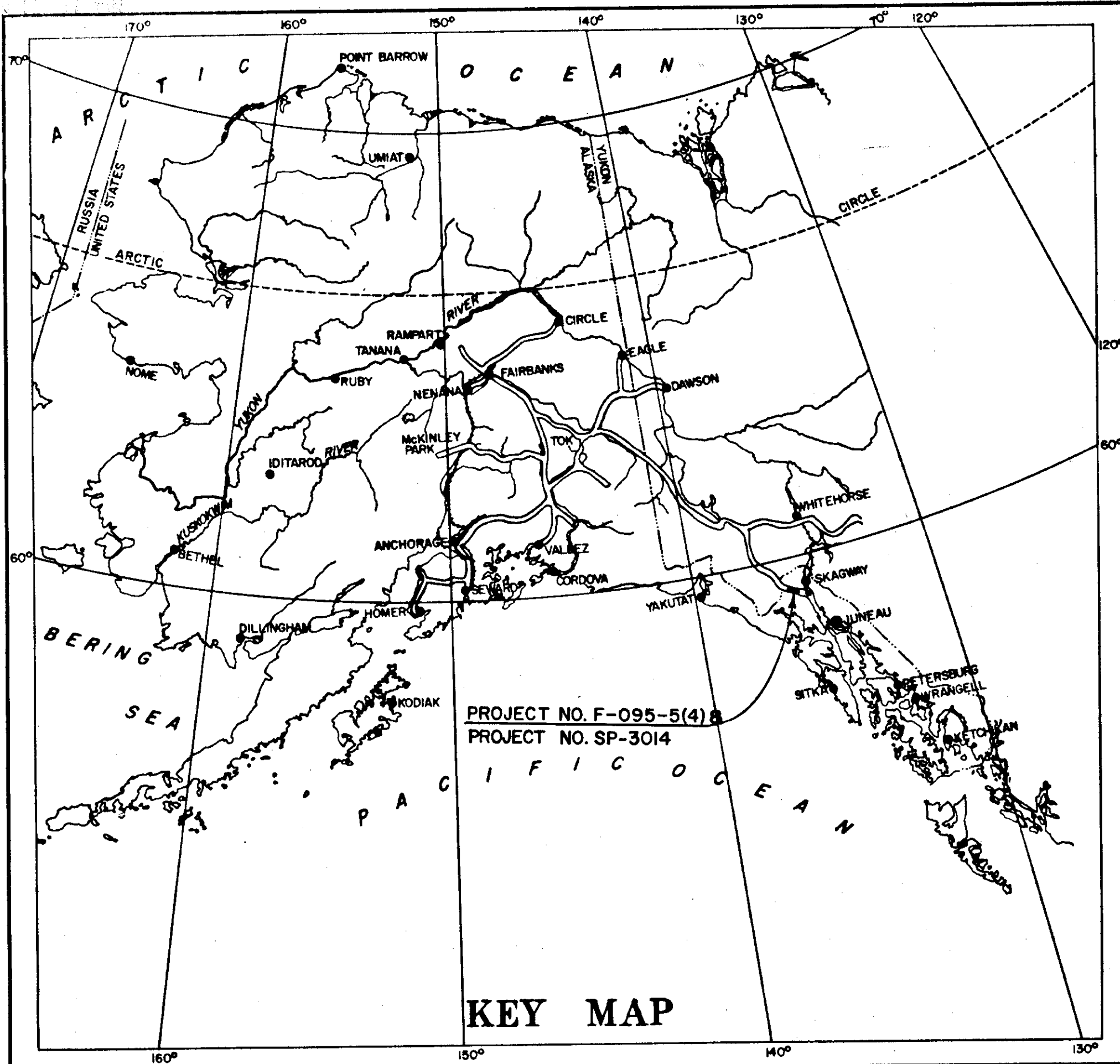


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-5(4) & SP-3014	1961	1	16



STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"AS BUILT PLANS"

PLANS FOR PROPOSED *Contractor ~ E.A. Smith Construction Co
& The Bachner Co. (JV)*
HIGHWAY BRIDGE PROJECT *Project Engineer ~ William L. Gute*
NO. F-095-5(4) *Time Began ~ April 25, 1962*
MUNCASTER CREEK BRIDGE *Time Ended ~ Aug. 12, 1963*
& NO. SP-3014
LITTLE BOULDER CREEK BRIDGE
HAINES CUT-OFF
FAP ROUTE 95
ALASKA

William L. Gute

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
MUNCASTER CREEK	
2	ROADWAY SECTION & ESTIMATE OF QUANTITIES
3	PLAN & PROFILE
4	GENERAL LAYOUT
5	FOUNDATION PLAN
6-7	ABUTMENT DETAILS
8-10	SUPERSTRUCTURE DETAILS
LITTLE BOULDER CREEK	
11	GENERAL LAYOUT
12	SUPERSTRUCTURE DETAILS
S-3	STANDARD APPROACHES
S-5	STANDARD BARRICADE
S-6	STD PROJECT IDENTIFICATION SIGN
S-8	STANDARD BEAM GUARD RAIL

TYPE OF IMPROVEMENT 3210 & X031

LOCATION OF IMPROVEMENT	ROADWORK LENGTH		BRIDGEWORK LENGTH		TOTAL LENGTH	
	FT.	MILE	FT.	MILE	FT.	MILE
MUNCASTER CREEK BRIDGE, F-095-5(4)	170571	0.323	38.80	0.007	1744.51	0.330
LITTLE BOULDER CREEK BRIDGE, SP-3014	35484	0.067	53.93	0.010	40867	0.077
		0.049		54.33		

DESIGN DESIGNATION

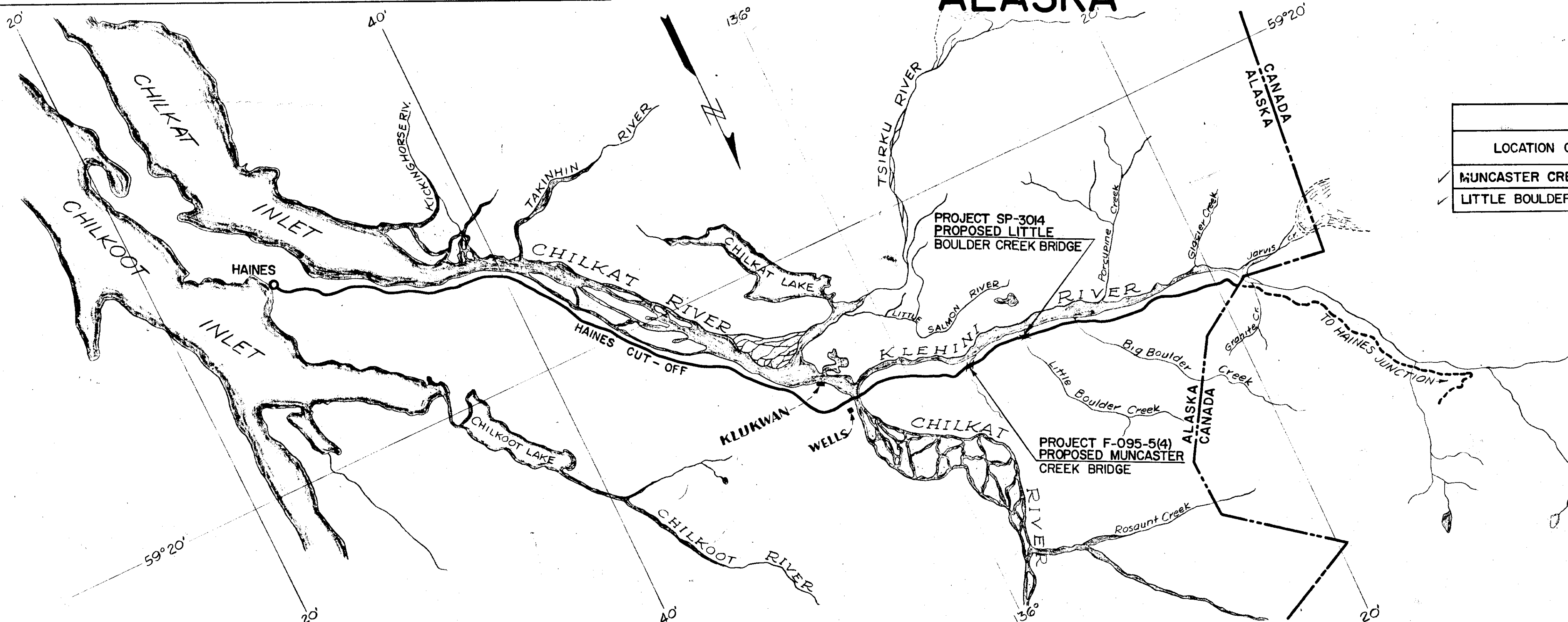
ADT (1960) = 103
ADT (1980) = 400
DHV (30HV) = 80
D = 65%
T = 7%
V = 55 mph

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF HIGHWAYS

APPROVED *Donald R. Roser* Date *9/18/61*
Acting DIRECTOR, DIVISION OF HIGHWAYS

APPROVED

Date _____
REGIONAL ENGINEER
BUREAU OF PUBLIC ROADS
REGION TEN



GENERAL NOTES

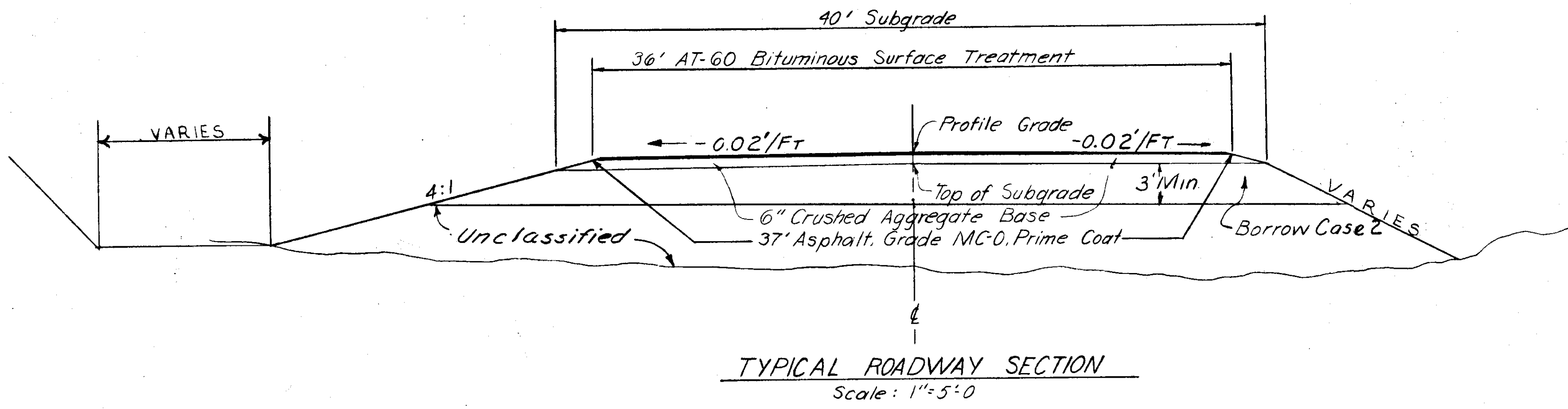
1. Grades and alignment shown on these plans are subject to minor revisions.
2. When necessary for the purpose of expediting traffic, aggregate base or bituminous surface treatment shall be constructed part width at a time.
3. Superelevation shown is in feet per foot of roadway width. Superelevation shall be rotated about centerline and transitioned as directed by the engineer.
4. All unclassified excavation shall be uniformly placed in the lower portions of the roadbed as shown on the plans.
5. Existing pavement shall be obliterated as directed by the engineer.

Item No.	Quantity	Unit	Item Name
102(1)	5,760	Cu Yd	Unclassified Excavation
102(5)	7,500	Cu Yd	Borrow Excavation, Case 2
200(4)	2,050	Ton	Crushed Aggregate Base, Grading D-1
310(3)	1,800	Gal	Asphalt, Grade MC-0, Prime Coat
314(2)	180	Ton	Aggregate Designation AT-60, Bituminous Surface Treatment
314(7)	3,610	Gal	Asphalt, Grade RC-3, Bituminous Surface Treatment
583(1)	188	Lin Ft.	Beam-Type Guard Rail

Note: For bridge quantities see sht. 5 Dwg. #595

Refer To FINAL ESTIMATE FOR QUANTITIES

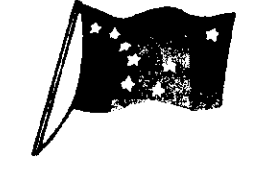
Note: No changes this sheet



MUNCASTER CREEK
ROUTE NO. F-95
ROADWAY SECTION

Scale As Noted BRIDGE NO. 743

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska



Date _____
Approved _____

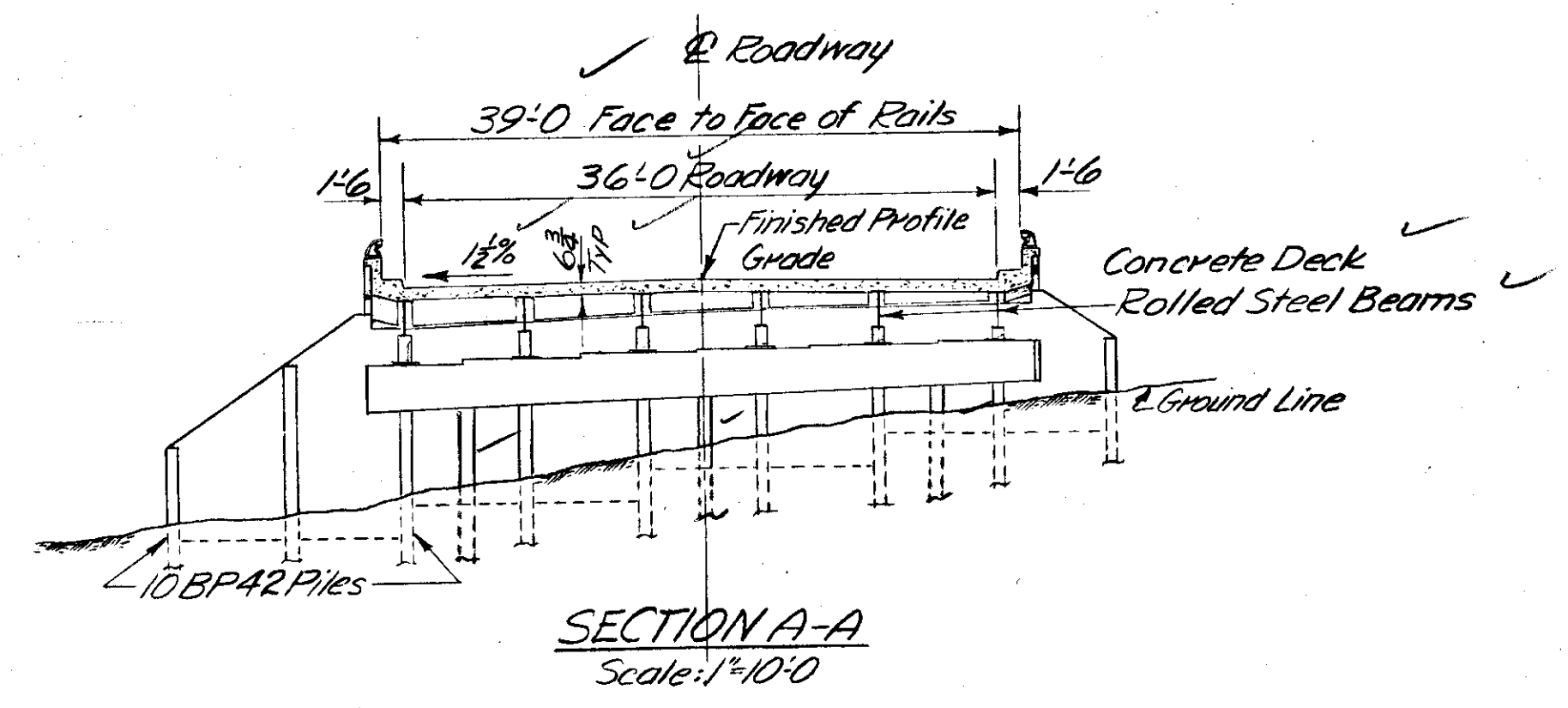
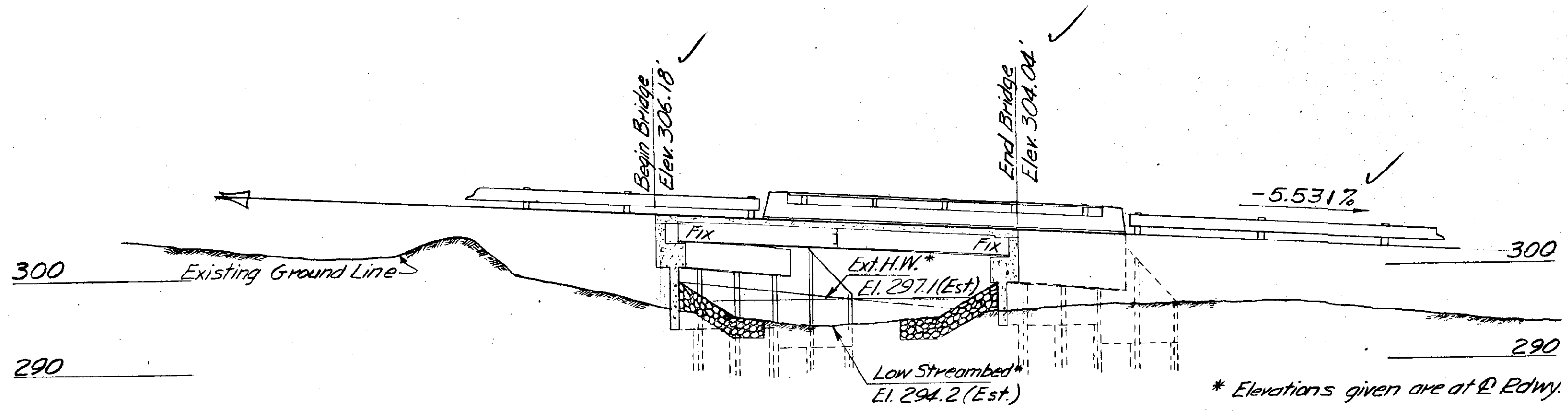
Sheet _____ of _____
DWNG. NO. 592

No.	Date	Description

Checked By: JLB Date: 9-21
 Drawn By: BEH Date: 9-21
 Traced By:

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	95		1961	4	16

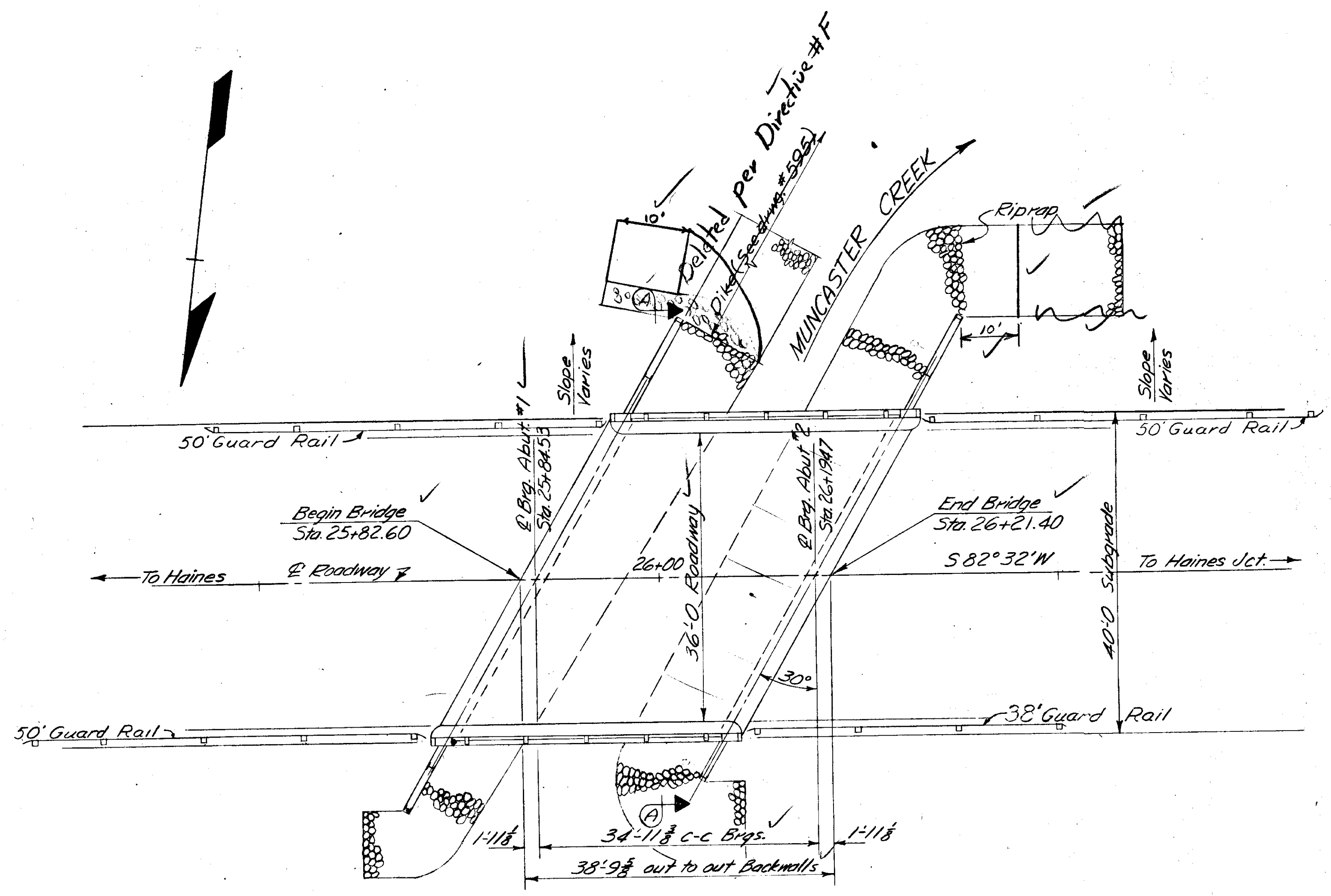
T.B.M. Elev. 298.14 ~ 8" spike in 30" spruce 82' left of existing Muncaster Creek Bridge.



SECTION A-A
Scale: 1"=10'-0"

GENERAL NOTES

Specifications: Design: A.A.S.H.O. Standard Specifications for Highway Bridges, 1957, Seventh Edition, with latest tentative revisions.
Construction: Bureau of Public Roads Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-57, and the Special Provisions of this Contract.
Design Live Load: H 20-516-44
Unit Stresses: Concrete: $f_c = 1,200$ psi $n = 10$, $f_s = 20,000$ psi. Structural Steel: A 7 $f_s = 18,000$ psi, A 440 $f_s = 27,000$ psi.
Concrete: All concrete shall be class A with a minimum compressive strength of 3,000 psi at 28 days. All exposed corners 90° or sharper shall be chamfered $\frac{1}{4}$ inch unless otherwise noted.
Reinforcing Steel: All reinforcement shall be intermediate grade deformed bars conforming to A.A.S.H.O. specifications M 31 and M 137. Dimensions of reinforcing steel are out to out of bars unless otherwise noted. The concrete protective covering for reinforcement shall be not less than: 1 1/2 inches for top of slab and curb, 1 inch for rail and bottom of slab, and 2 inches for abutment.
Structural Steel: Structural steel for 27 WF 94 beams shall conform to A.S.T.M. designation A-440-59T. All other structural steel shall conform to A.S.T.M. designation A-7-58T. Field connections shall be made with $\frac{3}{4}$ inch diameter High Strength Bolts conforming to A.S.T.M. designation A 325.
Piling: Type: 10BP42 Design Load: 35 tons 18 Ton (Change Order #2)
Backfill: Backfill shall not be placed above elevation of top of riprap until superstructure is in place. Backfill shall be placed simultaneously at abutment #1 and abutment #2.



PLAN
Scale: 1"=10'-0"

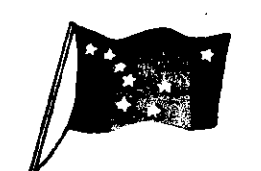
As Built corrections transferred ✓ LAC 10-30-63

MUNCASTER CREEK
ROUTE NO. F-95
GENERAL LAYOUT

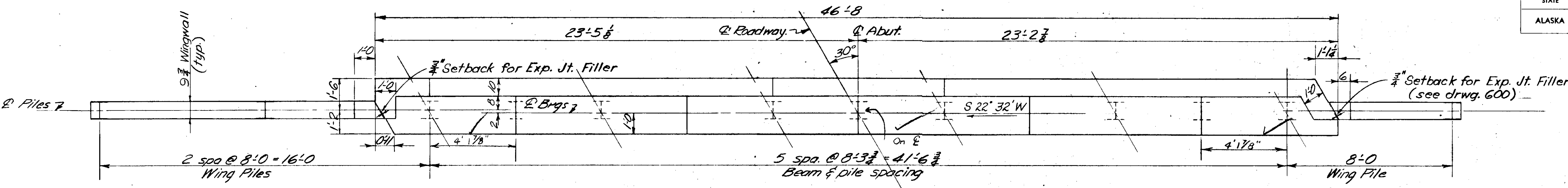
Scale 1" = 10'-0" BRIDGE NO. 743

REVISIONS		
No.	Date	Description

Alaska Department of Public Works
DIVISION OF HIGHWAYS
 Juneau, Alaska

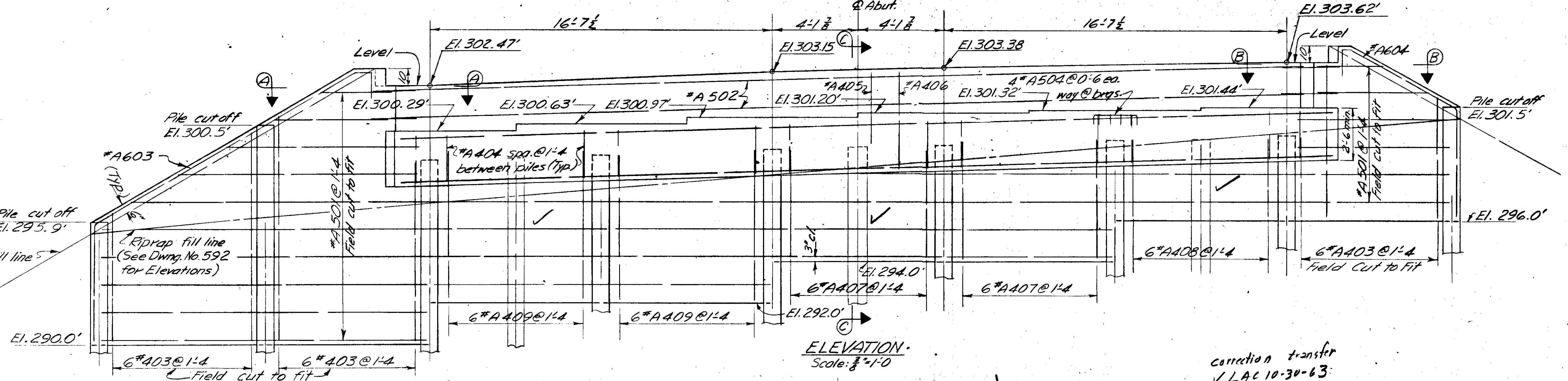


Checked By: R.L. Date: 3-61
 Drawn By: D.H.P. Date: 3-61
 Traced By: _____ Date: _____



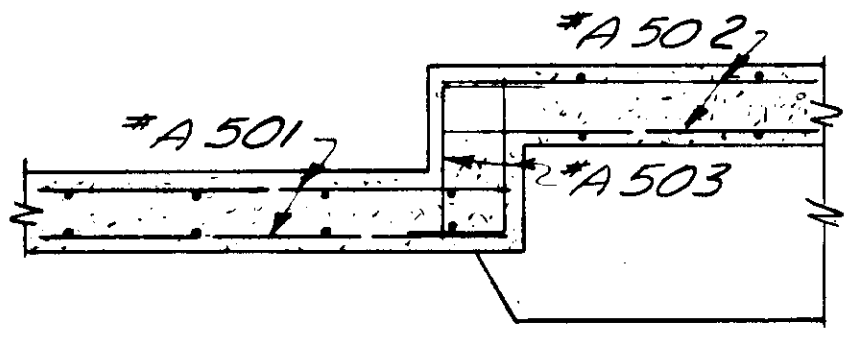
PLAN
Scale: 1/8" = 1'-0"

Note: Three additional piles as per change order #2

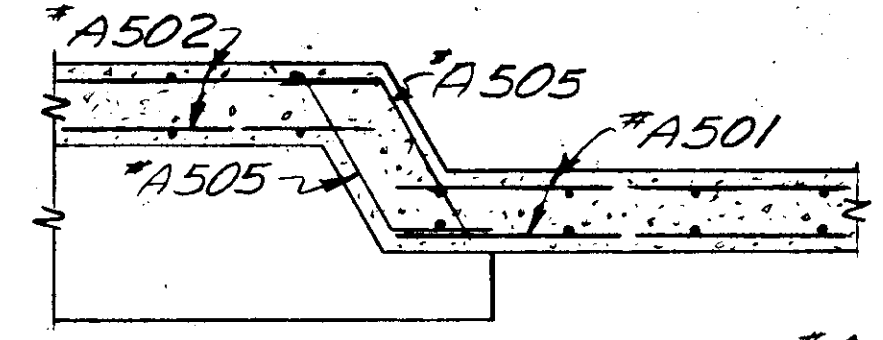


ELEVATION
Scale: 1/8" = 1'-0"

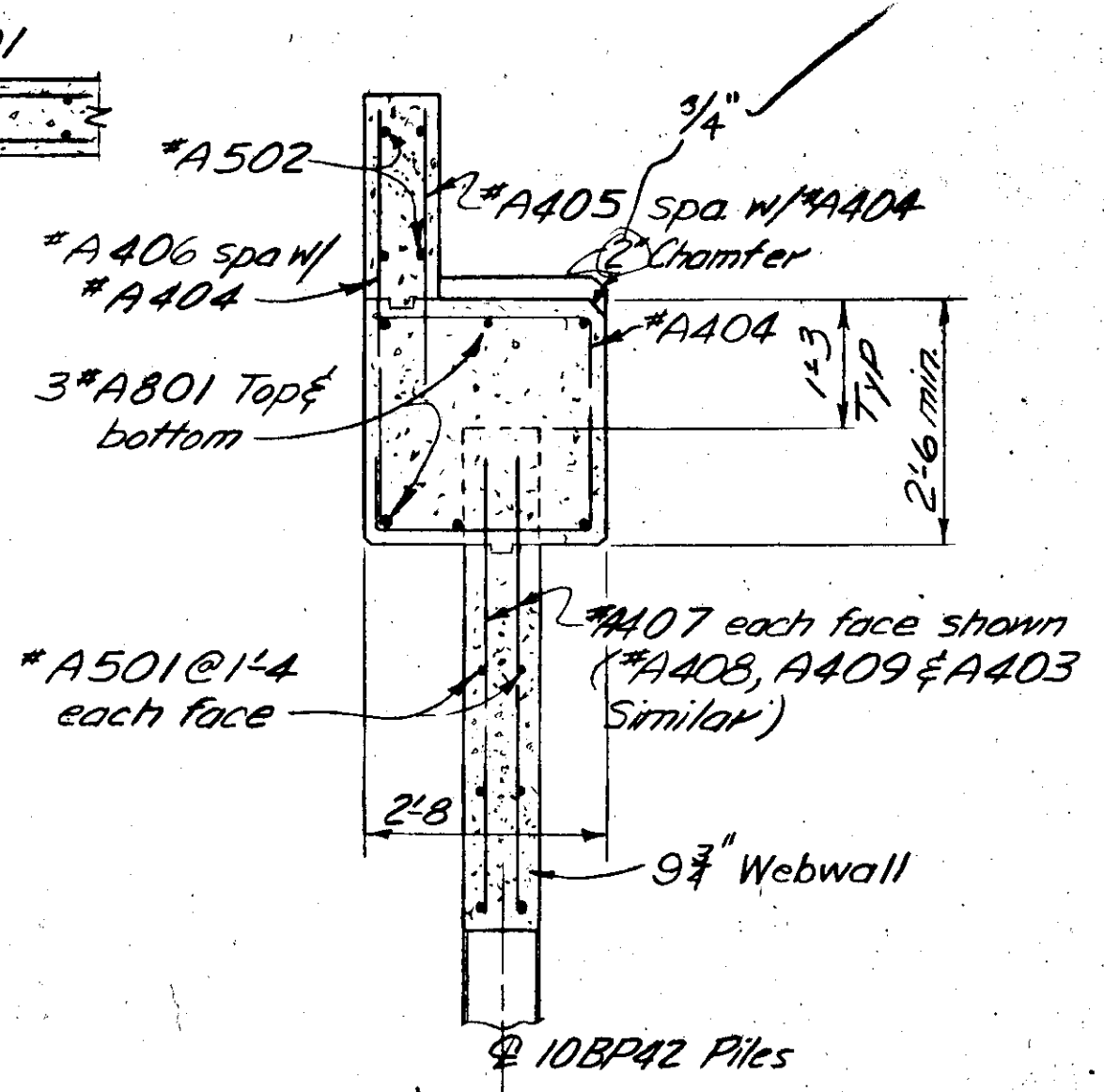
correction transfer
JLAC 10-30-63



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



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



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

ABUTMENT #2 REINFORCING STEEL				
LOCATION	NO.	SIZE	LENGTH	MARK TYPE
Wing wall	8	4	40'-0"	A403
Pile Cap	32	4	7'-6"	A404 Bent
Backwall	32	4	3'-0"	A405
"	32	4	4'-6"	A406
Web wall	24	4	5'-3"	A407
"	12	4	3'-9"	A408
"	24	4	7'-3"	A409
Web & Wing	16	5	40'-0"	A501
Backwall	8	5	23'-0"	A502
"	4	5	2'-7"	A503 Bent
"	48	5	3'-0"	A504 Bent
Cap	4	5	2'-10"	A505 Bent
Wingwall	2	6	22'-0"	A603 Bent
"	2	6	12'-6"	A604 Bent
Cap	12	8	23'-6"	A801

Note: For Substructure Notes see Dwg. No. 596

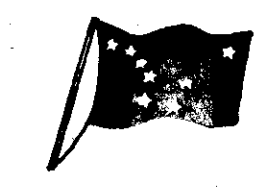
MUNCASTER CREEK
ROUTE NO. F-95
ABUTMENT NO. 2

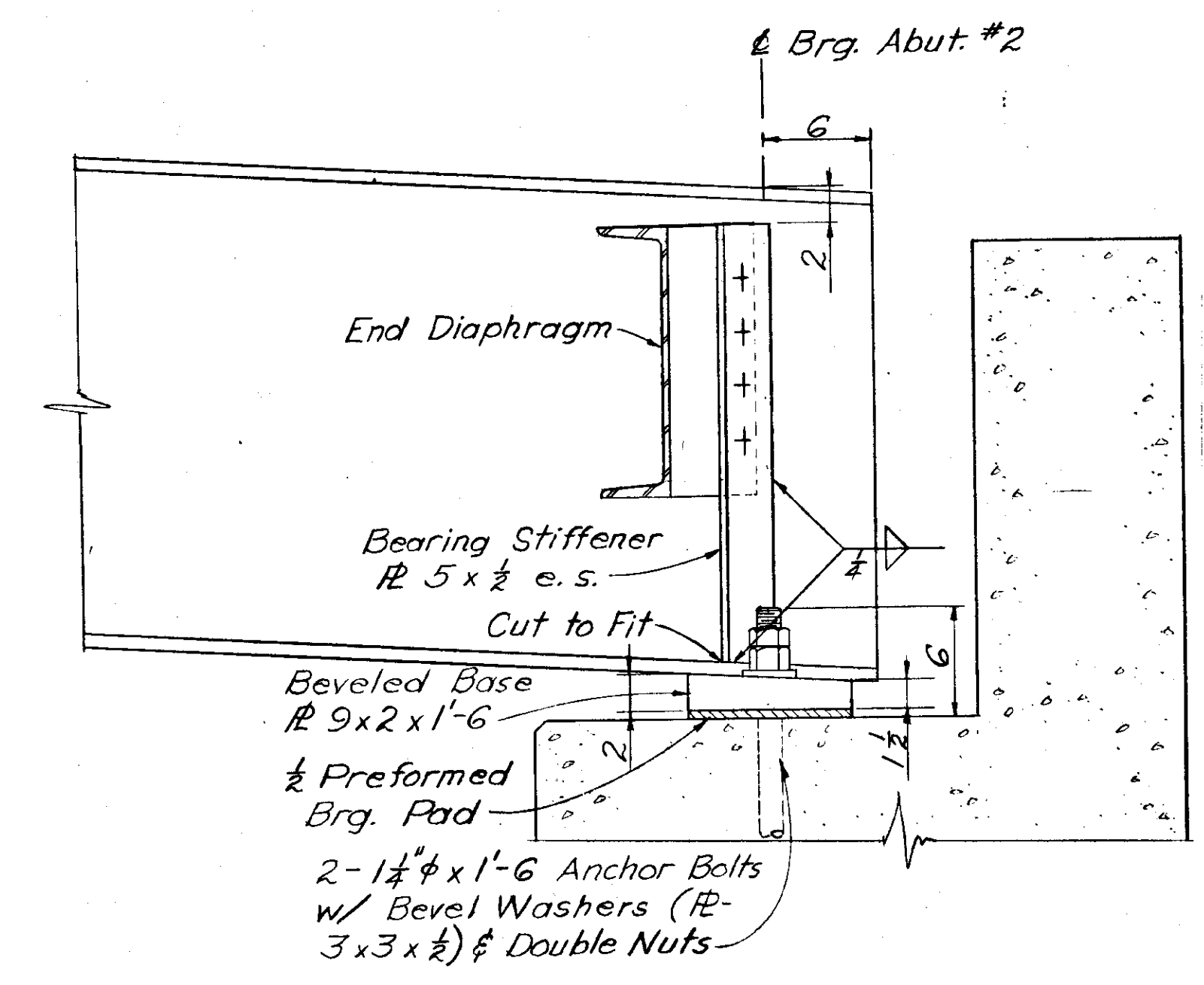
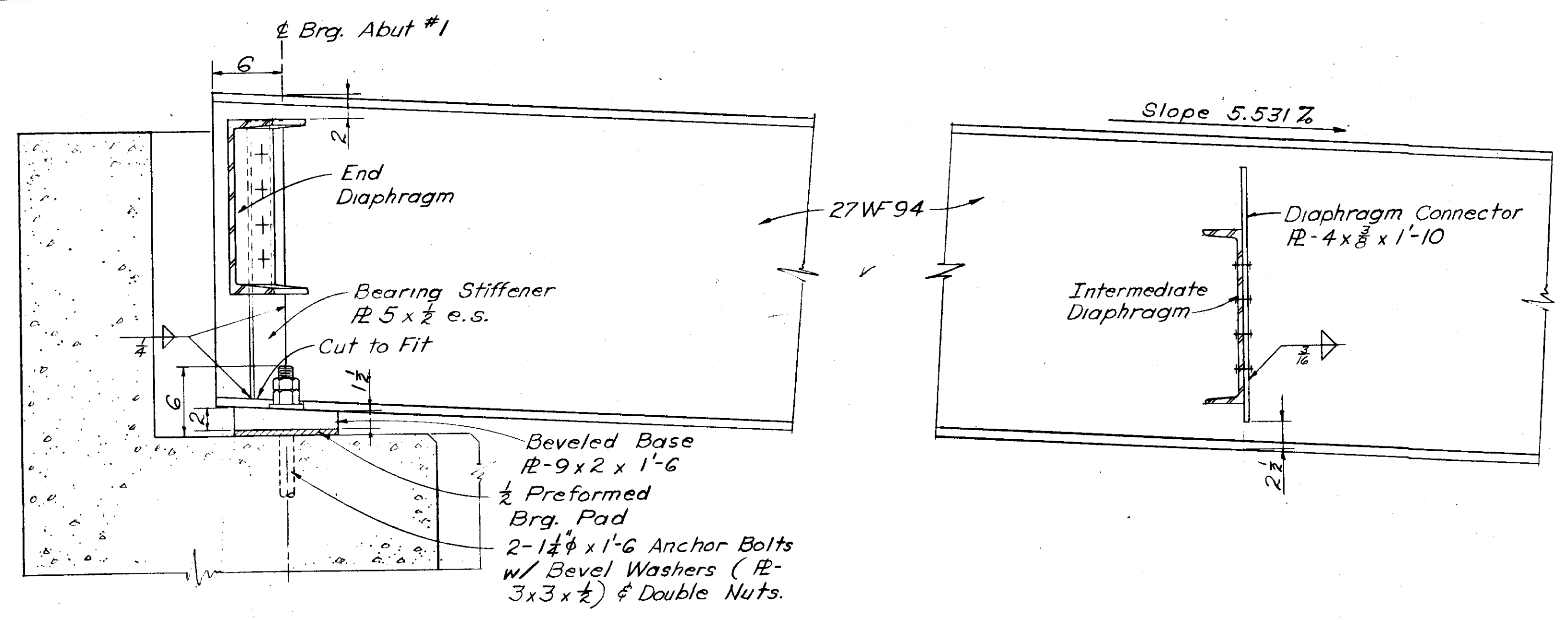
Scale As Noted BRIDGE NO. 743

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska

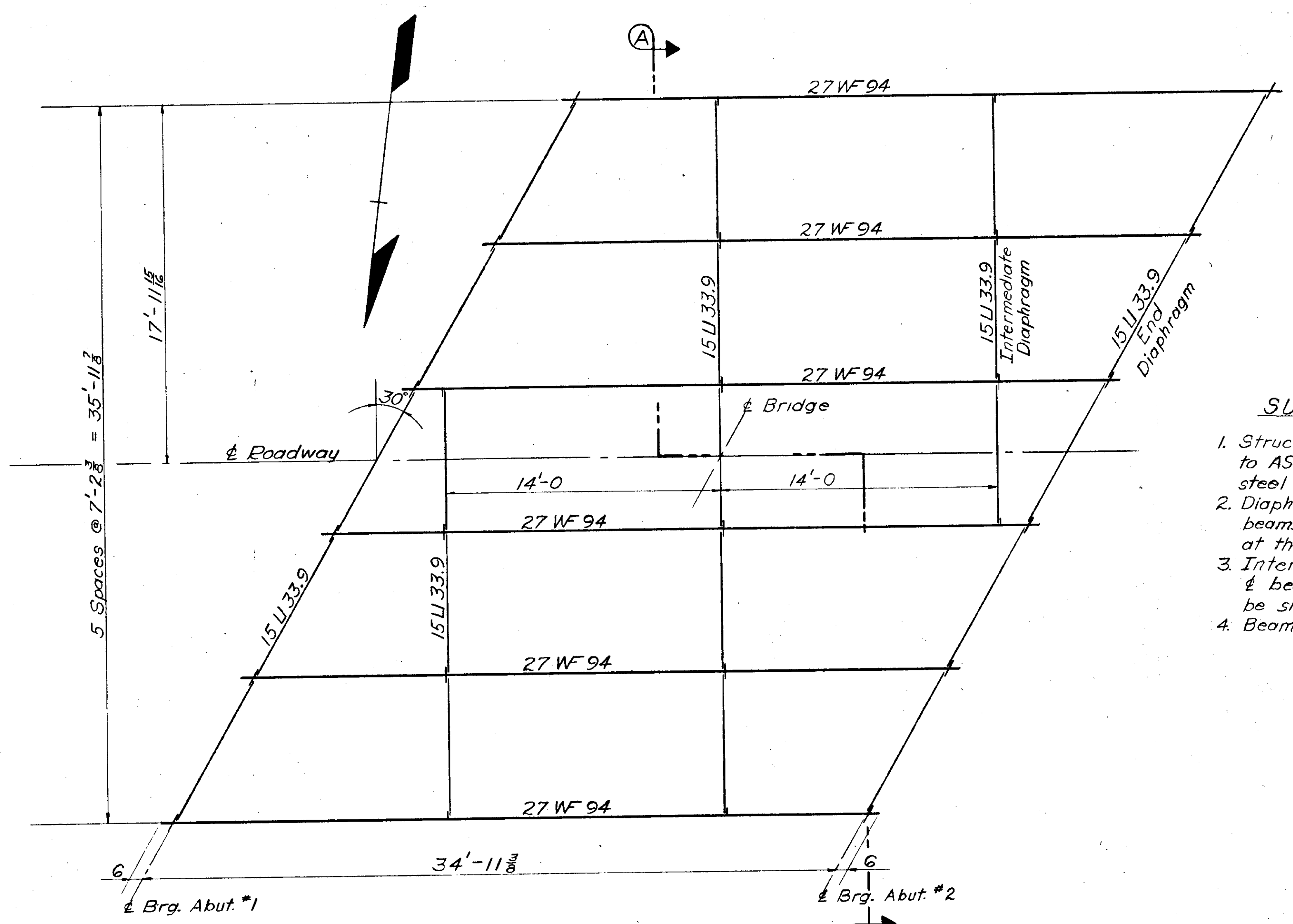
REVISIONS		
No.	Date	Description

Date _____
Approved _____



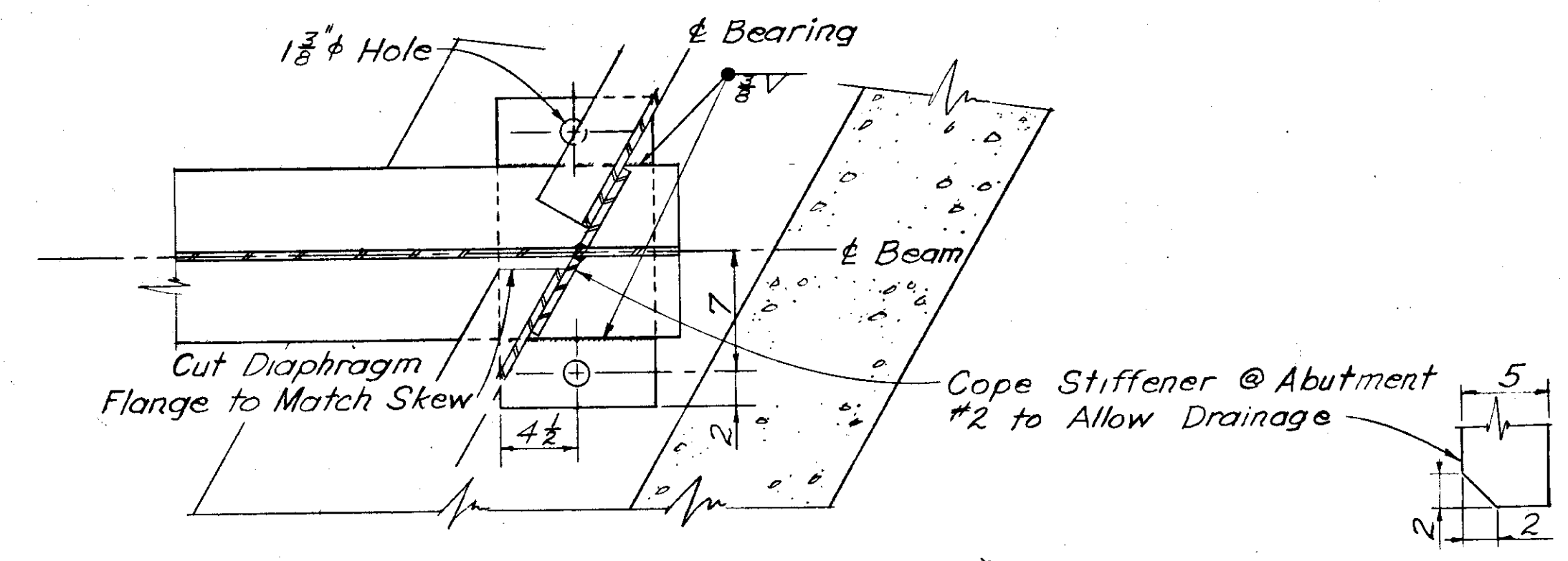


TYPICAL BEAM ELEVATION
Scale 1/2" = 1'-0"

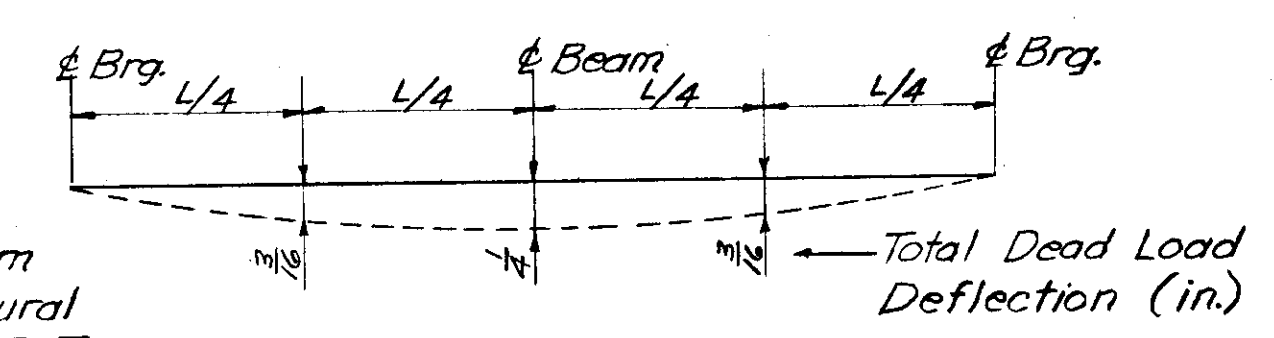


FRAMING PLAN
Scale 1/4" = 1'-0"

NOTE: See drwg. 599 for Section A-A



BEARING PLAN (TYP EACH ABUT)
Scale 1/2" = 1'-0"



DEFLECTION DIAGRAM
No Scale

NOTE: Deflection due to deck slab, curb & rail is 85% of the total dead load deflection.

SUPERSTRUCTURE NOTES

1. Structural steel for 27W94 beams shall conform to ASTM designation A-440-59T. All other structural steel shall conform to ASTM designation A-7-58T.
2. Diaphragm connectors, bearing stiffeners & ends of beams shall be vertical when the beams are set at the slope shown above.
3. Intermediate diaphragms shall be perpendicular to & beams & set level. End diaphragms shall be skewed & sloped to match & Bearing Abuts.
4. Beams shall be fabricated with natural camber up.

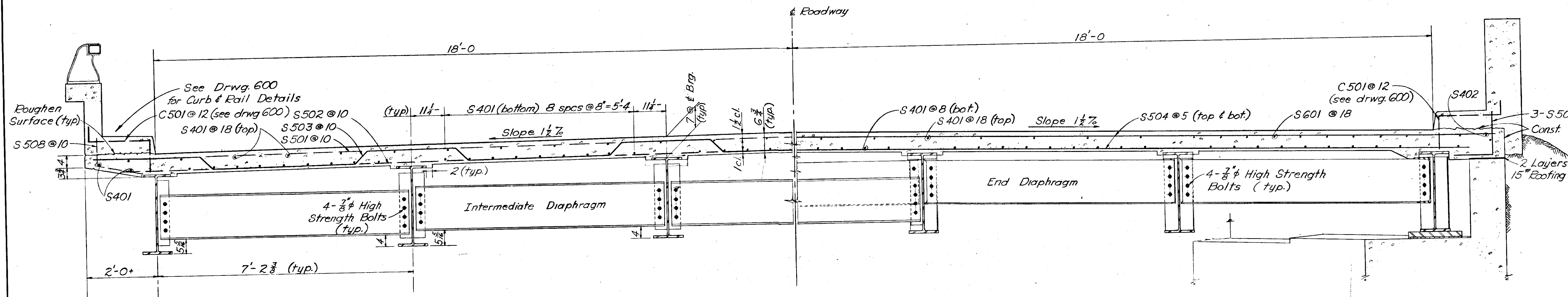
Note: No changes this sheet

MUNCASTER CREEK
ROUTE NO. F-95
SUPERSTRUCTURE DETAILS #1
(35' Steel Beam)

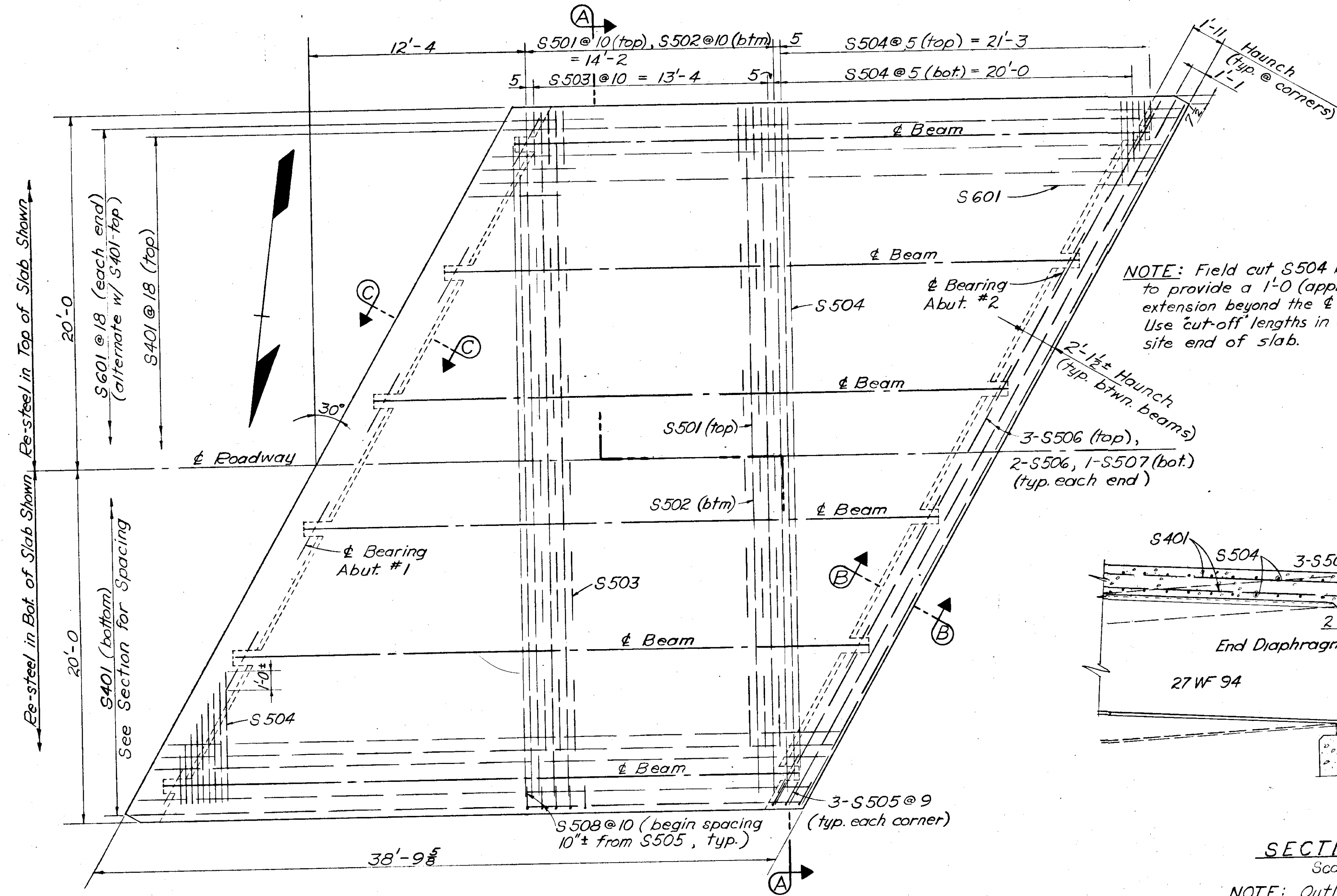
Scale As Shown BRIDGE NO. 743

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska

Checked by: FL Date: 3-61
Drawn by: [unclear] Date: [unclear]
Traced by: [unclear] Date: [unclear]



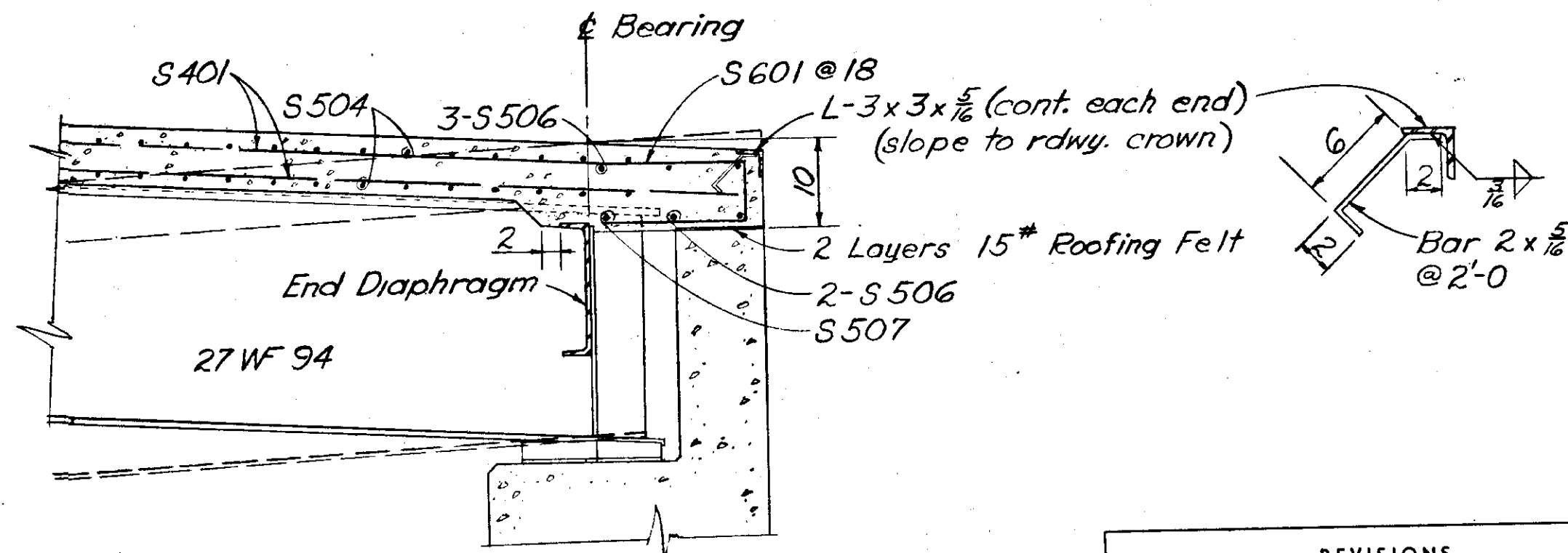
TRANSVERSE SECTION A-A (⊥ TO DECK SLOPE)
Scale 3/4" = 1'-0"



PLAN
Scale 3/4" = 1'-0"

SLAB REINFORCING STEEL					Bending Diagrams	
No.	Size	Length	Mark	Type		
18	#5	39-6	S501			
18	#5	38-0	S502			
17	#5	41-0	S503	Bent		
101	#5	40-0	S504			
12	#5	2-9	S505	Bent		
10	#5	45-6	S506			
10	#5	7-0	S507			
82	#5	2-0	S508	Bent		
75	#4	38-3	S401			
46	#4	8-0	S601	Bent		

Note: No changes this sheet.



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

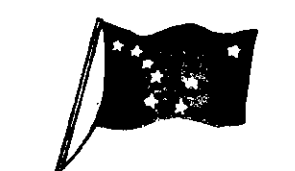
NOTE: Outline of Section C-C is shown in dashed lines. Details for this Section are similar.

REVISIONS		
No.	Date	Description

MUNCASTER CREEK
ROUTE NO. F-95
SUPERSTRUCTURE DETAILS #2
(Deck)

Scale As Shown BRIDGE NO. 743

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska



Date _____ Approved _____
Sheet _____ of _____ DWNG. NO. 59

Designed By: R.L. Date: 3-61
Checked By: H.G. Date: 3-61
Drawn By: R.L. Date: 3-61
Traced By: _____ Date: _____

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	95		1961	10	16

Note (A) - Aluminum surfaces in contact with concrete or steel shall be thoroughly coated with an aluminum impregnated calking compound

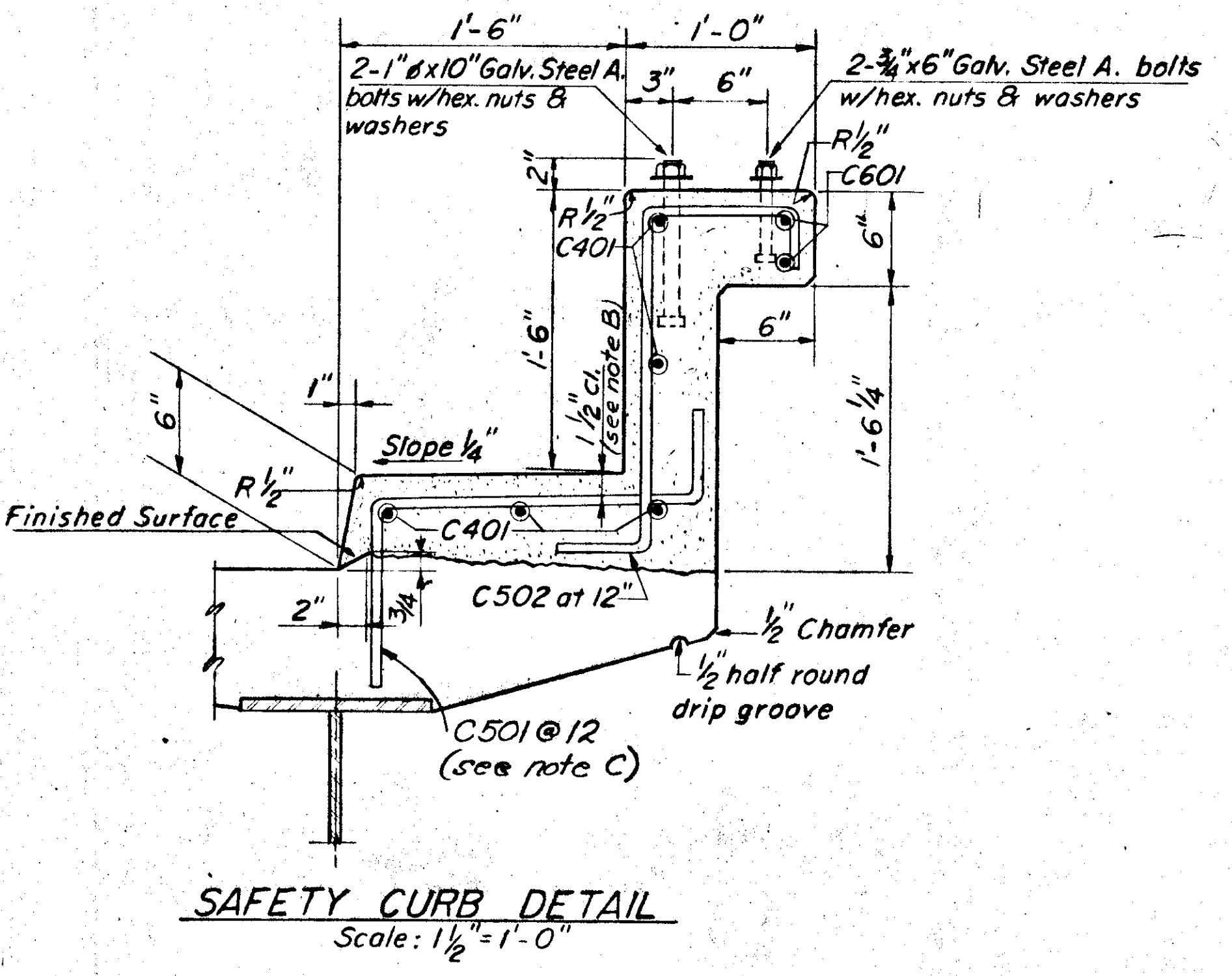
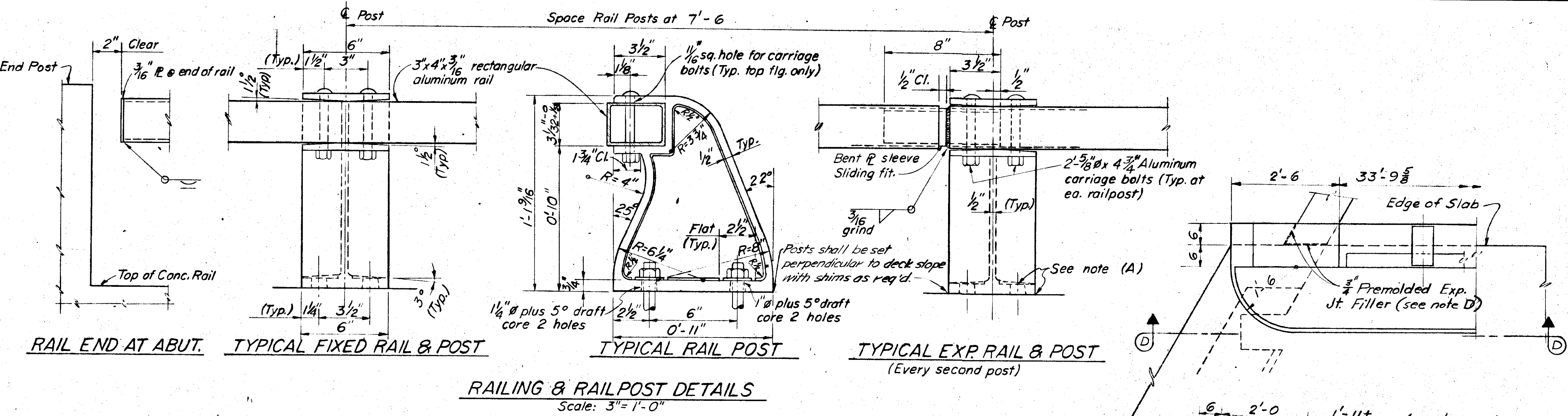
Note (B) - The concrete protective covering for reinforcement shall be one inch except as noted.

Note (C) - Field bend C401 & C501 to fit curve at ends of curbs.

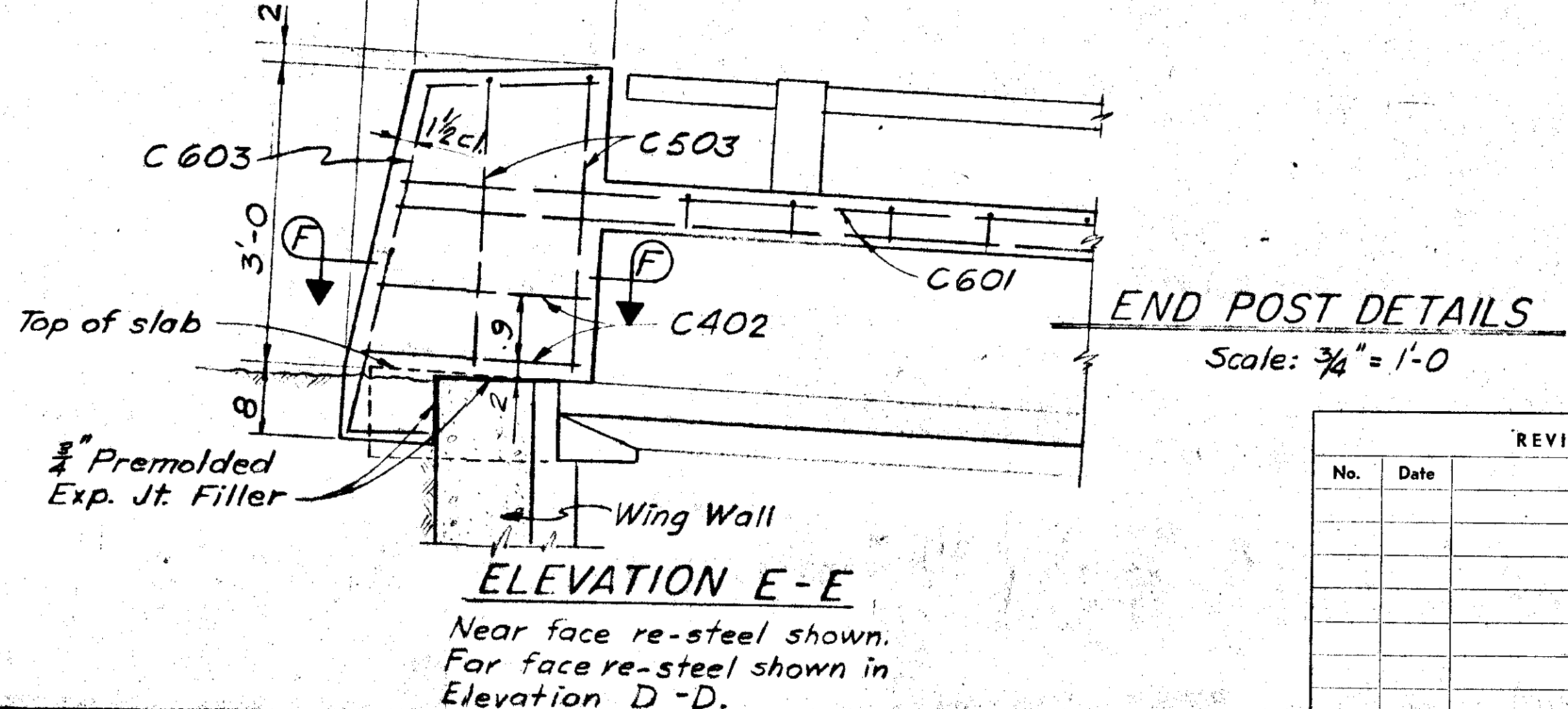
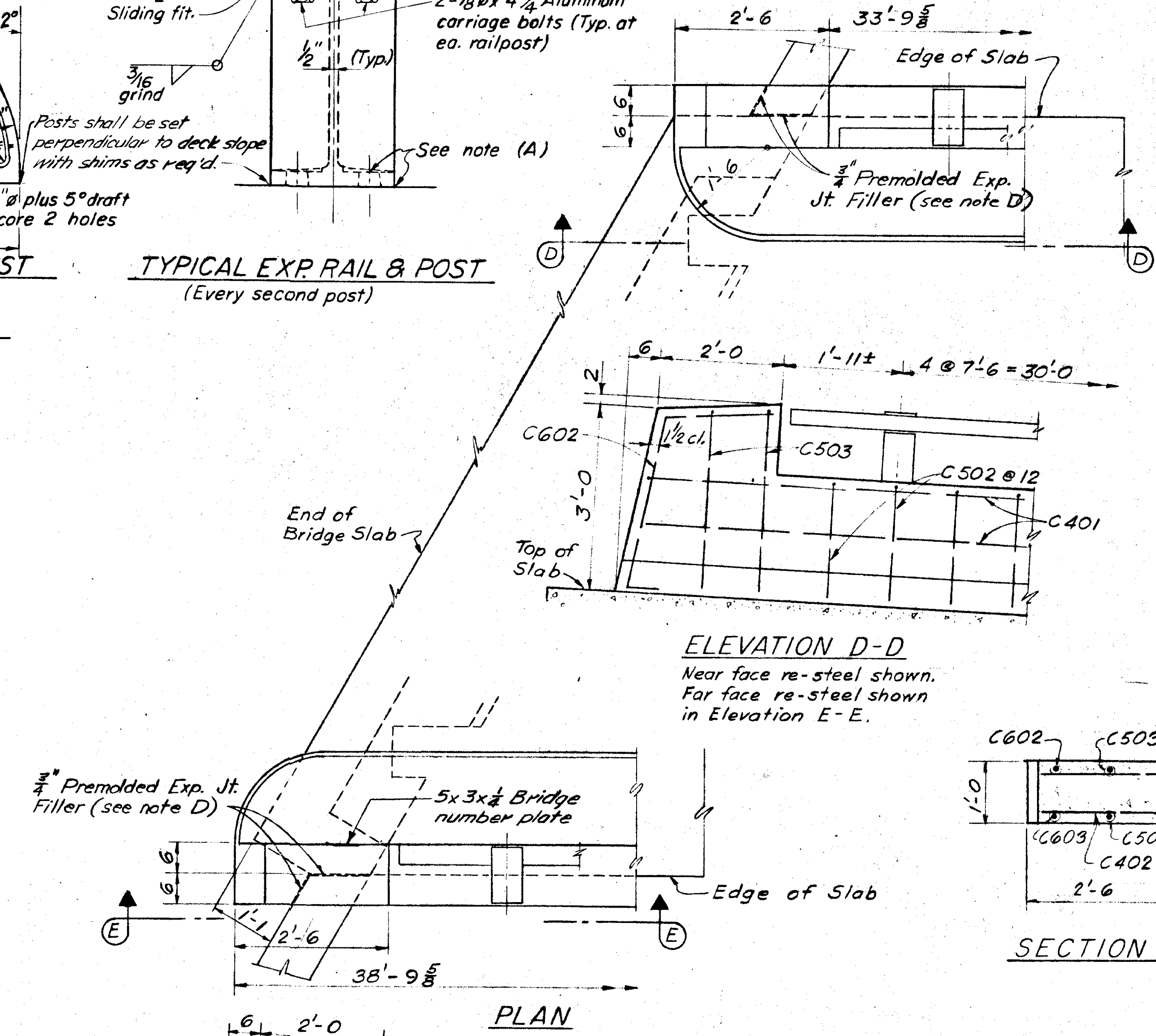
Note (D) - Place $\frac{3}{4}$ " premolded expansion joint filler in vertical joint between slab and wingwall and in horizontal and vertical joints between end post and wingwall.

Note (E) Bridge number plates (furnished by state) shall be placed on the end post facing approaching traffic at each end of the bridge. Set top of \mathcal{R} in line with top of concrete rail and flush with surface of end post.

Note: No changes this sheet



LOCATION	NO.	SIZE	LENGTH	MARK	TYPE
Curb	10	4	38'-0"	C401	
	78	5	3'-0"	C501	Bent
	66	5	3'-6"	C502	Bent
	4	6	38'-0"	C601	
	8	4	2'-2"	C402	
End Post	8	5	6'-8"	C503	Bent
	4	6	5'-5"	C602	Bent
	4	6	6'-2"	C603	Bent
	10	10	2'-10"	C602 & C603	



REVISIONS		
No.	Date	Description

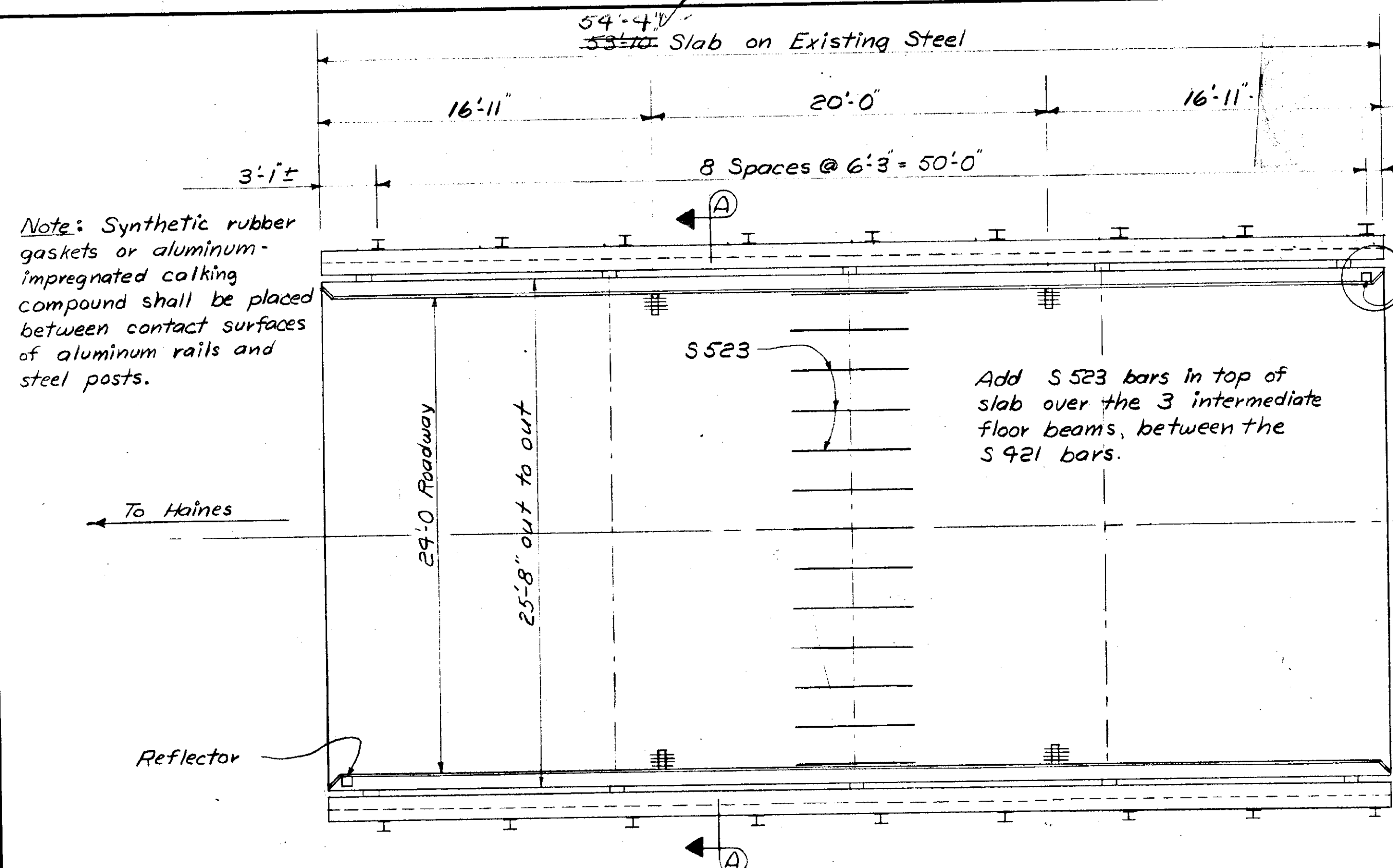
MUNCASTER CREEK
ROUTE NO. F-95
SUPERSTRUCTURE DETAILS 3
(Curb and Rail)

Scale As Shown BRIDGE NO. 743

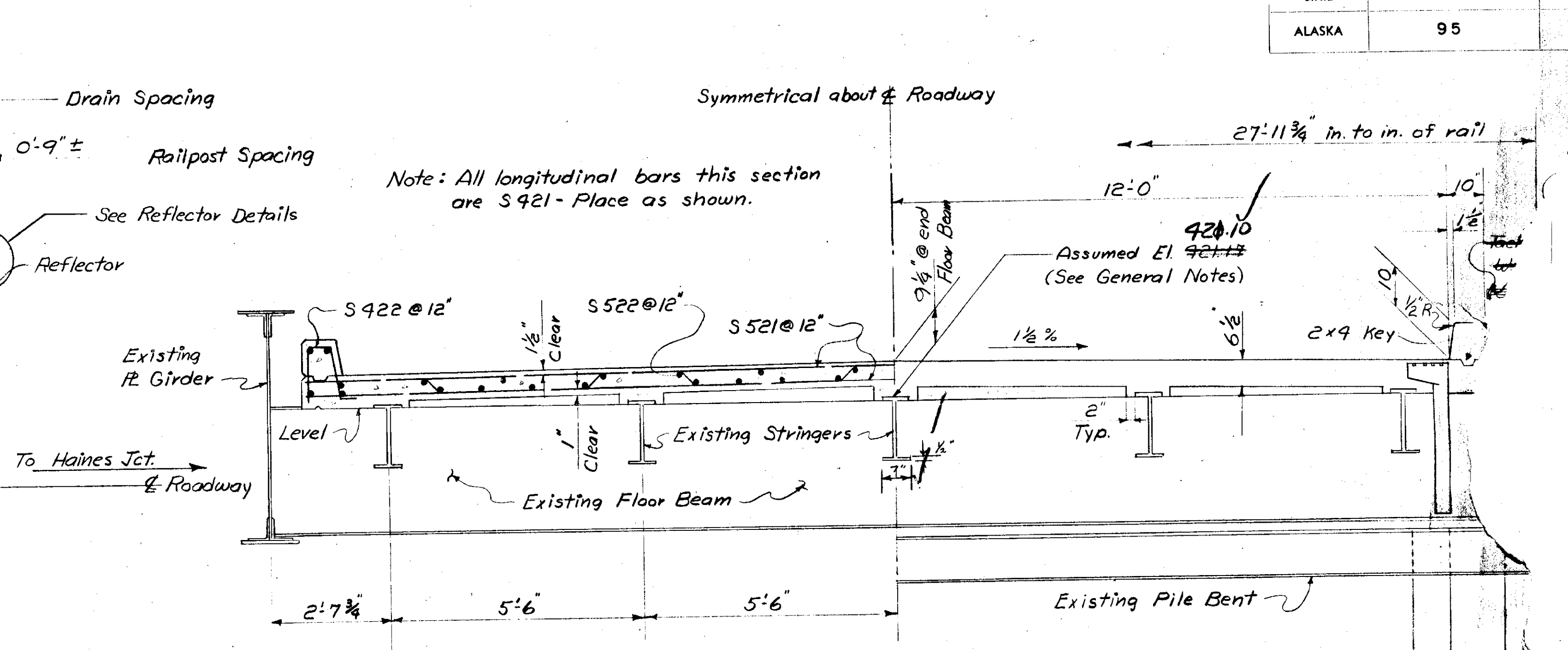
Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska

Date: _____
Approved: _____

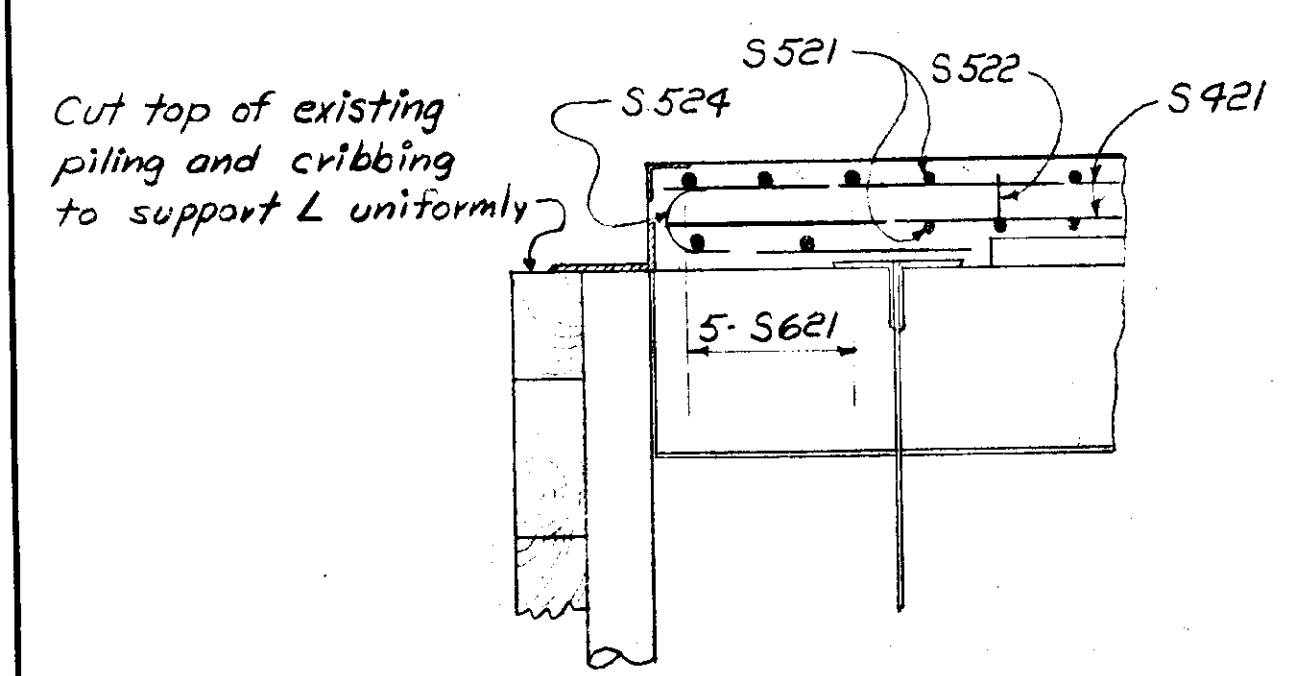
Sheet _____ of _____
DWNG. NO. 600



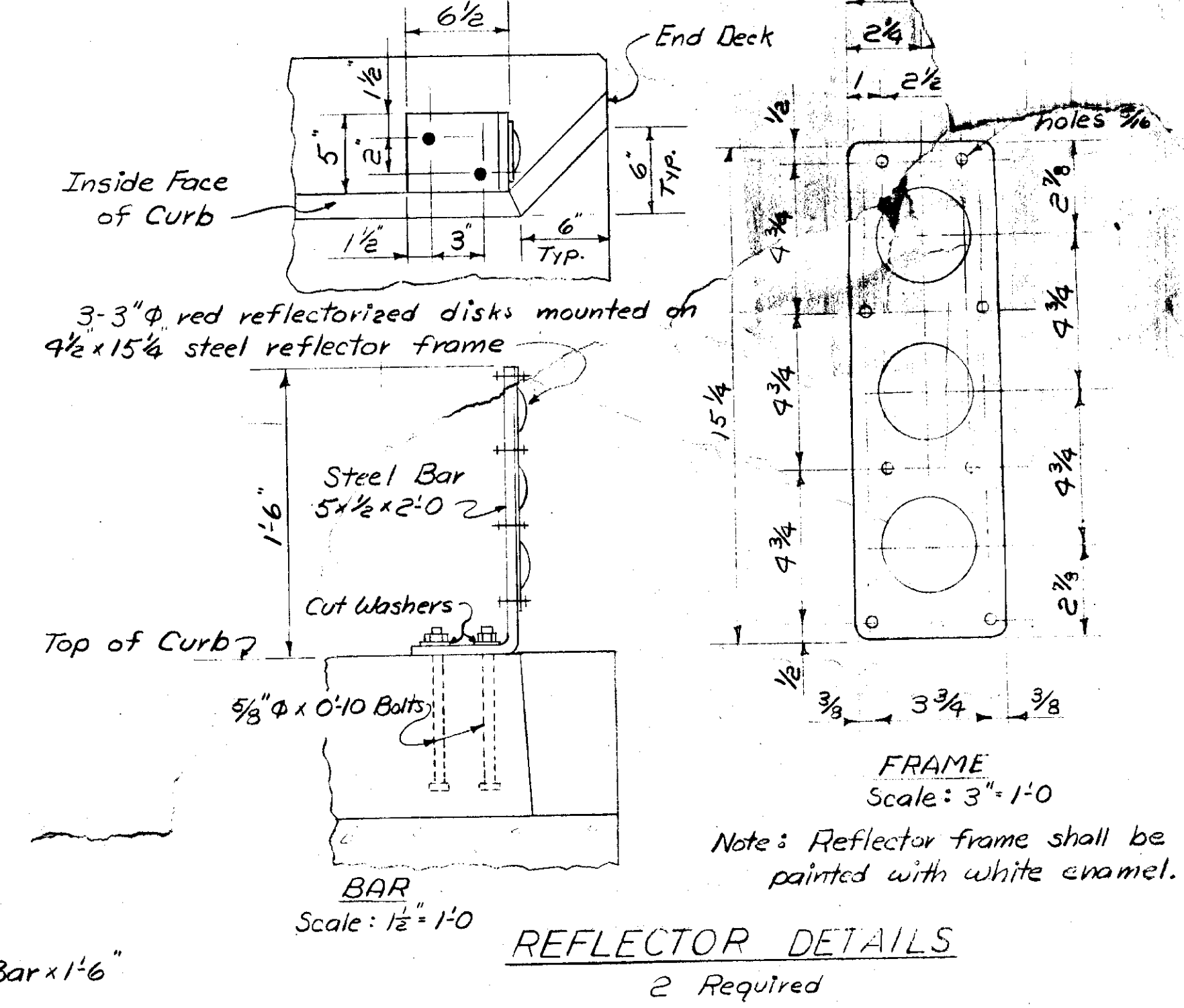
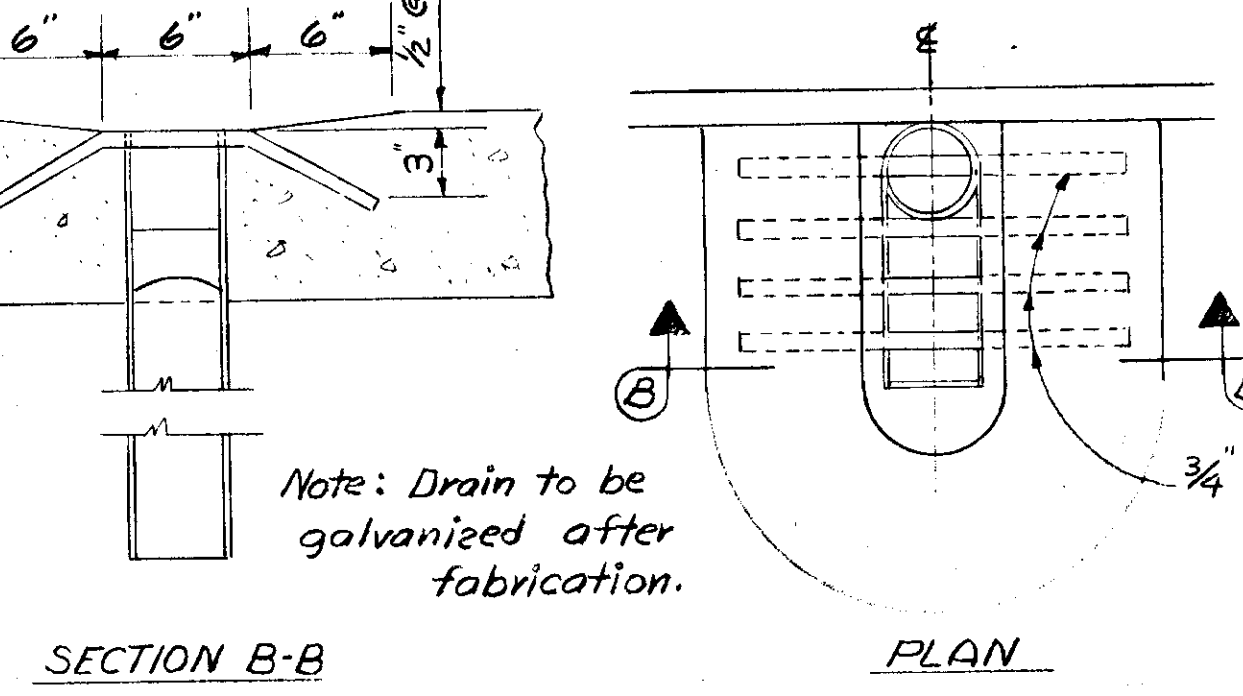
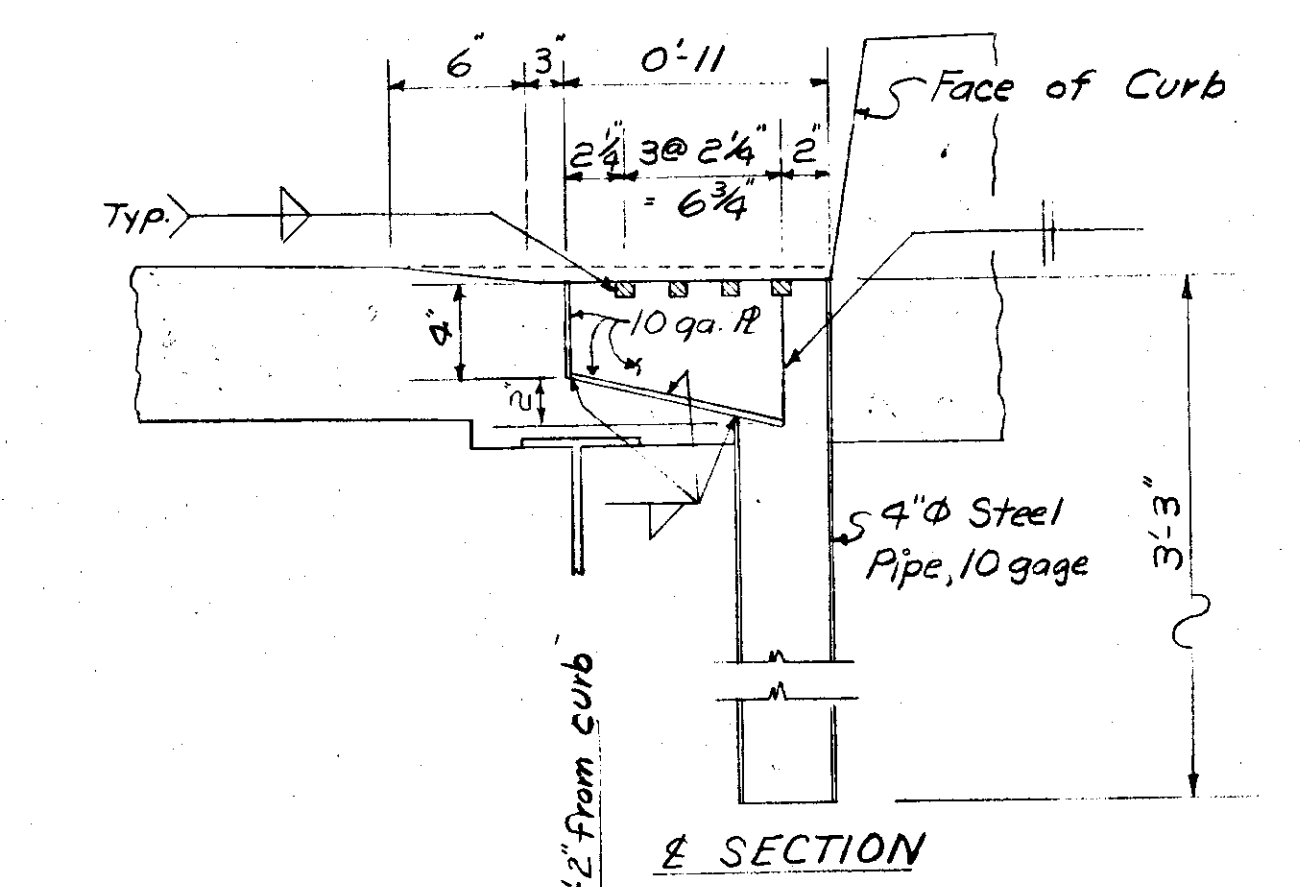
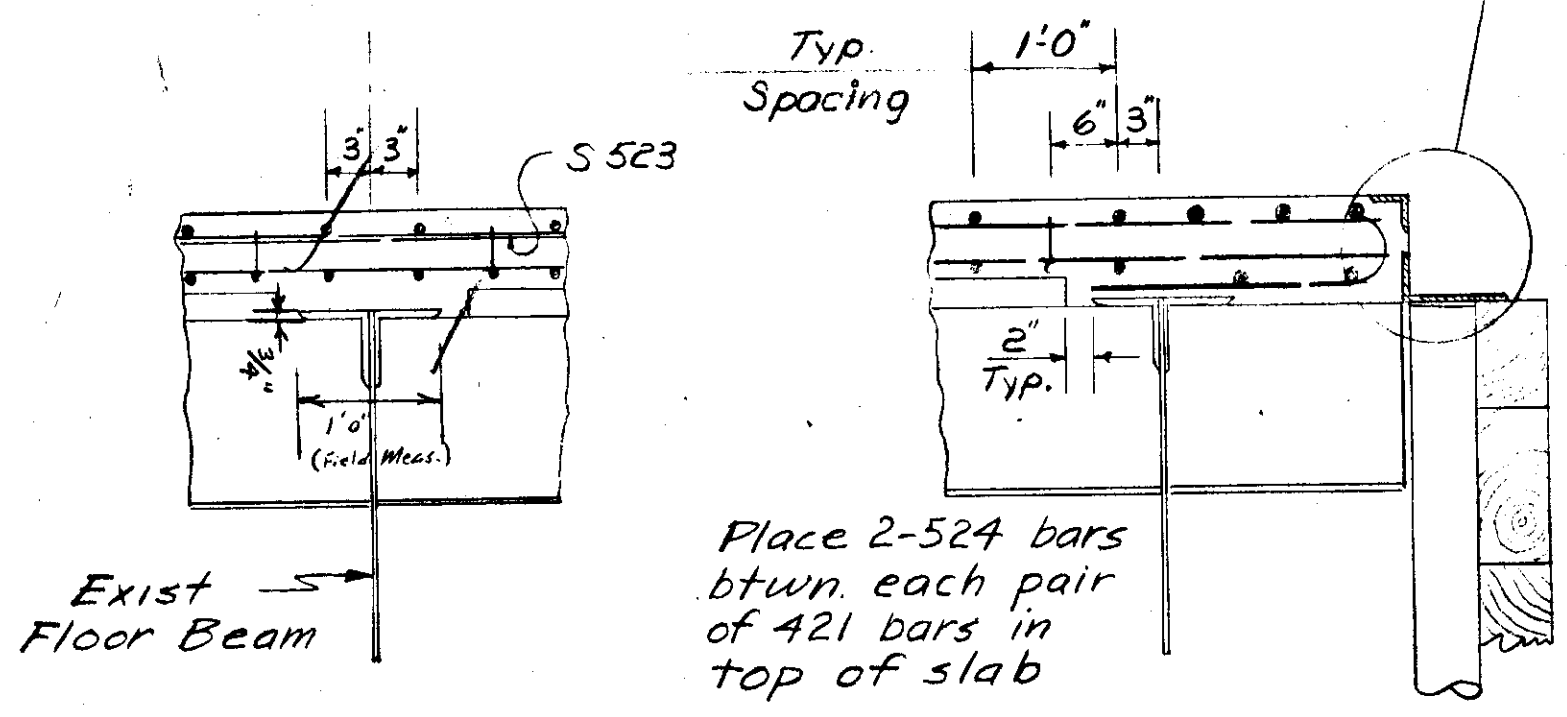
DECK PLAN
Scale: 1" = 5'-0"



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



PART LONGITUDINAL SECTION
Scale: 3/4" = 1'-0"

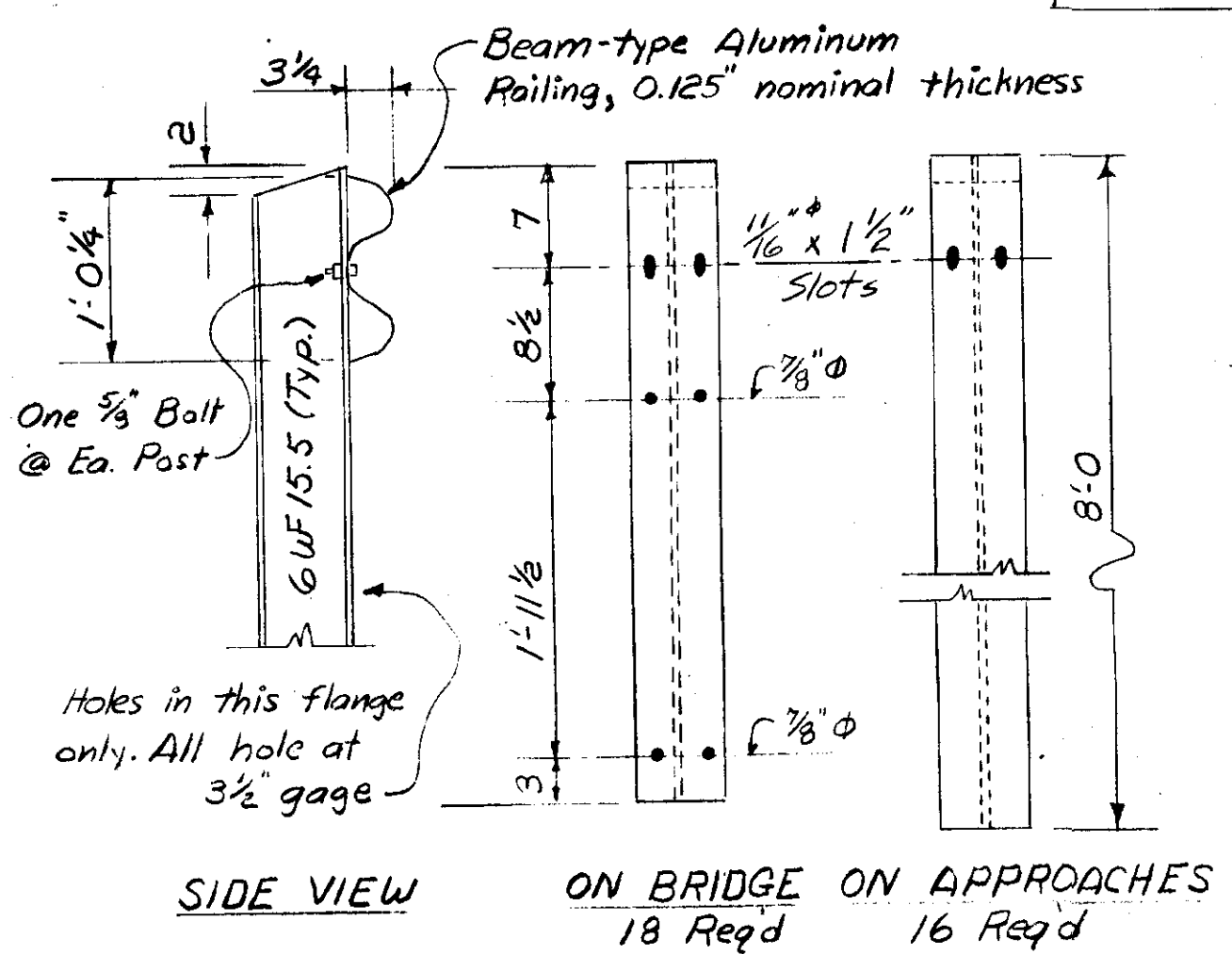


LITTLE BOULDER CREEK
ROUTE NO. F-95
SUPERSTRUCTURE DETAILS

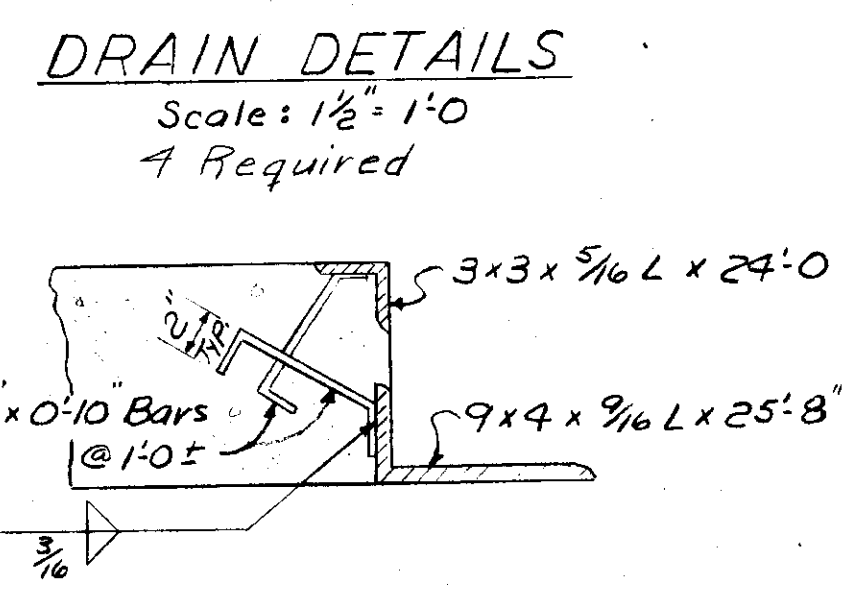
SCALE AS SHOWN BRIDGE NO. 744

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska

SLAB REINFORCING STEEL				
Mark	Size	Number	Length	Type
S 921	# 4	76	27'-3"	Str.
S 922	# 4	108	3'-6"	Bent
S 521	# 5	102	25'-3"	Str.
S 522	# 5	50	26'-3"	Bent
S 523	# 5	39	6'-0"	Str.
S 524	# 5	52	5'-6"	Bent
S 621	# 6	10	25'-3"	Str.



RAILPOST DETAILS
Scale: 1" = 1'-0"



DRAIN DETAILS
Scale: 1/2" = 1'-0"
1 Required

REVISIONS		
No.	Date	Description