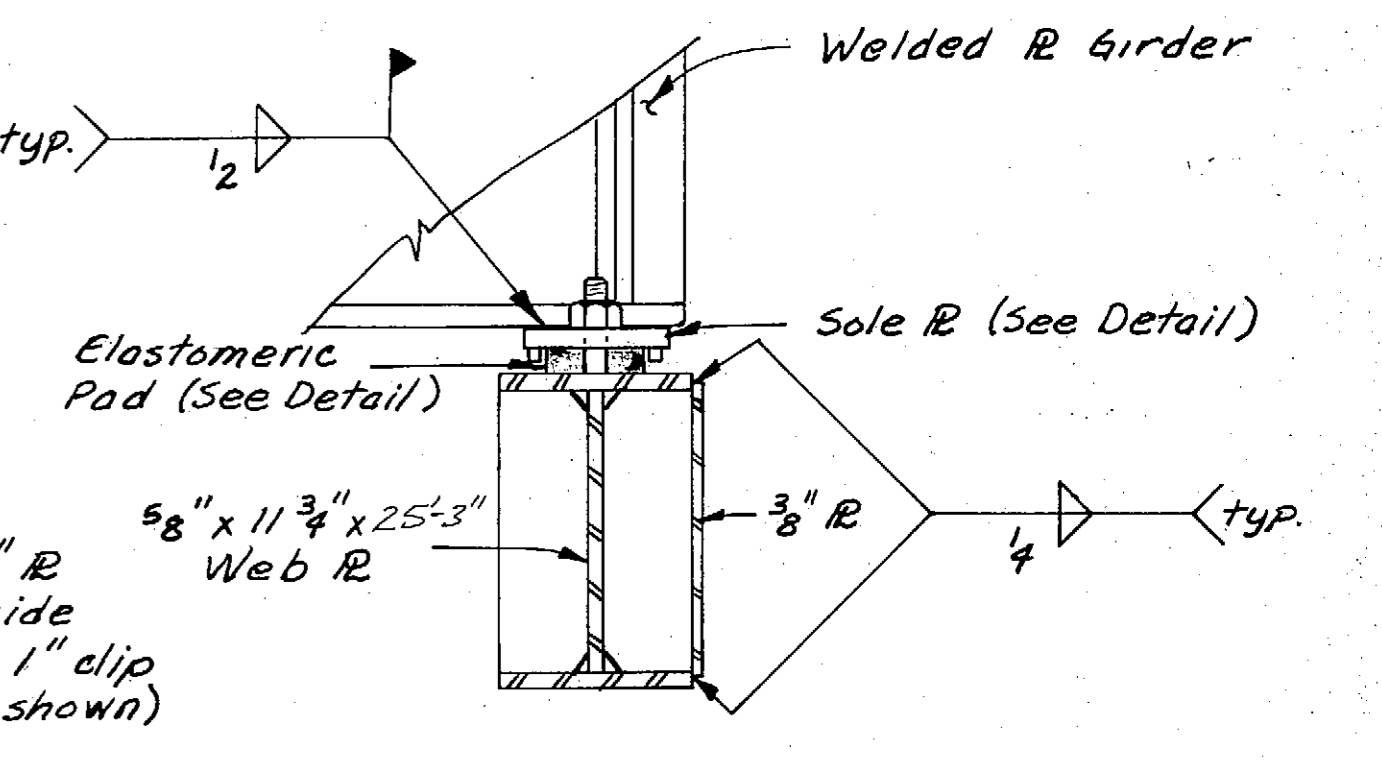
**DETAIL 'A'**  
N.T.S.



**SECTION A-A**  
(No Scale)



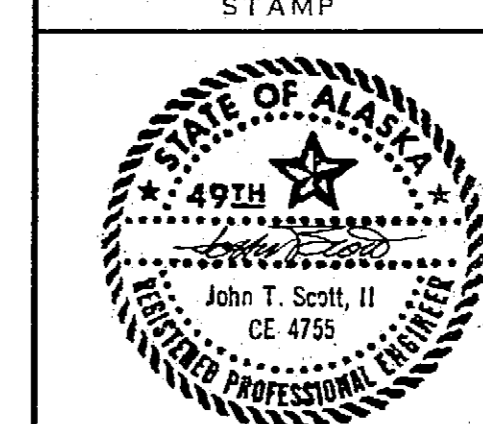
**SECTION B-B**  
(No Scale)



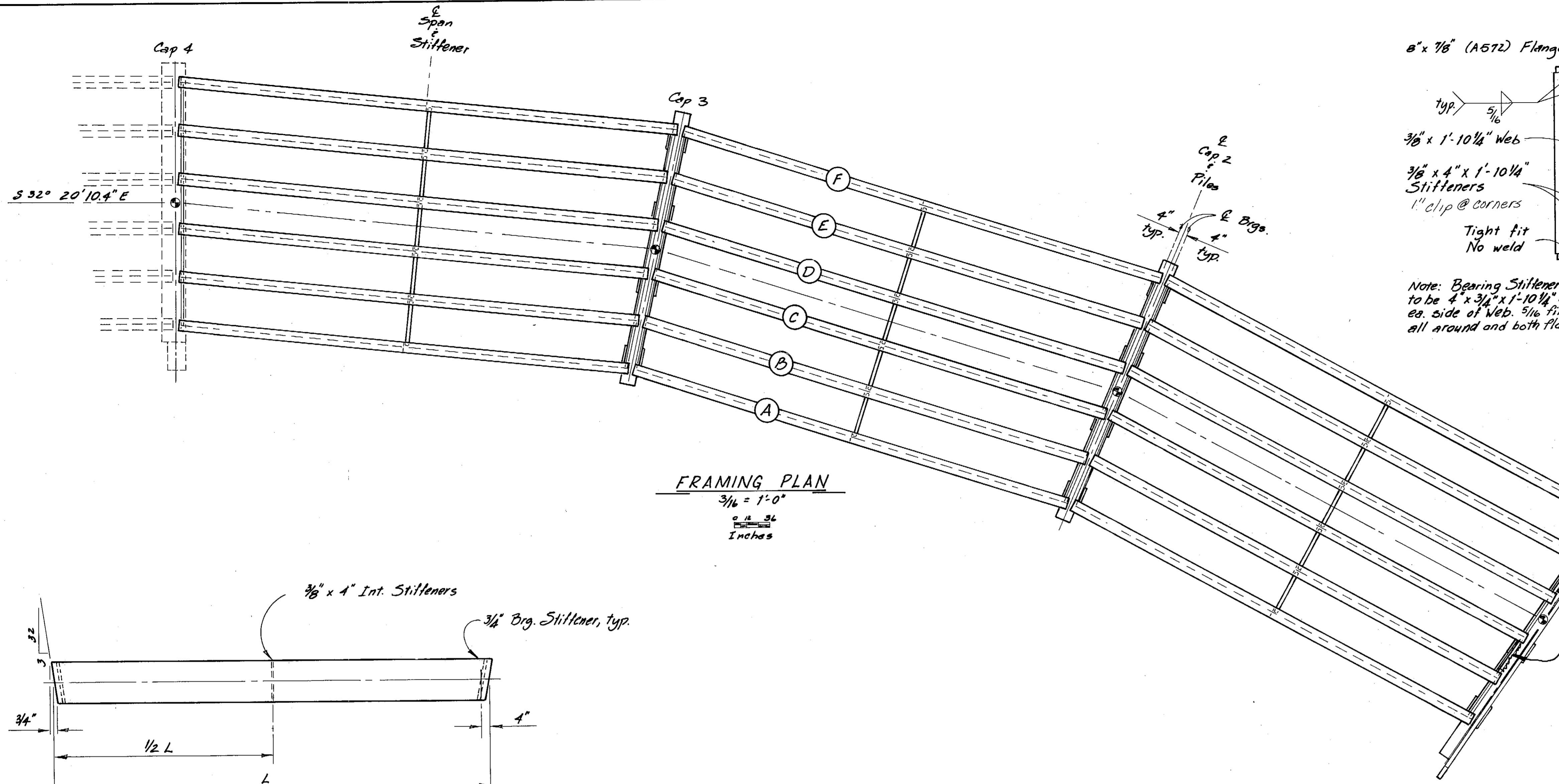
**SECTION C-C**  
(No Scale)

Note:  
 1. Approx. Total Wt. Abutment Cap ~ 1880# (785 lb. A572, 1015 lb. A36, 81 lb. A325, ~ 72 lb. weld)  
 2. Approx. Total Wt. per Sole R ~ 24 lb. A36  
 3. Galv. after fabrication

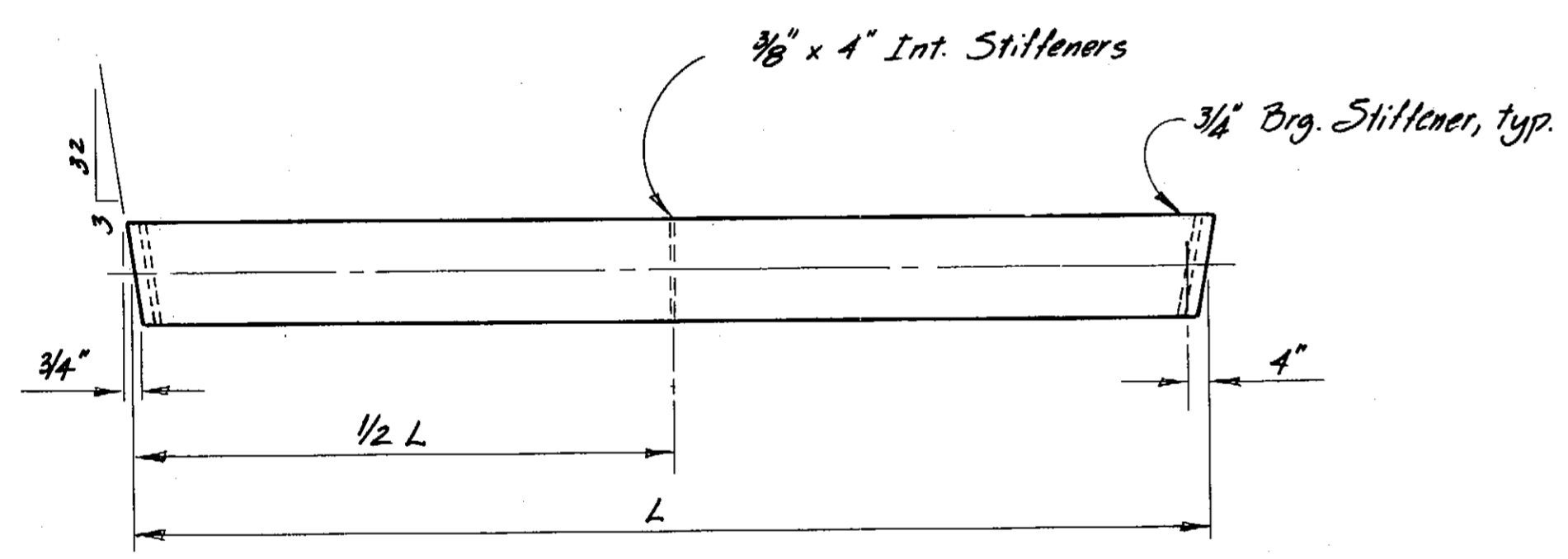
**AS-BUILT**



DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
<b>CURVED APPROACH-ABUTMENT AND BEARING DETAILS</b>		
SCALE: As Noted	SURVEYED: <i>JS</i>	APPROVED:
DESIGNED: <i>JS</i>	DRAWN: <i>JS</i>	
CHECKED: <i>BS</i>	DATE: 1-84	
PROJECT NUMBER: A38502	SHEET 49 OF 62	



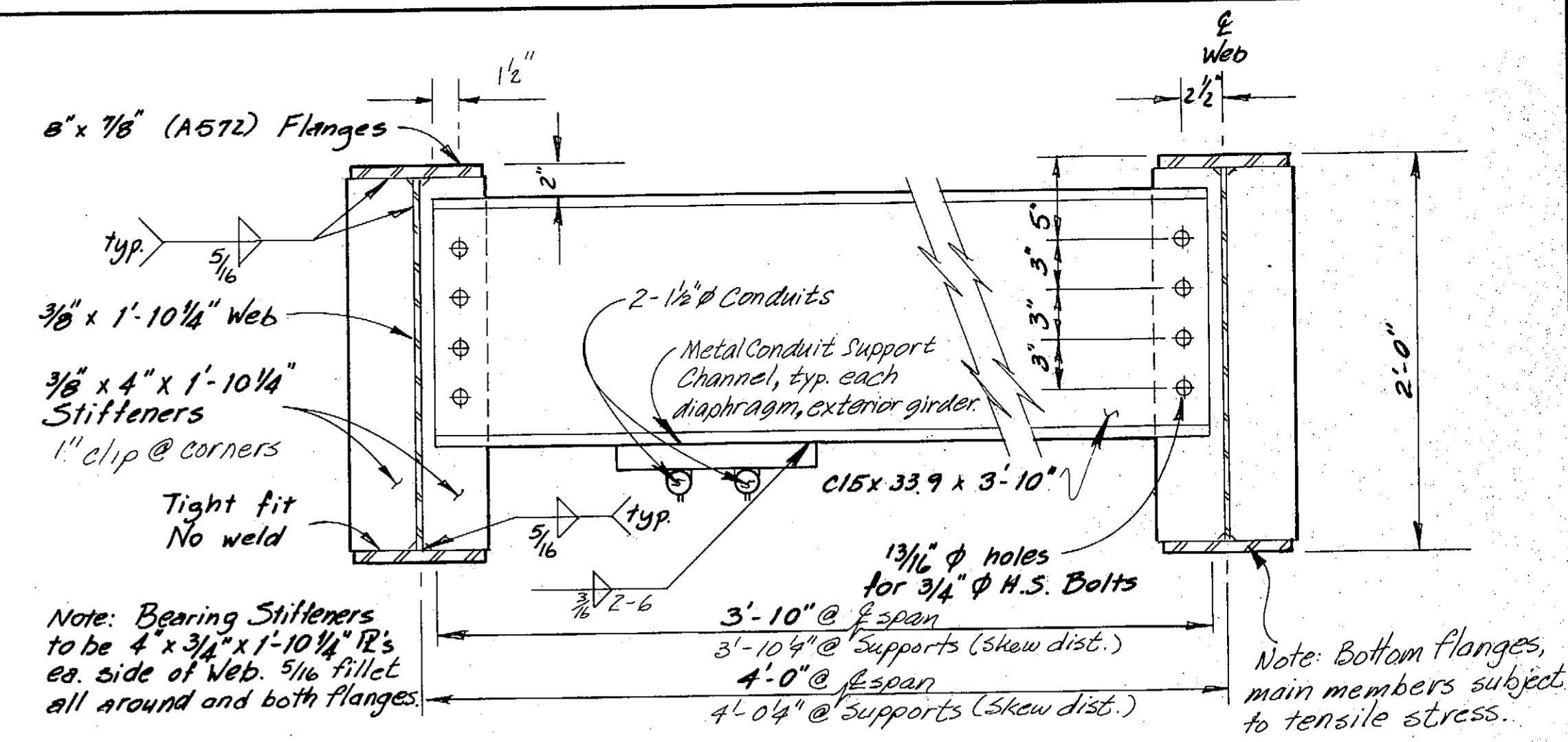
**FRAMING PLAN**  
3/16" = 1'-0"  
0 12 36  
Inches



	L	1/2 L
(A)	37'-11 1/2"	18'-11 3/4"
(B)	38'-9"	19'-4 1/2"
(C)	39'-6 3/4"	19'-9 3/8"
(D)	40'-4 1/4"	20'-2 1/8"
(E)	41'-1 3/4"	20'-6 7/8"
(F)	41'-11 1/2"	20'-11 3/4"

**GIRDER SCHEDULE**  
NTS

Note: No Camber Req'd.



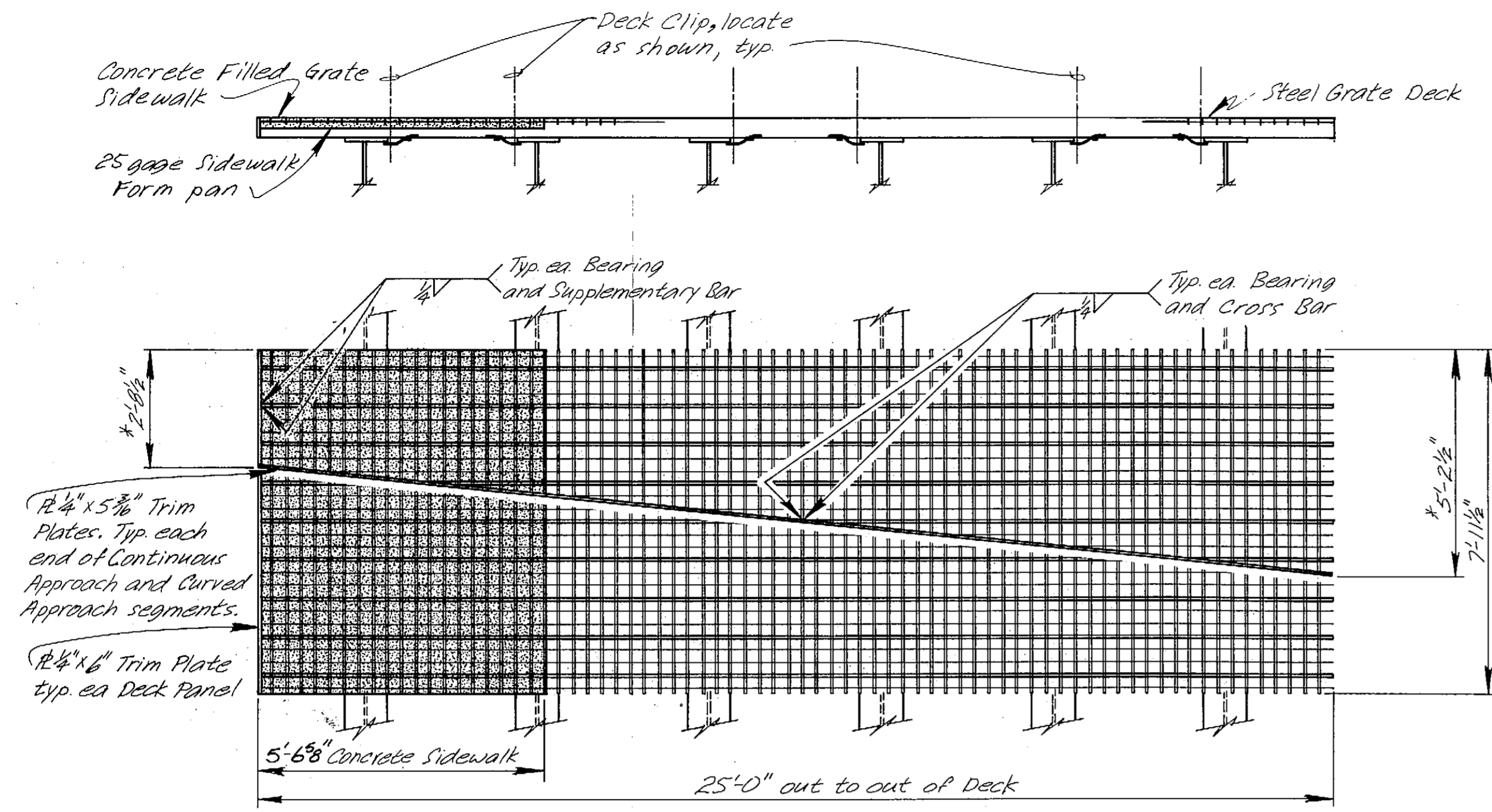
**STIFFENER & DIAPHRAGM DETAIL**  
1 1/2" = 1'-0"

Diaphragms reversed to avoid L's

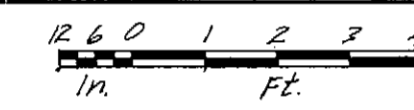
- Notes:
1. Approx. total Wt. of superstructure w/o deck and railings = 63,700 lbs. (34,235 lbs A572, 28,665 lbs. A36, ~600 lbs. weld, 200 lbs. A325)
  2. Galv. after fabrication.
  3. Holes required for traffic rail post brackets in web of girder F, typ. ea. segment, See Sheet 51.

As-Built

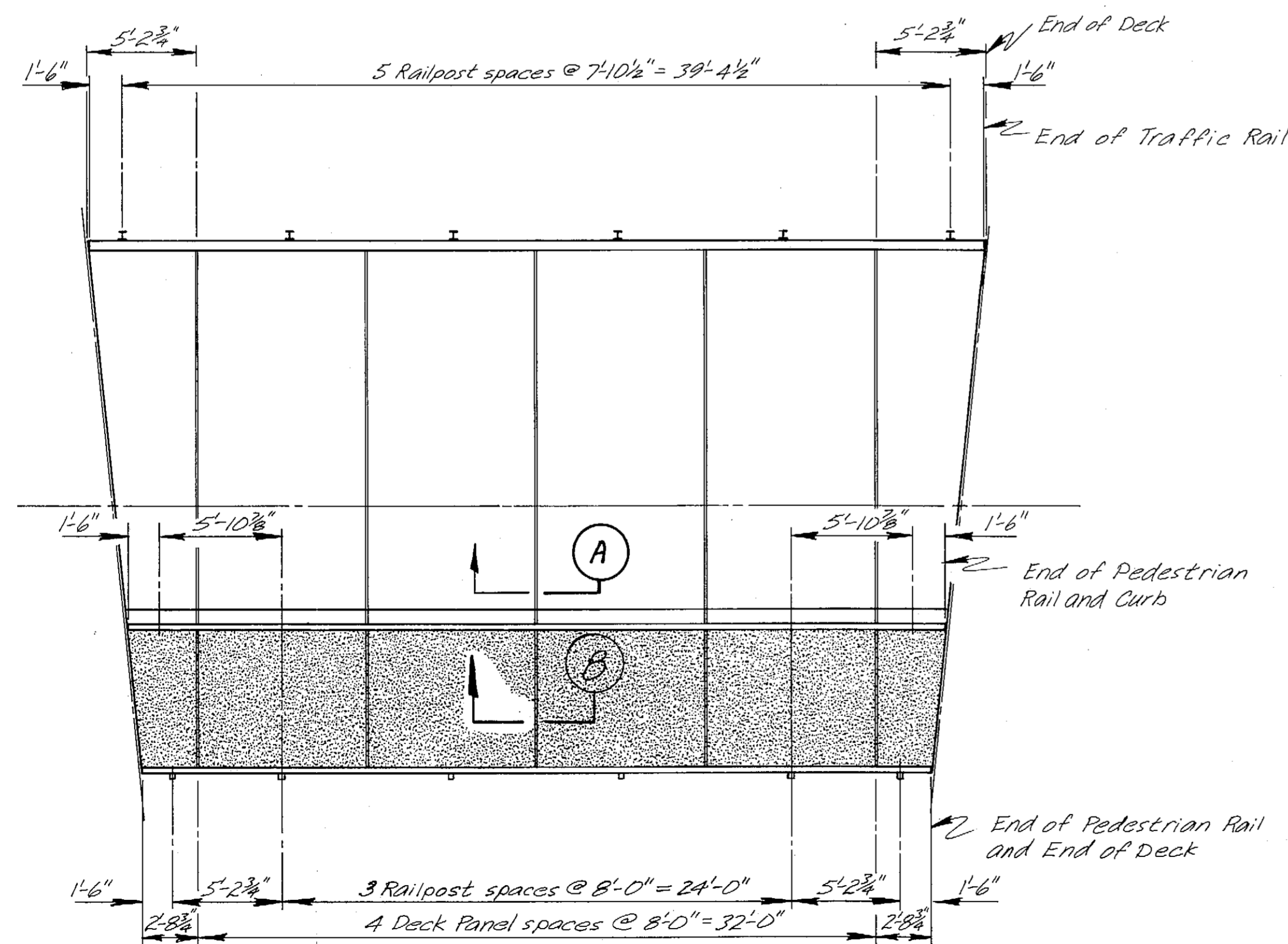
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
	Petersburg	Alaska
<b>CURVED APPROACH FRAMING PLAN</b>		
SCALE: As Noted	SURVEYED: _____	APPROVED: _____
DESIGNED: VS	DRAWN: DB	
CHECKED: #6	DATE: 1-84	
PROJECT NUMBER: A38502	SHEET 50 OF 62	



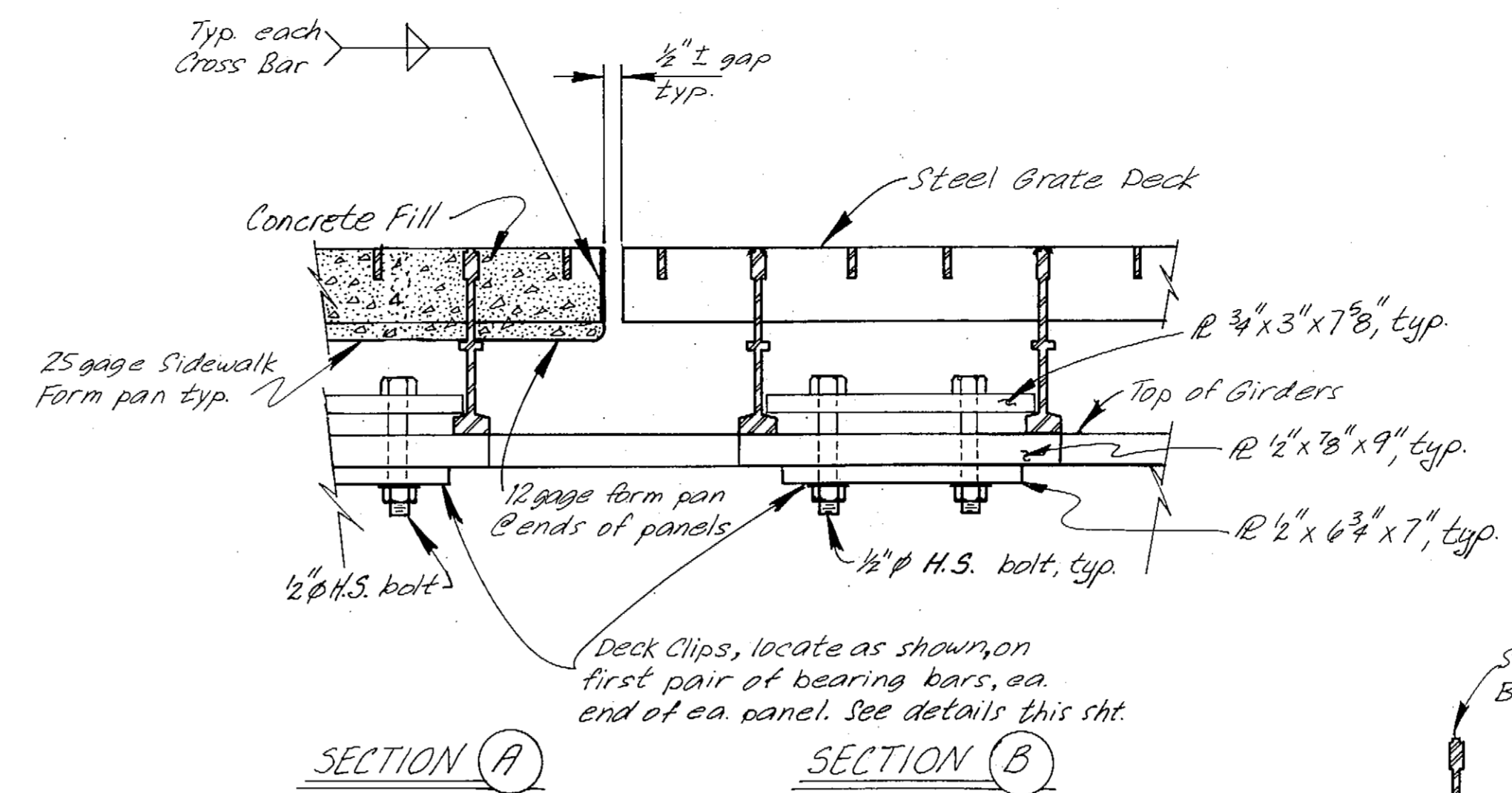
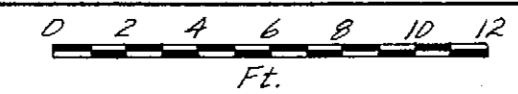
TYPICAL STEEL GRATE DECK PANELS



\*End panel of curved approach segment.

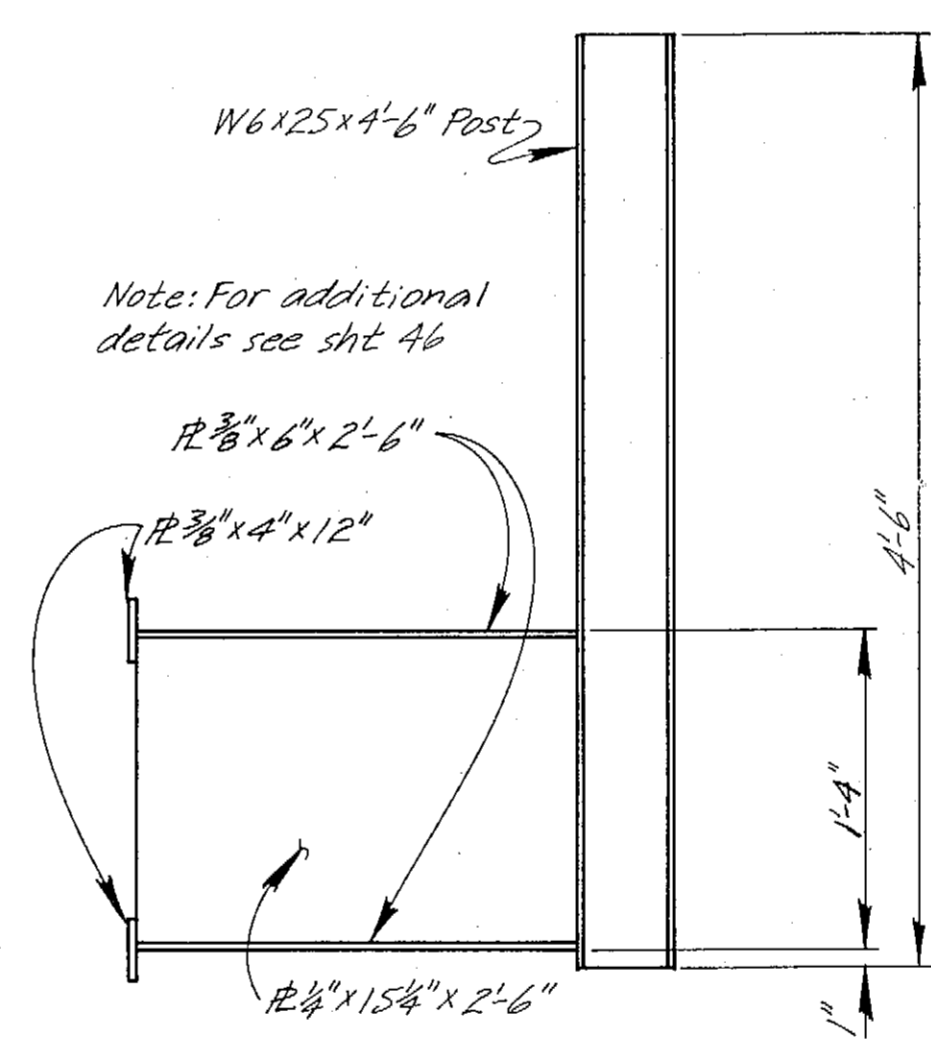


RAILPOST & DECK PANEL LAYOUT



SECTION (A)

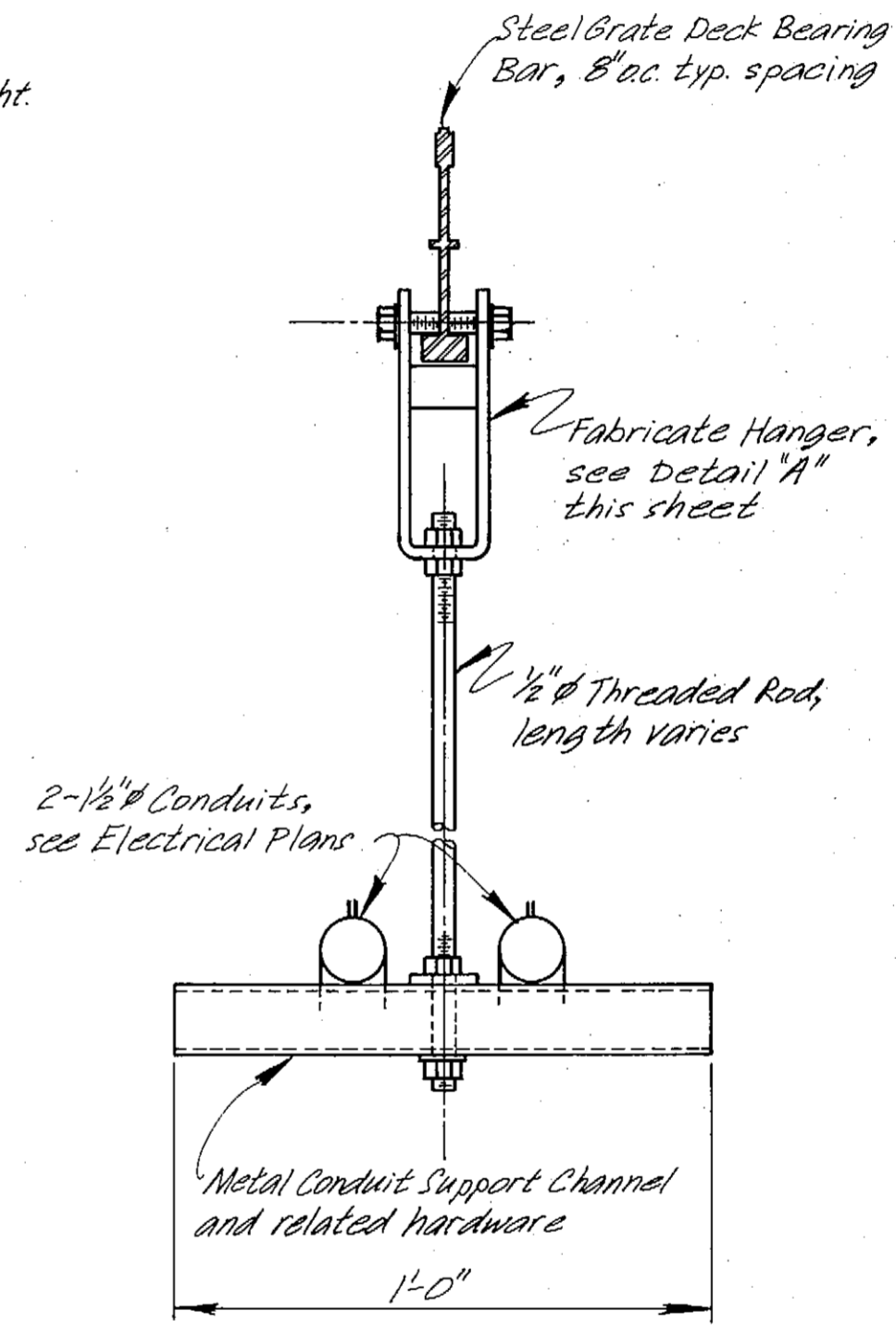
SECTION (B)



CURVED APPROACH RAILPOST

NTS

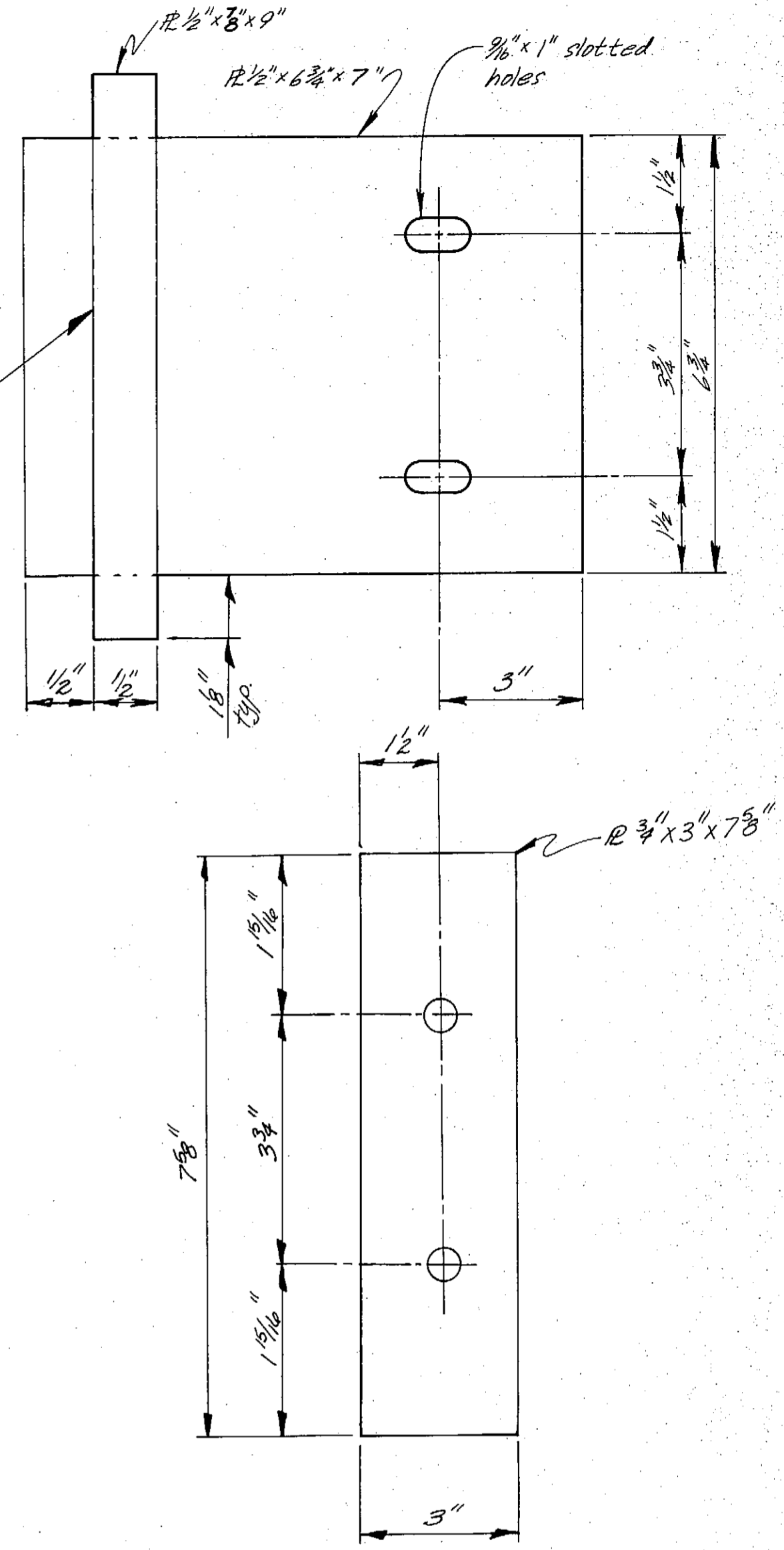
Note: For additional details see sht 46



CONDUIT HANGER

NTS

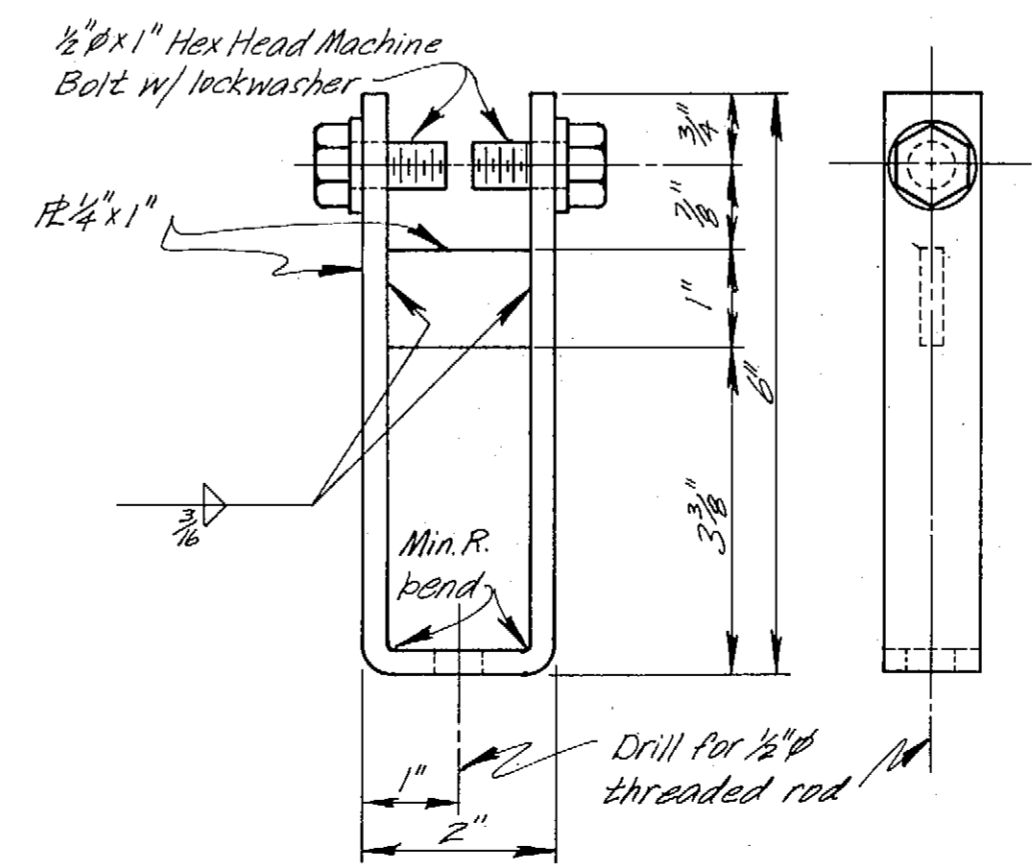
(25 Req'd.)



DECK CLIP DETAILS

NTS

(12 req'd. per panel, approx 12 lb AS6 per clip)



DETAIL "A"

NTS

- Notes:
1. Approx. Total Steel wt. Deck and Railing = 23500 lb per segment, 20,250 lb AS6, 3100 lb AS20, 50 lb A307 and ~100 lb weld.
  2. Approx. 2 CY. of Class A-A concrete per segment.
  3. Galvanize after fabrication.
  4. For Railing Details, see sheet 46.
  5. Alternate "A" shown this sheet, for Alternate "B" as built awarded, see details sheet 60.

**AS-BUILT**

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

**CURVED APPROACH DECK AND RAILING DETAILS**

SCALE As Noted  
DESIGNED LS  
CHECKED BS

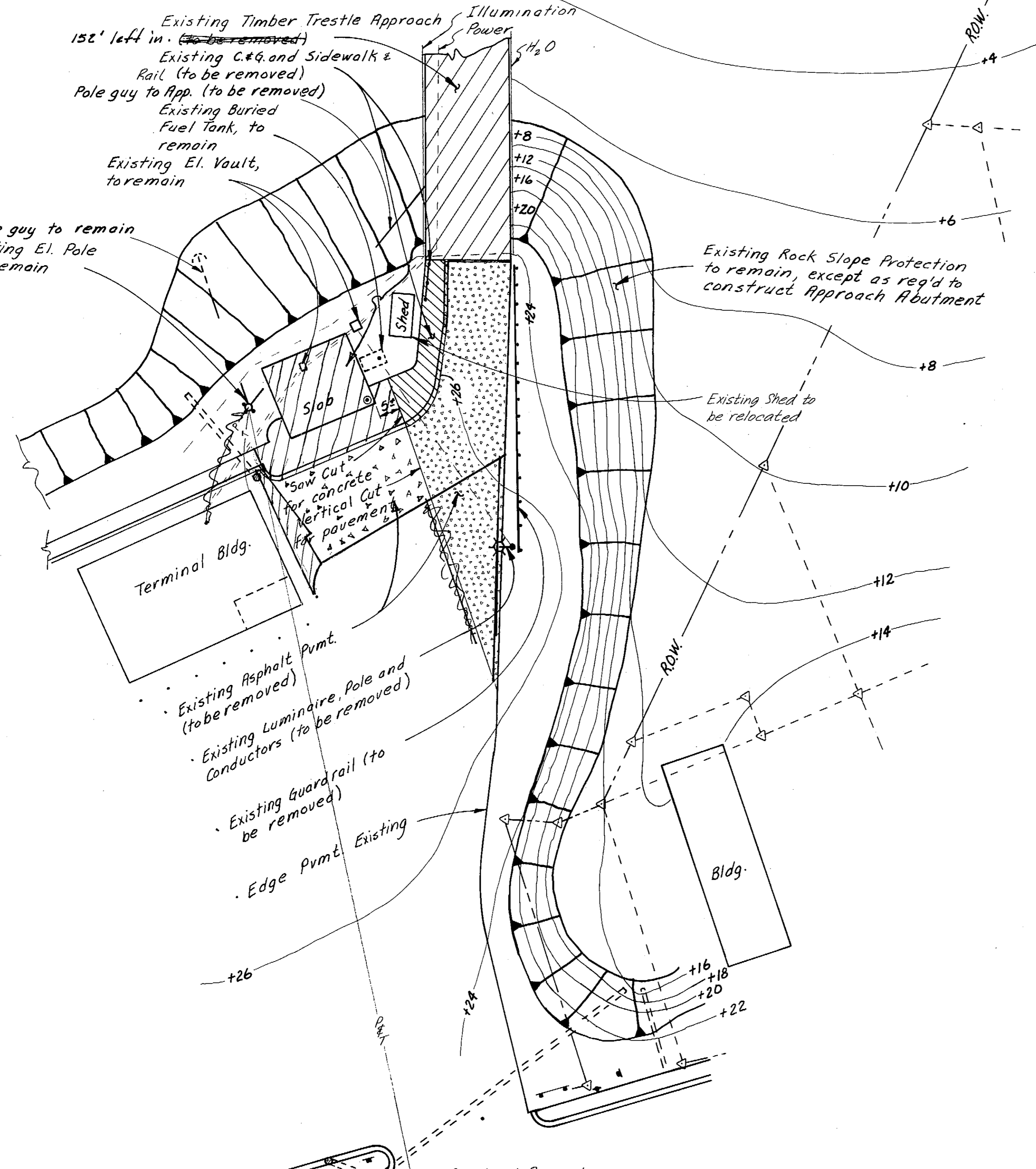
SURVEYED  
DRAWN LWB  
DATE 3/84

APPROVED

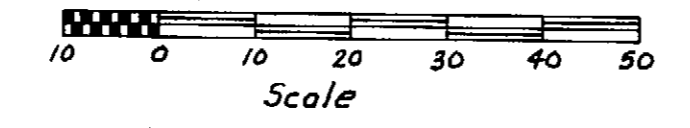
PROJECT NUMBER A38502 SHEET 51 OF 62

John T. Scott, II  
CE 4755  
REGISTERED PROFESSIONAL ENGINEER  
2-25-85

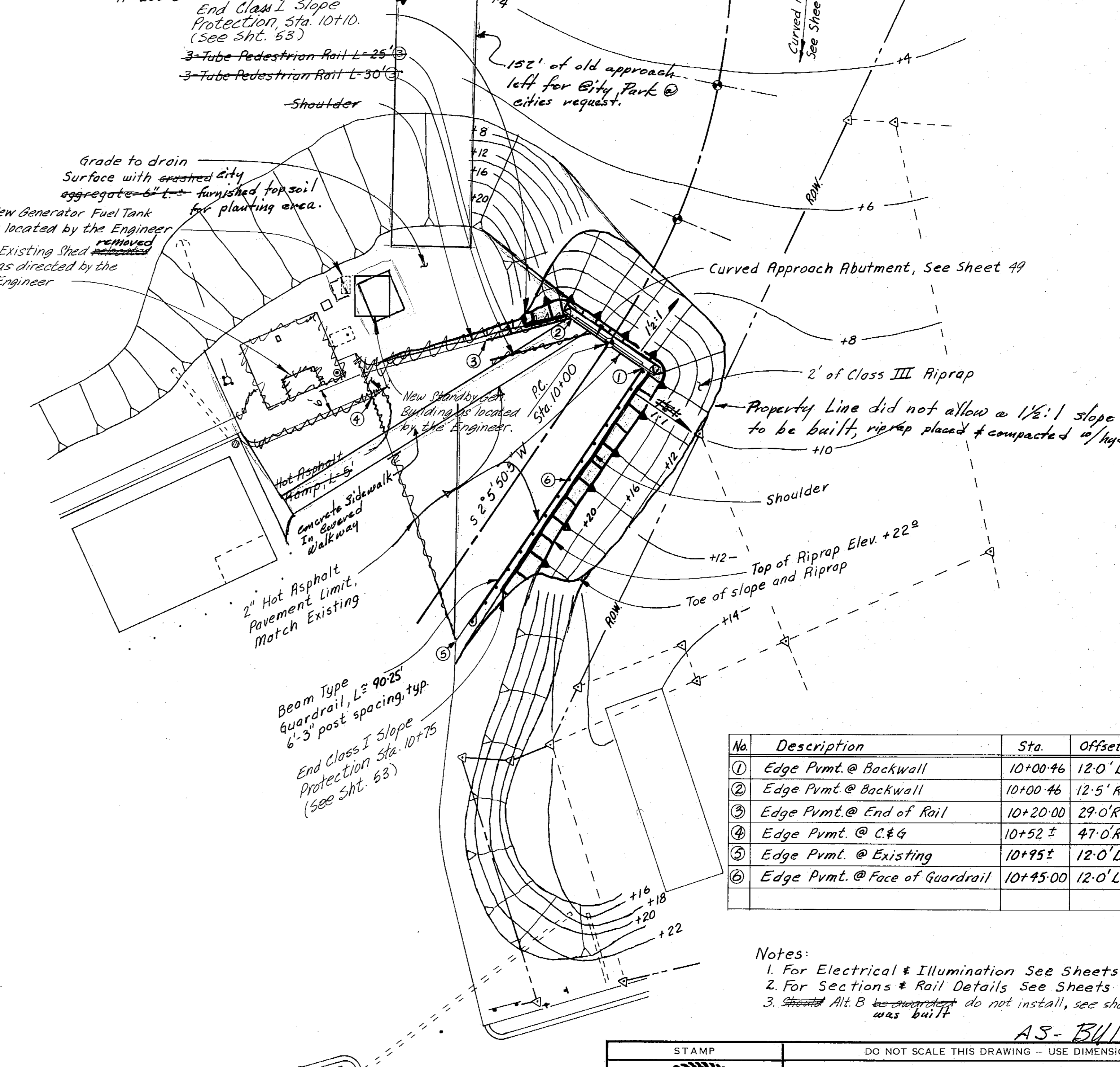
- Conduits on Approach to be removed.
- 1/4" Illumination Conduit
- 3" Power Conduit
- 1" H<sub>2</sub>O Conduit



**SITE PLAN - EXISTING**  
Contours based on 1983 Survey



R.P.  
 $\Delta = 34^\circ 26' 06.1''$   
 $L = 120.2'$   
 $R = 200.0'$



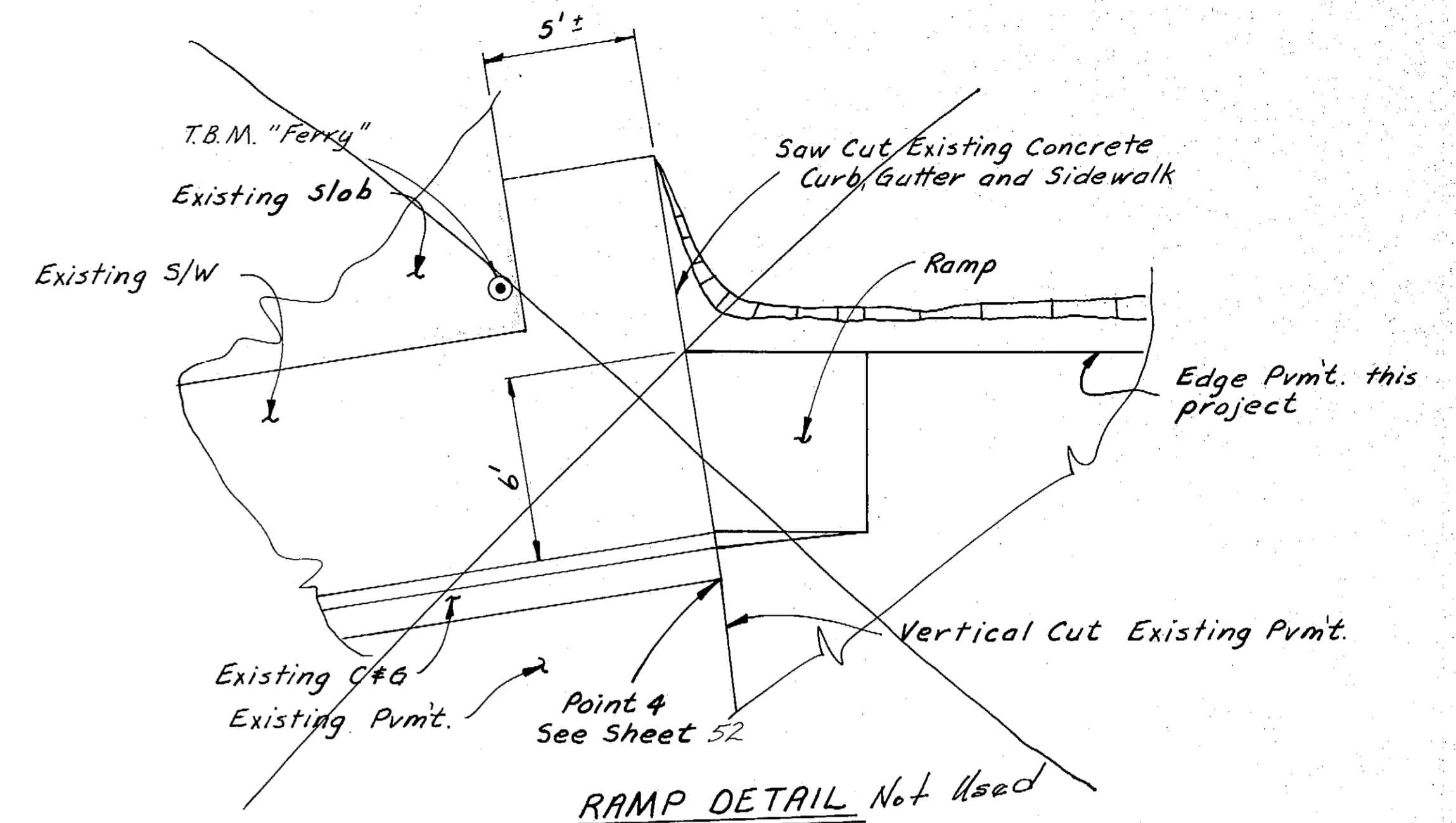
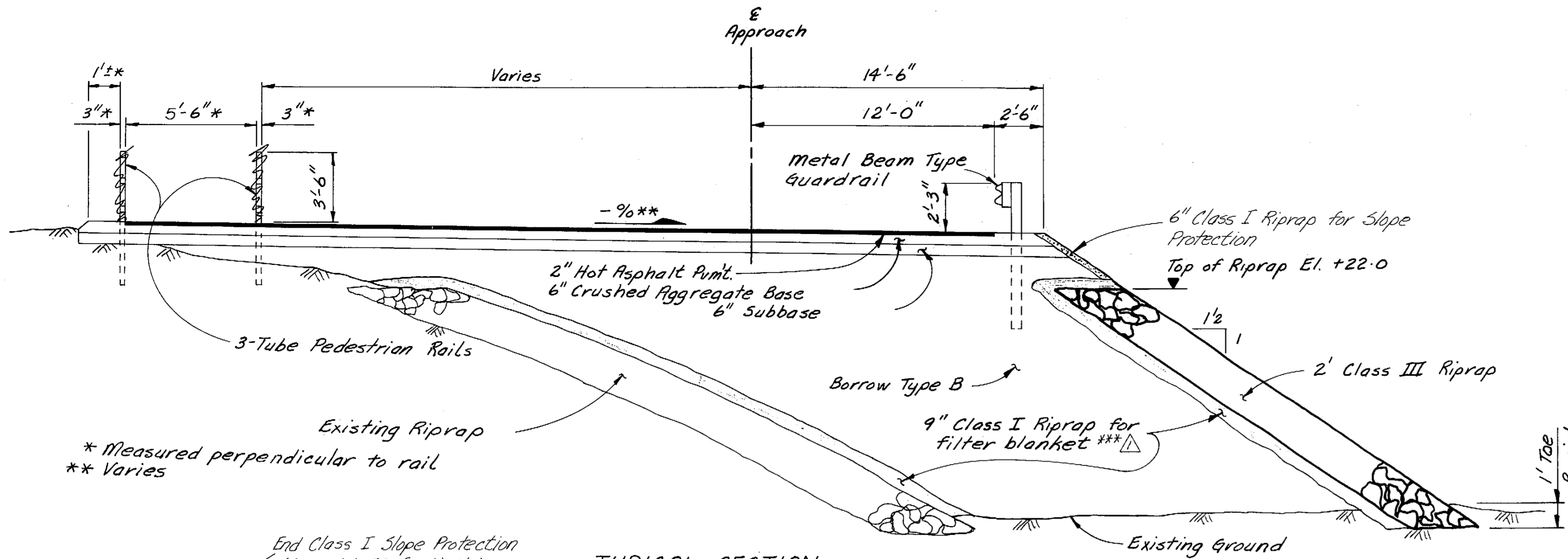
**SITE PLAN - PROPOSED**

No.	Description	Sta.	Offset	Elev.
①	Edge Pvmt. @ Backwall	10+00.46	12.0' Lt.	+25.0
②	Edge Pvmt. @ Backwall	10+00.46	12.5' Rt.	+25.0
③	Edge Pvmt. @ End of Rail	10+20.00	29.0' Rt.	+25.5
④	Edge Pvmt. @ C.&G.	10+52 ±	47.0' Rt. ±	Match
⑤	Edge Pvmt. @ Existing	10+95 ±	12.0' Lt.	Match
⑥	Edge Pvmt. @ Face of Guardrail	10+45.00	12.0' Lt.	+25.5

- Notes:
- For Electrical & Illumination See Sheets 54-56
  - For Sections & Rail Details See Sheets 53
  - ~~Sheet~~ Alt. B ~~is proposed~~ do not install, see sheet 61 was built

**AS-BUILT**

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
<b>UPLANDS LAYOUT AND GRADING</b>			
SCALE: As Noted	SURVEYED: _____	APPROVED: _____	
DESIGNED: <b>EB</b>	DRAWN: <b>EB</b>	DATE: <b>2-87</b>	
CHECKED: _____	DATE: _____	PROJECT NUMBER: <b>A38502</b>	
2-25-85		SHEET <b>52</b> OF <b>62</b>	

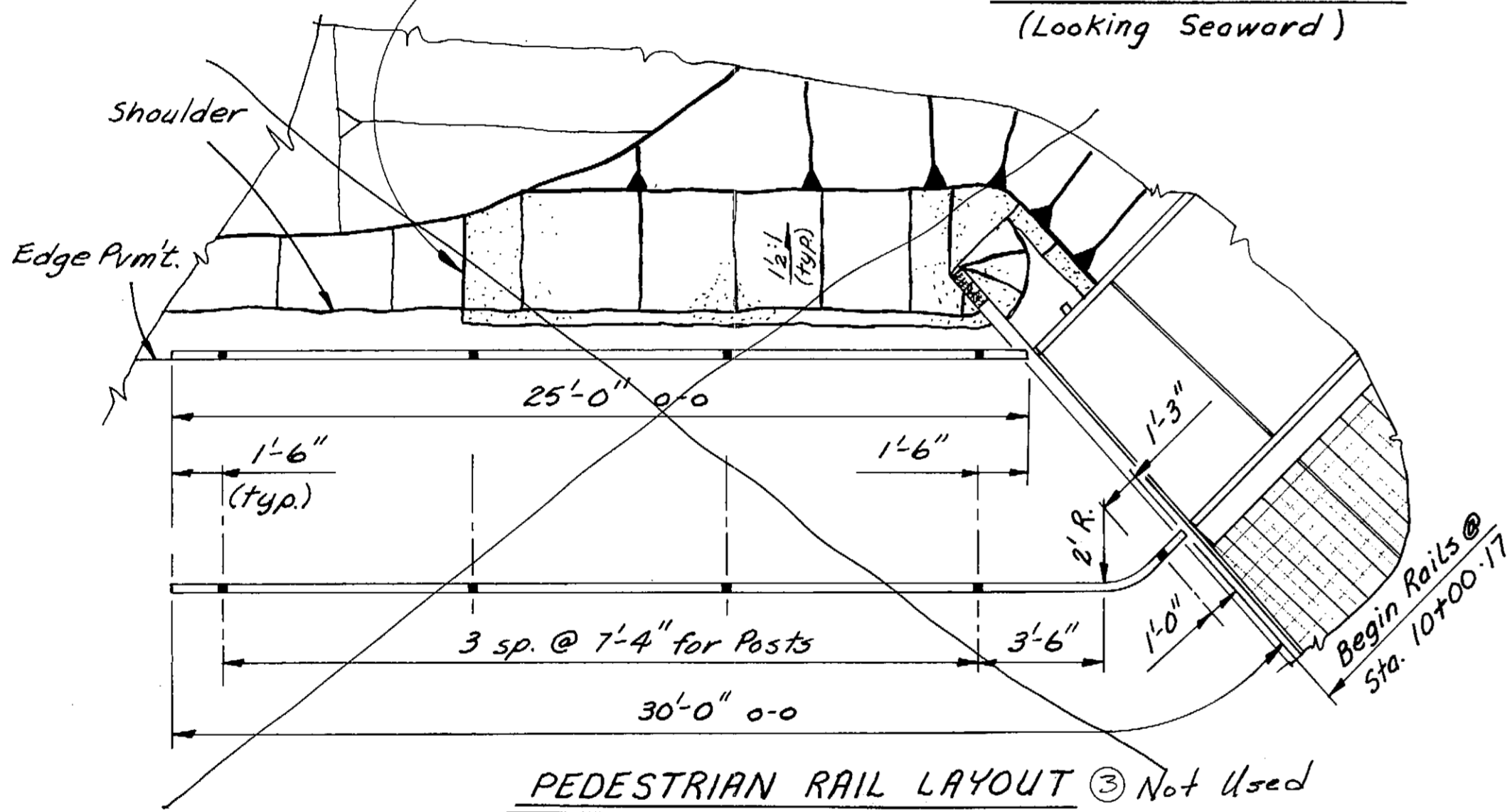


\* Measured perpendicular to rail  
\*\* Varies

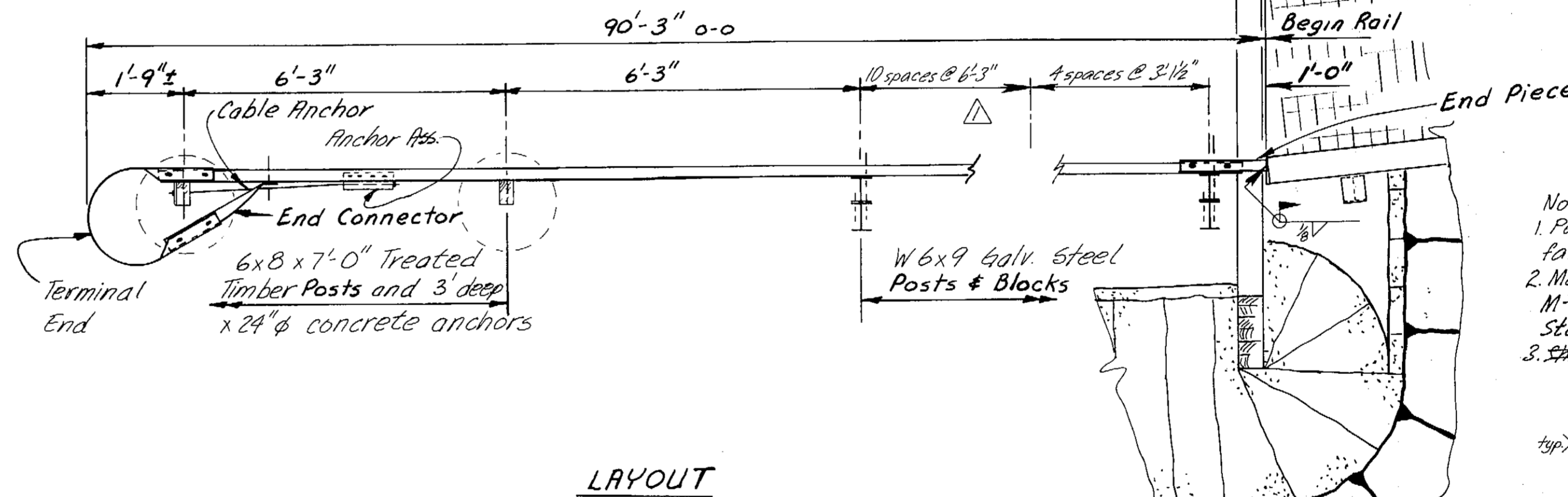
End Class I Slope Protection  
(See Sht. 52 for Limits)

**TYPICAL SECTION**  
(Looking Seaward)

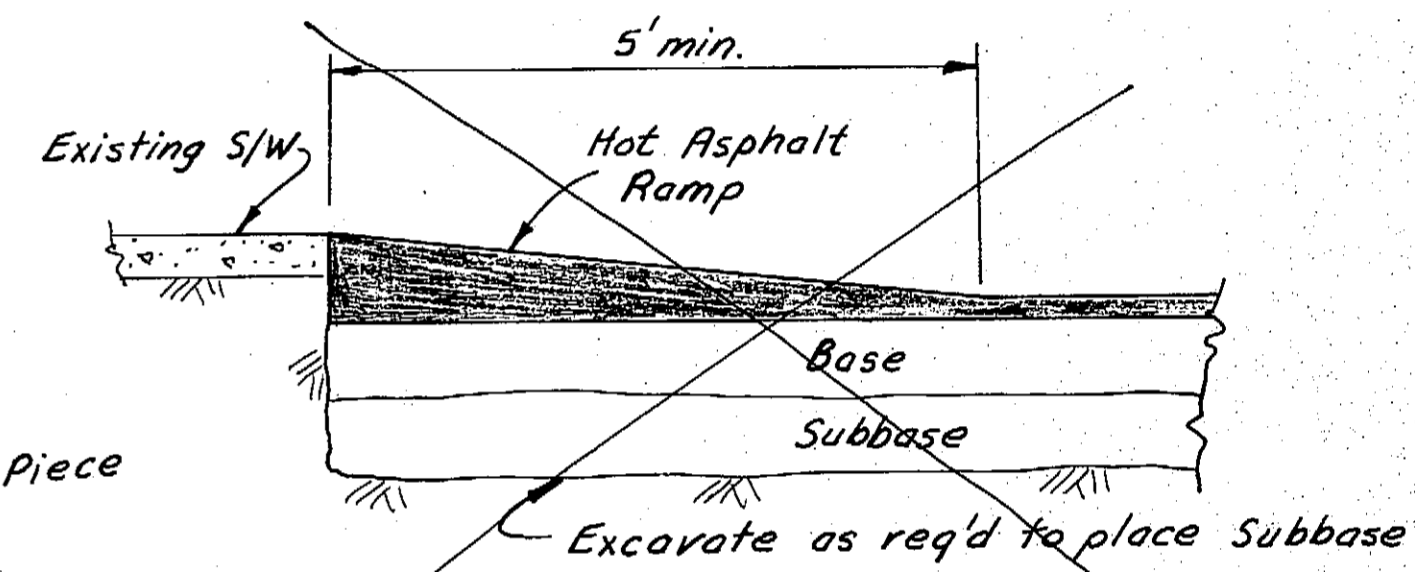
\*\*\* Note: If in the opinion of the Engineer the Class I Riprap will not adequately filter the Borrow supplied, the Contractor shall supply and install a geotextile product (Filter cloth) designed specifically for the material gradations supplied. Geotextile to be installed between Borrow and Class I Riprap.



**PEDESTRIAN RAIL LAYOUT** (Not Used)

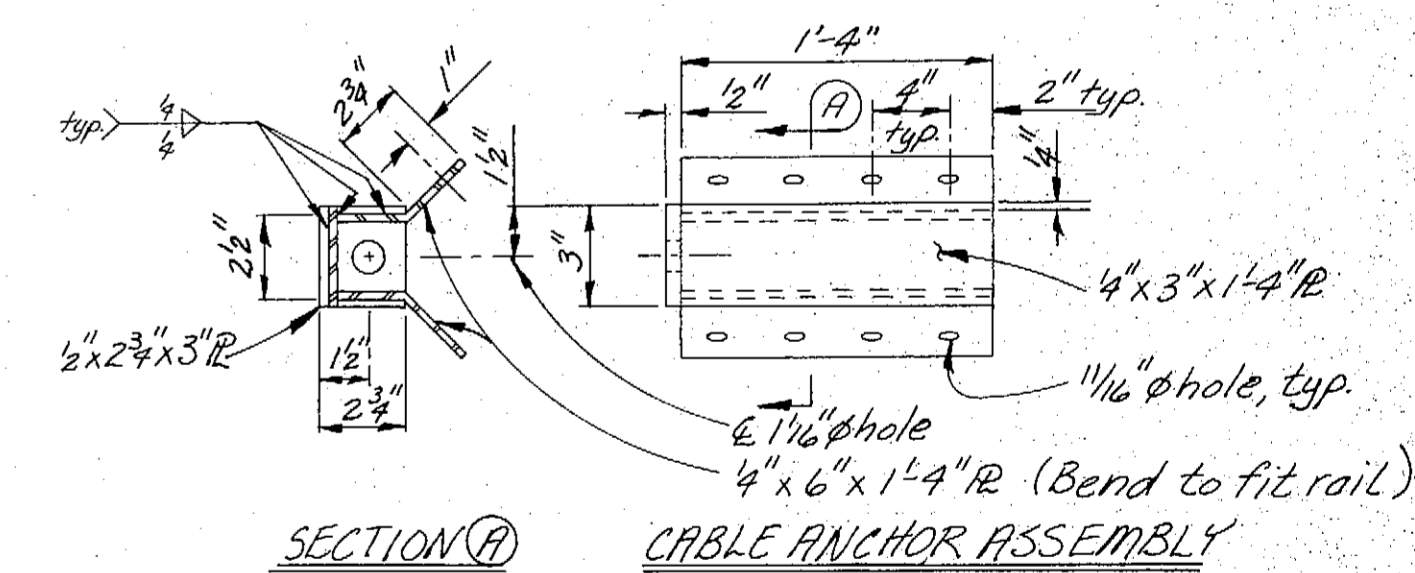


**LAYOUT**

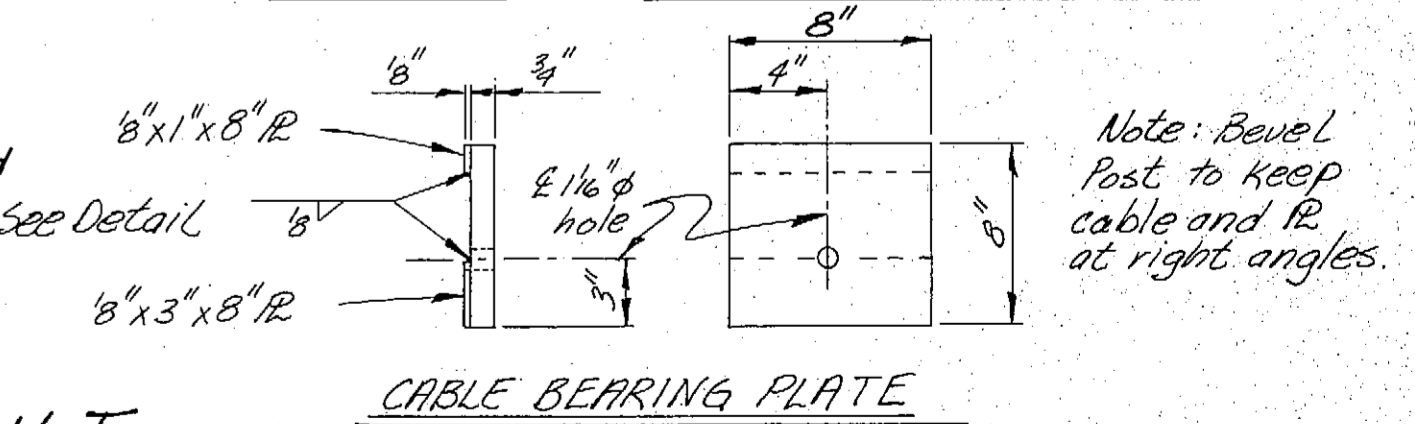


**SECTION THRU RAMP**

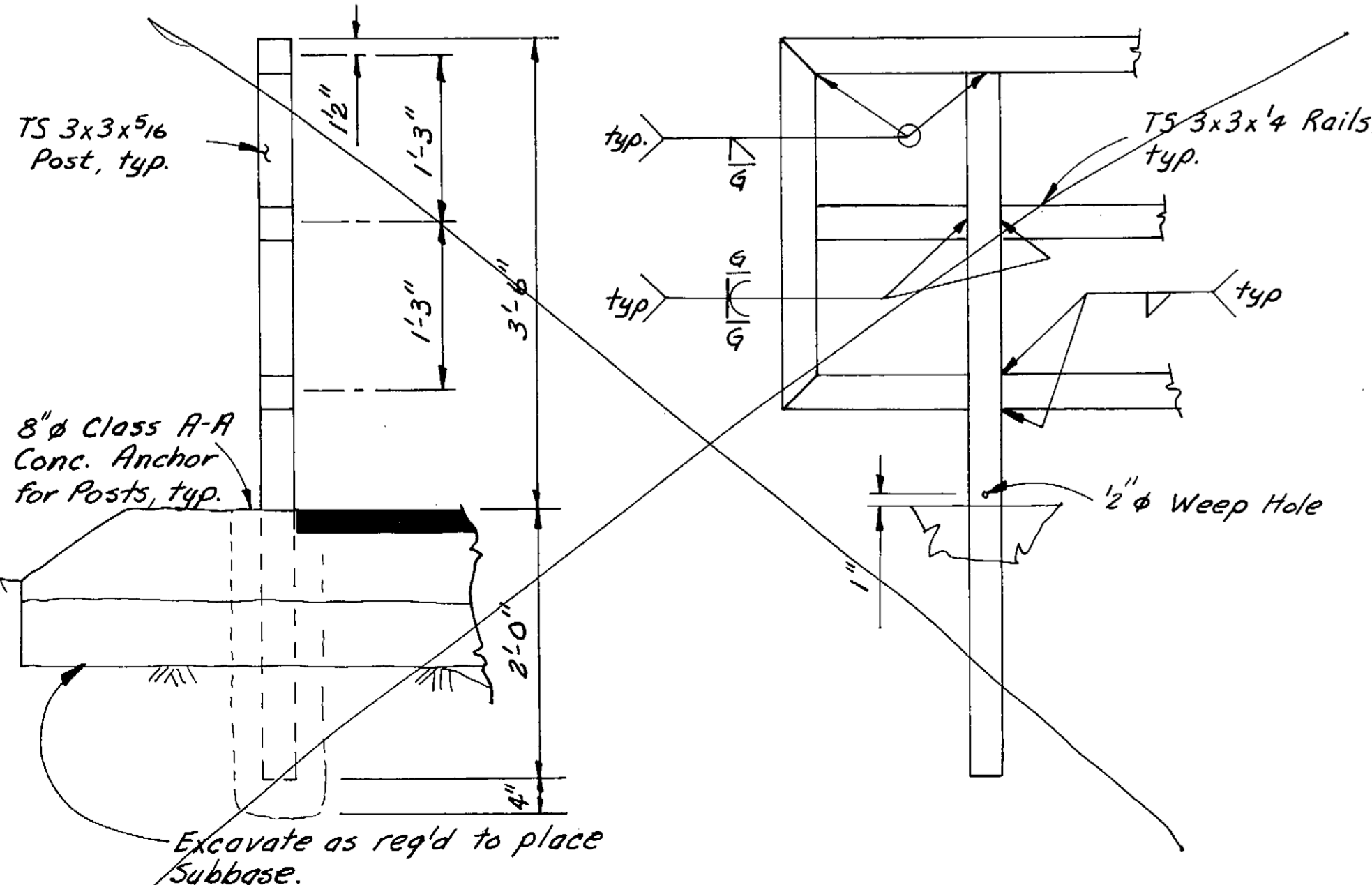
- Notes:  
1. Posts, blocks, rails and hardware shall be galvanized after fabrication.  
2. Metal Beam Guardrail and Hardware shall conform to AASHTO M-180, Class A, Type 2, as shown in ARTBA's Guide to Standardized Highway Barrier Rail Hardware.  
3. Should Alt. B be used do not install, see sheet 61



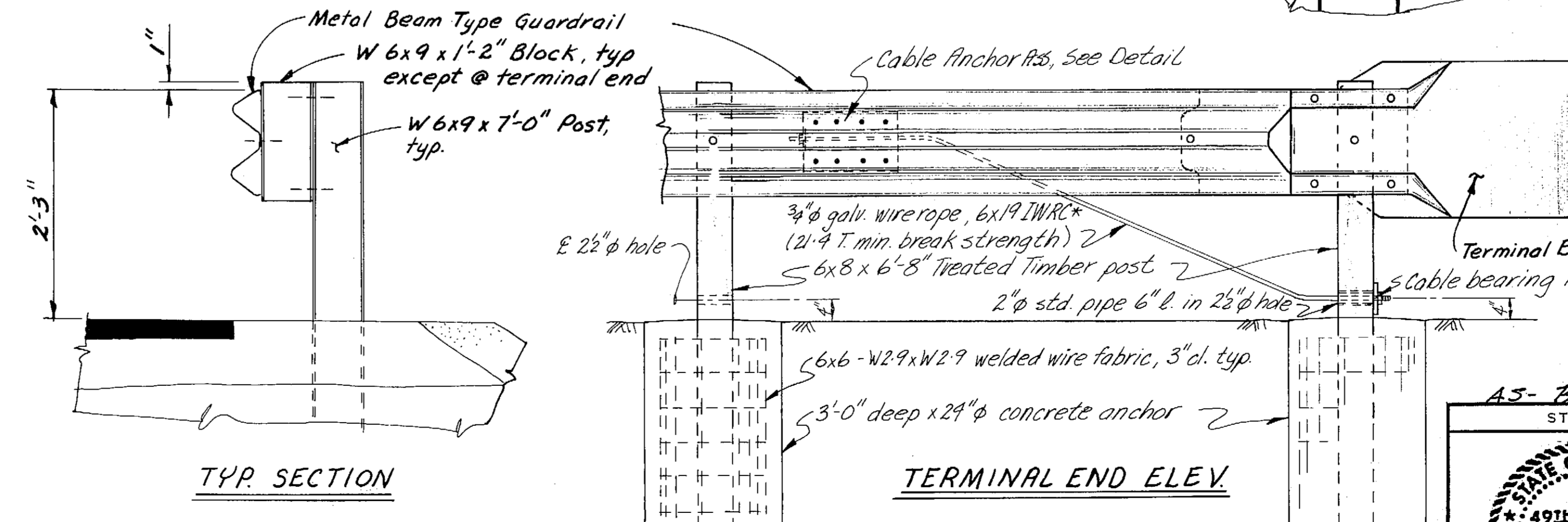
**SECTION (A) CABLE ANCHOR ASSEMBLY**



**CABLE BEARING PLATE**



**PED. RAIL DETAILS** (Not Used)



**TERMINAL END ELEV.**

**GUARDRAIL DETAILS**

\* Swage fitting ea. end w/ 1" φ threaded stud 7" l. w/ nut

▲ Add Geotextile, Weld Approach Rail to Guardrail	3/85	LVB
No. Correction	Date	By

**AS-BUILT**

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

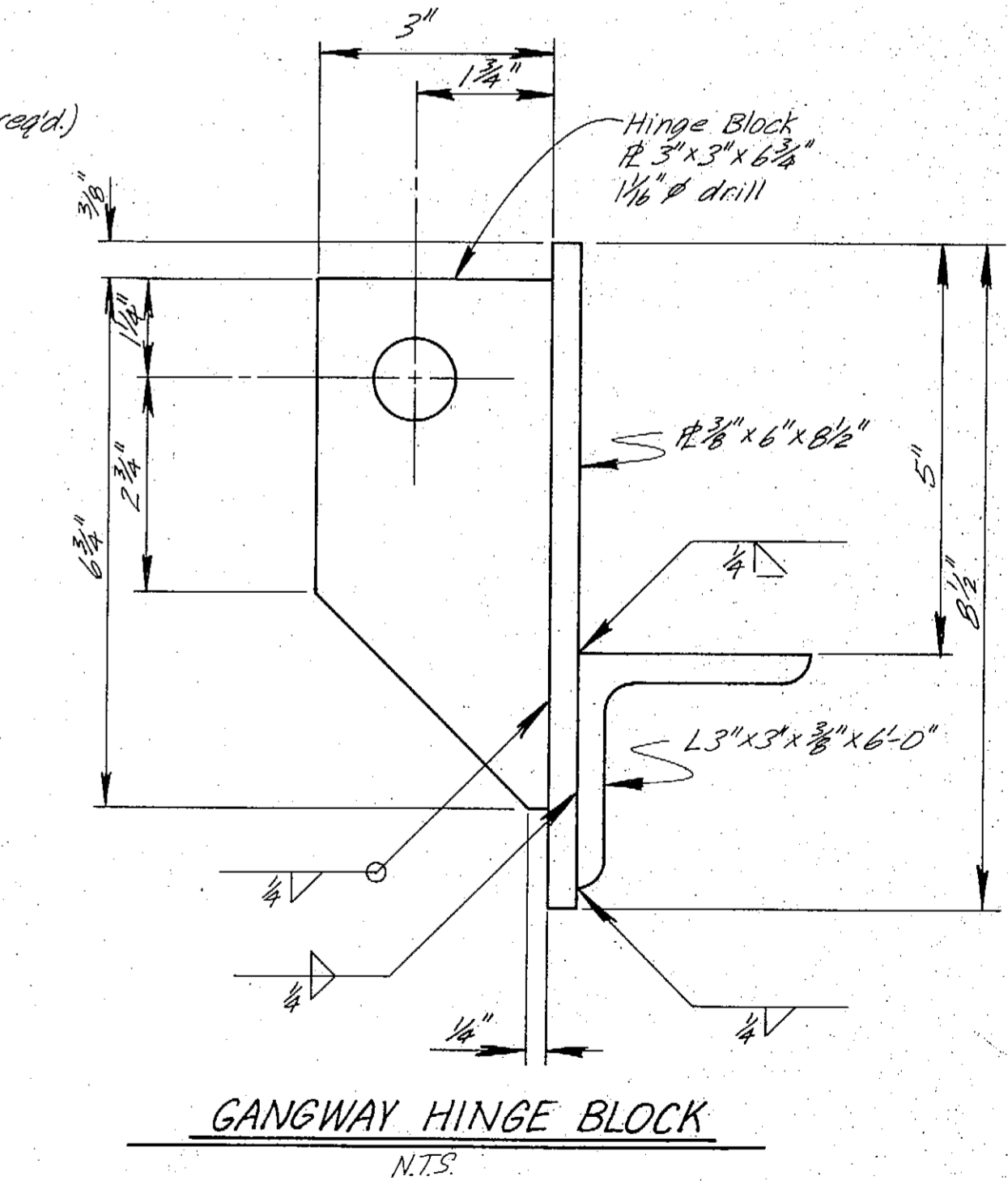
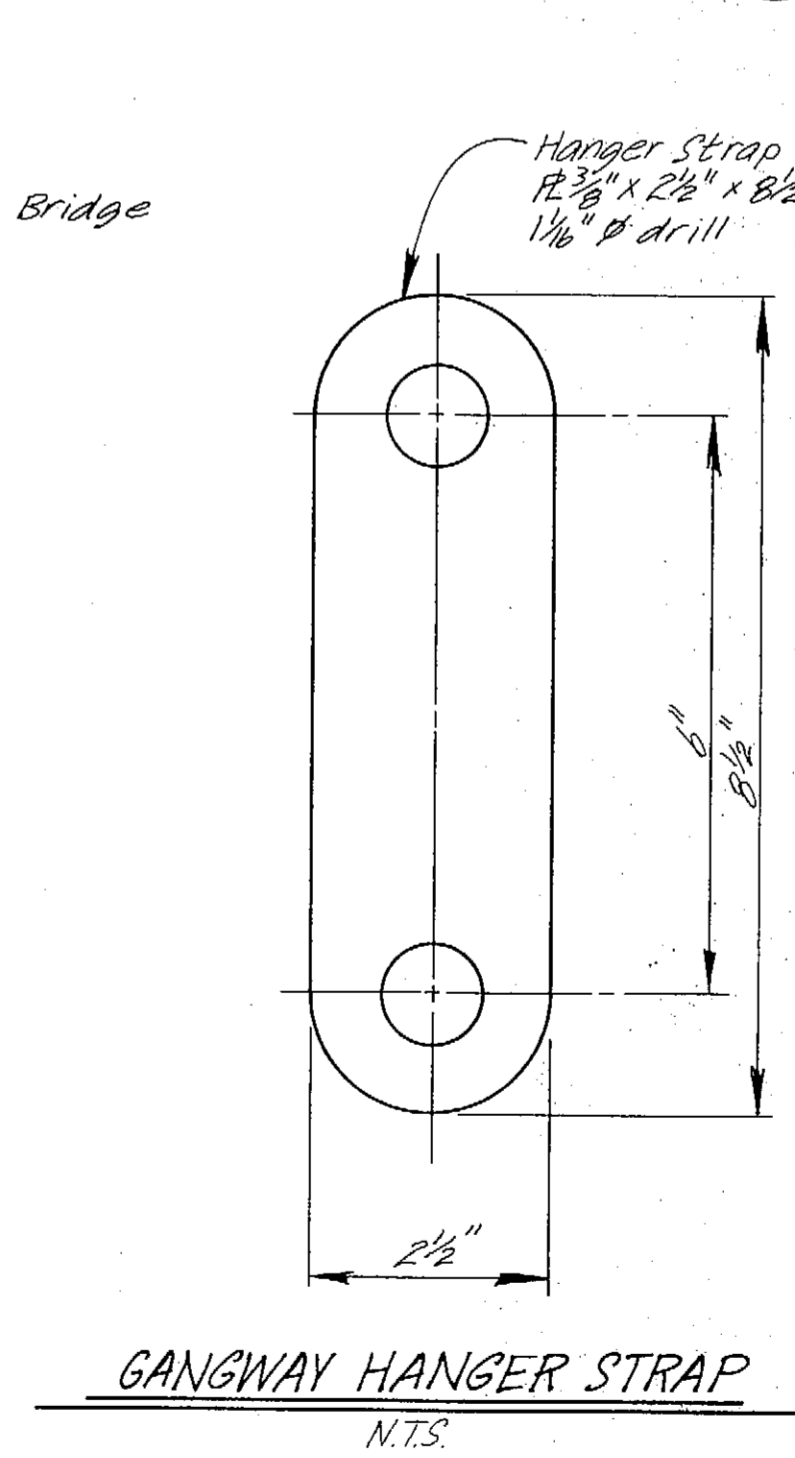
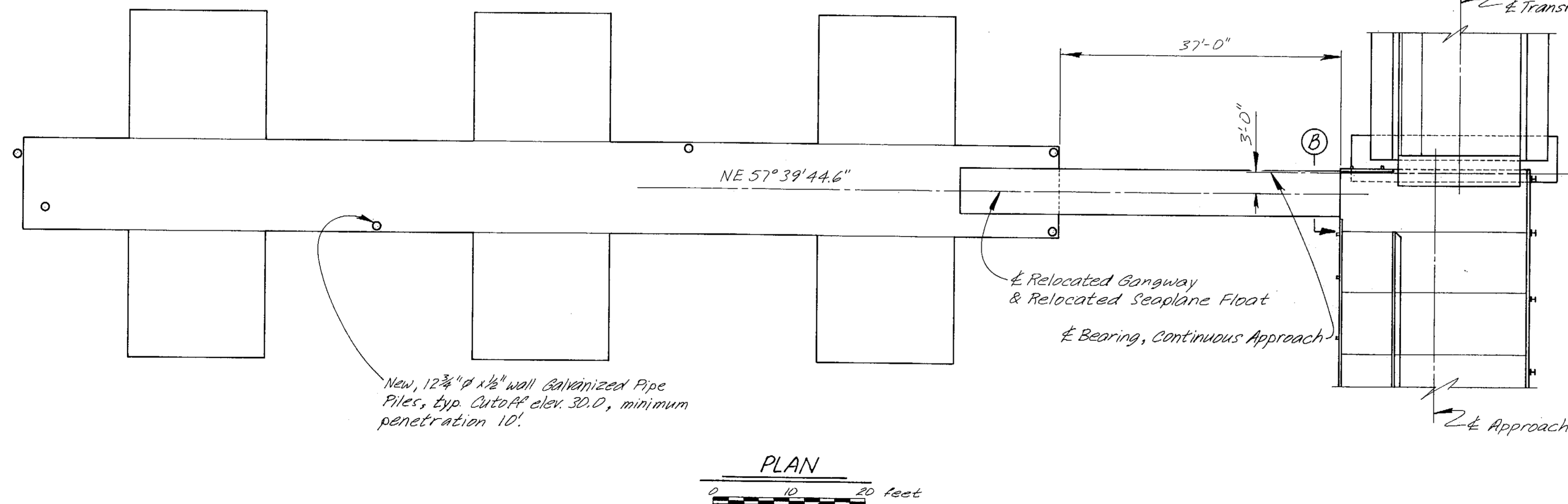
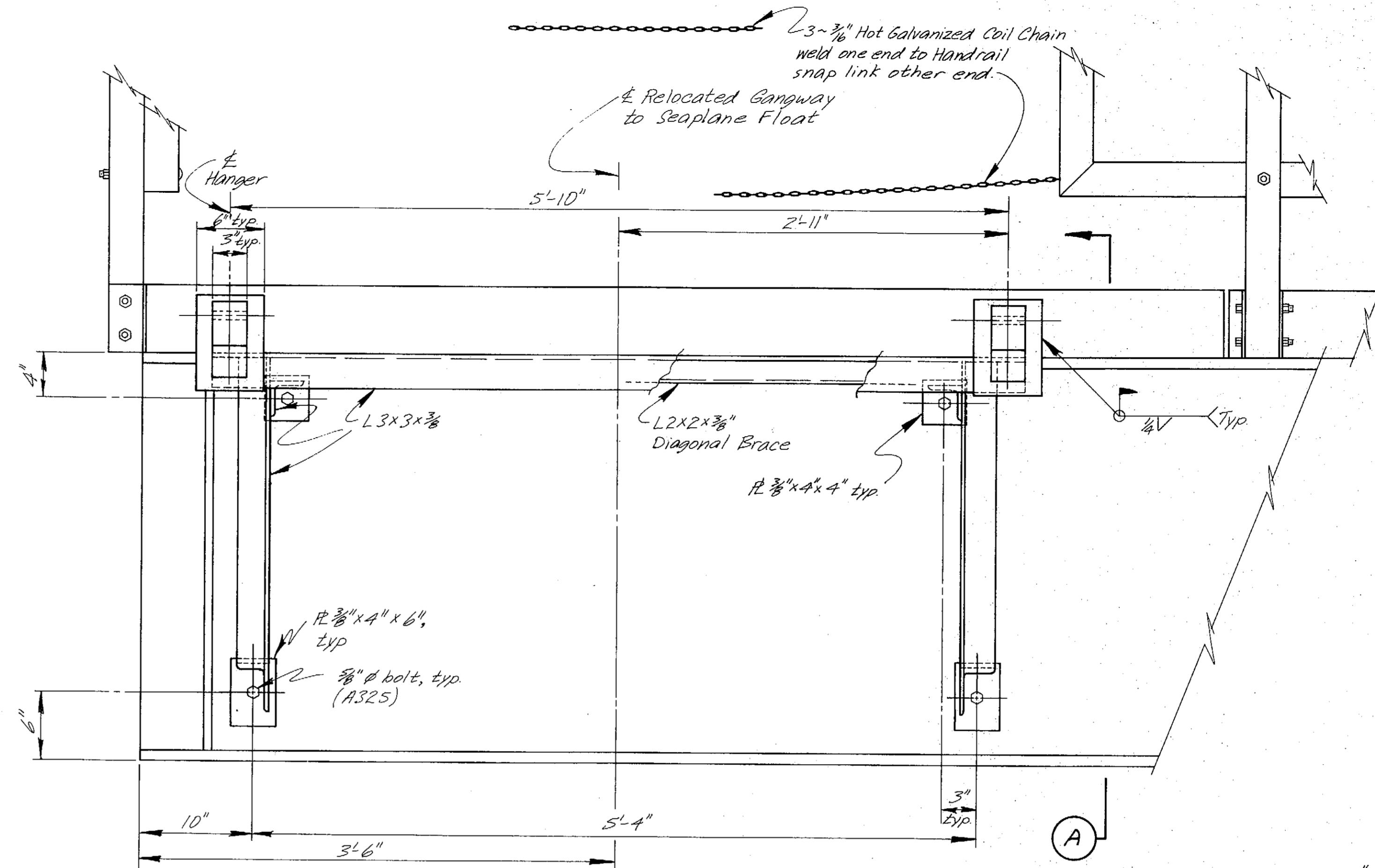
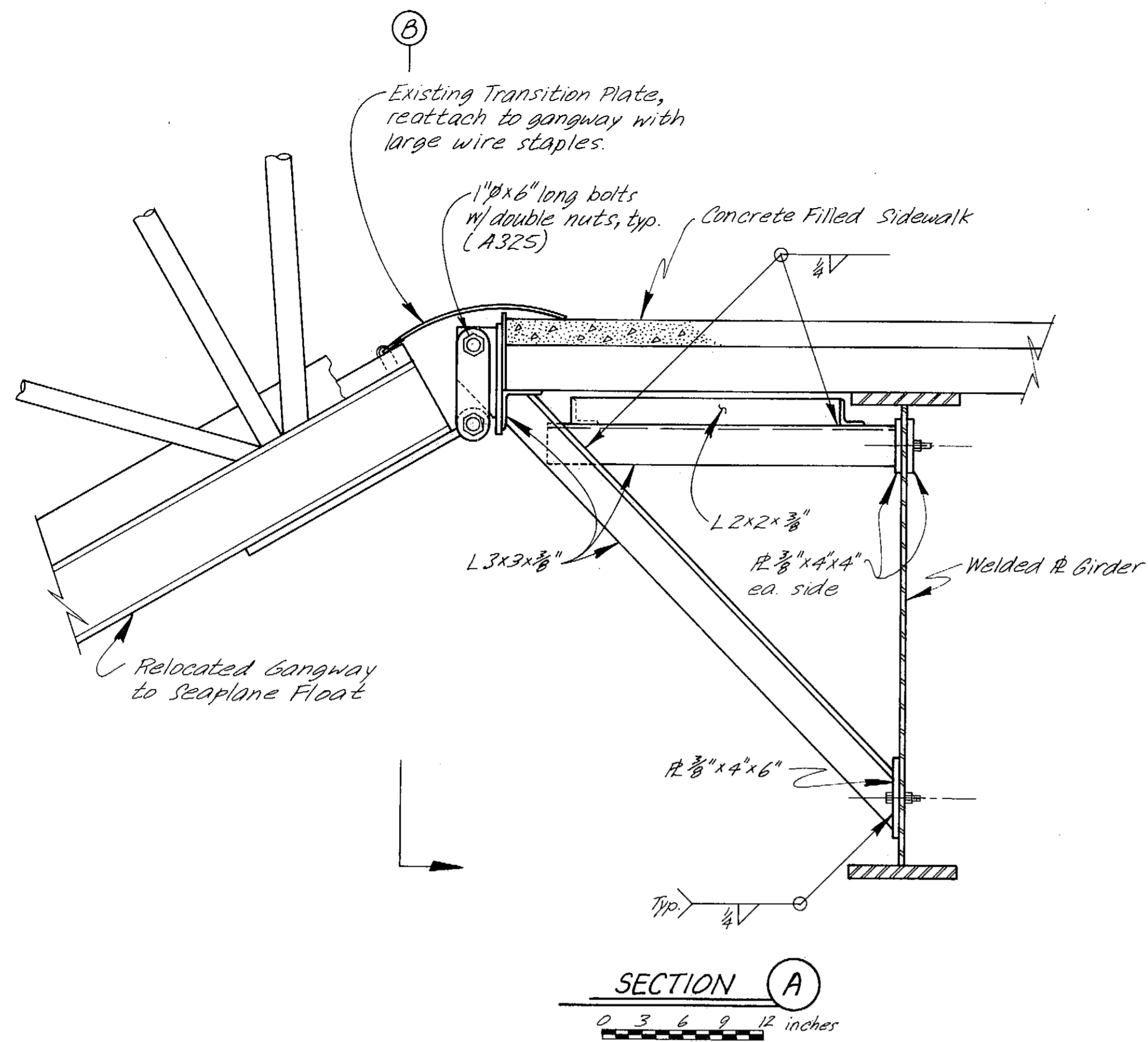
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**UPLANDS TYPICAL SECTION AND RAIL DETAILS**

SCALE None SURVEYED None APPROVED None  
DESIGNED JS DRAWN JS  
CHECKED None DATE 2-89

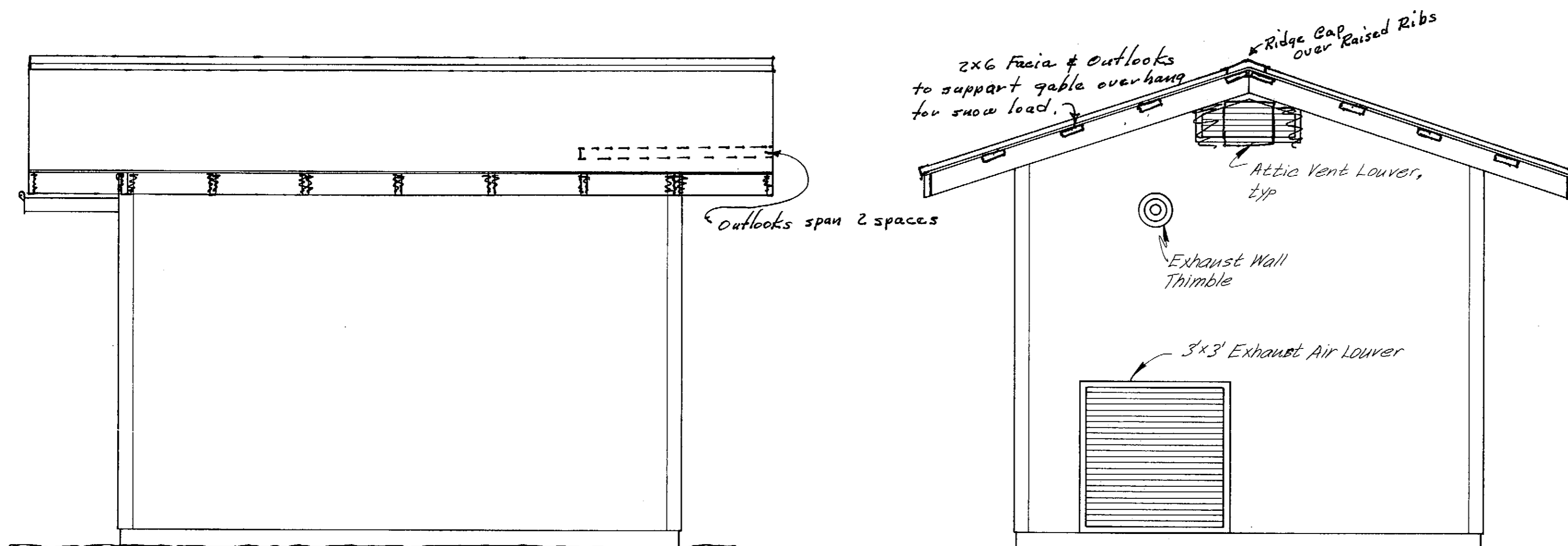
PROJECT NUMBER **A38502** SHEET **53** OF **61**

John T. Scott, II  
CE 4755  
2-25-85



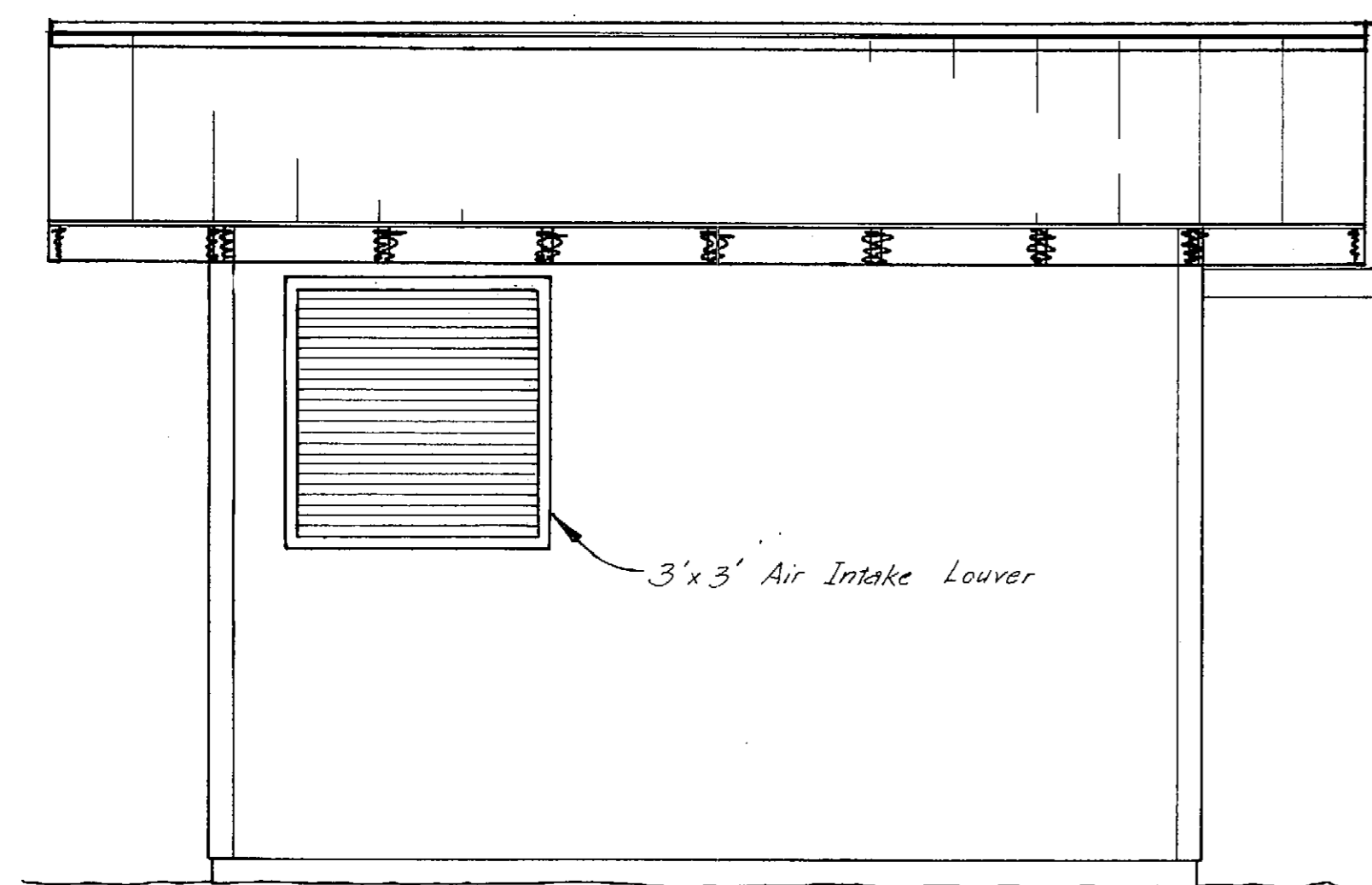
AS - Bui H

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska	
RELOCATED SEAPLANE FLOAT			
DESIGNED <u>JS</u>	CHECKED _____	DRAWN <u>LVB</u>	DATE <u>5/1/84</u>
PROJECT NUMBER <u>A38502</u>	SHEET <u>54</u> OF <u>62</u>		

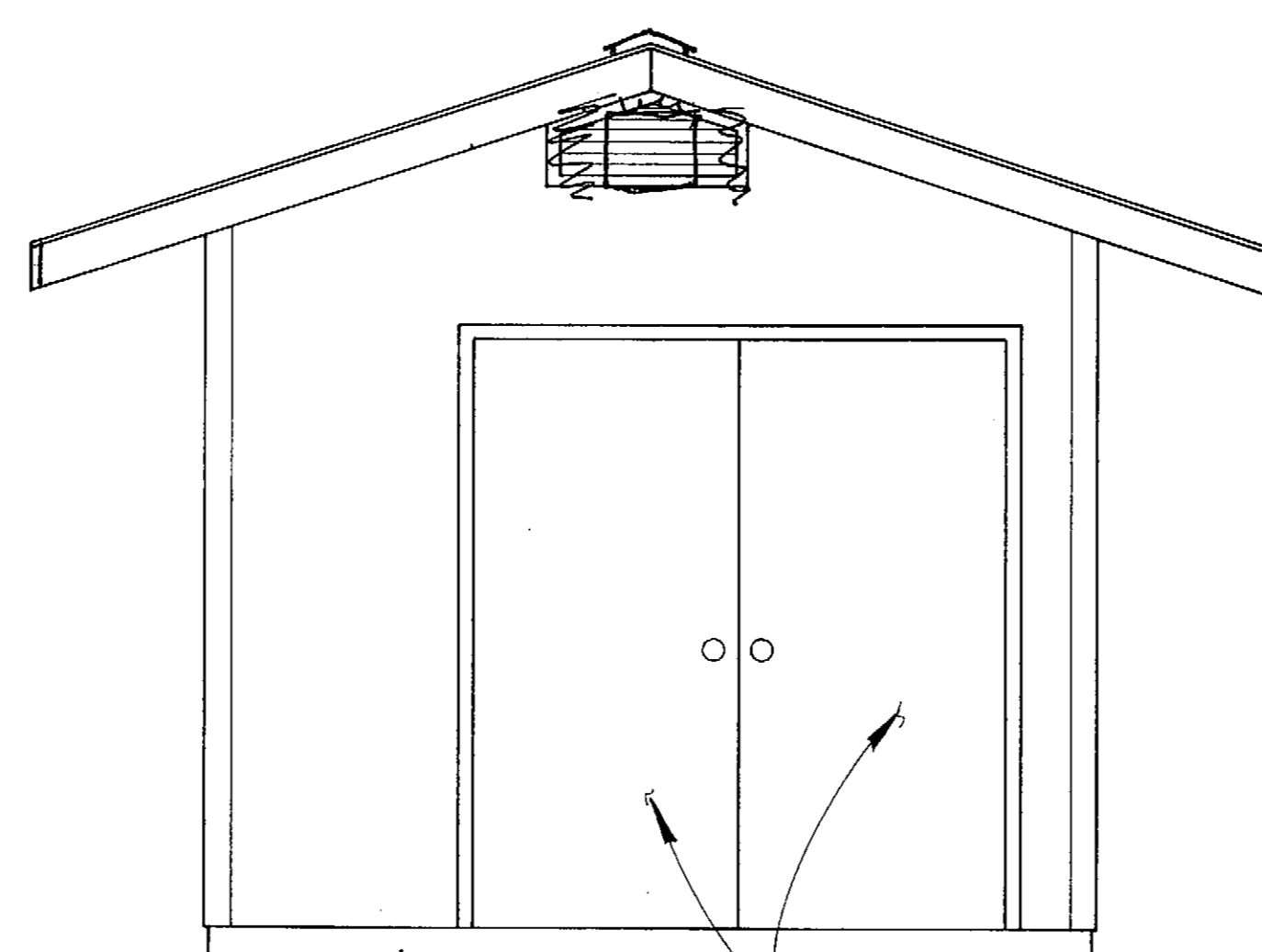


LEFT SIDE

BACK

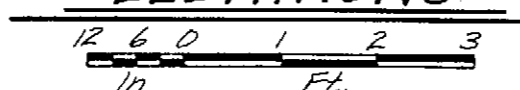


RIGHT SIDE

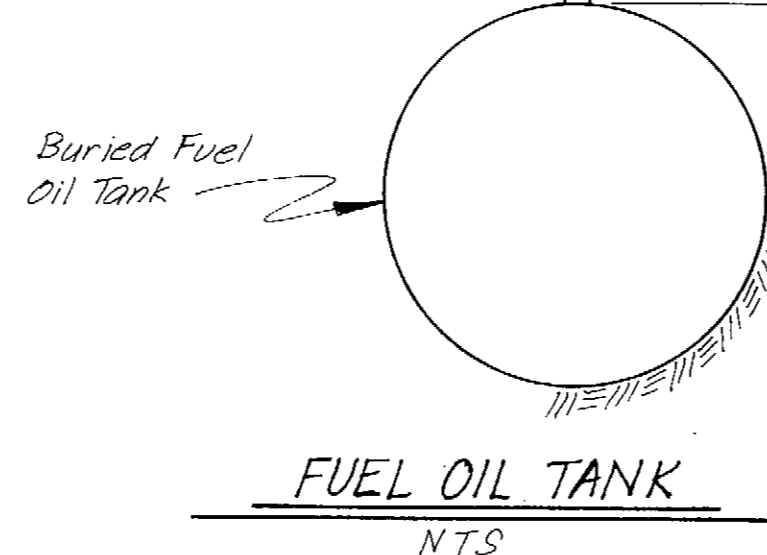
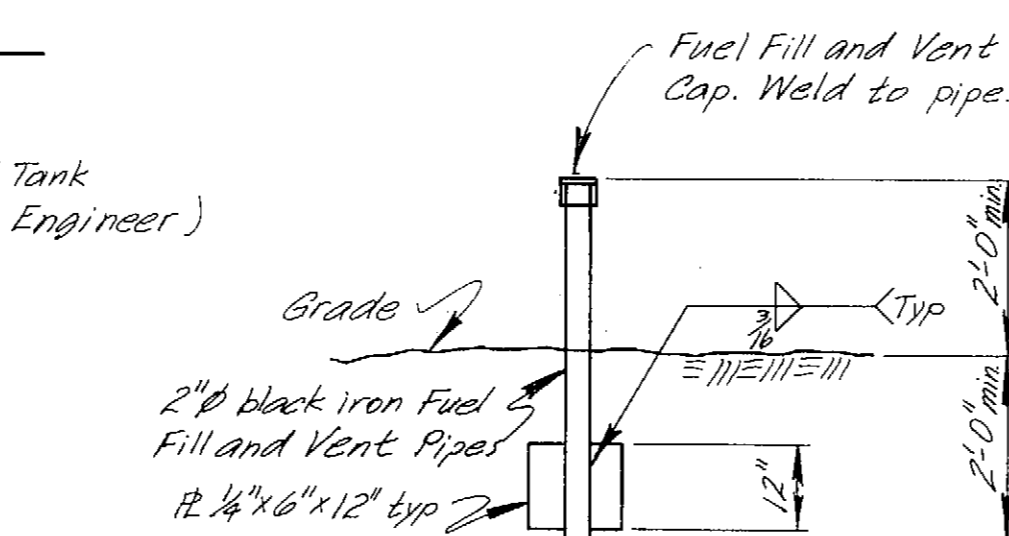


FRONT

ELEVATIONS

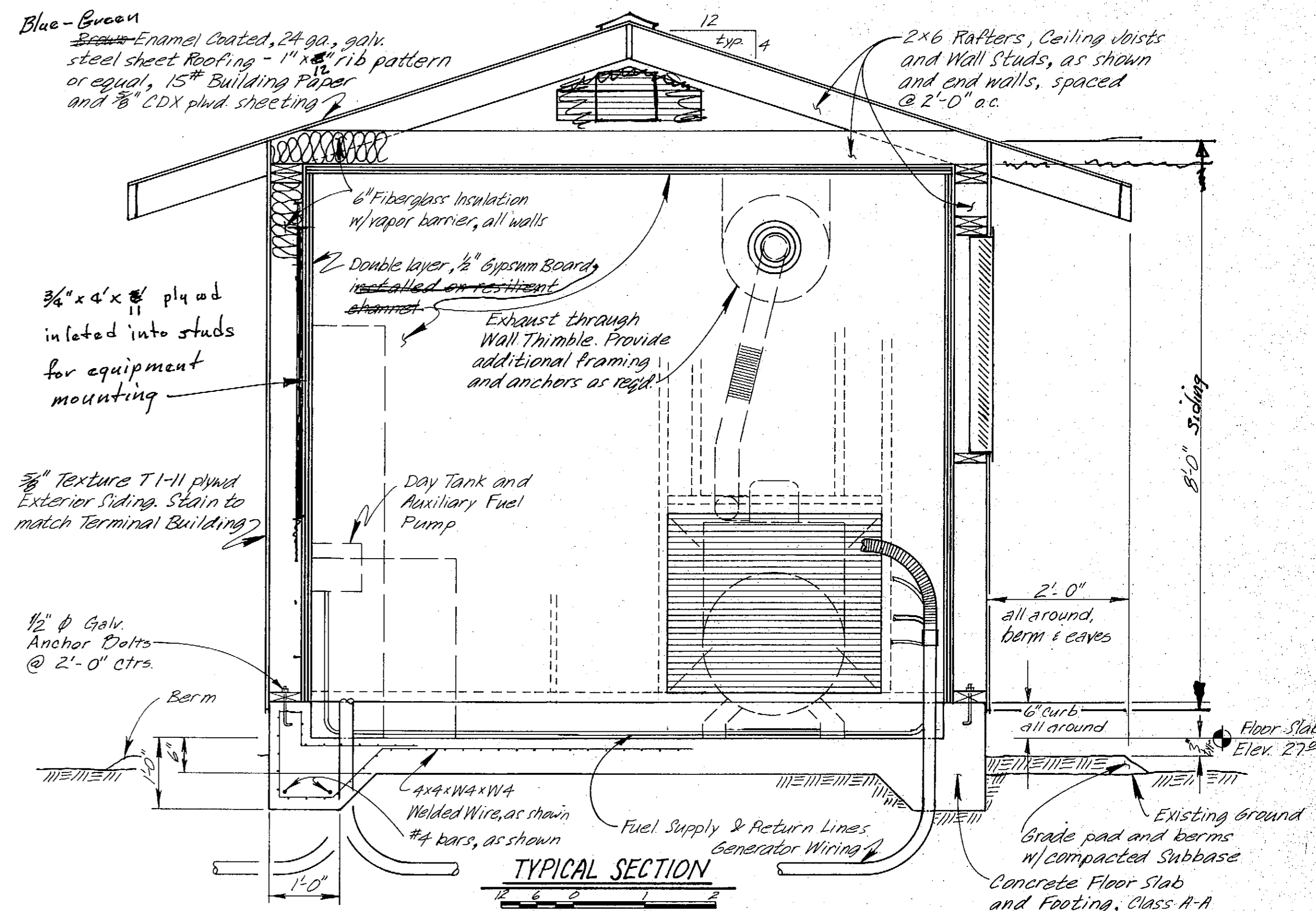


(Generator Building and Fuel Tank located as directed by the Engineer)

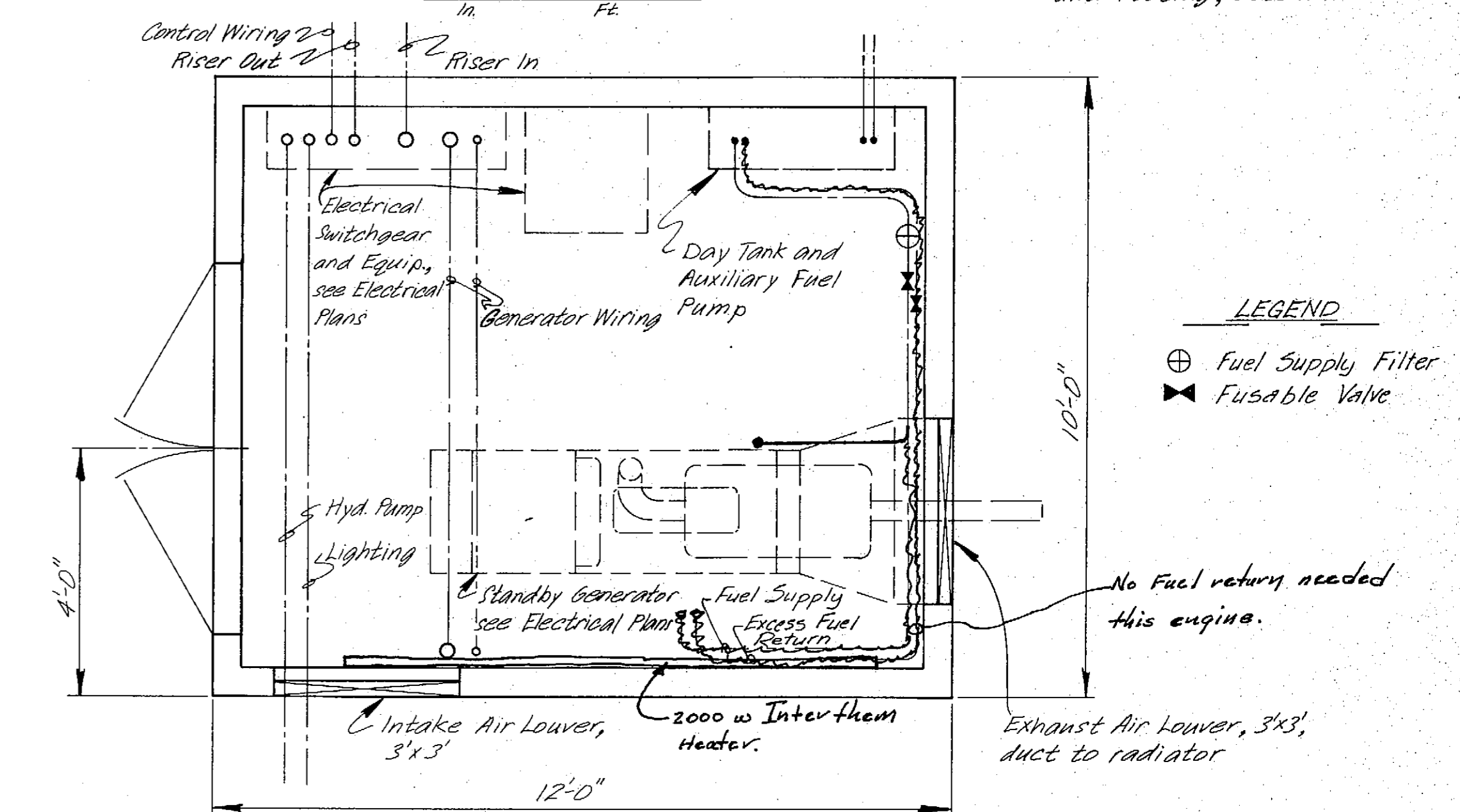


FUEL OIL TANK

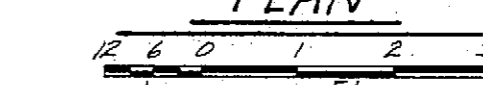
NTS



TYPICAL SECTION



PLAN



- Notes:
1. For Standby Generator and Day Tank requirements see Electrical Plans and Section 501
  2. For sizes and exact locations of Conduits, refer to Electrical Plan Sheets and Section 501.
  3. Sill timbers to be pressure treated and anchored to slab with 1/2 inch anchor bolts at 2 feet a.c.
  4. For convenience outlets, lights, and fire suppression system, see EI. Plans.

AS - Built

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

STANDBY GENERATOR BUILDING

DESIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_ DRAWN LJB DATE 7/84

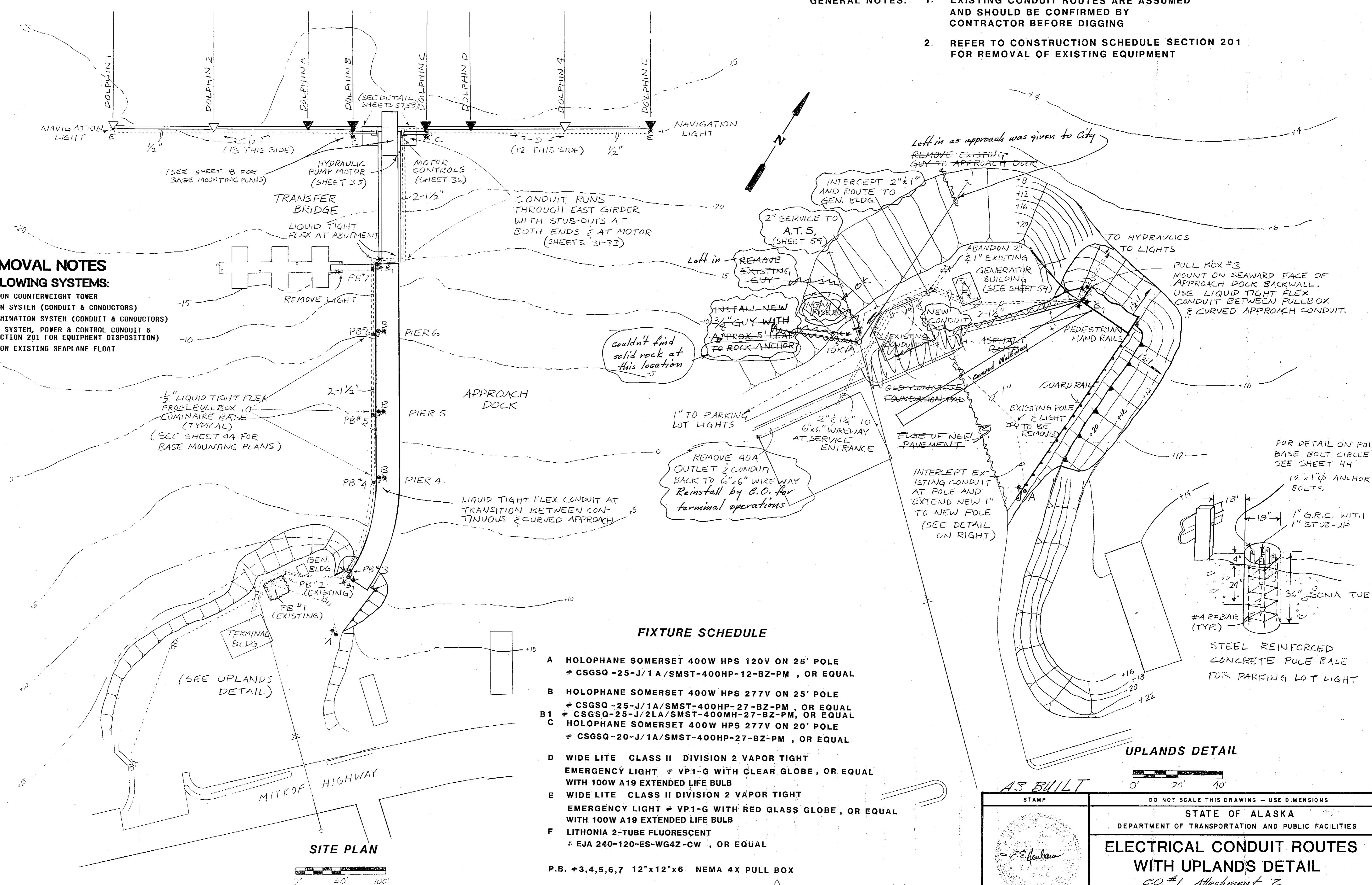
PROJECT NUMBER A38502 SHEET 55 OF 62

STAMP: JOHN T. SCOTT, II, CE 4755, PROFESSIONAL ENGINEER, 2-25-88

- GENERAL NOTES:
- EXISTING CONDUIT ROUTES ARE ASSUMED AND SHOULD BE CONFIRMED BY CONTRACTOR BEFORE DIGGING
  - REFER TO CONSTRUCTION SCHEDULE SECTION 201 FOR REMOVAL OF EXISTING EQUIPMENT

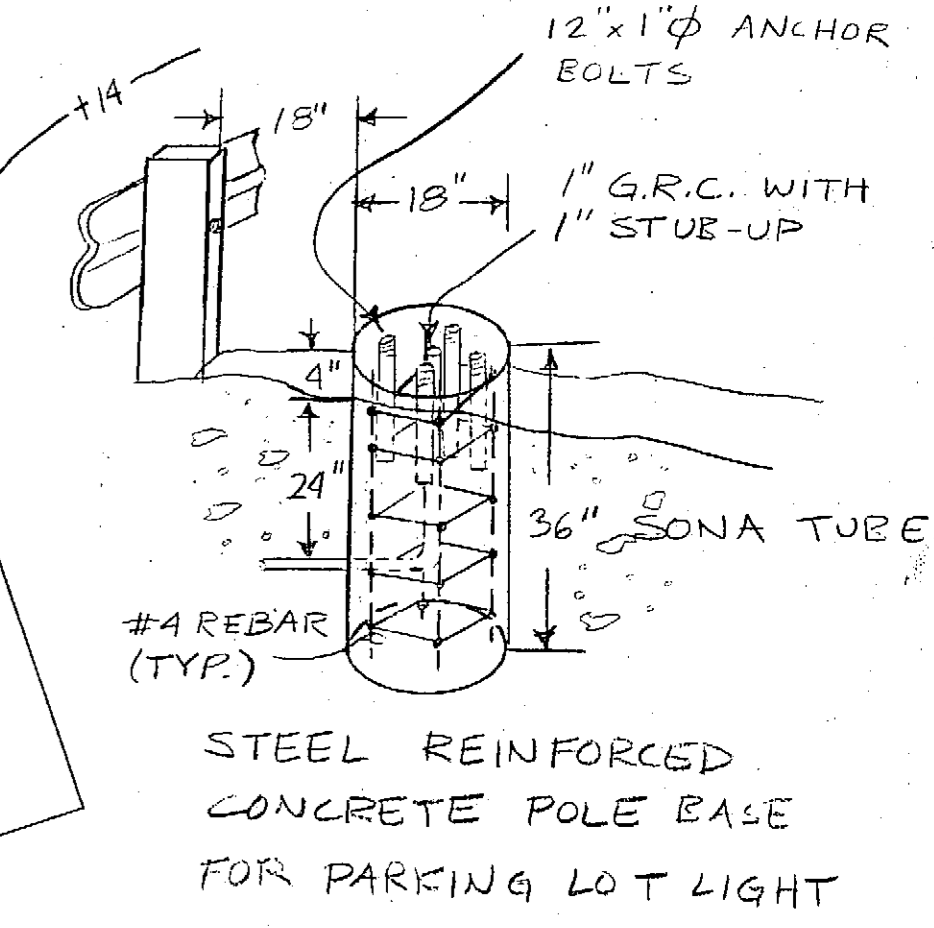
**REMOVAL NOTES**

- REMOVE THE FOLLOWING SYSTEMS:**
- ILLUMINATION SYSTEM ON COUNTERWEIGHT TOWER
  - APPROACH ILLUMINATION SYSTEM (CONDUIT & CONDUCTORS)
  - TRANSFER BRIDGE ILLUMINATION SYSTEM (CONDUIT & CONDUCTORS)
  - TRANSFER BRIDGE LIFT SYSTEM, POWER & CONTROL CONDUIT & CONDUCTORS (SEE SPEC SECTION 201 FOR EQUIPMENT DISPOSITION)
  - ILLUMINATION SYSTEM ON EXISTING SEAPLANE FLOAT



**FIXTURE SCHEDULE**

- A HOLOPHANE SOMERSET 400W HPS 120V ON 25' POLE  
# CSGSQ -25-J/1A/SMST-400HP-12-BZ-PM , OR EQUAL
  - B HOLOPHANE SOMERSET 400W HPS 277V ON 25' POLE  
# CSGSQ -25-J/1A/SMST-400HP-27-BZ-PM , OR EQUAL
  - B1 # CSGSQ-25-J/2LA/SMST-400MH-27-BZ-PM, OR EQUAL
  - C HOLOPHANE SOMERSET 400W HPS 277V ON 20' POLE  
# CSGSQ -20-J/1A/SMST-400HP-27-BZ-PM , OR EQUAL
  - D WIDE LITE CLASS II DIVISION 2 VAPOR TIGHT EMERGENCY LIGHT # VP1-G WITH CLEAR GLOBE , OR EQUAL WITH 100W A19 EXTENDED LIFE BULB
  - E WIDE LITE CLASS II DIVISION 2 VAPOR TIGHT EMERGENCY LIGHT # VP1-G WITH RED GLASS GLOBE , OR EQUAL WITH 100W A19 EXTENDED LIFE BULB
  - F LITHONIA 2-TUBE FLUORESCENT  
# EJA 240-120-ES-WG4Z-CW , OR EQUAL
- P.B. #3,4,5,6,7 12"x12"x6 NEMA 4X PULL BOX



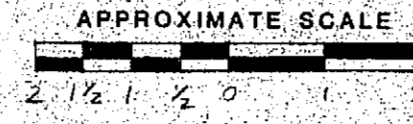
AS BUILT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
<b>ELECTRICAL CONDUIT ROUTES WITH UPLANDS DETAIL</b>			
C.O. #1 Attachment 2			
DESIGNED	CHECKED	DRAWN TCO	DATE 7-9-84
PROJECT NUMBER A38502	SHEET 56		OF 62

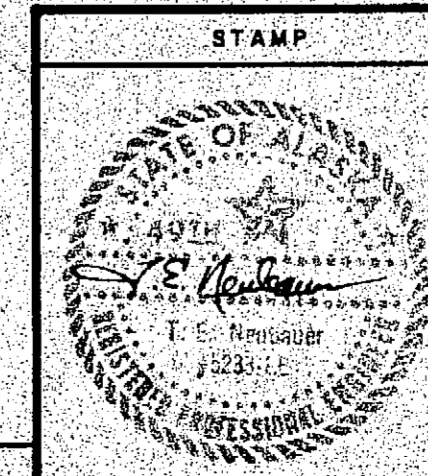
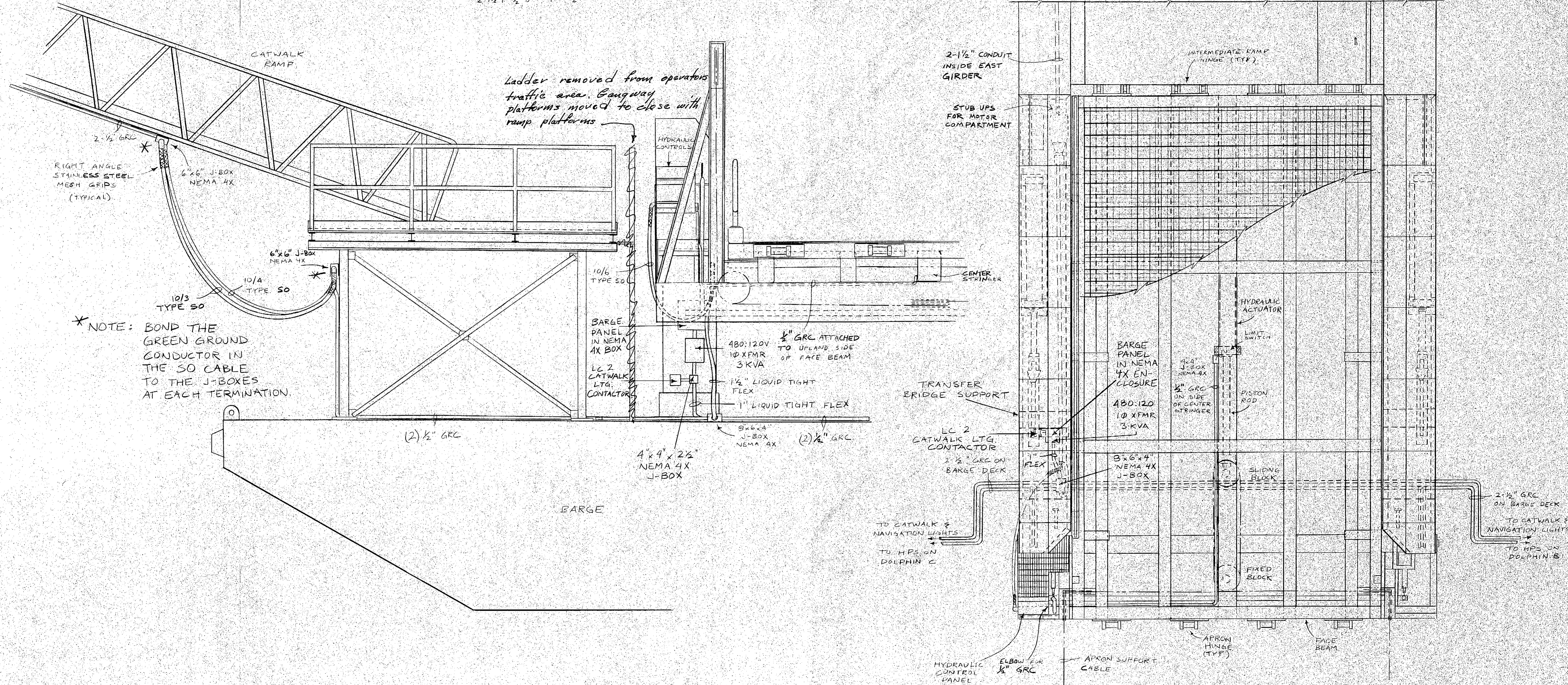
REVISION: AUG SERVICE DATE: 8/12/85 BY: TCO  
**T. E. NEUBAUER & ASSOCIATES**  
 CONSULTING ENGINEERS # 100,4601 JUNEAU, ALASKA

**BARGE END ELEVATION**

VIEW TOWARD UPLANDS



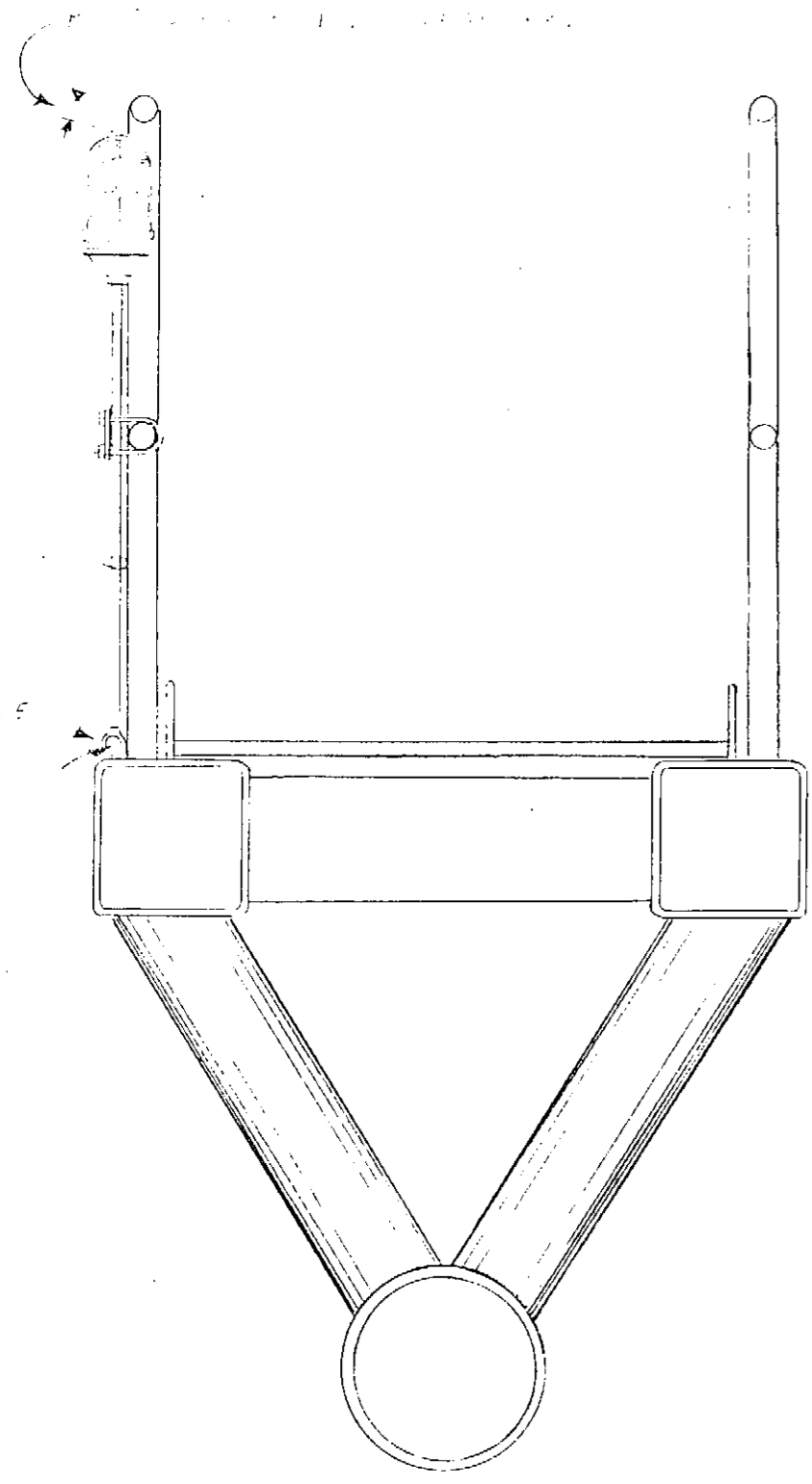
**INTERMEDIATE RAMP PLAN**



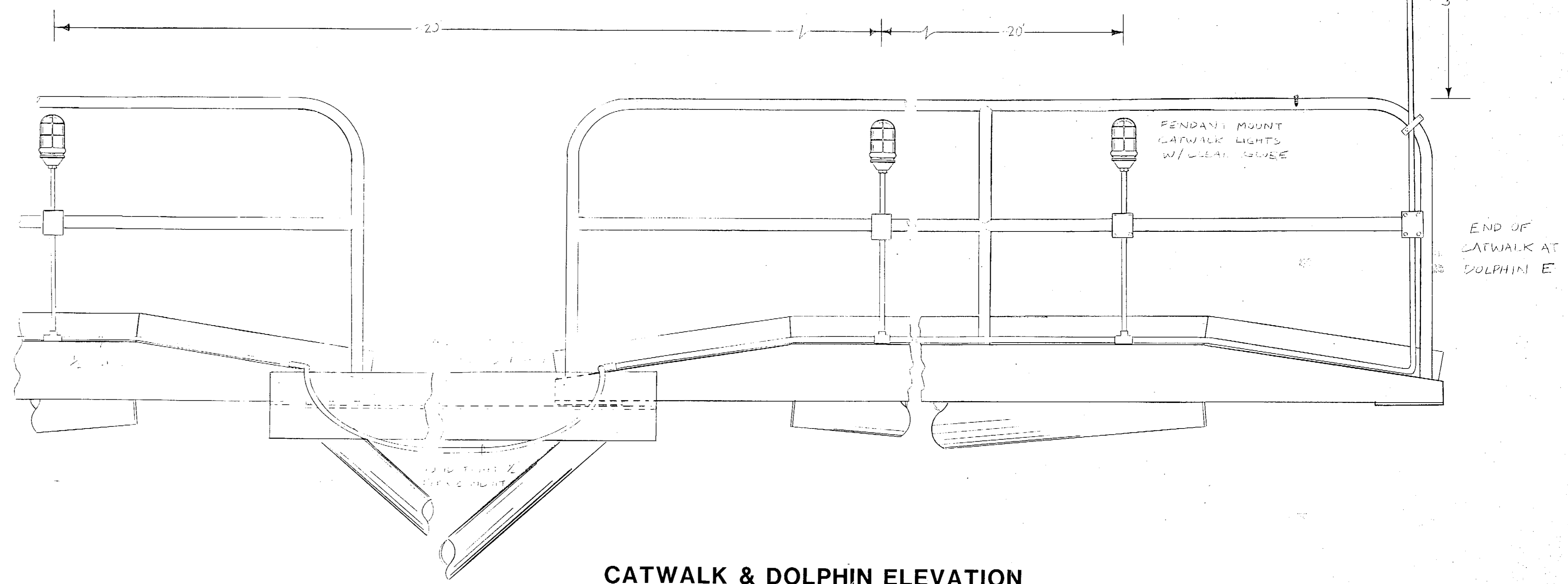
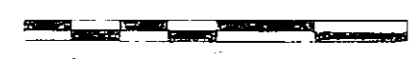
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
<b>ELECTRICAL CONDUIT DETAIL AT BARGE</b>			
DESIGNED	CHECKED	DRAWN TCO	DATE 7-25-84
PROJECT NUMBER A38502	SHEET 57		OF 67

**T. E. NEUBAUER & ASSOCIATES**  
CONSULTING ENGINEERS + 100.4601 JUNEAU, ALASKA

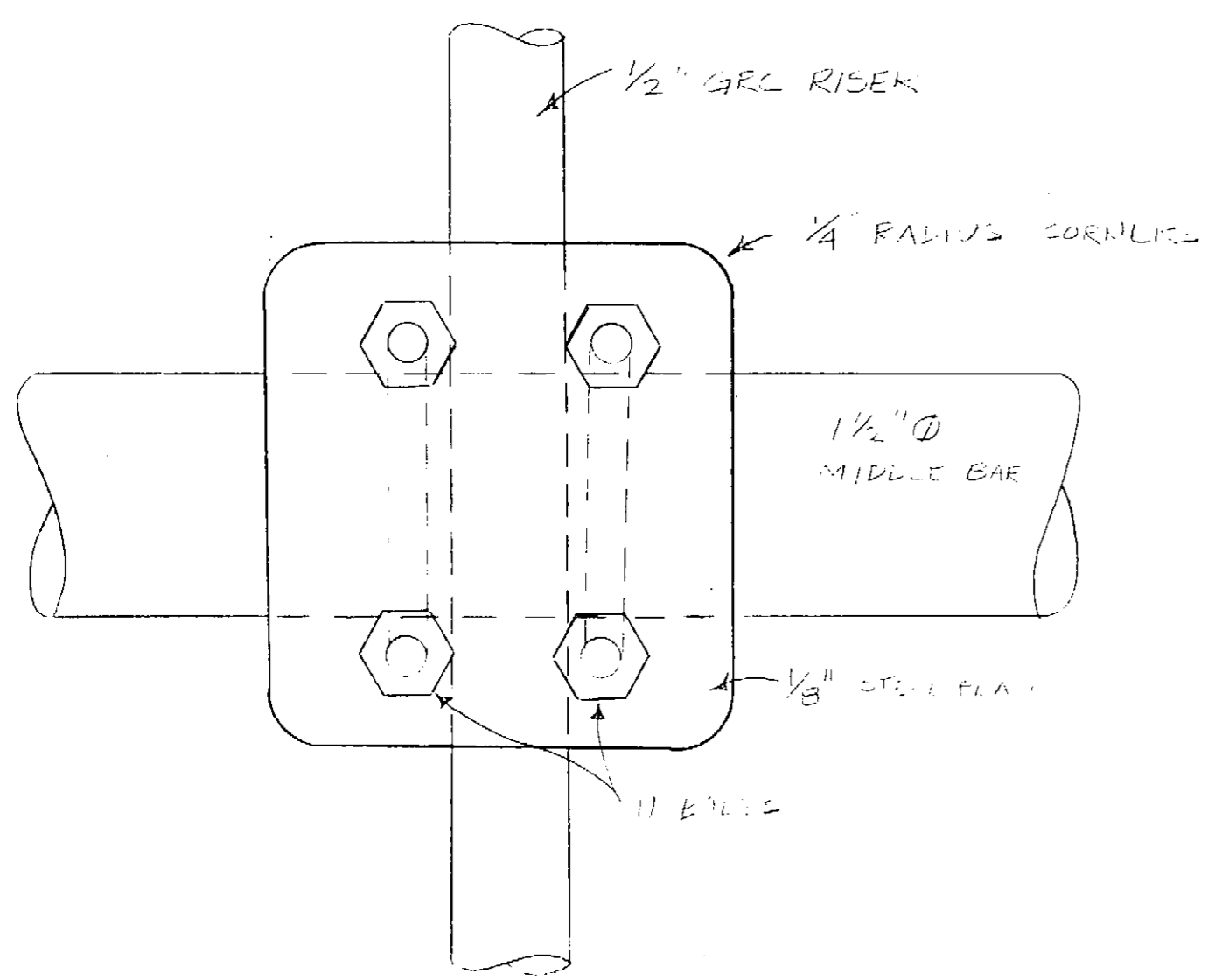
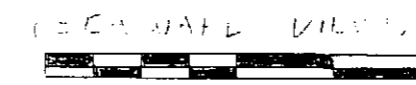
7-31-84



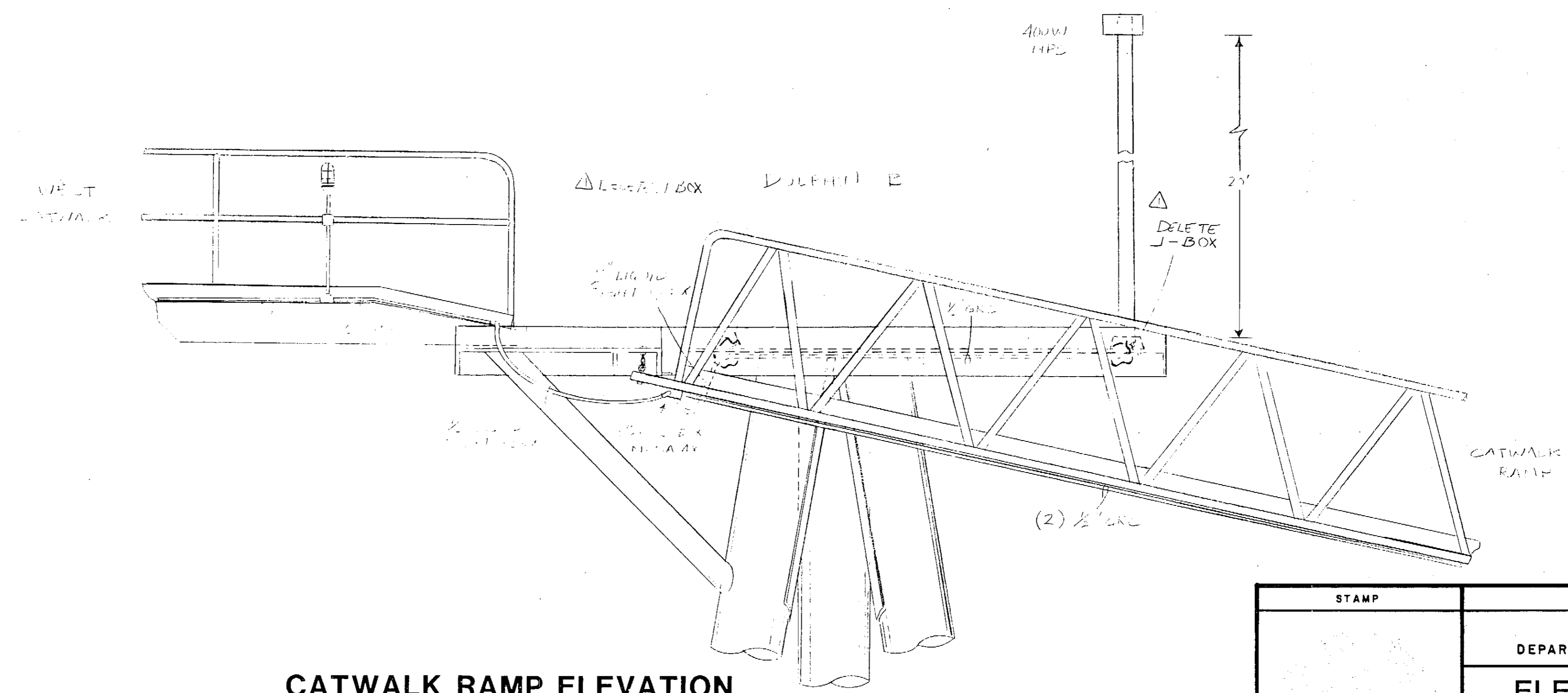
TYPICAL SECTION



CATWALK & DOLPHIN ELEVATION

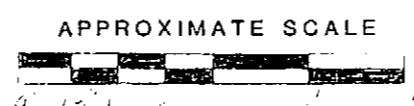


ATTACHMENT DETAIL



CATWALK RAMP ELEVATION

(SEEWARD VIEW)  
APPROXIMATE SCALE



**RECORD COPY**  
THESE DRAWINGS WERE UPDATED WITH INFORMATION AS SUPPLIED BY THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY.  
SS&R/T.E. NEUBAUER & ASSOCIATES  
DATE: 12/15/86 BY: R.S.S.

REVISION: RECORD COPY 12/15/86 R.S.S.  
**T. E. NEUBAUER & ASSOCIATES**  
CONSULTING ENGINEERS # 100.4601 JUNEAU, ALASKA

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
<b>ELECTRICAL CONDUIT DETAIL AT CATWALKS</b>			
DESIGNED	CHECKED	DRAWN TCO	DATE 7-30-84
PROJECT NUMBER A33502	SHEET 58		OF 62

### PANEL SCHEDULES

**PANEL DESIGNATION** TERMINAL BLDG.  
**LOCATION** ELECTRICAL ROOM  
**SERVING** RECEPTACLES, LIGHTS  
**208Y/120 VOLTS, 3 Ø, FOUR WIRE**  
**225 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	LOBBY LIGHTS	1.5	20	20	0.8	LOBBY LIGHTS	2		
3	UTILITY, ENTRY LIGHTS	0.6	20	20	1.1	LOBBY OUTLETS	4		
5	GFI OUTSIDE OUTLETS	0.5	20	20	0.5	FRIDGE REFR. OUTLETS	6		
7	HALL LIGHTS	0.4	20	20	0.8	OUTSIDE LIGHTS, E. WALL	8		
9	FRIDGE	1.2	20	20	1.2	OUTSIDE LIGHTS	10		
11	OFFICE LIGHTS	0.5	20	20	0.9	ENTRY OUTLETS	12		
13	EXIT SIGNS	0.1	20	20		SPARE	14		
15	SPARE				1.5	RESTROOM LIGHTS, C.O.	16		
17	HEAT TAPE	0.1	20	20	4.0	WATER HEATER	18		
19	SPARE				2		20		
21							22		
23							24		
25							26		
27							28		
29							30		

EXISTING

**PANEL DESIGNATION** OFFICE PANEL  
**LOCATION** TERMINAL OFFICE  
**SERVING** DUCK MOTORS, LIGHTS  
**208Y/120 VOLTS, 3 Ø, FOUR WIRE**  
**100 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	BRIDGE			50	2	APRON RAMP			4
3				7	4				6
5	BRIDGE LIGHTS			3	8	DUCK LIGHT			10
7	FREEZER TRUCK			20	12	RANGE LIGHT			14
9	OUTLET			40	16	PARKING LOT LIGHTS			18
11				7	20	PARKING LOT LIGHT			22
13	3 SPACES			3	24	OFFICE OUTLETS			26
15				20	28	2 SPACES			30
17				20					
19				20					

EXISTING

REMOVE THESE CIRCUITS  
REMOVE CONDUIT TO FREEZER TRUCK OUTLET

**PANEL DESIGNATION** OFFICE PANEL  
**LOCATION** TERMINAL OFFICE  
**SERVING** GEN. BLDG., PKG. LITES  
**208Y/120 VOLTS, 3 Ø, FOUR WIRE**  
**100 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	Y-4H OUTLET			3	2	5 SPACES			4
3				7	6				8
5				7	10				12
7				20	14	PARKING LOT LIGHTS			16
9				20	18	PARKING LOT LIGHT			20
11				1.0	22	OFFICE OUTLETS			24
13				0.5	26	2 SPACES			28
15				0.4	30				
17									
19									

MODIFIED

**PANEL DESIGNATION** DOCK  
**LOCATION** GENERATOR BLDG.  
**SERVING** DOCK LIGHTS, HYDRAULICS  
**480Y/277 VOLTS, 3 Ø, FOUR WIRE**  
**125 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	APPROACH LIGHTS	#10	3.5	20	2	MAIN BREAKER			4
3	CATWALK & NAV. LITES		2.7	7	4				6
5				3	8	6 SPACES			10
7	HYDRAULIC PUMP	#6	15	30	12				14
9				7	16				18
11				3	20				22
13	3 SPACES				24				26
15					28				30
17									

NEW

**PANEL DESIGNATION** GEN. BLDG. PNL.  
**LOCATION** GENERATION BUILDING  
**SERVING** LIGHT, POWER & MISC  
**208Y/120 VOLTS, 1 Ø, THREE WIRE**  
**100 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	LIGHTS & OUTLETS	0.7	20	20	2	MAIN BREAKER			4
3	BLOCK HEATER	2.0	20	20	4				6
5				12	6	HALON FIRE CONTROL			8
7	2 SPACES			20	8	FULL PUMP & LOUVERS			10
9				20	10	2000 WATT BASE BOARD HEATER			12
11									

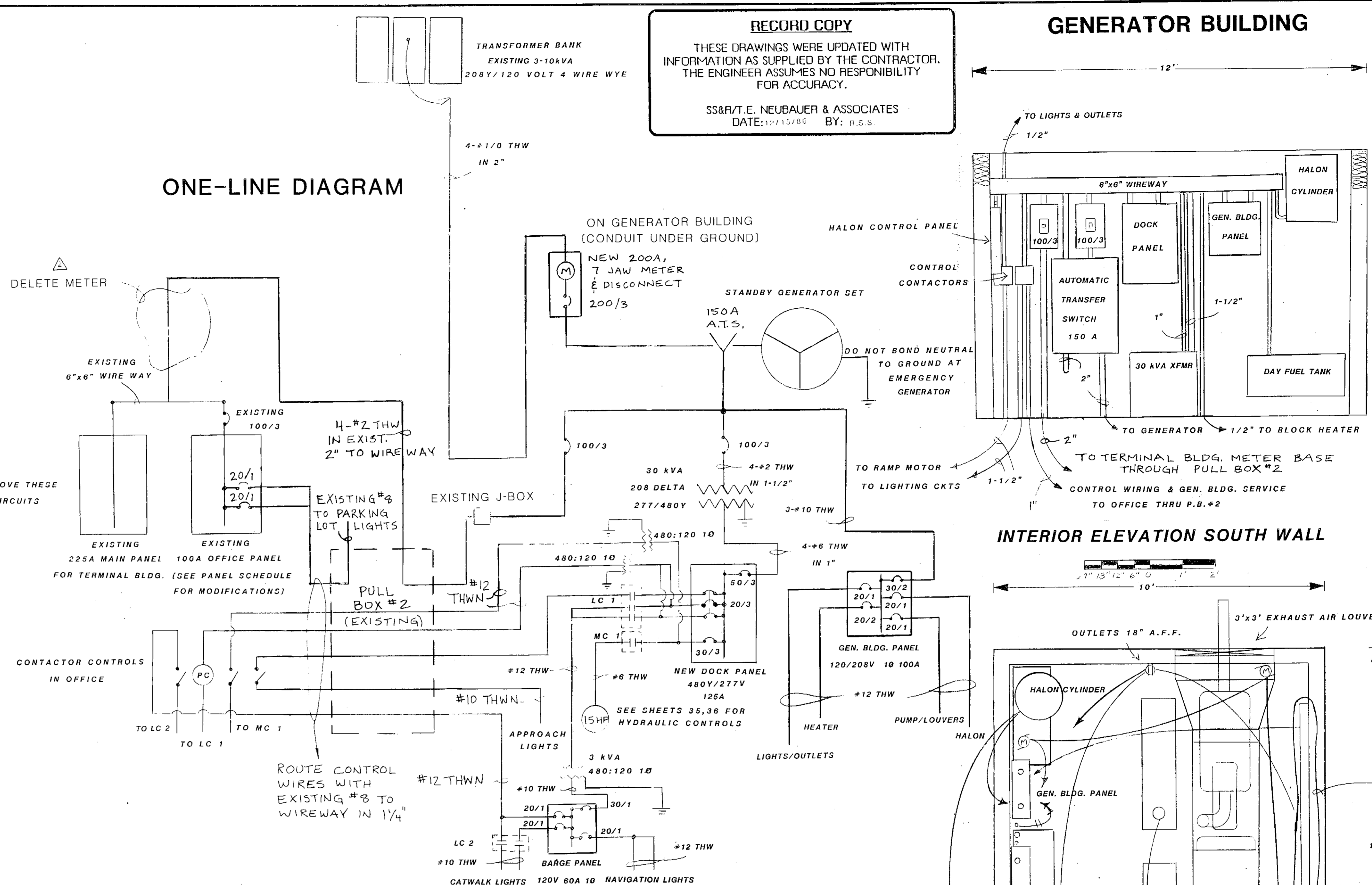
NEW

**PANEL DESIGNATION** BARGE  
**LOCATION** BARGE  
**SERVING** CATWALK & NAV LIGHTS  
**120 VOLTS, 1 Ø, 2 WIRE**  
**100 AMP WITH MAIN LUG ONLY**

CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP	CRKT NO.	DESCRIPTION	WIRE SIZE	KVA (HP)	AMP TRIP
1	CATWALK LIGHTS	#10	1.2	20	2	MAIN BREAKER			4
3	CATWALK LIGHTS	#10	1.3	20	4	NAVIGATION LIGHTS			6
5					6				8
7									

NEW

### ONE-LINE DIAGRAM



### EQUIPMENT SCHEDULE

- LC 1 SQUARE D CLASS 8903 3 POLE 20A CONTACTOR ELECTRICALLY HELD WITH CONTROL CIRCUIT TRANSFORMER
- LC 2 SQUARE D CLASS 8903 20A 2 POLE CONTACTOR, ELECTRICALLY HELD
- MC1 SQUARE D CLASS 8630, 3 POLE, WYE-START/DELTA-RUN STARTER NEMA SIZE 1 WITH CONTROL CIRCUIT TRANSFORMER "CLOSED TRANSITION" SEE SHEET 35

### LOAD CALCULATIONS

DESCRIPTION	KVA	VOLTS	PHASES
DOCK PANEL	23.6	260	3
GENERATOR BLDG. PANEL	4.0	208	1
TERMINAL BLDG. PANELS	16.0	115	3
<b>TOTAL</b>	<b>43.6</b>	<b>115</b>	<b>3</b>

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

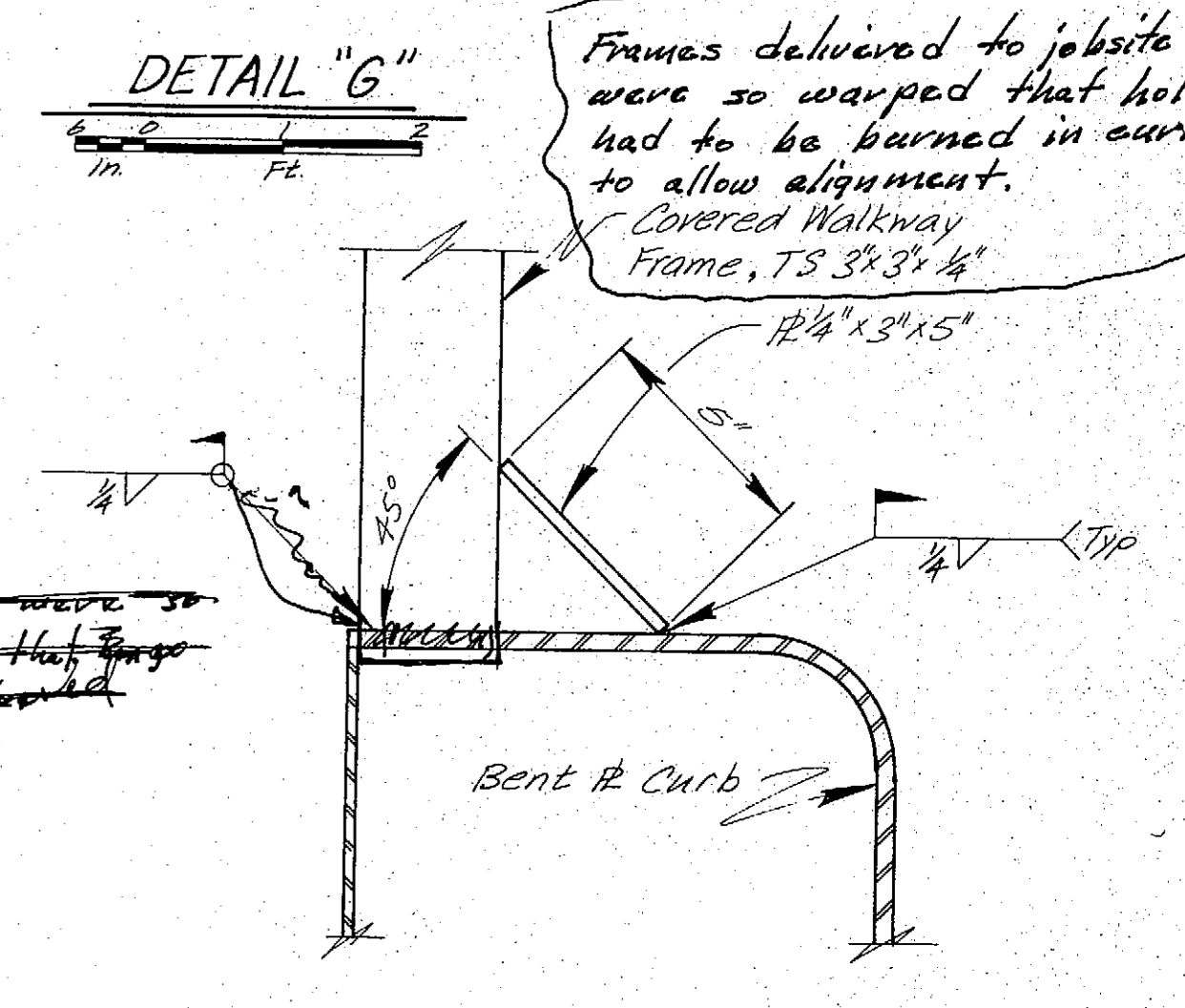
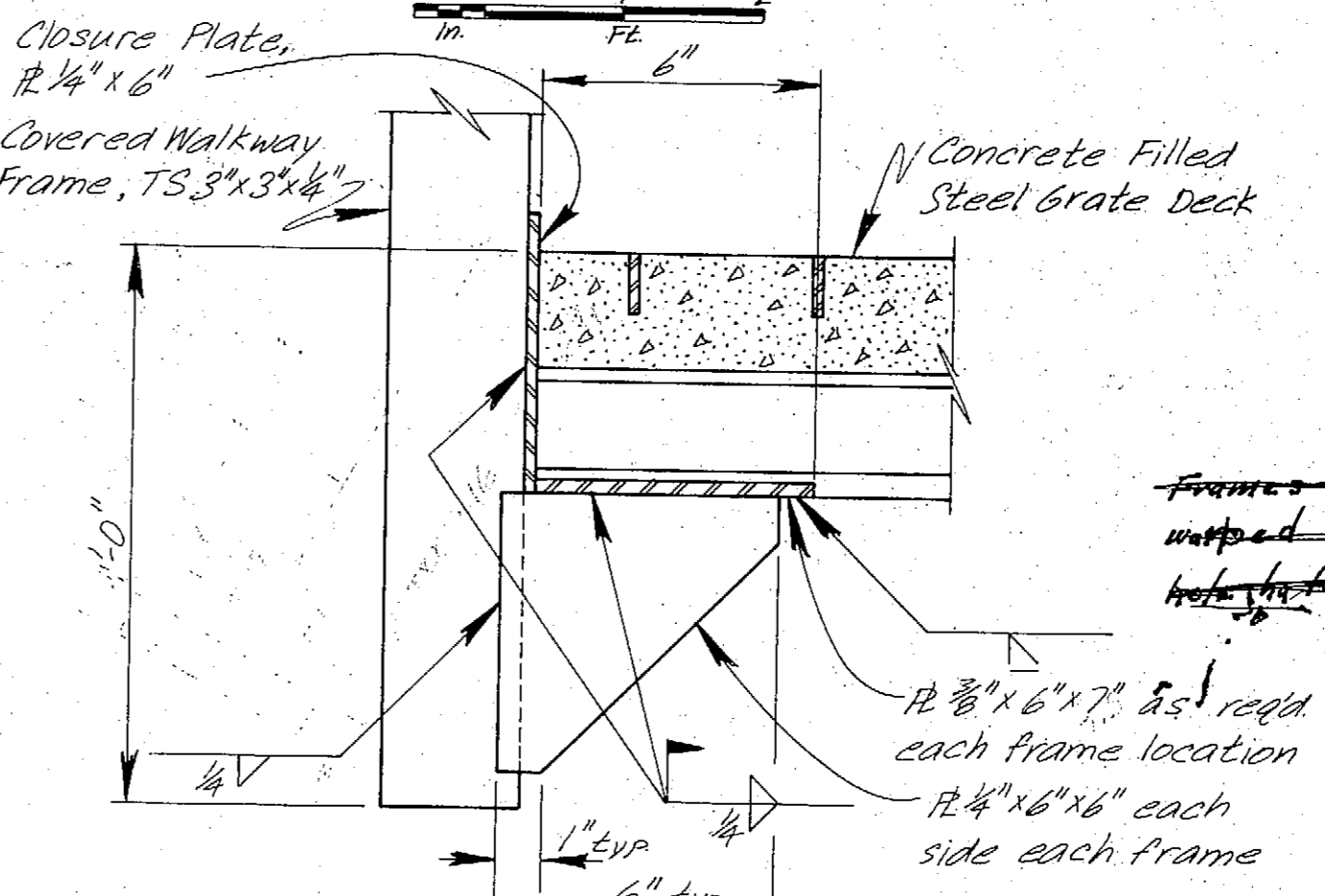
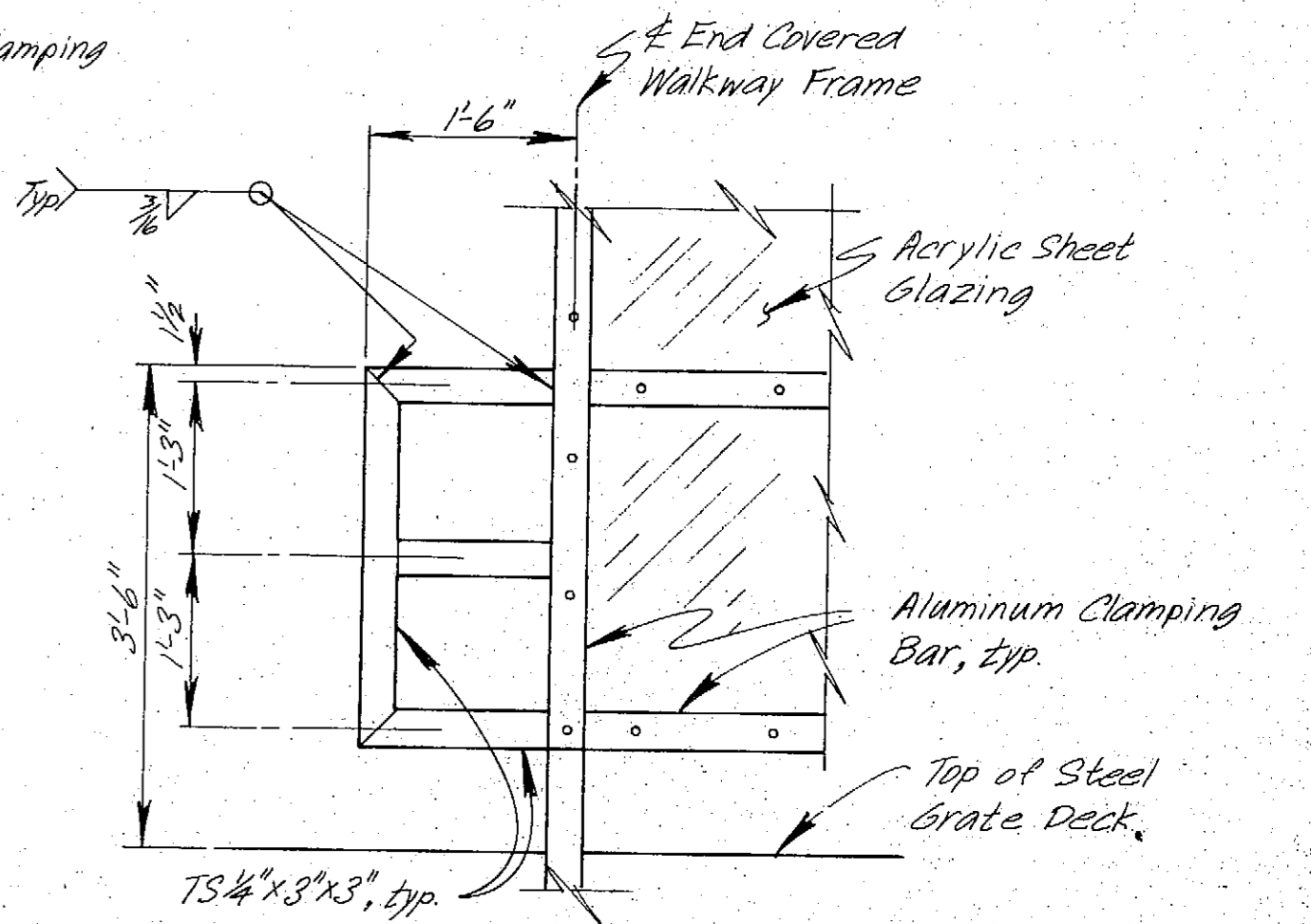
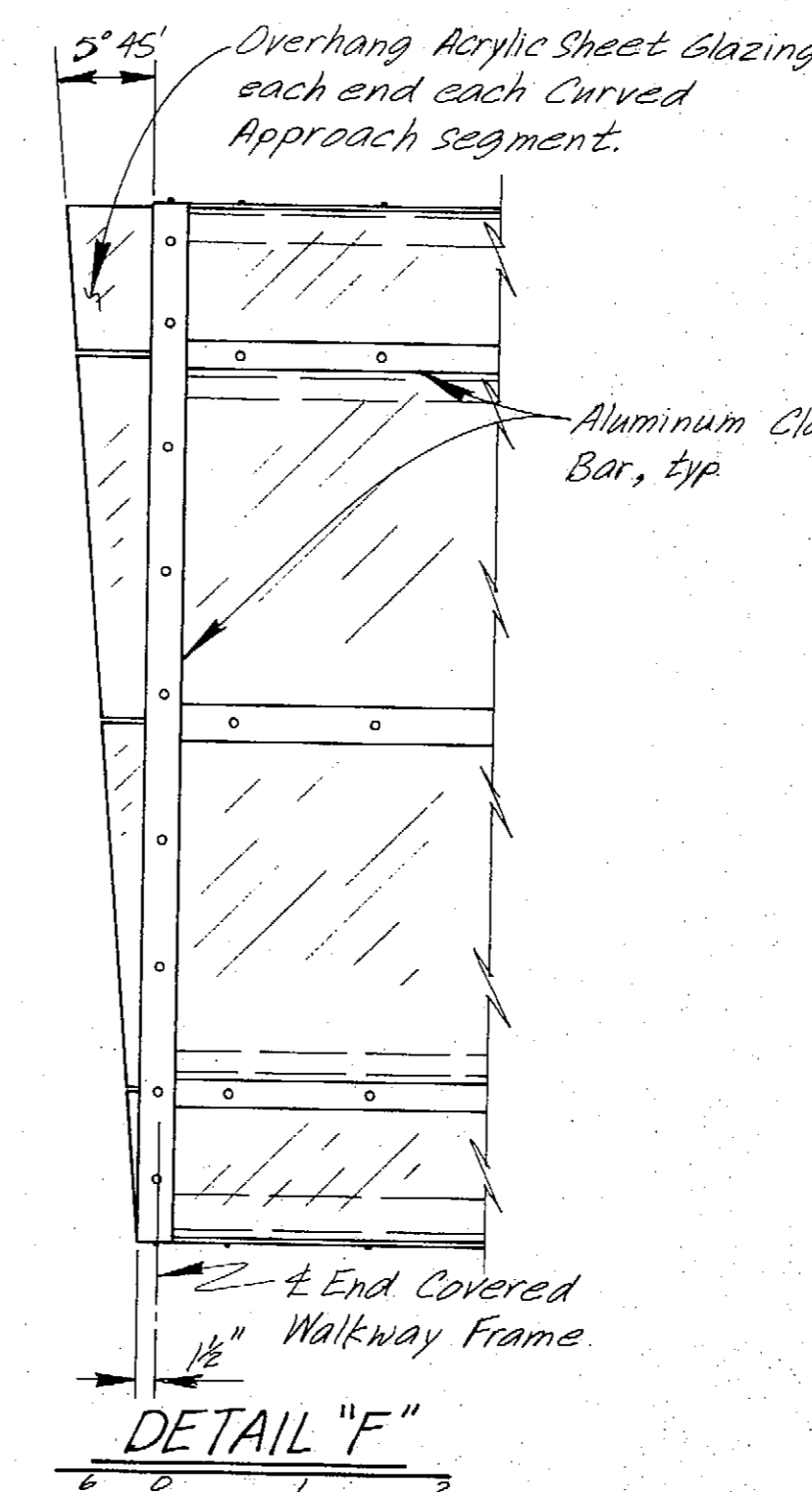
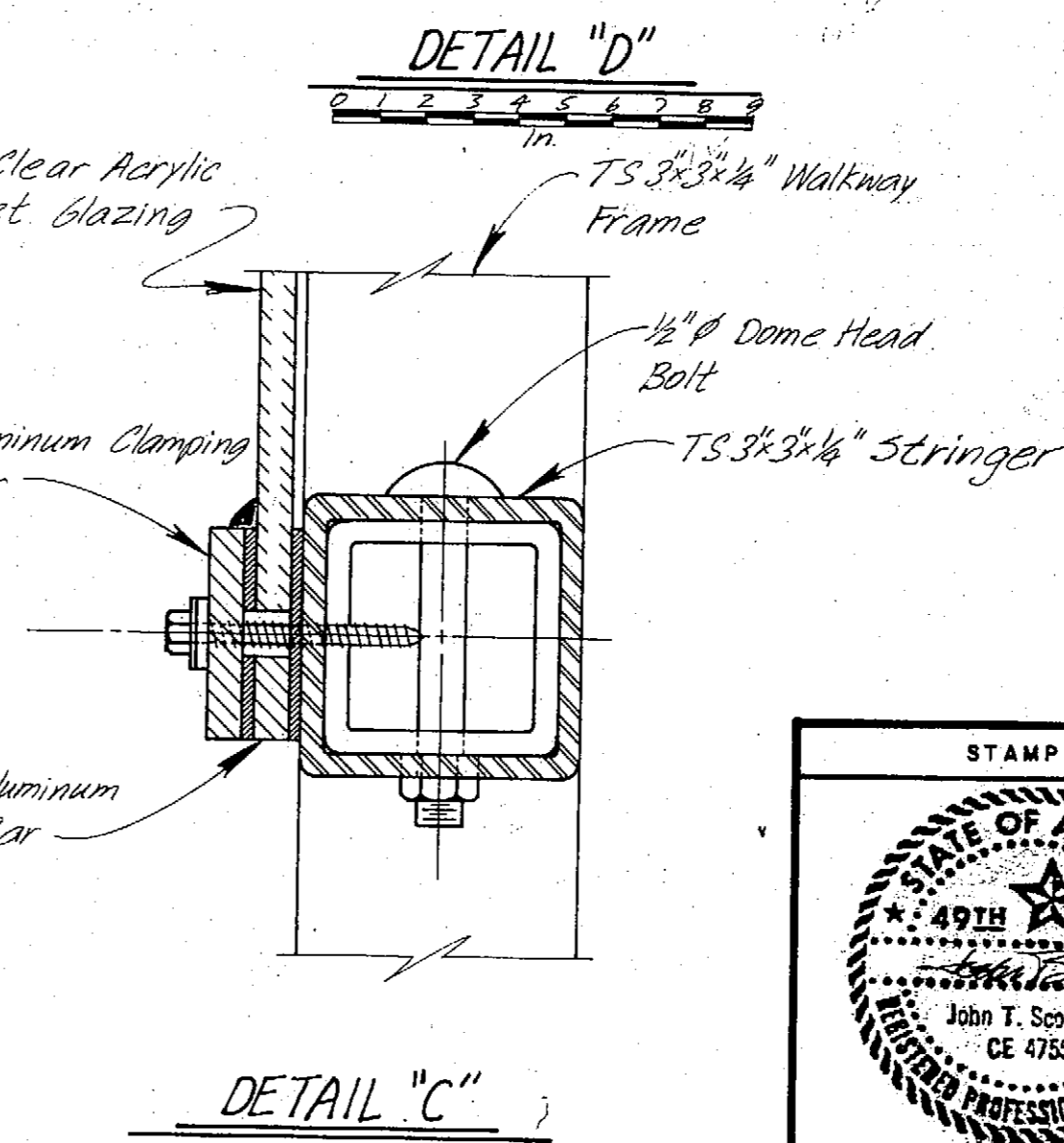
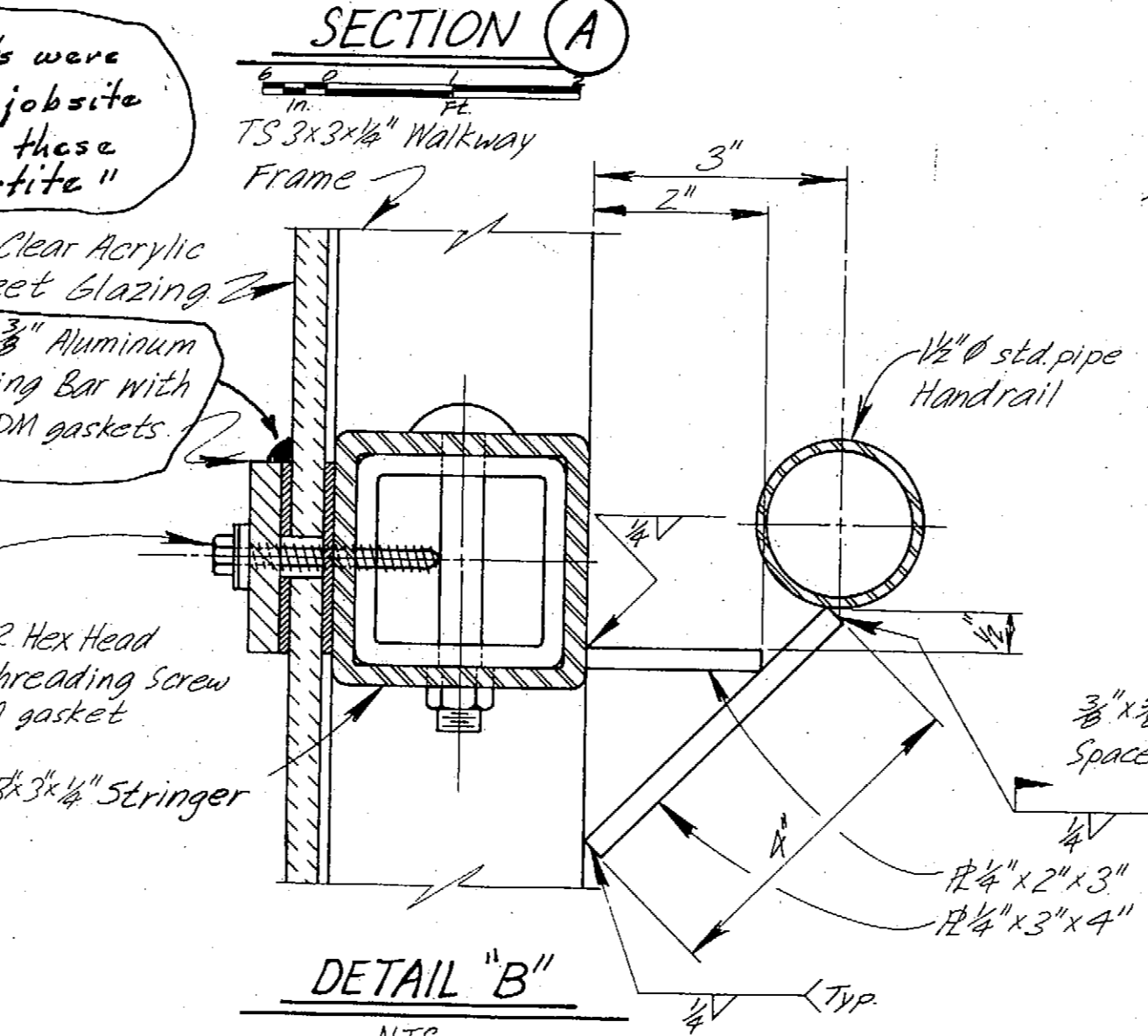
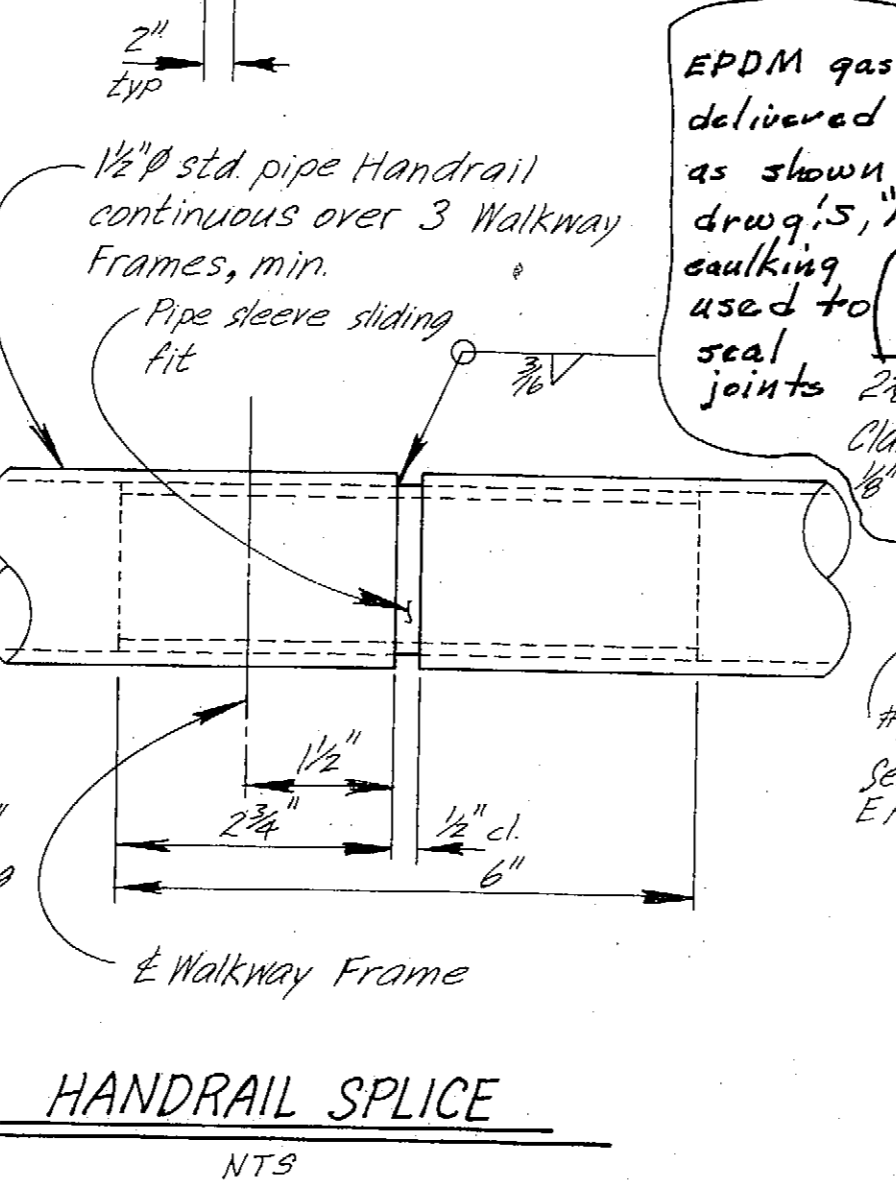
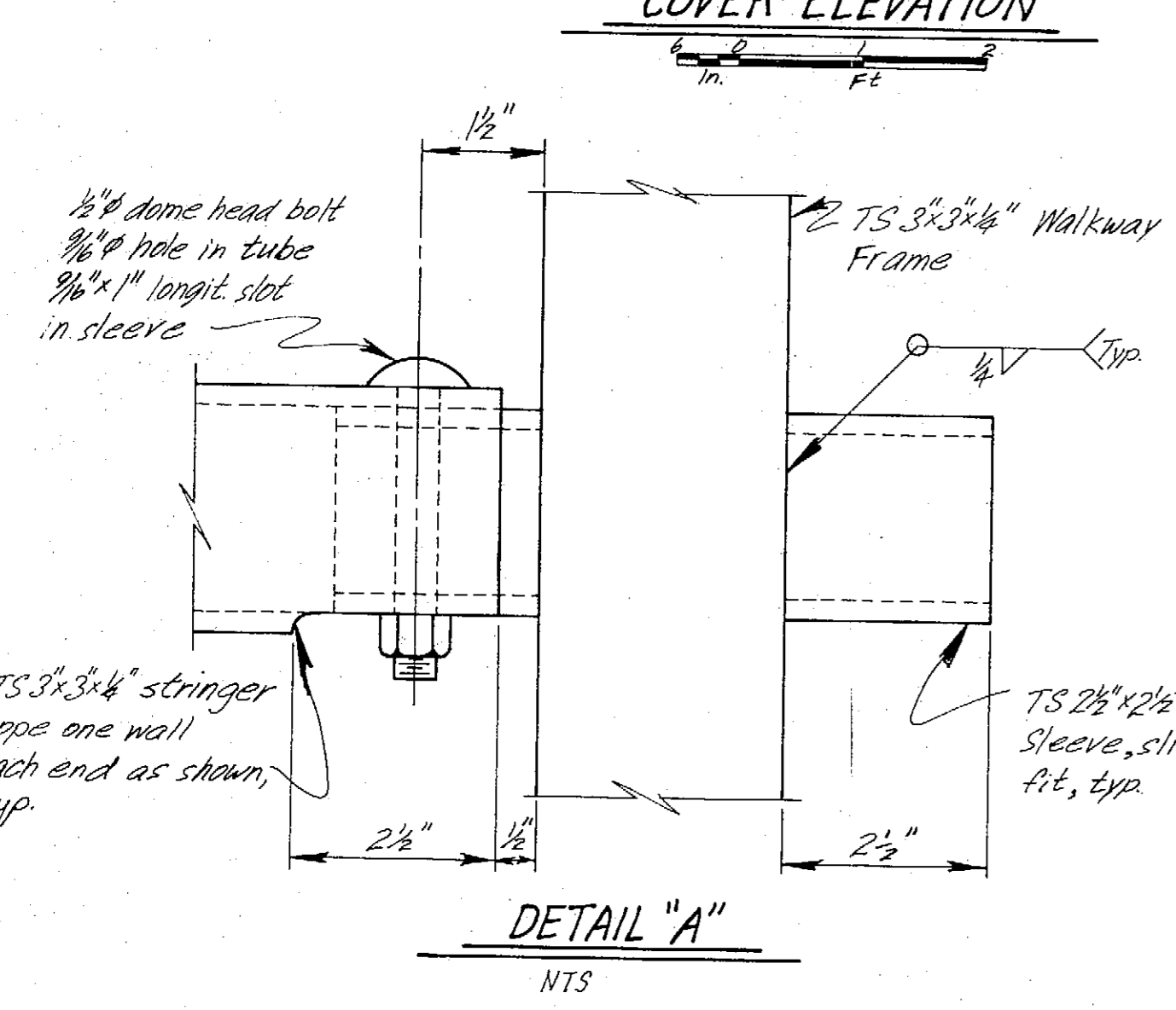
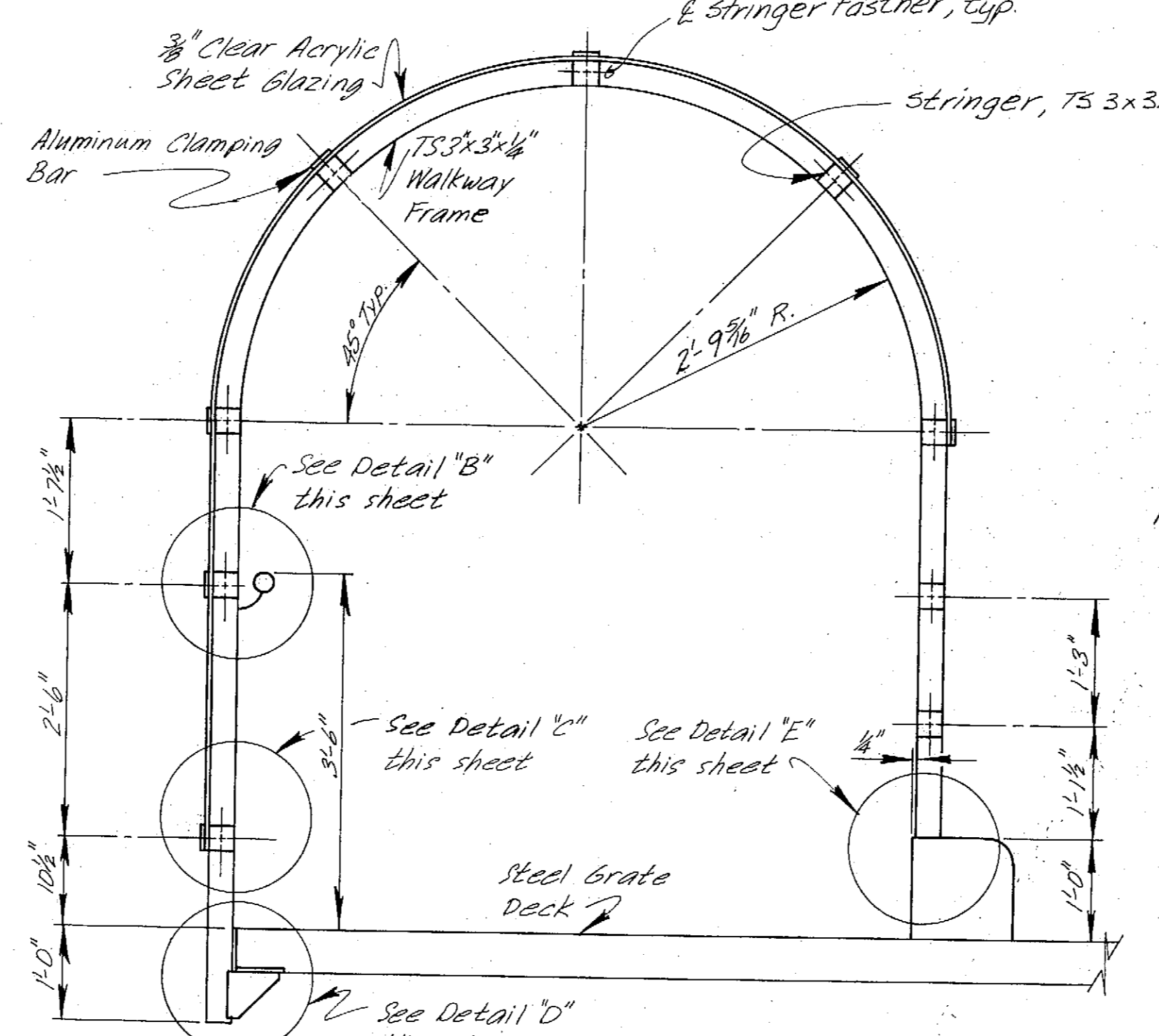
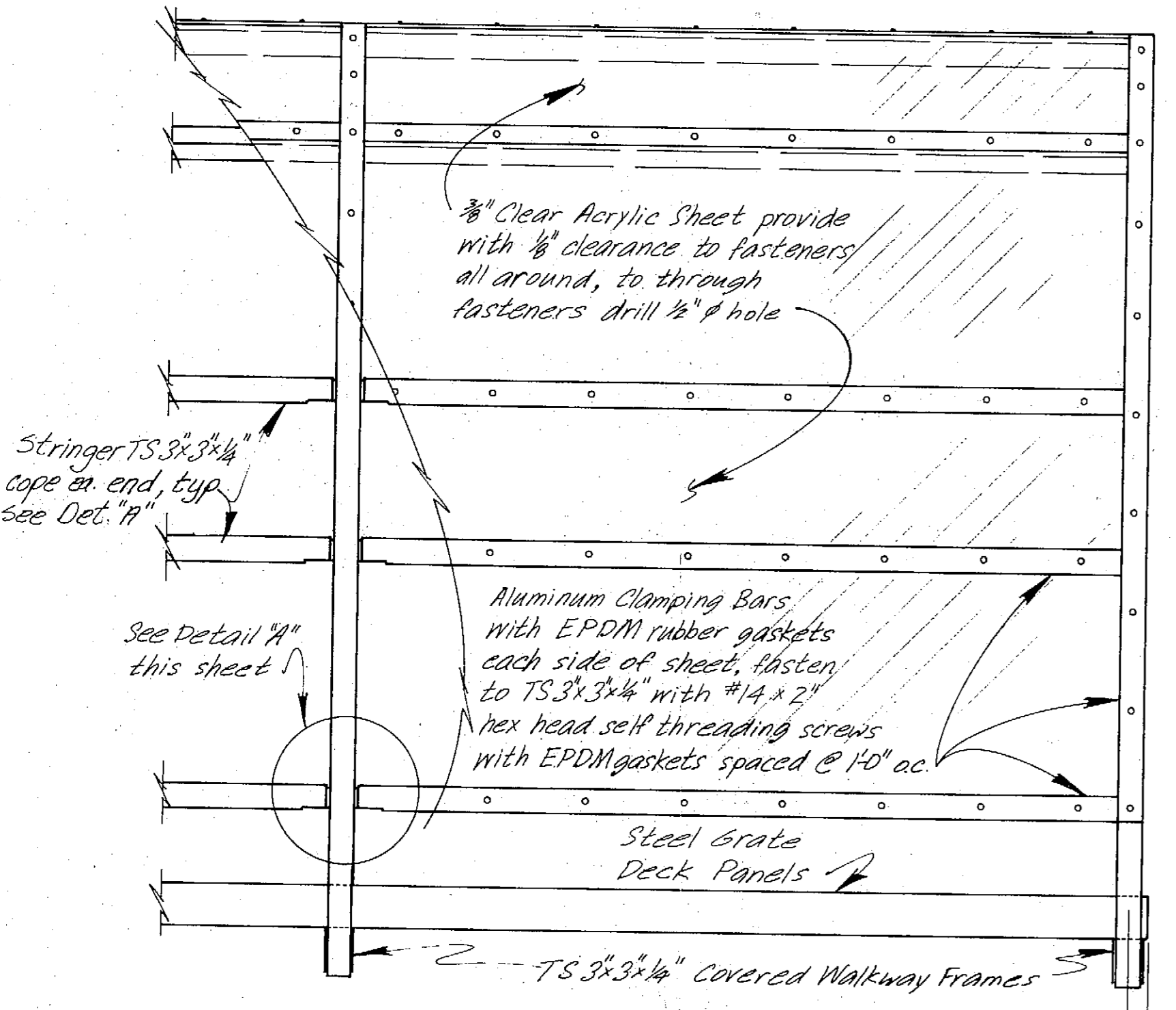
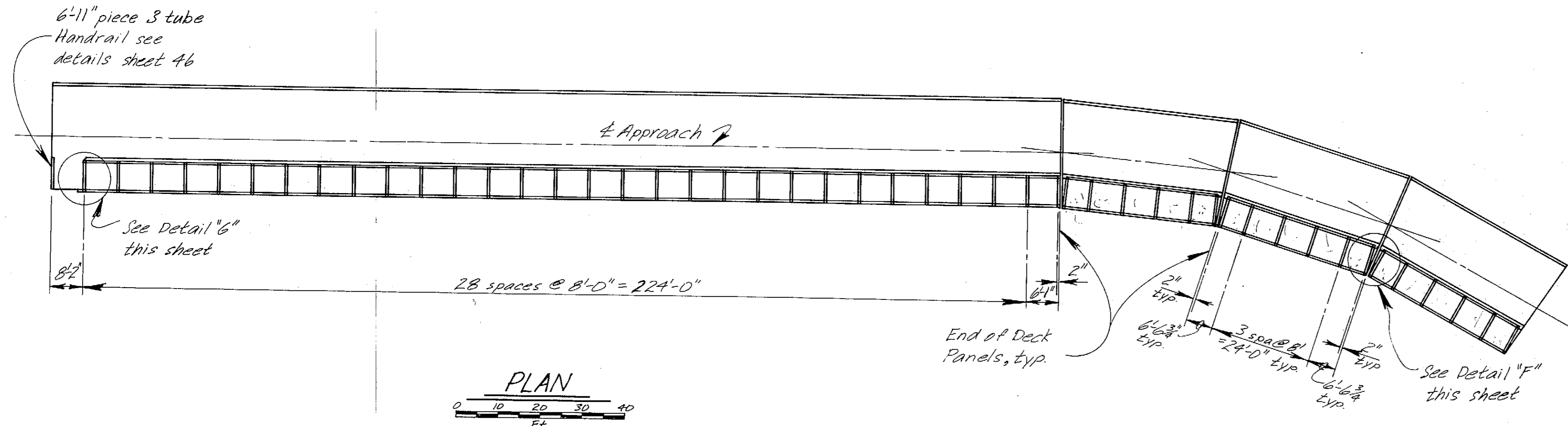
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**ELECTRICAL POWER CIRCUITS & GENERATOR BLDG. LAYOUT**

DESIGNED: \_\_\_\_\_ CHECKED: \_\_\_\_\_ DRAWN: TCO DATE: 7-11-84  
 PROJECT NUMBER: A38502 SHEET: 59 OF 62

T. E. NEUBAUER & ASSOCIATES  
 CONSULTING ENGINEERS # 100.4601 JUNEAU, ALASKA

4-31-84

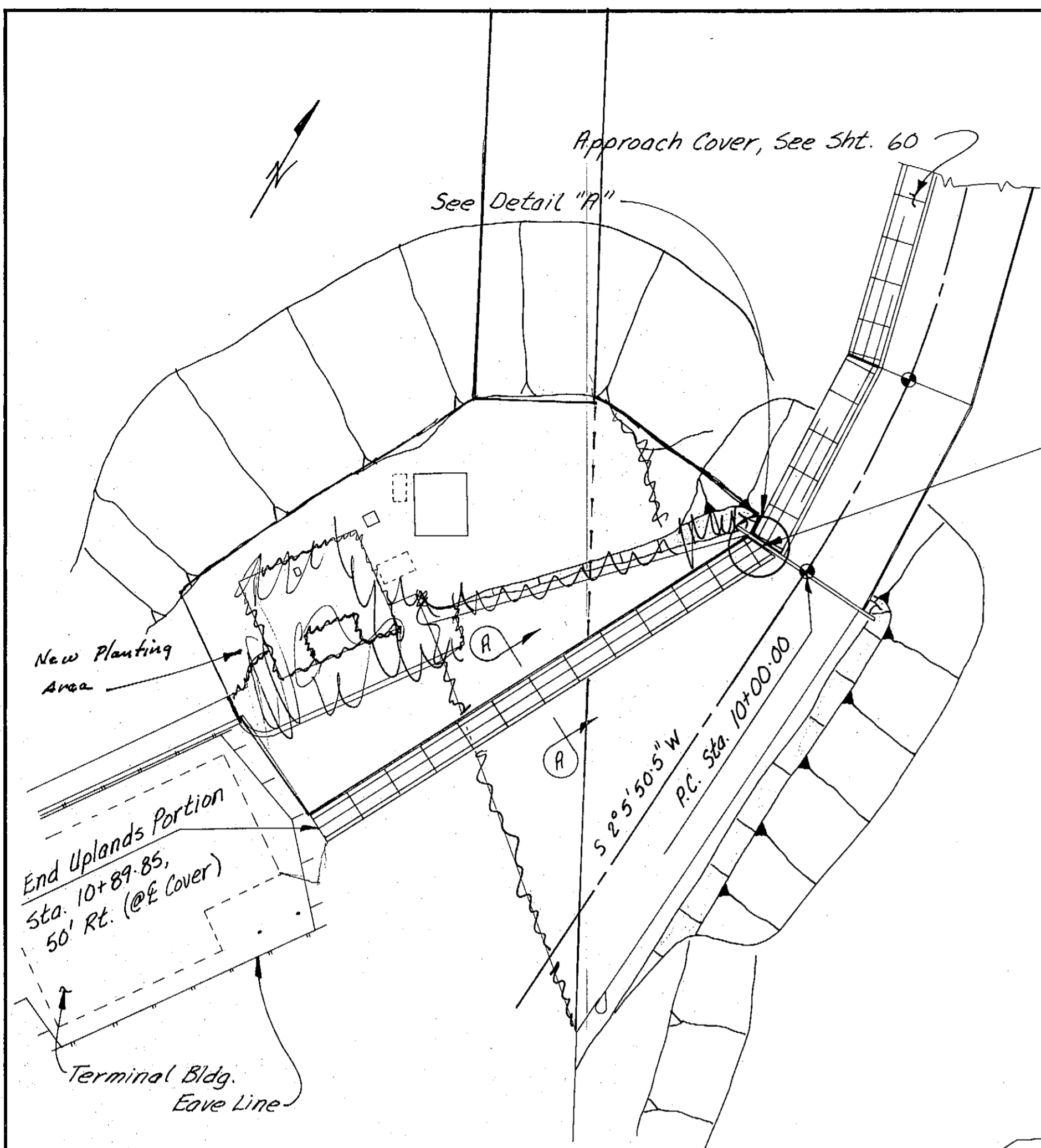


**As Built Note:**  
 Frames were cold rolled with one small brace tacked transversely, when galvanized each frame warped differently causing erection problems in field.

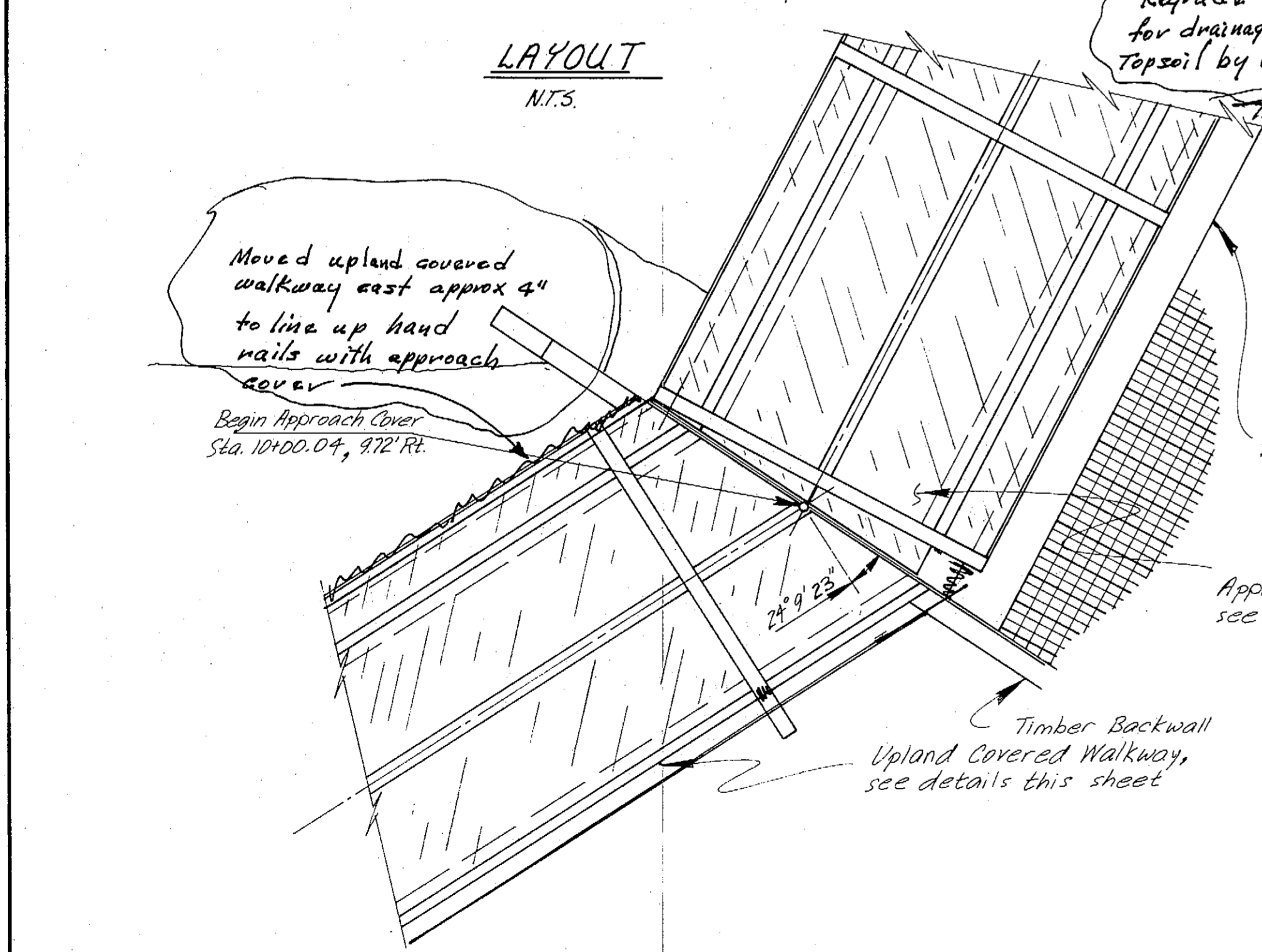
**NOTES:**

1. Work this sheet with sheet's No's 46 and 51
2. Galvanize all ferrous metal components and fasteners after fabrication. *was built and sealed w/ Mortite caulking*
3. Glazing system shown is U.S. manufactured by CVRD Industries. Others may be submitted for approval.
4. Alternate "B" shown this sheet for Alternate "A" if it was built, awarded, see details sheets 43, 46, 47 & 51

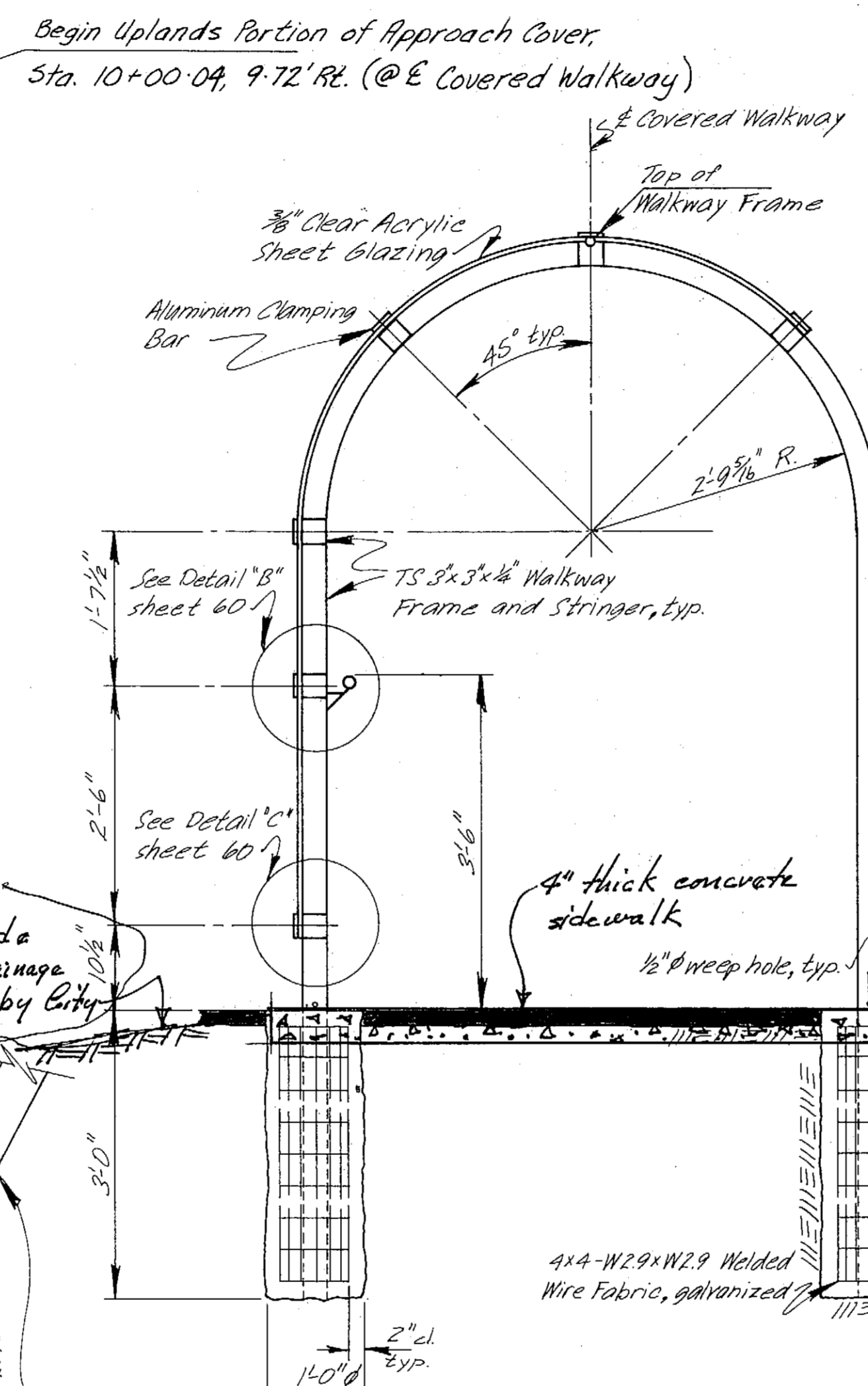
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Petersburg		Alaska		
COVERED WALKWAY				
DESIGNED <i>LVB</i>	CHECKED <i>JS</i>	DRAWN <i>LVB</i>	DATE <i>12/84</i>	
PROJECT NUMBER <i>A38502</i>	SHEET <i>60</i>		OF <i>62</i>	



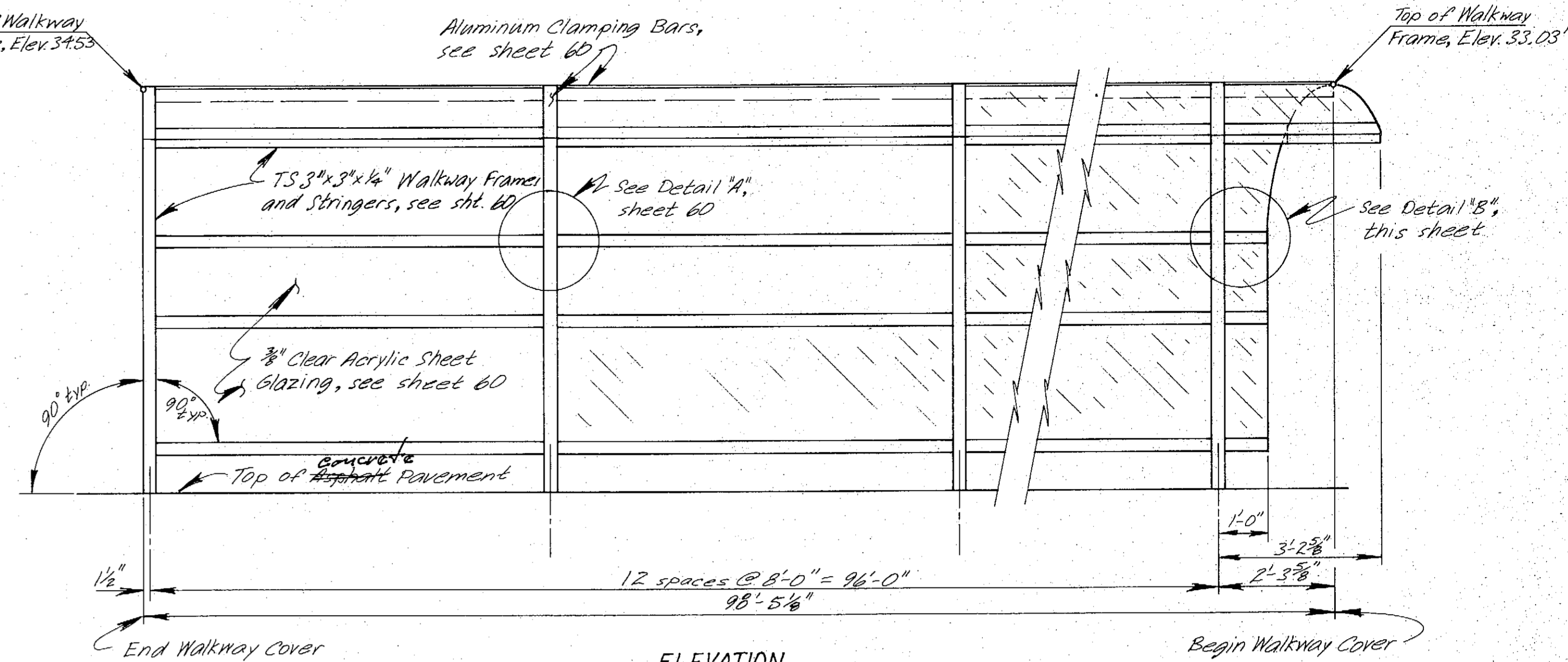
LAYOUT  
N.T.S.



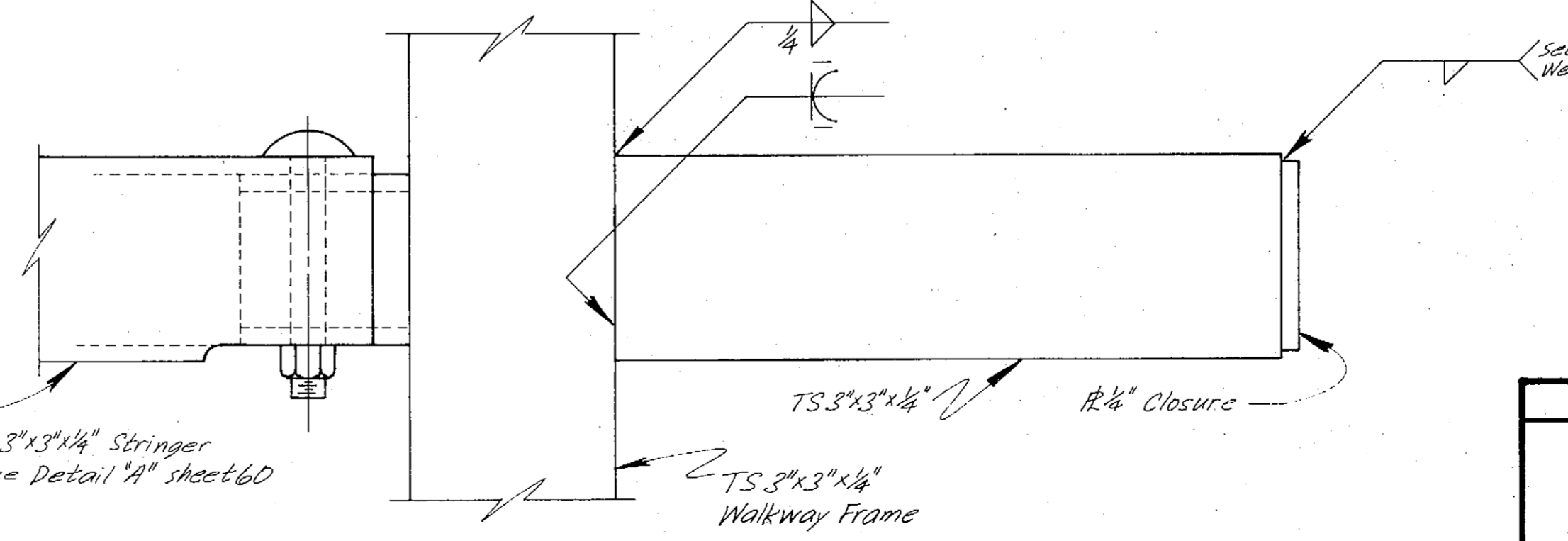
DETAIL "A"  
1 2 3  
In. Ft.



SECTION A  
1 2 3 0 1 2  
In. Ft.



ELEVATION  
1 2 3 0 1 2 3  
In. Ft.



DETAIL "B"  
N.T.S.

Notes:  
1. Galvanize all ferrous metal components and fasteners after fabrication. *was built & sealed with "Mortite" caulking.*  
2. Glazing system shown is *not* manufactured by CYRE Industries. Others may be submitted for approval.  
3. Should Alternate "B", shown this sheet, *not* be awarded, was built against railing as shown on sheet 52.

AS-BUILT

STAMP  2-25-85	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Petersburg		Alaska	
UPLAND COVERED WALKWAY				
DESIGNED <i>JS</i>	CHECKED <i>LJB</i>	DRAWN <i>LVB</i>	DATE <i>1/85</i>	
PROJECT NUMBER <i>A38502</i>	SHEET <i>61</i>		OF <i>62</i>	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-4(15)	1984	1	1

**BASIC MATERIALS SYMBOLS**

	Organic		Silt
	Cobbles; Boulders		Clay
	Gravel		Mixed Sand, Gravel, Silt and Concrete Fill
	Sand		

Note: Significant soil mixtures are shown by combining soil symbols

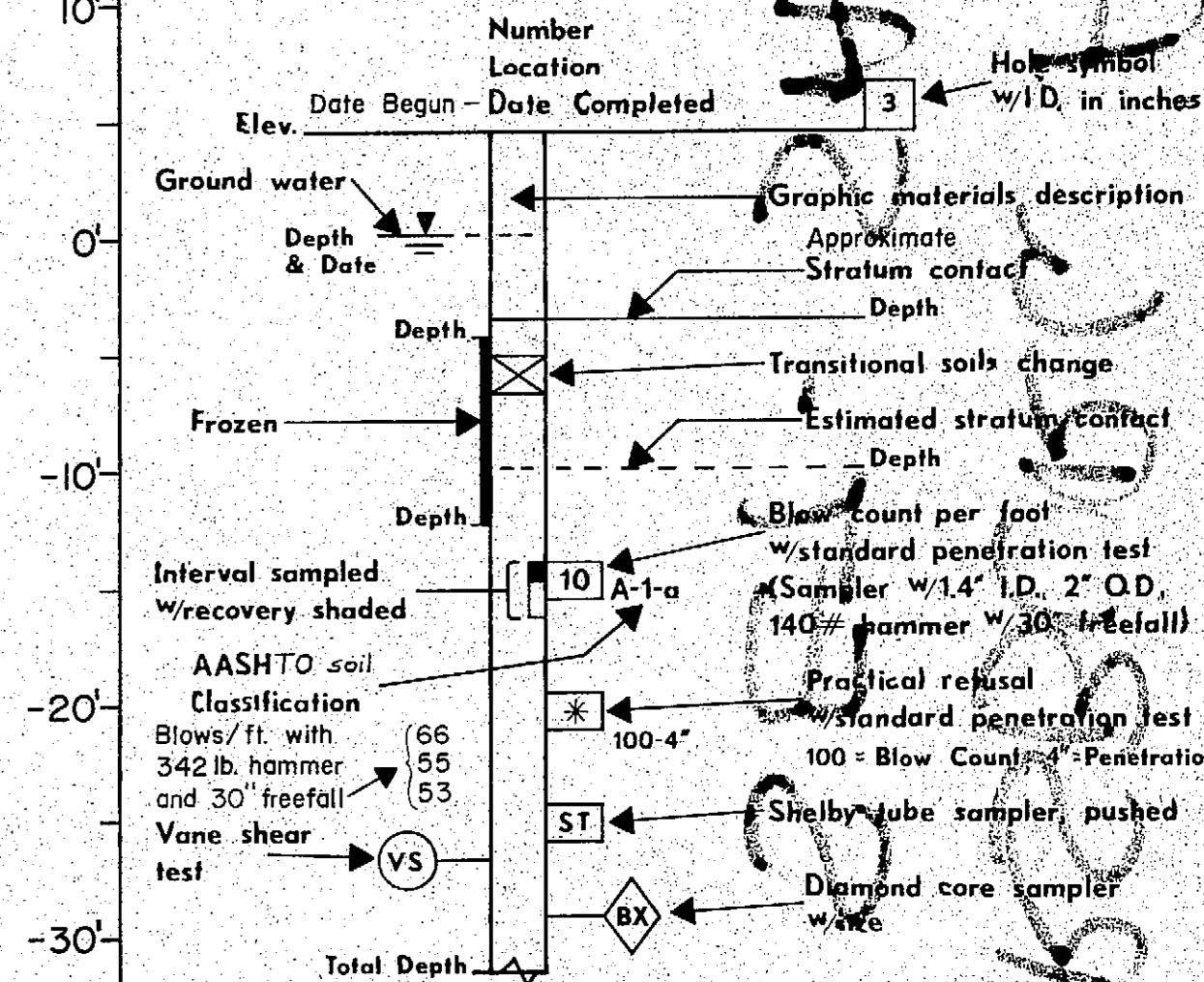
**TYPICAL TEST HOLE SYMBOLS**

	Location of any hole
	Rotary
	Auger
	Diamond Core
	Penetrometer

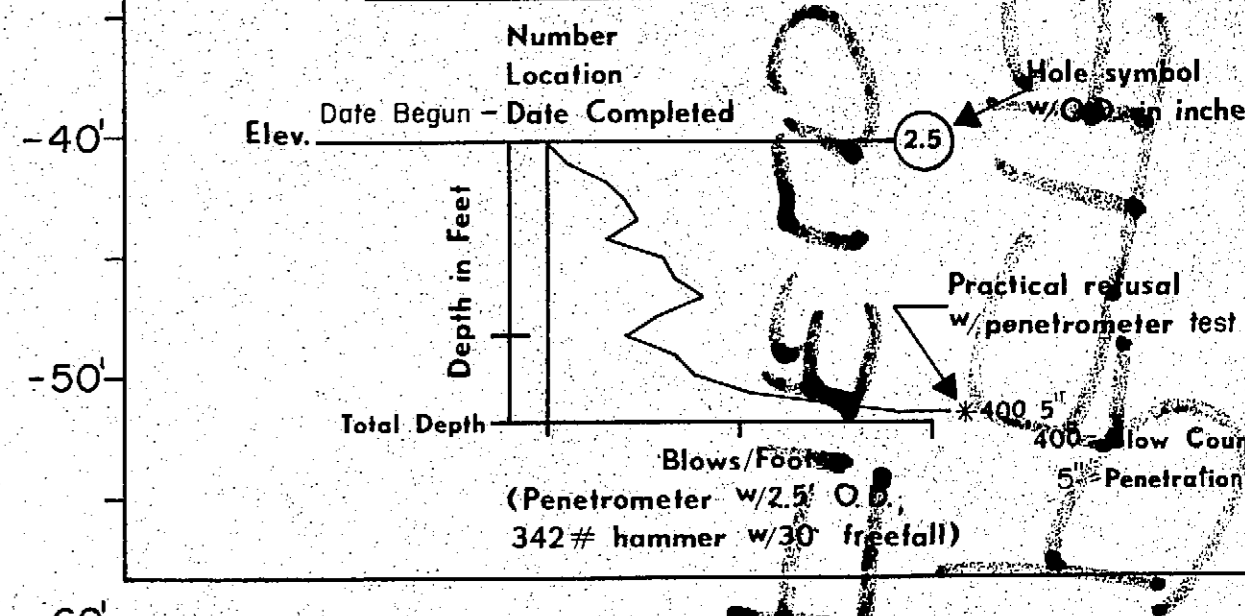
**RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION**

GRANULAR		COHESIVE	
Blows/ft	Rel. Density	Blows/ft	Consistency
0 - 5	Very Loose	2	Very Soft
6 - 10	Loose	2 - 4	Soft
11 - 20	Firm	5 - 8	Medium
21 - 35	Compact	9 - 15	Stiff
36 - 50	Dense	16 - 30	Very Stiff
51 - 70	Very Dense	31 - 60	Hard
71 +	Very Dense	61 +	Very Hard

**TYPICAL TEST HOLE LOG**



**TYPICAL PENETROMETER TEST LOG**

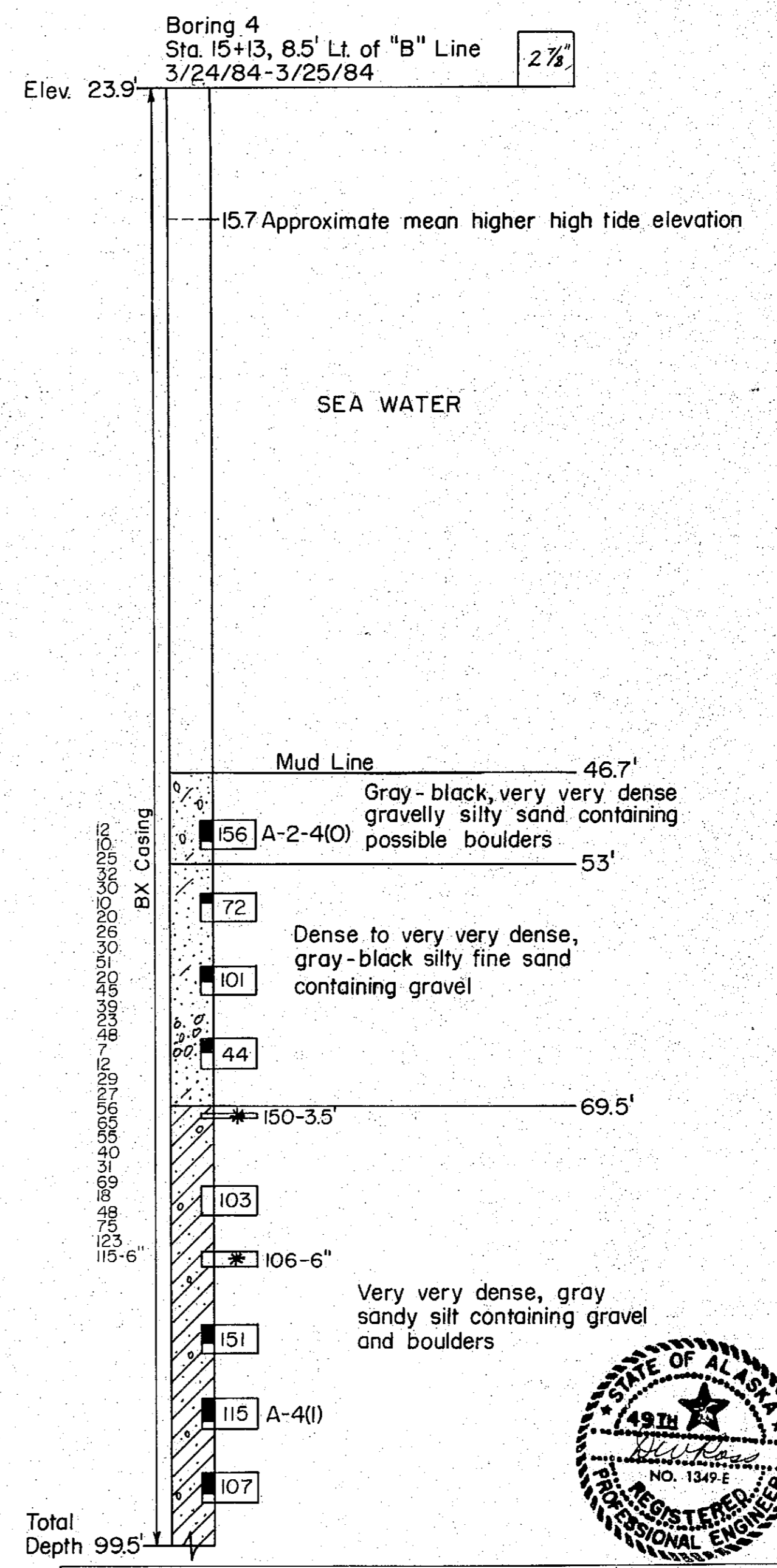
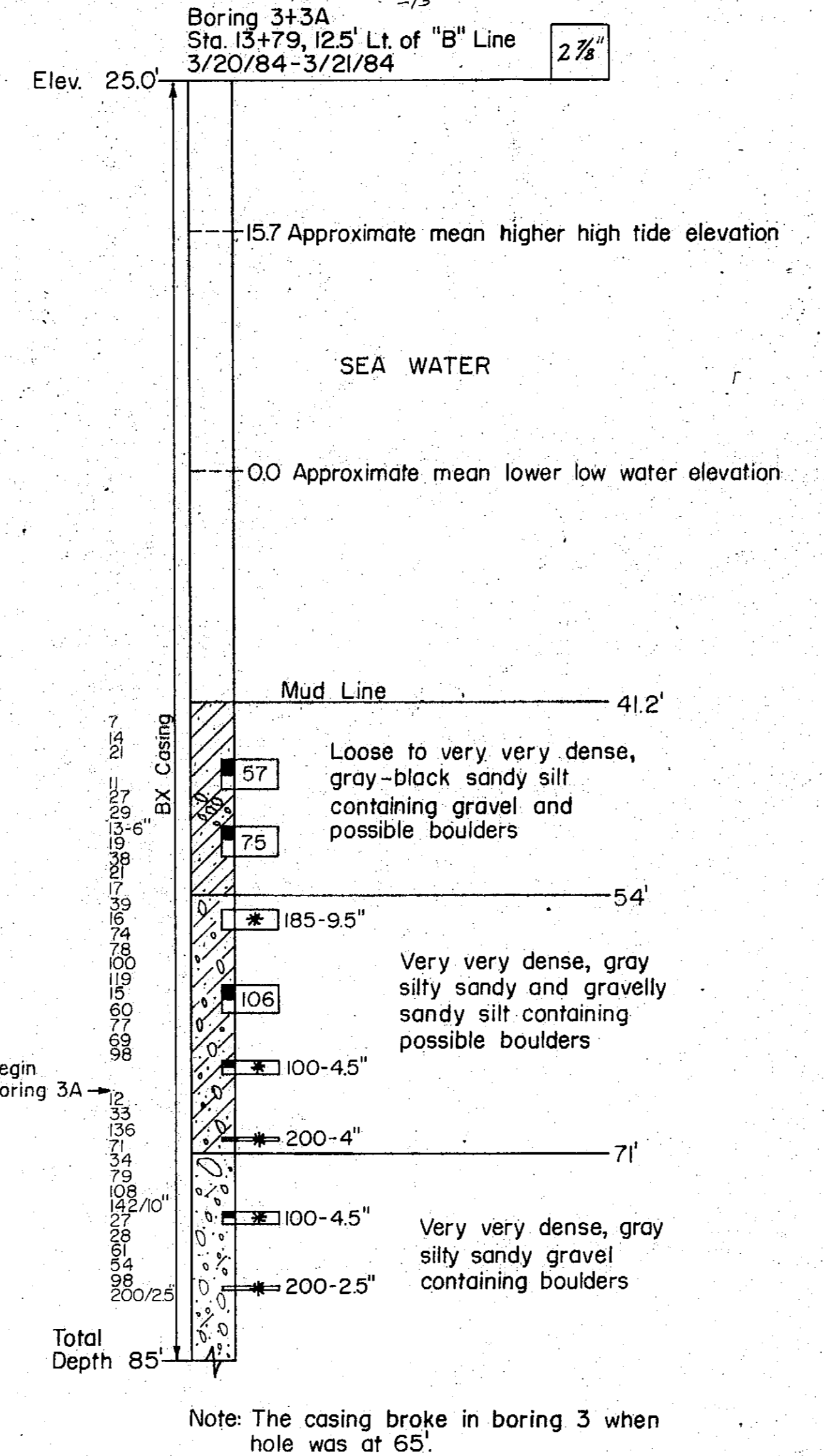
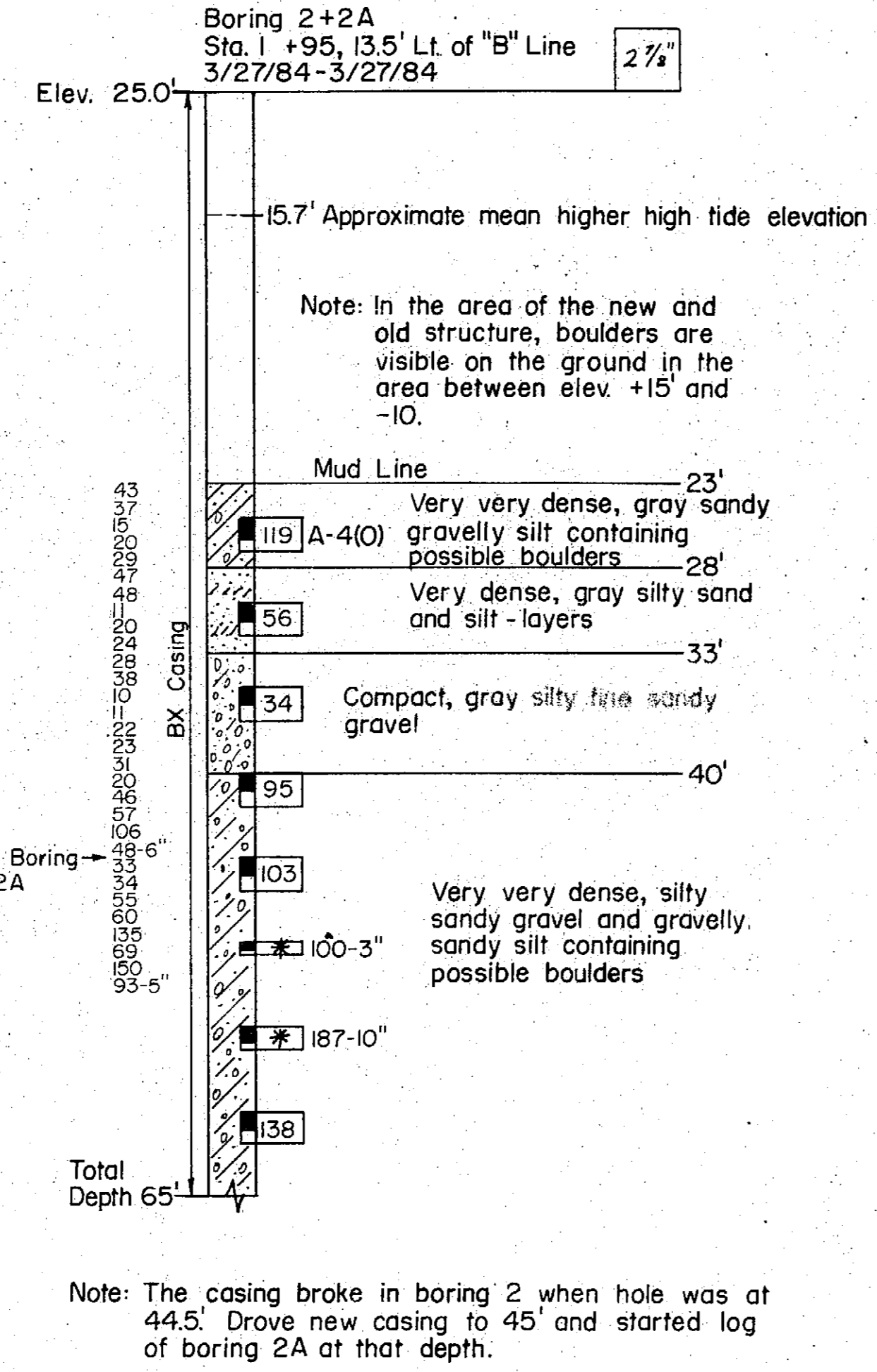
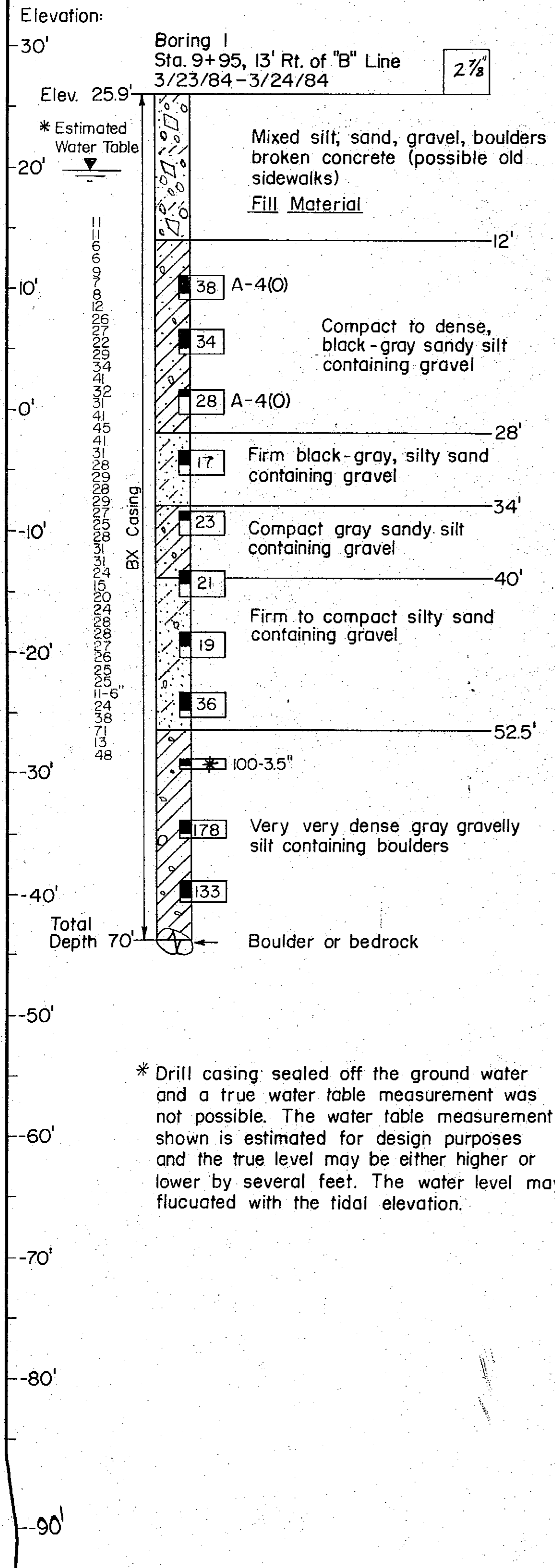
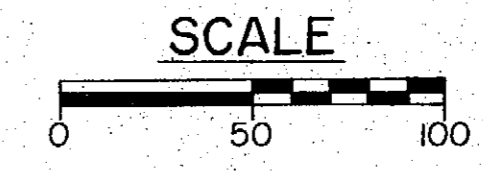
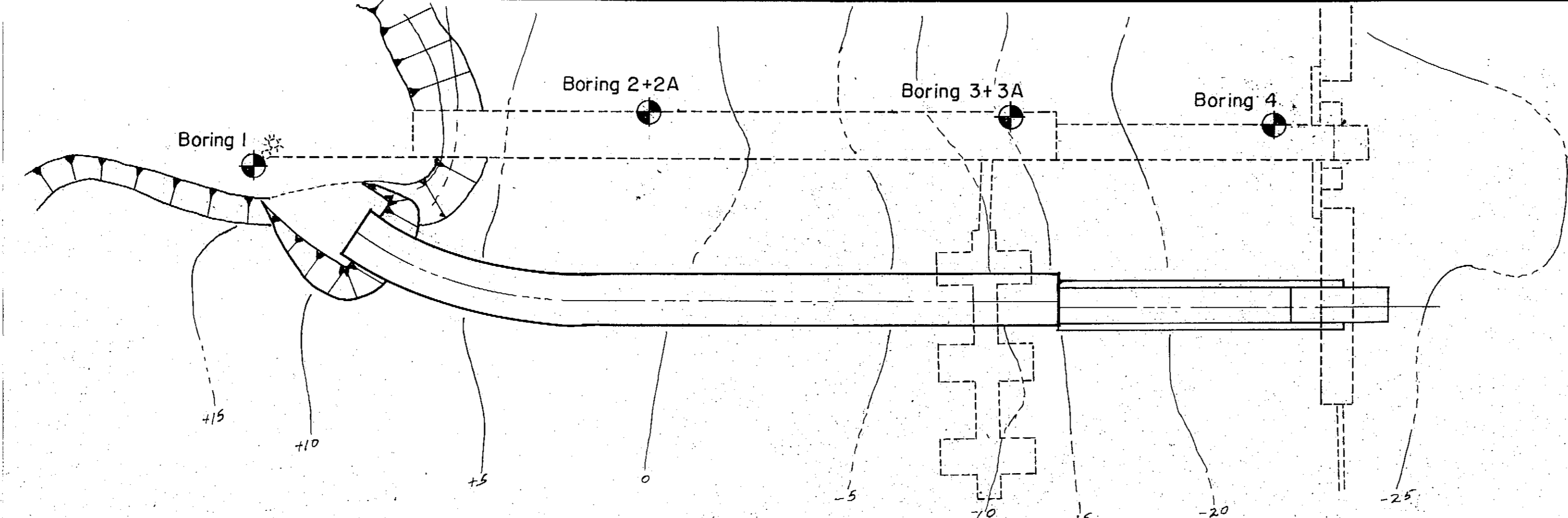


**LOG OF TEST HOLES**

**PETERSBURG FERRY TERMINAL**

State of Alaska  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
Juneau, Alaska

Date May, 1984  
Approved *MW*  
BRIDGE NO. 802  
DWG. NO.  
SHEET 62 of 62



**SOIL GRAIN SIZE DEFINITIONS**

Boulder (rounded)	>12" Diameter
Cobble (rounded)	>3" Diameter - 12" Diameter
Broken rock (angular)	>3" Diameter
Gravel (rounded); Stone (angular)	#10 Sieve - 3" Diameter
Sand	#200 Sieve - #10
Silt/clay	< #200 Sieve

Note: Soil classifications are visual, only unless AASHTO soil class is shown on the log.

