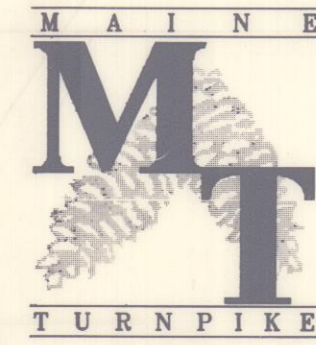


MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE

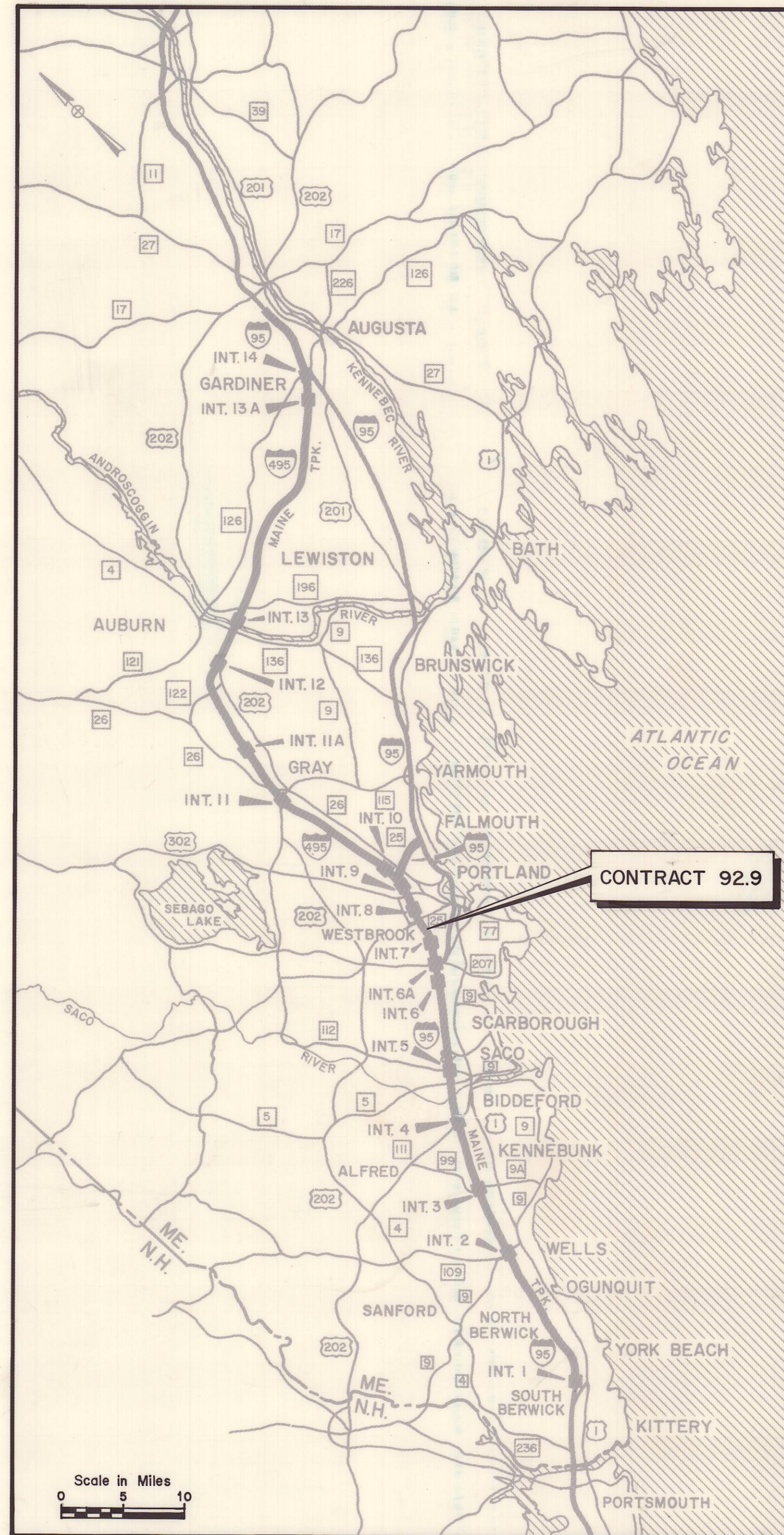


ROBERT K. PACIOS, CHAIRMAN
 JULIAN R. COLES, VICE CHAIRMAN
 PETER W. DANTON, SECRETARY TREASURER
 DANIEL J. CALLAHAN, MEMBER
 DANA F. CONNORS, MEMBER EX-OFFICIO
 PAUL E. VIOLETTE, EXECUTIVE DIRECTOR

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 ESTIMATED QUANTITIES AND GENERAL NOTES
- 3 TYPICAL SECTION AND EROSION CONTROL DETAILS
- 4 HIGHWAY STANDARD DETAILS
- 5-10 BRIDGE STANDARD DETAILS
- 11 MISCELLANEOUS HIGHWAY DETAILS
- 12-26 BRIDGE PLANS
- 27 SITE PLAN
- 28 TRAFFIC DETOUR
- 29-30 TRAFFIC CONTROL I AND II
- 31-32 CROSS SECTIONS

TOTAL SHEETS = 32



LOCATION MAP

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION

COMMISSIONER _____ DATE _____

BUREAU DIRECTOR AND CHIEF ENGINEER _____ DATE _____

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS



Roland A. Lavallee
 ROLAND A. LAVALLEE P.E.
 PROJECT MANAGER

3/17/92
 DATE

APPROVED:

MAINE TURNPIKE AUTHORITY

CHAIRMAN

EXECUTIVE DIRECTOR

DATE _____

CONTRACT 92.9 BRIDGE DECK REPLACEMENT MAINE CENTRAL RAILROAD MM 45.77

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE - PROPERTY OF THE CONTRACTOR	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	44	CY
202.14	REMOVING EXISTING RAILING - PROPERTY OF CONTRACTOR	980	LF
202.20	PROTECTIVE SHIELD	2,150	SY
202.202	REMOVING PAVEMENT SURFACE	1,476	SY
203.20	COMMON EXCAVATION	1,524	CY
203.24	COMMON BORROW	30	CY
203.25	GRANULAR BORROW	510	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	270	CY
206.10	STRUCTURAL EARTH EXCAVATION - PIERS	205	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	910	CY
401.10	SAWING BITUMINOUS CONCRETE	700	LF
403.07	HOT BITUMINOUS PAVEMENT, GRADING B	153	TONS
403.08	HOT BITUMINOUS PAVEMENT, GRADING C	530	TONS
403.10	HOT BITUMINOUS PAVEMENT, GRADING D	50	TONS
409.15	BITUMINOUS TACK COAT, APPLIED	37	GAL
421.01	PRECAST CONCRETE DOWNSPOUT	144	LF
501.212	STEEL H-BEAM PILES 42 LB./FT.	600	LF
501.214	STEEL H-BEAM PILES 53 LB./FT.	420	LF
502.21	STRUCTURAL CONCRETE, ABUTMENTS & RETAINING WALLS	114	CY
502.23	STRUCTURAL CONCRETE PIERS	166	CY
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	1	LS
502.4712	SILICA FUME ADDITIVE	2,400	LBS
502.48	PIER PREPARATION	230	SF
502.50	BRIDGE DECK REPAIR	11	CY
502.60	BACKWALL REPAIR - SURFACE REPAIR - SECTION II	10	SF
502.62	ABUTMENT AND BRIDGE SEAT REPAIR - SECTION II	30	SF
502.63	PIER REPAIR	40	SF
502.71	PATCHROC 10-60	10	EA
			(50 LB. BAG)
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	18,753	LBS
503.13	REINFORCING STEEL, PLACING	18,753	LBS
503.14	EPOXY - COATED REINFORCING STEEL, FABRICATED AND DELIVERED	217,200	LBS
503.15	EPOXY - COATED REINFORCING STEEL, PLACING	217,200	LBS
504.701	STRUCTURAL STEEL FABRICATED & DELIVERED, ROLLED (104,700 LBS., GRADE 36, 1800 LBS., GRADE 50)	1	LS
504.71	STRUCTURAL STEEL ERECTION (106,500 LBS.)	1	LS
504.72	STEEL BEAM MODIFICATIONS	14,240	LBS
504.73	STRUCTURAL STEEL REPAIRS	400	LBS
505.08	SHEAR CONNECTORS	1	LS

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
506.30	SHOP COATING OF STRUCTURAL STEEL	1	LS
506.31	FIELD REPAIR OF DAMAGED COATING	1	LS
507.092	ALUMINUM BRIDGE RAILING, 2 BAR	1,056	LF
508.13	MEMBRANE WATERPROOFING	1	LS
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	510	SY
515.22	THOROSEAL COATING FOR CONCRETE SURFACES	40	SY
520.22	EXPANSION DEVICE EXTENSION - COMPRESSION SEAL	4	EA
527.101	TEMPORARY IMPACT ATTENUATOR SYSTEM	1	LS
603.159	12 INCH CULVERT PIPE OPTION III	15	LF
606.174	GUARDRAIL ATTACHMENT - TYPE A	6	EA
606.371	GUARDRAIL REMOVE AND STACK, SINGLE RAIL	108	LF
606.372	GUARDRAIL REMOVE AND STACK, DOUBLE RAIL	54	LF
606.381	GUARDRAIL REMOVE AND RESET, SINGLE RAIL	512	LF
606.382	GUARDRAIL REMOVE AND RESET, DOUBLE RAIL	800	LF
606.48	SINGLE GALVANIZED STEEL POST	10	EA
609.131	VERTICAL BRIDGE CURB - TYPE IA	100	LF
609.132	VERTICAL BRIDGE CURB - TYPE IB	976	LF
610.20	TYPE II STONE	25	CY
613.319	TEMP. EROSION CONTROL BLANKET	3,340	SY
615.07	LOAM	422	CY
618.14	SEEDING METHOD NUMBER 2	35	UNIT
618.25	APPLIED WATER	10	MG
619.12	MULCH	35	UNIT
619.14	TEMPORARY MULCH	35	UNIT
620.58	EROSION CONTROL GEOTEXTILE	82	SY
627.671	REMOVING PAINTED PAVEMENT MARKINGS	7,536	LF
627.70	4 INCH YELLOW TEMPORARY PAVEMENT MARKINGS - TAPE	7,440	LF
627.71	4 INCH WHITE TEMPORARY PAVEMENT MARKINGS - TAPE	8,850	LF
629.05	HAND LABOR, STRAIGHT TIME	50	MH
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	25	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	25	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	25	HR
639.18	FIELD OFFICE TYPE A	1	EA
645.107	REMOVE AND RESET WARNING SIGNS	4	EA
645.302	DEMOUNTABLE REFLECTORIZED DELINEATOR, DOUBLE	20	EA
652.30	FLASHING ARROW BOARD	2	EA
652.33	DRUM	280	EA
652.35	CONSTRUCTION SIGNS	512	SF
652.351	ALTERNATE ROUTE CONSTRUCTION SIGNS	1,160	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	20	MH
656.50	BALED HAY IN PLACE	192	EA
656.632	30 INCH SILT FENCE	480	LF
663.05	TEMPORARY CONCRETE BARRIER	2,720	LF
663.06	RESETTING TEMPORARY CONCRETE BARRIER	3,810	LF

SUMMARY OF EXCAVATION AND BORROW

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION	1,090
EXISTING PAVEMENT REMOVED	34
GRUBBING IN FILL	400

TOTAL COMMON EXCAVATION 1,524

FILL FOR BORROW CALCULATIONS

COMMON FILL	960
GRUBBING IN FILL	400

TOTAL FILL 1,360

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION 1,524

DEDUCTIONS:	
EXISTING PAVEMENT REMOVED	34
GRUBBING IN FILL	400

(2) TOTAL DEDUCTIONS: 434

TOTAL COMMON EXCAVATION (1) MINUS (2) 1,090

(3) AVAILABLE STRUCTURAL EARTH EXCAVATION 475

TOTAL AVAILABLE NON-ROCK EXCAVATION 1,565

COMPUTATION OF COMMON BORROW FOR ESTIMATE

TOTAL FILL 1,360

TOTAL AVAILABLE NON-ROCK EXCAV. 1,565 x 0.85 =

TOTAL AVAILABLE EXCAVATION 1,330

TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION 30

TOTAL COMMON BORROW 30

WASTE 0

GENERAL NOTES

- UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- SEEDING AND LOAMING SHALL CONFORM TO SECTION 618 METHOD 2 AND SECTION 615 OF THE STANDARD SPECIFICATIONS, RESPECTIVELY AND SHALL BE APPLIED TO ALL SLOPES.
- MULCH SHALL BE APPLIED IN AREAS SEEDED BY SEEDING METHOD NO. 2.
- LOAM DEPTHS UNDER SEEDING METHOD NO. 2 ARE 4" AND ARE NOMINAL.
- ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN VERTICAL FACE.
- WHERE HOT BITUMINOUS PAVEMENT GRADING "C" IS TO MEET EXISTING PAVEMENT A BUTT JOINT WILL BE REQUIRED - SEE PAVEMENT DETAILS.
- PAYMENT FOR REMOVAL OF THE ENDS OF EXISTING PIPE TO BE EXTENDED, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS DRAINAGE ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE THEREFORE.
- REQUIRED EROSION AND SEDIMENTATION CONTROL SHOWN ON THE PLAN IS APPROXIMATE ONLY. ACTUAL TYPE AND LOCATION FOR HAY BALES AND SILT FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR DUE TO ANY VARIANCE BET DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED.
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH THE CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
- REMOVING AND RESETTING EXISTING SIGNS WITHIN THE LIMITS OF THE PROPOSED TRAFFIC CROSSEOVERS WILL NOT BE MEASURED FOR PAYMENT AND WILL BE CONSIDERED INCIDENTAL TO ITEM 652.361.

Maine Turnpike Authority
Maine Turnpike



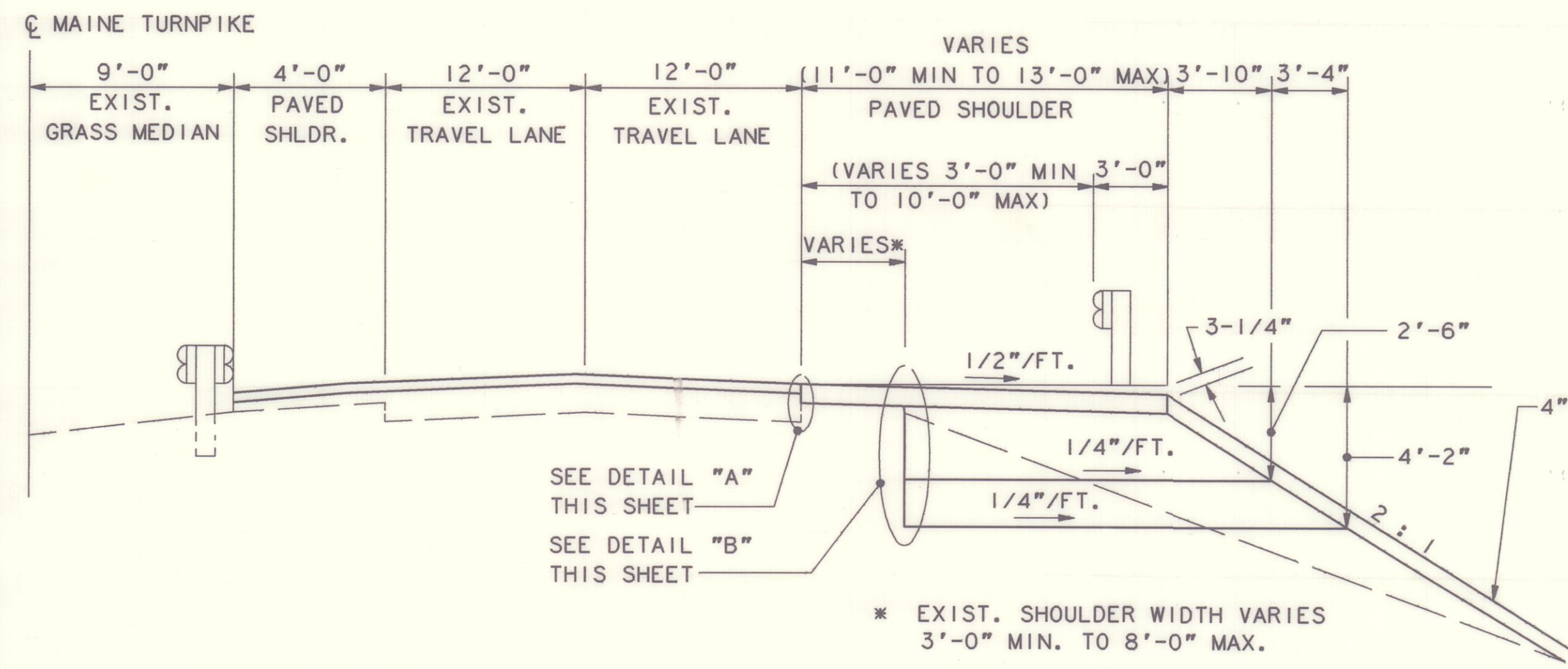
BRIDGE DECK REPLACEMENT
MAINE CENTRAL RAILROAD
ESTIMATED QUANTITIES
AND GENERAL NOTES

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

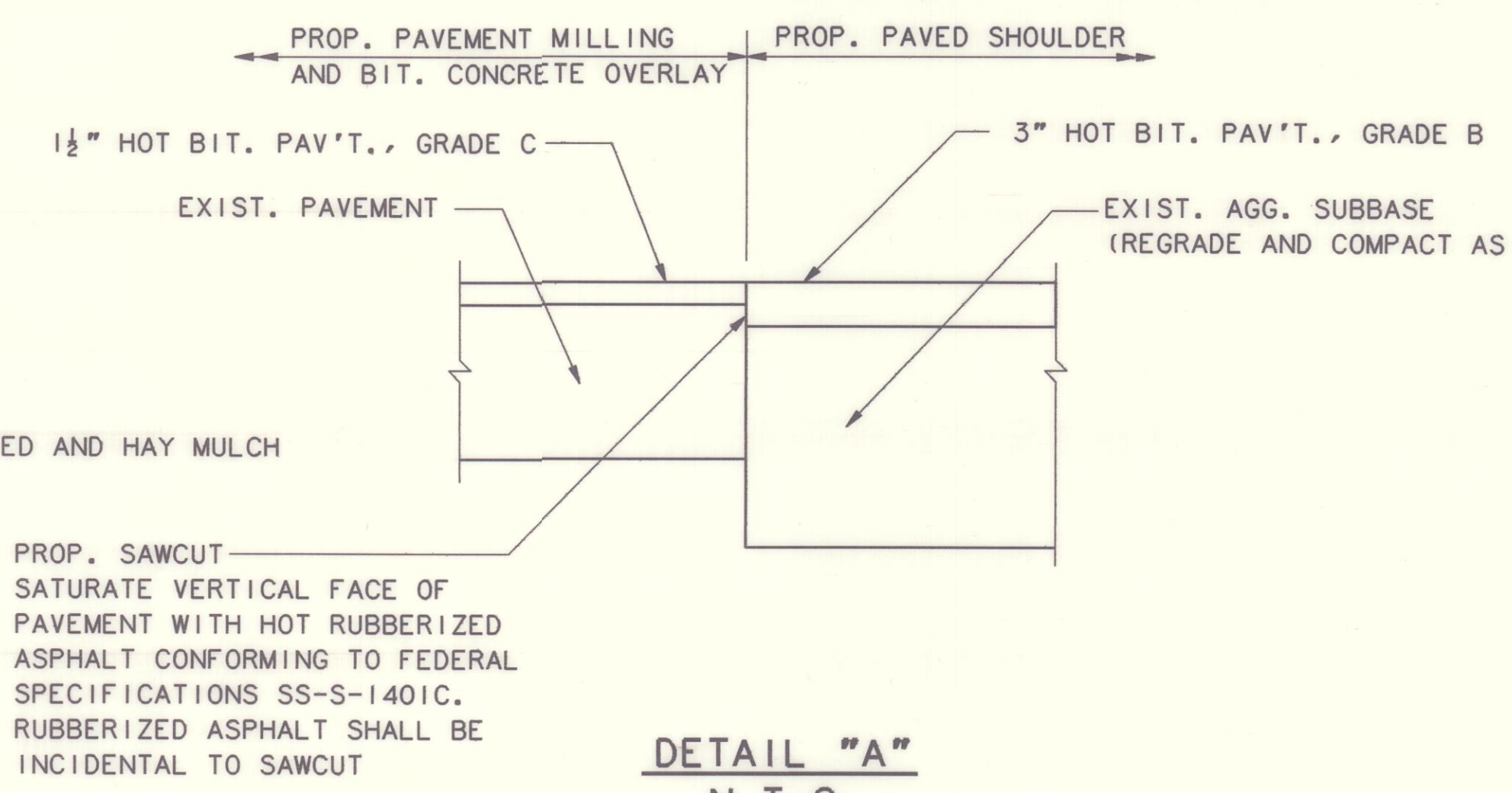
Contract 92.9

Sheet No. 2 of 32

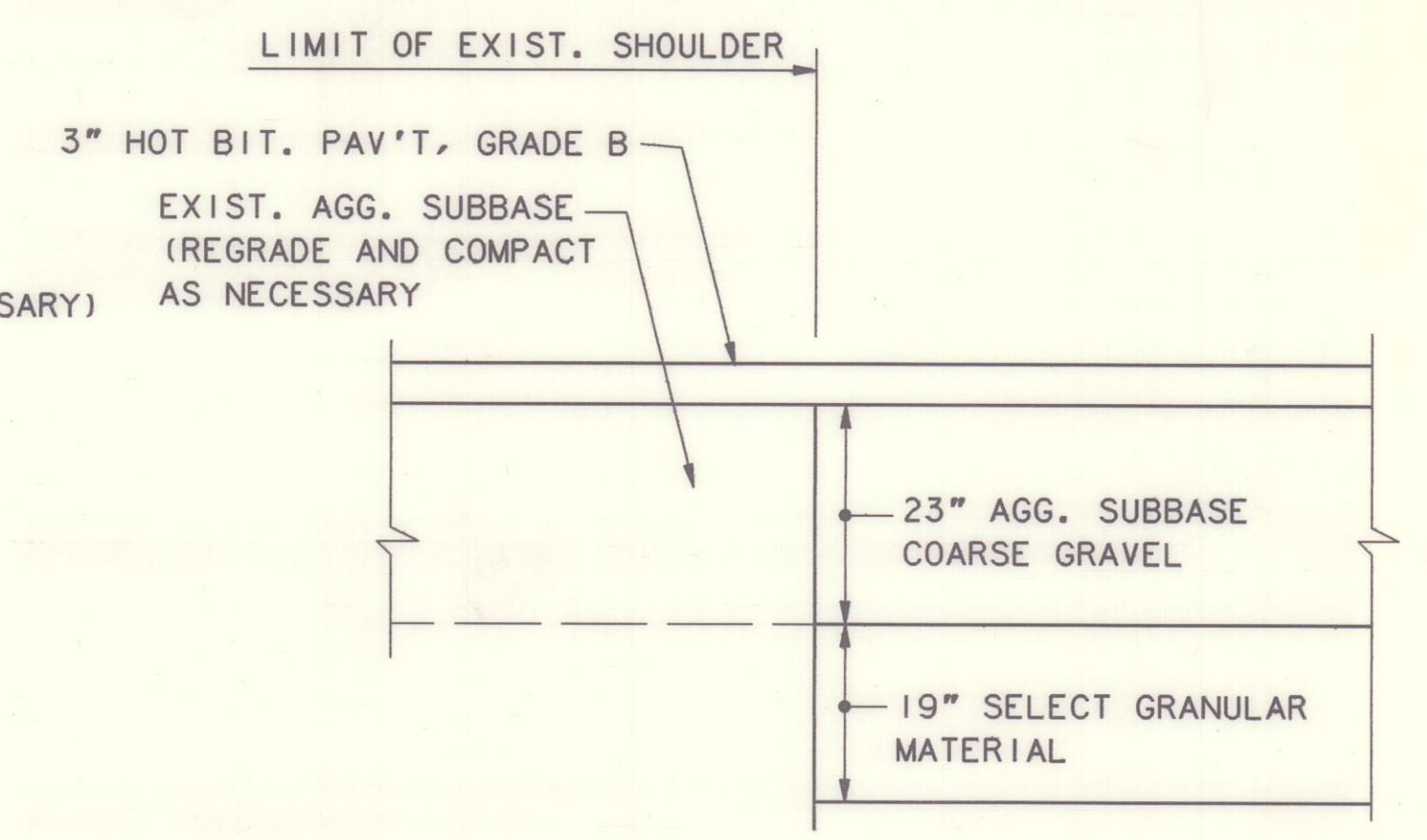
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		Designed	JFC 2/92	
		Drawn	SV 2/92	
		Checked	BJB 2/92	



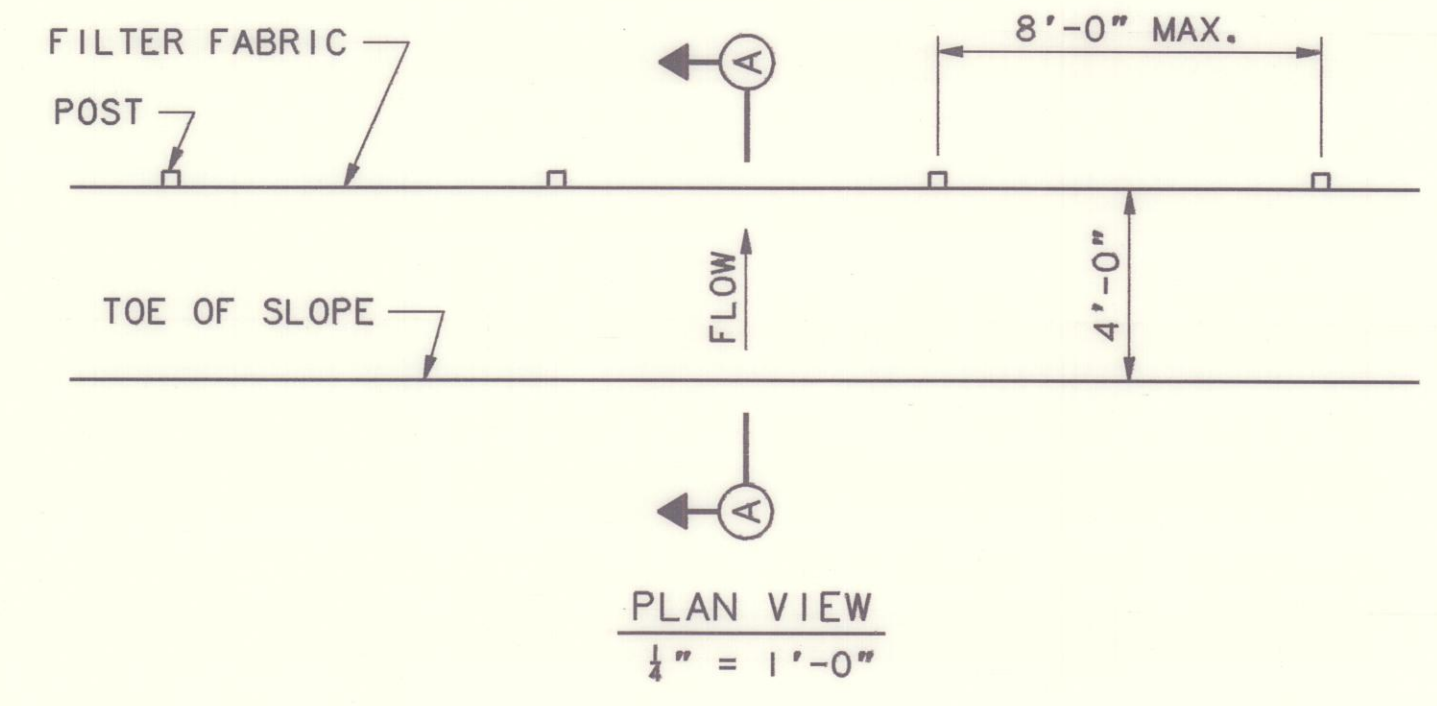
TYPICAL SECTION
N.T.S.



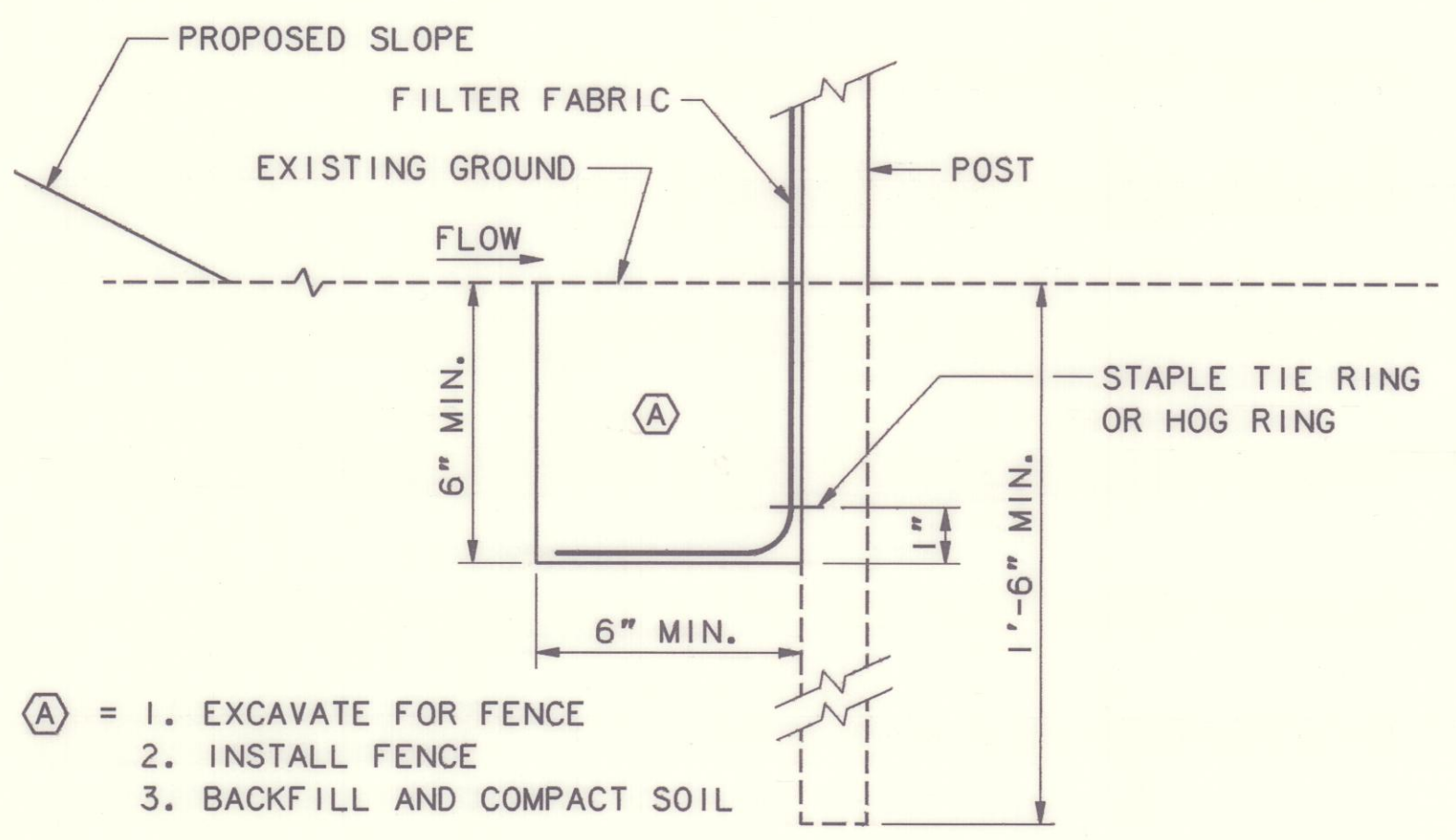
DETAIL "A"
N.T.S.



DETAIL "B"
N.T.S.



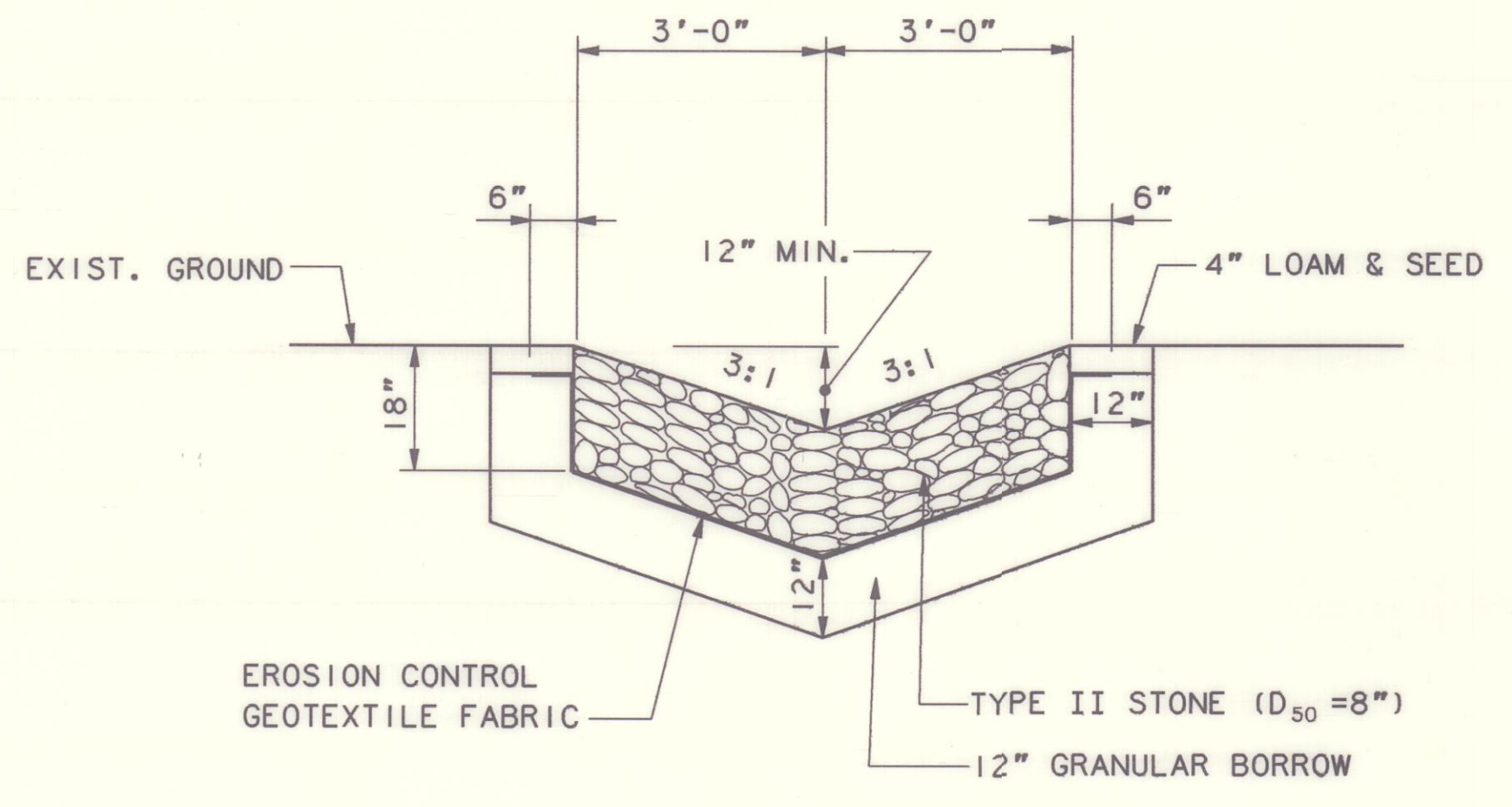
PLAN VIEW
1/4" = 1'-0"



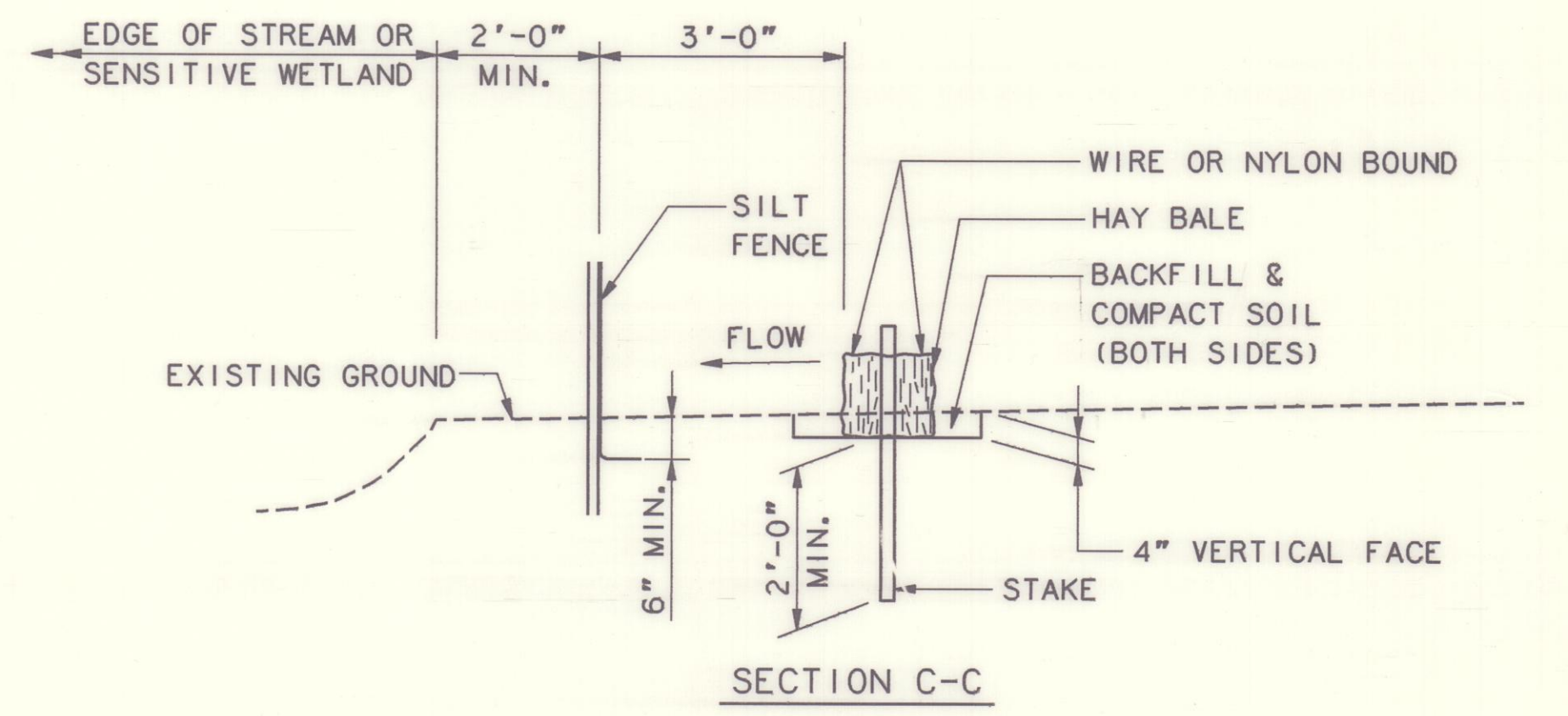
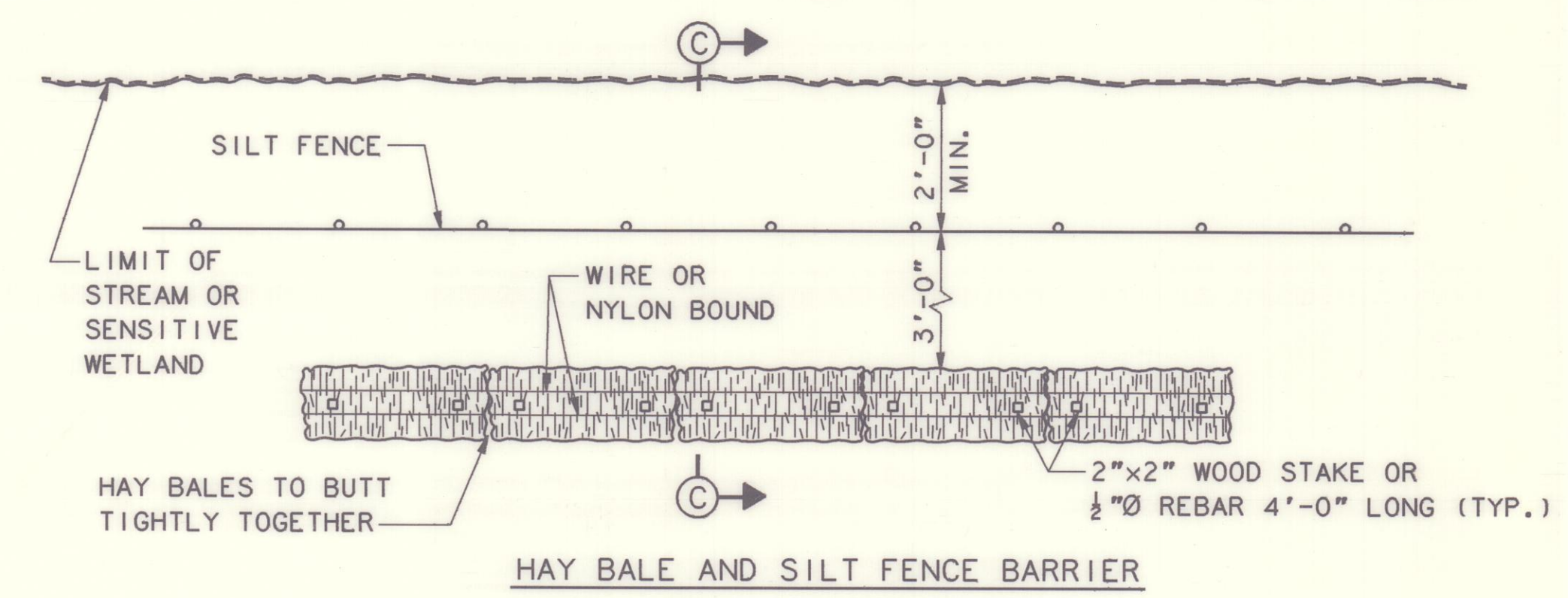
SECTION A-A
3" = 1'-0"

SILT FENCE

- (A) = 1. EXCAVATE FOR FENCE
- 2. INSTALL FENCE
- 3. BACKFILL AND COMPACT SOIL



6' STONE DITCH DETAIL
1/2" = 1'-0"



DOUBLE LAYER OF PROTECTION
HAY BALE AND SILT FENCE BARRIER
1/2" = 1'-0"

No.	Revision	By	Date	In Charge Of:
		Designed	JFC 1/92	
		Drawn	LS 1/92	
		Checked	RJD 1/92	
				RAL

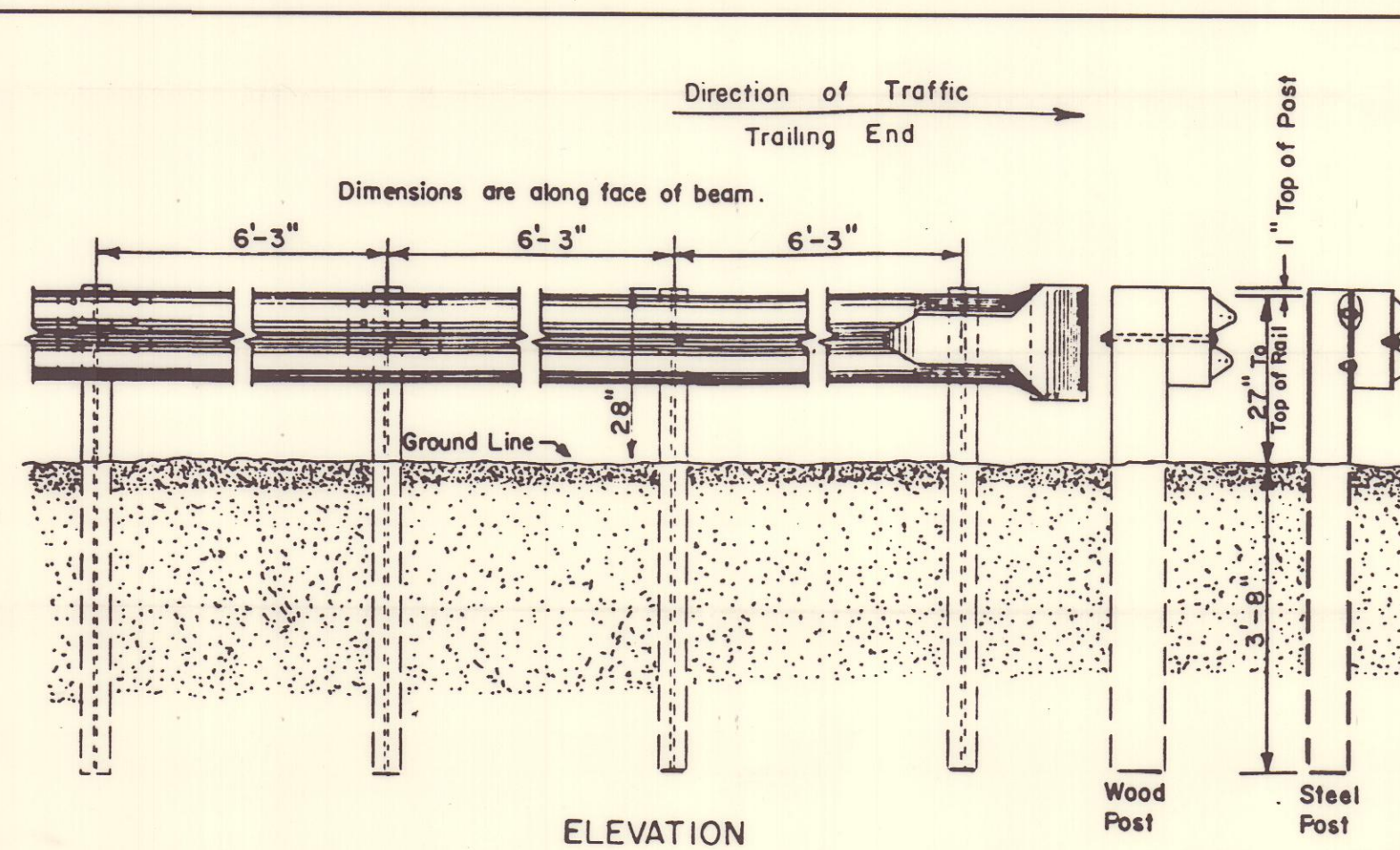
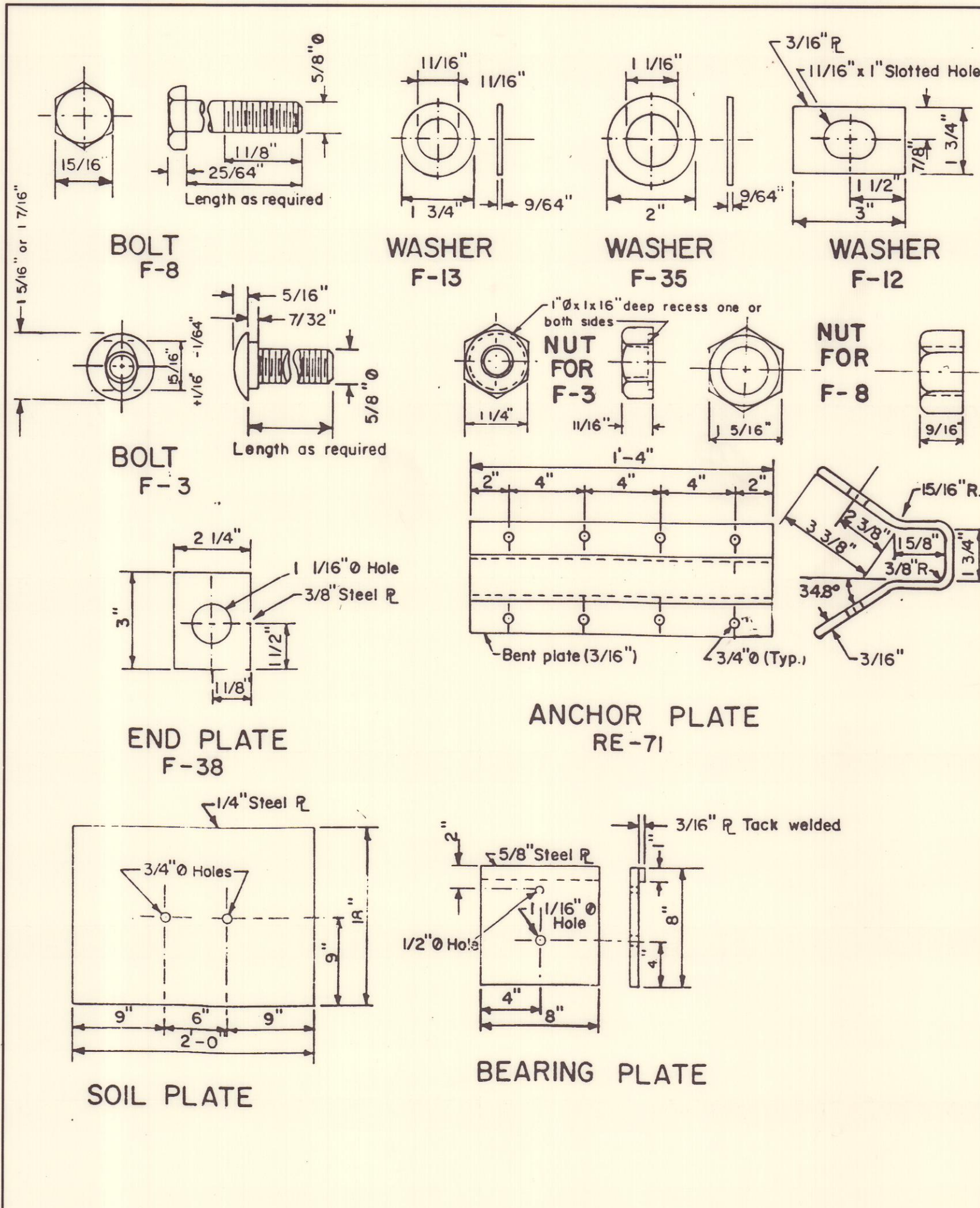
Maine Turnpike Authority
Maine Turnpike

BRIDGE DECK REPLACEMENT
MAINE CENTRAL R.R.
TYPICAL SECTION &
EROSION CONTROL DETAILS

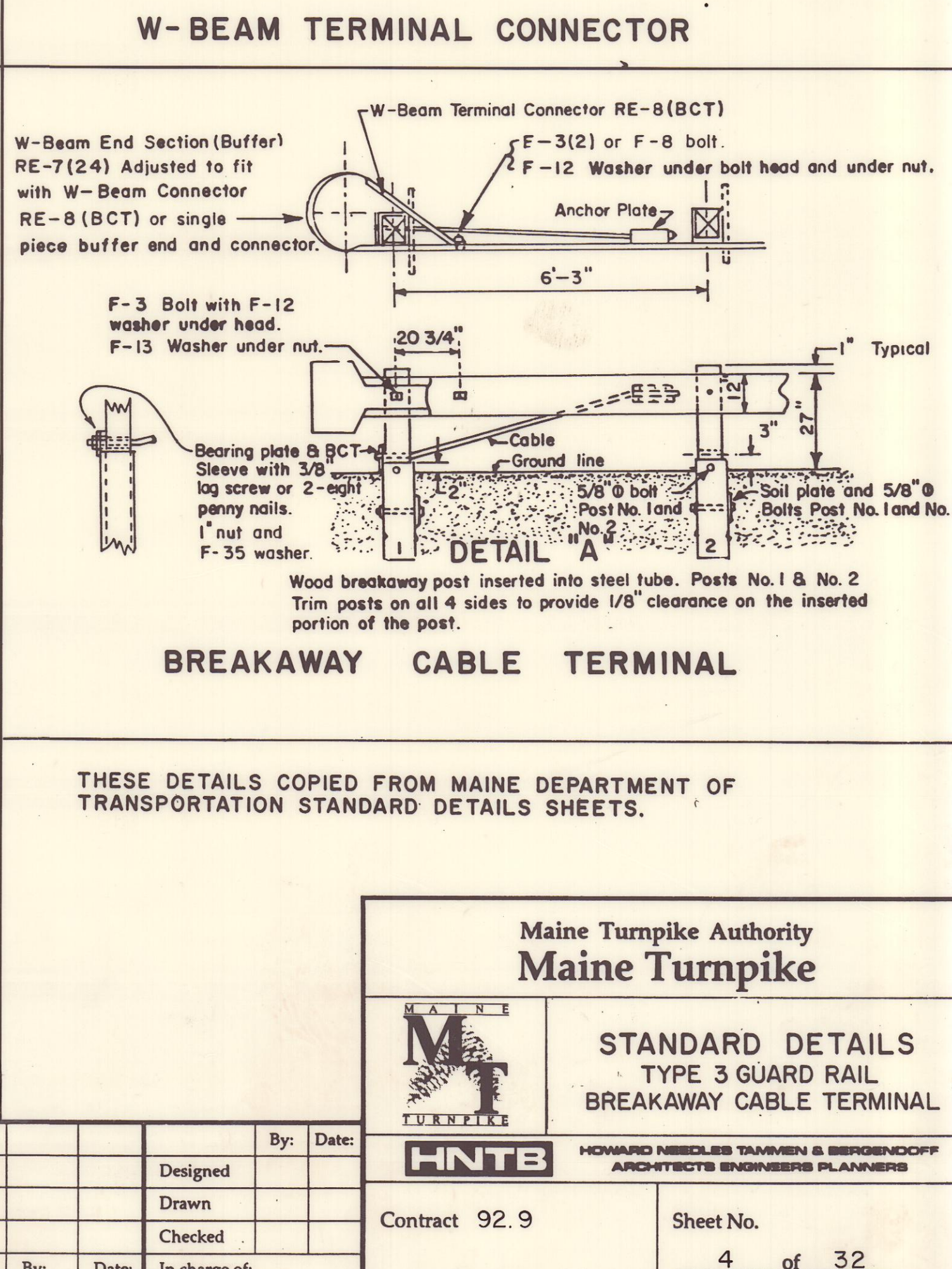
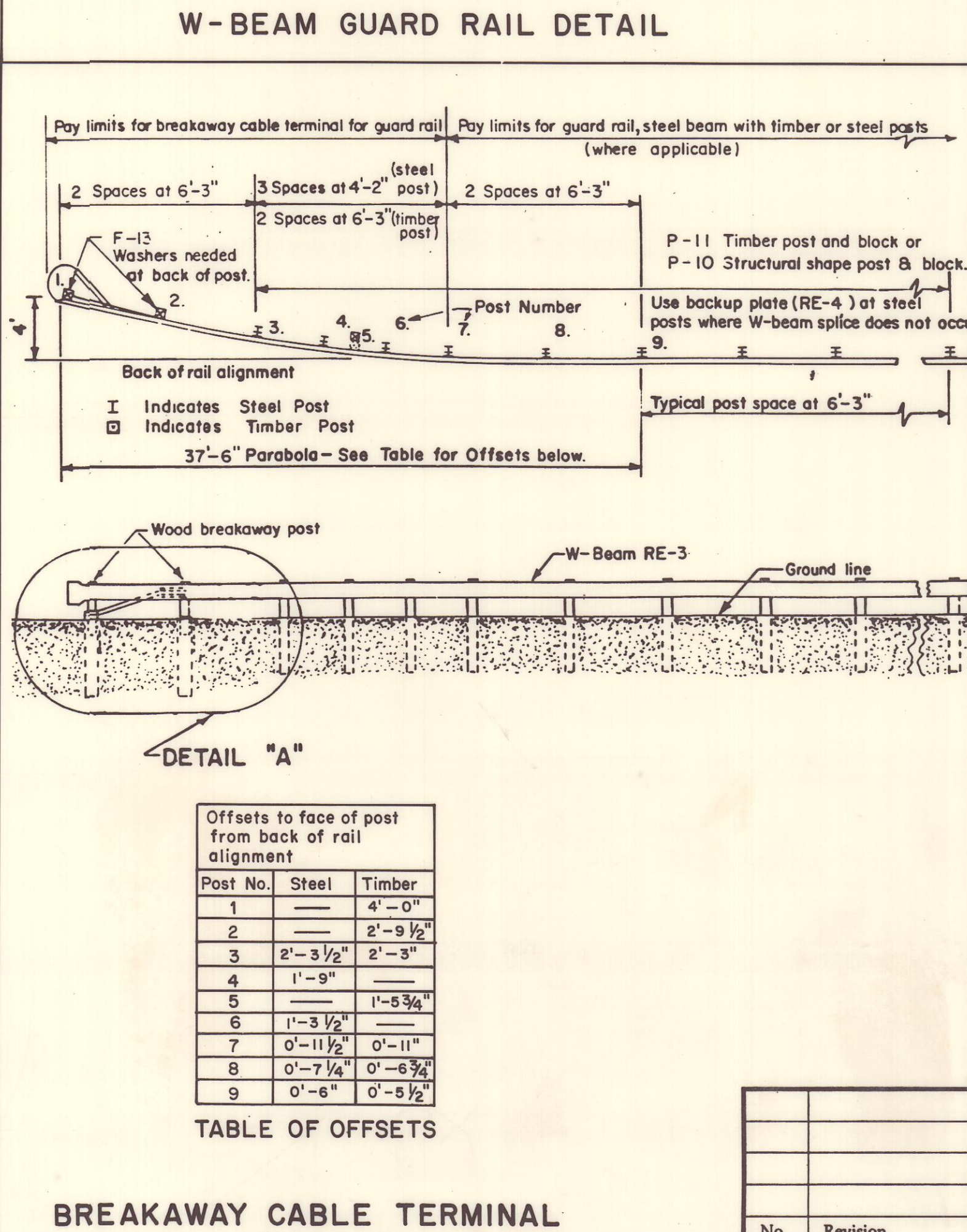
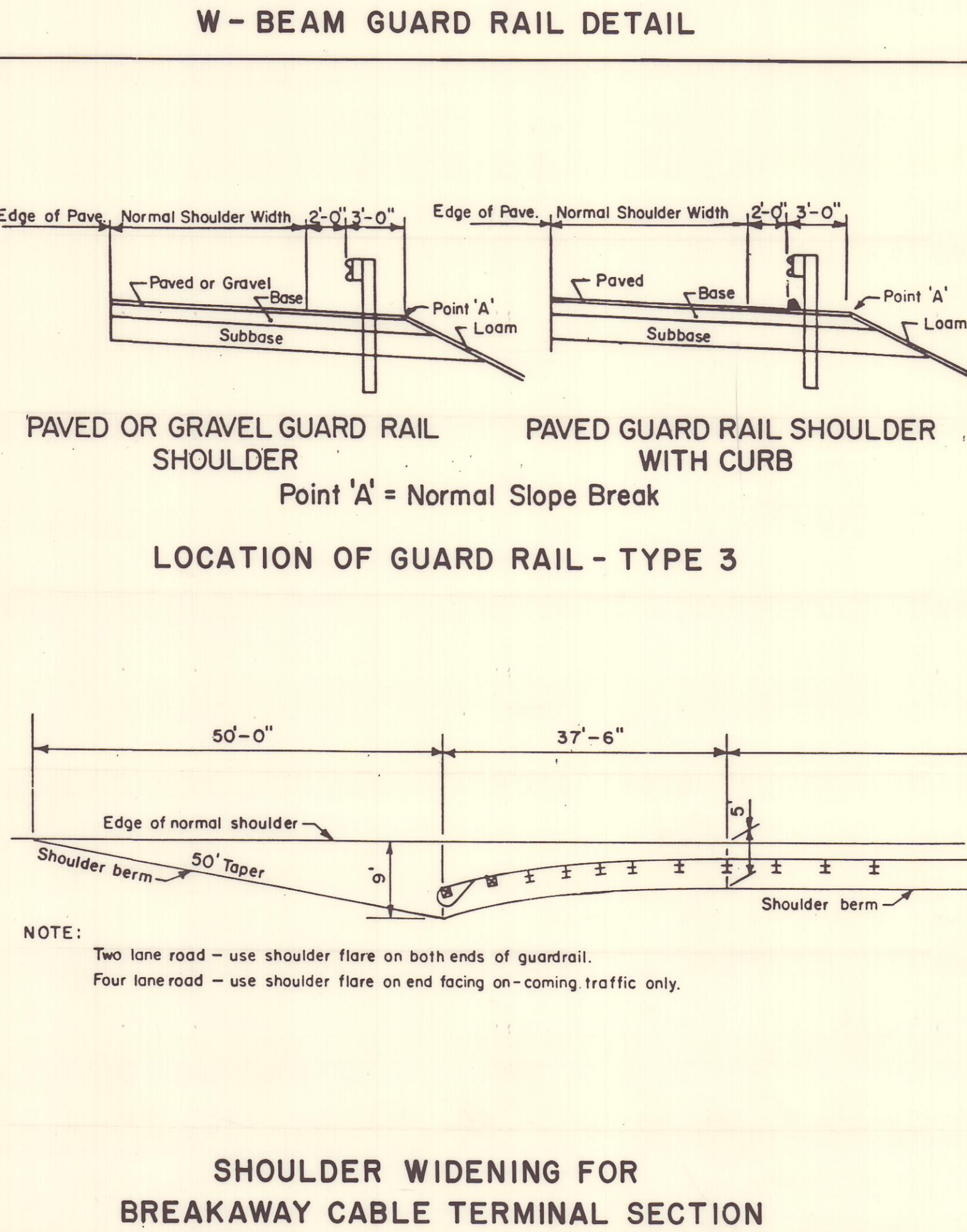
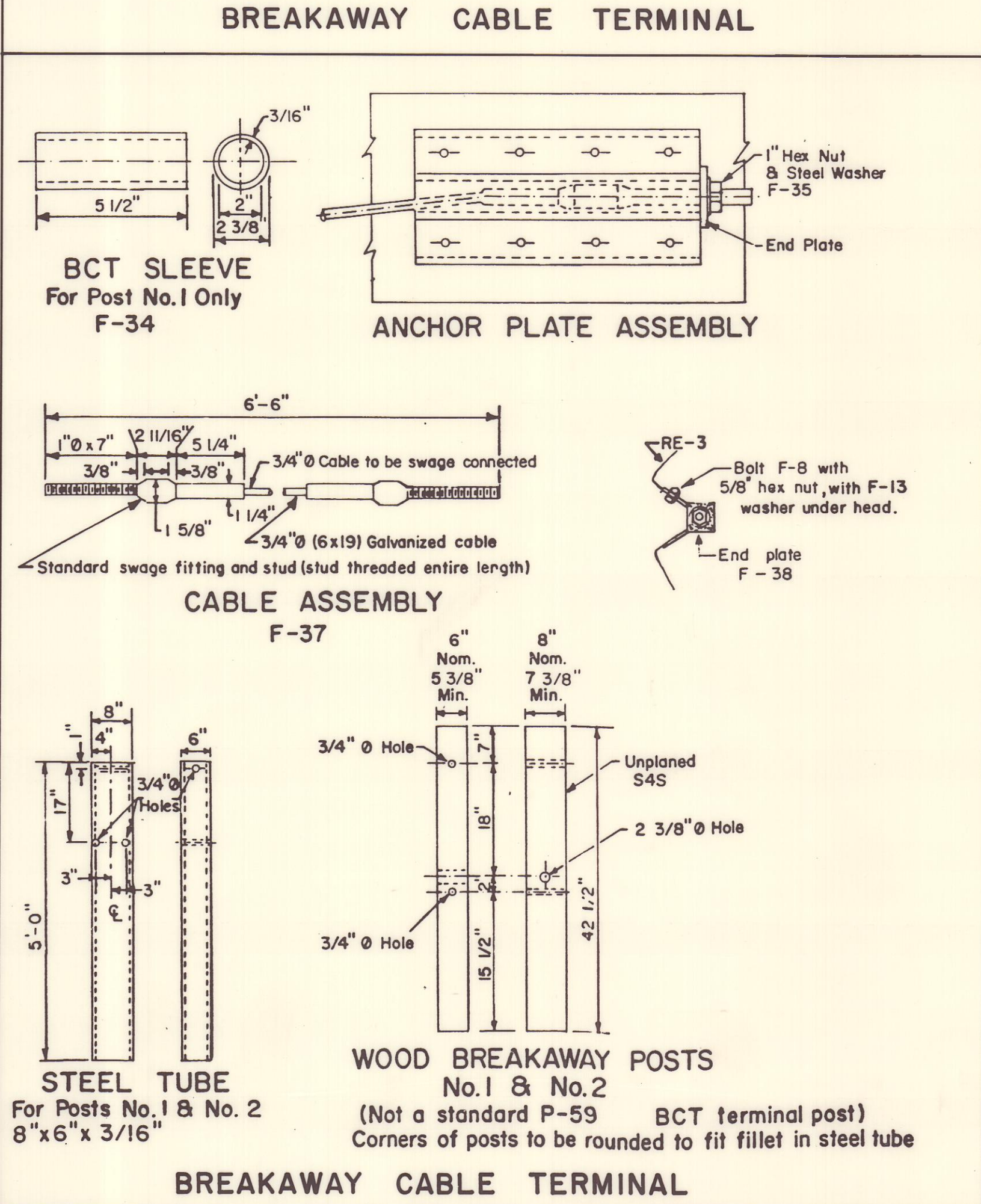
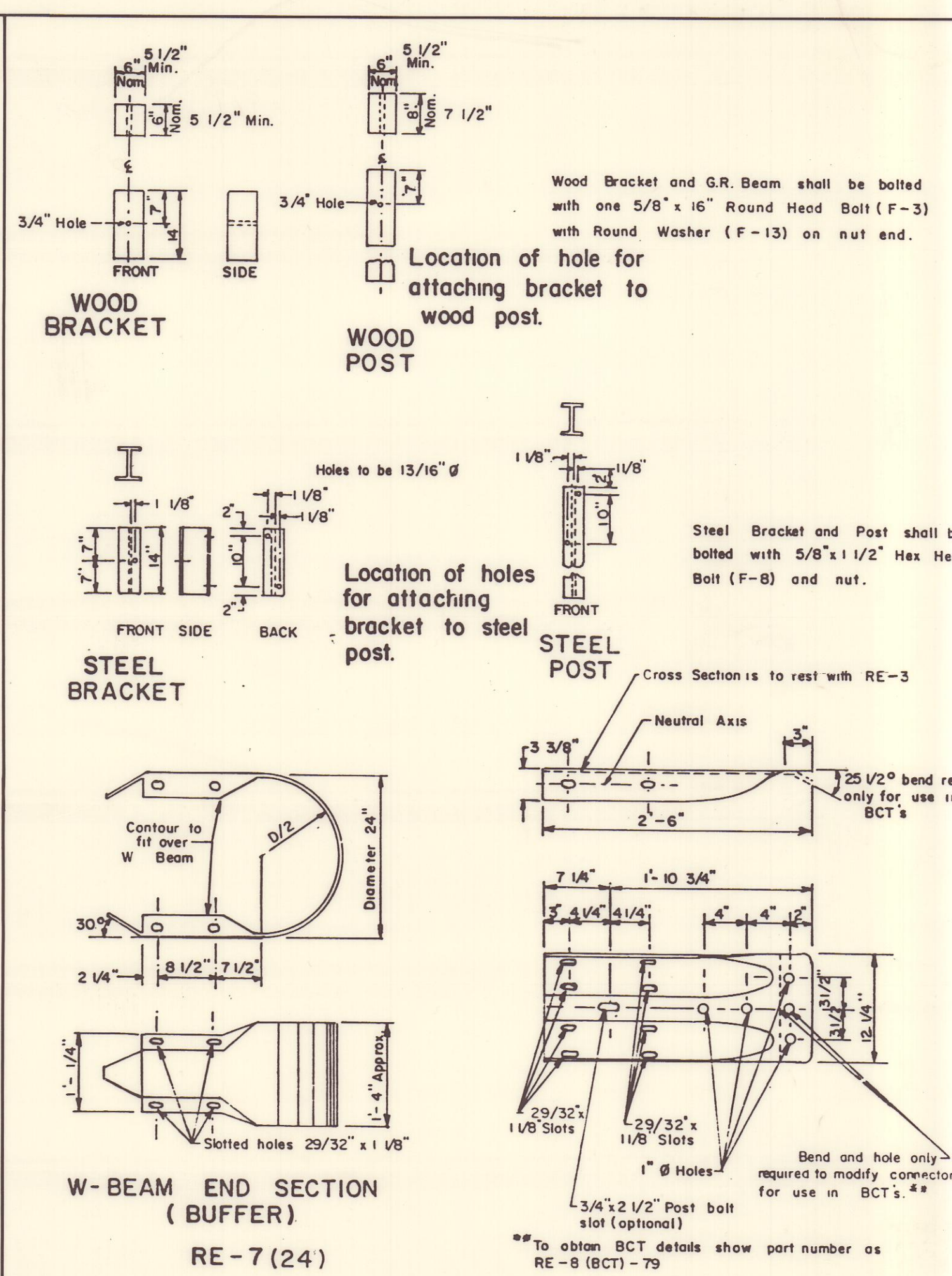
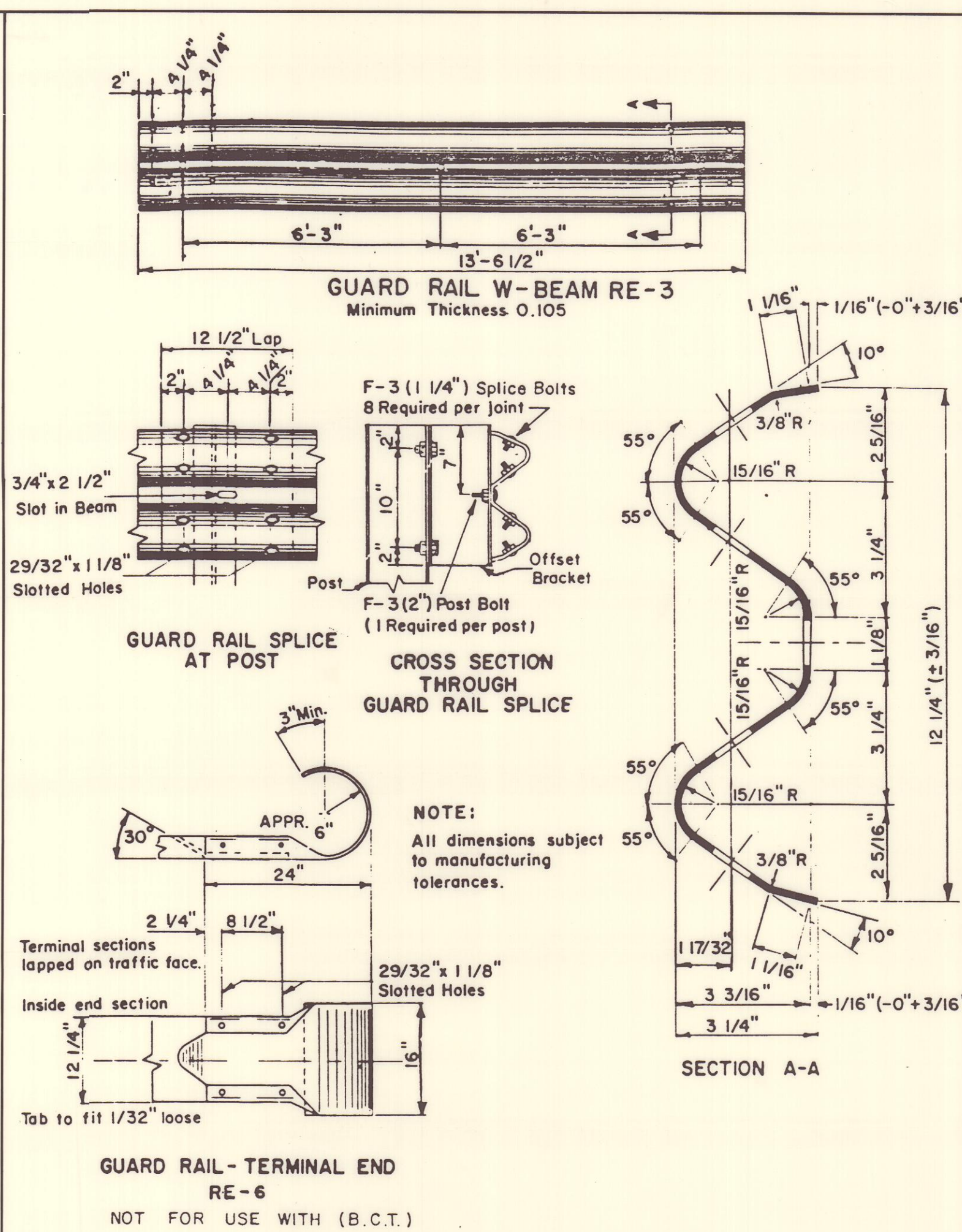
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. **3** of **32**



1. Intermediate post spacing shall be 6'-3" unless otherwise shown.
 2. Wood posts for Guard Rail shall be 6" Nom. (5 1/2" Min.) x 8" Nom. (7 1/2" Min.) and offset blocks for type "3a" Guard Rail shall be 6" x 6".
 3. Steel posts and offset brackets for Guard Rail shall be W6 x 8.5 or W6 x 9.0.
 4. Steel posts punched with holes in addition to those specified, to accommodate other types of Guard Rail, will be accepted subject to the approval of the engineer.
 5. "W" Beam Back up Plates shall be placed behind rail elements at intermediate steel posts (non splice posts).
 6. Beam Type Guard Rail set on radius of 150' or less shall be Circular Guard Rail.
 7. Offset Bracket shall be installed on all posts, except at B.C.T. and twisted end sections.
 8. Guard Rail - Terminal End (RE-6) to be used only on off-traffic end of guard rail, on divided highway Washers F-12 shall be installed on the last 9 posts.
 9. Identification letters and numbers on drawings refer to the standard detail drawings shown in "A Guide to Standardized Highway Barrier Rail Hardware" by AASHTO - AGC - ARTBA Joint Cooperative Committee.
- "W" Beam Backup Plate RE-4**
1'-0" x 1'-0" x 1/4"
- Same as Guard Rail Beam Detail



Maine Turnpike Authority
Maine Turnpike

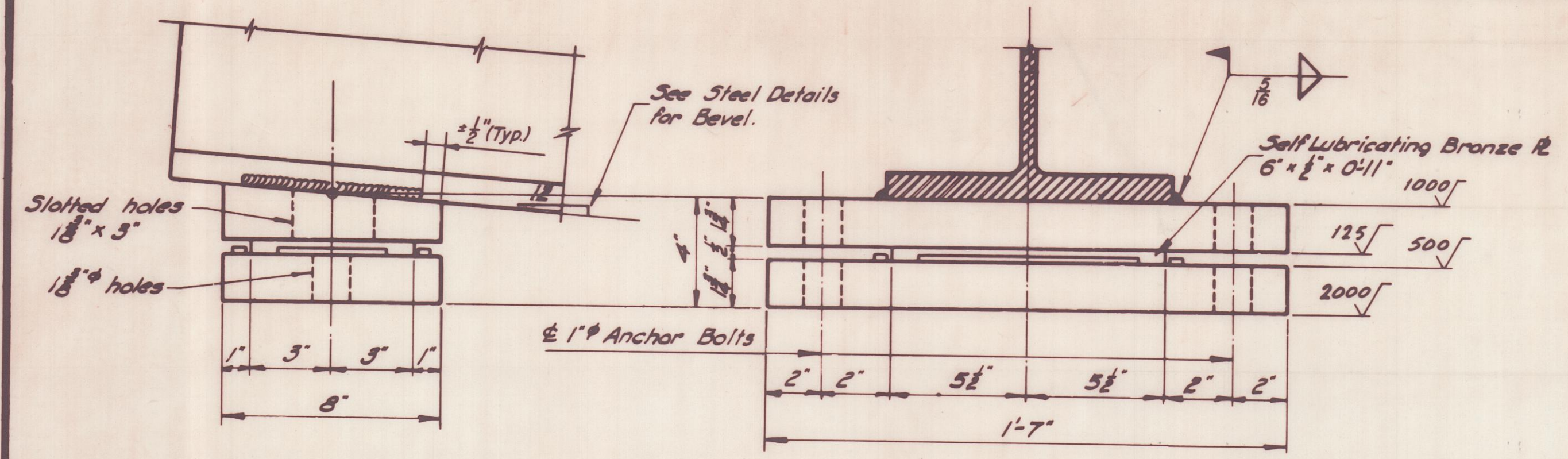
STANDARD DETAILS
TYPE 3 GUARD RAIL
BREAKAWAY CABLE TERMINAL

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

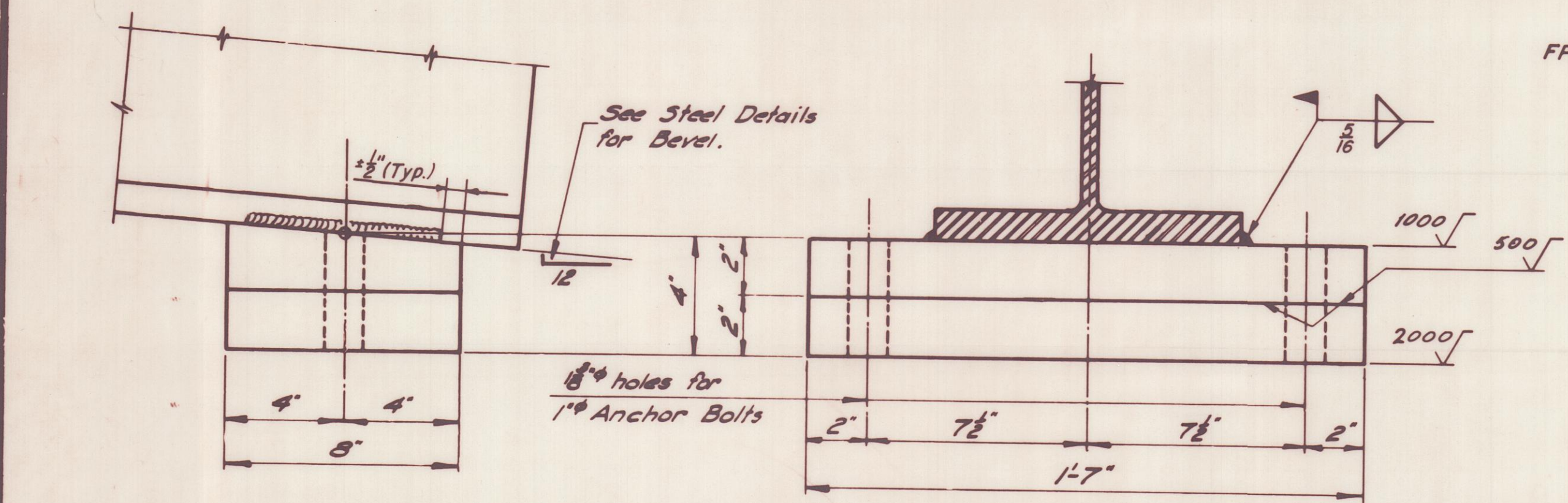
Contract 92.9 Sheet No. 4 of 32

By:	Date:
Designed	
Drawn	
Checked	
In charge of:	

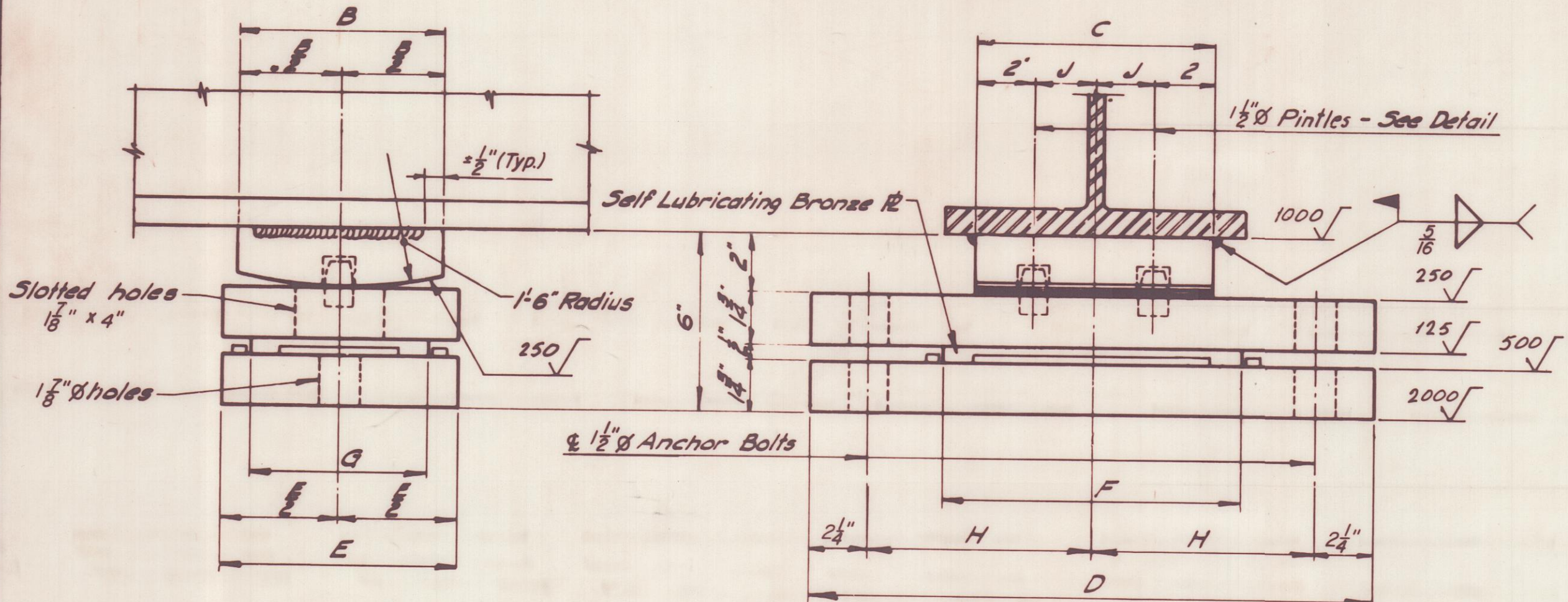
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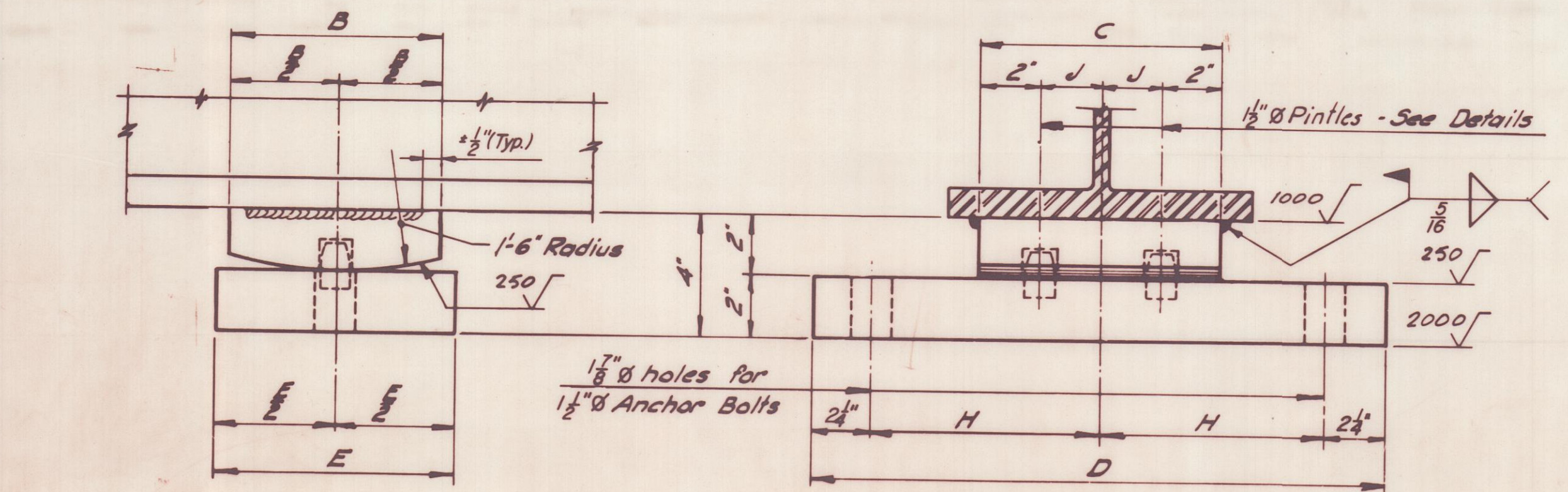
EXPANSION PEDESTAL - EPA



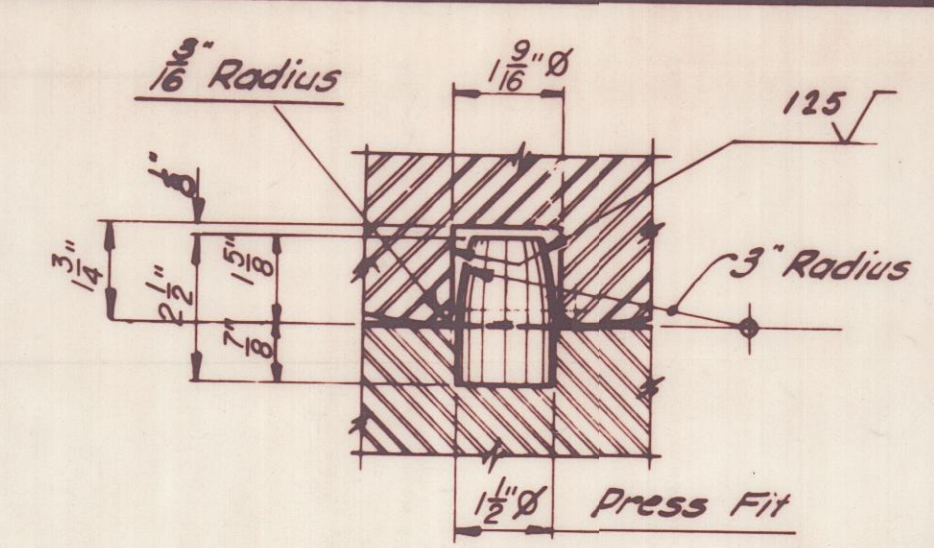
FIXED PEDESTAL - FPA



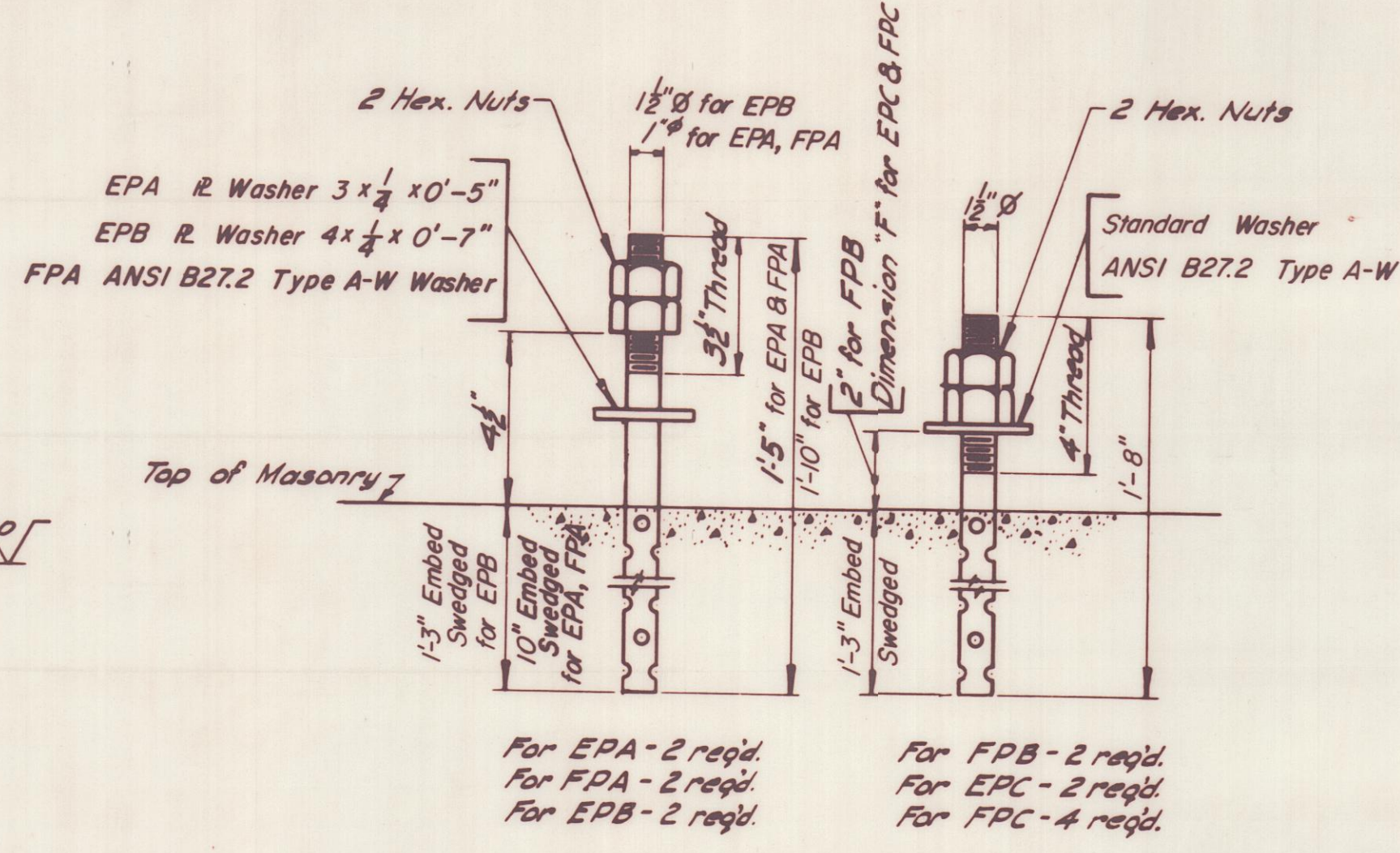
EXPANSION PEDESTAL - EPB



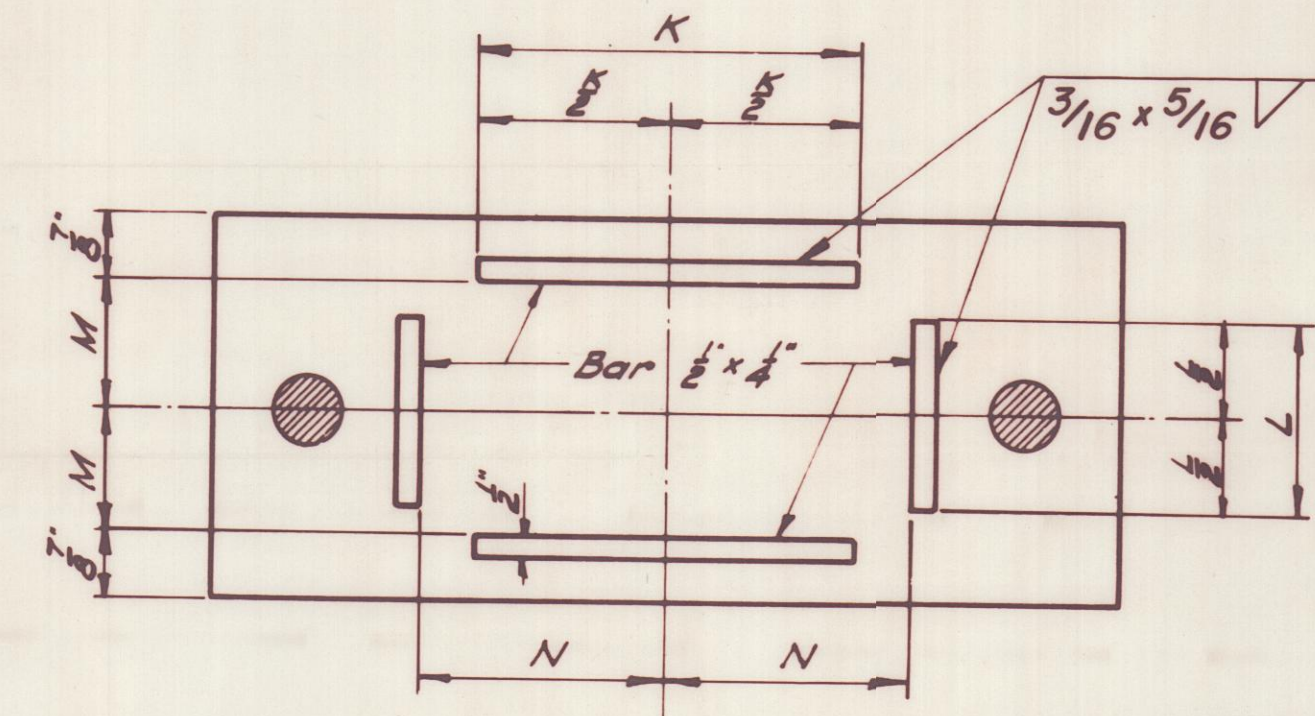
FIXED PEDESTAL - FPB



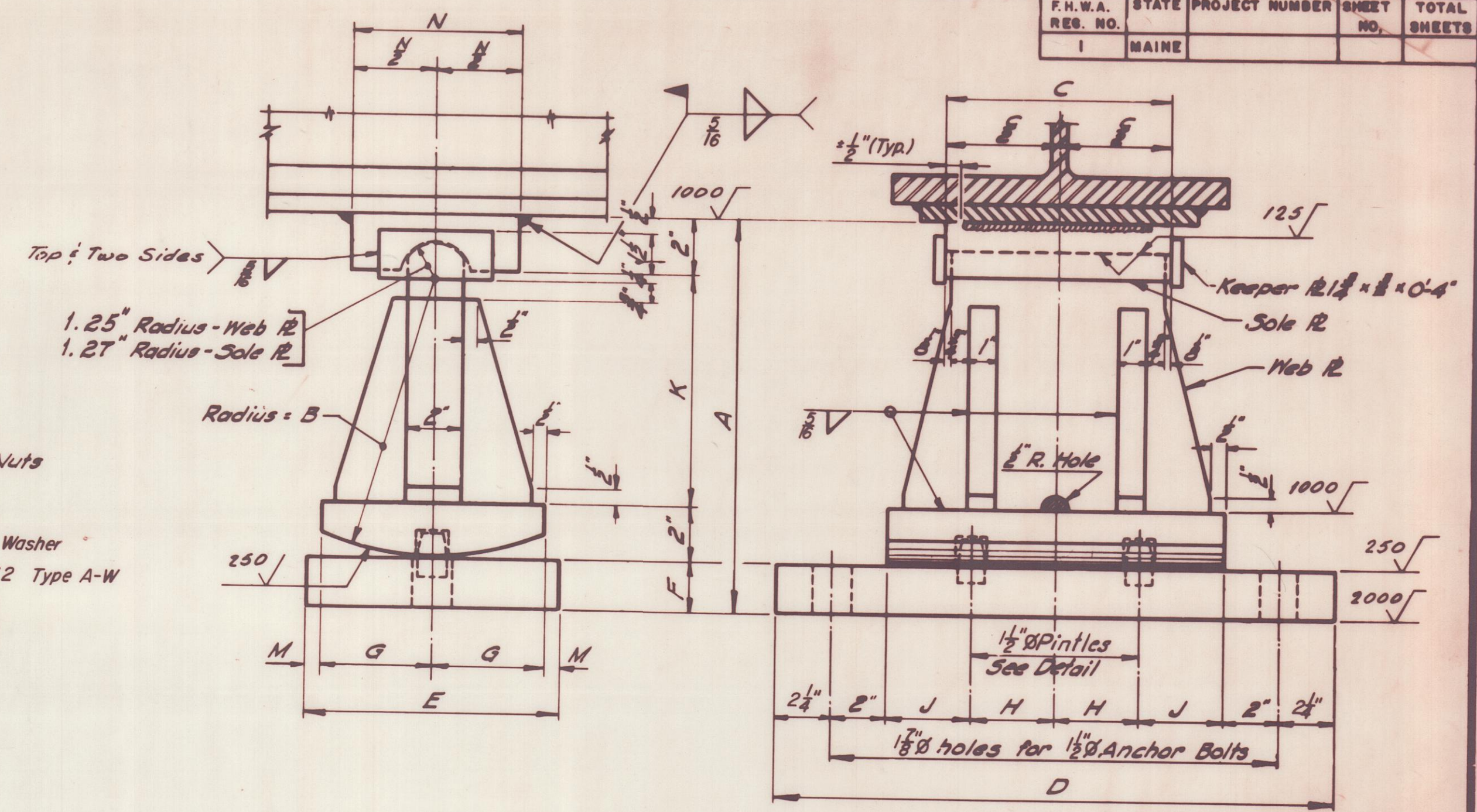
PINTLE DETAIL



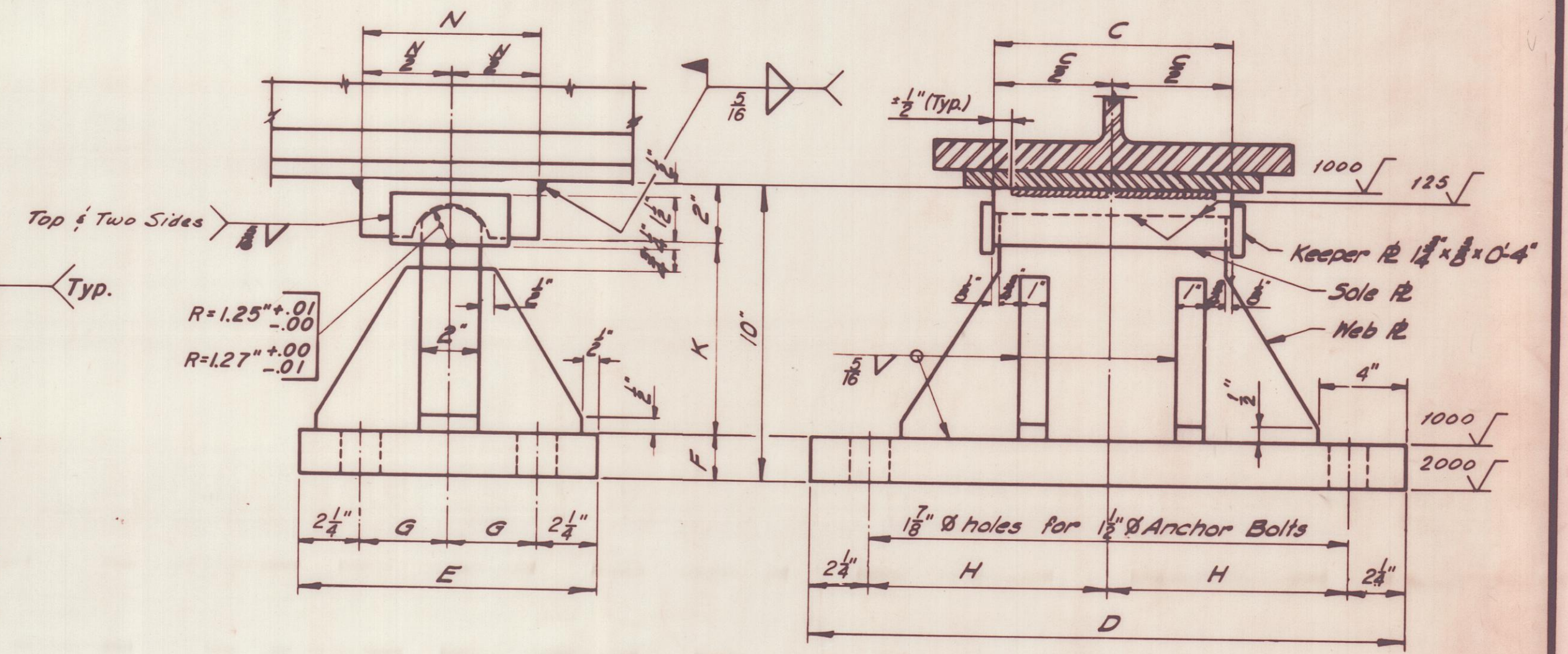
ANCHOR BOLT DETAIL



MASONRY PLATE



EXPANSION PEDESTAL - EPC



FIXED PEDESTAL - FPC

PEDESTALS - ALLOWABLE LOADS & DIMENSIONS														
Pedestal	Load	A	B	C	D	E	F	G	H	J	K	L	M	N
EPA	132 ^K	-	-	-	-	-	-	-	-	-	8"	4"	3 1/2"	5 1/2"
FPA	130 ^K	-	-	-	-	-	-	-	-	-	-	-	-	-
EPB-1	120 ^K	-	6"	8"	1'-7 1/2"	8"	10"	6"	7 1/2"	2"	8"	4"	3 1/2"	5 1/2"
EPB-2	165 ^K	-	7"	10"	1'-8 1/2"	9"	1'-0"	7"	8"	3"	10"	5"	3 1/2"	6 1/2"
EPB-3	250 ^K	-	8"	1'-1"	2'-0 1/2"	10"	1'-4"	8"	10"	4 1/2"	1'-2"	5"	4 1/2"	8 1/2"
FPB-1	120 ^K	-	6"	8"	1'-7 1/2"	8"	-	-	7 1/2"	2"	-	-	-	-
FPB-2	165 ^K	-	7"	10"	1'-8 1/2"	9"	-	-	8"	3"	-	-	-	-
FPB-3	250 ^K	-	8"	1'-2"	2'-0 1/2"	10"	-	-	10"	5"	-	-	-	-
EPC-1	100 ^K	9 1/2"	6"	8"	1'-8 1/2"	8"	1'-3 1/2"	3"	3"	4 1/2"	-	1"	6"	-
EPC-2	150 ^K	11 1/2"	8"	8"	1'-8 1/2"	8"	1'-3 1/2"	3"	3"	6 1/2"	-	1"	6"	-
EPC-3	200 ^K	1'-2"	10"	8"	1'-9"	9"	1'-3 1/2"	4"	3 1/2"	8 1/2"	-	1"	7"	-
EPC-4	250 ^K	1'-2"	10"	8"	1'-11"	9"	1'-3 1/2"	4"	4 1/2"	8 1/2"	-	1"	7"	-
EPC-5	300 ^K	1'-2 1/2"	10"	9"	2'-1"	10"	2"	4 1/2"	5 1/2"	8 1/2"	-	1"	8"	-
EPC-6	350 ^K	1'-4 1/2"	1'-0"	10"	2'-1"	1'-0"	2 1/2"	5"	5 1/2"	10 1/2"	-	1"	8"	-
EPC-7	400 ^K	1'-4 1/2"	1'-0"	1'-0"	2'-3 1/2"	1'-0"	2 1/2"	5"	5 1/2"	10 1/2"	-	1"	8"	-
FPC-1	200 ^K	-	8"	1'-8 1/2"	9 1/2"	1'-4"	2 1/2"	8"	-	6 1/2"	-	-	6"	-
FPC-2	250 ^K	-	8"	1'-8 1/2"	10 1/2"	1'-4"	3"	8"	-	6 1/2"	-	-	7"	-
FPC-3	300 ^K	-	9"	2'-0 1/2"	10 1/2"	1'-4"	3"	10"	-	6 1/2"	-	-	8"	-
FPC-4	350 ^K	-	10"	2'-0 1/2"	1'-0 1/2"	1'-4"	4"	10"	-	6 1/2"	-	-	8"	-
FPC-5	400 ^K	-	1'-0"	2'-2 1/2"	1'-0 1/2"	2"	4"	11"	-	6"	-	-	8"	-

MATERIALS

- All steel, including the anchor bolts, shall be ASTM A572, Grade 50. For unpainted applications, ASTM A588 steel shall be used. ASTM A588 steel may also be used as an alternate for ASTM A572 steel.
- Nuts for painted applications shall conform to ASTM A563, Heavy Hex, Grade A. Nuts for unpainted applications shall conform to ASTM A563, Heavy Hex, Grade C3 or DH3.
- Charpy V-Notch tests are not required for steel used in bearing pedestals.

GENERAL NOTES

- Bearings for use with painted structural steel shall be painted to conform to Section 504.36 of the Standard Specifications.
- Upset threads on anchor bolts after assembly.
- If there is a conflict between these Standard Details and the Design Drawings, the Design Drawings shall be followed.

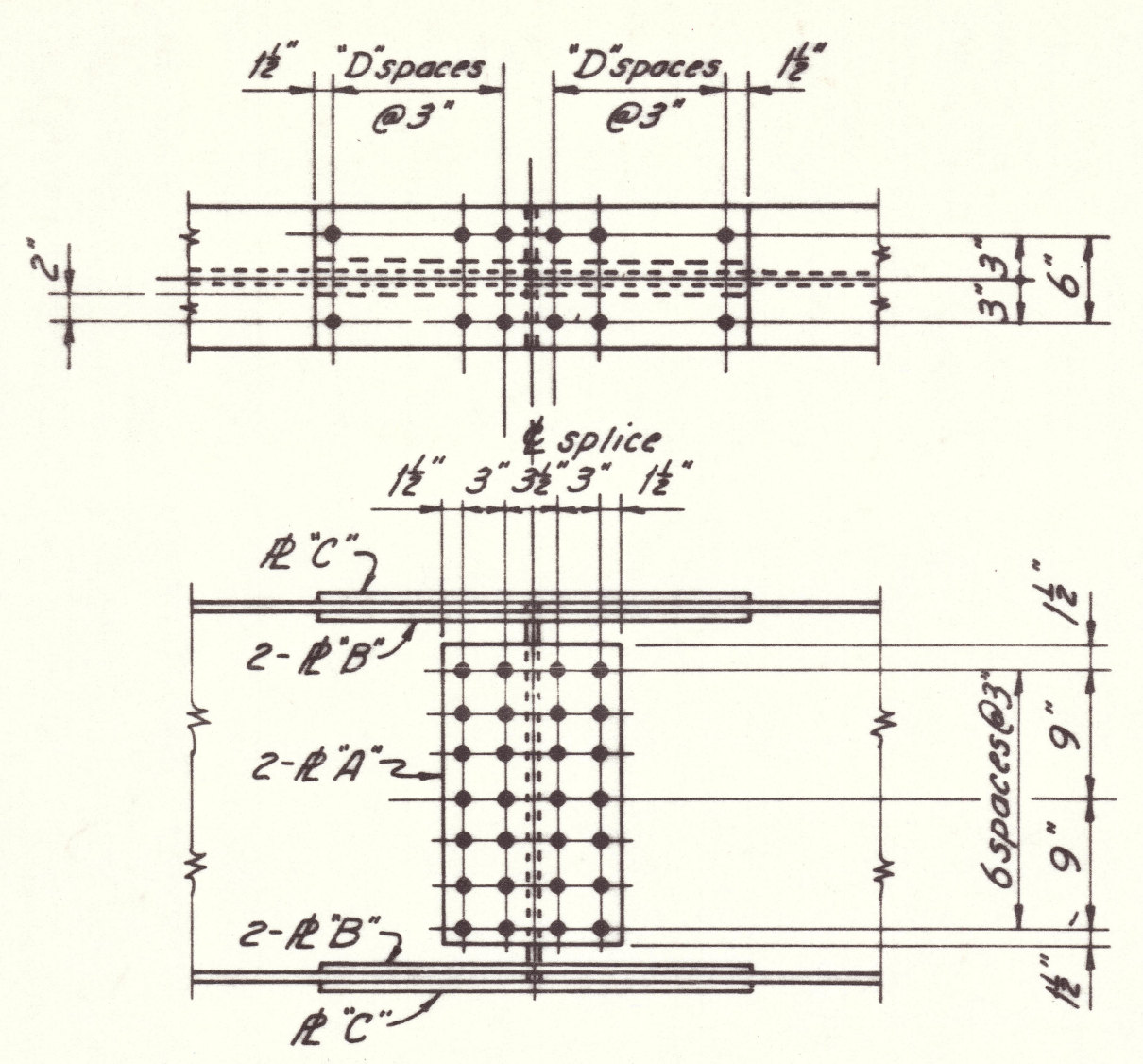
REVISIONS	APPROVED		
	Description	Me.DOT	FHWA
Original Plan	FEB. 1989	MAR. 16, 1989	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

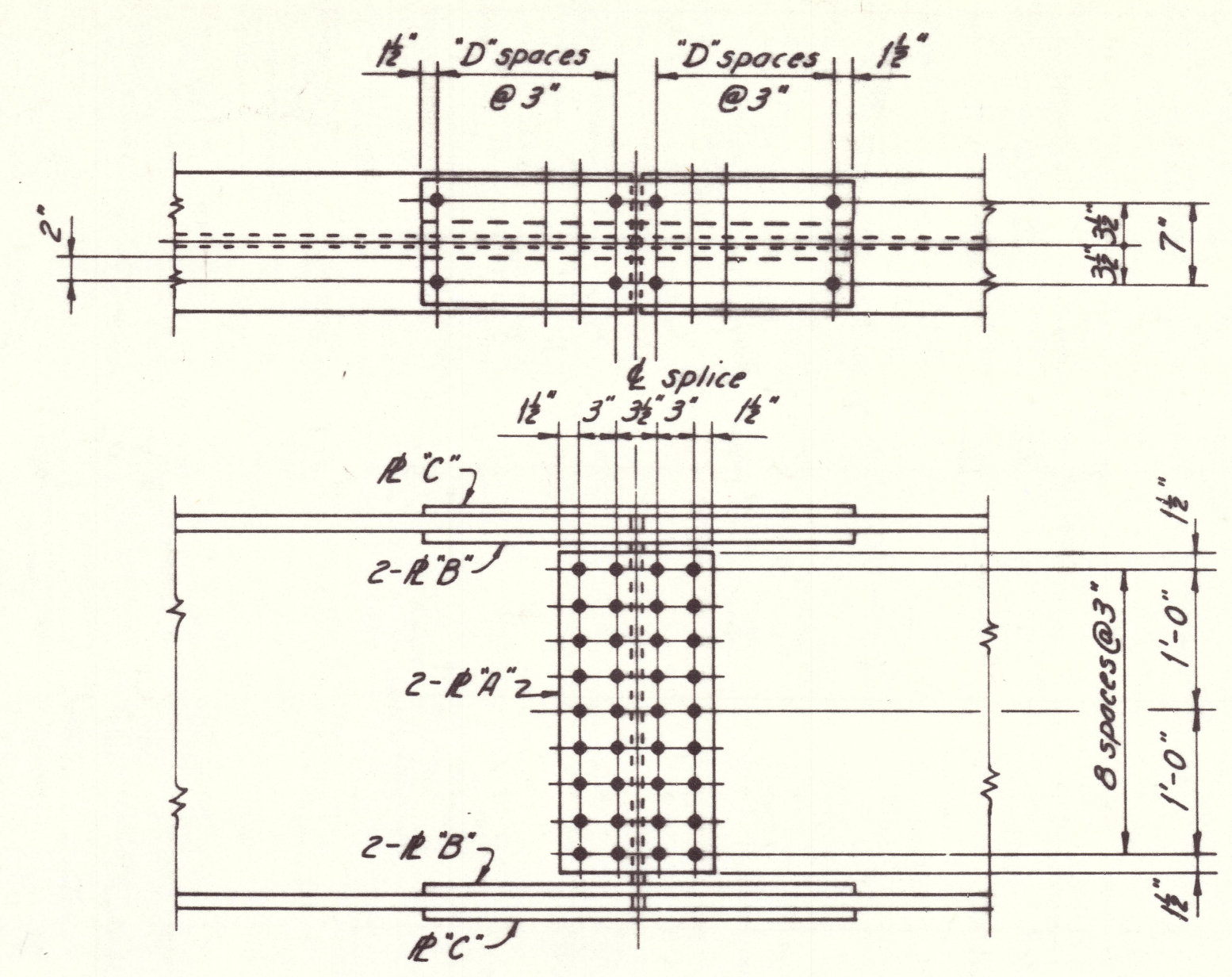
MAINE TURNPIKE
STANDARD DETAILS
BD 101 - 89

BEARING PEDESTALS

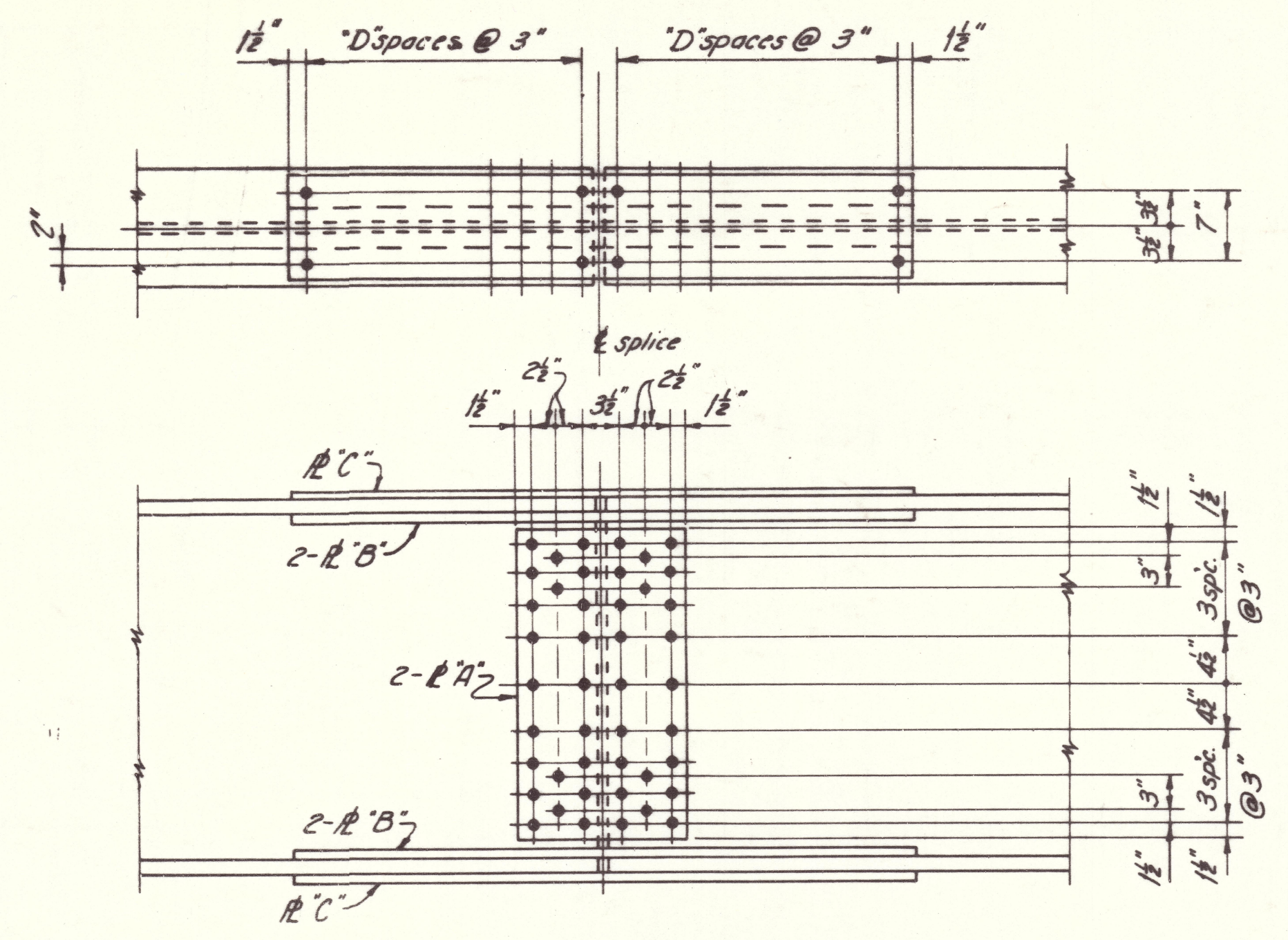
SHEET OF Feb. 1989



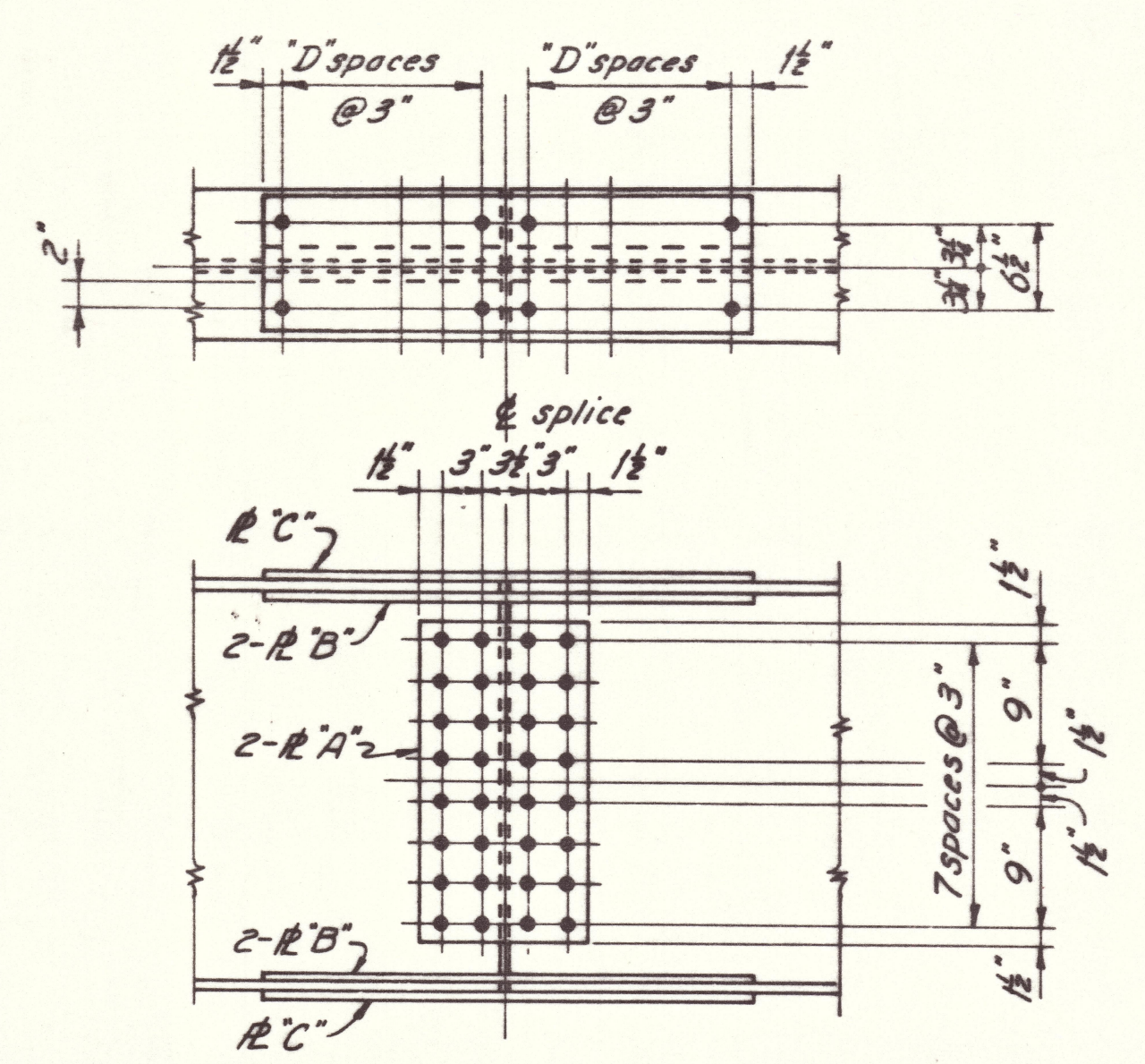
W27 x 84, 94, 102, 114



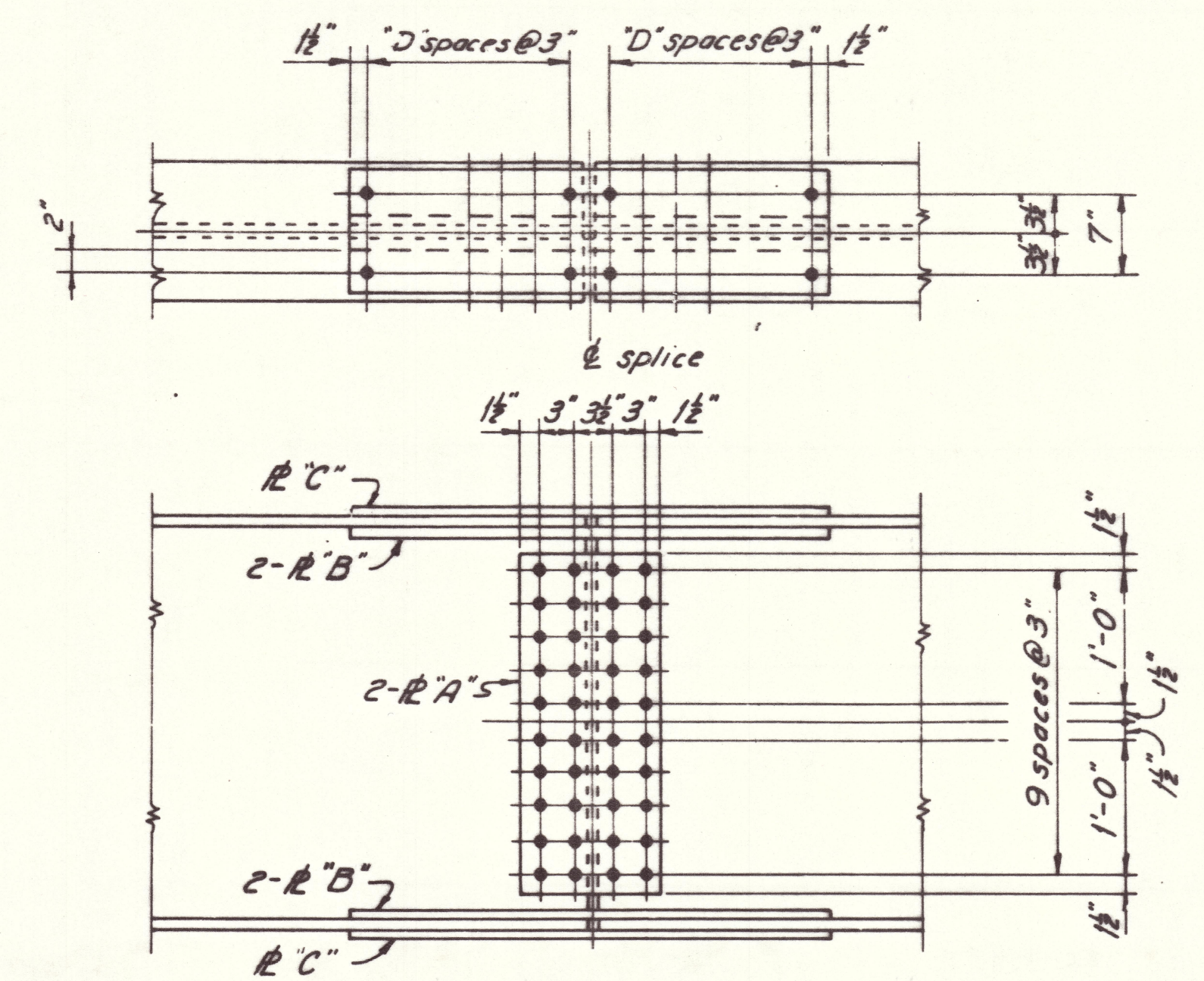
W33 x 118, 130, 141, 152



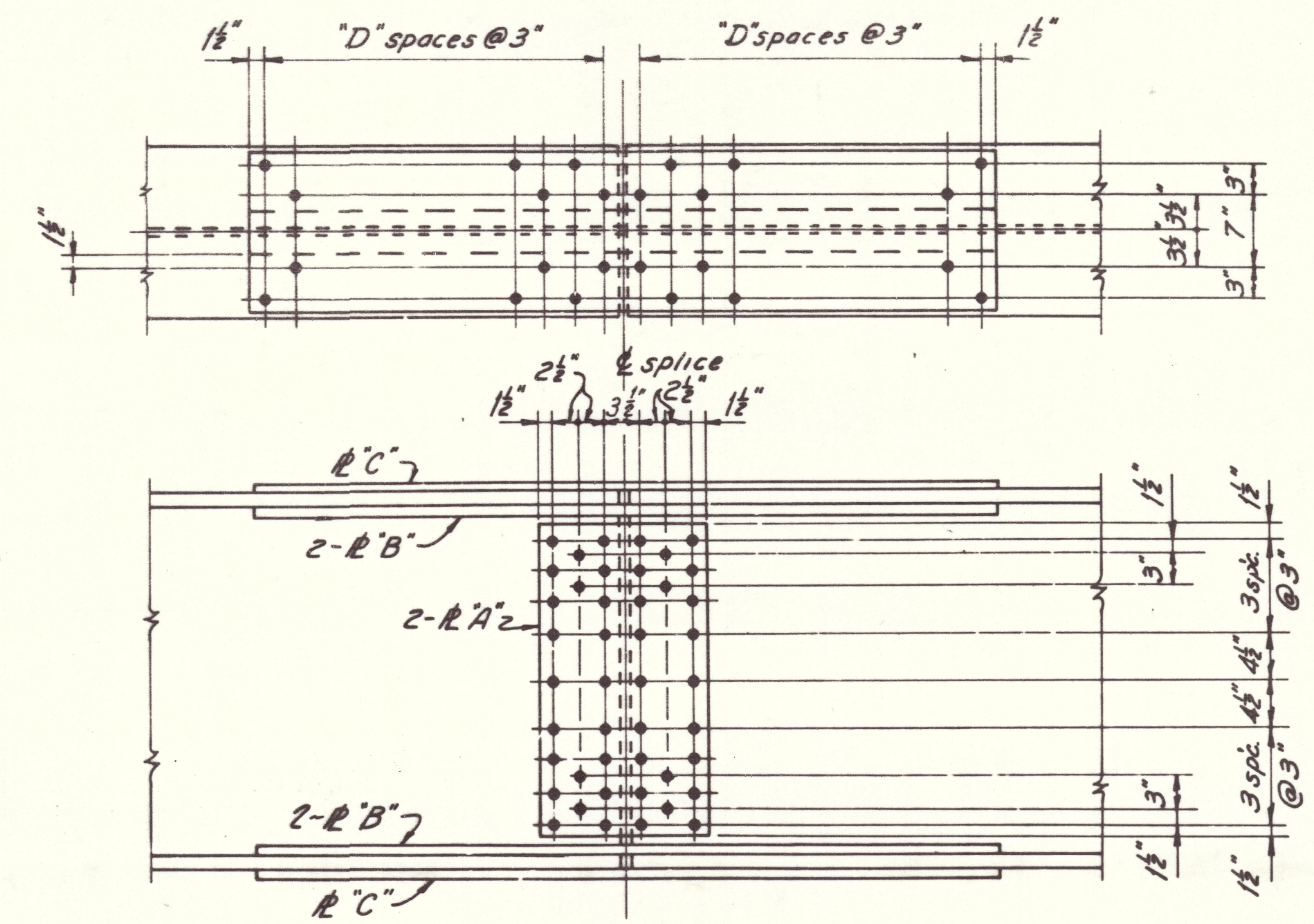
W36 x 182, 194, 210



W30 x 99, 108, 116, 124, 132



W36 x 135, 150, 160, 170



W36 x 230, 245, 260, 280, 300

SPLICE PLATES AND FLANGE HOLES				
BEAM	PLATE 'A'	PLATE 'B'	PLATE 'C'	'D'
W27 x 84	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 94	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 102	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 114	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	4
W30 x 99	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 108	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 116	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	3
x 124	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	4
x 132	12 1/2" x 1/2"	4" x 1/2"	10" x 1/2"	4
W33 x 118	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	3
x 130	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	4
x 141	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	4
x 152	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	5
W36 x 135	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	4
x 150	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	5
x 160	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	5
x 170	12 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	6
x 182	16 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	6
x 194	16 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	6
x 210	16 1/2" x 1/2"	4" x 1/2"	11" x 1/2"	7
x 230	16 1/2" x 1/2"	6" x 1/2"	16" x 1/2"	9
x 245	16 1/2" x 1/2"	6" x 1/2"	16" x 1/2"	9
x 260	16 1/2" x 1/2"	6" x 1/2"	16" x 1/2"	11
x 280	16 1/2" x 1/2"	6" x 1/2"	16" x 1/2"	11
x 300	16 1/2" x 1/2"	6" x 1/2"	16" x 1/2"	13

GENERAL NOTES

- 1.) Splice connections shall be made with 7/8" Ø ASTM A325 high tensile strength bolts. Holes shall be 15/16" Ø.
- 2.) Web and flange filler plates shall be used as required when splicing beams of different sizes. Filler plates of 1/16" or less in thickness are not required.
- 3.) If beams of different sizes are to be spliced, use splice details shown for the smaller of the beams being spliced unless otherwise directed by design drawings.
- 4.) For material specifications and details not shown, refer to design drawings.
- 5.) If there is a conflict between this standard detail and the design drawings, the requirements of the design drawings shall be followed.

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		
PLANS		

REVISIONS	APPROVED	
	Me.DOT	FHWA
Description		
Original Plan	FEB. 1989	MAR. 16, 1989

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

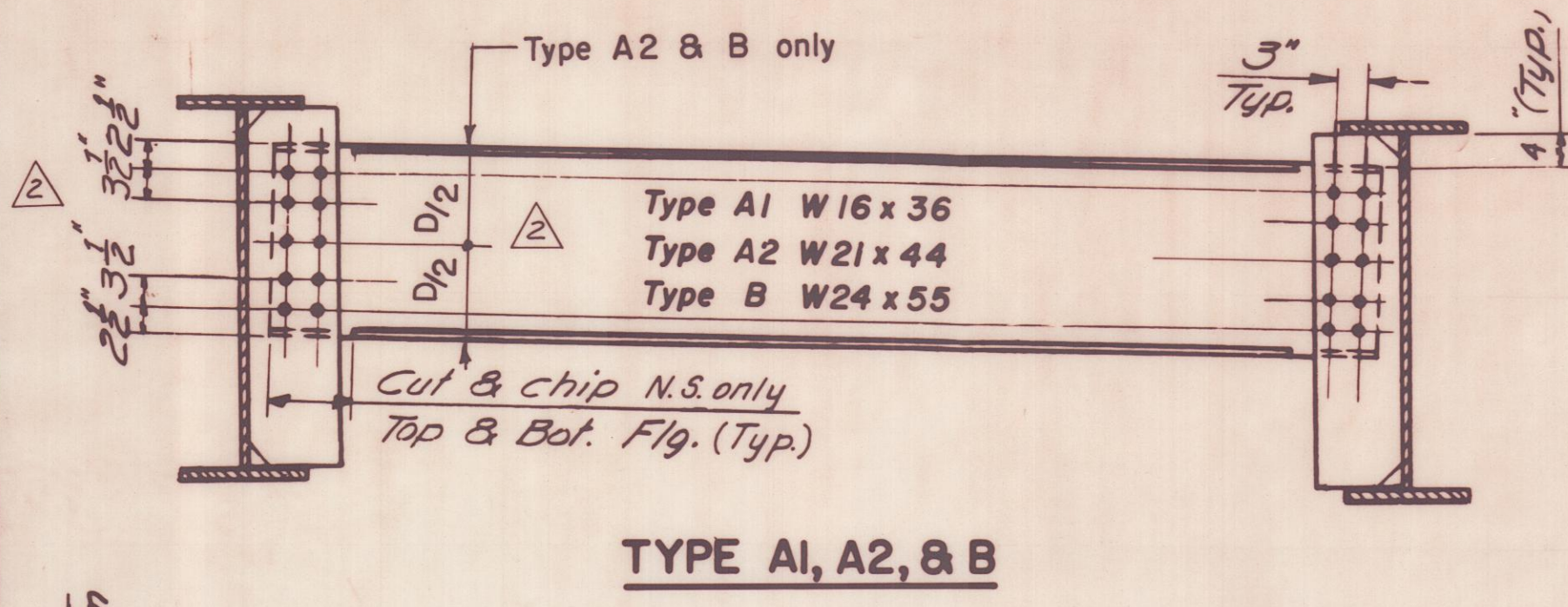
MAINE TURNPIKE
STANDARD DETAILS
BD III - 89

BEAM SPLICES
ROLLED BEAMS

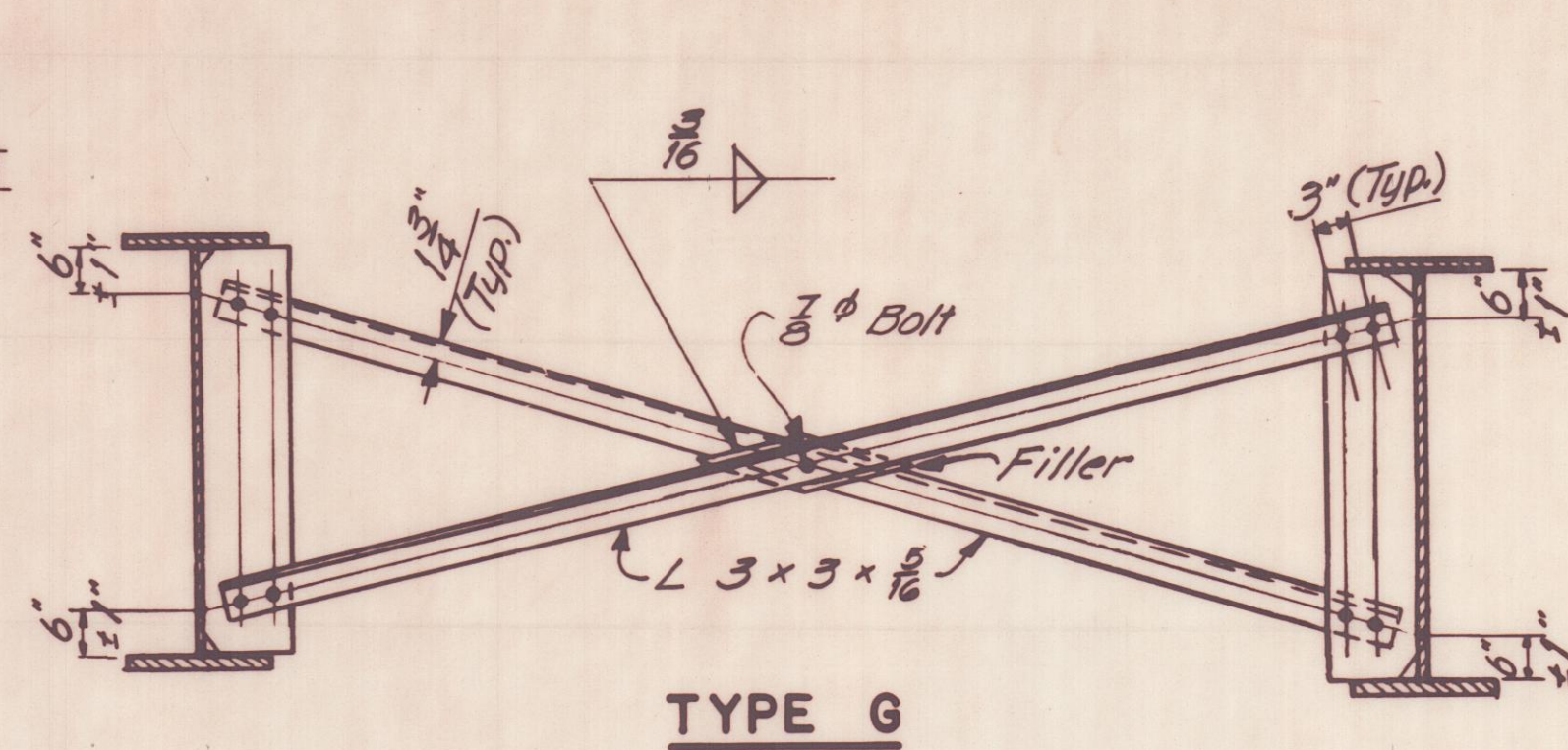
SHEET OF Feb. 1989

FABRICATION NOTES

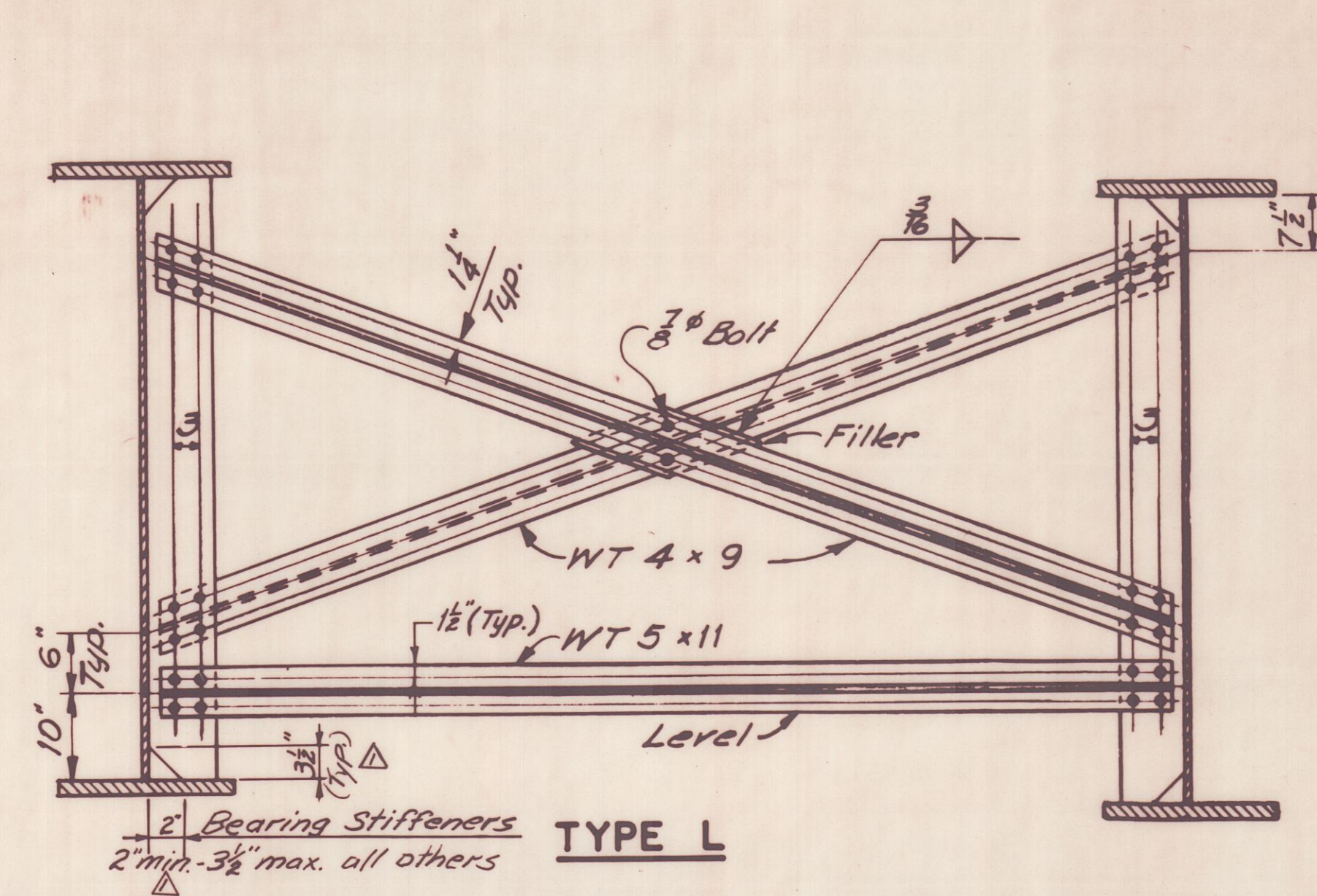
- All bolts shall be $\frac{7}{8}$ " H.S. Bolts. Hole sizes for bolts shall conform to Section 504.23 of the Standard Specifications, and edge-distances shall be $\frac{1}{2}$ " min. unless otherwise shown.
- Connection plates and gusset plates shall have a minimum thickness of $\frac{3}{8}$ " and shall have sufficient width to provide erection clearance. Connection plates shall have a minimum width of 7". For all stiffeners and bent connection plates, the plate thickness will be given on the design drawings.
- Depending on the skew-angle, stiffeners and connection plates shall be welded to the web plates with either fillet welds or a single bevel groove weld. Fillet welds shall be the minimum size specified by the AWS Structural Welding Code D1.1, table 2.7, unless otherwise shown on the design drawings. Fit-up shall meet the requirements of AWS D1.1, Art. 3.3, Assembly.
- All stiffeners and connection plates shall extend to both the top and bottom flanges and shall be welded to the flanges with a fillet weld on both sides of the plate, except as indicated by note 5 and/or 6. Fillet weld size shall be as specified under note 3.
- Connection plates and stiffeners used as connection plates shall be connected to flanges in tension and stress reversal areas with the "Tension-Flange Connection" detail. All other stiffeners shall fit within $\frac{1}{16}$ " (tight fit) at flanges in tension and stress reversal areas and shall not be welded.
- Bearing stiffeners through $\frac{3}{4}$ " inch thick shall be connected to the bottom flange with a full penetration groove weld. Bearing stiffeners over $\frac{3}{4}$ " inch thick shall be connected to the bottom flange with a full penetration double bevel groove weld or shall be machined to have full bearing, at the option of the contractor.
- All fillet welds which connect stiffeners or connection plates to either a flange or web plate, shall be started and stopped approximately $\frac{1}{2}$ " inch from the ends or edges of the plate.
- Bolt tension-flange connection plate to flange before welding stiffener or diaphragm connection plate to it.
- All dimensions shown as "___±1" are variable in order to allow a series of crossframes to have the same slopes and/or dimensions.
- For unpainted applications all steel for diaphragms and crossframes shall be A.S.T.M.-A588. For bridges specified to be painted the steel for diaphragms and connection plates shall be A.S.T.M.-A36, except other steel classifications may be used subject to the approval of the Engineer.
- Use only those items called for on the design drawings. In case of conflict between these standard details and design drawings, the design drawings shall be followed.



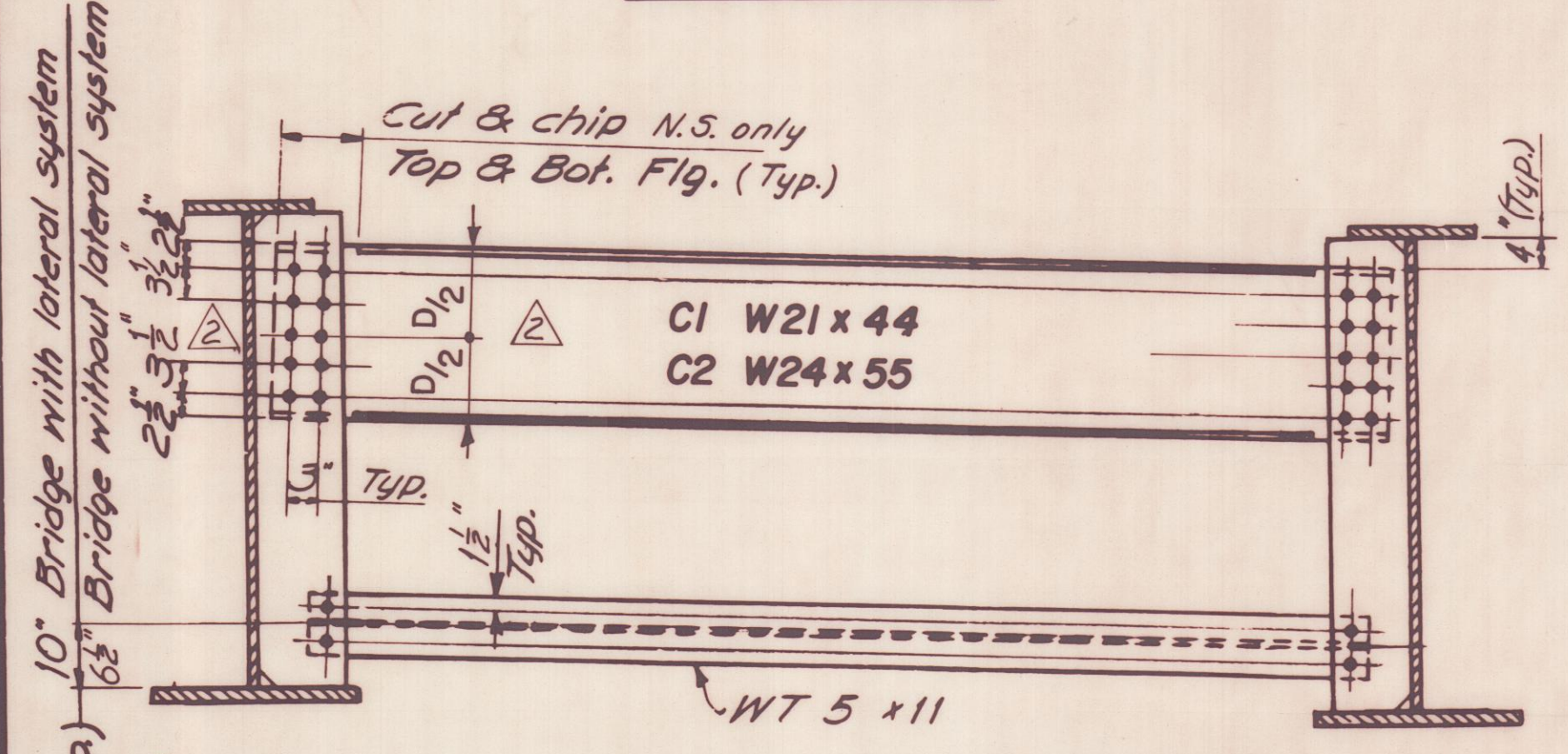
TYPE A1, A2, & B



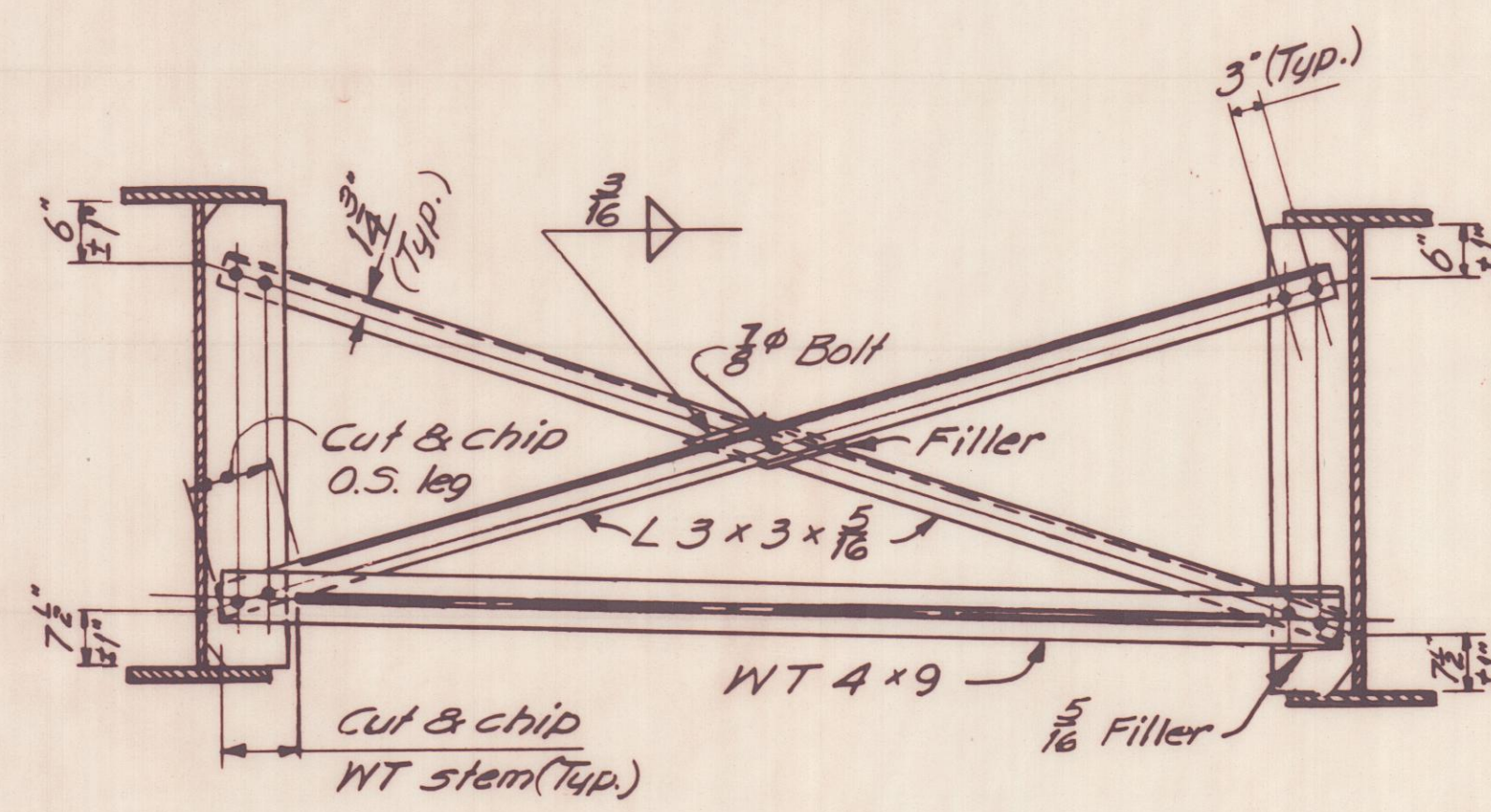
TYPE G



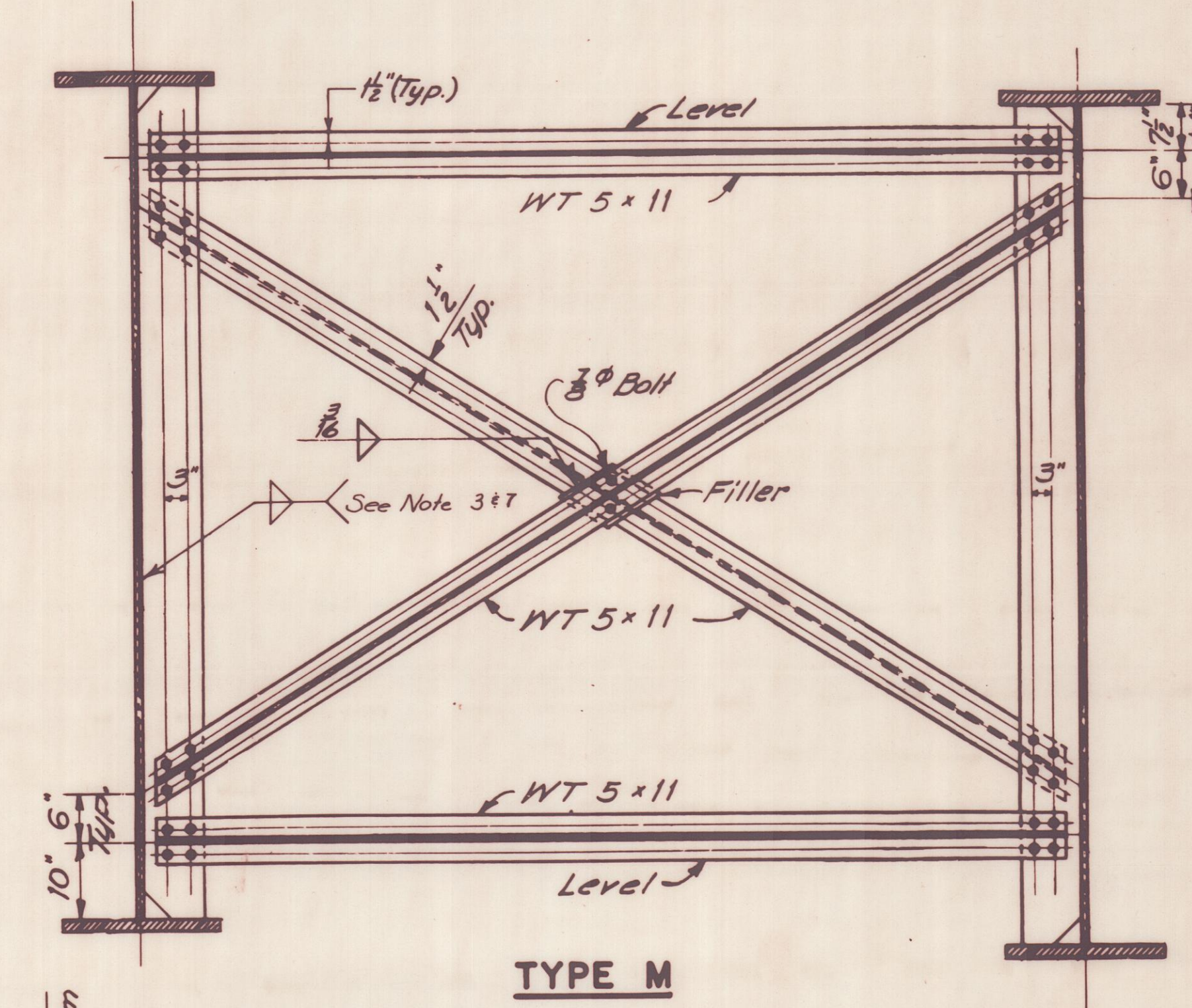
TYPE L



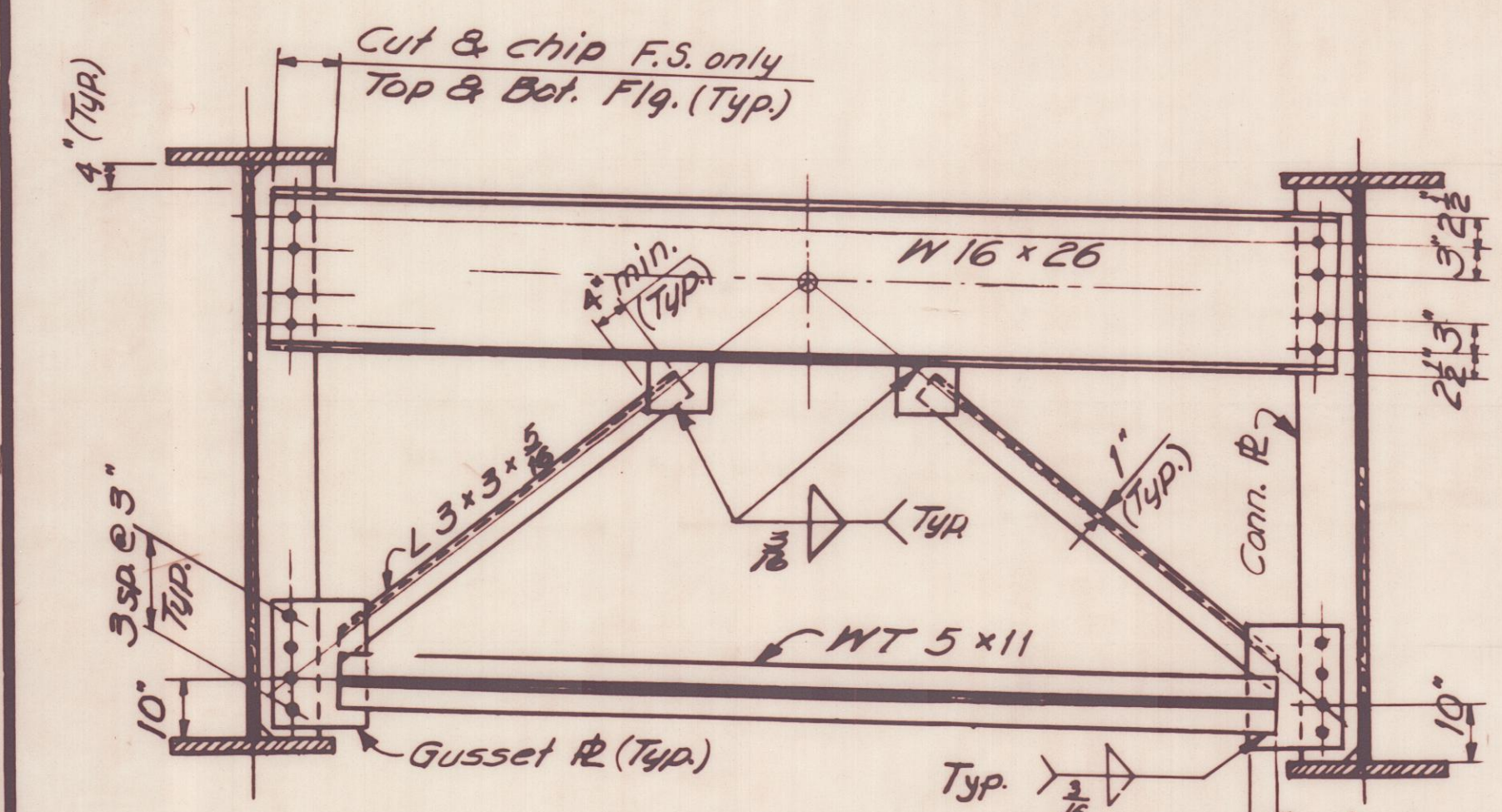
TYPE C1 & C2



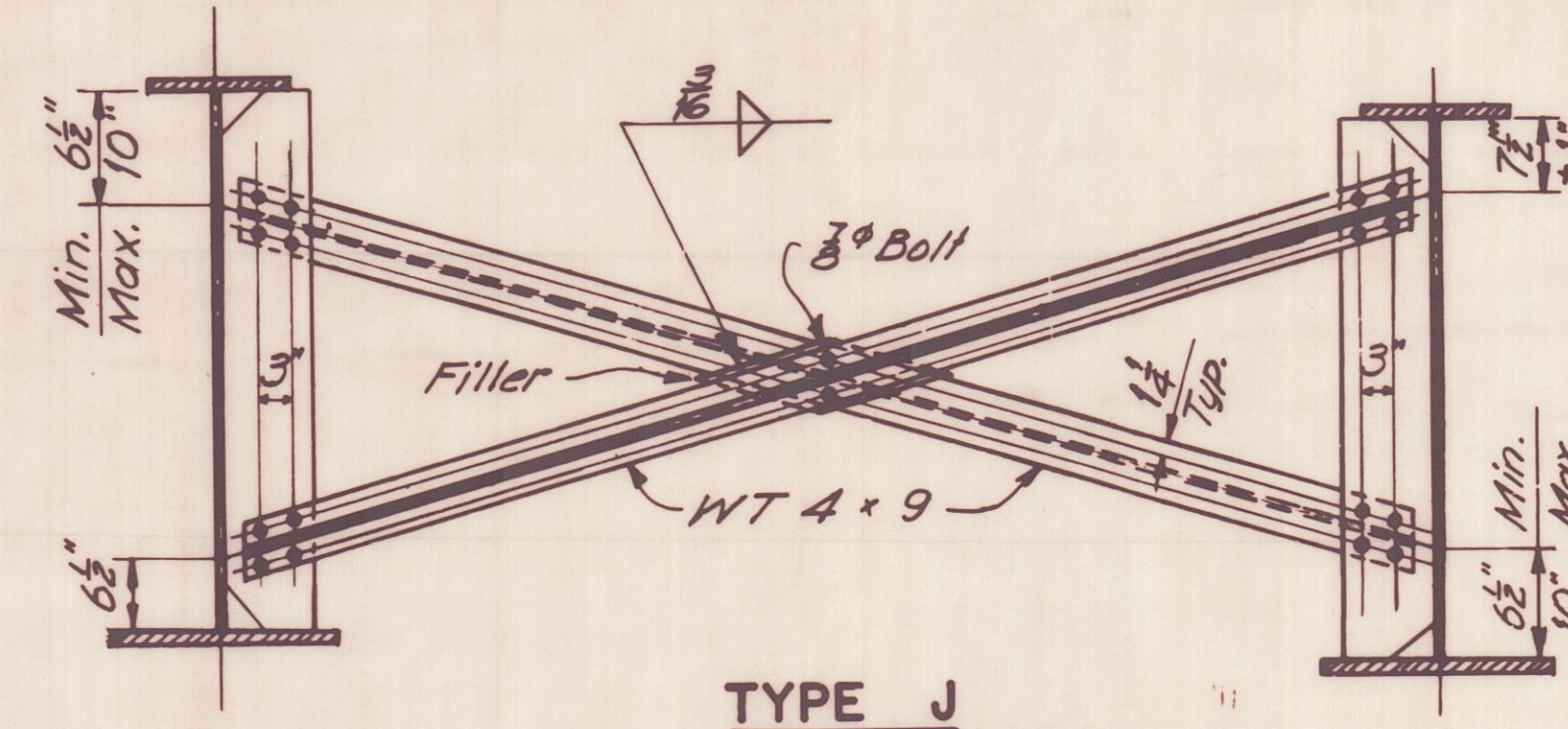
TYPE H



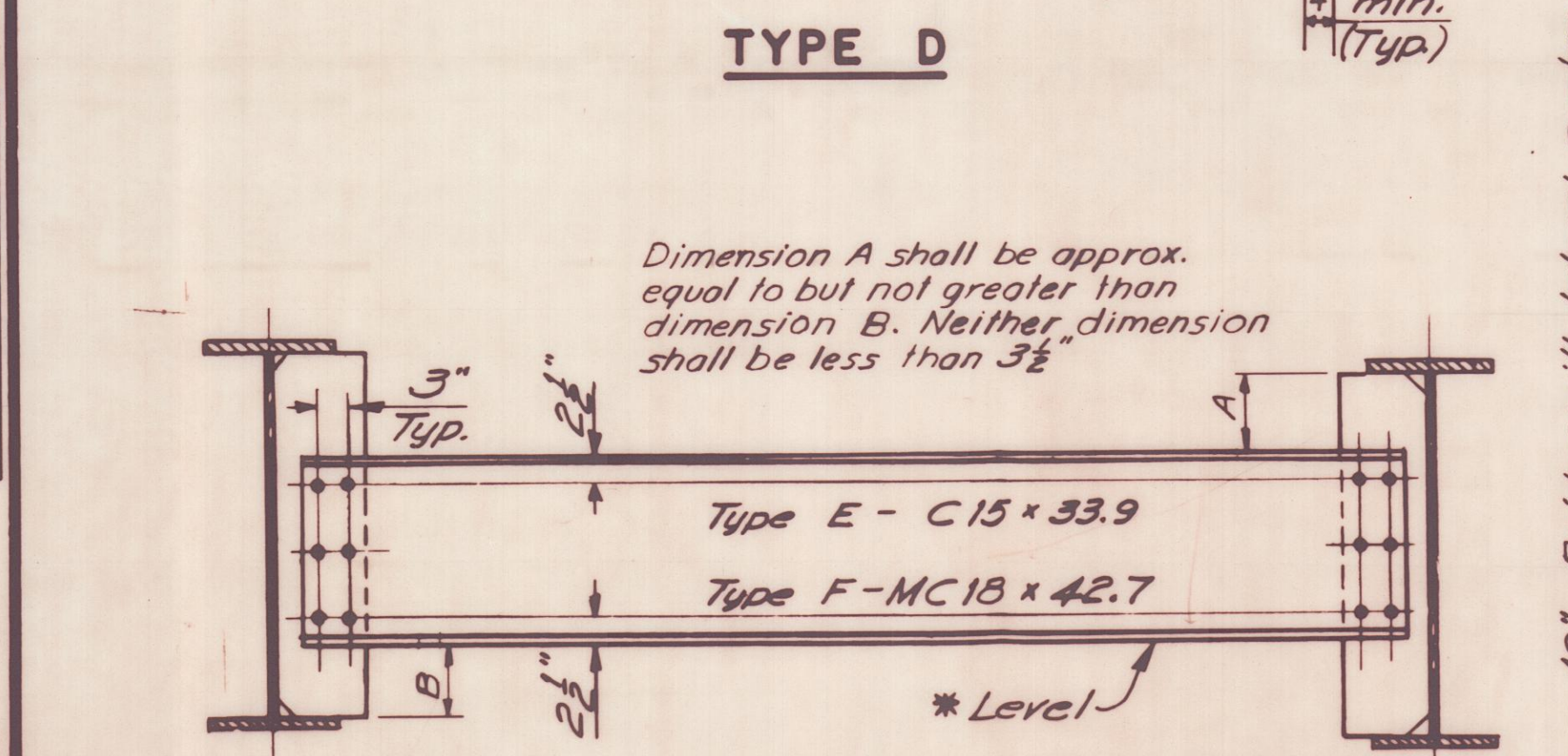
TYPE M



TYPE D



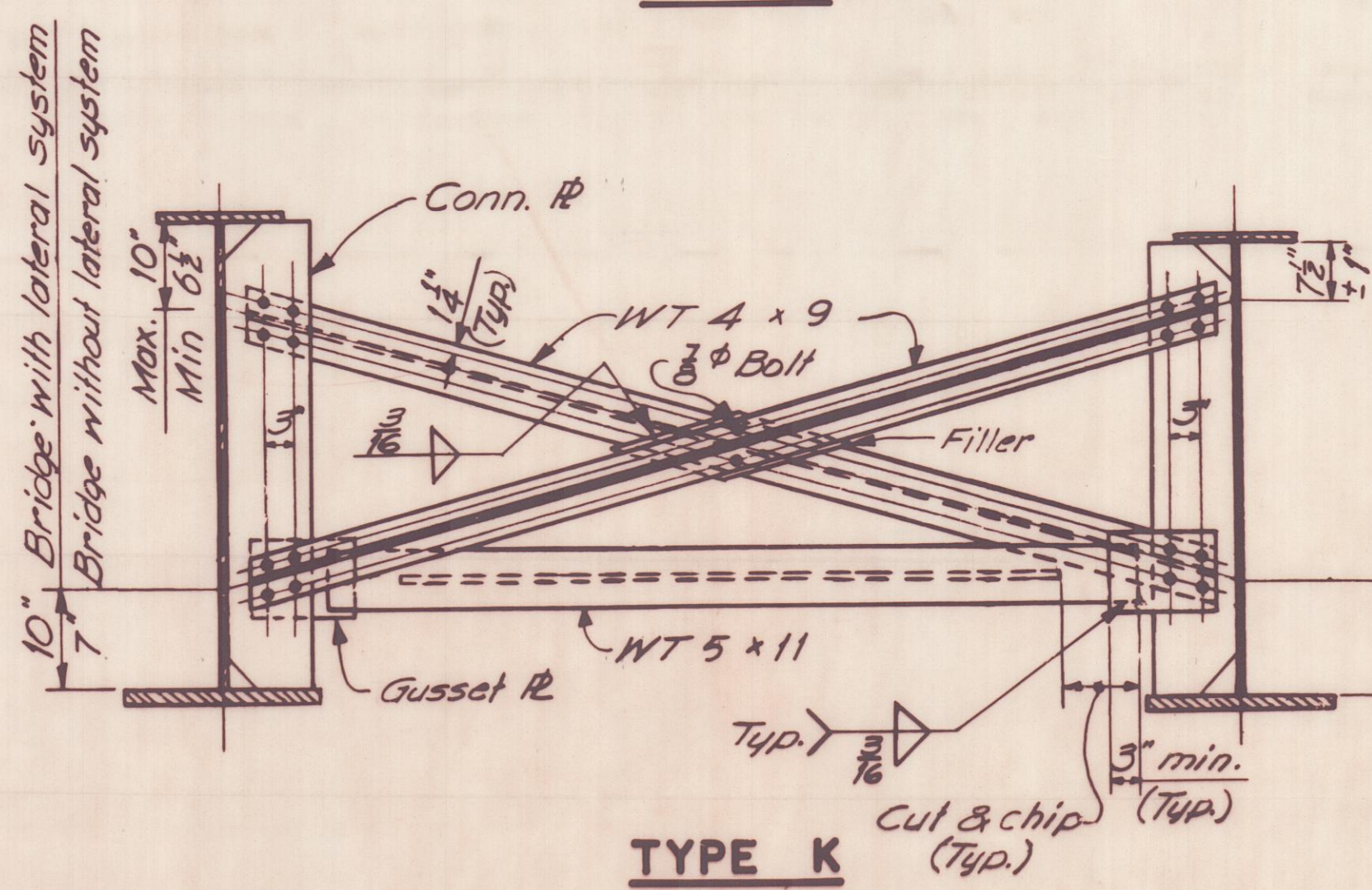
TYPE J



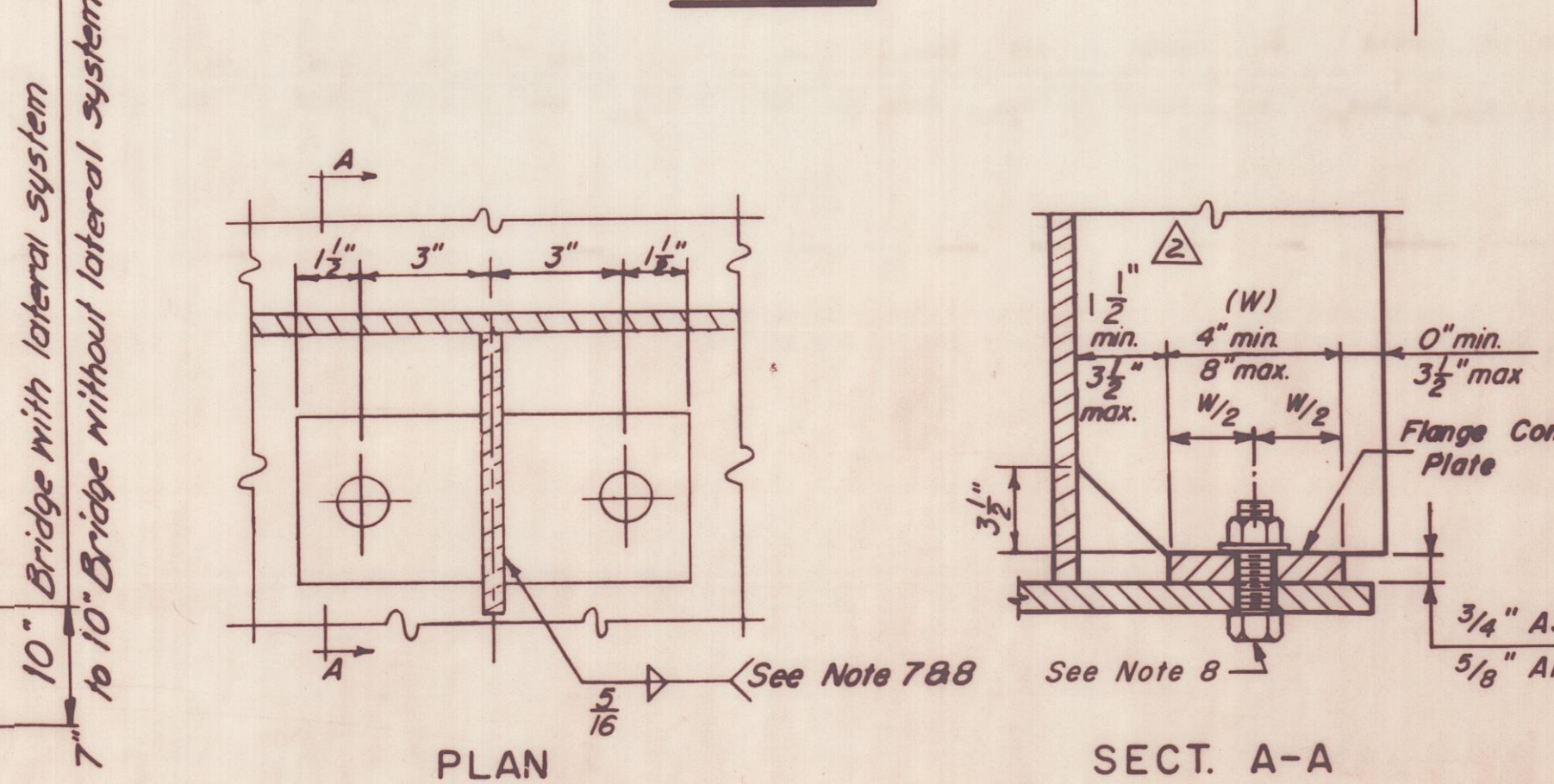
TYPE E & F

Dimension A shall be approx. equal to but not greater than dimension B. Neither dimension shall be less than 3 1/2"

* may be sloped to meet the 3 1/2" min. from flange to channel



TYPE K



TENSION-FLANGE CONNECTION

REVISIONS	APPROVED	
	Me.DOT	FHWA
Original Plan	FEB. 1989	MAR. 16, 1989
Connection Clip	SEP. 1989	
Revision	OCT. 1990	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

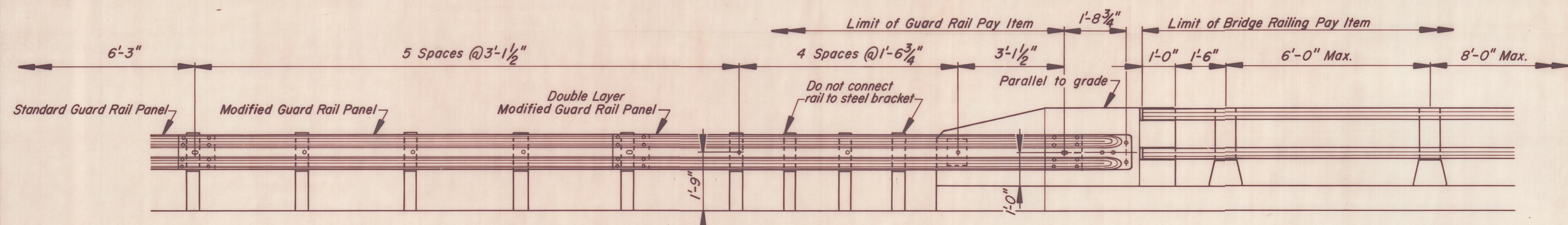
**MAINE TURNPIKE
STANDARD DETAILS**
BD 112 - 89

DIAPHRAGMS & CROSSFRAMES

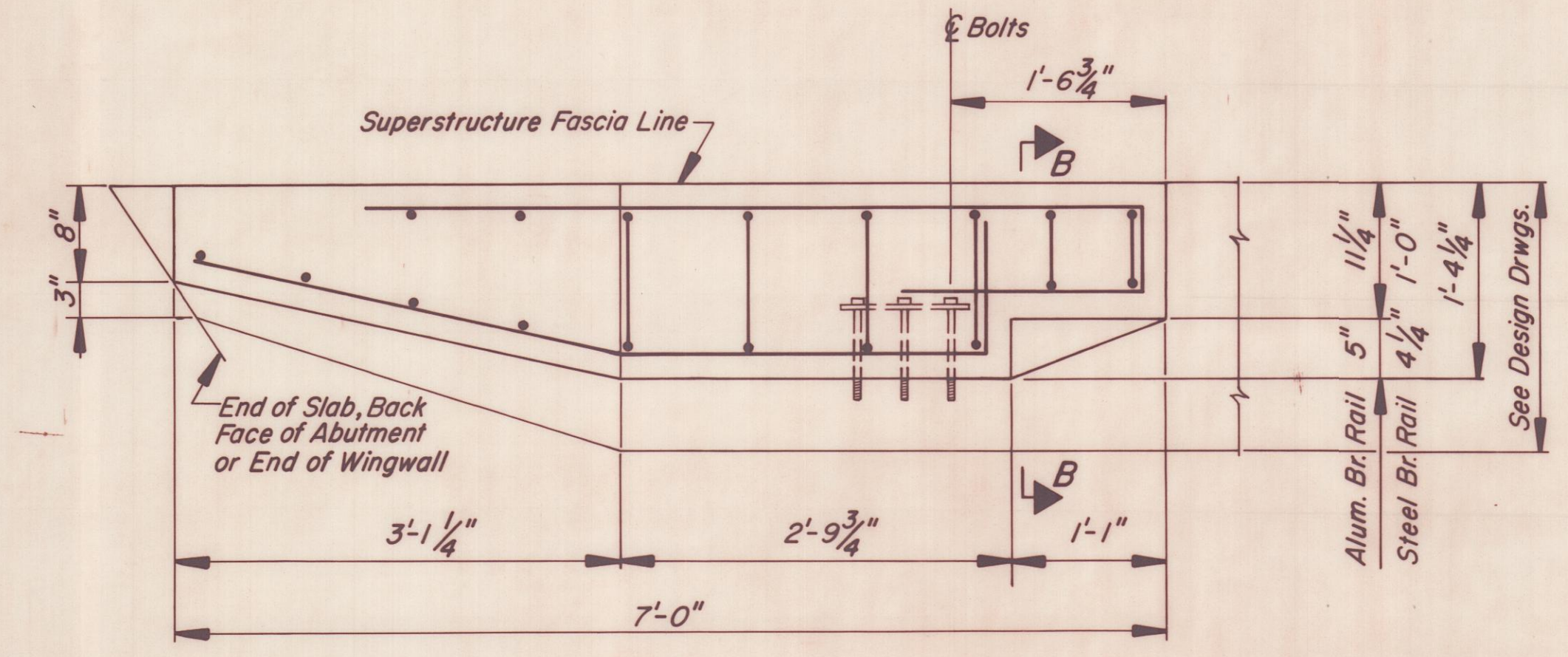
SHEET Cf Feb. 1989

BY	DATE
DESIGN - DETAILED	
CHECKED	
REVISIONS	
FIELD CHANGES	

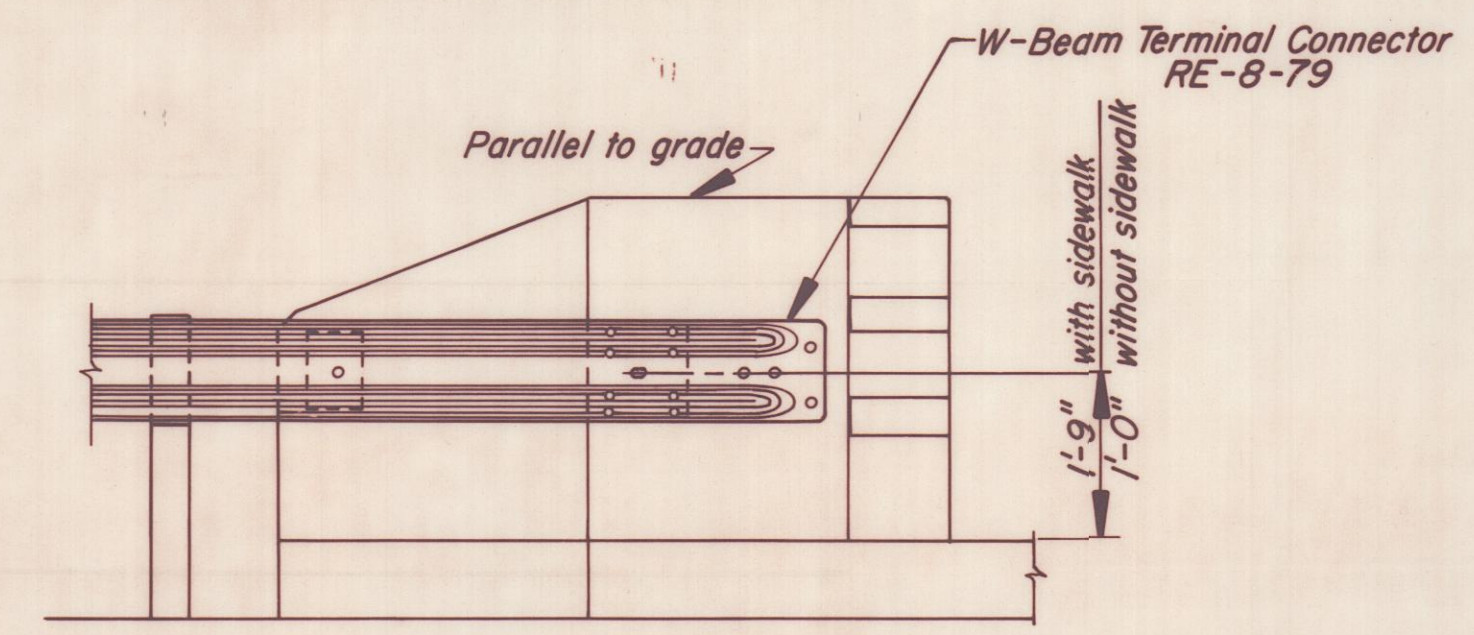
PLANS



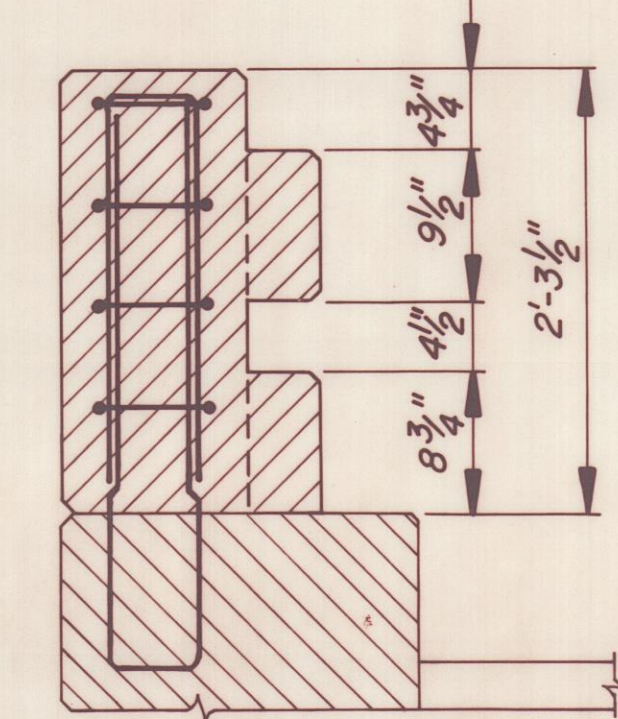
ELEVATION WITH RAILING
2-Bar Bridge Rail (Aluminum or Steel)



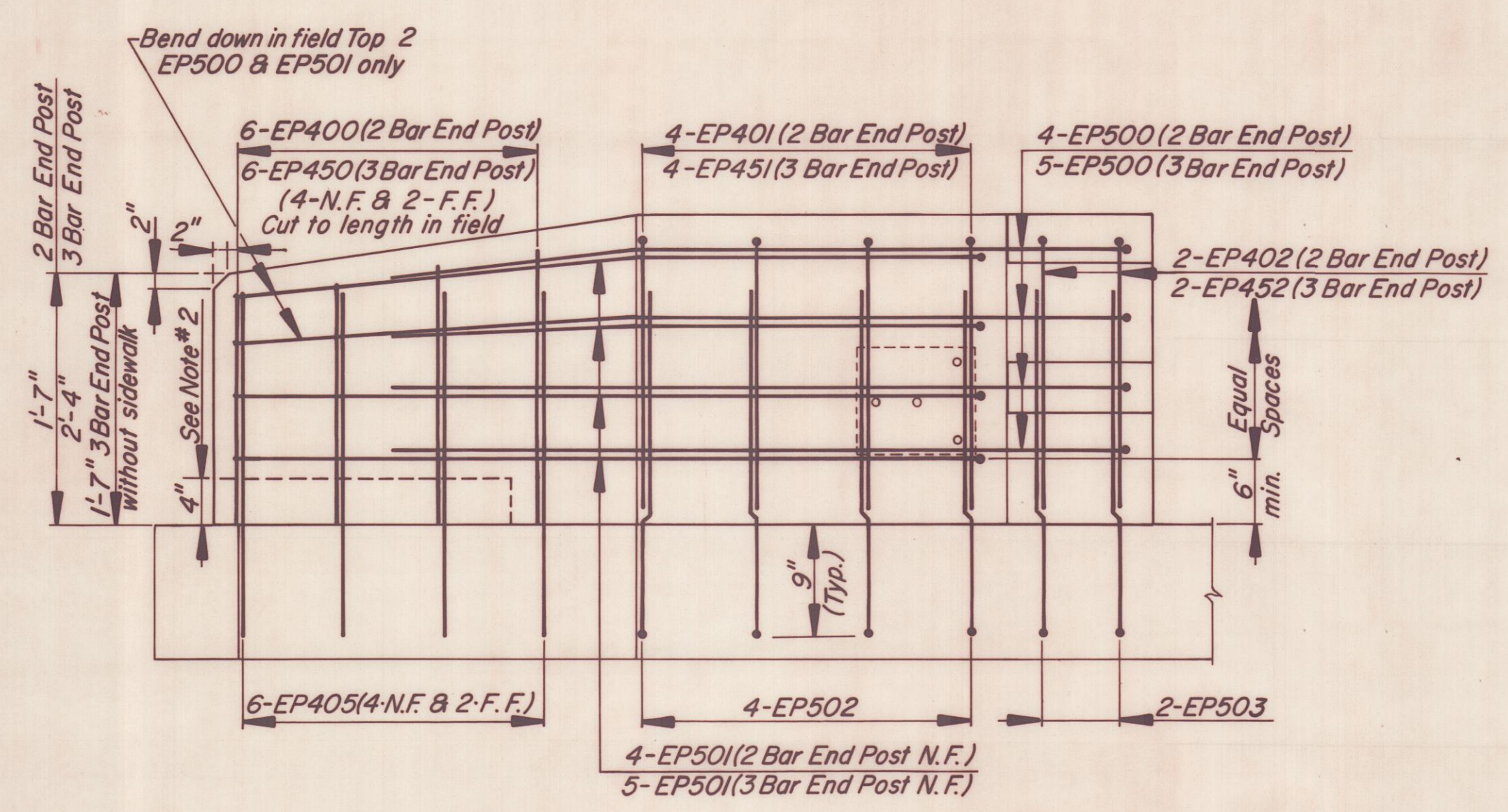
PLAN



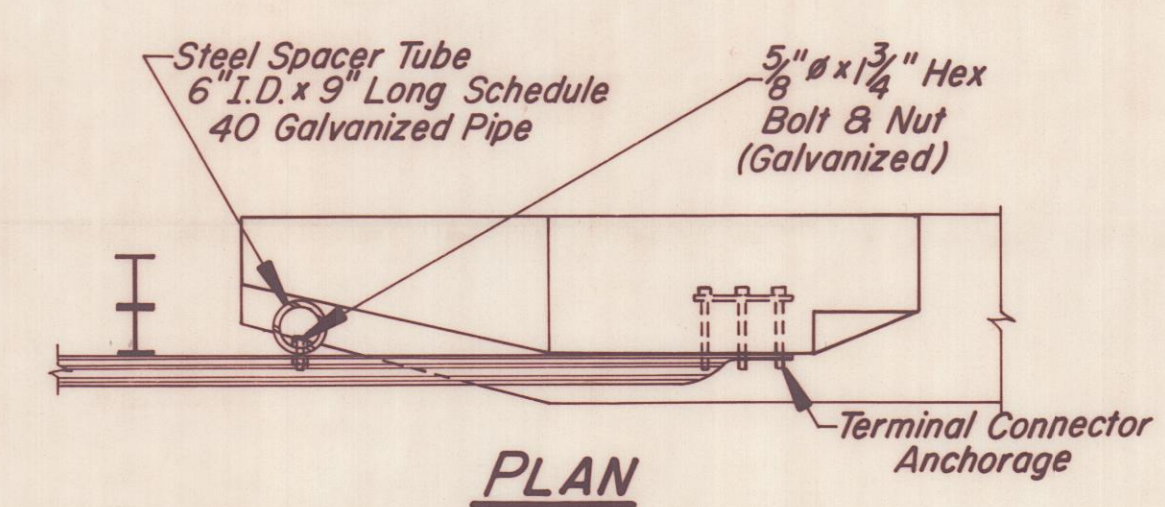
ELEVATION
3-Bar Bridge Rail (Aluminum or Steel)



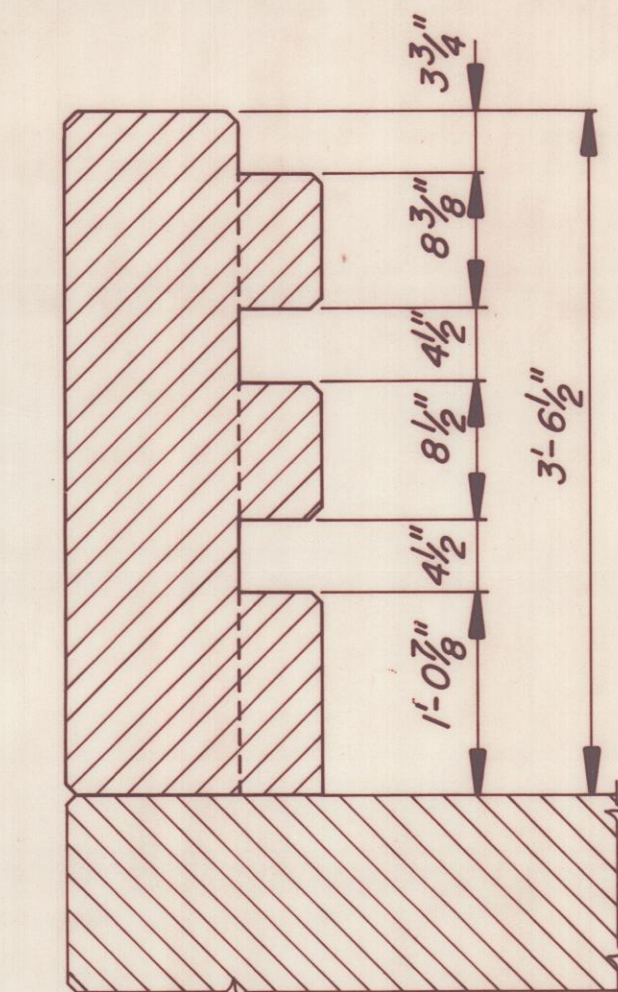
SECTION B-B
2-Bar Bridge Rail (Aluminum or Steel)



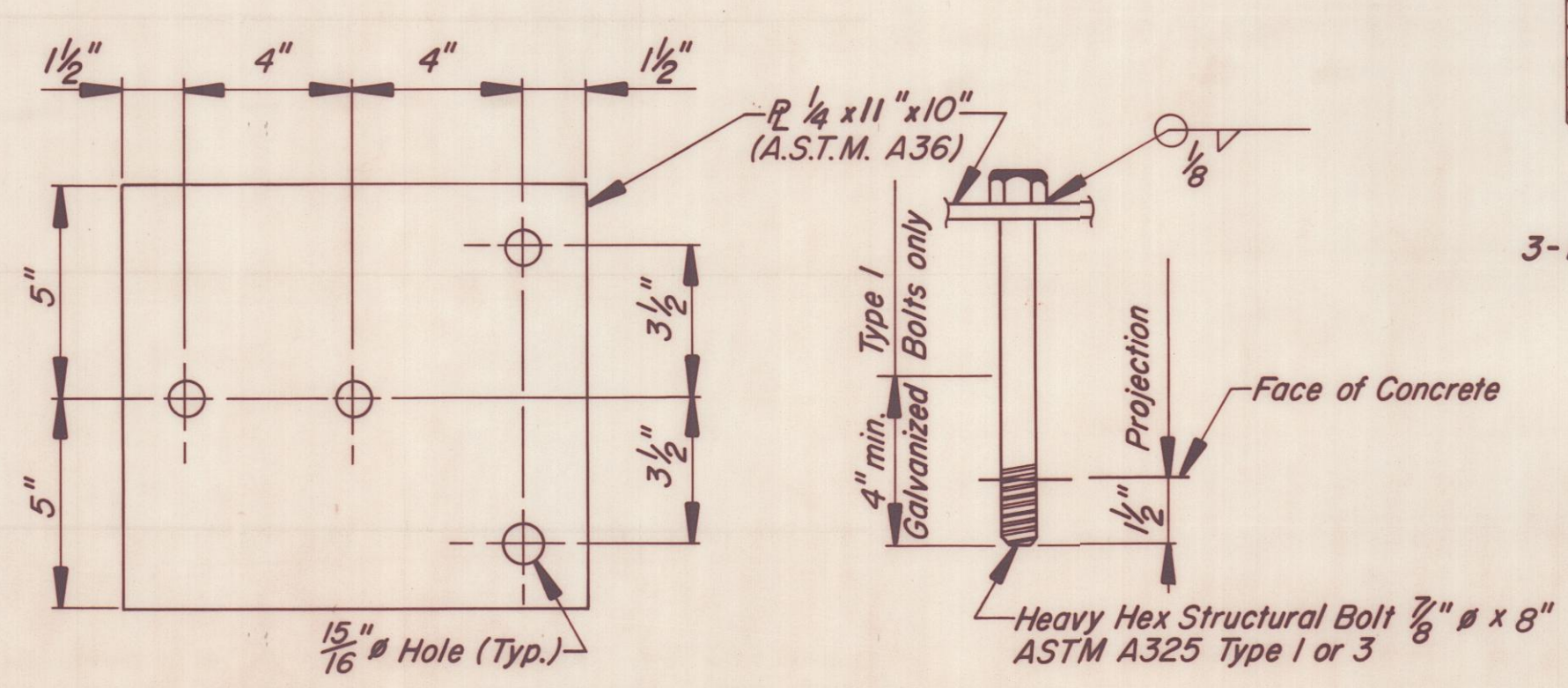
ELEVATION



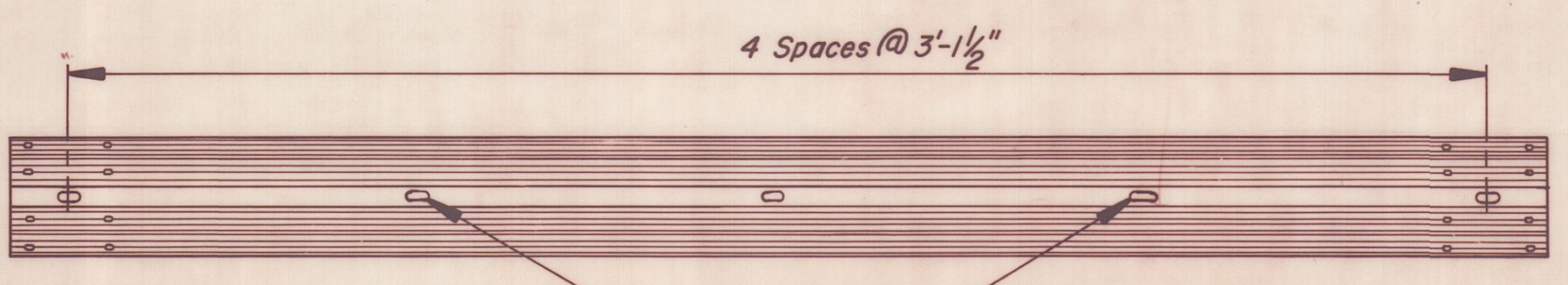
PLAN



SECTION B-B
3-Bar Bridge Rail (Aluminum or Steel)



TERMINAL CONNECTOR ANCHORAGE



MODIFIED GUARD RAIL PANEL

RE-3 - (4 @ 3'-1 1/2" = 12'-6") - 73'

NOTES

- For locations of End Posts on the structure, see Design Drawings.
- At times, an End Post Wing may be cantilevered for all or part of its length. For details, see Design Drawings.
- If an End Post Wing is cantilevered, bars EP405 are to be omitted as needed.
- When End Post Wing is cantilevered more than 2'-0", all #5 bars shall be replaced by #7 bars.
- Nuts and washers for 7/8" anchor bolts shall be incidental to Guard Rail Pay Items. Nuts shall conform to A.S.T.M. A563, Grade DH, galvanized in accordance with A.S.T.M. A153, or Grade C3, plain.
- Additional holes in the Modified Guard Rail Panel may be made by drilling, punching or any other method that produces a neat, clean hole of the required size. Burning of holes will not be allowed.
- Spacer Tube shall conform to the requirements of A.S.T.M. A53, galvanized, Grade B Type E or S. Hex bolt and nut on spacer tube shall conform to A.S.T.M. A307. Payment for spacer tube, bolt and nut shall be incidental to the Guard Rail pay item.
- Reinforcing Steel shall have 2" min. concrete cover.
- After installation of Guard Rail is complete, upset the thread on the anchor bolts in three places around each bolt, at the junction of the nut and the exposed thread, with a center punch or similar tool.
- Terminal Connector Anchorage shall be incidental to the applicable concrete pay item.
- End Post shall be constructed normal to grade unless otherwise shown on Design Drawings.
- All accessories (posts, bolts, nuts etc.) shall be as detailed for Standard Type 3 Guard Rail, except as otherwise detailed.
- If there is a conflict between this Standard Detail and the Design Drawings, the requirements of the Design Drawings shall be followed.
- Concrete shall be Class A with a silica fume additive.

PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	6-88
CHECKED	
REVISIONS	
FIELD CHANGES	

REVISIONS	DATE
Revision	DEC.89
Revision	OCT.90

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

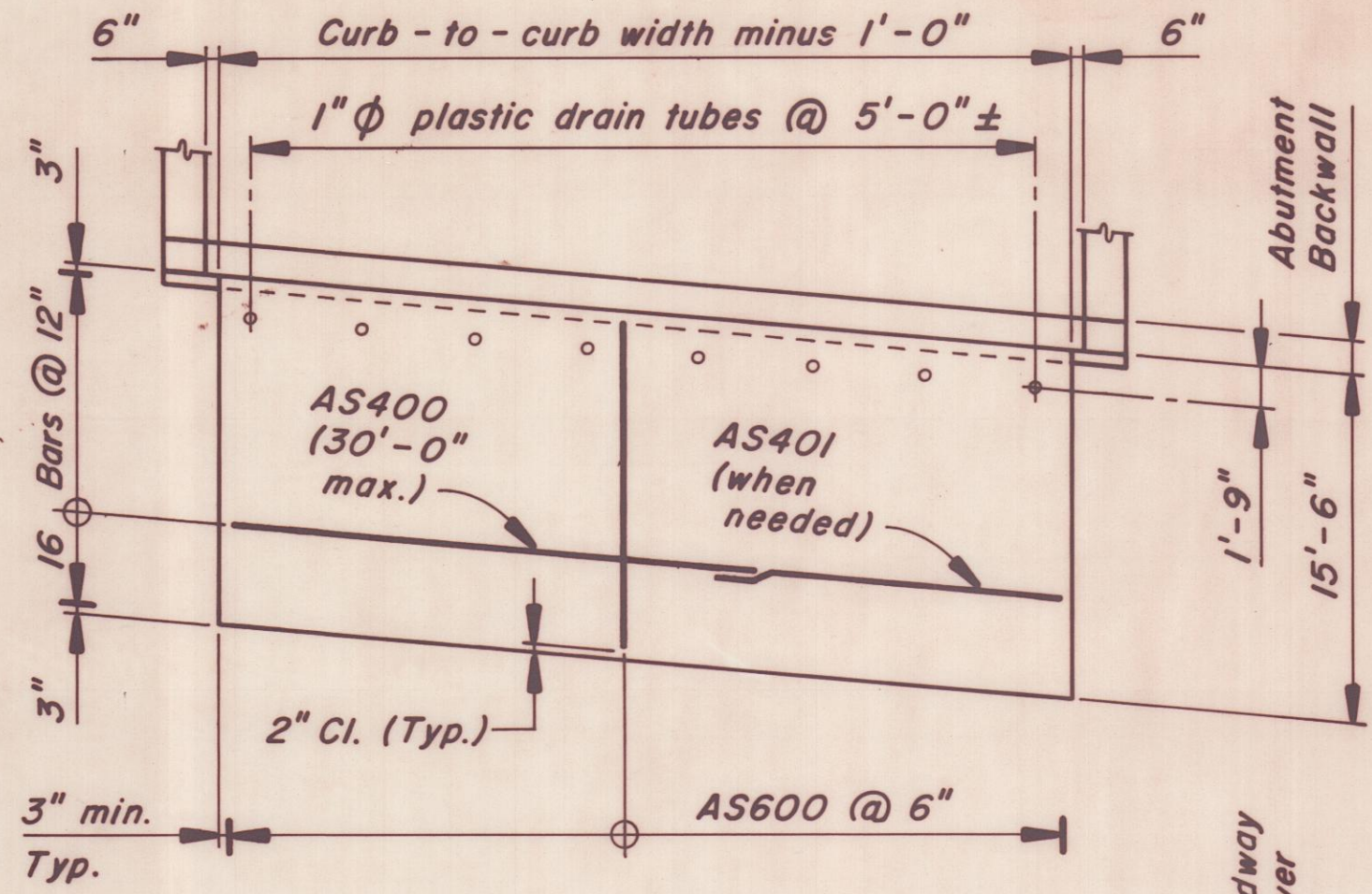
MAINE TURNPIKE

STANDARD DETAILS

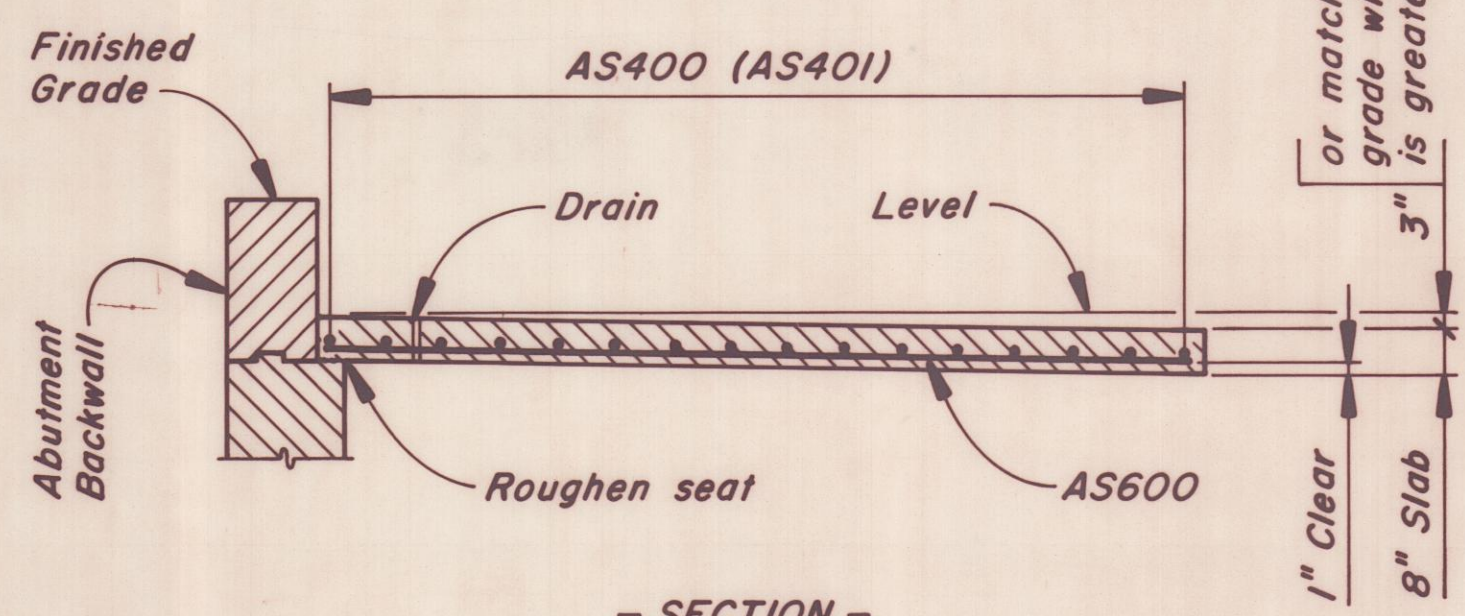
BD 201 - 89

CONCRETE END POSTS

SHEET OF Feb 1989

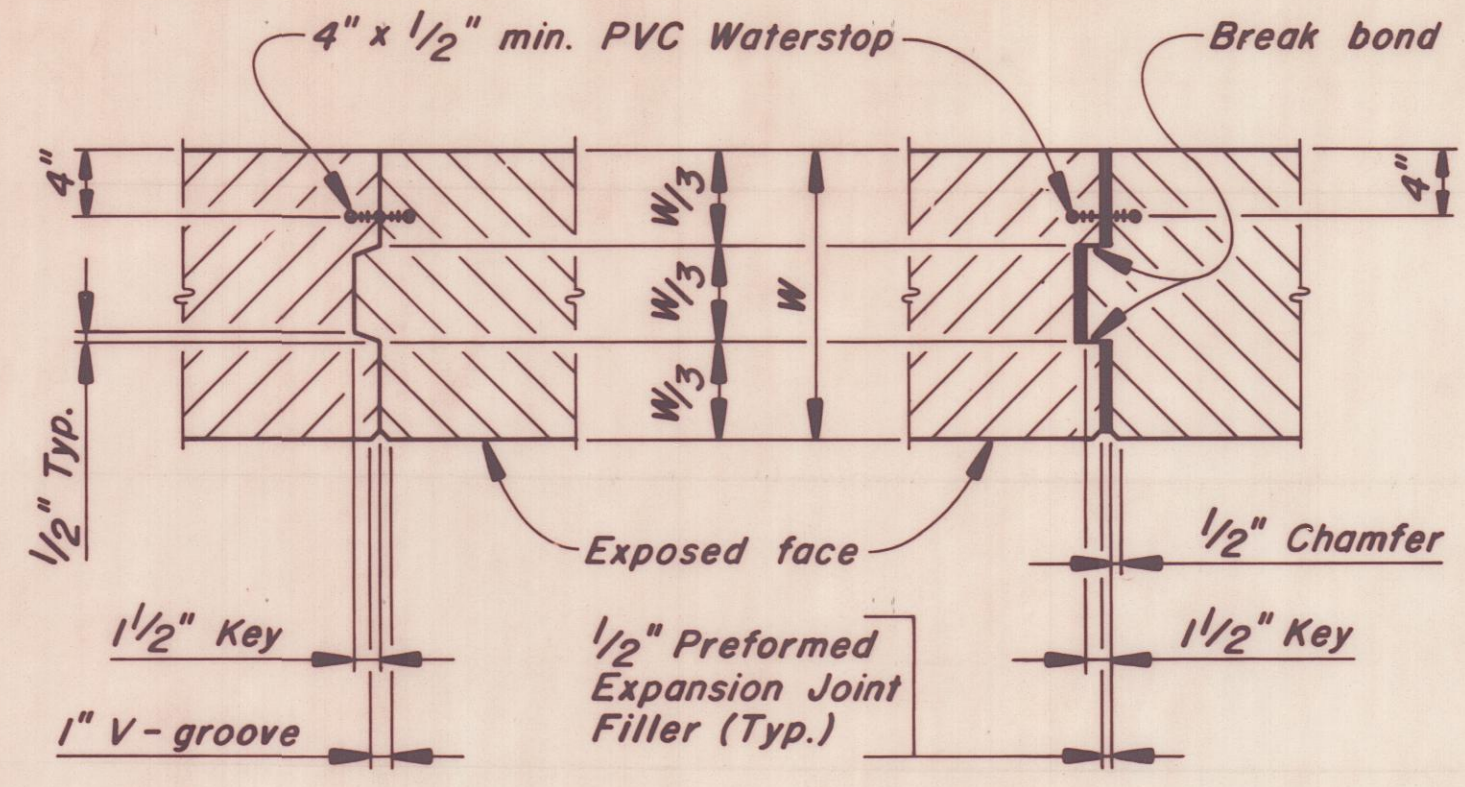


- PLAN -



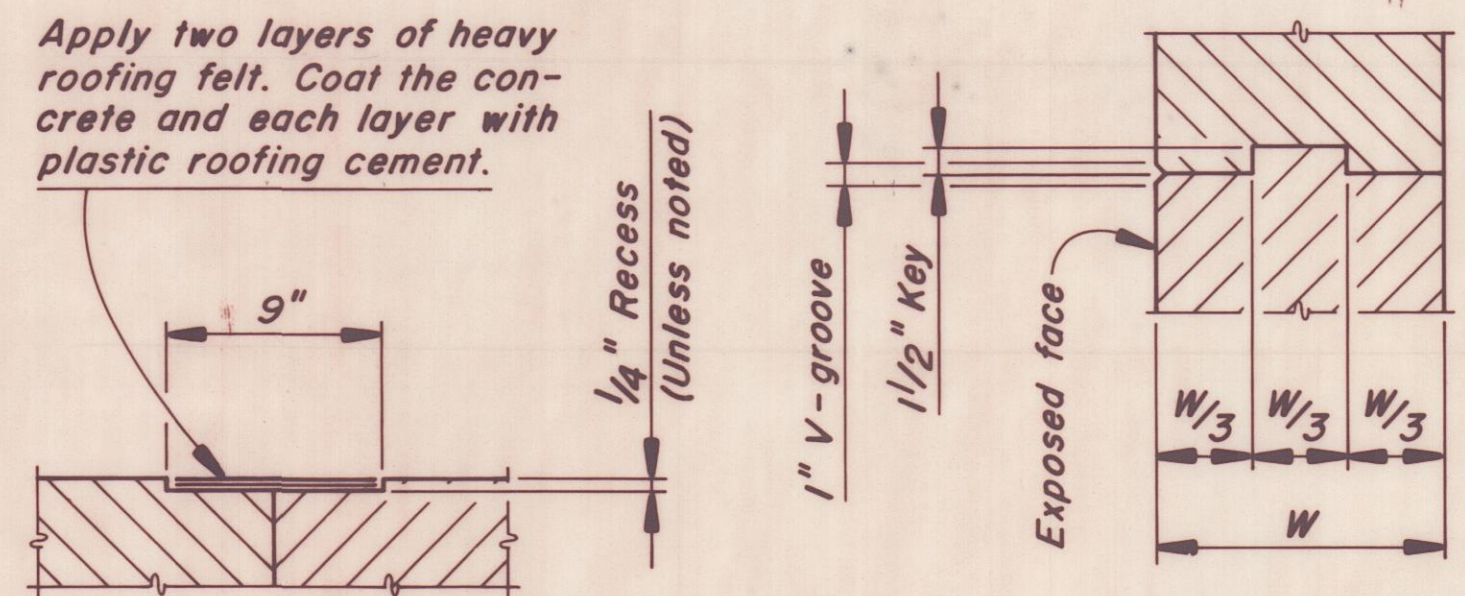
- SECTION -

APPROACH SLAB



-VERTICAL CONSTRUCTION OR CONTRACTION JOINT-

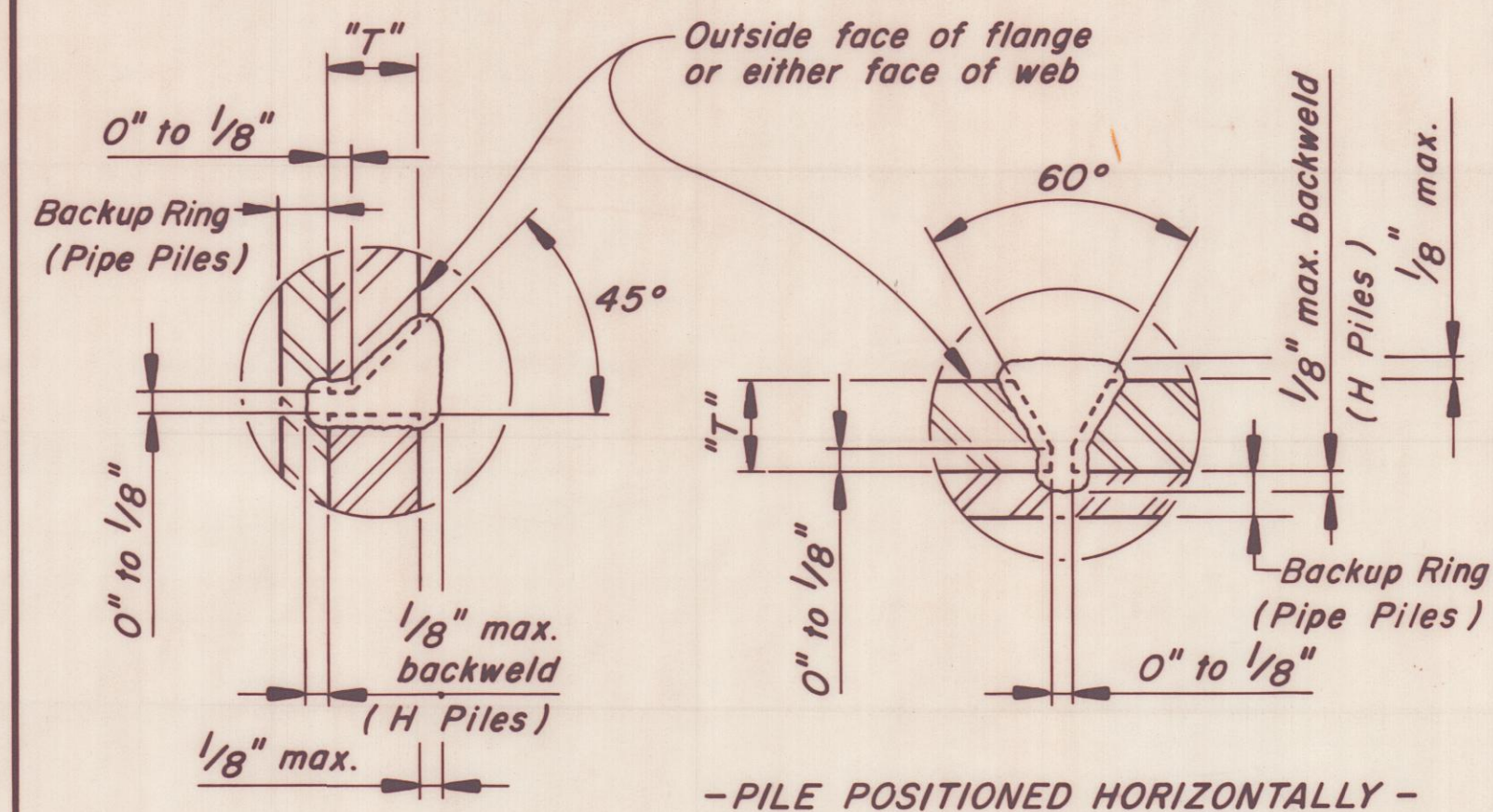
-VERTICAL EXPANSION JOINT-



- JOINT COVER -

- HORIZONTAL CONSTRUCTION JOINT -

CONCRETE JOINT DETAILS



- PILE POSITIONED HORIZONTALLY -

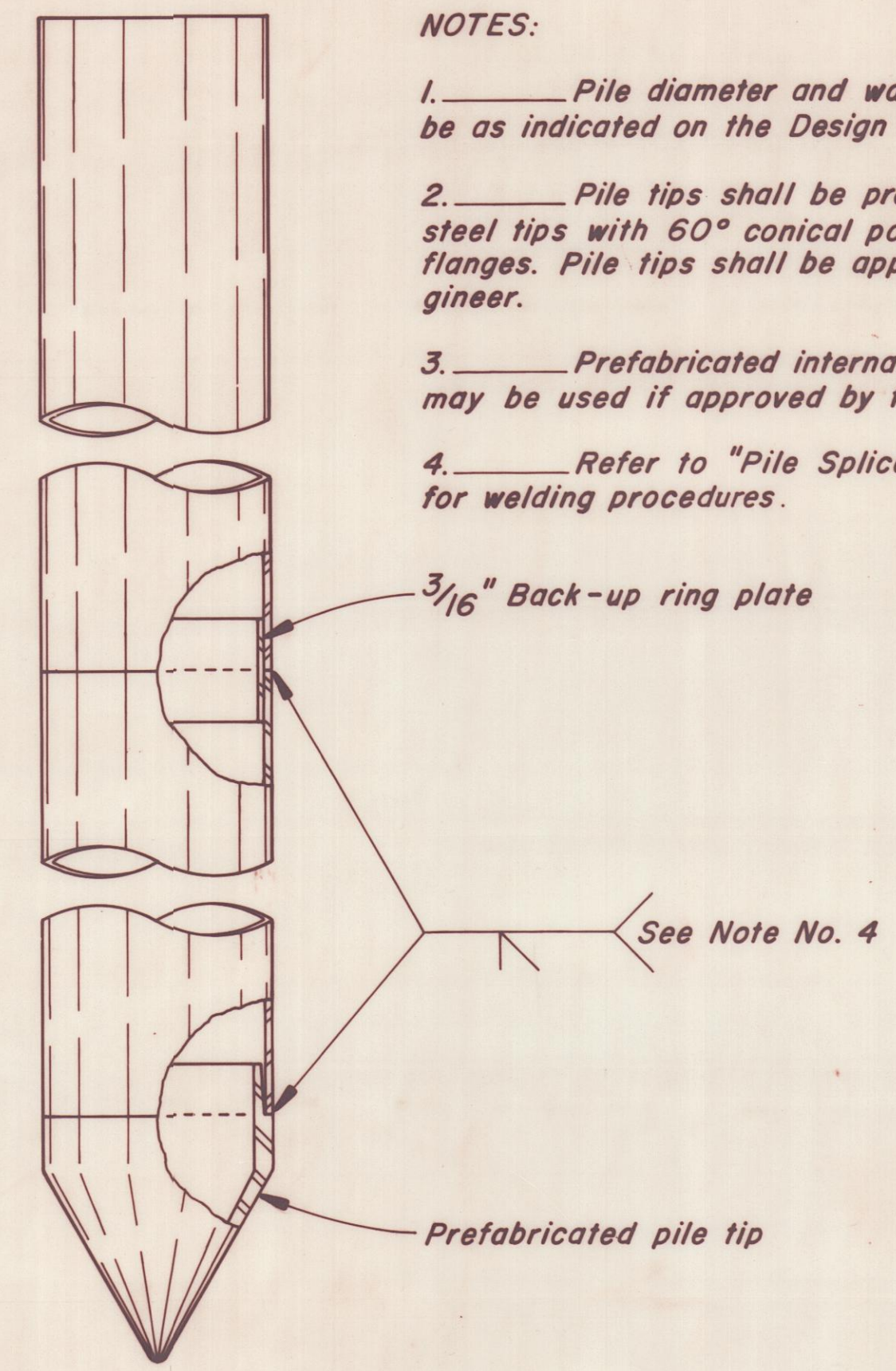
- PILE POSITIONED VERTICALLY -

NOTES:

- All cutting shall be done with the use of a mechanical guide.
- Gouge root before welding second side. (H Piles).
- Use Manual Shielded-Arc Process and 6010 or 6011 electrodes, unless a different process has been approved by the Engineer.
- Electrodes shall be dry when used, in accordance with the provisions of A.W.S. Spec. D.I., as amended by AASHTO.

Base Metal Thickness "T"	Min. Number of Passes
3/8, 7/16	3
1/2, 9/16, 5/8	4
11/16, 3/4, 13/16	5

PILE SPLICE



NOTES:

- Pile diameter and wall thickness shall be as indicated on the Design Drawings.
- Pile tips shall be prefabricated cast steel tips with 60 degree conical points and internal flanges. Pile tips shall be approved by the Engineer.
- Prefabricated internal splicer sleeves may be used if approved by the Engineer.
- Refer to "Pile Splice" details at left for welding procedures.

PIPE PILES

GENERAL NOTE:
In case of conflict between these Standard Details and the Design Drawings, the requirements of the Design Drawings shall be followed.

REVISIONS	APPROVED	
	Me.DOT	FHWA
Description		
Original Plan	FEB. 1989	MAR. 16, 1989
Delete Pile Tip Details	OCT. 1990	

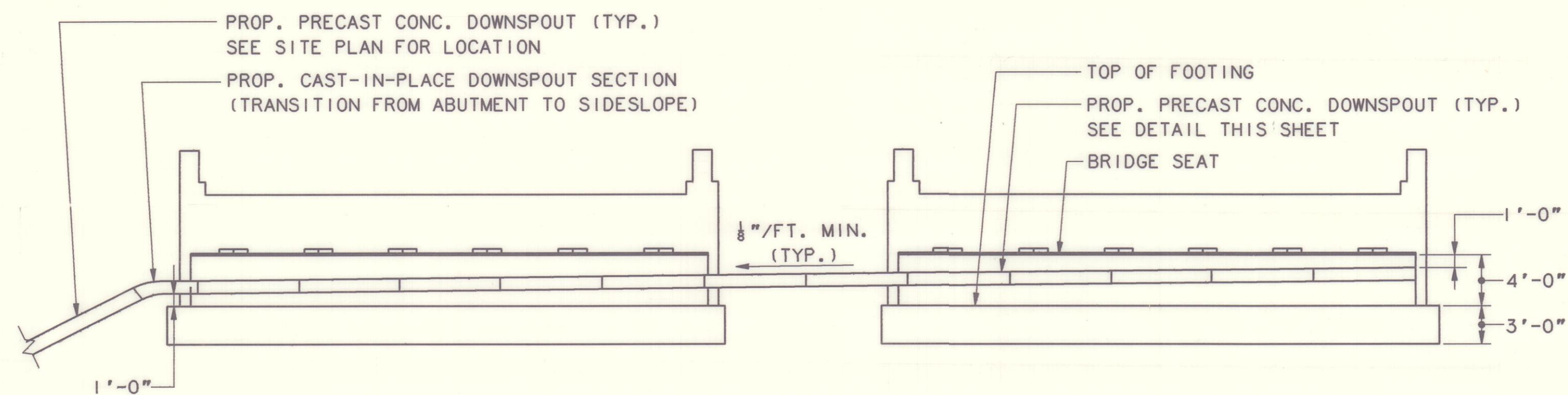
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

**MAINE TURNPIKE
STANDARD DETAILS**
BD 501 - 89

SUBSTRUCTURE DETAILS
APPROACH SLAB
CONCRETE JOINT DETAILS
PILE SPLICE · PIPE PILES

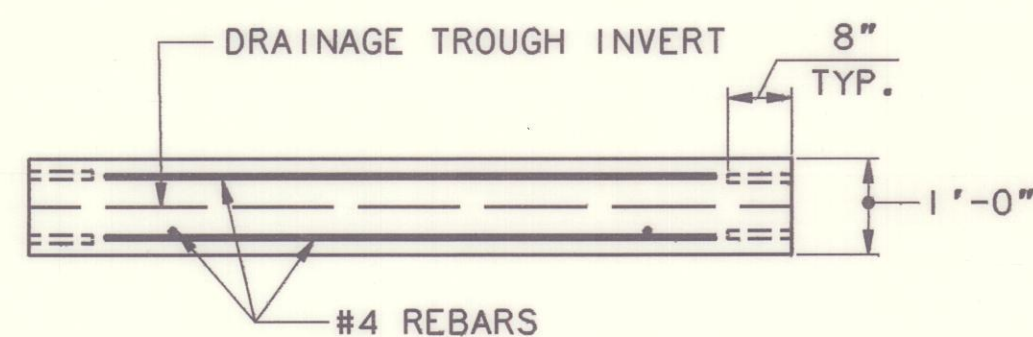
PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

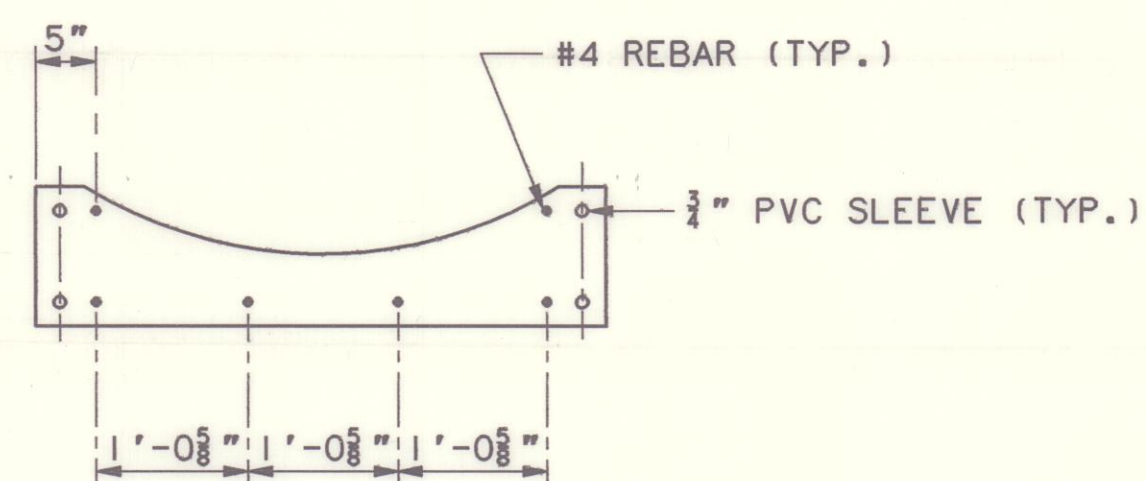


DOWNSPOUT AT SOUTH BRIDGE ABUTMENT

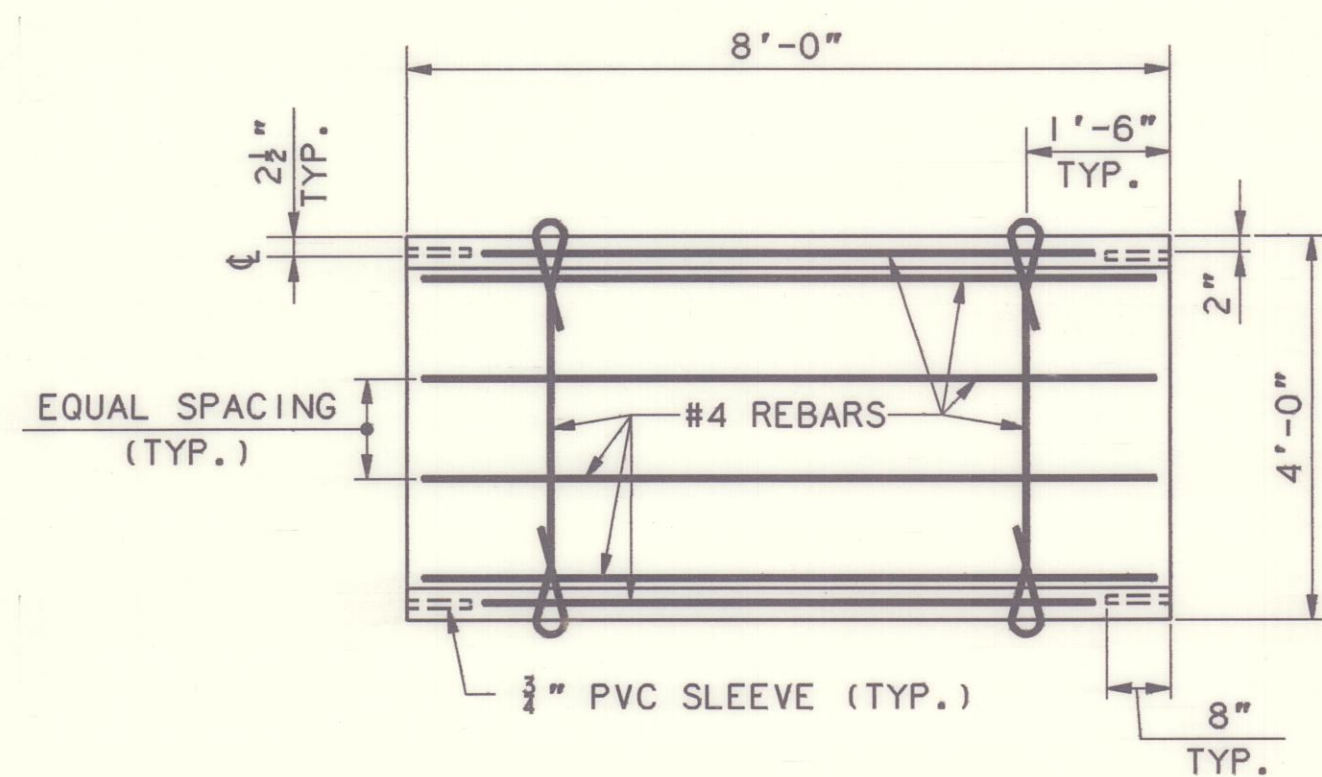
1/8" = 1'-0"



PROFILE ELEVATION



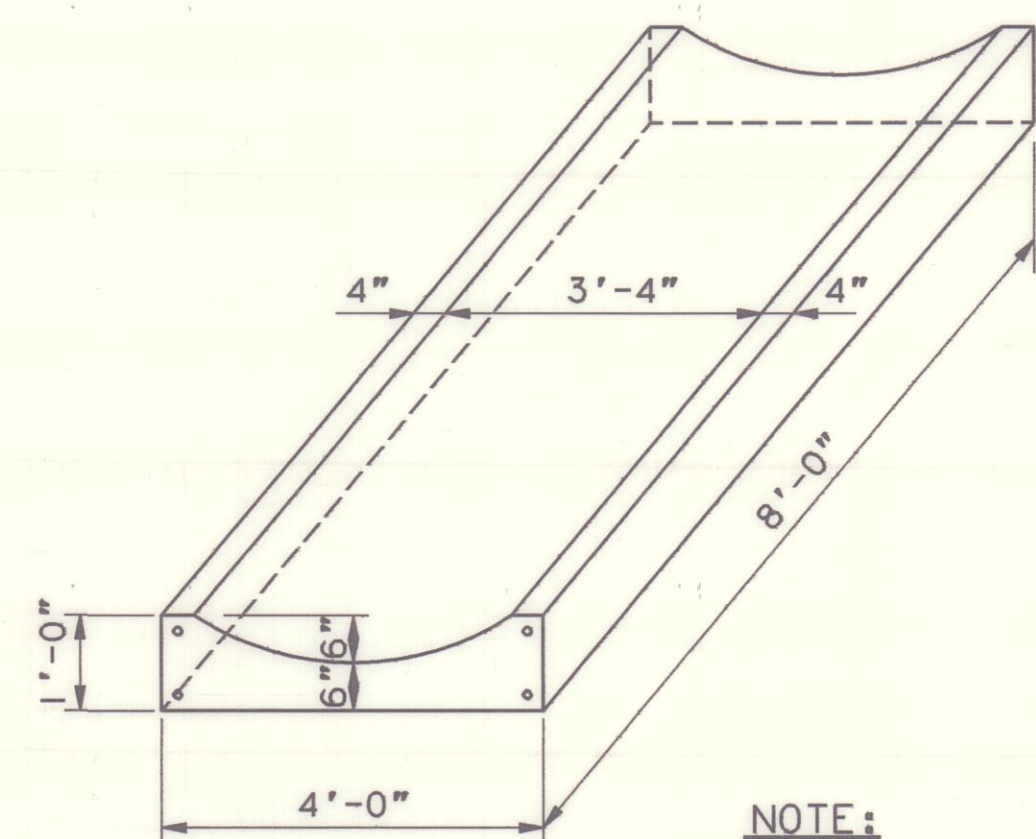
END VIEW



TOP VIEW

PRECAST CONCRETE DOWNSPOUT (MDOT - CLASS AA CONCRETE)

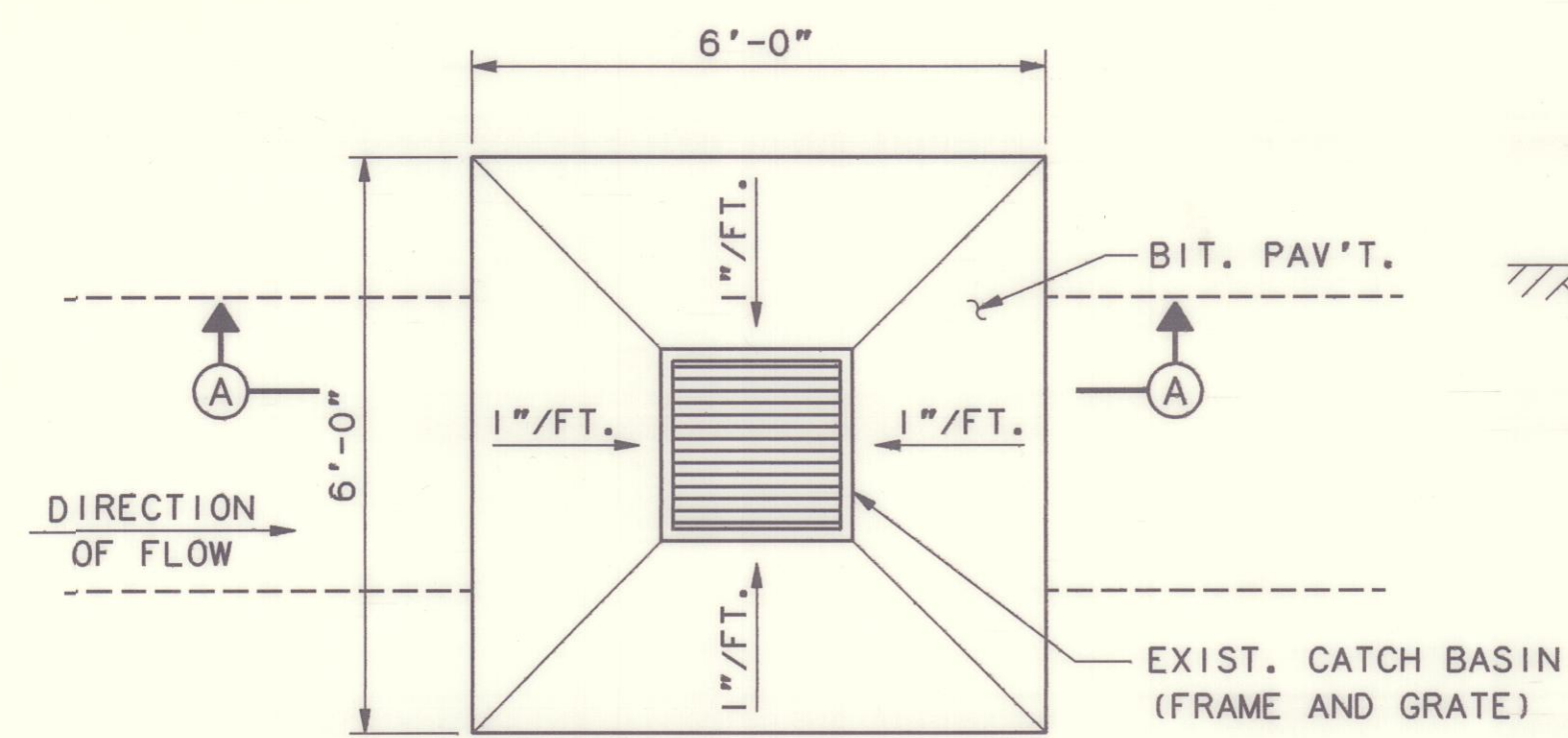
NOT TO SCALE



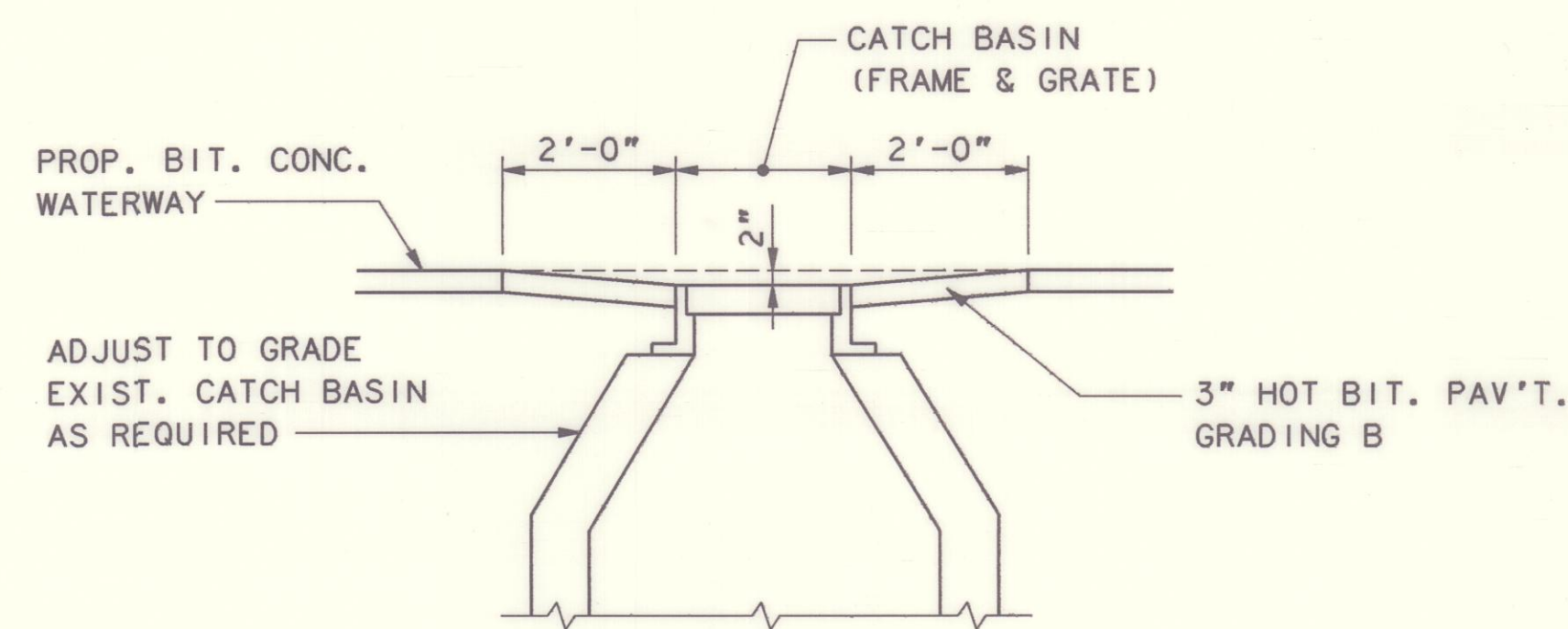
NOTE:

BOND DOWELS (REBARS) & END SURFACES OF DOWNSPOUT WITH SIKADUR LO-MOD GEL. REBAR USED AS DOWELS SHALL BE EPOXY COATED.

ALL REBARS 2" (TYP.) CLEARANCE. ALL REBARS SHALL BE EPOXY COATED (TYP.).



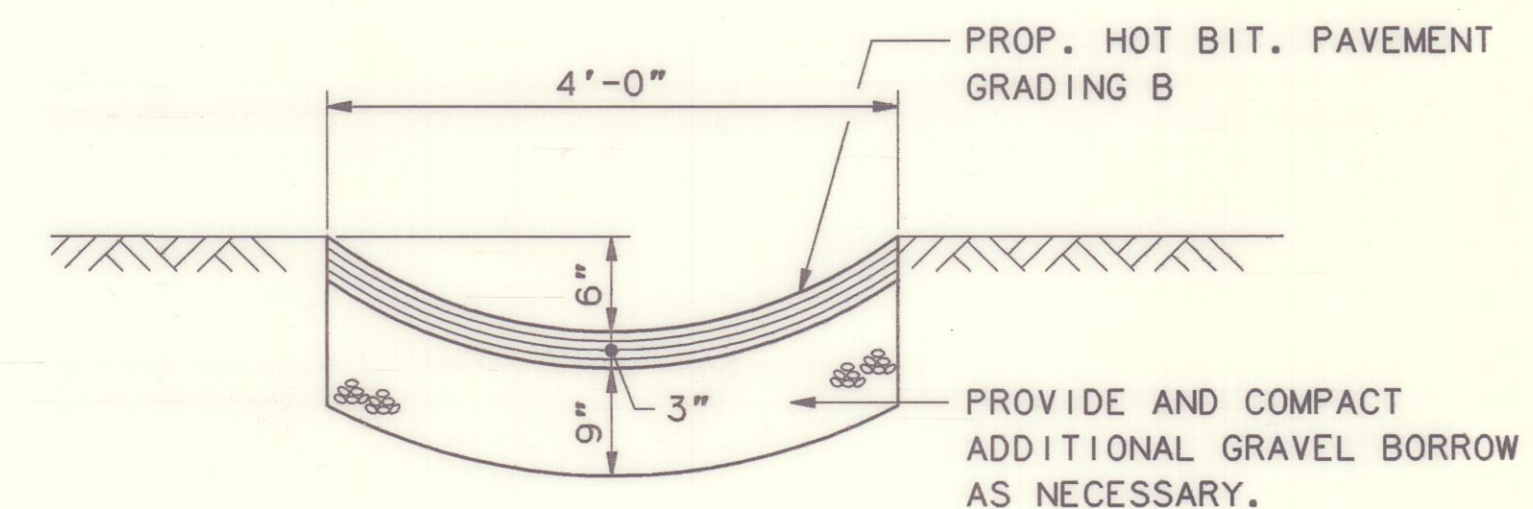
PLAN VIEW



SECTION A-A

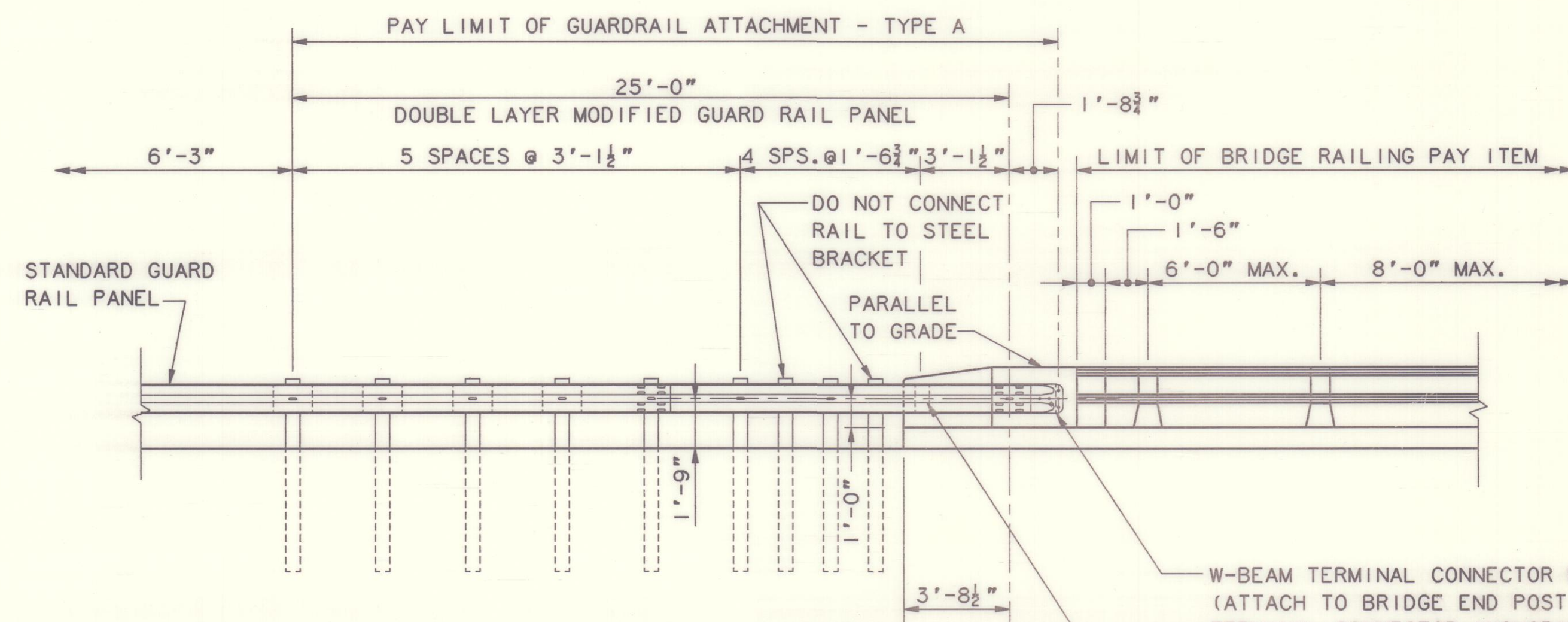
BITUMINOUS CONCRETE WATERWAY AT CATCH BASIN IN GRASS AREAS

1/4" = 1'-0"



BITUMINOUS CONCRETE WATERWAY

3/4" = 1'-0"



GUARDRAIL ATTACHMENT - TYPE A (TO BRIDGE END POST)

1/4" = 1'-0"

NOTE: FOR ADDITIONAL GUARDRAIL DETAILS SEE STANDARD DETAIL BD-201-89

Maine Turnpike Authority
Maine Turnpike



BRIDGE DECK REPLACEMENT
MAINE CENTRAL R.R.
MISC. HIGHWAY DETAILS

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. 11 of 32

No.	Revision	By	Date	In Charge Of:
		Designed	JFC 1/92	
		Drawn	LS 1/92	
		Checked	BJB 1/92	
		In Charge Of:		RAL

SPECIFICATIONS

DESIGN

AASHTO Standard Specifications For Highway Bridges 1989 And Interim Specifications.

CONTRACT

State of Maine, Department of Transportation Standard Specifications, Highways And Bridges, Revision of October 1990.

DESIGN LOADING

LIVE LOAD

HS20 500,000 Cycles

FOUNDATIONS

Abutments - HP10x42
Pier - HP12x53

MATERIALS

CONCRETE

Superstructure Slab Concrete Shall Be Class AAA. All Other Concrete Shall Be Class A.

REINFORCING STEEL

ASTM-A615 Grade 60. (Epoxy Coated And Non-Epoxy Coated Bars. See Reinforcing Schedules).

STRUCTURAL STEEL

Bearing Shoes-See Standard Details BD 101-89
High Strength Bolts To Be ASTM A325.
All Other Structural Steel Shall Be ASTM A709, Grade 36.

BASIC ALLOWABLE STRESSES

CONCRETE

$f_c = 1,800$ psi $n=8$ (Superstructure Slab)
 $f_c = 1,600$ psi $n=8$ (All Other)

REINFORCING STEEL

$f_b = 24,000$ psi

STRUCTURAL STEEL

A709 Grade 36, $f_b = 20,000$ psi
A709 Grade 50, $f_b = 27,000$ psi

GENERAL NOTES

- Reinforcing Steel To Have A Clear Cover Of 2", Unless Otherwise Specified.
- Chamfer All Exposed Edges 1" Unless Otherwise Noted.
- Plans of Existing Bridges Are Available At The Authority's Office At 430 Riverside St., Portland, Maine.
- Shielding Required During Concrete Removal Shall Not Project Below The Bottom Flanges Of The Stringers. The Estimated Quantity Of Shielding Is The Minimum Required And Is Based On The Following Limits:
 - Normal To ϕ Bridge: As Shown On Plans
 - Parallel To ϕ Bridge: Abutment To Abutment
- The Authority's Personnel Will Profile The Tops Of All Stringers Before The Form Work Is Started And Supply The Contractor With Final Bottom Of Slab Elevations.

SUPERSTRUCTURE NOTES

- All Brush Curb, End Post And Top Pour Of Wingwall Concrete Shall Contain A Silica Fume Additive.
- Longitudinal Reinforcement Shown In Deck Plan Is Symmetrical About ϕ Bridge.
- Mortar For Bedding And For Joints In The Granite Curb Shall Contain A Non-shrink Additive.
- The Superstructure Slab Concrete Shall Be Placed In One Continuous Operation And Shall Be Kept Plastic One Complete Span Behind The Span Being Placed.
- If The Slab Placement Has To Be Terminated, The Termination Point Must Be At The Points Indicated In The Placement Details, Shown On The Superstructure Detail Sheet.
- Adjust Reinforcing Steel To Fit Around The Scuppers In A Manner Approved By The Engineer. Do Not Cut Transverse Re-steel.
- Depress 1" ϕ Drains $\frac{3}{8}$ " Below Top Of Slab. Do Not Cover Drains With Membrane. Provide 23 Gauge Galvanized Screens ($\frac{1}{8}$ " Mesh) Over Drains.
- Seal Membrane At Deck Joints, Along Curb, And All Drains. Allow $\frac{1}{4}$ " For Thickness.
- Locate Scupper In Field To Discharge Into Drainage Trough. For Scupper Details, See Sheet 22.
- Protective Coating For Concrete Surfaces Shall Be Used At The Following Areas: Top Of Concrete Curb, Fascia, Down To Drip Notch, And All Exposed Concrete Surfaces On The End Posts.

QUANTITY ITEMS AND UNITS

ITEM NO.	DESCRIPTION	QUANTITY		UNIT
		NB	SB	
202.10	Removing Existing Superstructure - Property of Contractor (820 SY Each Deck)*	ONE		LS
202.12	Removing Existing Structural Concrete	22	22	CY
202.14	Removing Existing Railing - Property Of Contractor	490	490	LF
202.20	Protective Shield	1075	1075	SY
203.25	Granular Borrow	40	40	CY
206.082	Structural Earth Excavation - Major Structures	135	135	CY
206.10	Structural Earth Excavation - Piers	95	110	CY
403.08	Hot Bituminous Pavement, Grading C	95	95	Ton
501.212	Steel H-Beam Piles 42 Lb./Ft.	300	300	LF
501.214	Steel H-Beam Piles 53 Lb./Ft.	210	210	LF
502.21	Structural Concrete Abutments & Retaining Walls	57	57	CY
502.23	Structural Concrete Piers	83	83	CY
502.26	Structural Concrete Roadway & Sidewalk Slabs On Steel Bridges (285 CY Each Deck)*	ONE		LS
502.4712	Silica Fume Additive	1200	1200	Lbs.
502.48	Pier Preparation	105	125	SF
502.60	Backwall Repair - Surface Repair - Section II	10	0	SF
502.62	Abutment and Bridge Seat Repair - Section II	20	10	SF
502.63	Pier Repairs	25	15	SF
503.12	Reinforcing Steel, Fabricated And Delivered	9364	9389	Lbs.
503.13	Reinforcing Steel, Placing	9364	9389	Lbs.
503.14	Epoxy-Coated Reinforcing Steel, Fabricated & Delivered	108600	108600	Lbs.
503.15	Epoxy-Coated Reinforcing Steel, Placing	108600	108600	Lbs.
504.701	Structural Steel Fabricated & Delivered, Rolled (52350 Lbs, Grade 36 Ea.Deck, 900 Lbs, Grade 50 Ea.Deck)*	ONE		LS
504.71	Structural Steel Erection (53250 Lbs. Each Deck)*	ONE		LS
504.72	Steel Beam Modifications	7120	7120	Lbs.
504.73	Structural Steel Repairs	200	200	Lbs.
505.08	Shear Connectors (466 Units Each Deck)*	ONE		LS
506.30	Shop Coating Of Structural Steel (27 Ton Each Deck)*	ONE		LS
506.31	Field Repair Of Damaged Coating (3 Ton Each Deck)*	ONE		LS
507.092	Aluminum Bridge Railing, 2 Bar	528	528	LF
508.13	Membrane Waterproofing (1030 SY Each Deck)*	ONE		LS
514.06	Curing Box For Concrete Cylinders	ONE		Each
515.20	Protective Coating for Concrete Surfaces	255	255	SY
515.22	Thoroseal Coating for Concrete Surfaces	20	20	SY
520.221	Expansion Device Extension - Compression Seal	2	2	Each
609.131	Vertical Bridge Curb - Type IA	50	50	LF
609.132	Vertical Bridge Curb - Type IB	488	488	LF

* Quantities For Estimating Purposes Only

INDEX OF DRAWINGS

SHEET NO.	TITLE
12	INDEX, QUANTITIES, AND NOTES
13	GENERAL PLAN AND FOOTING PLAN
14	ABUTMENT DETAILS I
15	ABUTMENT DETAILS II
16	ABUTMENT JOINT DETAILS I
17	ABUTMENT JOINT DETAILS II
18	PIER DETAILS
19	FRAMING PLAN
20	STRUCTURAL STEEL DETAILS
21	SUPERSTRUCTURE DETAILS
22	MISCELLANEOUS DETAILS
23	REINFORCING SCHEDULE I
24	REINFORCING SCHEDULE II
25	REINFORCING SCHEDULE III
26	REINFORCING SCHEDULE IV

STANDARD DETAIL SHEETS

SHEET NO	TITLE
BD 101-89	BEARING PEDESTALS
BD 111-89	BEAM SPLICES: ROLLED BEAMS
BD 112-89	DIAPHRAGMS & CROSSFRAMES
BD 201-89	CONCRETE END POSTS
BD 401-89	ALUMINUM BRIDGE RAILING: 2 BAR
BD 501-89	SUBSTRUCTURE DETAILS

Maine Turnpike Authority
Maine Turnpike



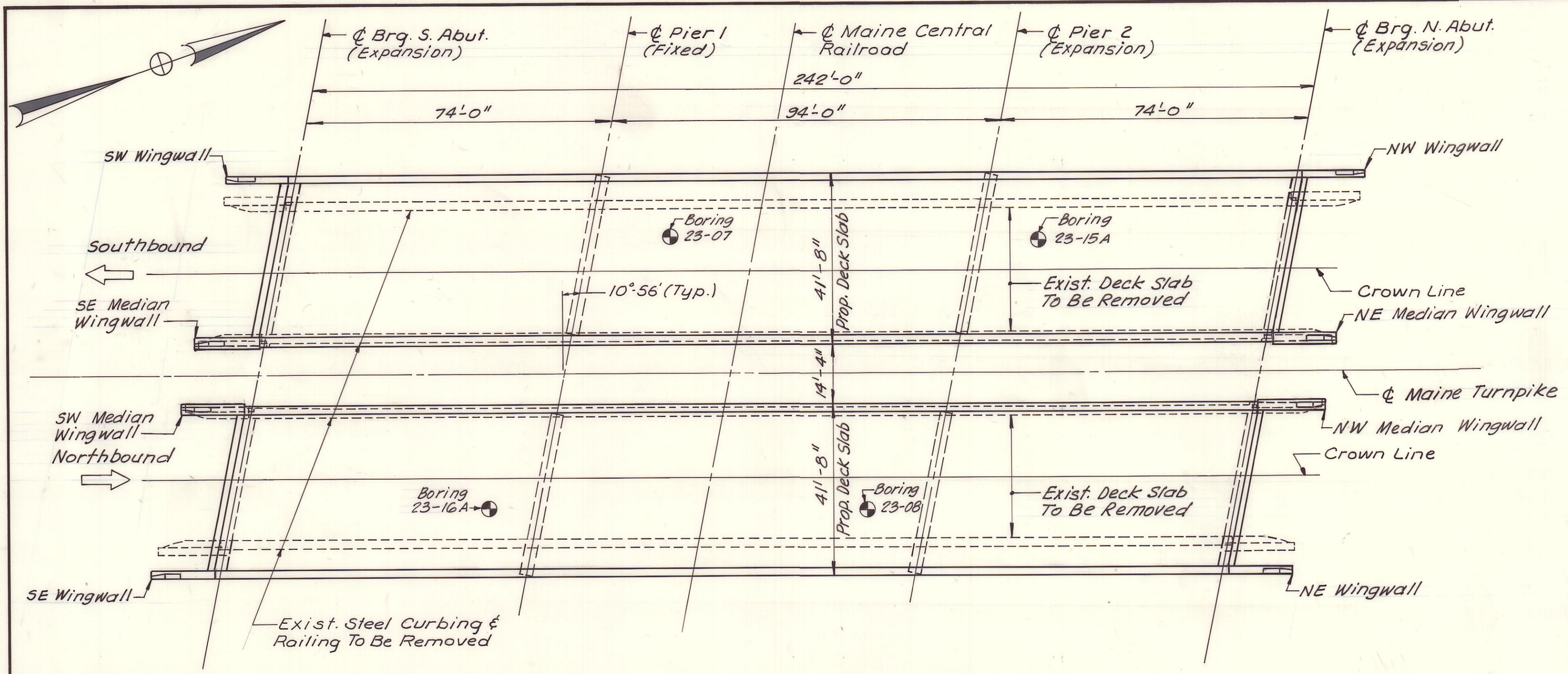
MAINE CENTRAL RR
INDEX,
QUANTITIES, AND
NOTES

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date	In Charge Of:
		Designed	SHR 11/91	
		Drawn	LS 11/91	
		Checked	IS 12/91	

Contract 92.9

Sheet No. 12 of 32



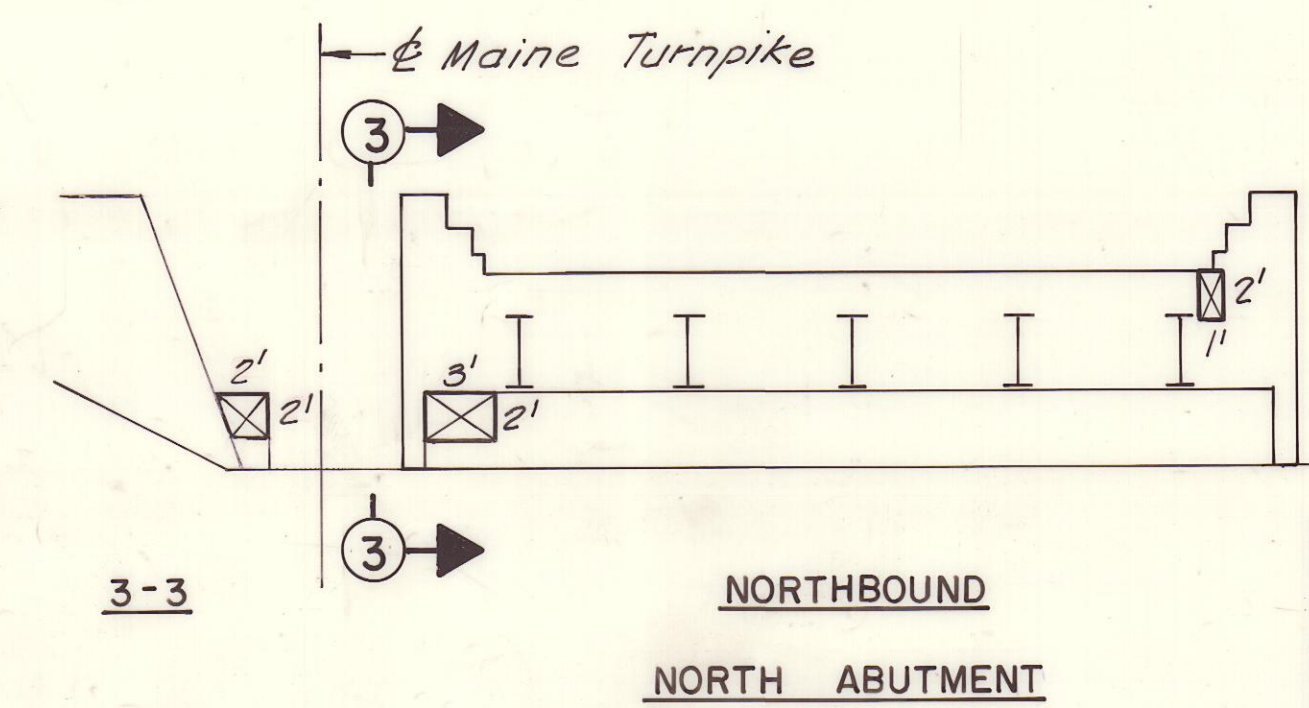
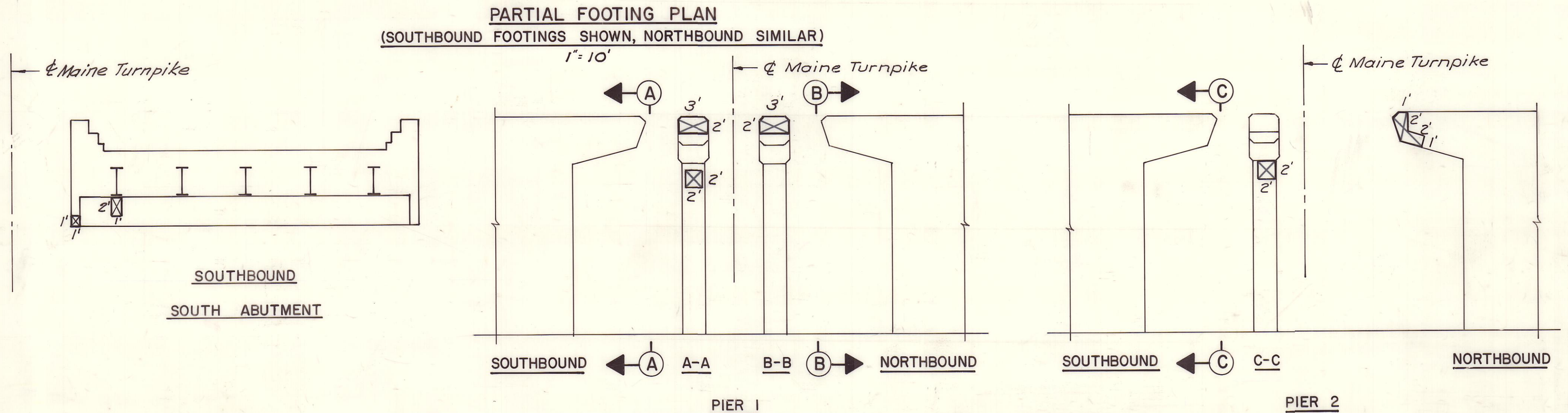
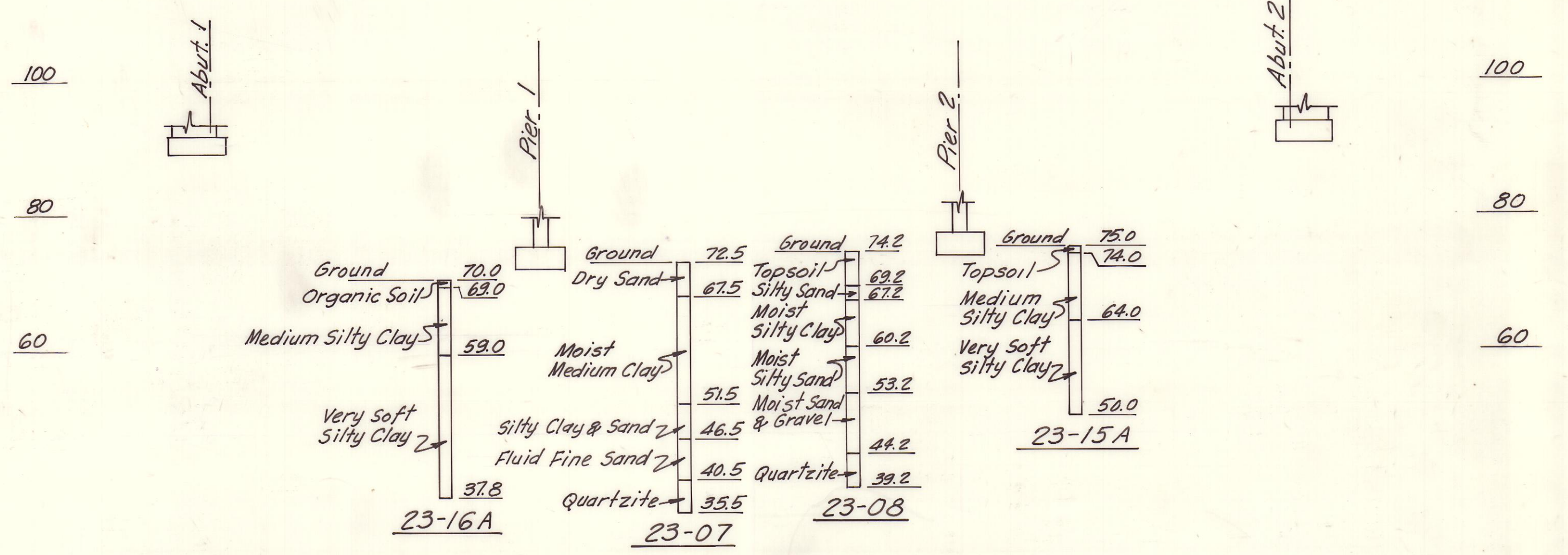
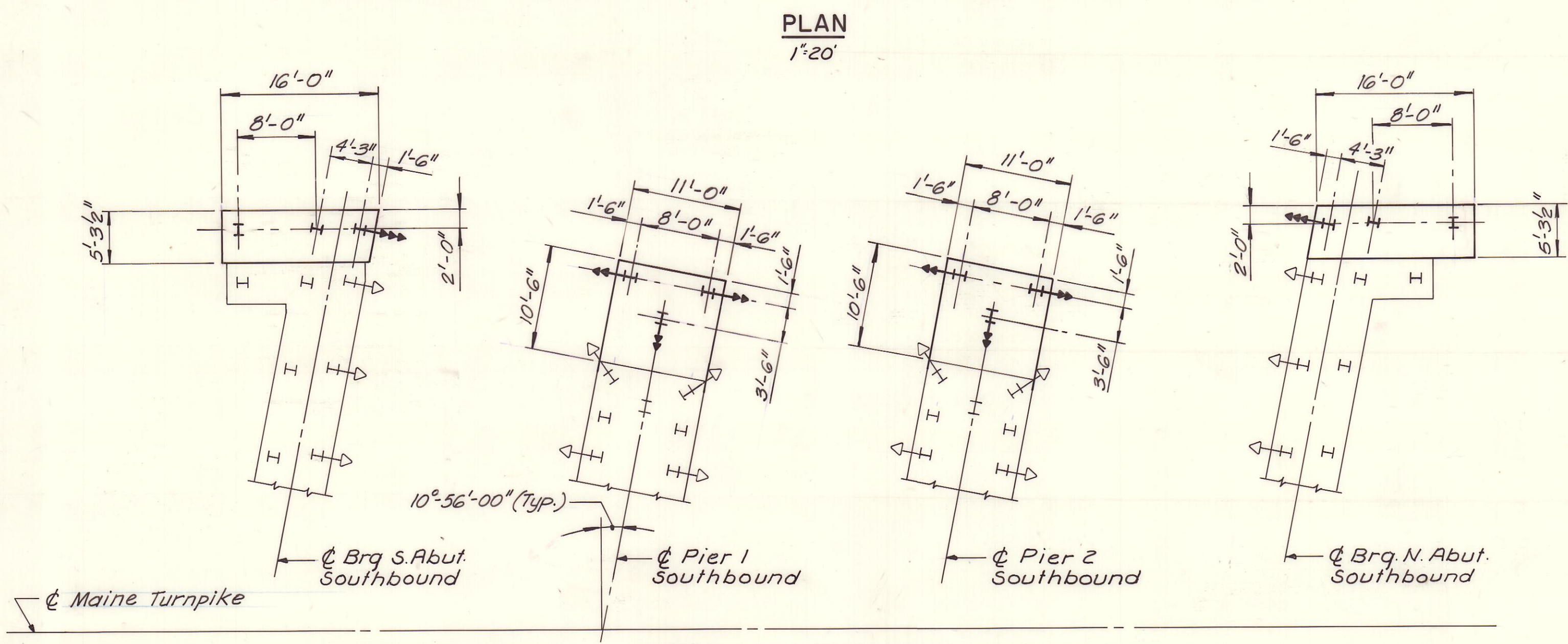
- LEGEND**
- H Existing Pile (Vertical)
 - H⇨ Existing Pile (Batter 3"/ft.)
 - H Proposed Pile HP 10x42 (Vertical)
 - H⇨ Proposed Pile HP 12x53 (Batter 2"/ft.)
 - H⇨ Proposed Pile HP 10x42 (Batter 3"/ft.)
 - ⊕ Existing Boring

ESTIMATED PILE LENGTHS *

South Abutment	50'
Pier 1	35'
Pier 2	35'
North Abutment	50'

* See Note 3

- BORING NOTES**
- The Borings Shown Were Taken For Original Construction. The Borings Were Taken For Design Purposes, And Show Conditions At The Boring Locations Only. They Do Not Necessarily Show The Nature Of Materials To Be Encountered During Construction.
 - Datum Correction: Based On 1991 Survey Information, Add 0.36 Ft. To Elevations Shown On Boring Log.
 - Estimated Pile Lengths Are Taken From The Original Construction Drawings And Are Not Guaranteed.



SUBSTRUCTURE REPAIRS TO EXISTING STRUCTURE
No Scale

No.	Revision	By:	Date:
		Designed	IS 11/91
		Drawn	RDF 11/91
		Checked	SHR 12/91
		In charge of:	RAL

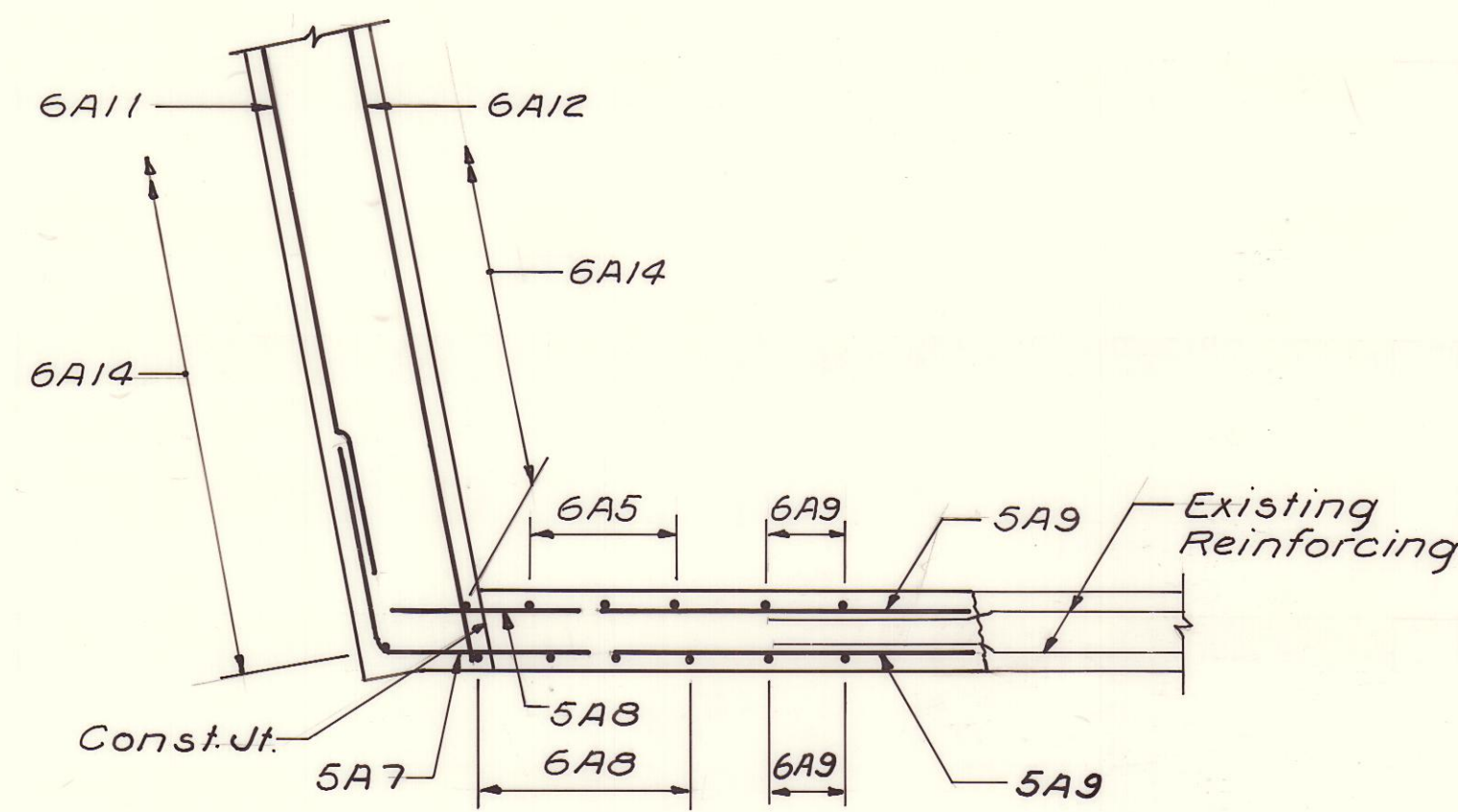
Maine Turnpike Authority
Maine Turnpike

MAINE CENTRAL R.R.
GENERAL PLAN & FOOTING PLAN

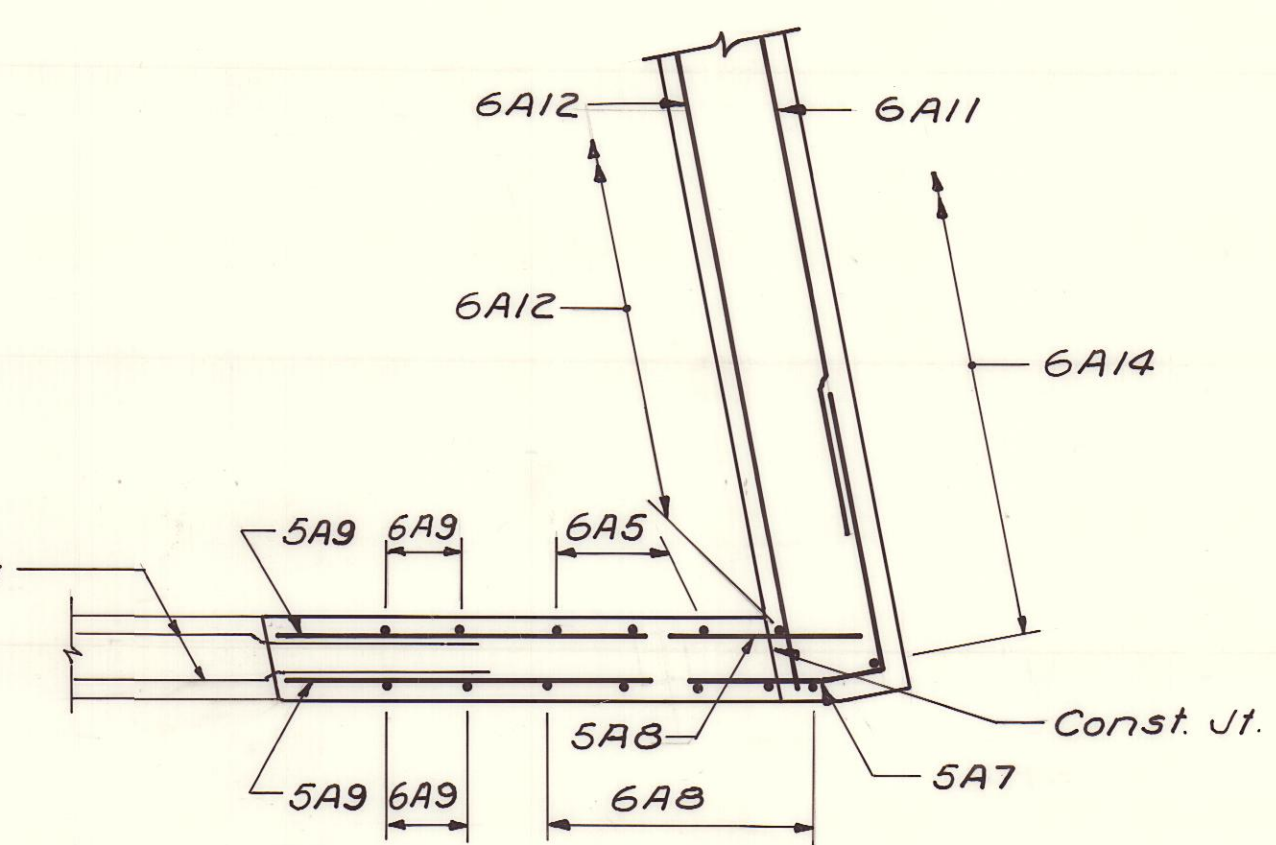
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

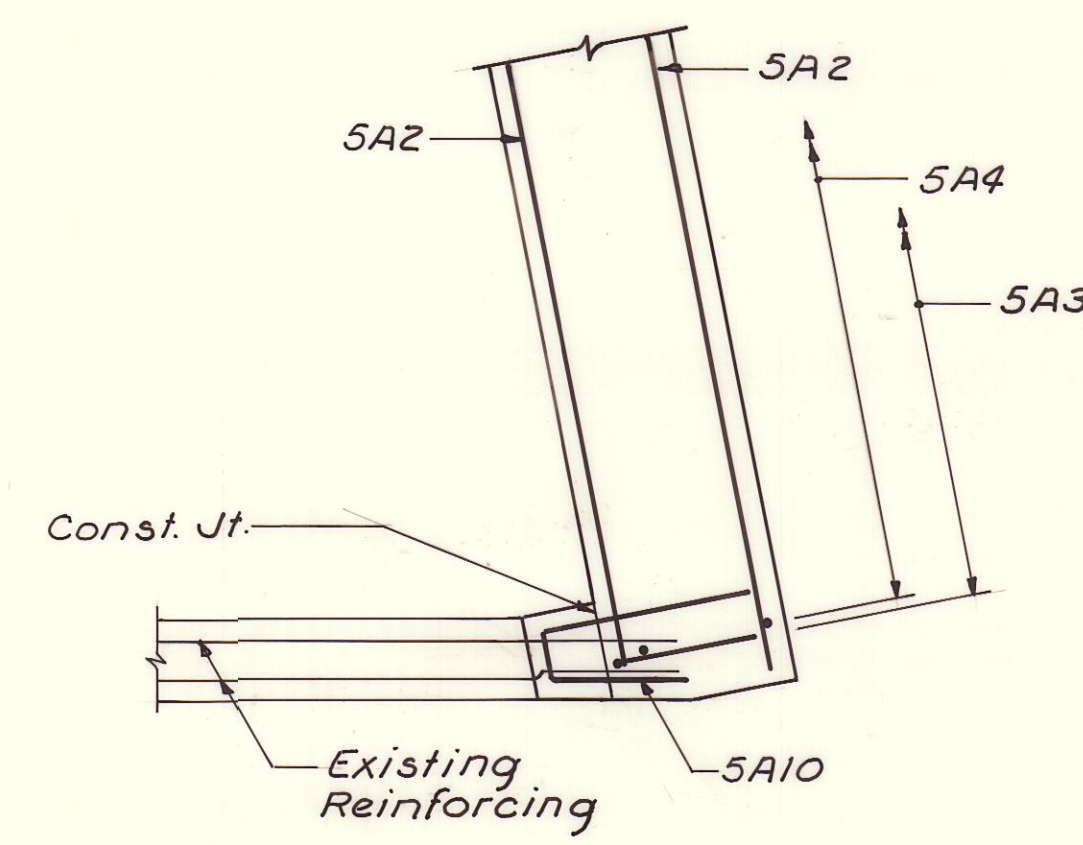
Sheet No. 13 of 32



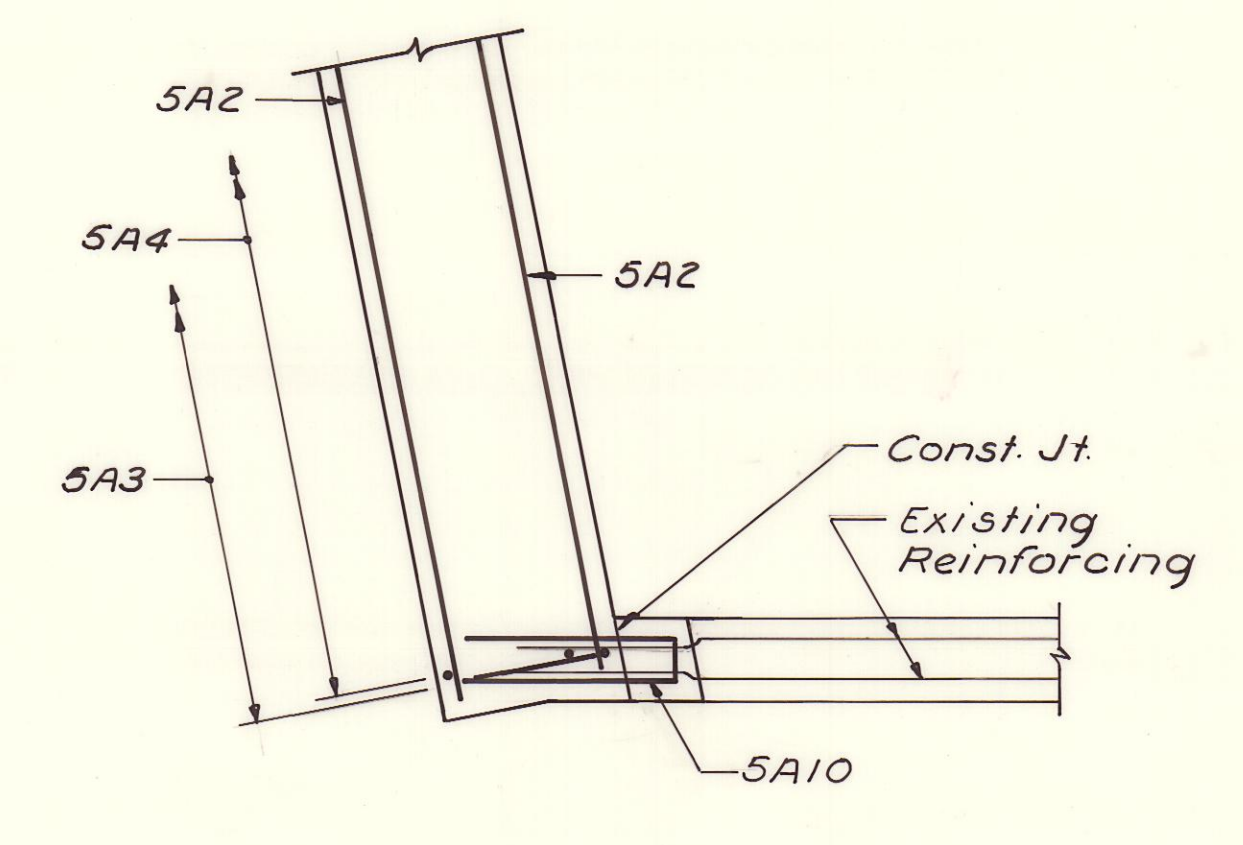
SECTION G-G
3/8" = 1'-0"



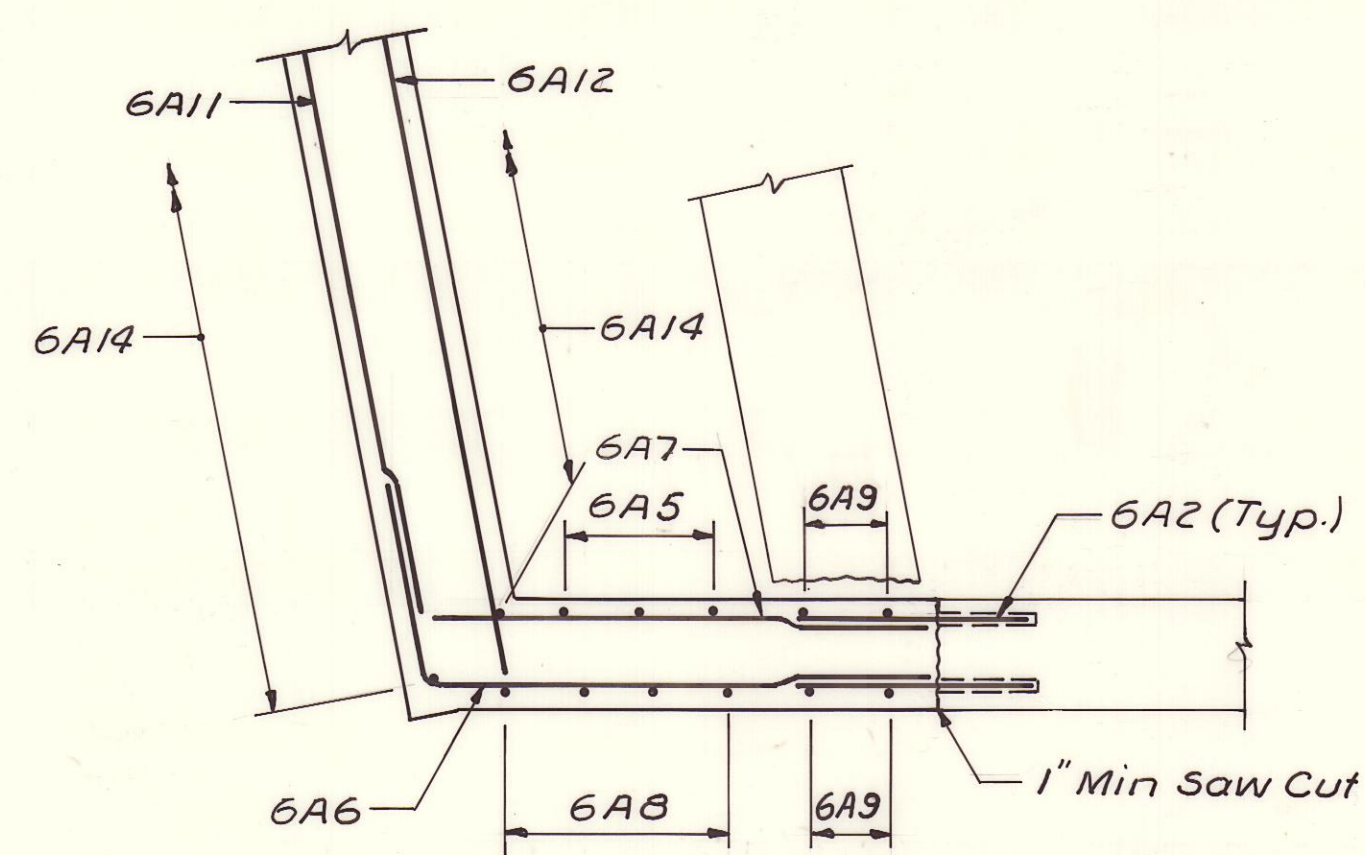
SECTION K-K
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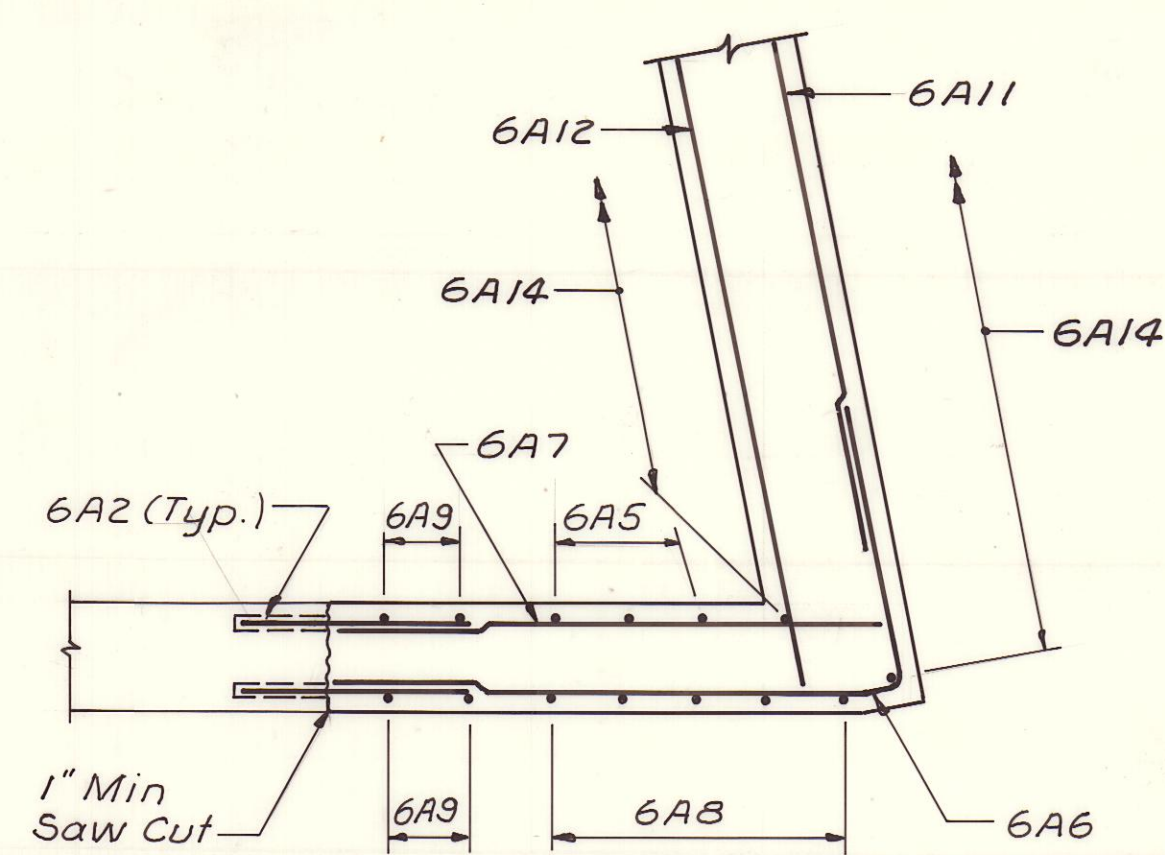
SECTION N-N
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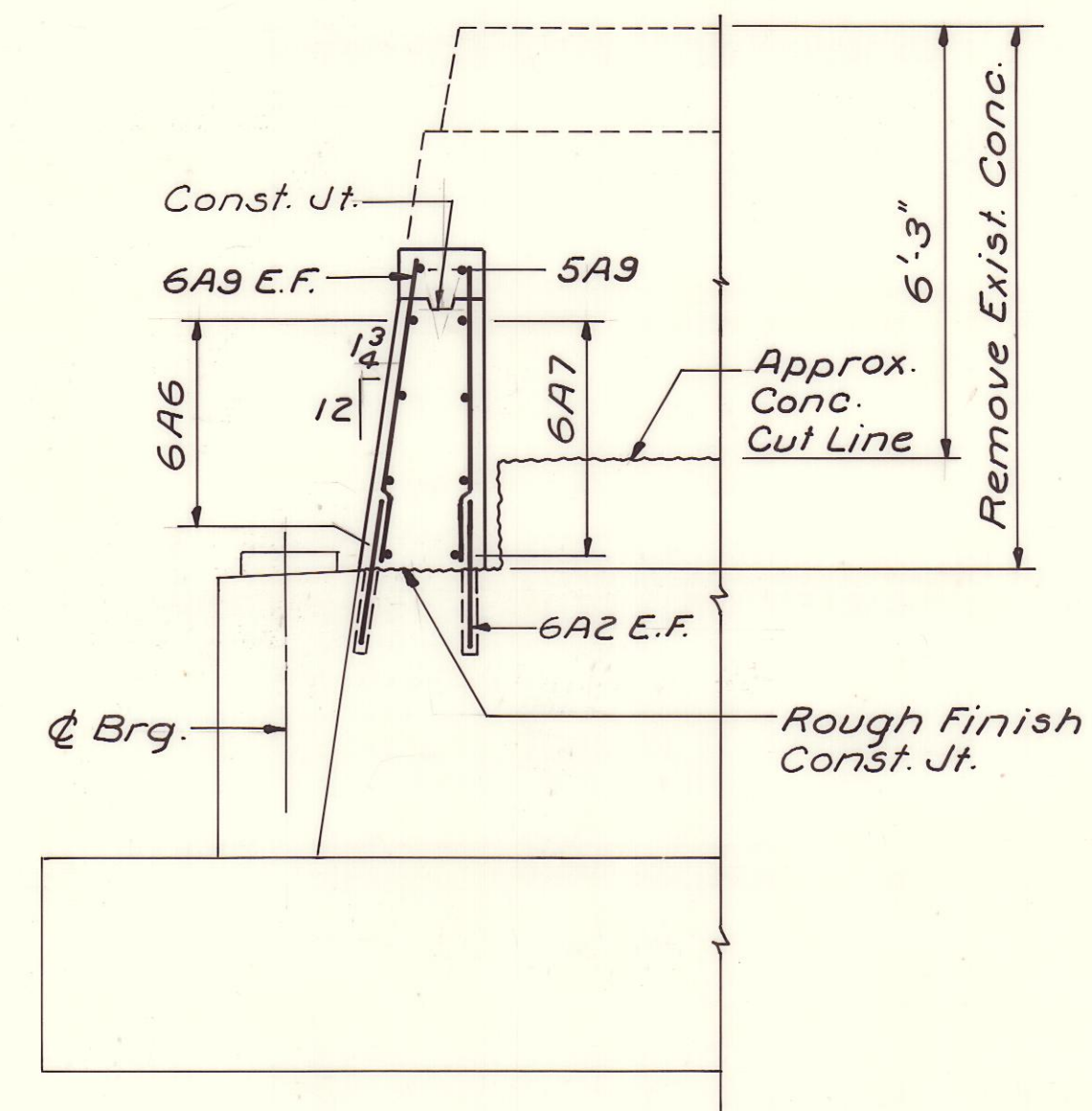
SECTION P-P
3/8" = 1'-0"



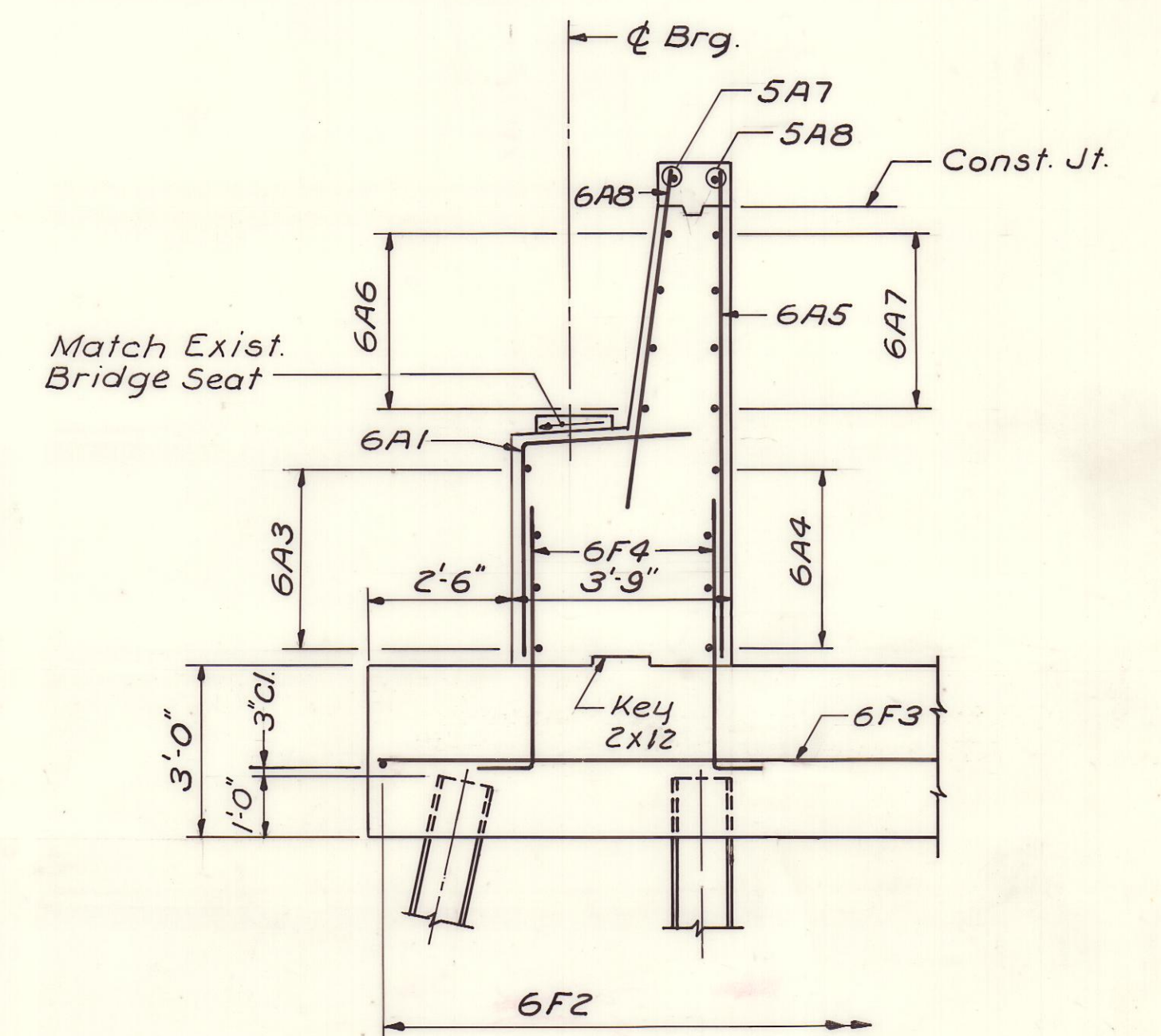
SECTION H-H
3/8" = 1'-0"



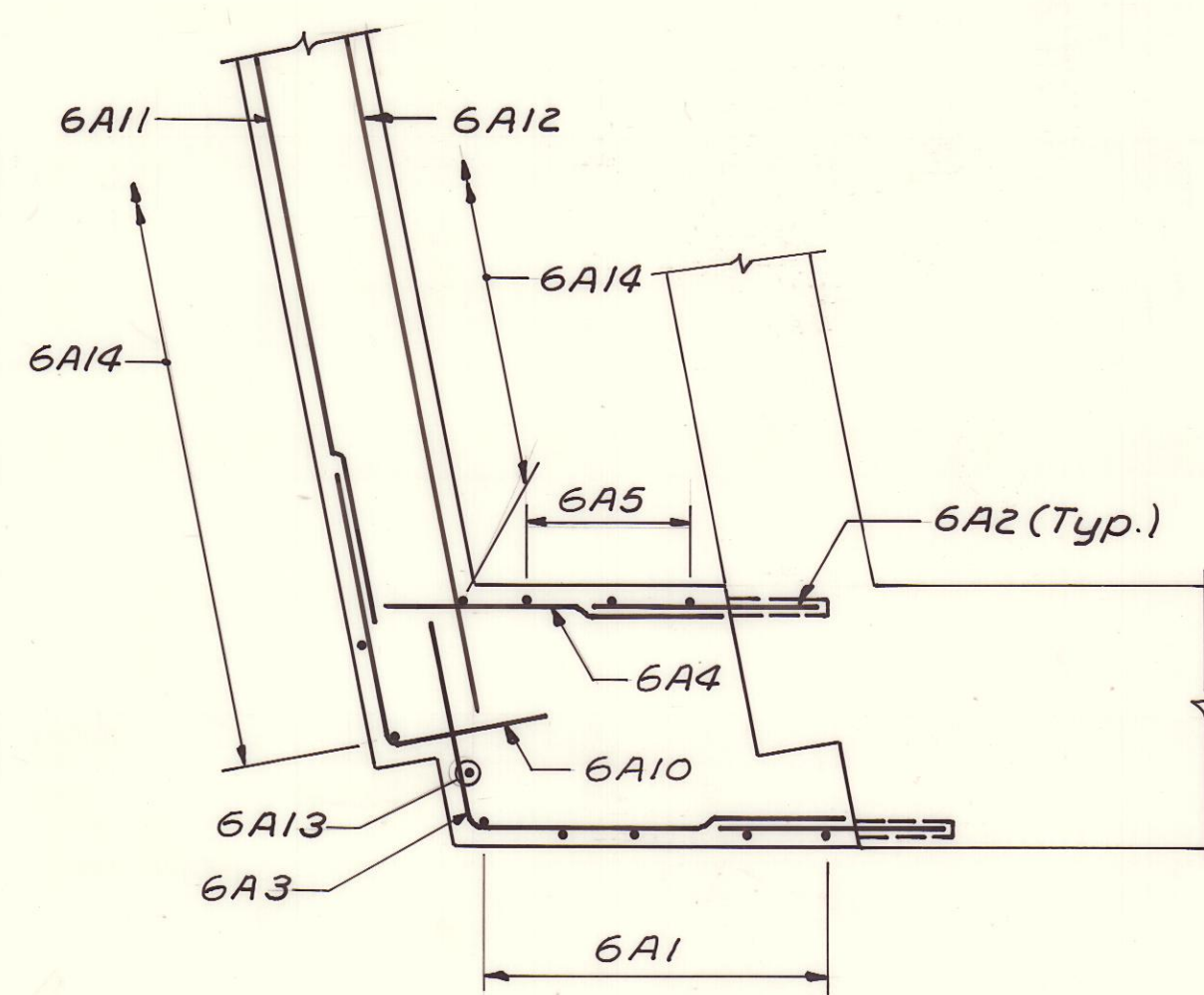
SECTION L-L
3/8" = 1'-0"



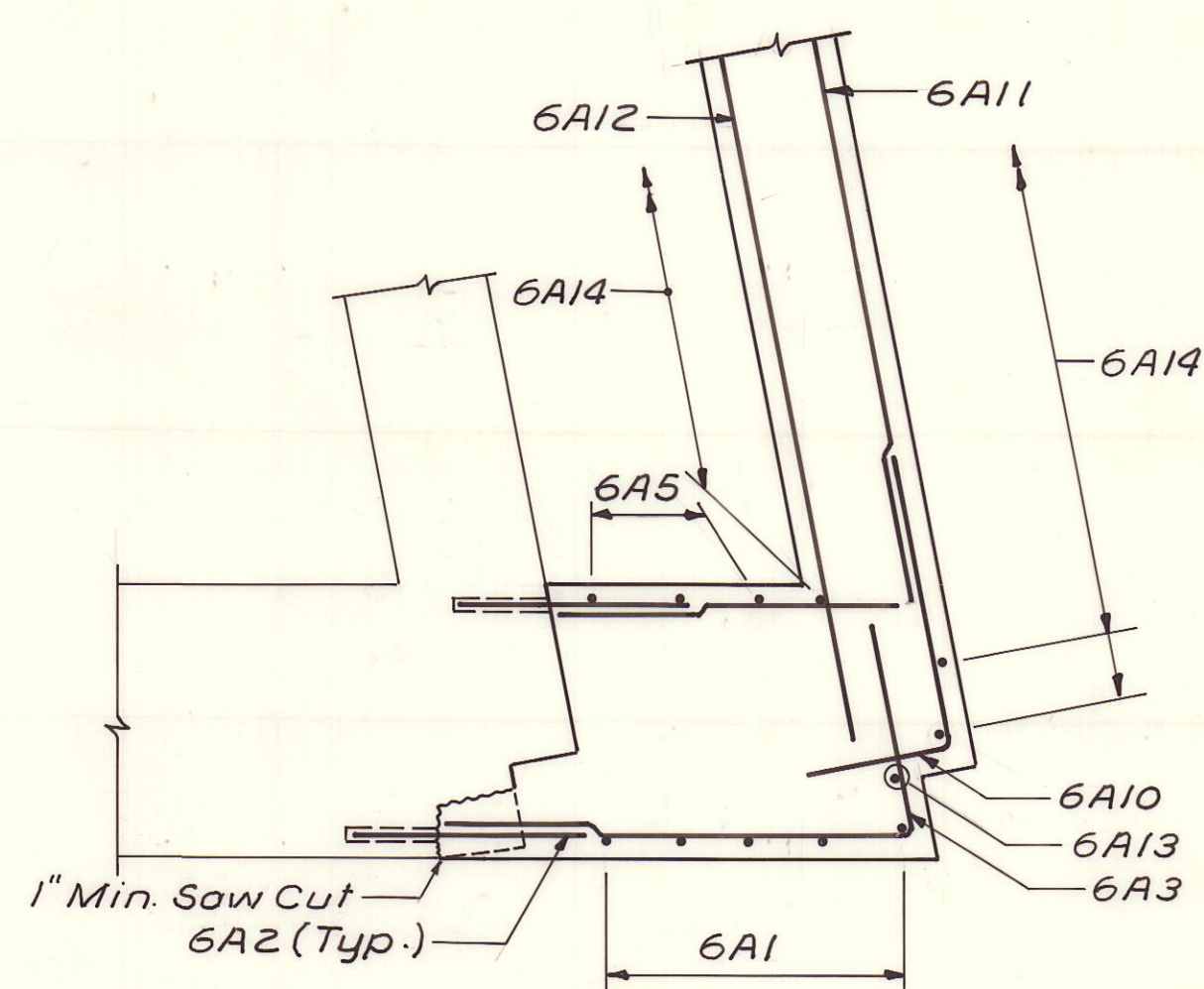
SECTION E-E
3/8" = 1'-0"



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



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



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

NOTES

1. For Location Of Sections E-E Thru P-P, See Sheet 14.

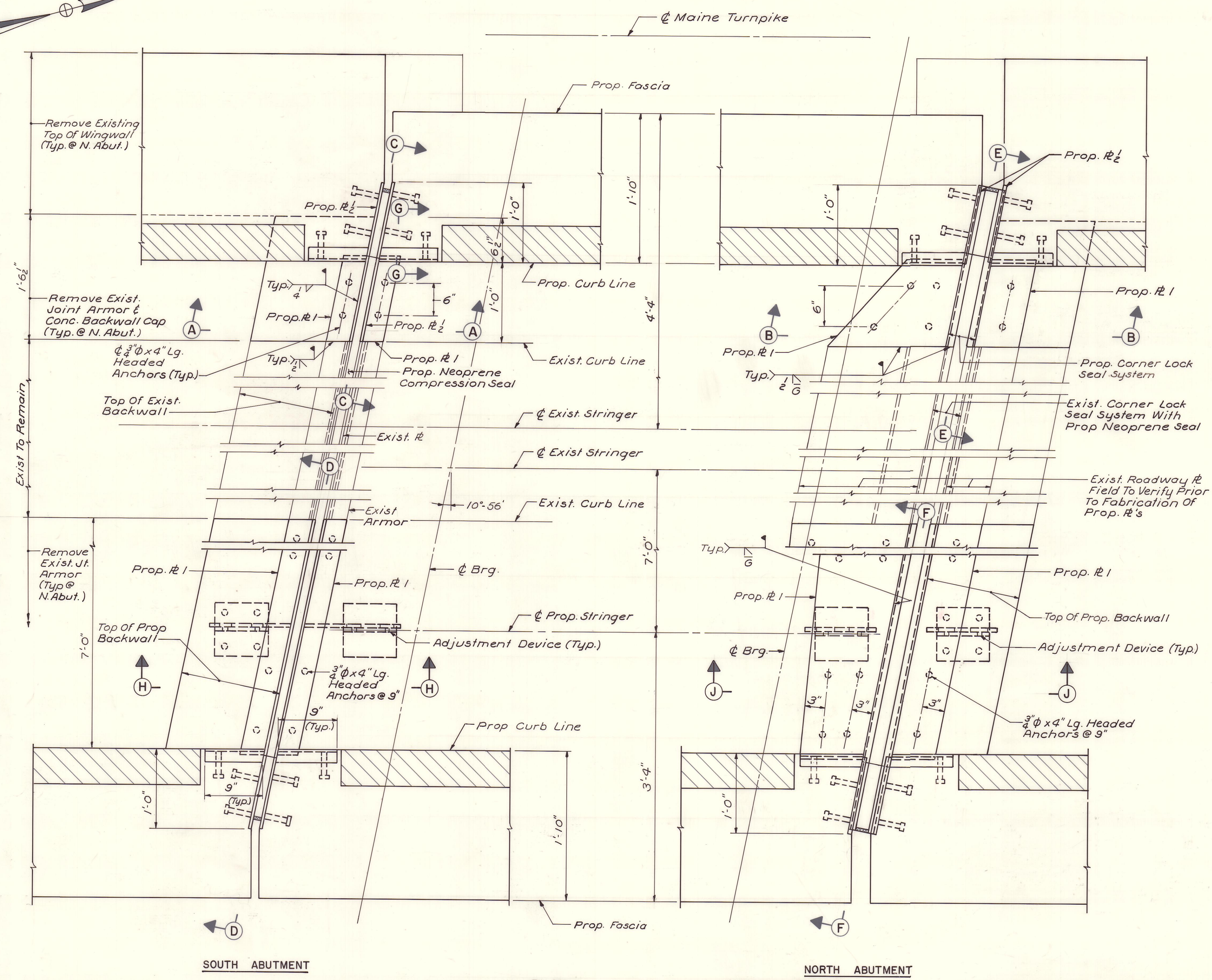
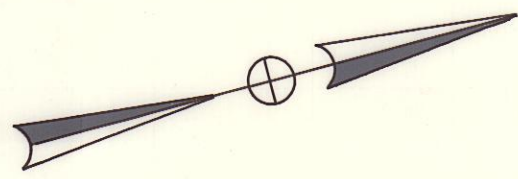
Maine Turnpike Authority
Maine Turnpike
 MAINE CENTRAL R.R.
 ABUTMENT DETAILS II

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS

By: R.A.L.	Date: 12-91
Designed: R.J.R.	12-91
Drawn: R.D.F.	12-91
Checked: R.A.L.	12-91
In charge of: R.A.L.	

Contract 92.9

Sheet No. 15 of 32



NOTES
 1. For Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H, and J-J, See Sheet 17.

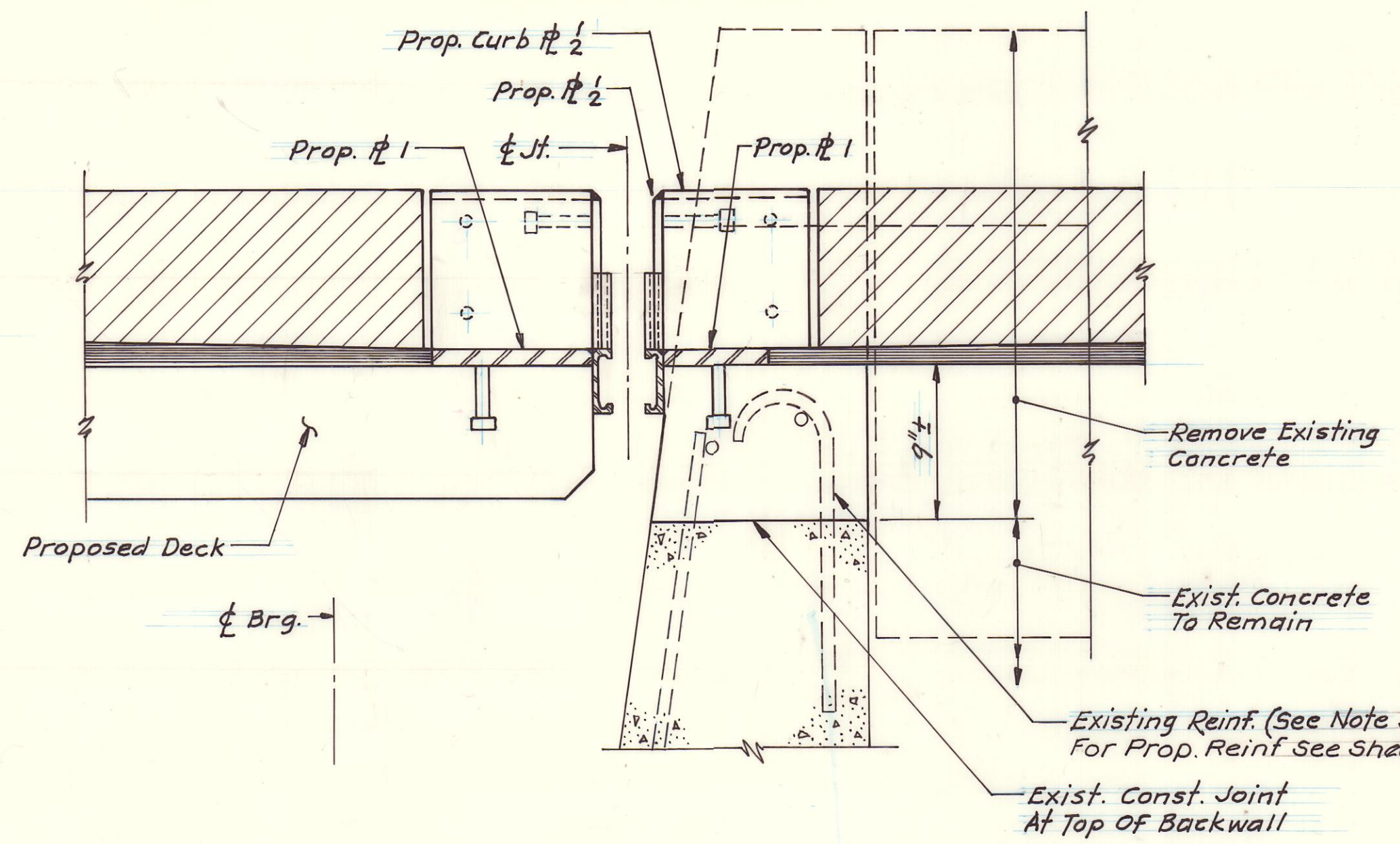
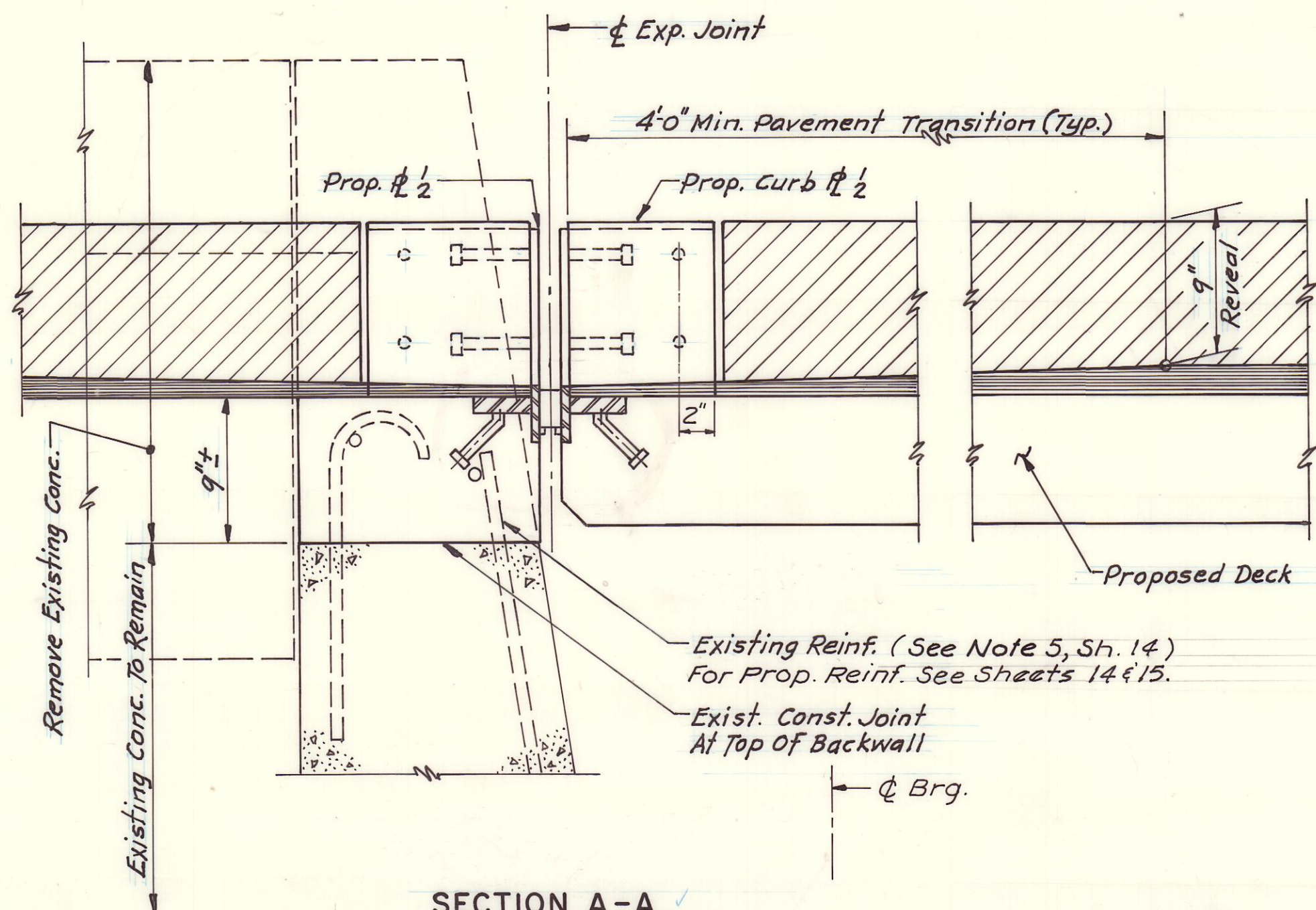
SOUTH ABUTMENT

NORTH ABUTMENT

PLAN
ABUTMENT JOINT DETAILS
 1/2" = 1'-0"

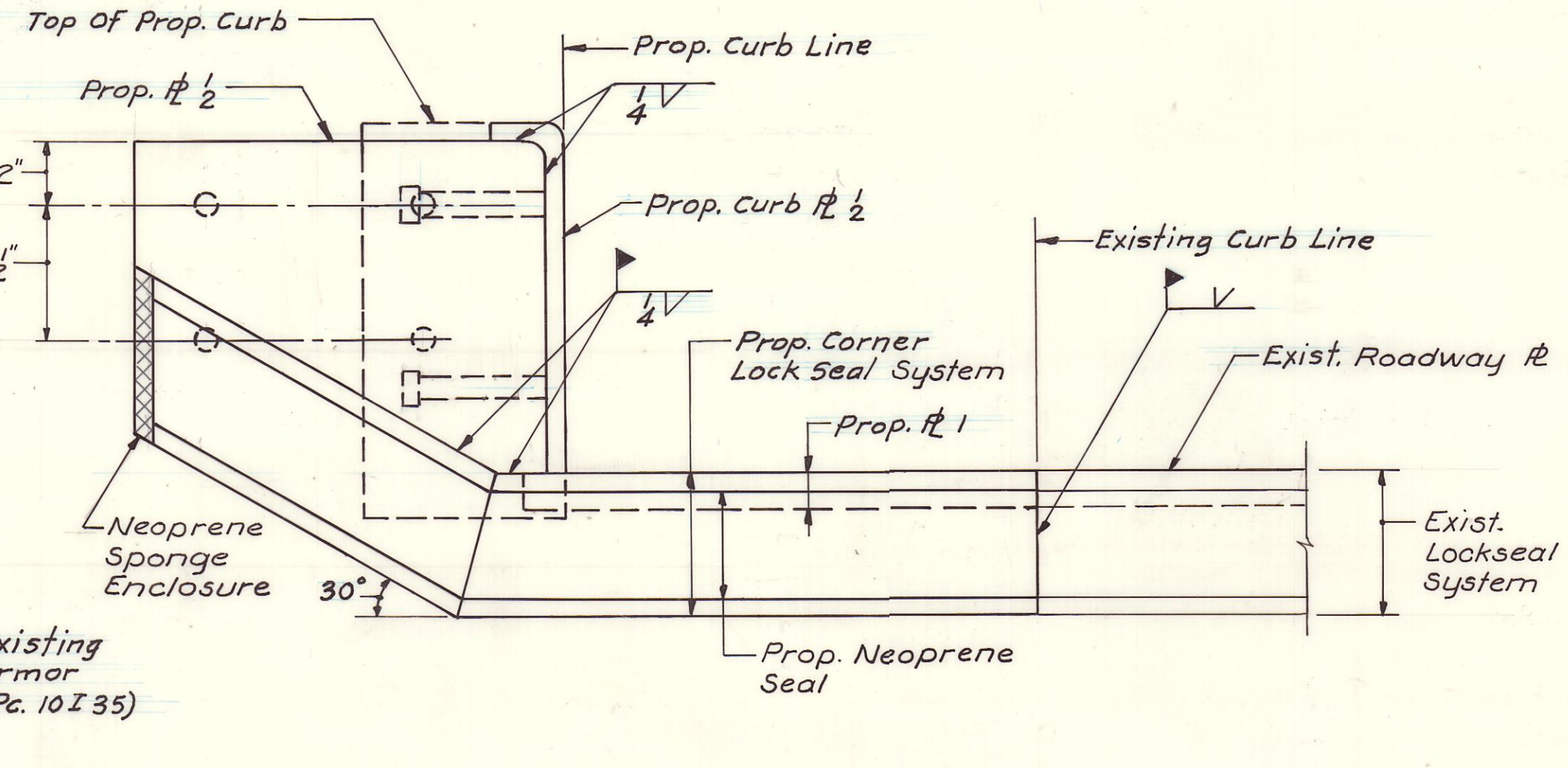
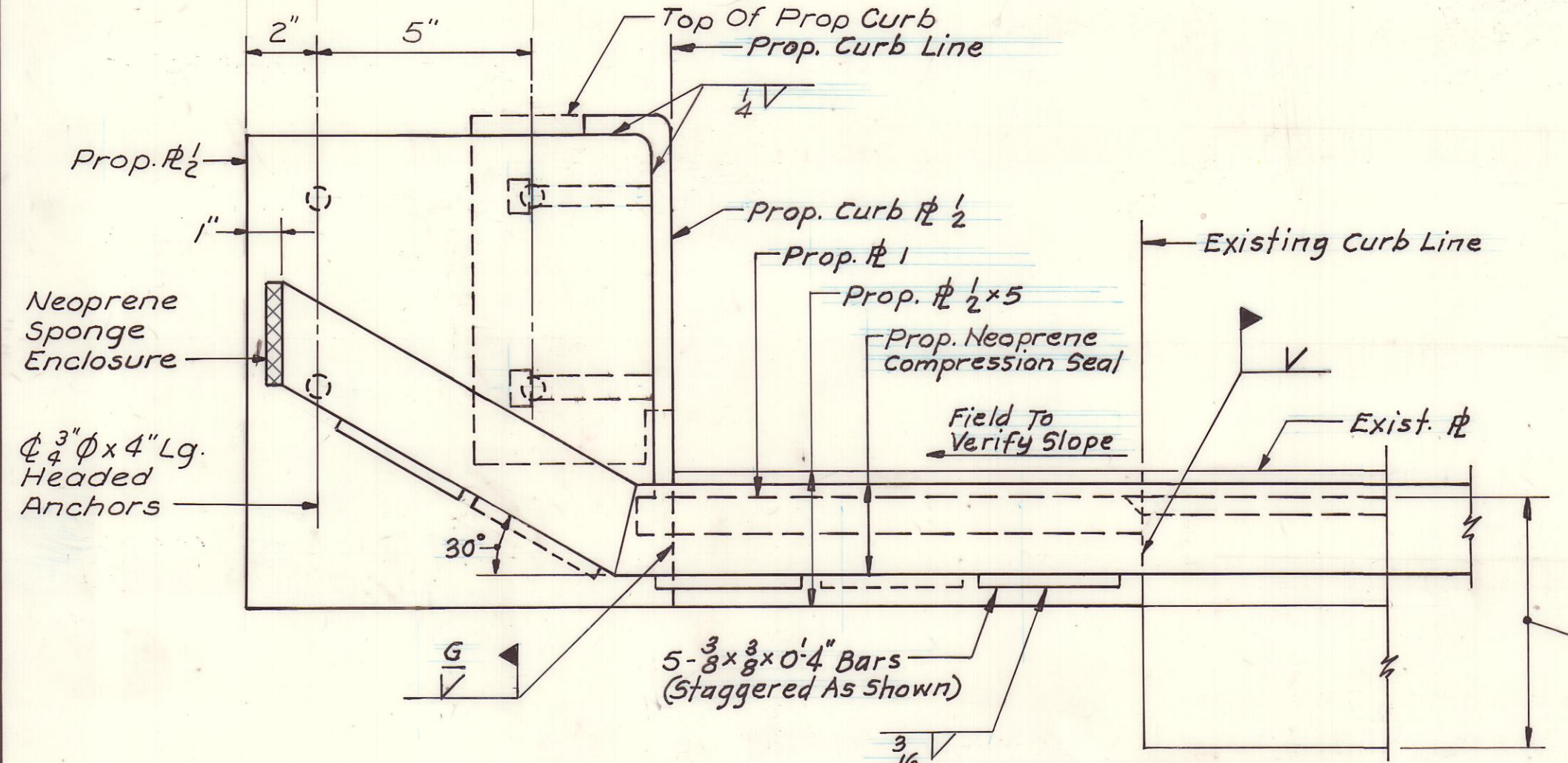
Maine Turnpike Authority Maine Turnpike		MAINE MT TURNPIKE		MAINE CENTRAL R.R. ABUTMENT JOINT DETAILS I	
				HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 92.9		Sheet No. 16 of 32			
By: Date: Designed: SHR 11-91 Drawn: R.D.F. 11-91 Checked: R.A.L. 11-91 In charge of: R.A.L.					

No.	Revision	By:	Date:



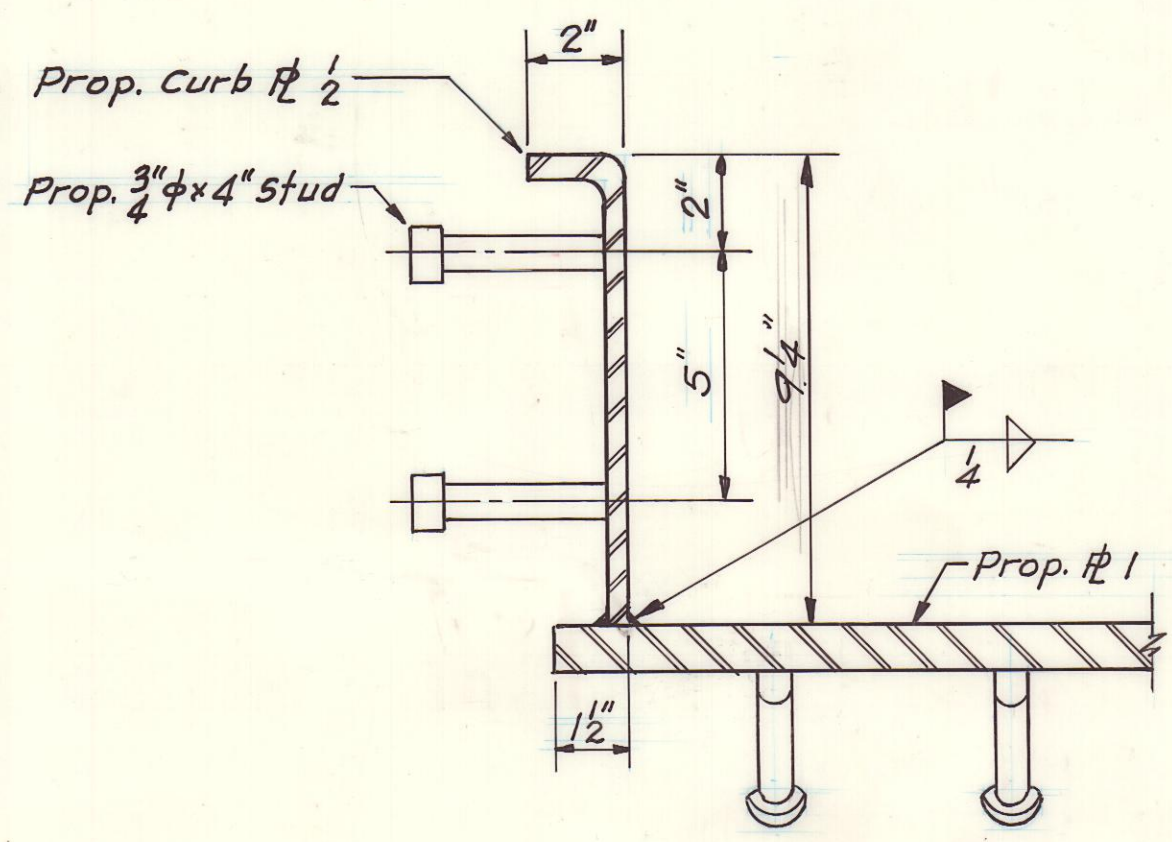
SECTION A-A
1/2" = 1'-0"

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

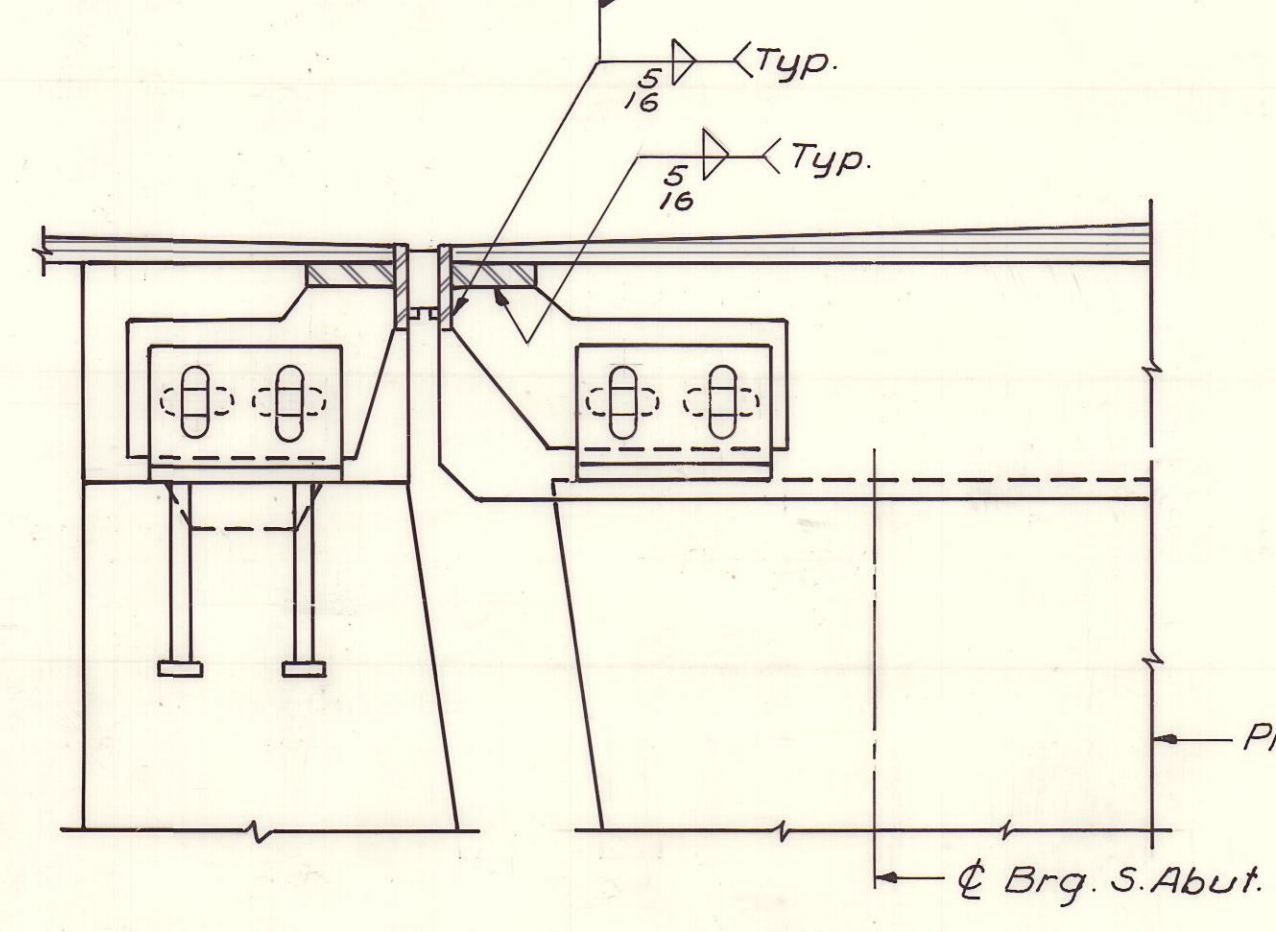


SECTION C-C (SHOWN)
SECTION D-D (SIMILAR)
3/8" = 1'-0"

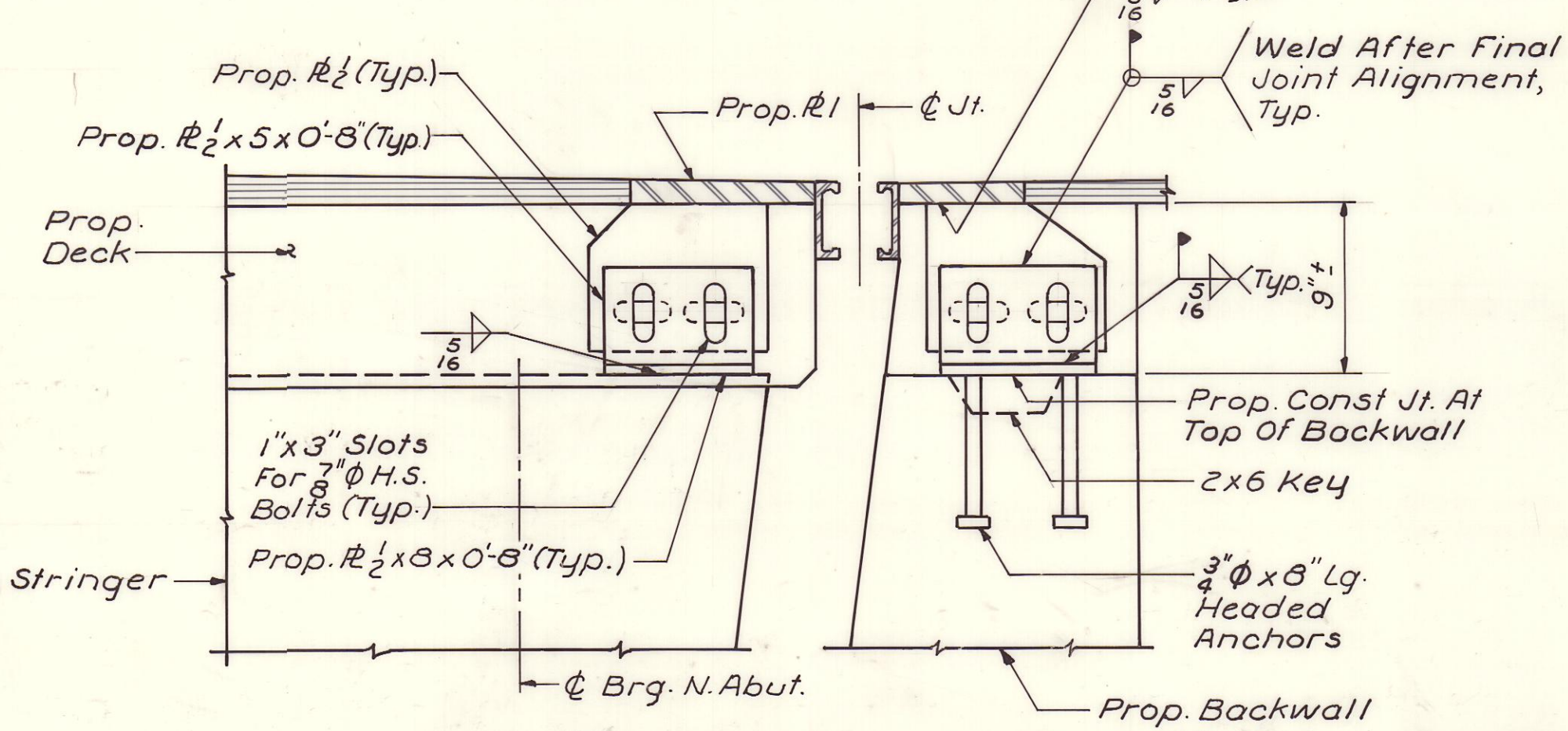
SECTION E-E (SHOWN)
SECTION F-F (SIMILAR)
3/8" = 1'-0"



SECTION G-G
(Typical @ Curb #2's)
3/8" = 1'-0"



SECTION H-H
(Similar To Section J-J)



ADJUSTMENT DEVICE DETAILS
1/2" = 1'-0"

SECTION J-J

NOTES
1. For Location Of Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H, And J-J, See Sh. 16.

Maine Turnpike Authority
Maine Turnpike

MAINE CENTRAL R.R.
ABUTMENT JOINT DETAILS II

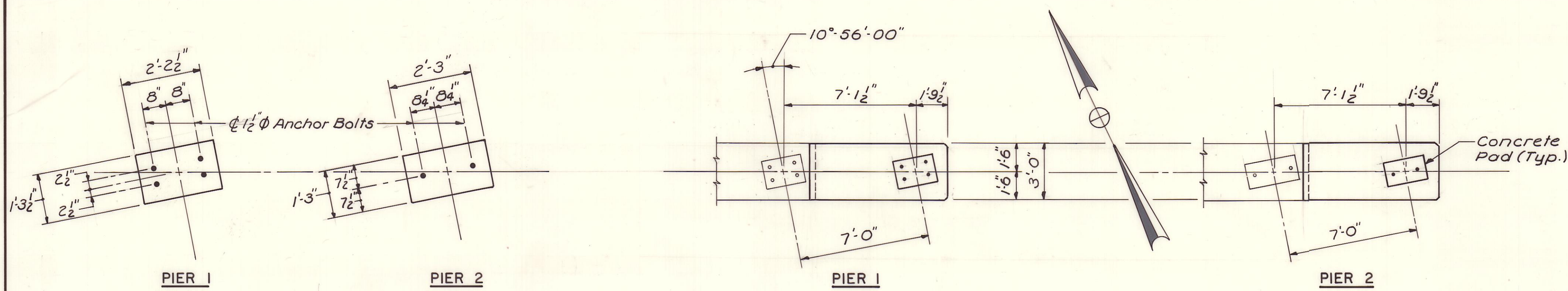
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

By:	Date:
Designed	S.H.R. 10-91
Drawn	R.D.F. 10-91
Checked	R.A.L. 10-91
In charge of:	R.A.L.

Contract 92.9

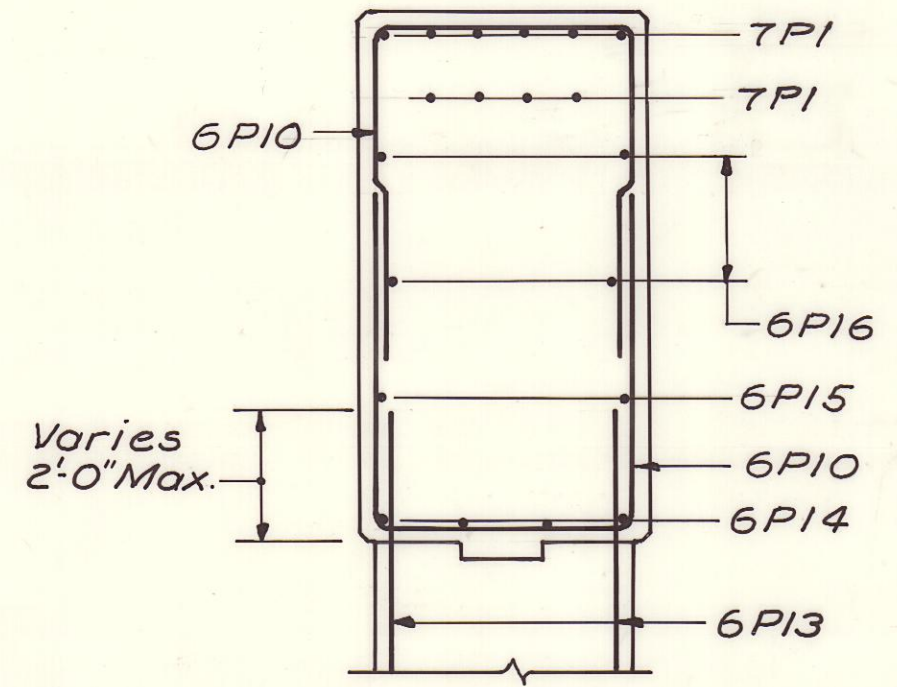
Sheet No. 17 of 32

18-0008
MAKEPEACE



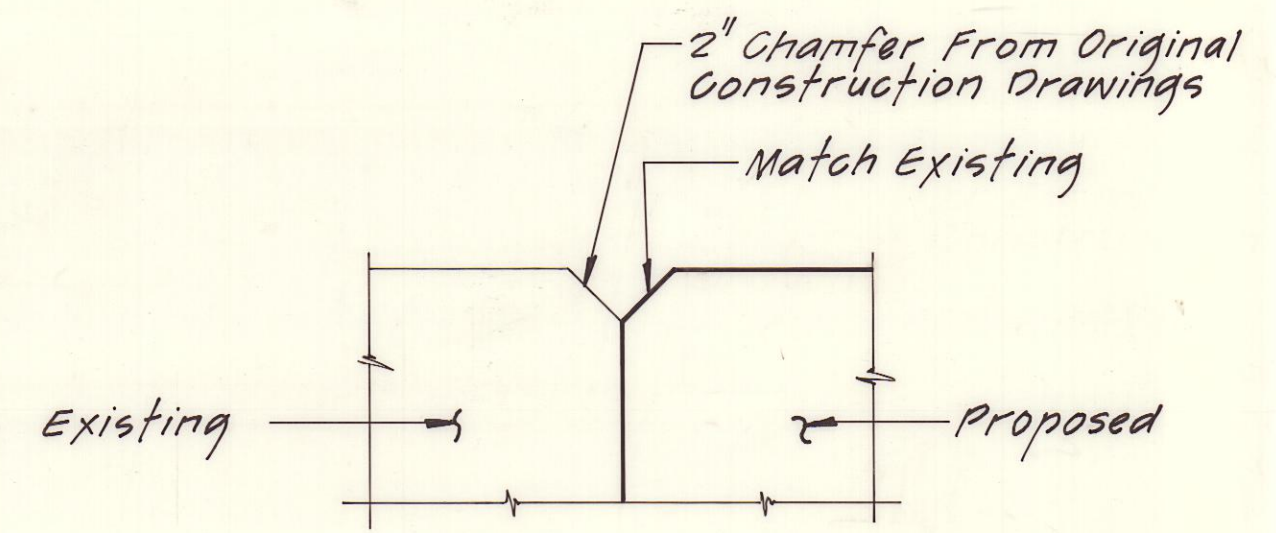
CONCRETE PADS
(Anchor Bolt Locations)
1/2" = 1'-0"

PIER EXTENSIONS
1/4" = 1'-0"

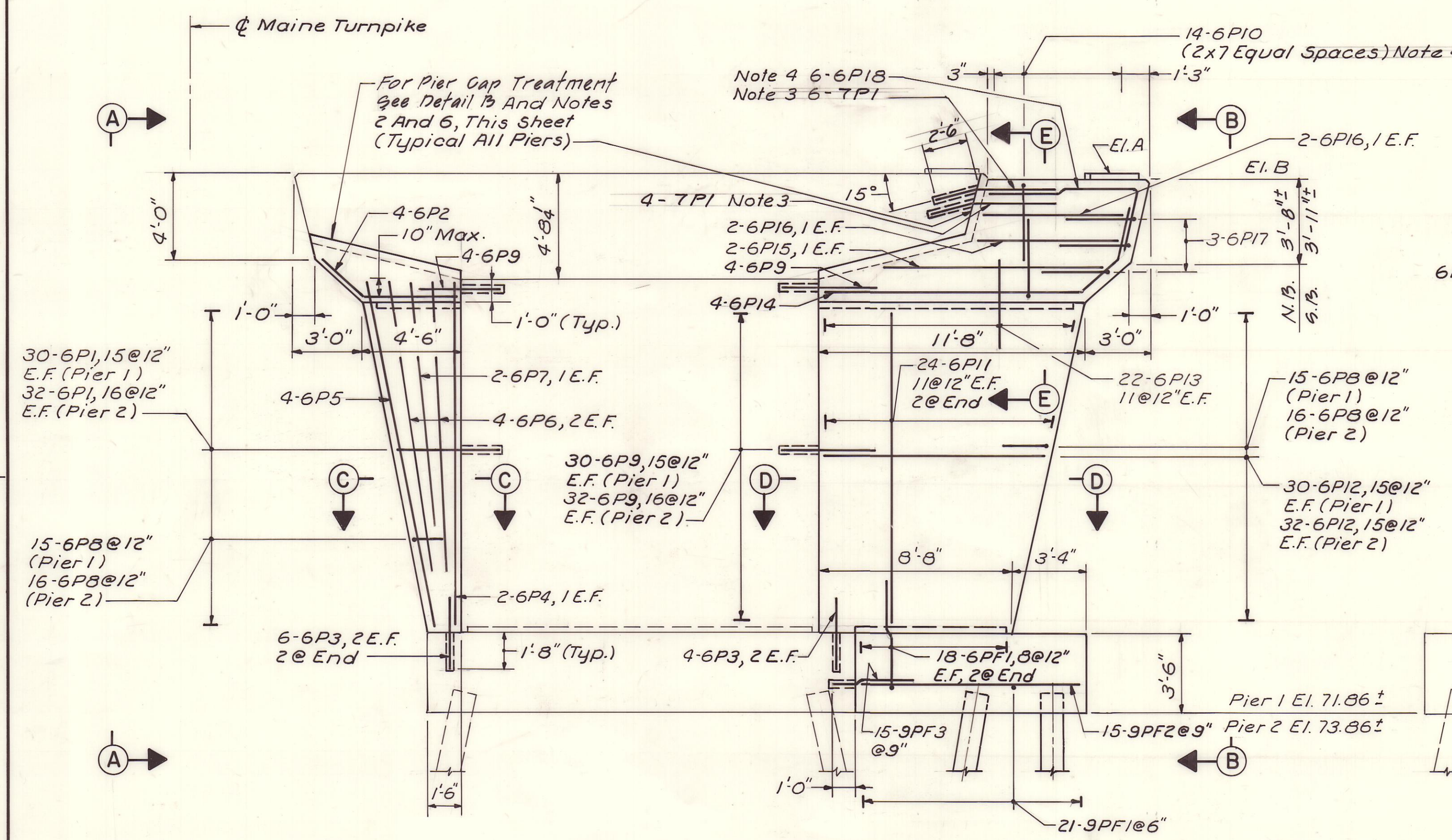


SECTION E-E
1/2" = 1'-0"

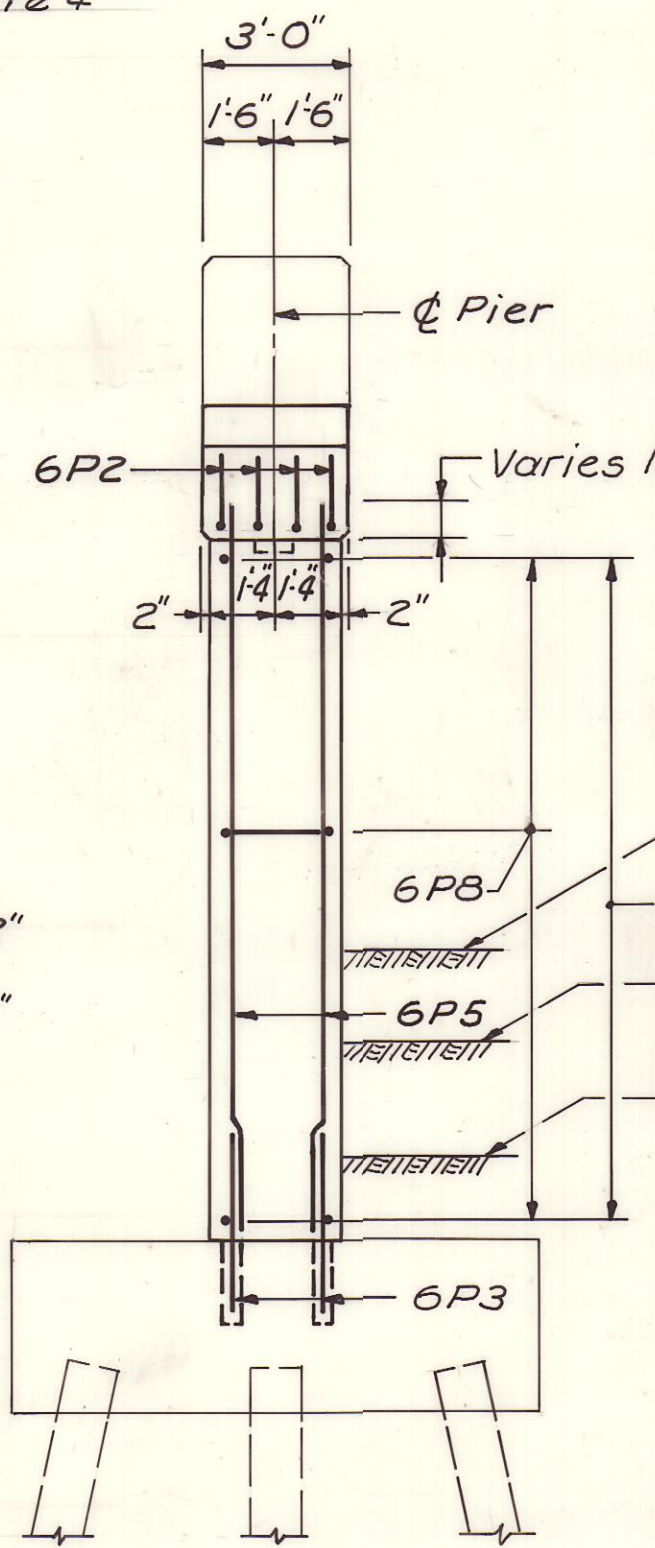
ELEVATIONS		
LOCATION	A	B
Pier 1 N.B.	95.30	95.26
Pier 2 N.B.	97.88	97.84
Pier 1 S.B.	95.84	95.80
Pier 2 S.B.	98.39	98.35



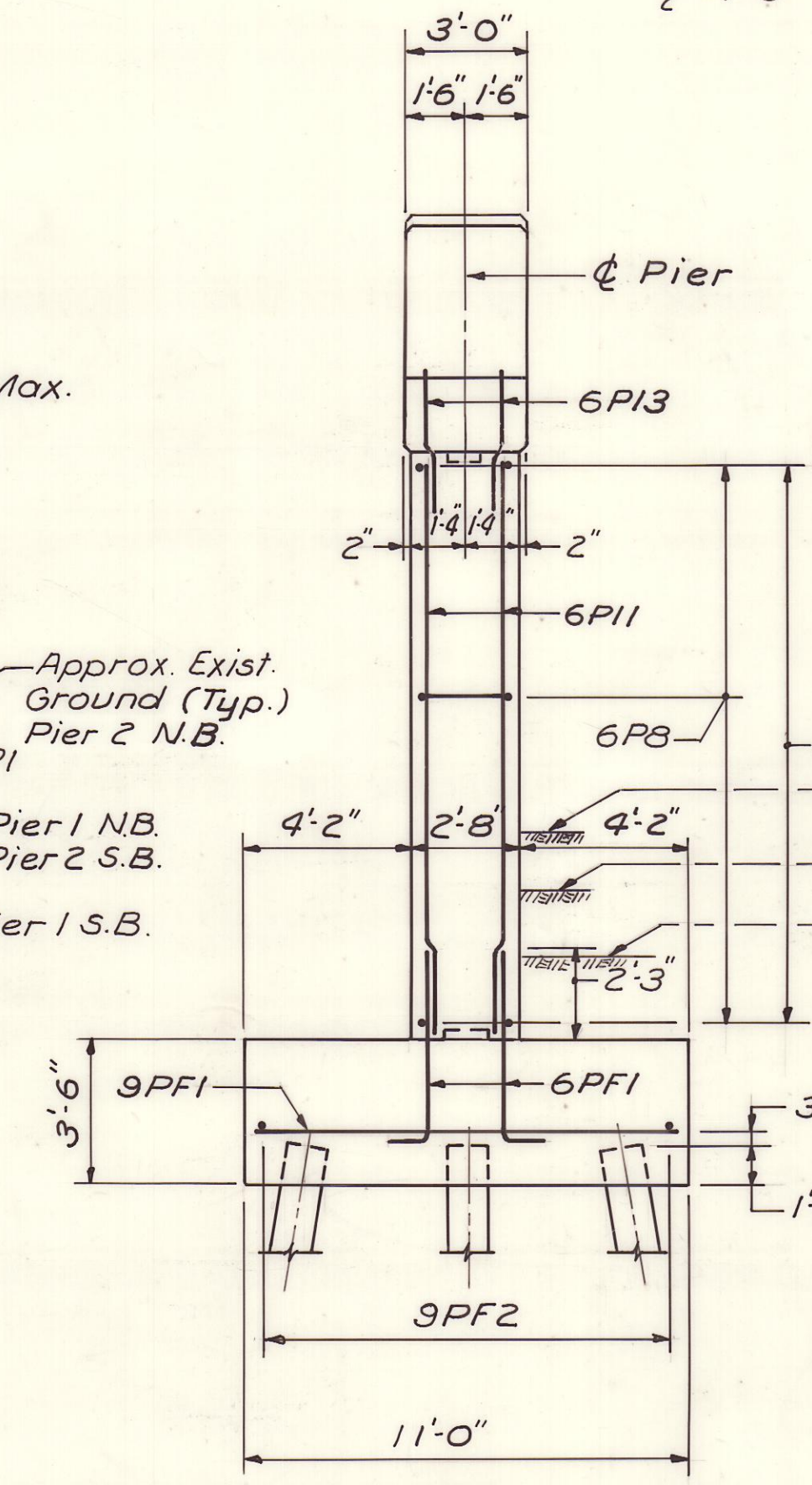
DETAIL A
No Scale



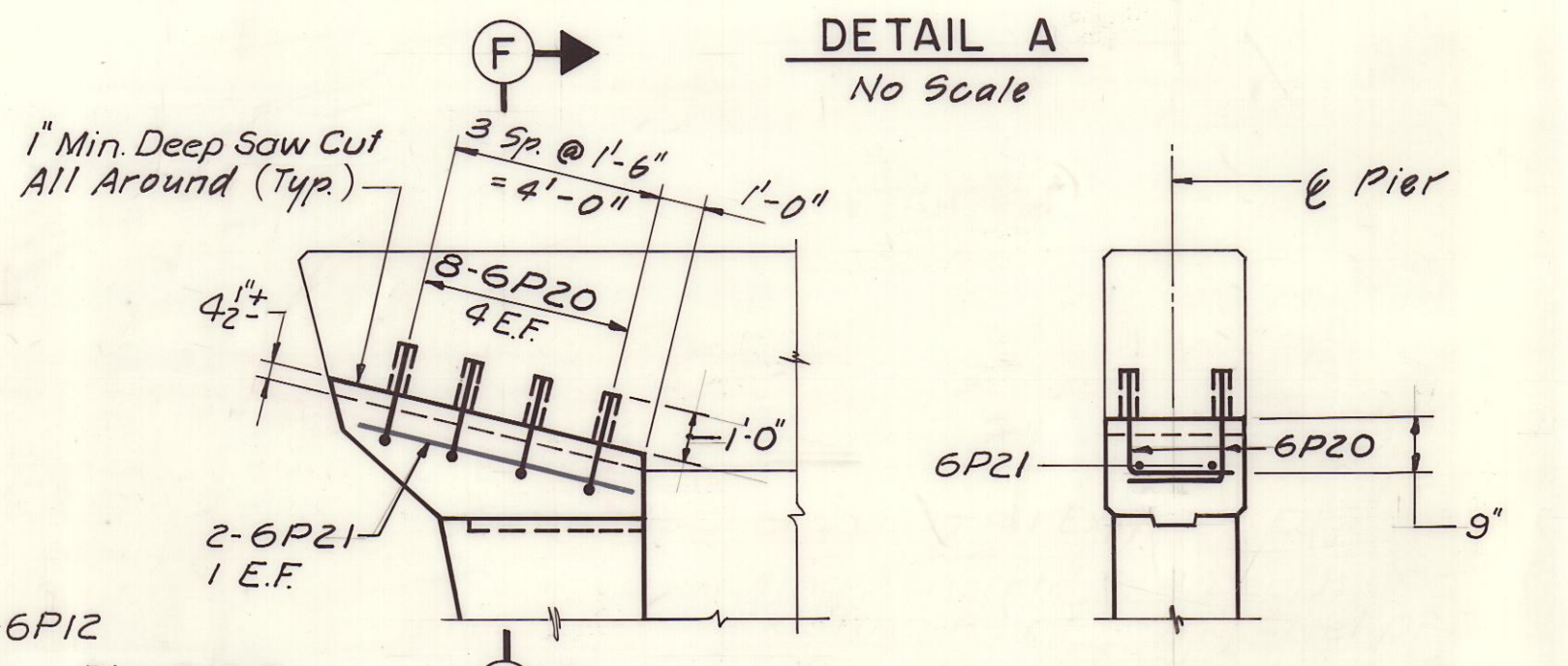
ELEVATION PIER 1 NORTHBOUND
PIER 1 SOUTHBOUND SIMILAR
PIER 2 NORTHBOUND & SOUTHBOUND SIMILAR
1/4" = 1'-0"



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



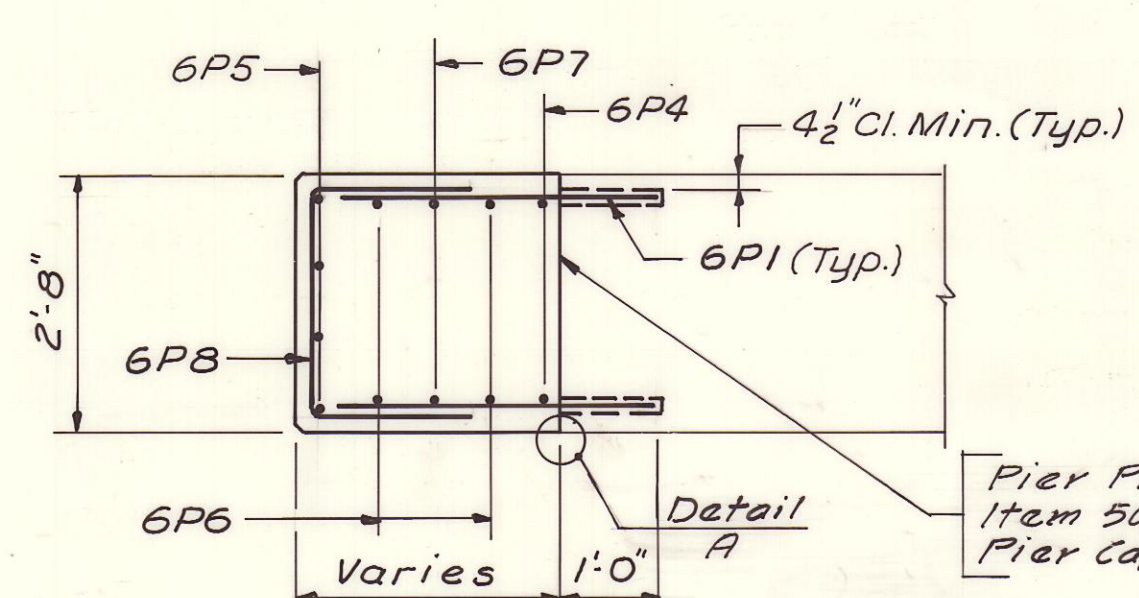
VIEW B-B
1/4" = 1'-0"



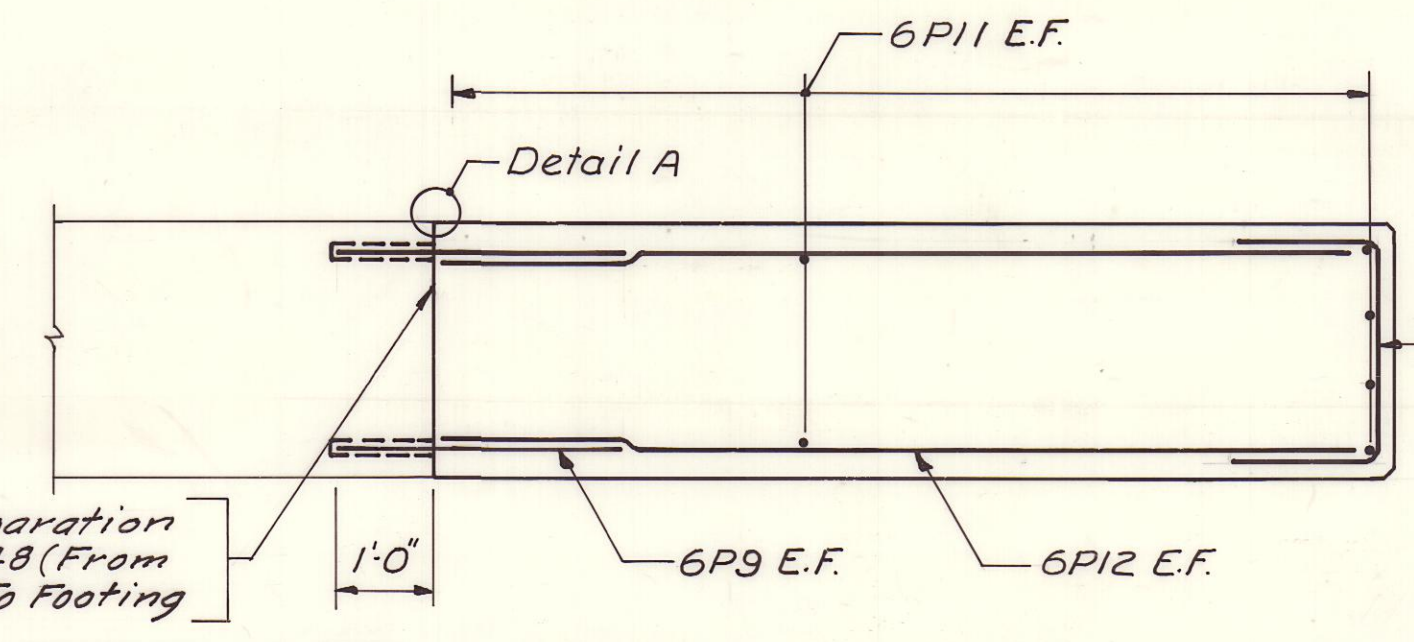
DETAIL B
1/4" = 1'-0"

SECTION F-F
1/4" = 1'-0"

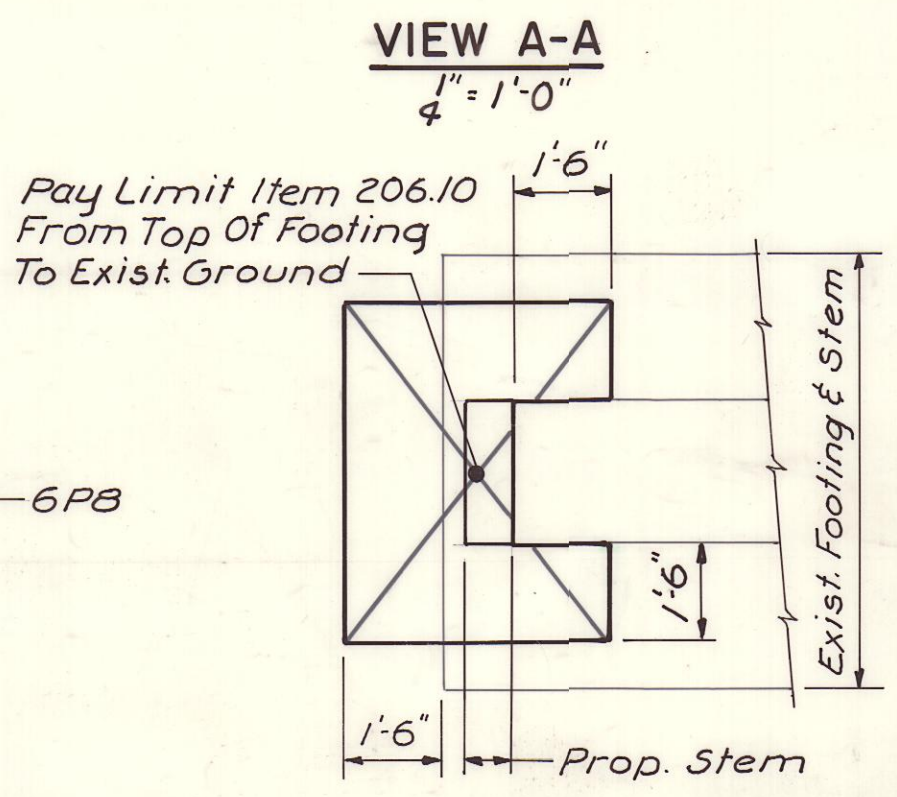
- NOTES:**
- Two Inch Chamfer On All Exposed Edges.
 - Remove Existing Concrete To A Plane One Inch Below The Deepest Existing Reinforcing Steel Or To Sound Concrete Whichever Is Greater.
 - Drill And Grout Bars TPI To Clear Exposed Reinforcing Steel And Existing Bearing Shoes Anchor Bolts.
 - Set Bars 6P10 & 6P13 To Clear Proposed Bearing Shoe Anchor Bolts.
 - Reinforcing Bars Doweled Into The Existing Pier Cap Shall Be Grouted In Place With An Epoxy Grout. A Non-shrink Cementitious Grout Shall Be Used On All Other Dowels.
 - The Surface Of The Excavated Area And The Exposed Reinforcing Steel Shall Be Sand Blasted Free Of Dust, Loose Particles, Rust And Other Foreign Materials.



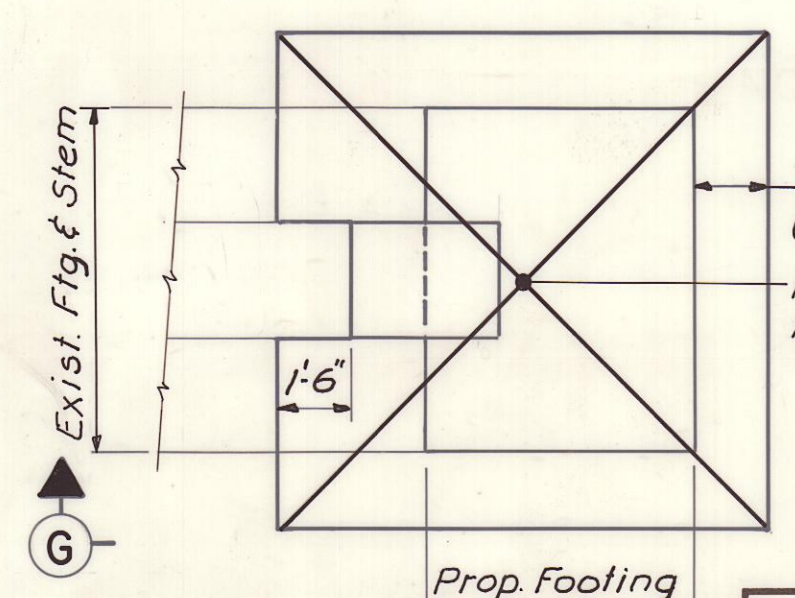
SECTION C-C
1/2" = 1'-0"



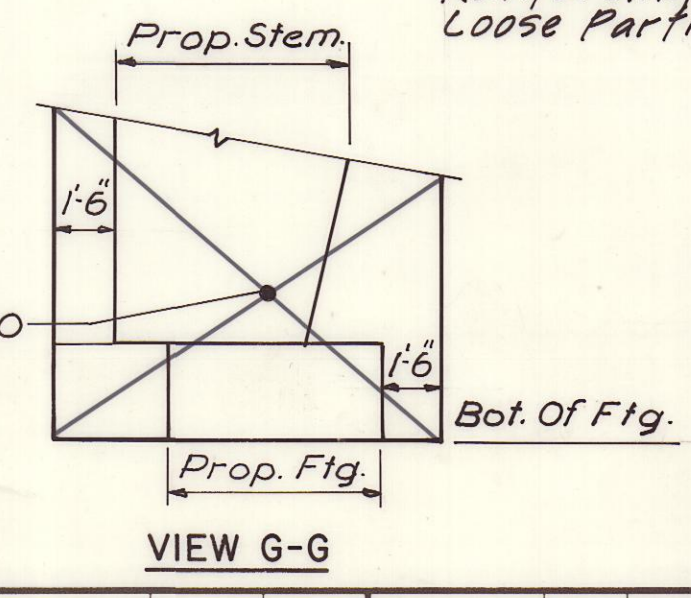
SECTION D-D
1/2" = 1'-0"



PLAN-MEDIAN END



PLAN-FASCIA END



VIEW G-G

PAY LIMITS (Item 206.10)
No Scale

No.	Revision	By:	Date:

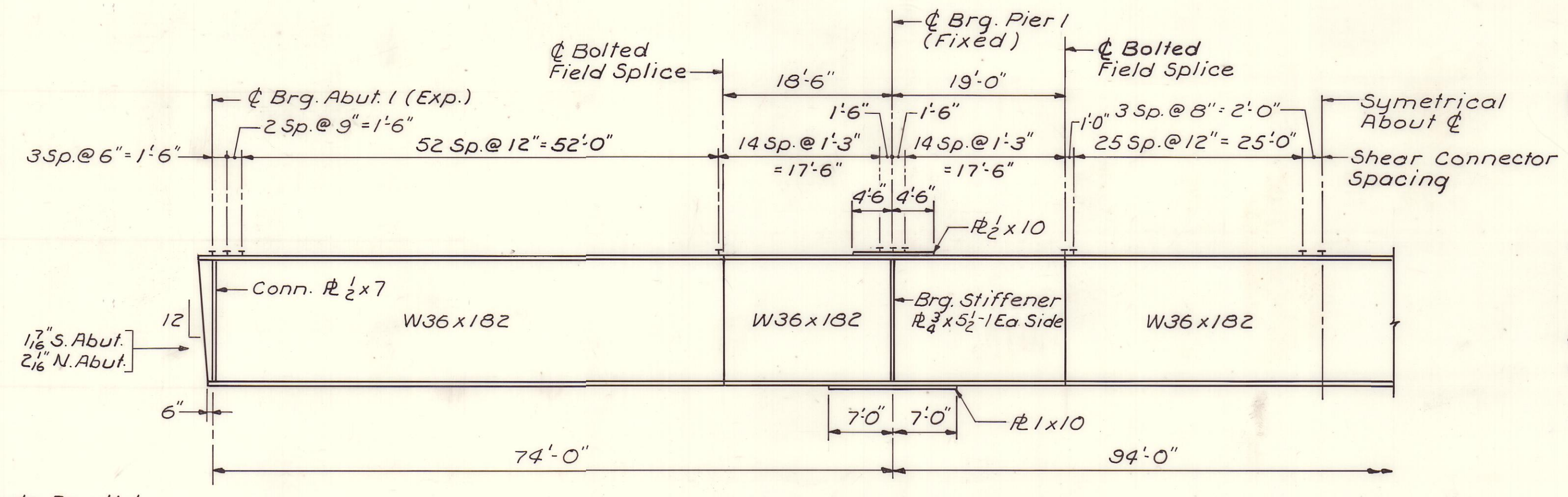
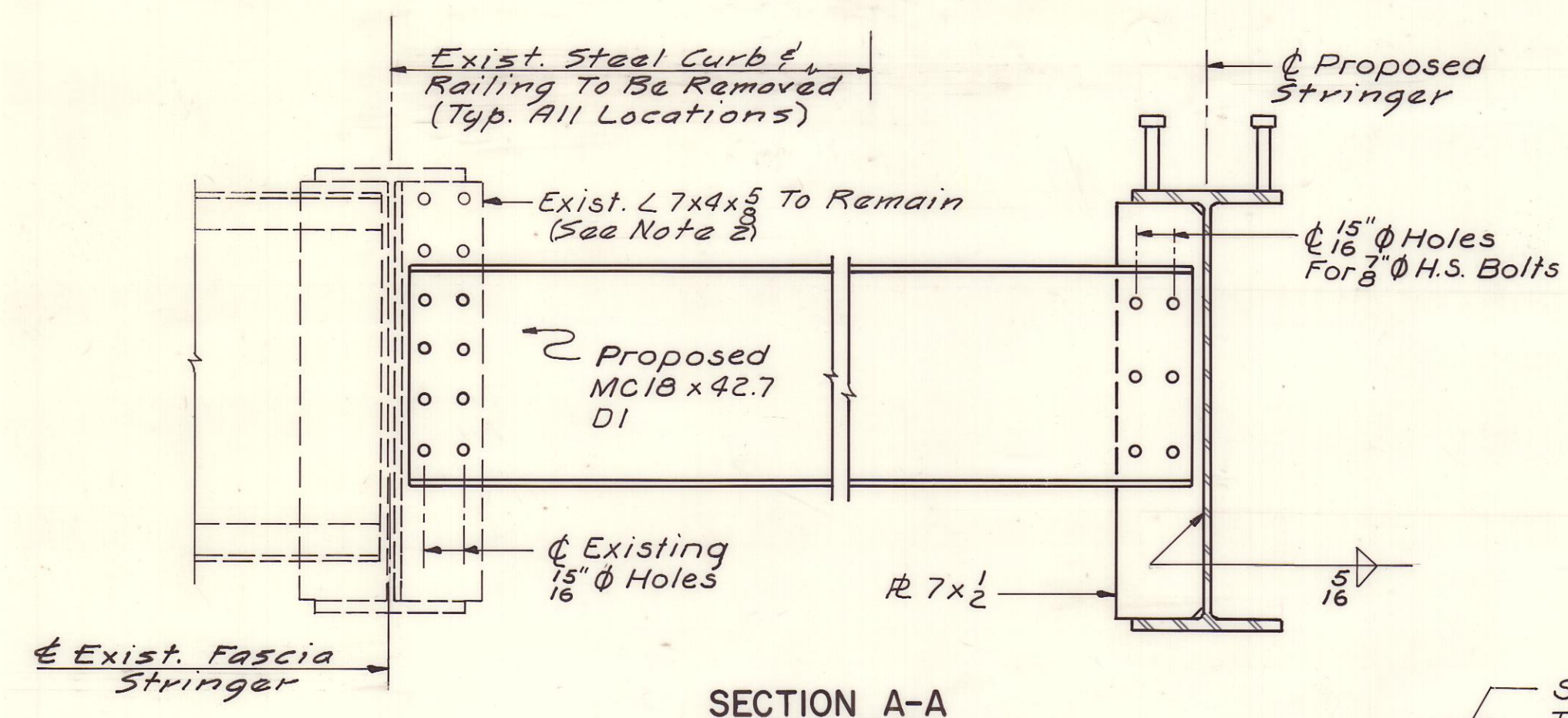
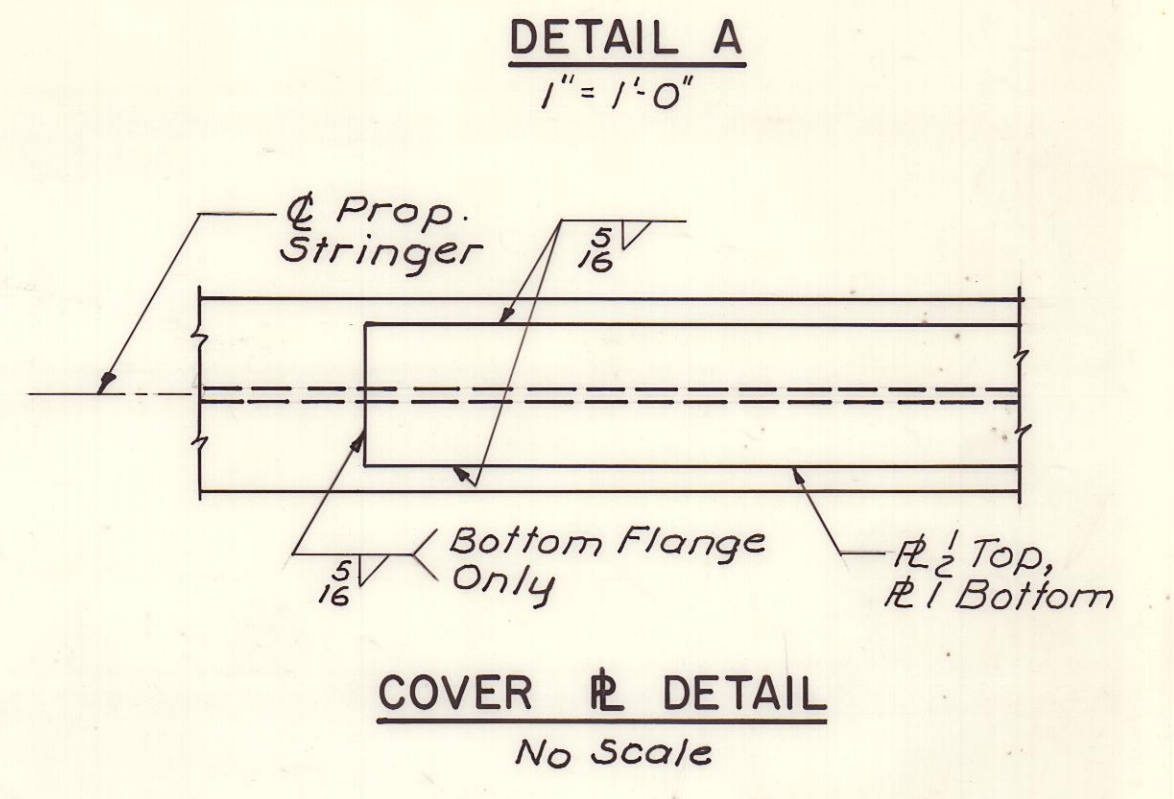
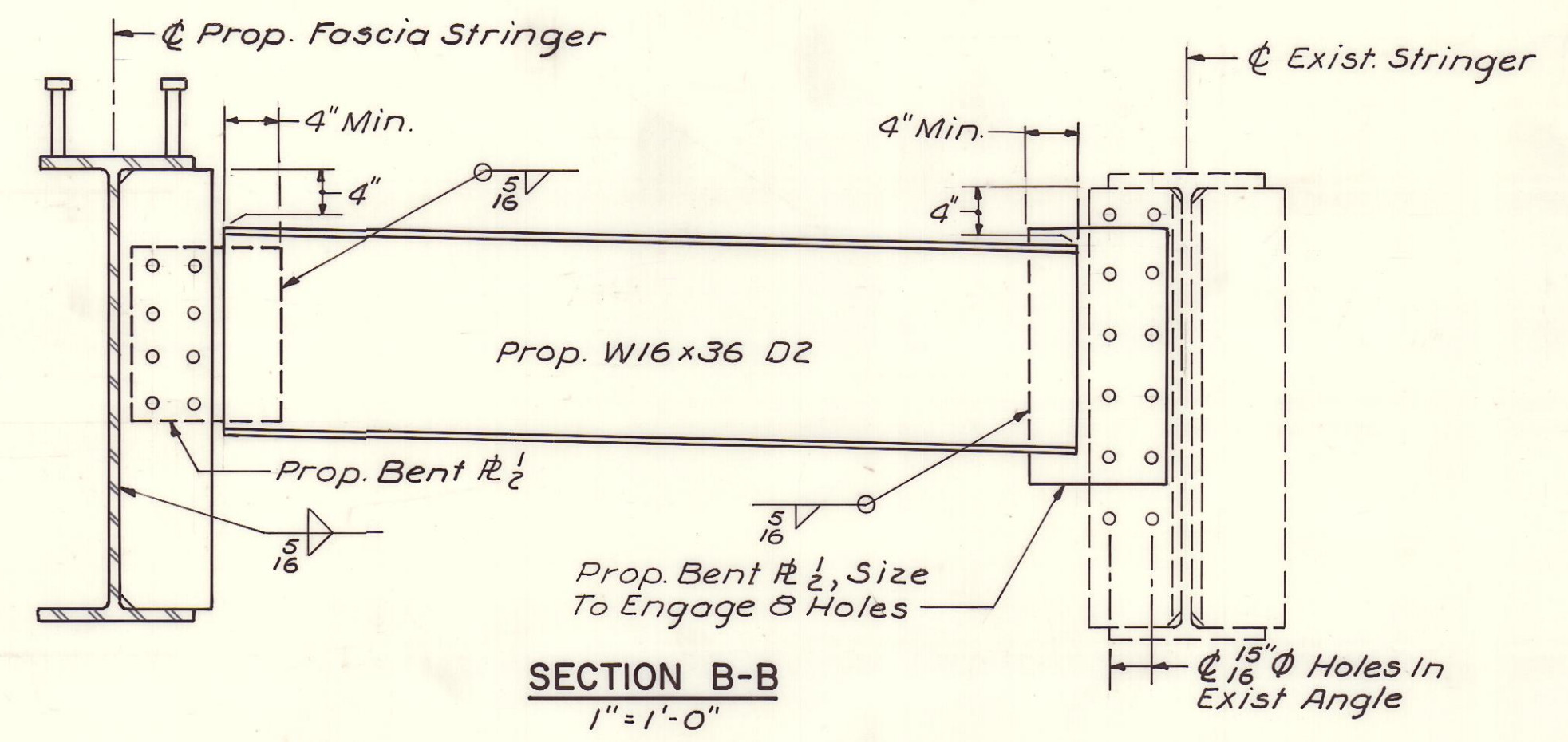
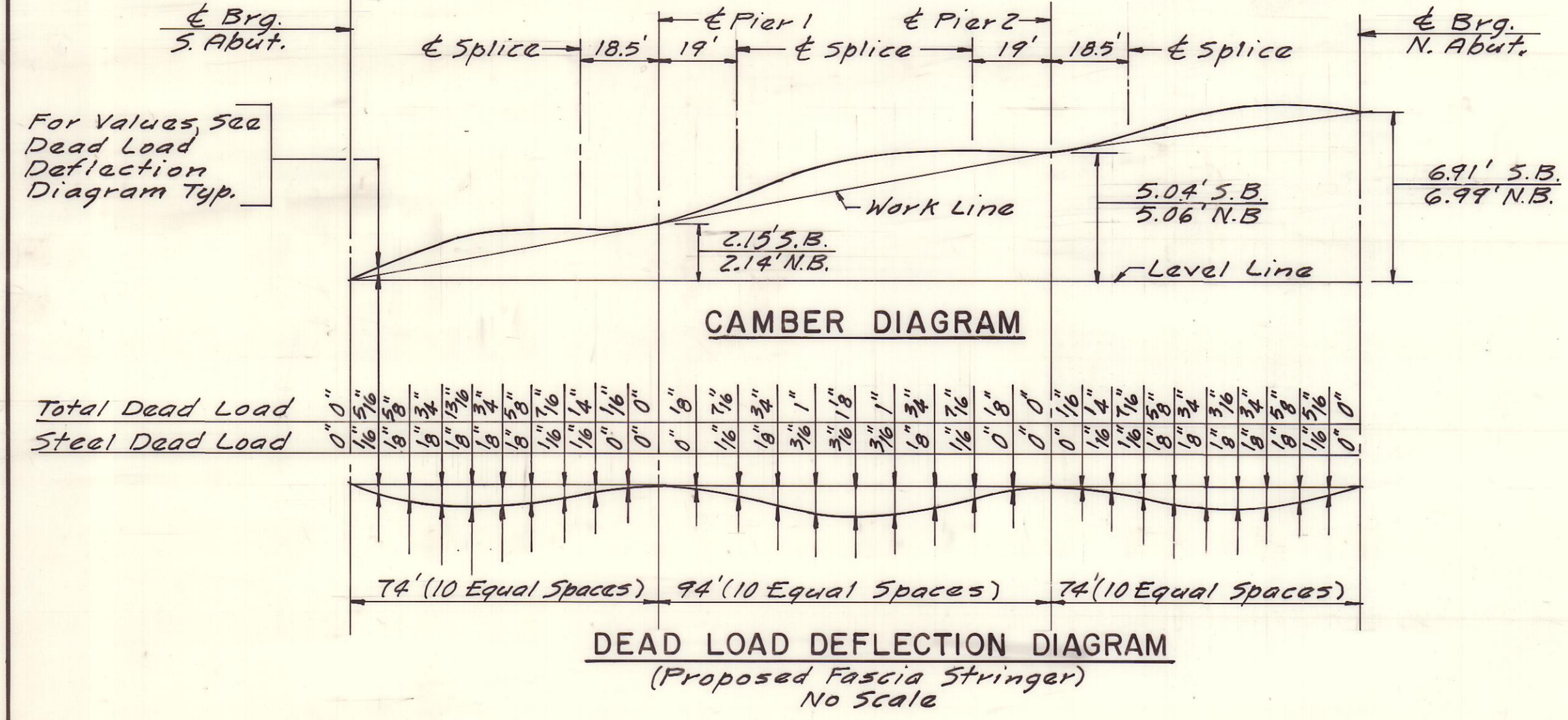
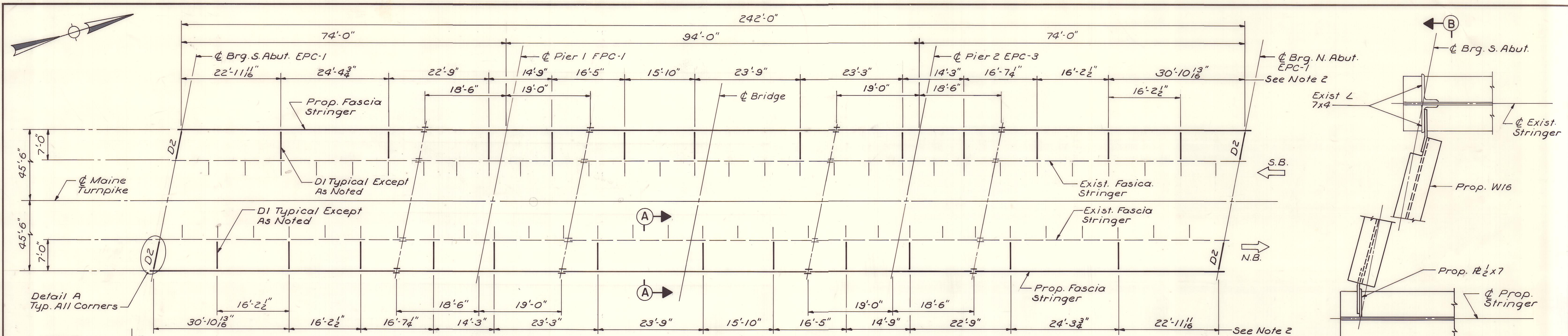
Maine Turnpike Authority
Maine Turnpike

MAINE CENTRAL R.R.
PIER DETAILS

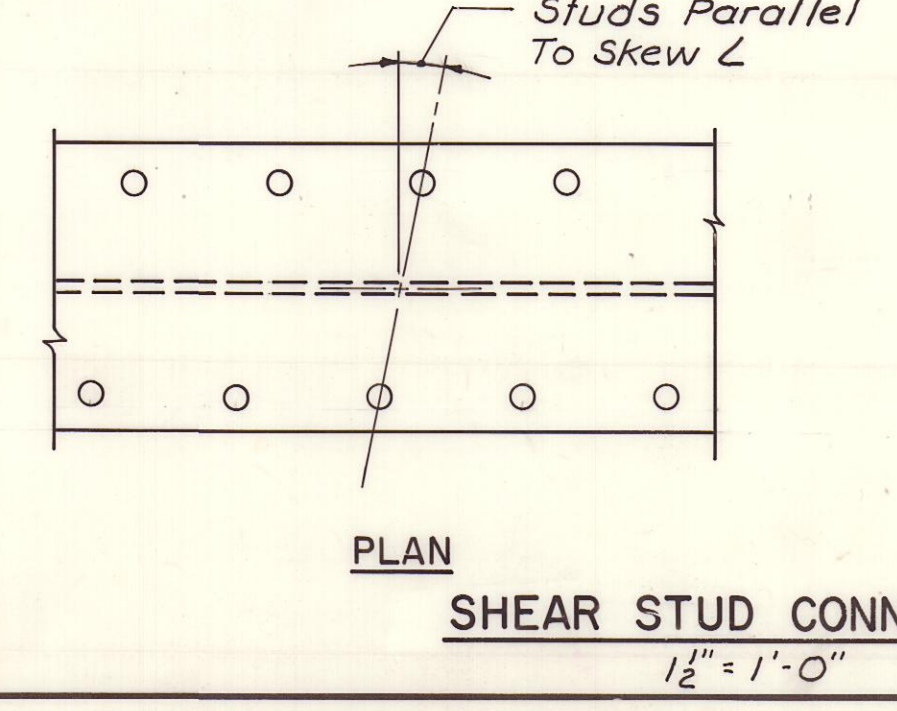
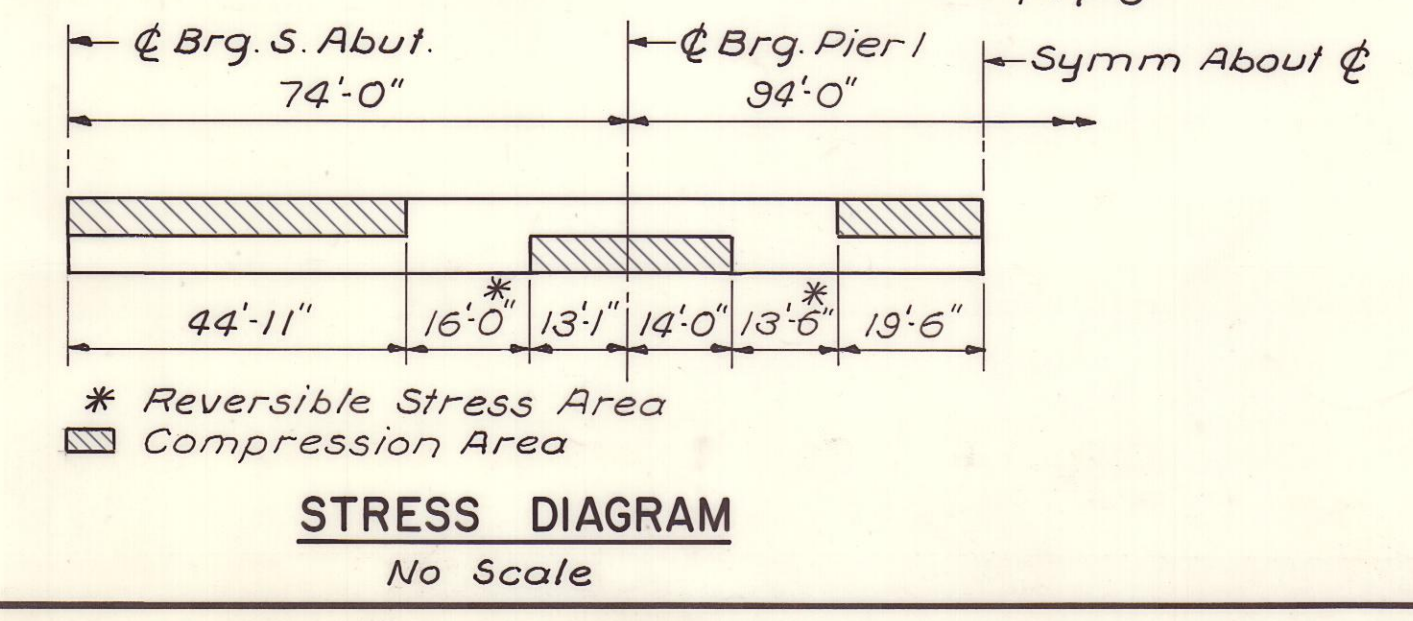
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9
Sheet No. 18 of 32

Designed: J.S. 11-91
Drawn: R.D.F. 11-91
Checked: S.H.R. 11-91
In charge of: R.A.L.



- NOTES**
- Field Measure Location Of Existing Holes In L 7x4. Locate Proposed DI To Engage & Holes As Shown. The Fabricator Has The Option Of Providing 2" Plate As Shown In Section B-B This sheet.
 - Diaphragm Spacing And Holes In L7x4 Is As Shown On The Original Construction Drawings And Is Not Guaranteed. Verify By Field Measurement.
 - See BD111-89 For Bolted Splice Details
 - See BD112-89 For Diaphragm Details.



Note
At Stringer Splices The Stud Spacing May Be Varied To Clear Splice Fasteners Providing The Same Total Number Of Studs Is Maintained In A 5'-0" Length Of Beam.

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Maine Turnpike

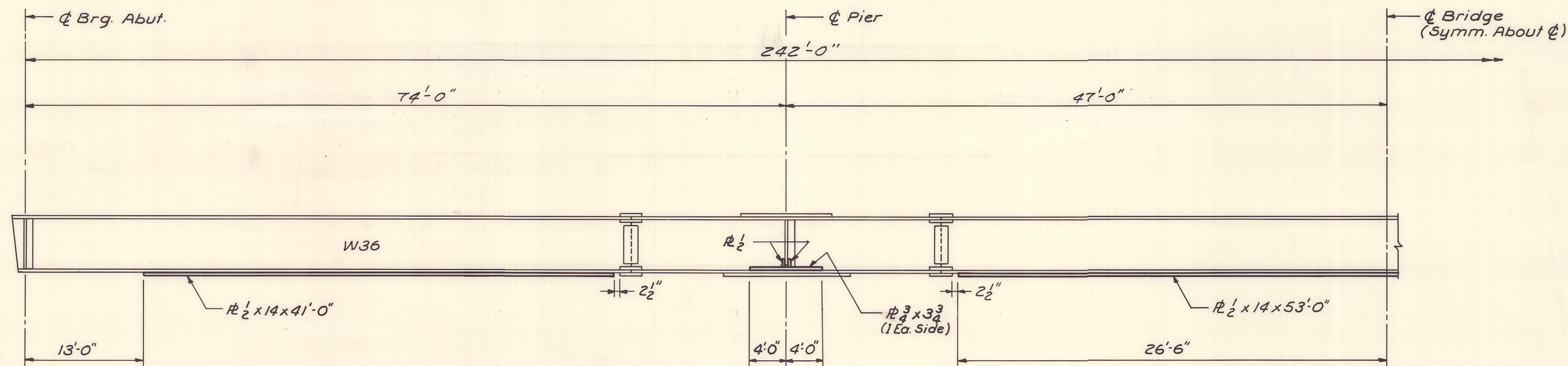
MAINE CENTRAL R.R.
FRAMING PLAN

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

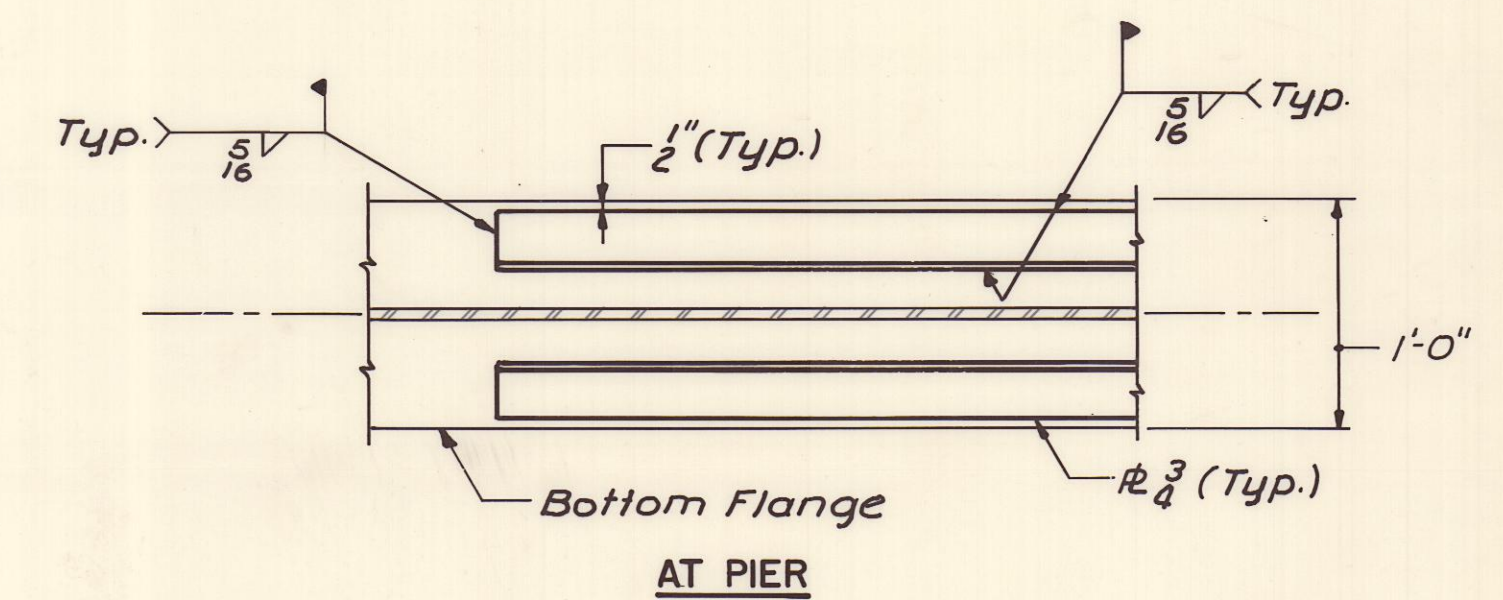
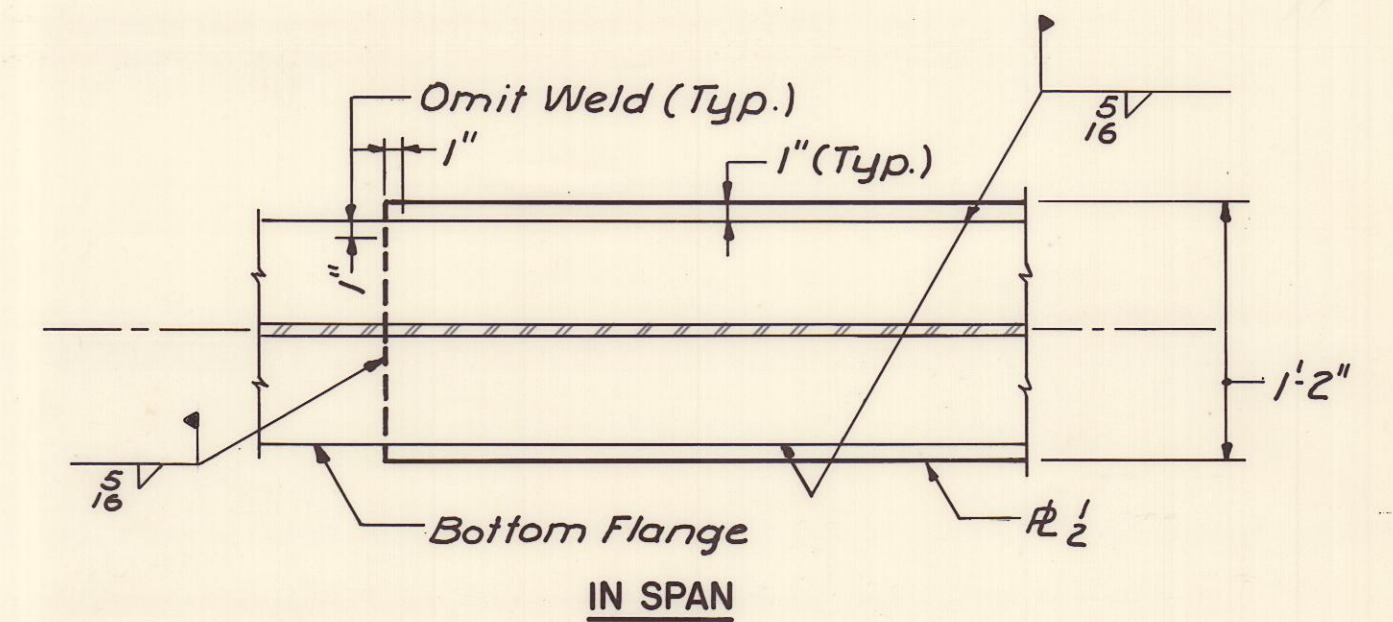
Contract 92.9 Sheet No. 19 of 32

By:	Date:
Designed: I.S.	12-91
Drawn: R.D.F.	12-91
Checked: R.J.R.	1-92
In charge of: R.A.L.	

Note
Exist. Bulb Angle
Shear Connectors
Are Not Shown



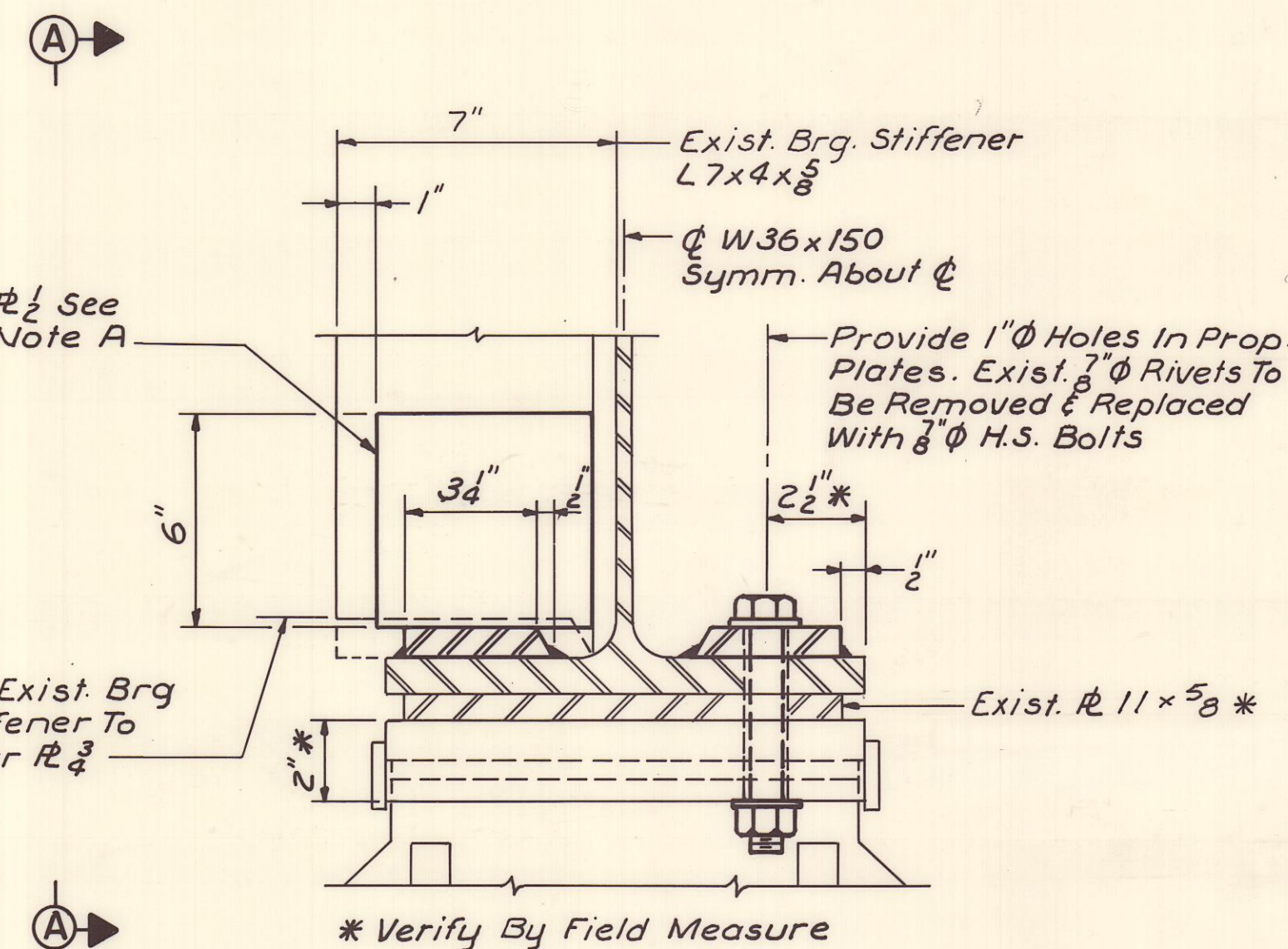
STRINGER ELEVATION
EXISTING FASCIA STRINGER
(4 Locations)
No Scale



COVER PLATE DETAILS
No Scale

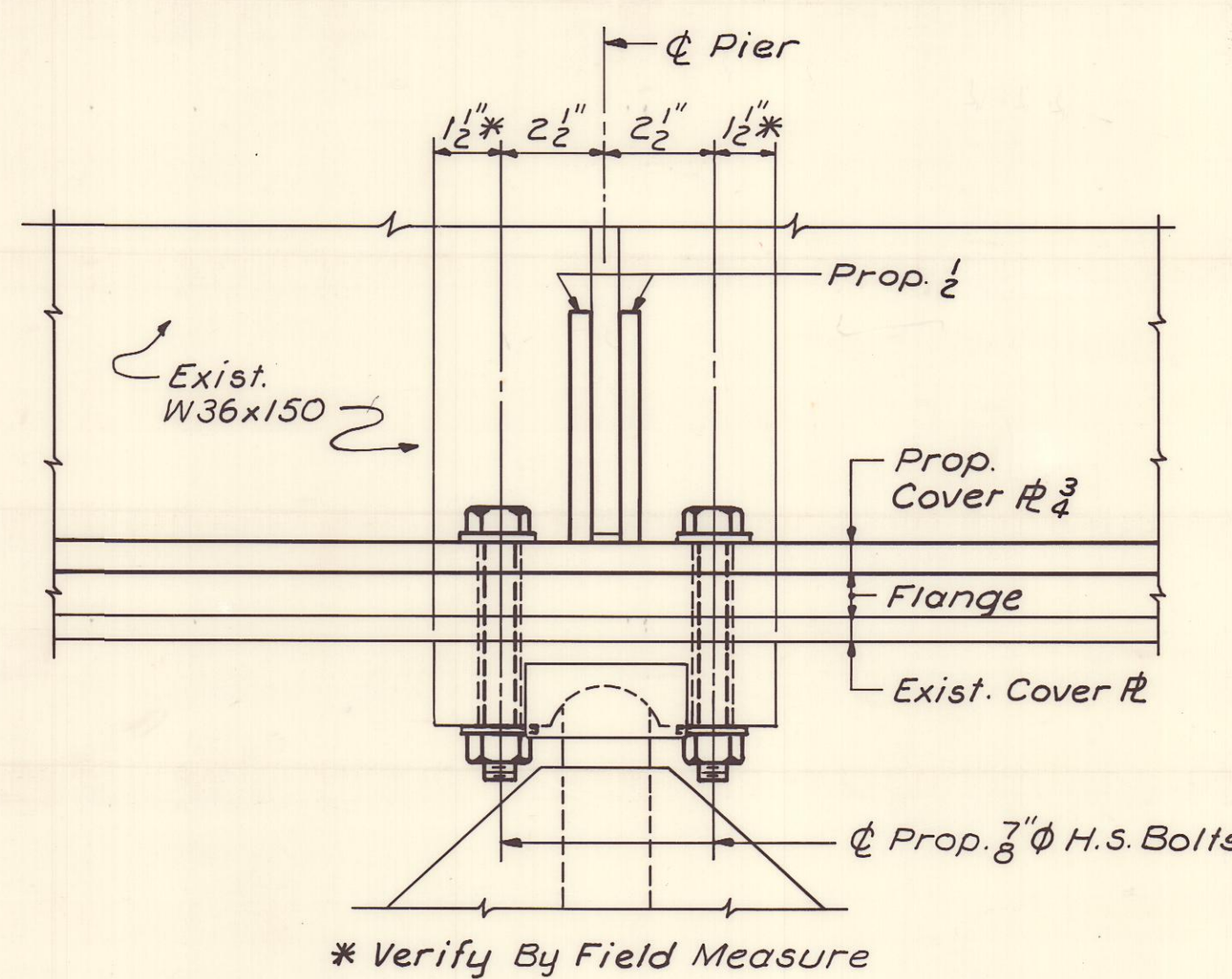
NOTES

1. All Proposed Plates To Conform To ASTM A709 Grade 36.
2. Proposed Cover Plates Shall Be Welded To Existing Beams After The Slab And Brackets Have Been Removed And Before The Forms Are In Place. The Contractors Attention Is Directed To The Need To Remove And Replace The Shielding.

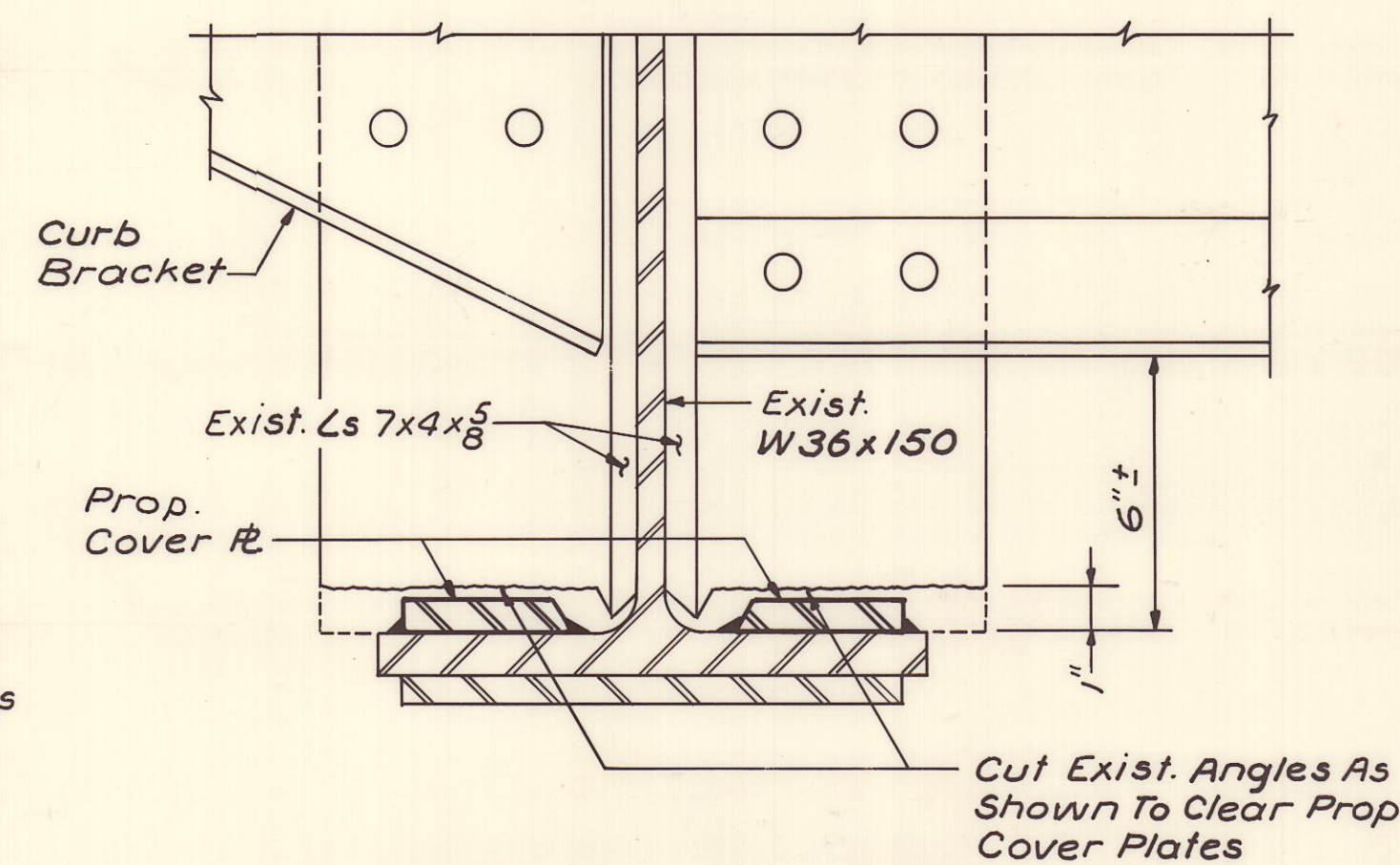


Note A
Provide 1/2" Plates As Shown On Each Side Of The Outstanding Leg Of All Bearing Stiffeners At The Piers. Grind To Fit L 7x4. Fillet Radius And Weld With 5/16" Fillet On Three Sides. Mill To Bear On 3/4" R At Bottom.

DETAIL AT PIER
3" = 1'-0"



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



DETAIL AT DIAPHRAGM AND CURB BRACKET
3" = 1'-0"

Maine Turnpike Authority
Maine Turnpike

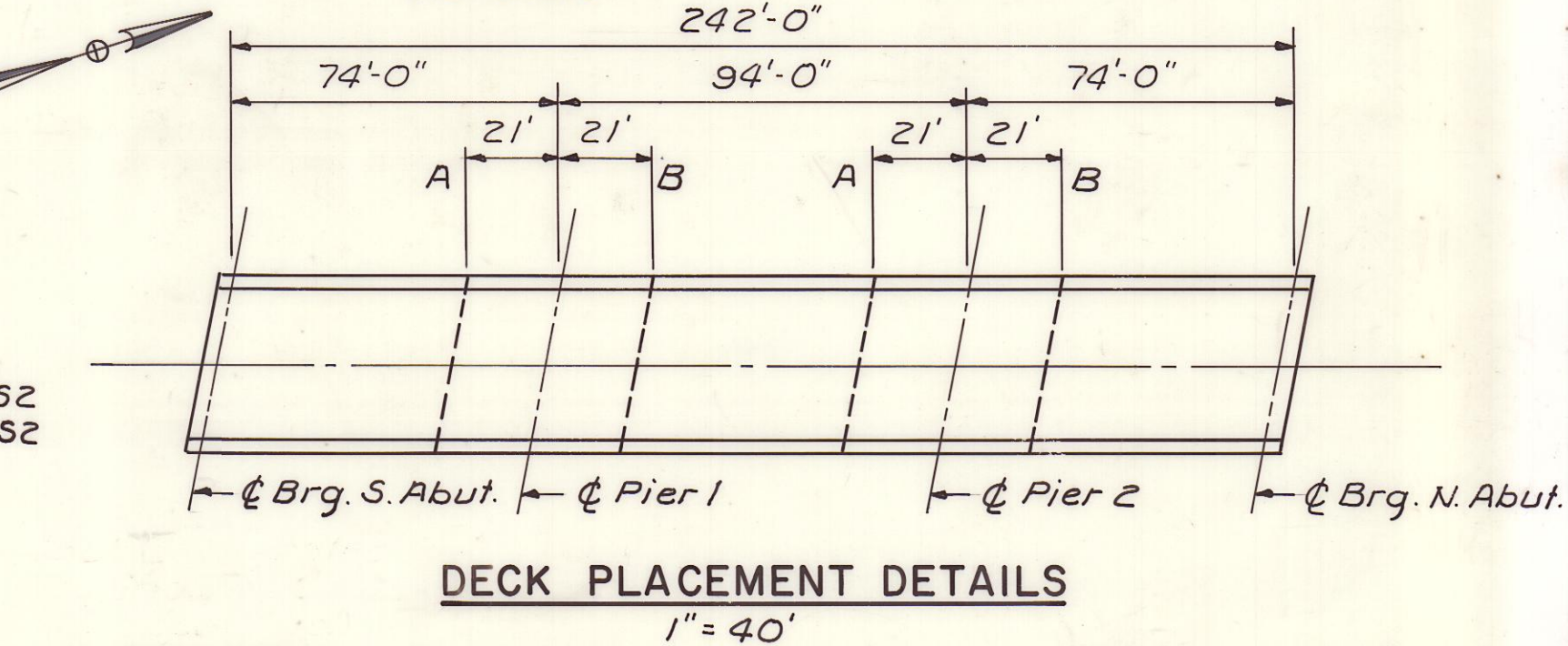
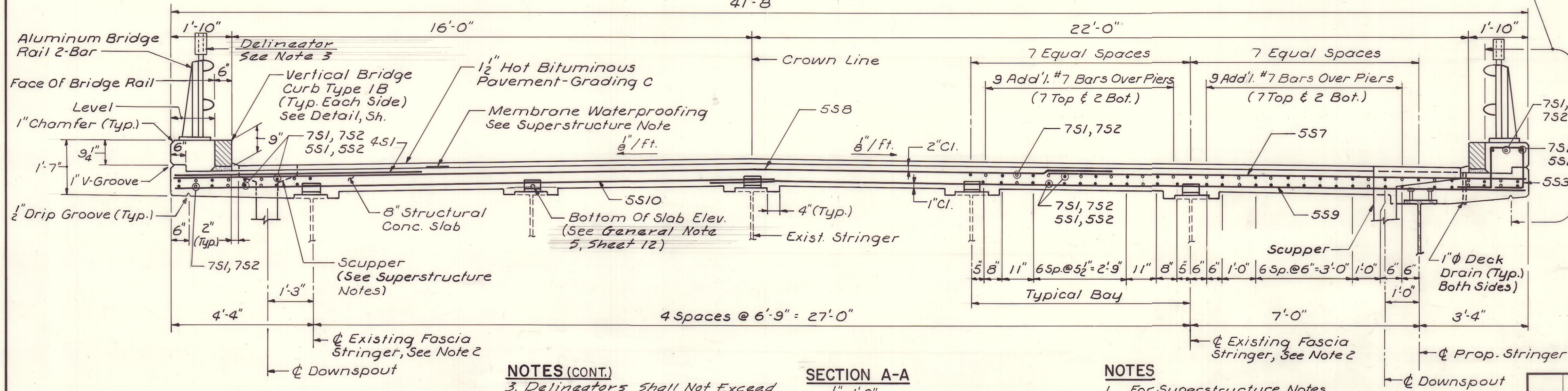
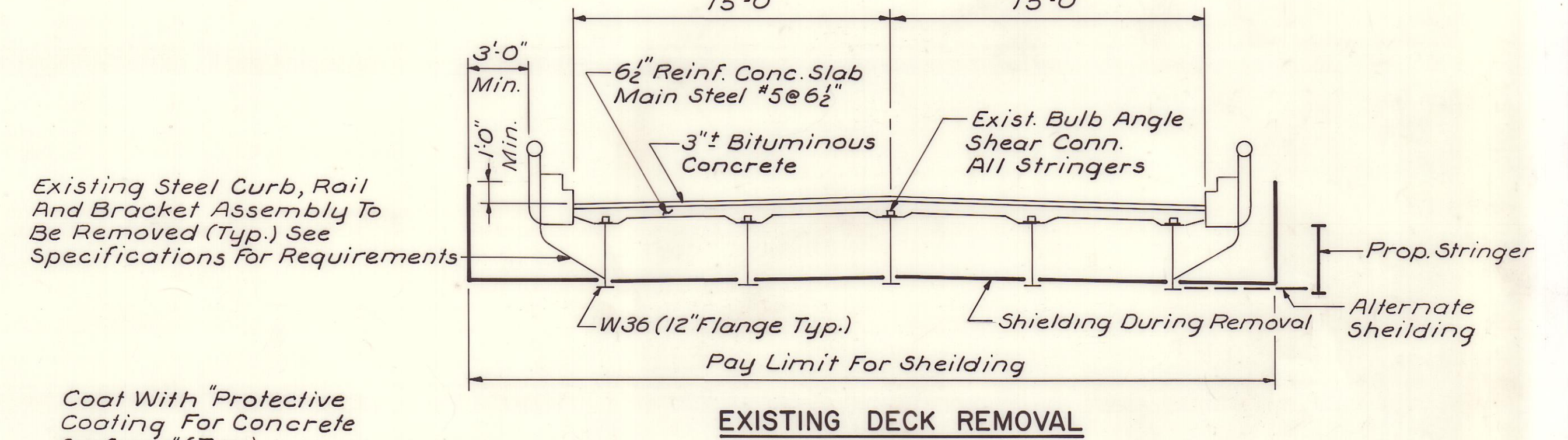
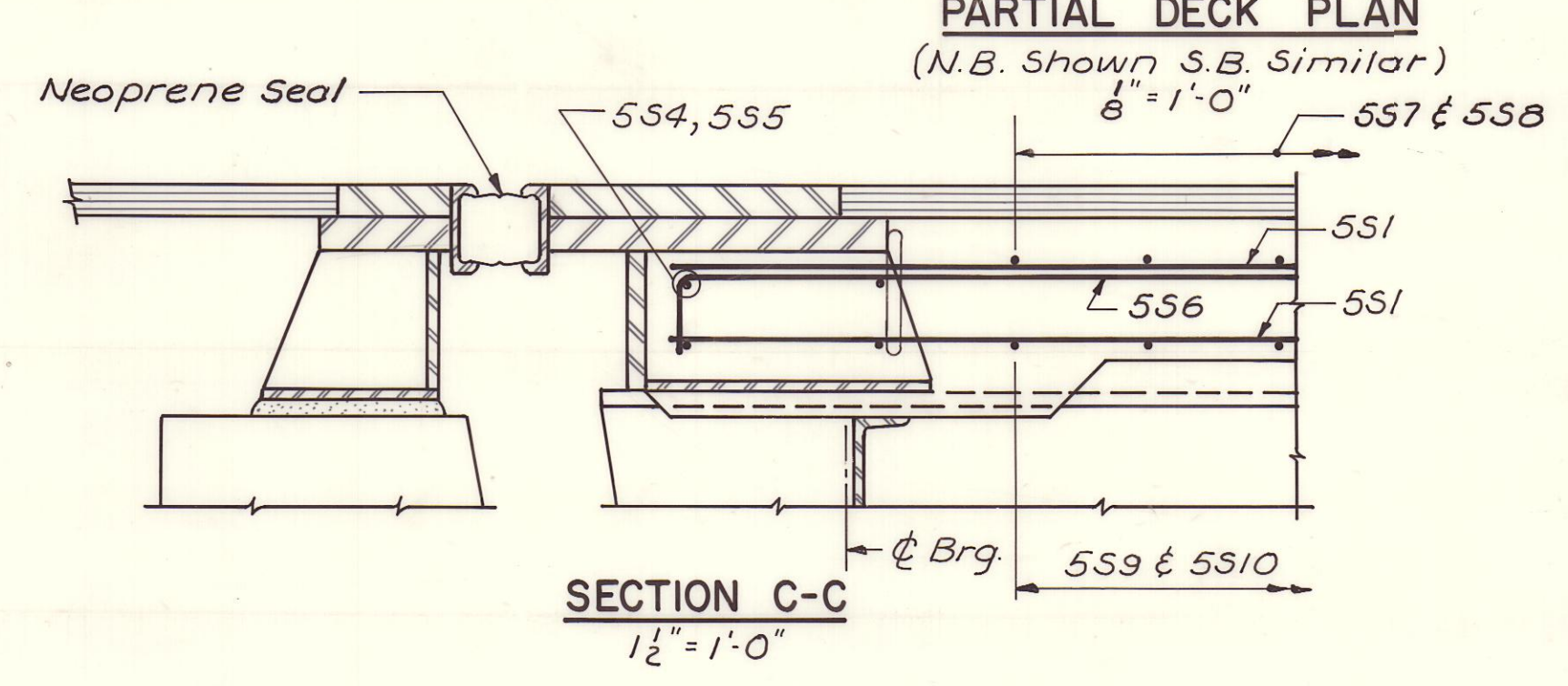
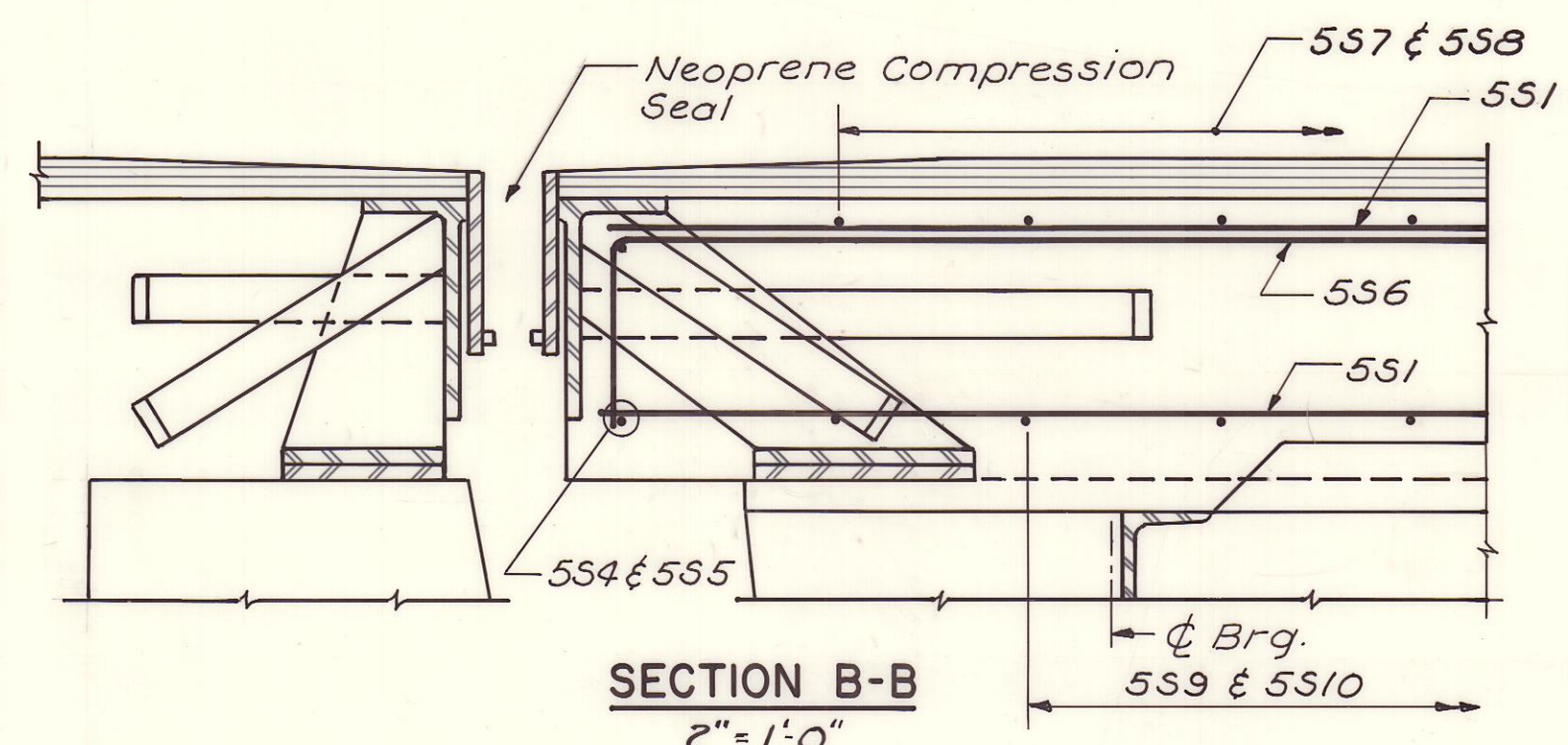
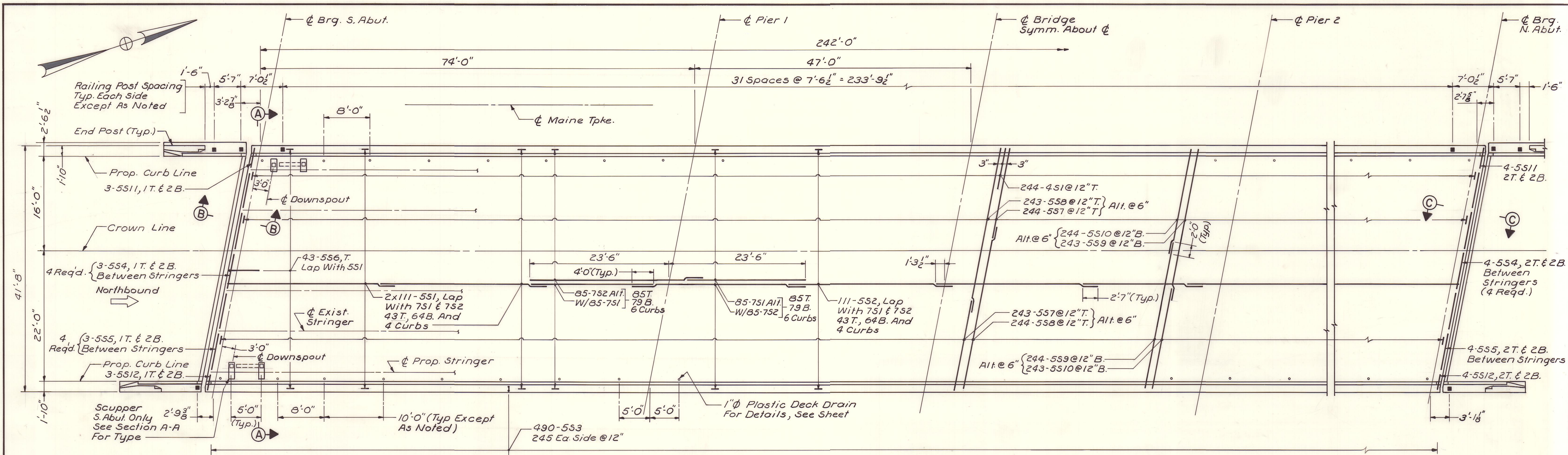
MAINE CENTRAL R.R.
STRUCTURAL STEEL DETAILS

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. 20 of 32

By: I.S.	Date: 11-91
Designed: I.S.	
Drawn: R.D.F.	11-91
Checked: R.J.R.	12-91
In charge of: R.A.L.	



NOTES (CONT.)
 3. Delineators shall not exceed a 60 foot spacing on the bridge. Delineators shall be a white reflective sheeting type II placed on both sides of the bridge. (Highway Item)

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

NOTES
 1. For Superstructure Notes, See Sheet 12.
 2. For Modifications To Existing Fascia Stringers, See Sheet 20.

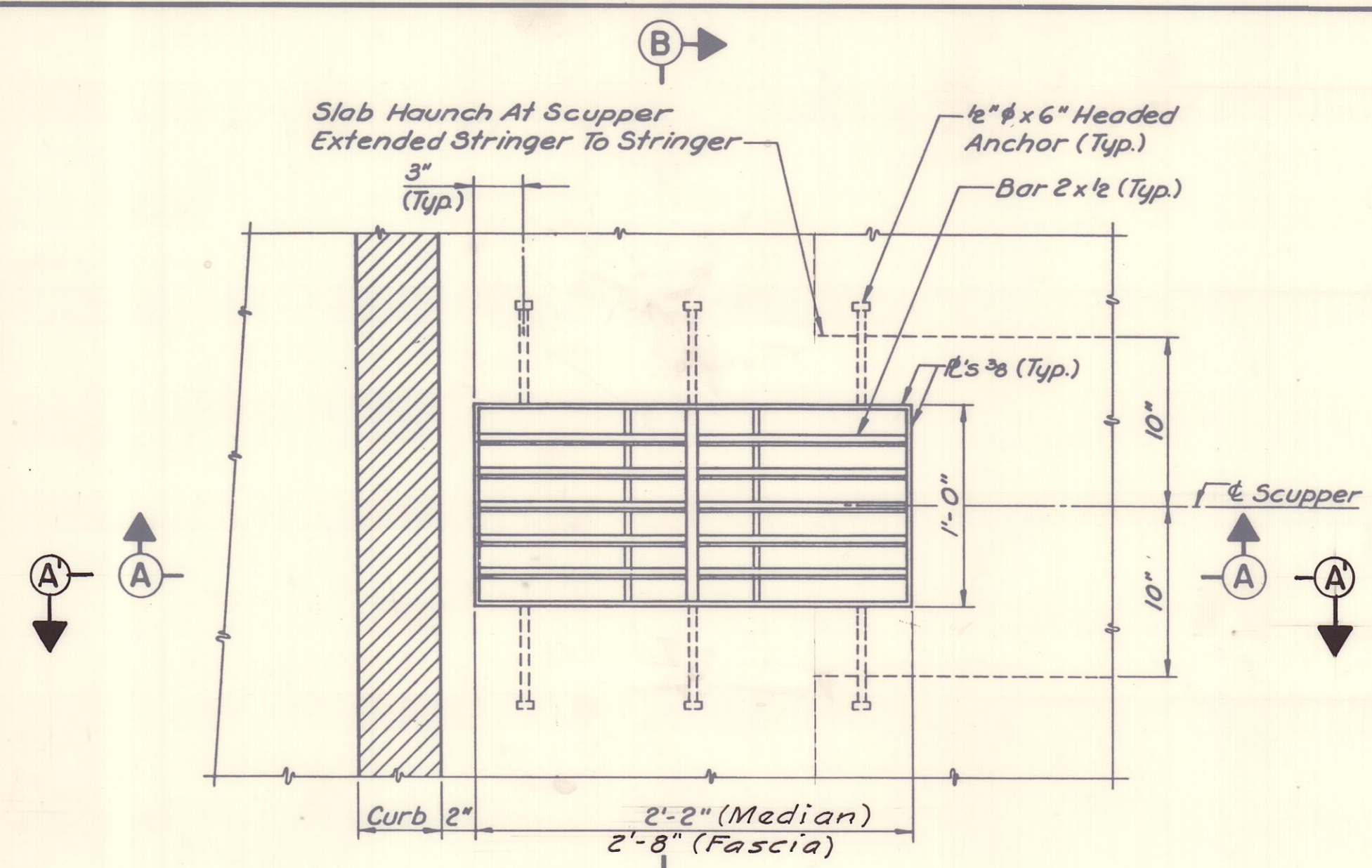
PLACEMENT NOTES
 A = Termination Points When Placement Starts At South Abut.
 B = Termination Points When Placement Starts At North Abut.

Maine Turnpike Authority
Maine Turnpike
 MAINE CENTRAL R.R.
 SUPERSTRUCTURE DETAILS

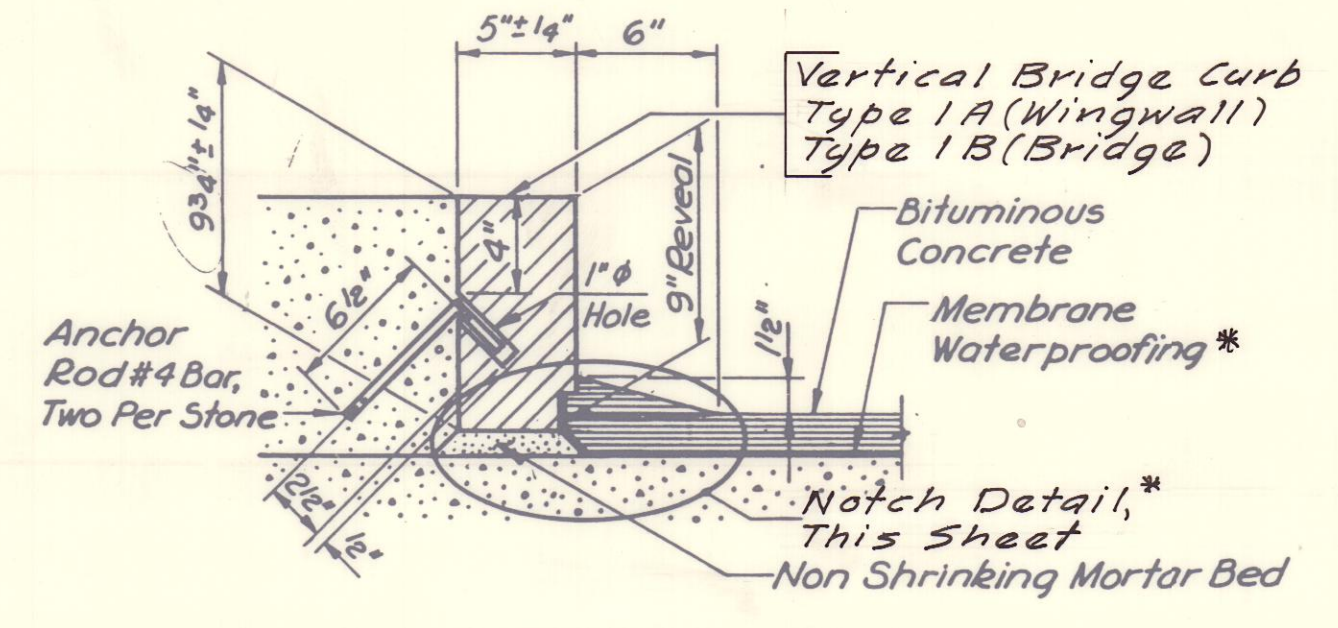
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9 Sheet No. 21 of 32

By: Date:	R.J.R. 11-91
Designed:	R.D.F. 11-91
Drawn:	R.A.L. 12-91
Checked:	R.A.L. 12-91
In charge of:	R.A.L.

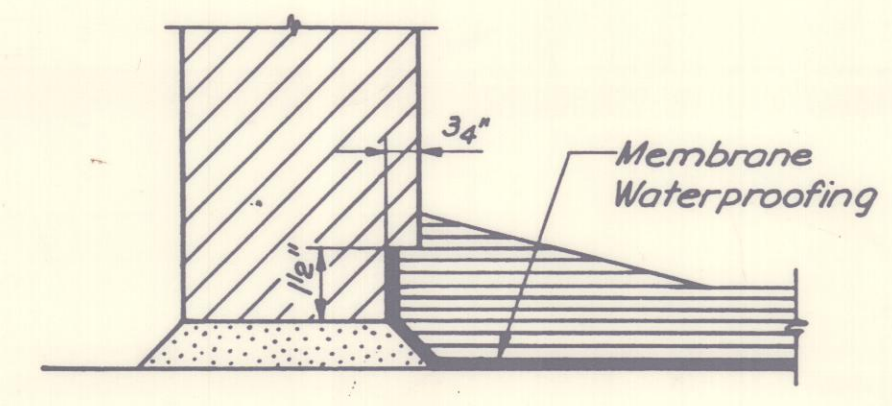


PLAN
(Median Scupper Shown, Fascia Scupper Similar.)

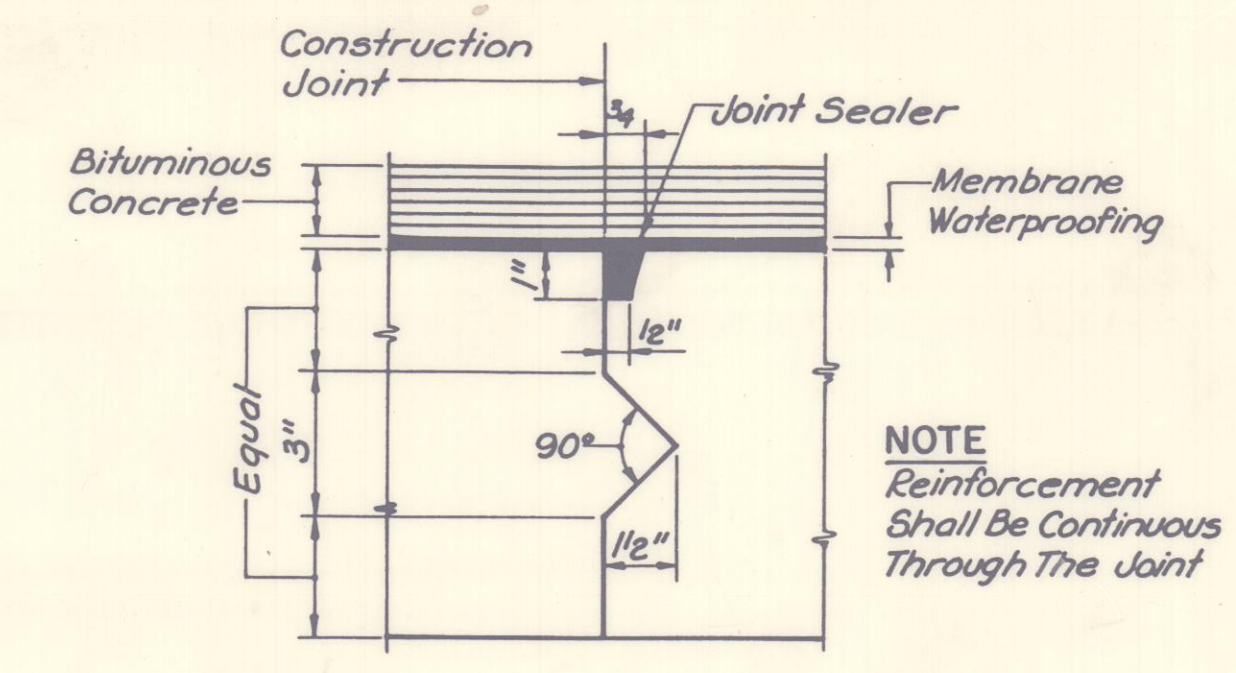


GRANITE CURB DETAIL
1 1/2" = 1'-0"

* Note
Membrane Waterproofing And Notch
Not Required At Wingwall (Curb Type 1A)

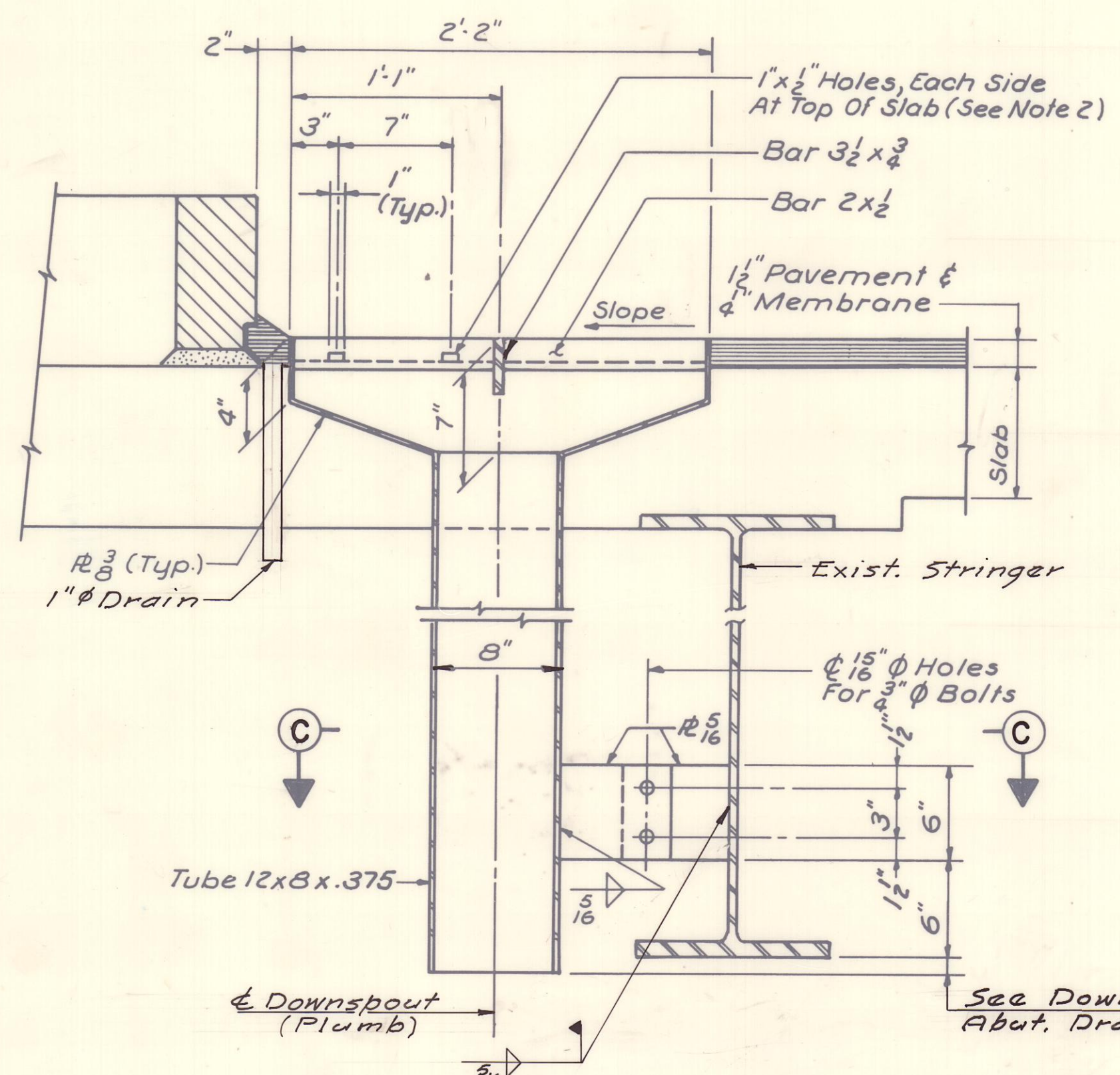


NOTCH DETAIL
(Curb Type 1B Only)
3/4" = 1'-0"

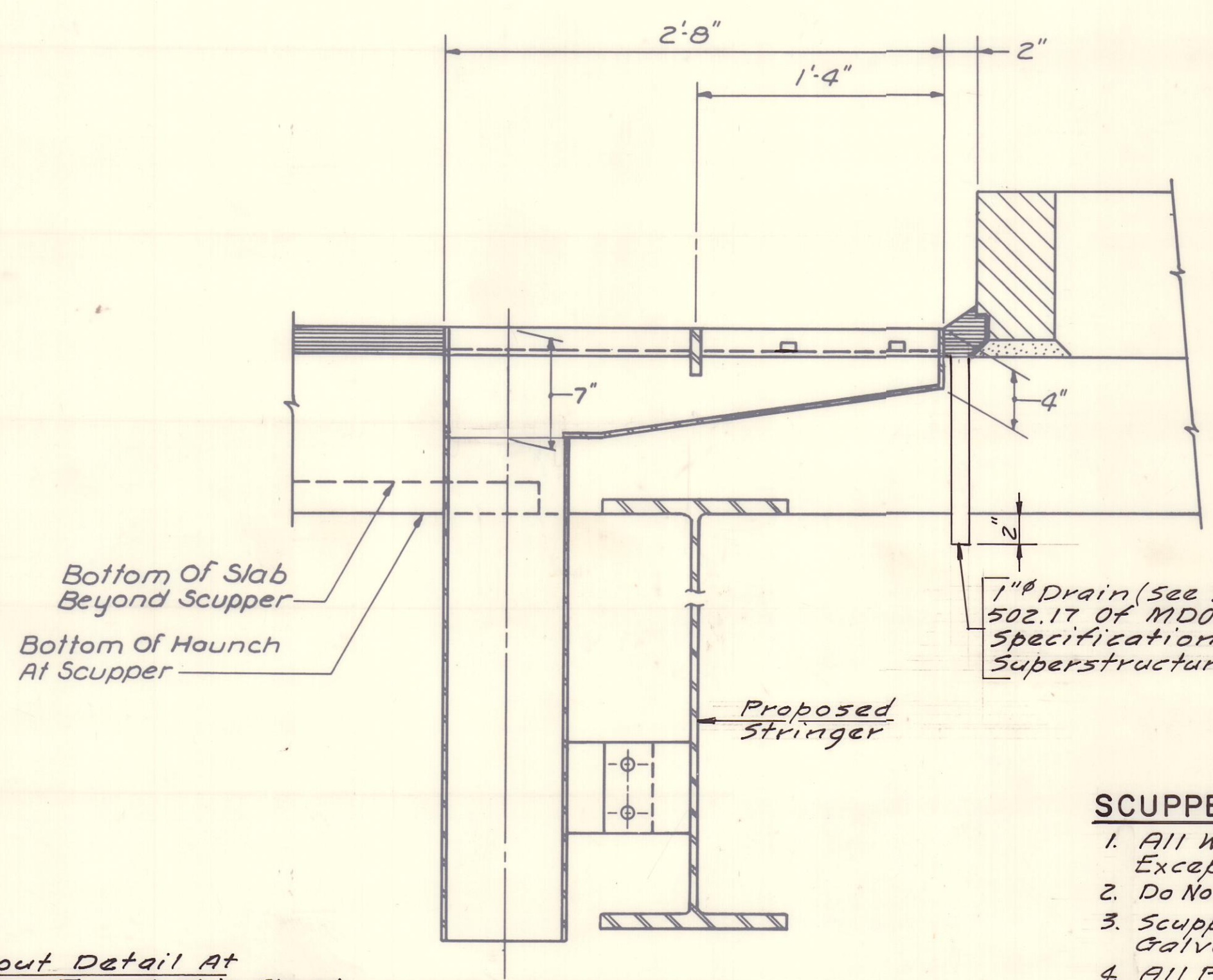


CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"

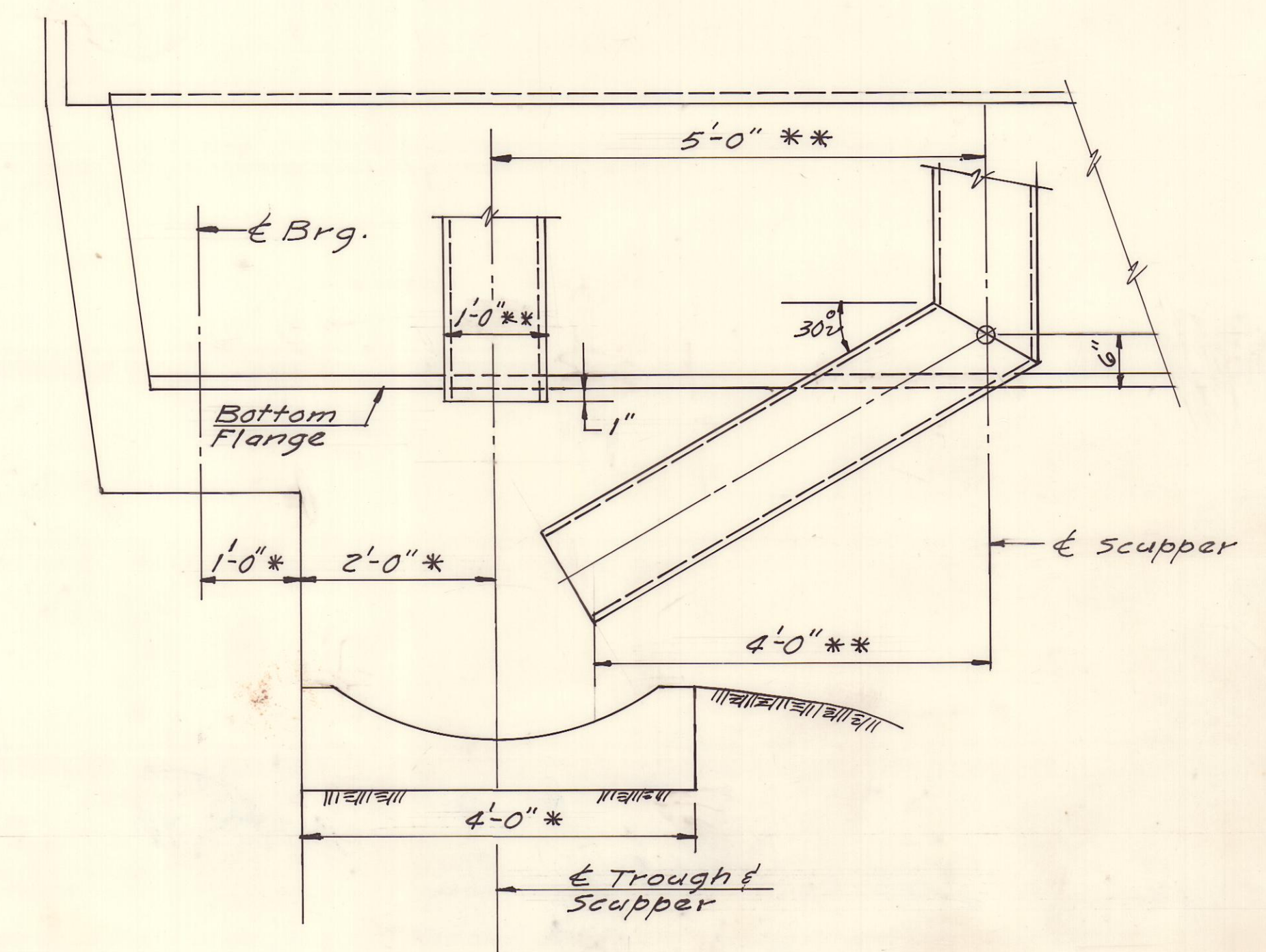
NOTE
Reinforcement
Shall Be Continuous
Through The Joint



SECTION A-A
(Median Scupper)



SECTION A-A
(Fascia Scupper)

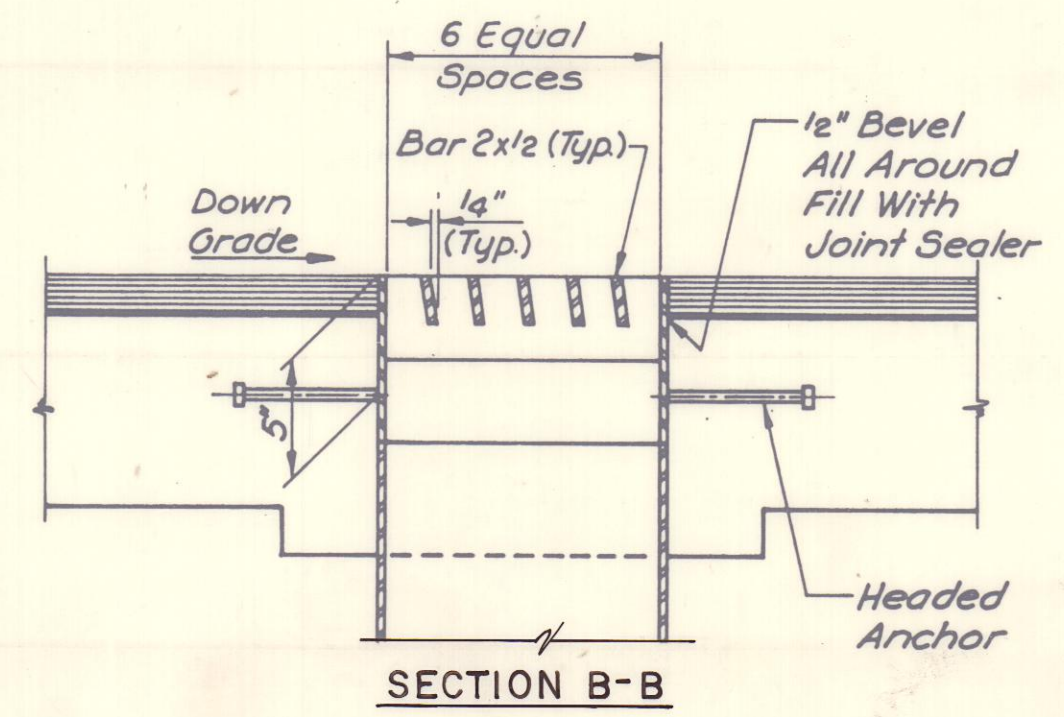
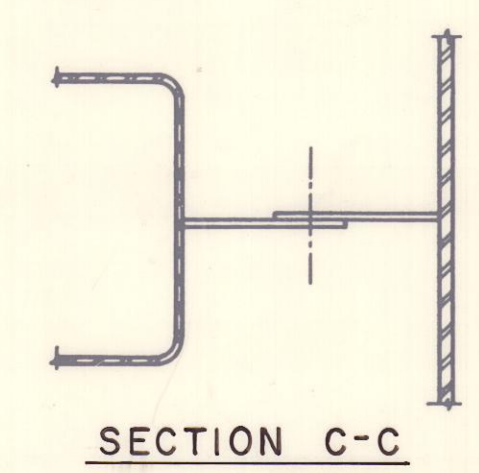


DOWNSPOUT DETAIL AT
ABUTMENT DRAINAGE TROUGH

** Measure Parallel To Curb
* Measure Normal To Face Of Abut.
3/4" = 1'-0"

SCUPPER NOTES

1. All Welds To Be Continuous 1/4" Fillet Welds Except As Noted.
2. Do Not Cover Holes With Membrane Waterproofing.
3. Scuppers To Be Galvanized After Fabrication. Galvanizing Shall Conform To A.S.T.M. A153.
4. All Plates Shall Conform To A.S.T.M. A709 Grade 36.
5. Structural Tubes Shall Conform To A.S.T.M. A501.
6. Payment For Scuppers Incidental To Contract Items.
7. For Location Of Scuppers And 1" Drains, See Superstructure Details, Sheet 21.



SECTION B-B

SCUPPER DETAILS
1 1/2" = 1'-0"

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Maine Turnpike

MAINE
MT
TURNPIKE

MAINE CENTRAL R.R.
MISCELLANEOUS DETAILS

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. 22 of 32

By:	Date:
Designed	S.H.R. 12-91
Drawn	R.D.F. 12-91
Checked	R.A.L. 12-91
In charge of:	R.A.L.

No.	Revision	By:	Date:

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
SOUTH ABUTMENT - SOUTHBOUND FOOTING										
6F1	6	14	3'-0"	Str.						Ftg. - Horz. Dowels
6F2	6	17	4'-10"	Str.						Ftg. - Trans.
6F3	6	7	14'-6" to 15'-6"	Str.					2"	Ftg. - Long.
* 6F4	6	28	4'-5"	118	3'-9"	8"				Ftg. - Vert. Dowels
* 6F5	6	3	3'-0"	Str.						Ftg. - Vert. Dowels

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS					INCR.	LOCATION AND REMARKS
					A	B	C	D	E		
SOUTH ABUTMENT - SOUTHBOUND STEM AND BACKWALL											
* 5A1	5	13	4'-7"	101	1'-1"	1'-9"					Wingwall - Curb Dowels
* 5A2	5	9	14'-11"	Str.							Wingwall - Curb
* 5A3	5	16	2'-11"	109	6"	1'-9"	5 1/2"	8"			Wingwall Curb - Haunch
* 5A4	5	13	5'-3"	101	1'-9"	1'-9"					Wingwall - Curb
* 5A5	5	3	4'-3" to 4'-10"	101	9" to 1'-4"	1'-9"			3 1/2"		Wingwall - Curb Dowels
* 5A6	5	3	4'-11" to 5'-6"	101	1'-5" to 2'-0"	1'-9"			3 1/2"		Wingwall - Curb Dowels
* 5A7	5	1	6'-8"	109	8"	4'-0"		2'-0"	4 1/2"		Top of Backwall
* 5A8	5	1	2'-9"	Str.							Top of Backwall
* 5A9	5	2	5'-0"	Str.							Top of Backwall
* 5A10	5	1	6'-9"	101	9"	3'-0"					Top of Backwall
* 6A1	6	5	6'-10"	119	3'-10"	3'-0"	1 1/2"				Abut. Stem - Vert.
* 6A2	6	20	3'-3"	Str.							Abut. Stem - Dowels
* 6A3	6	4	9'-0"	111	6'-0"	3'-0"	7"				Abut. Stem - Horz.
* 6A4	6	4	4'-9"	Str.							Abut. Stem - Horz.
* 6A5	6	3	8'-6"	Str.							Abut. Stem - Vert.
* 6A6	6	4	11'-11"	109	8"	4'-0"		7'-3"	1'-4 1/2"		Abut. Stem - Horz.
* 6A7	6	4	7'-0"	Str.							Abut. Stem - Horz.
* 6A8	6	5	5'-6"	Str.							Abut. Stem - Vert.
* 6A9	6	4	4'-6"	Str.							Abut. Stem - Vert.
* 6A10	6	4	6'-0"	118	4'-0"	2'-0"					Abut. Stem - Horz.
* 6A11	6	8	13'-6" to 14'-8"	Str.					2"		Wingwall Stem - Horz.
* 6A12	6	8	15'-0"	Str.							Wingwall Stem - Horz.
* 6A13	6	1	3'-10"	Str.							Abut. Stem - Vert.
* 6A14	6	32	8'-6"	Str.							Wingwall Stem - Vert.
* 6A15	6	2	14'-8"	Str.							Wingwall Stem - Horz.

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
SOUTH ABUTMENT - NORTHBOUND FOOTING										
6F1	6	13	3'-0"	Str.						Ftg. - Horz. Dowels
6F2	6	17	4'-10"	Str.						Ftg. - Trans.
6F3	6	7	15'-6" to 16'-6"	Str.					2"	Ftg. - Long.
* 6F4	6	31	4'-5"	118	3'-9"	8"				Ftg. - Vert. Dowels
* 6F5	6	3	3'-0"	Str.						Ftg. - Vert. Dowels



MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS					INCR.	LOCATION AND REMARKS
					A	B	C	D	E		
SOUTH ABUTMENT-NORTHBOUND STEM AND BACKWALL											
* 5A1	5	13	4'-7"	101	1'-1"	1'-9"					Wingwall - Curb Dowels
* 5A2	5	9	14'-11"	Str.							Wingwall - Curb
* 5A3	5	16	2'-11"	109	6"	1'-9"	5 1/2"	8"			Wingwall - Curb Haunch
* 5A4	5	13	5'-3"	101	1'-9"	1'-9"					Wingwall - Curb
* 5A5	5	3	4'-3" to 4'-10"	101	9" to 1'-4"	1'-9"			3 1/2"		Wingwall-Curb Dowels
* 5A6	5	3	4'-11" to 5'-6"	101	1'-5" to 2'-0"	1'-9"			3 1/2"		Wingwall-Curb Dowels
* 5A7	5	1	5'-9"	119	2'-9"	3'-0"	7"				Top of Backwall
* 5A8	5	1	2'-9"	Str.							Top of Backwall
* 5A9	5	2	5'-3"	Str.							Top of Backwall
* 5A10	5	1	5'-10"	109	10"	3'-0"	4 1/2"	2'-0"			Top of Backwall
* 6A1	6	5	6'-10"	119	3'-10"	3'-0"	1 1/2"				Abut. Stem - Vert.
* 6A2	6	20	3'-3"	Str.							Abut. Stem - Dowels
* 6A3	6	4	8'-3"	119	5'-3"	3'-0"	7"				Abut. Stem - Horz.
* 6A4	6	4	5'-0"	Str.							Abut. Stem - Horz.
* 6A5	6	3	8'-6"	Str.							Abut. Stem - Vert.
* 6A6	6	4	10'-3"	119	7'-7"	3'-0"	7"				Abut. Stem - Horz.
* 6A7	6	4	7'-0"	Str.							Abut. Stem - Horz.
* 6A8	6	4	5'-6"	Str.							Abut. Stem - Vert.
* 6A9	6	4	4'-6"	Str.							Abut. Stem - Vert.
* 6A10	6	4	6'-0"	118	4'-0"	2'-0"					Wingwall Stem - Horz.
* 6A11	6	8	13'-6" to 14'-8"	Str.					2"		Wingwall Stem - Horz.
* 6A12	6	8	14'-6"	Str.							Wingwall Stem - Horz.
* 6A13	6	1	3'-10"	Str.							Abut. Stem - Vert.
* 6A14	6	32	8'-6"	Str.							Wingwall Stem - Vert.
* 6A15	6	2	14'-8"	Str.							Wingwall Stem - Horz.

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REINFORCING NOTES

- * - Denotes Reinforcing Steel To Be Epoxy Coated.
- For End Post Reinforcing Layout, See Standard Detail Sheet BD 201-89.

				By	Date
				Designed	IS 1/92
				Drawn	BDH 1/92
				Checked	RAL 1/92
No.	Revision	By	Date	In Charge	Of: RAL

Maine Turnpike Authority Maine Turnpike	
	MAINE CENTRAL R.R. REINFORCING SCHEDULE I
 HOWARD NEEDLES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 92.9	Sheet No. 23 of 32

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
NORTH ABUTMENT - SOUTHBOUND FOOTING										
6F1	6	13	3'-0"	Str.						Ftg. - Horz. Dowels
6F2	6	17	4'-10"	Str.						Ftg. - Trans.
6F3	6	7	15'-6" to 16'-6"	Str.					2"	Ftg. - Long.
* 6F4	6	31	4'-5"	118	3'-9"	8"				Ftg. - Vert. Dowels
* 6F5	6	3	3'-0"	Str.						Ftg. - Vert. Dowels


MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS					INCR.	LOCATION AND REMARKS
					A	B	C	D	E		
NORTH ABUTMENT - NORTHBOUND FOOTING											
6F1	6	14	3'-0"	Str.							Ftg. - Horz. Dowels
6F2	6	17	4'-10"	Str.							Ftg. - Trans.
6F3	6	7	14'-6" to 15'-6"	Str.						2"	Ftg. - Long.
* 6F4	6	28	4'-5"	118	3'-9"	8"					Ftg. - Vert. Dowels
* 6F5	6	3	3'-0"	Str.							Ftg. - Vert. Dowels

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
NORTH ABUTMENT - SOUTHBOUND STEM AND BACKWALL										
* 5A1	5	13	4'-7"	101	1'-1"	1'-9"				Wingwall - Curb Dowels
* 5A2	5	9	14'-11"	Str.						Wingwall - Curb
* 5A3	5	16	2'-11"	109	6"	1'-9"	5 1/2"	8"		Wingwall - Curb - Haunch
* 5A4	5	13	5'-3"	101	1'-9"	1'-9"				Wingwall - Curb
* 5A5	5	3	4'-3" to 4'-10"	101	9" to 1'-4"	1'-9"			3 1/2"	Wingwall-Curb Dowels
* 5A6	5	3	4'-11" to 5'-6"	101	1'-5" to 2'-0"	1'-9"			3 1/2"	Wingwall-Curb Dowels
* 5A7	5	1	5'-9"	119	2'-9"	3'-0"	7"			Top of Backwall
* 5A8	5	1	2'-9"	Str.						Top of Backwall
* 5A9	5	2	5'-3"	Str.						Top of Backwall
* 5A10	5	1	5'-10"	109	10"	3'-0"	4 1/2"	2'-0"		Top of Backwall
* 6A1	6	5	6'-10"	119	3'-10"	3'-0"	1 1/2"			Abut. Stem - Vert.
* 6A2	6	20	3'-3"	Str.						Abut. Stem - Dowels
* 6A3	6	4	8'-3"	119	5'-3"	3'-0"	7"			Abut. Stem - Horz.
* 6A4	6	4	5'-0"	Str.						Abut. Stem - Horz.
* 6A5	6	3	8'-6"	Str.						Abut. Stem - Vert.
* 6A6	6	4	10'-3"	119	7'-7"	3'-0"	7"			Abut. Stem - Horz.
* 6A7	6	4	7'-0"	Str.						Abut. Stem - Horz.
* 6A8	6	4	5'-6"	Str.						Abut. Stem - Vert.
* 6A9	6	4	4'-6"	Str.						Abut. Stem - Vert.
* 6A10	6	4	6'-0"	118	4'-0"	2'-0"				Wingwall Stem - Horz.
* 6A11	6	8	13'-6" to 14'-8"	Str.					2"	Wingwall Stem - Horz.
* 6A12	6	8	14'-6"	Str.						Wingwall Stem - Horz.
* 6A13	6	1	3'-10"	Str.						Abut. Stem - Vert.
* 6A14	6	32	8'-6"	Str.						Wingwall Stem - Vert.
* 6A15	6	2	14'-8"	Str.						Wingwall Stem - Horz.

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS					INCR.	LOCATION AND REMARKS
					A	B	C	D	E		
NORTH ABUTMENT - NORTHBOUND STEM AND BACKWALL											
* 5A1	5	13	4'-7"	101	1'-1"	1'-9"					Wingwall - Curb Dowels
* 5A2	5	9	14'-11"	Str.							Wingwall - Curb
* 5A3	5	16	2'-11"	109	6"	1'-9"	5 1/2"	8"			Wingwall - Curb - Haunch
* 5A4	5	13	5'-3"	101	1'-9"	1'-9"					Wingwall - Curb
* 5A5	5	3	4'-3" to 4'-10"	101	9" to 1'-4"	1'-9"			3 1/2"		Wingwall - Curb Dowels
* 5A6	5	3	4'-11" to 5'-6"	101	1'-5" to 2'-0"	1'-9"			3 1/2"		Wingwall - Curb Dowels
* 5A7	5	1	5'-9"	109	8"	4'-0"		2'-0"	4 1/2"		Top of Backwall
* 5A8	5	1	2'-9"	Str.							Top of Backwall
* 5A9	5	2	5'-0"	Str.							Top of Backwall
* 5A10	5	1	6'-9"	101	9"	3'-0"					Top of Backwall
* 6A1	6	5	6'-10"	119	3'-10"	3'-0"	1 1/2"				Abut. Stem - Vert.
* 6A2	6	20	3'-3"	Str.							Abut. Stem - Dowels
* 6A3	6	4	9'-0"	111	6'-0"	3'-0"	7"				Abut. Stem - Horz.
* 6A4	6	4	4'-9"	Str.							Abut. Stem - Horz.
* 6A5	6	3	8'-6"	Str.							Abut. Stem - Vert.
* 6A6	6	4	11'-11"	109	8"	4'-0"		7'-3"	1'-4 1/2"		Abut. Stem - Horz.
* 6A7	6	4	7'-0"	Str.							Abut. Stem - Horz.
* 6A8	6	5	5'-6"	Str.							Abut. Stem - Vert.
* 6A9	6	4	4'-6"	Str.							Abut. Stem - Vert.
* 6A10	6	4	6'-0"	118	4'-0"	2'-0"					Abut. Stem - Horz.
* 6A11	6	8	13'-6" to 14'-8"	Str.					2"		Wingwall Stem - Horz.
* 6A12	6	8	15'-0"	Str.							Wingwall Stem - Horz.
* 6A13	6	1	3'-10"	Str.							Abut. Stem - Vert.
* 6A14	6	32	8'-6"	Str.							Wingwall Stem - Vert.
* 6A15	6	2	14'-8"	Str.							Wingwall Stem - Horz.

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
END POSTS (SEE NOTE 2)										
*EP400	4	48	2'-0"	Str.						Vert.
*EP401	4	32	4'-11"	102	11"	2'-0"	2'-0"			Vert.
*EP402	4	16	4'-6"	102	6"	2'-0"	2'-0"			Vert.
*EP405	4	48	2'-0"	Str.						Vert. Dowels
*EP500	5	32	7'-10"	102	7"	1'-9"	5'-6"			Horz.
*EP501	5	32	6'-8"	109	2'-7"	1'-0"	3'-0 1/8"	3'-1"		Horz.
*EP502	5	32	5'-3"	102	11"	2'-2"	2'-2"			Vert. Dowels
*EP503	5	16	4'-10"	102	6"	2'-2"	2'-2"			Vert. Dowels

Maine Turnpike Authority
Maine Turnpike



MAINE CENTRAL R.R.
REINFORCING SCHEDULE II

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

By	IS	1/92	Designed	
By	BDH	1/92	Drawn	
By	RAL	1/92	Checked	
No.	Revision	By	Date	In Charge Of: RAL

Contract 92.9

Sheet No. 24 of 32

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 1 - SOUTHBOUND FOOTING										
6PF1	6	18	5'-9"	107	1'-0"		4'-9"			Ftg. Dowel
9PF1	9	21	10'-6"	Str.						Ftg. Bot.
9PF2	9	15	10'-0"	Str.						Ftg. Bot.
9PF3	9	15	4'-2"	Str.						Ftg. Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 1 - SOUTHBOUND STEM AND CAP										
6P1	6	30	2'-4" to 5'-3"	Str.					2 1/2"	Horz. Stem Dowels
6P2	6	4	6'-5"	104	4'-2"	2'-3"	1'-6"			Cap Bot.
6P3	6	10	3'-4"	Str.						Stem Dowels
6P4	6	2	15'-9"	Str.						Vert. Stem
6P5	6	4	16'-0"	Str.						Vert. Stem
6P6	6	4	13'-0"	Str.						Vert. Stem
6P7	6	2	11'-0"	Str.						Vert. Stem
6P8	6	30	4'-8"	101	2'-4"	1'-2"				Horz. Stem
6P9	6	38	2'-10"	Str.						Horz. Stem Dowels
6P10	6	14	9'-8"	101	2'-8"	3'-6"				Stirrup
6P11	6	24	14'-8"	Str.						Vert. Stem
6P12	6	30	8'-4" to 11'-3"	Str.					2 1/2"	Horz. Stem
6P13	6	22	3'-8"	Str.						Vert. Stem
6P14	6	4	16'-3"	116	11'-3"	2'-6"	1'-6"	2'-6"		Pier Cap Bot.
6P15	6	2	10'-0"	Str.						Pier Cap
6P16	6	4	6'-10"	Str.						Pier Cap
6P17	6	3	5'-8"	101	2'-8"	1'-6"				Pier Cap End
6P18	6	6	9'-3"	111	6'-9"	2'-6"	7"			Pier Cap Top
6P19										Not Issued
6P20	6	16	4'-0"	107		2'-3"	1'-9"			Pier Cap
6P21	6	4	6'-0"	Str.						Pier Cap
7P1	7	10	7'-0"	104	4'-6"	2'-6"	8"			Pier Cap Top Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 1 - NORTHBOUND FOOTING										
6PF1	6	18	5'-9"	107	1'-0"		4'-9"			Ftg. Dowel
9PF1	9	21	10'-6"	Str.						Ftg. Bot.
9PF2	9	15	10'-0"	Str.						Ftg. Bot.
9PF3	9	15	4'-2"	Str.						Ftg. Dowel


MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 1 - NORTHBOUND STEM AND CAP										
6P1	6	30	2'-4" to 5'-3"	Str.					2 1/2"	Horz. Stem Dowels
6P2	6	4	6'-5"	104	4'-2"	2'-3"	1'-6"			Cap Bot.
6P3	6	10	3'-4"	Str.						Stem Dowels
6P4	6	2	15'-4"	Str.						Vert. Stem
6P5	6	4	15'-6"	Str.						Vert. Stem
6P6	6	4	13'-0"	Str.						Vert. Stem
6P7	6	2	11'-0"	Str.						Vert. Stem
6P8	6	30	4'-8"	101	2'-4"	1'-2"				Horz. Stem
6P9	6	38	2'-10"	Str.						Horz. Stem Dowels
6P10	6	14	9'-8"	101	2'-8"	3'-6"				Stirrup
6P11	6	24	14'-4"	Str.						Vert. Stem
6P12	6	30	8'-4" to 11'-3"	Str.					2 1/2"	Horz. Stem
6P13	6	22	3'-8"	Str.						Vert. Stem
6P14	6	4	16'-3"	116	11'-3"	2'-6"	1'-6"	2'-6"		Pier Cap Bot.
6P15	6	2	10'-0"	Str.						Pier Cap
6P16	6	4	6'-10"	Str.						Pier Cap
6P17	6	3	5'-8"	101	2'-8"	1'-6"				Pier Cap End
6P18	6	6	9'-3"	111	6'-9"	2'-6"	7"			Pier Cap Top
6P19										Not Issued
6P20	6	16	4'-0"	107		2'-3"	1'-9"			Pier Cap
6P21	6	4	6'-0"	Str.						Pier Cap
7P1	7	10	7'-0"	104	4'-6"	2'-6"	8"			Pier Cap Top Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 2 - SOUTHBOUND FOOTING										
6PF1	6	18	5'-9"	107	1'-0"		4'-9"			Ftg. Dowel
9PF1	9	21	10'-6"	Str.						Ftg. Bot.
9PF2	9	15	10'-0"	Str.						Ftg. Bot.
9PF3	9	15	4'-2"	Str.						Ftg. Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 2 - SOUTHBOUND STEM AND CAP										
6P1	6	32	2'-4" to 5'-3 1/2"	Str.					2 3/8"	Horz. Stem Dowels
6P2	6	4	6'-5"	104	4'-2"	2'-3"	1'-6"			Horz. Cap
6P3	6	10	3'-4"	Str.						Vert. Stem Dowel
6P4	6	2	15'-10"	Str.						Vert. Stem
6P5	6	4	16'-4"	Str.						Vert. Stem
6P6	6	4	13'-0"	Str.						Vert. Stem
6P7	6	2	11'-0"	Str.						Vert. Stem
6P8	6	32	4'-8"	101	2'-4"	1'-2"				Horz. Stem
6P9	6	40	2'-10"	Str.						Horz. Stem Dowel
6P10	6	14	9'-8"	101	2'-8"	3'-6"				Stirrup
6P11	6	24	15'-2"	Str.						Vert. Stem
6P12	6	32	8'-4" to 11'-4"	Str.					2 3/8"	Horz. Stem
6P13	6	22	3'-8"	Str.						Vert. Stem
6P14	6	4	16'-3"	116	11'-3"	2'-6"	1'-6"	2'-6"		Pier Cap B
6P15	6	2	10'-0"	Str.						Pier Cap
6P16	6	4	6'-10"	Str.						Pier Cap
6P17	6	3	5'-8"	101	2'-8"	1'-6"				Pier Cap Ends
6P18	6	6	9'-3"	111	6'-9"	2'-6"	7"			Pier Cap Top
6P19										Not Issued
6P20	6	16	4'-0"	107		2'-3"	1'-9"			Pier Cap
6P21	6	4	6'-0"	Str.						Pier Cap
7P1	7	10	7'-0"	104	4'-6"	2'-6"	8"			Pier Cap Top Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 2 - NORTHBOUND FOOTING										
6PF1	6	18	5'-9"	107	1'-0"		4'-9"			Ftg. Dowel
9PF1	9	21	10'-6"	Str.						Ftg. Bot.
9PF2	9	15	10'-0"	Str.						Ftg. Bot.
9PF3	9	15	4'-2"	Str.						Ftg. Dowel

Maine Turnpike Authority
Maine Turnpike



MAINE CENTRAL R.R.
REINFORCING SCHEDULE III

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

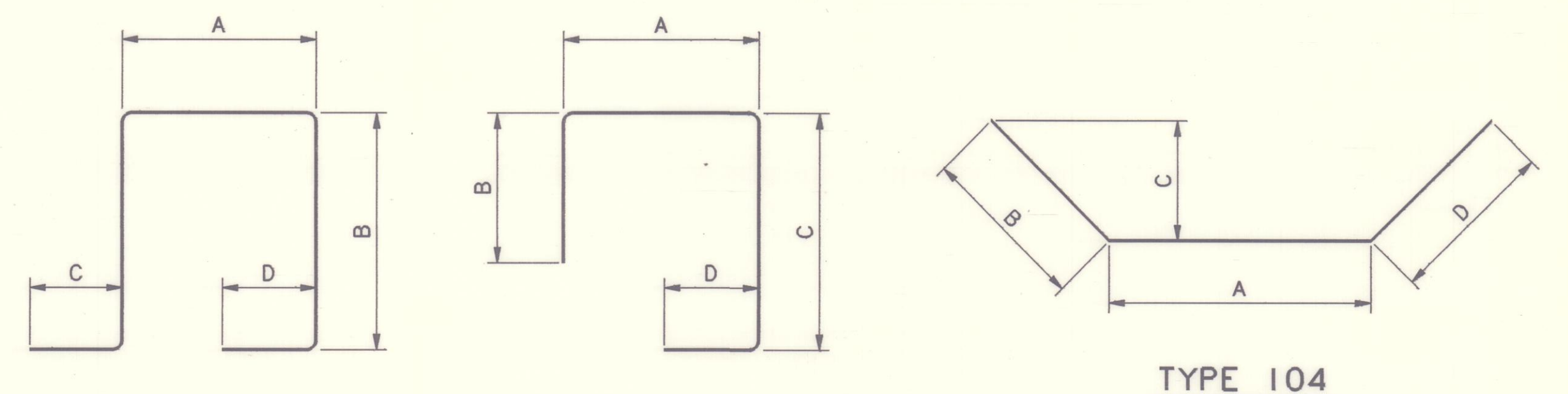
	By Date
Designed	IS 1/92
Drawn	BDH 1/92
Checked	RAL 1/92
No. Revision	By Date In Charge Of: RAL

Contract 92.9 Sheet No. 25 of 32

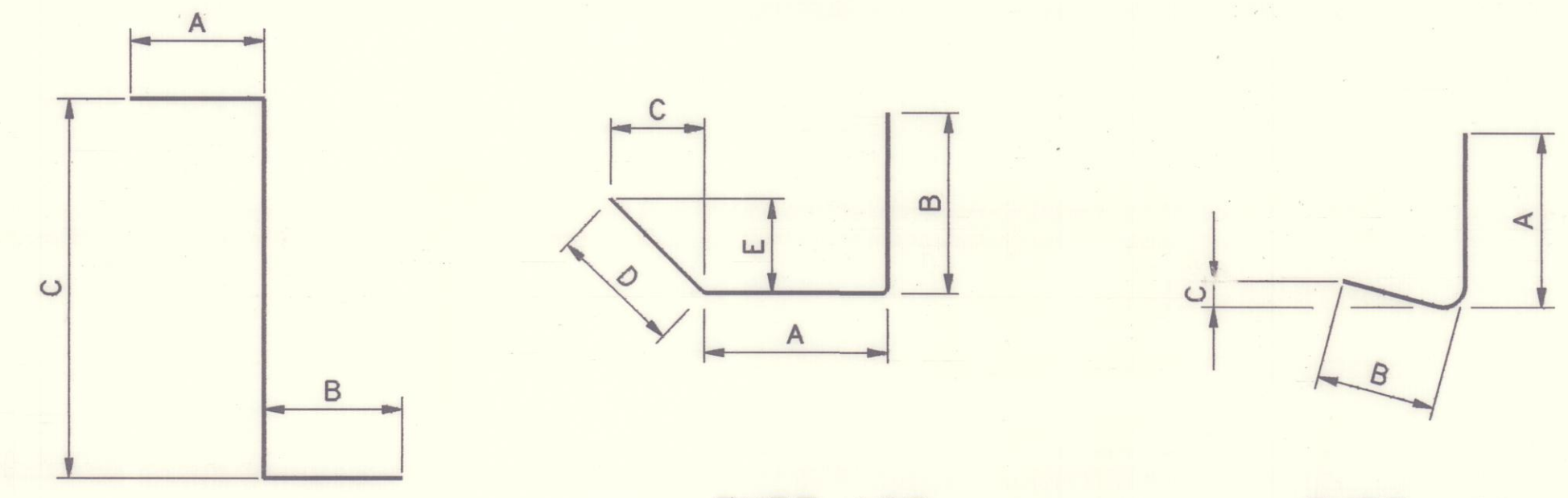
MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
PIER 2 - NORTHBOUND STEM AND CAP										
6P1	6	32	2'-4" to 5'-3 1/2"	Str.					2 3/8"	Horz. Stem Dowels
6P2	6	4	6'-5"	104	4'-2"	2'-3"	1'-6"			Horz. Cap
6P3	6	10	3'-4"	Str.						Vert. Stem Dowel
6P4	6	2	16'-1"	Str.						Vert. Stem
6P5	6	4	16'-8"	Str.						Vert. Stem
6P6	6	4	13'-0"	Str.						Vert. Stem
6P7	6	2	11'-0"	Str.						Vert. Stem
6P8	6	32	4'-8"	101	2'-4"	1'-2"				Horz. Stem
6P9	6	40	2'-10"	Str.						Horz. Stem Dowel
6P10	6	14	9'-8"	101	2'-8"	3'-6"				Stirrup
6P11	6	24	14'-10"	Str.						Vert. Stem
6P12	6	32	8'-4" to 11'-4"	Str.					2 3/8"	Horz. Stem
6P13	6	22	3'-8"	Str.						Vert. Stem
6P14	6	4	16'-3"	116	11'-3"	2'-6"	1'-6"	2'-6"		Pier Cap B
6P15	6	2	10'-0"	Str.						Pier Cap
6P16	6	4	6'-10"	Str.						Pier Cap
6P17	6	3	5'-8"	101	2'-8"	1'-6"				Pier Cap Ends
6P18	6	6	9'-3"	111	6'-9"	2'-6"	7"			Pier Cap Top
6P19										Not Issued
6P20	6	16	4'-0"	107		2'-3"	1'-9"			Pier Cap
6P21	6	4	6'-0"	Str.						Pier Cap
7P1	7	10	7'-0"	104	4'-6"	2'-6"	8"			Pier Cap Top Dowel

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
DECK SLAB - SOUTHBOUND										
* 4S1	4	244	7'-6"	Str.						Trans. - Top
* 5S1	5	444	28'-6"	Str.						Long. - T & B
* 5S2	5	222	27'-6"	Str.						Long. - T & B
* 5S3	5	490	5'-3"	101	1'-1"	1'-3"	10"	10"		Curb Dowels
* 5S4	5	28	6'-6"	Str.						Trans. - At Abut.
* 5S5	5	7	6'-9"	Str.						Trans. - At Abut.
* 5S6	5	86	4'-6"	118	4'-0"	6"				Long. - At Abut.
* 5S7	5	487	15'-6"	Str.						Trans. - Top
* 5S8	5	487	28'-8"	Str.						Trans. - Top
* 5S9	5	487	25'-6"	Str.						Trans. - Bot.
* 5S10	5	487	18'-4"	Str.						Trans. - Bot.
* 5S11	5	7	4'-1"	Str.						Trans. - T & B
* 5S12	5	7	3'-1"	Str.						Trans. - T & B
* 7S1	7	340	21'-0"	Str.						Long. - Over Piers
* 7S2	7	340	30'-0"	Str.						Long. - Over Piers

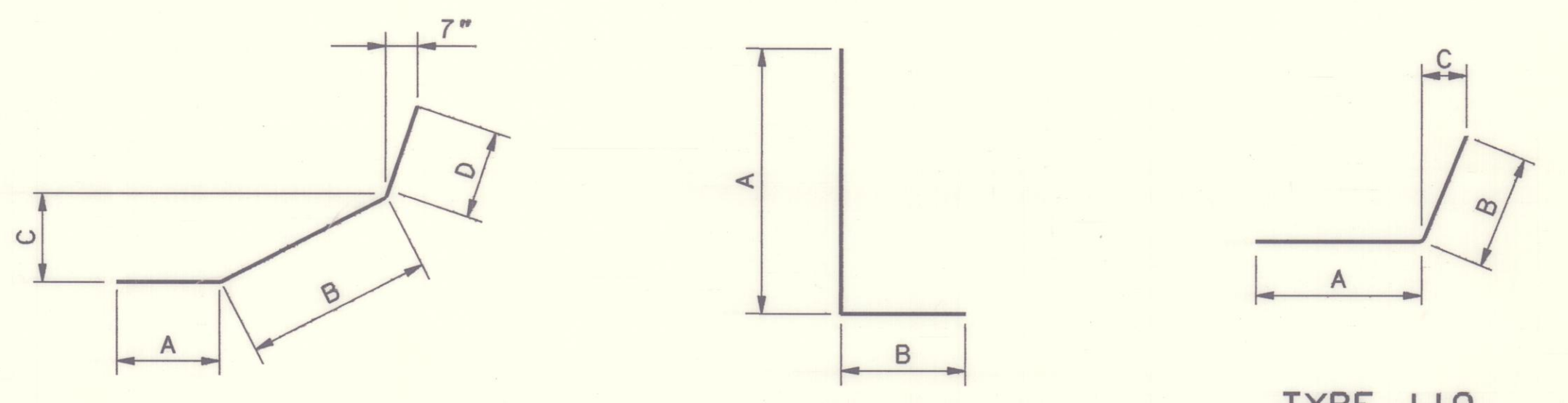
MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
DECK SLAB - NORTHBOUND										
* 4S1	4	244	7'-6"	Str.						Trans. - Top
* 5S1	5	444	28'-6"	Str.						Long. - T & B
* 5S2	5	222	27'-6"	Str.						Long. - T & B
* 5S3	5	490	5'-3"	101	1'-1"	1'-3"	10"	10"		Curb Dowels
* 5S4	5	28	6'-6"	Str.						Trans. - At Abut.
* 5S5	5	7	6'-9"	Str.						Trans. - At Abut.
* 5S6	5	86	4'-6"	118	4'-0"	6"				Long. - At Abut.
* 5S7	5	487	15'-6"	Str.						Trans. - Top
* 5S8	5	487	28'-8"	Str.						Trans. - Top
* 5S9	5	487	25'-6"	Str.						Trans. - Bot.
* 5S10	5	487	18'-4"	Str.						Trans. - Bot.
* 5S11	5	7	4'-1"	Str.						Trans. - T & B
* 5S12	5	7	3'-1"	Str.						Trans. - T & B
* 7S1	7	340	21'-0"	Str.						Long. - Over Piers
* 7S2	7	340	30'-0"	Str.						Long. - Over Piers



TYPE 101 TYPE 102 TYPE 104



TYPE 107 TYPE 109 TYPE 111



TYPE 116 TYPE 118 TYPE 119

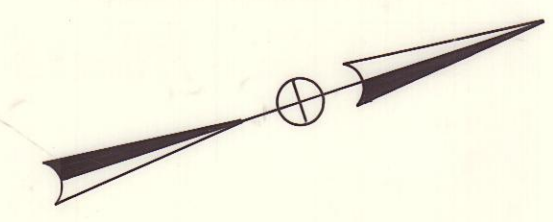
Designed	IS	1/92
Drawn	BDH	1/92
Checked	RAL	1/92
No.	Revision	By
		Date
		In Charge Of: RAL

Maine Turnpike Authority
Maine Turnpike

MAINE CENTRAL R.R.
 REINFORCING SCHEDULE IV

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

Contract 92.9 Sheet No. 26 of 32



ITEM 656.632 30 INCH SILT FENCE	LF
STA. 2377+67 97' RT. TO STA. 2378 90' LT.	200
STA. 2379 118' RT. TO STA. 2379+52 117' LT.	280
TOTAL	480

ITEM 202.202 REMOVING PAVEMENT SURFACE	SY
STA. 2376+53 TO STA. 2377+8 RT.	164
STA. 2376+63 TO 2377+21 LT.	164
STA. 2379+55 TO 2380+7 RT.	164
STA. 2379+65 TO 2380+17 LT.	164
ENTIRE SOUTHBOUND BRIDGE DECK	820
TOTAL	1476

ITEM 401.10 SAWING BITUMINOUS CONCRETE	LF
STA. 2375+57 TO STA. 2377+19 37' LT.	162
STA. 2375+39 TO STA. 2377+5 37' RT.	166
STA. 2379+67 TO STA. 2381+33 37' LT.	166
STA. 2379+53 TO STA. 2381+15 37' RT.	162
STA. 2375+57 (37' LT. TO 45' LT.)	8
STA. 2375+39 (37' RT. TO 45' RT.)	8
STA. 2381+33 (37' LT. TO 45' LT.)	8
STA. 2381+15 (37' RT. TO 45' RT.)	8
TOTAL	688

ITEM 421.01 PRECAST CONCRETE DOWNSPOUT	LF
STA. 2377+18 95 RT. TO 49' LT.	144
TOTAL	144

ITEM 656.50 BALED HAY IN PLACE	EA
STA. 2377+67 97' RT. TO STA. 2378 90' LT.	80
STA. 2379 118' RT. TO STA. 2379+52 117' LT.	112
TOTAL	192

ITEM 606.371 GUARD RAIL REMOVE AND STACK, SINGLE RAIL	LF
STA. 2376+67 42' RT. TO BRIDGE END POST	27
STA. 2376+85 42' LT. TO BRIDGE END POST	27
BRIDGE END POST TO 2379+87 42' RT.	27
BRIDGE END POST TO 2380+05 42' LT.	27
TOTAL	108

ITEM 606.381 GUARD RAIL REMOVE AND RESET, SINGLE RAIL	LF
REMOVE STA. 2375+39 45' RT. TO STA. 2376+67 42' RT.	128
RESET STA. 2375+39 45' RT. TO STA. 2376+67 47' LT.	128
REMOVE STA. 2375+57 45' RT. TO STA. 2376+85 42' LT.	128
RESET STA. 2375+57 45' RT. TO STA. 2376+85 47' LT.	128
REMOVE STA. 2379+87 42' RT. TO STA. 2381+15 45 RT.	128
RESET STA. 2379+87 47' RT. TO STA. 2381+15 45' RT.	128
REMOVE STA. 2380+05 42' LT TO STA. 2381+33 45' LT.	128
RESET STA. 2380+05 47 LT. TO STA. 2381+33 45' LT.	128
TOTAL	512

ITEM 603.159 12 INCH CULVERT PIPE OPTION III	LF
STA. 2379+90 80' LT. TO 95' LT.	15
TOTAL	15

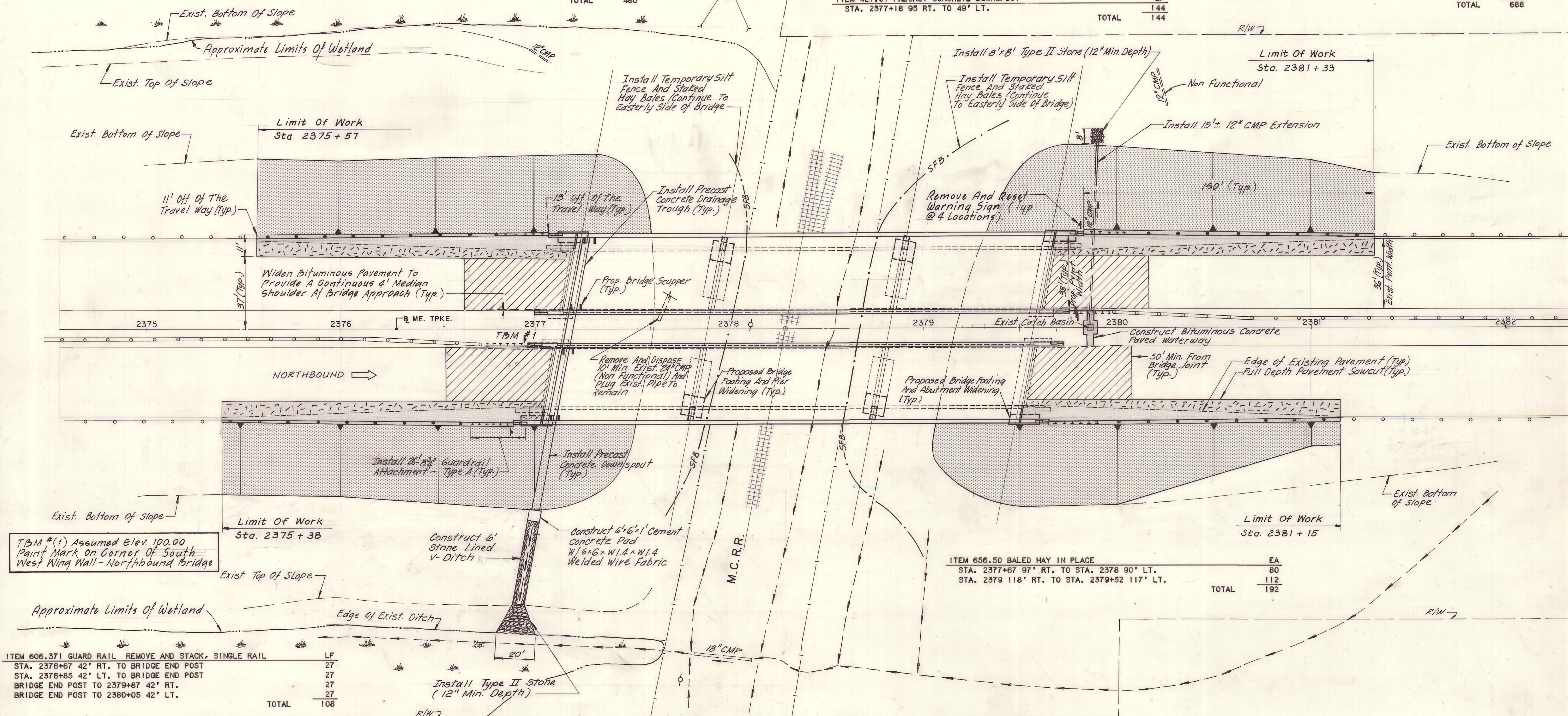
ITEM 613.319 TEMPORARY EROSION CONTROL BLANKET	SY.
STA. 2375+38 RT. TO STA. 2377+52 RT.	901
STA. 2375+57 LT. TO STA. 2377+59 LT.	846
STA. 2379+05 RT. TO STA. 2381+15 RT.	709
STA. 2379+31 LT. TO STA. 2381+33 LT.	833
TOTAL	3289

ITEM 606.174 GUARD RAIL ATTACHMENT - TYPE A	EA
STA. 2376+67 47' RT. TO BRIDGE END POST	1
STA. 2376+85 47' LT. TO BRIDGE END POST	1
STA. 2376+75 9' RT. TO BRIDGE END POST	1
BRIDGE END POST TO 2379+87 47' RT.	1
BRIDGE END POST TO 2380+05 47' LT.	1
BRIDGE END POST TO 2379+98 9' LT.	1
TOTAL	6

ITEM 606.372 GUARD RAIL REMOVE AND STACK, DOUBLE RAIL	LF
STA. 2376+75 9' RT. TO BRIDGE END POST	27
BRIDGE END POST TO 2379+98 9' RT.	27
TOTAL	54

LEGEND

- PAVEMENT MILLING 1/2" BITUMINOUS CONCRETE OVERLAY
- BITUMINOUS CONCRETE PAVEMENT REMOVAL
- 3" BITUMINOUS CONCRETE PAVEMENT
- EXISTING SINGLE RAIL GUARDRAIL
- GUARDRAIL ATTACHMENT TYPE "A" (REMOVE AND STACK EXISTING GUARDRAIL)
- TEMPORARY EROSION CONTROL BLANKET
- REMOVE AND RESET SINGLE RAIL GUARDRAIL
- EXISTING DOUBLE RAIL GUARDRAIL
- EXISTING DITCH
- SILT FENCE AND HAY BALES

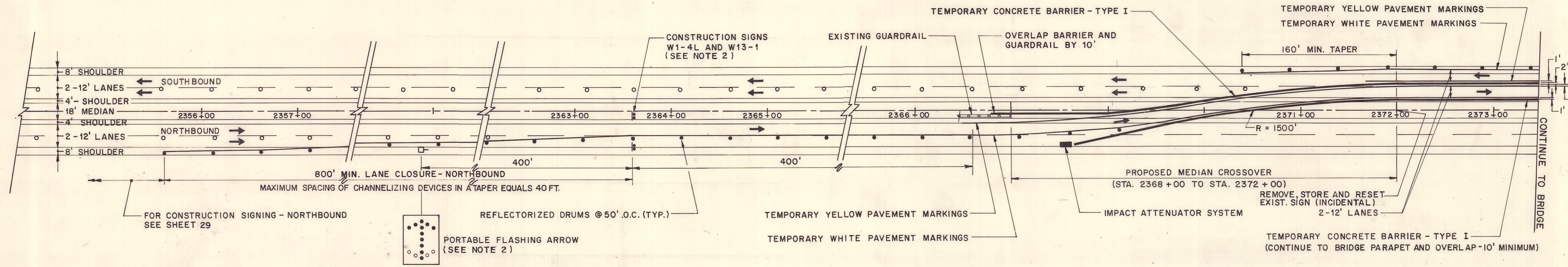


Maine Turnpike Authority
Maine Turnpike
 BRIDGE DECK REPLACEMENT
 MAINE CENTRAL R.R.
 SITE PLAN

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9 Sheet No. 27 of 32

By:	Date:
Designed JFC	12/91
Drawn LS	12/91
Checked BJB	01/92
In charge of:	RAL



PHASE I DETOUR - SOUTH OF BRIDGE

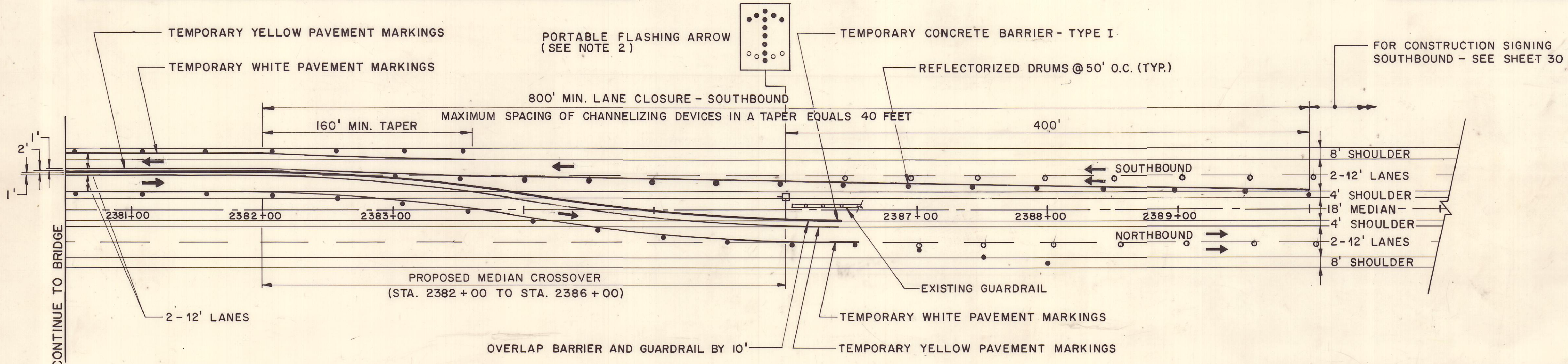
SCALE: 1" = 50'

CURVE DATA FOR DETOUR

ROADWAY	R	Δ	T	PC	PRC	PT
NORTHBOUND	1500'	9°-07'-46"	119.76	2381+60	2384+00	2386+40

CURVE DATA FOR DETOUR

ROADWAY	R	Δ	T	PC	PRC	PT
NORTHBOUND	1500'	9°-07'-46"	119.76	2367+60	2370+00	2372+40

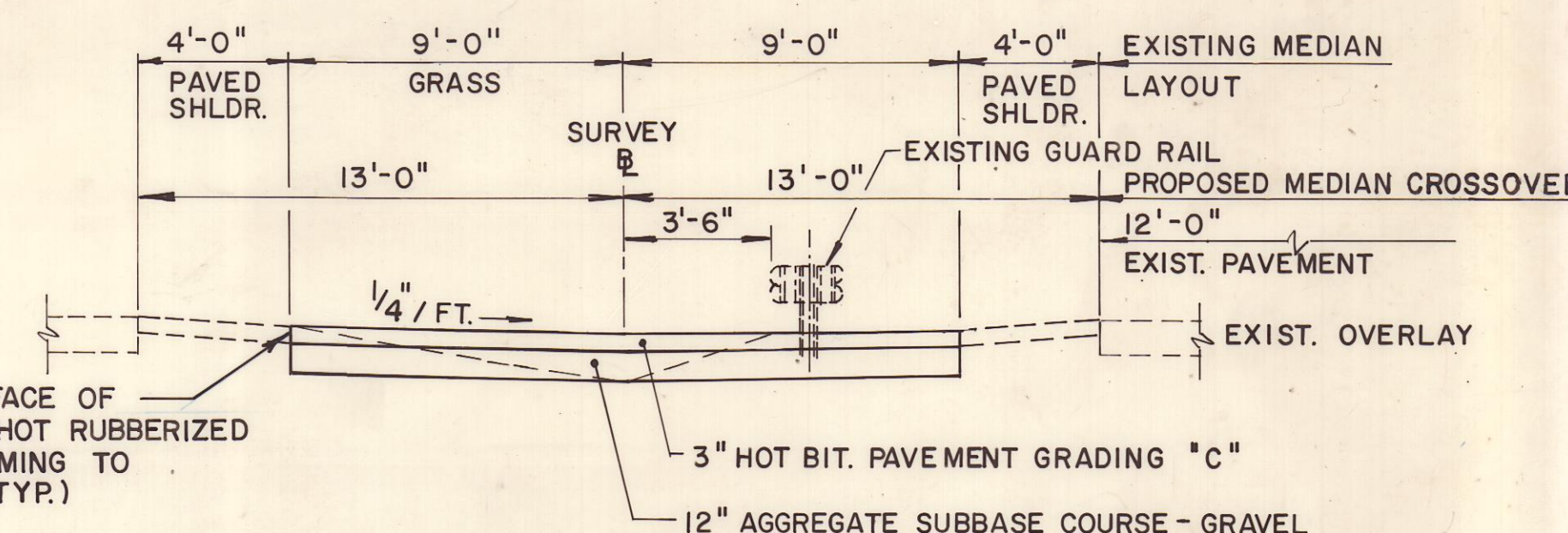


PHASE I DETOUR - NORTH OF BRIDGE

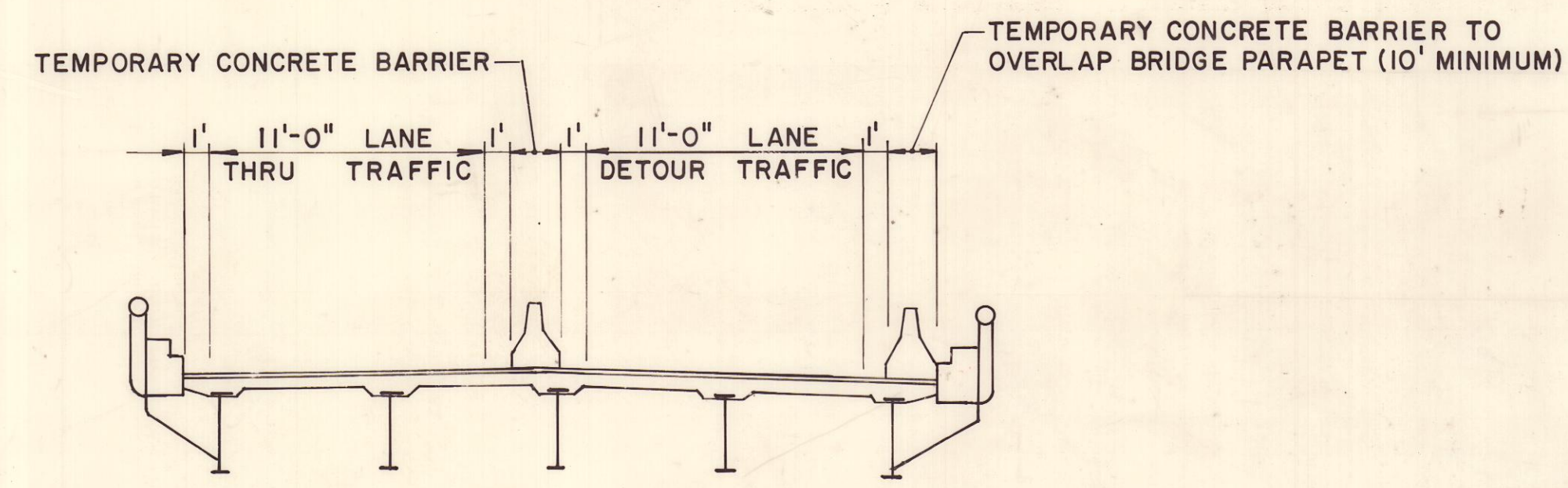
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LEGEND

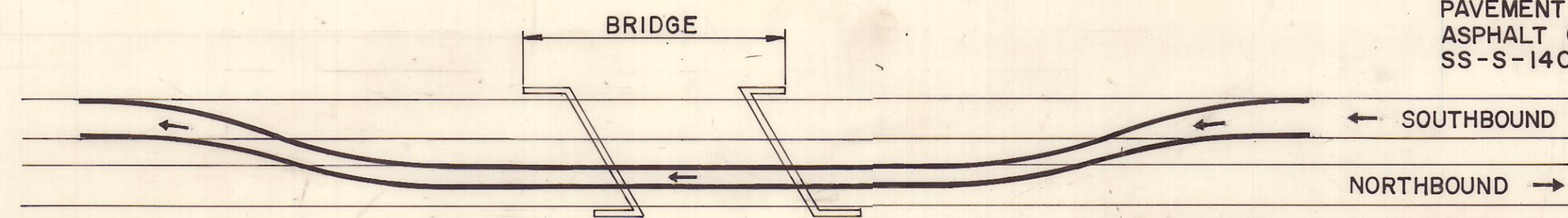
- TEMPORARY PAVEMENT MARKINGS
- TEMPORARY CONCRETE BARRIER
- REFLECTORIZED DRUMS @ 50' O.C.
- IMPACT ATTENUATOR SYSTEM
- PORTABLE FLASHING ARROW
- CONSTRUCTION SIGN
- DIRECTION OF TRAFFIC
- REFLECTORIZED DRUMS @ 50'-0" O.C. FOR SINGLE LANE RESTRICTION SEE NOTE 2



TYPICAL SECTION - MEDIAN CROSSOVER
NOT TO SCALE



TYPICAL SECTION THRU BRIDGE
NOT TO SCALE



PHASE II DETOUR

NOT TO SCALE

NOTES:

- PHASE II WILL DETOUR SOUTHBOUND TRAFFIC ON TO THE COMPLETED NORTHBOUND BRIDGE DECK. THE NORTHBOUND AND SOUTHBOUND TRAFFIC WILL BE REDUCED TO ONE TRAVEL LANE IN EACH DIRECTION AS THEY SHARE THE NORTHBOUND BRIDGE DECK. THE PHASE II DETOUR LAYOUT SHALL BE REFLECTIVE OF THE PHASE I DETOUR LAYOUT. STATION LIMITS, TAPER LENGTHS, CURVE DATA AND THE STATION LOCATION OF TRAFFIC CONTROL DEVICES SHALL REFLECT THE PHASE I DETOUR.
- THE CONTRACTOR SHALL NOTE THAT OTHER ADJACENT TURNPIKE BRIDGE PROJECTS MAY BE IN PROGRESS DURING CONSTRUCTION OF THE MAINE CENTRAL RAILROAD BRIDGE PROJECT. THE PLACEMENT OF SIGNS AND OTHER TRAFFIC CONTROL DEVICES WILL BE DEPENDENT ON THE ADJACENT BRIDGE PROJECTS. THE CONTRACTOR SHALL RESTRICT TRAFFIC TO ONE 12' LANE NORTHBOUND AND SOUTHBOUND WITH DRUMS @ 50' SPACING FROM STA. 2347+00 TO STA. 2372+00 & STA. 2382+00 TO STA. 2408+00. ALL PLACEMENT OF TRAFFIC CONTROL DEVICES AND COORDINATION WITH OTHER TURNPIKE BRIDGE PROJECTS SHALL BE APPROVED BY THE ENGINEER. ADDITIONAL DRUMS SHALL BE PAID FOR UNDER ITEM 652.33

By:	Date:
Designed JFC	2/91
Drawn BDH	2/91
Checked BJB	2/91
In charge of:	RAL

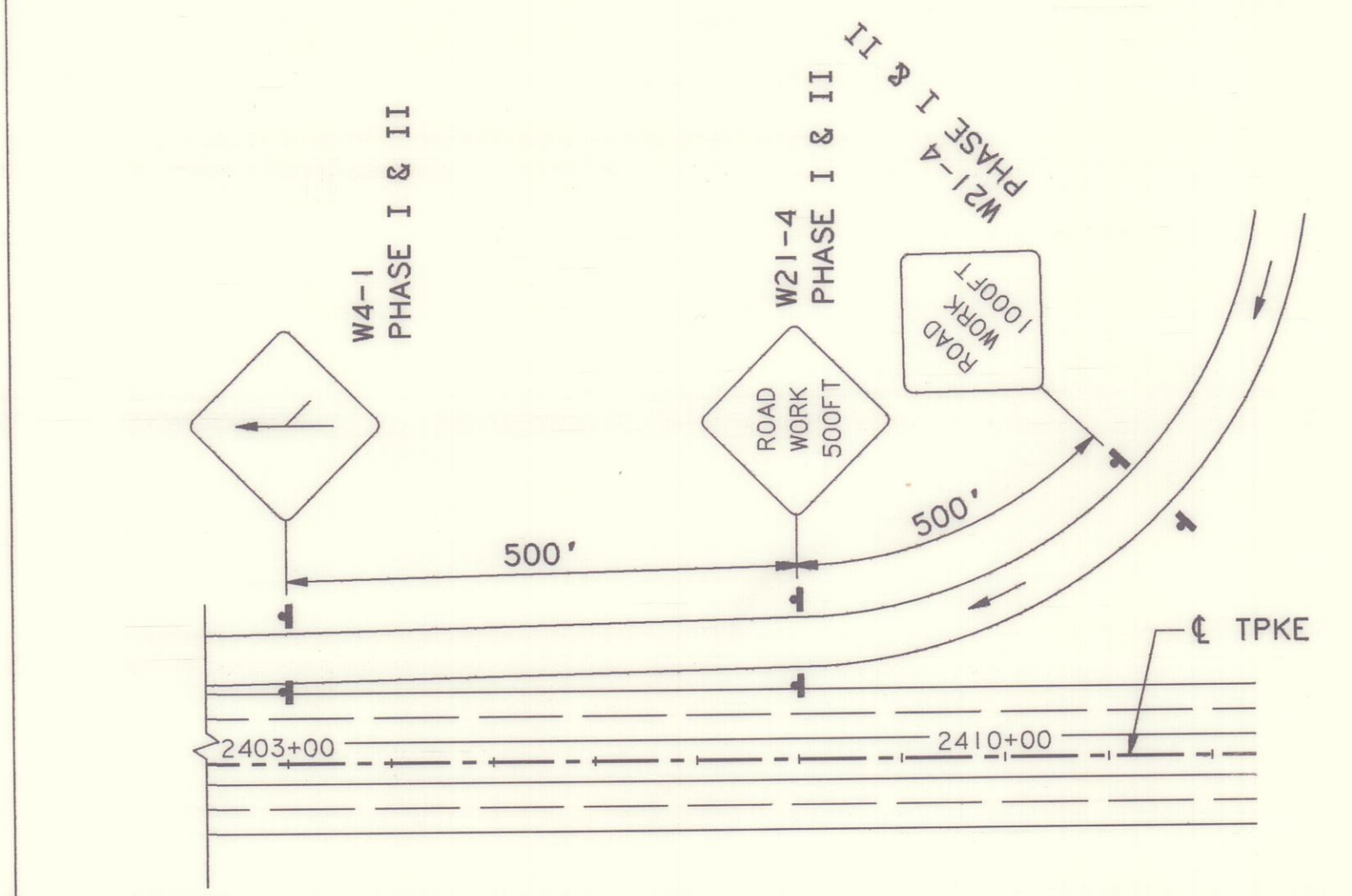
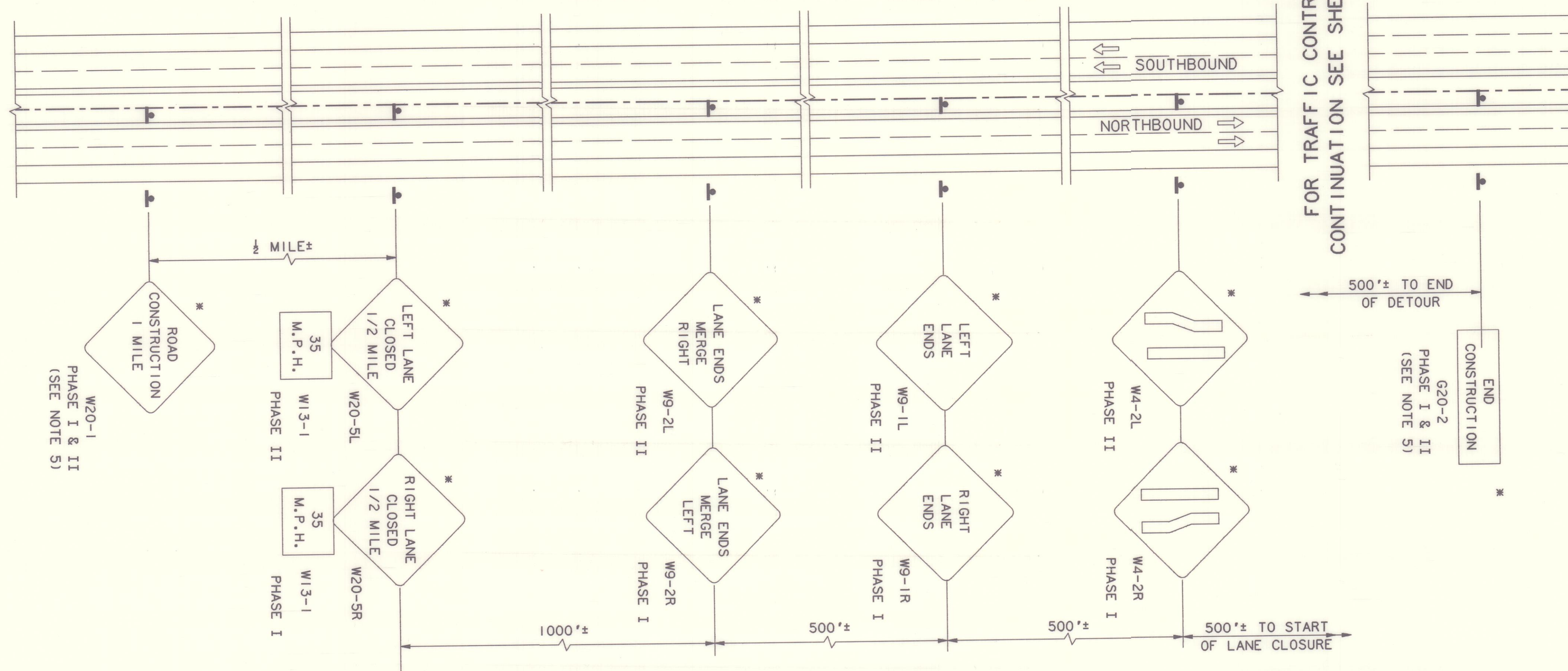
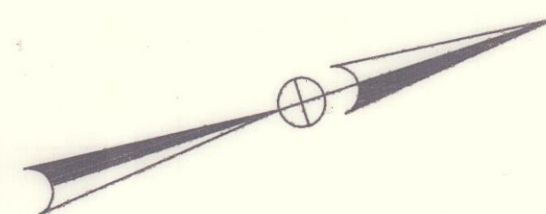
Maine Turnpike Authority
Maine Turnpike

BRIDGE DECK REPLACEMENT
MAINE CENTRAL R.R. TRAFFIC DETOUR

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. 28 of 32



INTERCHANGE 8
SOUTHBOUND RAMP-ON
 NTS
PHASE I & II

PLAN - SOUTHERLY SIDE OF TRAFFIC DETOURS

ITEM 606.382 GUARD RAIL (DOUBLE FACE) REMOVE AND RESET	LF	400
STA. 2368+00 TO STA. 2372+00		400
STA. 2382+00 TO STA. 2386+00		
TOTAL		800
ITEM 663.05 TEMPOARY CONCRETE BARRIER	LF	1860
STA. 2367+90 TO 2386+50		860
STA. 2368+65 TO 2377+25		2720
ITEM 663.06 RESETTING TEMPORARY CONCRETE BARRIER	LF	1860
STA. 2367+90 TO STA. 2386+50		590
STA. 2379+50 TO STA. 2385+40		
TOTAL		2450
ITEM 627.70 4 INCH YELLOW TEMPORARY PAVEMENT MARKINGS - TAPE	LF	
PHASE I		
STA. 2367+50 TO STA. 2386+40 NB		1890
STA. 2371+70 TO STA. 2390+00 SB		1830
PHASE II		
STA. 2367+50 TO STA. 2386+40 SB		1890
STA. 2364+00 TO STA. 2382+30 NB		1830
TOTAL		7440
ITEM 627.71 4 INCH WHITE TEMPORARY PAVEMENT MARKINGS TAPE	LF	
PHASE I		
STA. 2355+60 TO STA. 2386+60 NB		3100
STA. 2370+40 TO STA. 2383+60 SB		1320
PHASE II		
STA. 2367+30 TO STA. 2398+40 SB		3110
STA. 2370+40 TO STA. 2383+60 NB		1320
TOTAL		8850

ITEM 527.10 TEMPORARY IMPACT ATTENUATOR SYSTEM (LS)	LS	
PHASE I		
STA. 2368+55 NB		1
PHASE II		
STA. 2385+45 SB (RELOCATED FROM PHASE I)		-
TOTAL		1
ITEM 627.671 REMOVING PAINTED PAVEMENT MARKINGS	LF	
PHASE I		
STA. 2363+30 TO STA. 2370+00 NB SKIP		168
STA. 2367+50 TO STA. 2370+00 NB SOLID LEFT		250
STA. 2370+00 TO STA. 2384+00 SB SOLID LEFT		1400
STA. 2371+00 TO STA. 2386+40 SB SKIP		385
STA. 2370+40 TO STA. 2383+60 SB SOLID RIGHT		1320
STA. 2384+00 TO STA. 2386+40 NB SOLID LEFT		240
PHASE II		
STA. 2384+00 TO STA. 2390+70 SB SKIP		168
STA. 2383+90 TO STA. 2386+50 SB SOLID LEFT		260
STA. 2369+90 TO STA. 2383+90 NB SOLID LEFT		1400
STA. 2367+40 TO STA. 2382+80 NB SKIP		385
STA. 2370+40 TO STA. 2383+60 NB SOLID RT.		1320
STA. 2367+60 TO STA. 2370+00 SB SOLID LT.		240
TOTAL		7536
ITEM 652.30 FLASHING ARROW BOARD	EA	
PHASE I		
STA. 2359+60 40' RT. AND STA. 2386+00 12' LT.		2
PHASE II		
STA. 2368+00 12' RT. AND STA. 2394+40 40' LT. (RELOCATE FROM PHASE I)		
TOTAL		2

ITEM 652.33 DRUM	EA	
PHASE I		
STA. 2370+40 TO STA. 2377+23 SB		16
STA. 2379+70 TO STA. 2383+60 SB		10
STA. 2355+60 TO STA. 2369+20 NB		32
STA. 2383+00 TO STA. 2390+00 NB		19
STA. 2379+70 TO STA. 2388+00 NB		17
TOTAL		94
PHASE II		
STA. 2370+40 TO STA. 2383+60 NB		30
STA. 2384+90 TO STA. 2398+40 SB		32
STA. 2364+00 TO STA. 2371+00 SB		19
STA. 2366+00 TO STA. 2377+10 SB		23
TOTAL		104

TOTAL REQUIRED DRUMS = 104

* THE CONTRACTOR SHALL NOTE THAT OTHER ADJACENT TURNPIKE BRIDGE PROJECTS MAY BE IN PROGRESS DURING CONSTRUCTION OF THE MAINE CENTRAL RAILROAD BRIDGE PROJECT. THE PLACEMENT OF SIGNS AND OTHER TRAFFIC CONTROL DEVICES WILL BE DEPENDENT ON THE ADJACENT BRIDGE PROJECTS. THE CONTRACTOR SHALL RESTRICT TRAFFIC TO ONE 12' LANE NORTHBOUND AND SOUTHBOUND WITH DRUMS @ 50' SPACING FROM STA. 2347+00 TO STA. 2372+00 AND STA. 2382+00 TO STA. 2408+00. ALL PLACEMENT OF TRAFFIC CONTROL DEVICES AND COORDINATION WITH OTHER TURNPIKE BRIDGE PROJECTS SHALL BE APPROVED BY THE ENGINEER. ADDITIONAL DRUMS SHALL BE PAID FOR UNDER ITEM 652.33.

GENERAL NOTES

- SIGNING SHALL BE ERECTED ON BOTH SIDES OF THE ROADWAY UNLESS SHOWN OTHERWISE.
- FLAGMEN SHALL BE USED AS DESIGNATED BY THE ENGINEER.
- THE AUTHORITY SHALL FURNISH ALL TEMPORARY CONCRETE BARRIER. ALL OTHER TRAFFIC CONTROL DEVICES, INCLUDING REFLECTORIZED SIGNS, DRUMS, CONES AND PORTABLE FLASHING ARROWS SHALL BE FURNISHED BY THE CONTRACTOR, SEE SPECIFICATIONS.
- THE LOCATION & SEQUENCE OF SIGNS SHOWN IS APPROXIMATE. ACTUAL LOCATIONS & SEQUENCE SHALL BE APPROVED IN THE FIELD BY THE ENGINEER.
- ALL SIGNS SHALL HAVE OPAQUE BLACK LEGENDS WITH ORANGE REFLECTORIZED BACKGROUNDS.

	By	Date
Designed	JFC	1/92
Drawn	BDH	1/92
Checked	BJB	1/92
In Charge Of:	RAL	

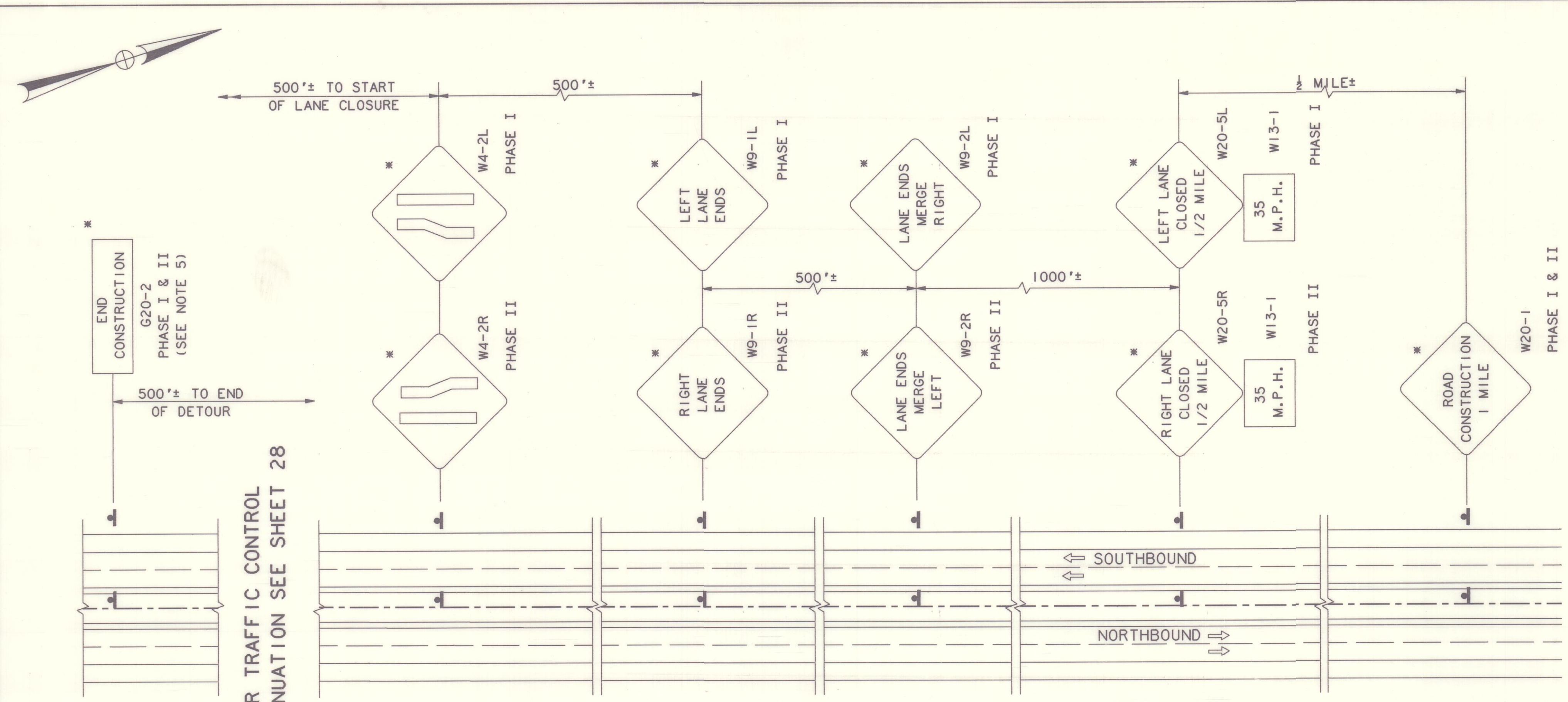
Maine Turnpike Authority
Maine Turnpike

BRIDGE DECK REPLACEMENT
 MAINE CENTRAL RAILROAD
TRAFFIC CONTROL I

HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

Contract 92.9

Sheet No. 29 of 32



FOR TRAFFIC CONTROL
CONTINUATION SEE SHEET 28

PLAN - NORTHERLY SIDE OF TRAFFIC DETOURS


NOTE

* - SEE NOTE, SHEET 29 OF 32.

1. FOR GENERAL SIGNING NOTES, SEE SHEET 29.

No.	Revision	By	Date	In Charge Of:

Maine Turnpike Authority
Maine Turnpike



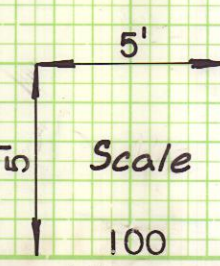
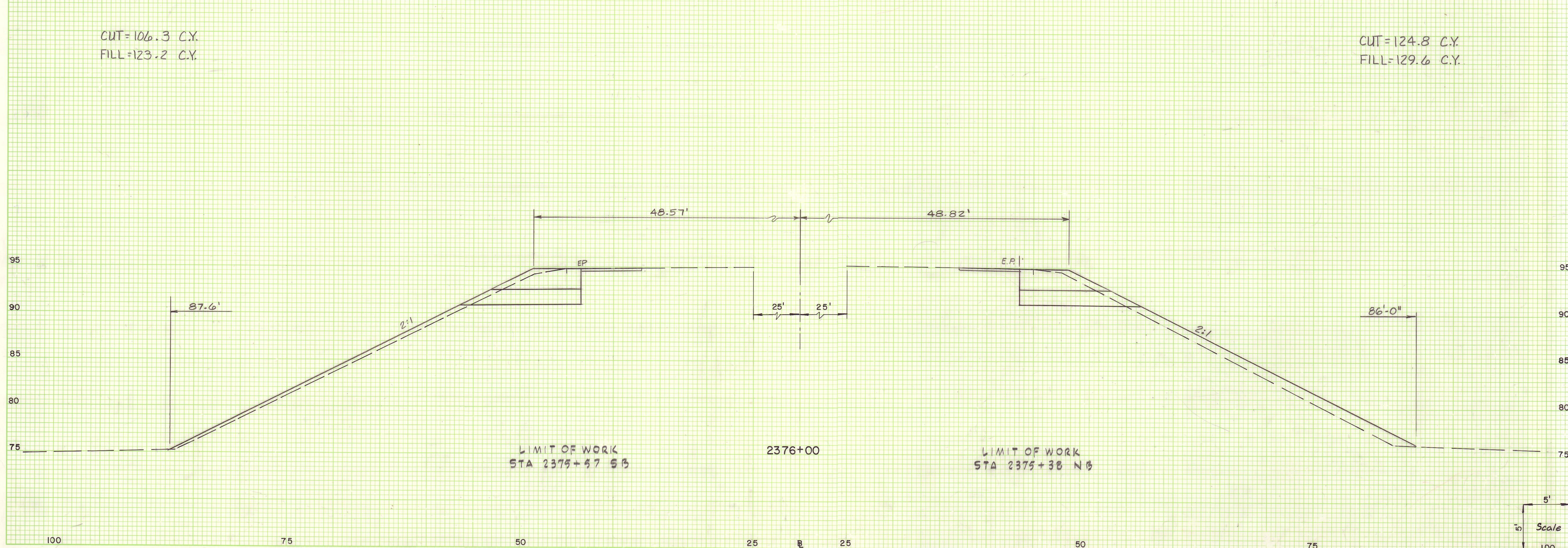
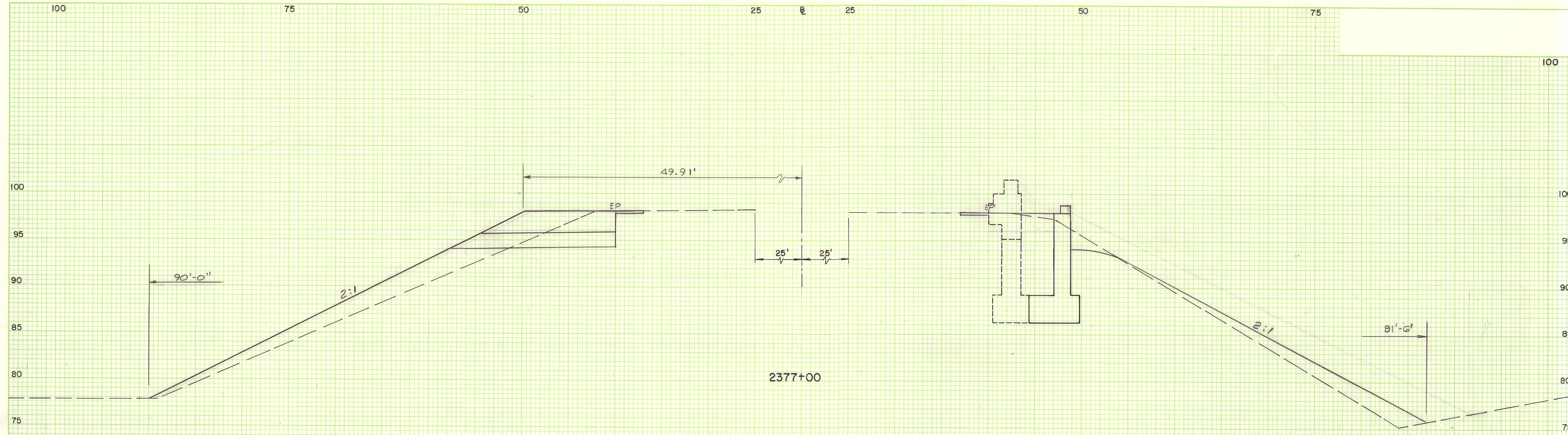
HNTB
HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

BRIDGE DECK REPLACEMENT
MAINE CENTRAL RAILROAD
TRAFFIC CONTROL II

Contract 92.9	Sheet No. 30 of 32
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO	

