STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-3(6)	1964	2	30

AS BUILT

SUMMARY SHEET

SUMMARY OF APPROACHES

Station	Lt. or Rt.	D-1 TON	TYPE I TON	TYPE II TON	GUARD-RAIL Lin. Ft.	Remarks
"As B" 17+70	Lt.	22		22		TYPE 2A
18+40	Rt.	22		22		2A
"Le" 23+00	Lt.	192	6766	192		TYPE 2A ACCESS ROADS Lt & Rt.
"L" 6+00 to 8+00	Rt.	725	16,156	725		Parking Area
8+40	Lt.	123	1122	123	562.5	2B
8+40	Rt.	100	900	100		2A
13+50	Rt.	22	100	22		2A
17+00	Lt.	22		22		2A
20+75	Lt.	22		22		2A
20+75	Rt.	22		22		2A
23+00	Lt.	106	848	106		2B
24+50	Lt.	22		22		2A
24+50	Rt.	22	30	22		2A
26+23	Rt.	22	50	22		2A
26+23	Lt.	46	52	46		2B 3A
"L" 29+00	Rt.	22	38	22		2A
TOTAL	—	1512	26,062	1512	562.5	—

SUMMARY OF SIGNS

Station	℄ Dist. Lt.	℄ Dist. Rt.	Sign No.	Type of Sign
"As B" 17+00		22	WI-2L	Curve
"L" 6+30	22		WI-2R	Curve
22+50		22	WI-2R	Curve
22+75	22		RI-1	Stop
"L" 34+00	22		WI-2L	Curve
TOTAL	—	—	—	5 Signs

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
100(3)	6	Acre	Clearing and Grubbing
102(1)	12,800	Cu. Yd.	Unclassified Excavation
102(7I)	100,000	Ton	Selected material, Type I borrow, Case 2
102(7IA)	9,000	Ton	Selected material, Type II borrow, Case 2, grading B
102(7IB)	6,000	Ton	Selected material, Type III borrow, Case 2
103 (1)	525	Cu. Yd.	Excavation for Structures
200(4)	7,350	Ton	Crushed Aggregate Base, Grading D-1
310 (3)	6,000	Gal.	Asphalt, grade MC.-70, prime coat
314 (4)	240	Ton	Aggregate, designation E-70, bituminous surface treatment
314 (15)	5,500	Gal.	Cationic Emulsified asphalt, grade RS-3K, bit. surface treat.
322(1)	2,100	Ton	Hot bituminous concrete pavement
322(2)	32,000	Gal.	Asphalt cement 120-150 penetration
453(2G)	274	Lin. Ft.	24" bituminous-coated corr. metal pipe
453 (2I)	100	Lin Ft.	36" bituminous-coated corr. metal pipe
454(2G)	250	Lin Ft.	50"x 31" bituminous-coated corr. metal pipe arch
454(2H)	164	Lin Ft.	58"x 36" bituminous-coated corr. metal pipe arch
454(2I)	208	Lin Ft.	65"x 40" bituminous-coated corr. metal pipe arch
454(2J)	86	Lin. Ft.	72"x 44" bituminous-coated corr. metal pipe arch
457 (1)	626	Lin. Ft.	Removal of culverts
560 (1)	24	Each	Right-of-way monuments
560 (3)	16	Each	Culvert marker posts
560 (4)	4	Each	Timber guide posts
583 (1)	562.5	Lin. Ft.	Beam-type guardrail
584 (1)	5	Each	Standard Signs

LIST OF CULVERTS

Station	Ht of Cover	Type II Tons	Structure Excavation Cu. Yd.	C.M.P. 24" L.F.	C.M.P. 36" L.F.	C.M.P.A. 50"x31" L.F.	C.M.P.A. 58"x36" L.F.	C.M.P.A. 65"x40" L.F.	C.M.P.A. 72"x44" L.F.	Marker Posts Each	Culvert Removal L.F.	Remarks
~~"As B" 16+75~~											58	
"As B" 16+90		46	41	~~132~~ 160						2		
"As B" 18+40				42							30	
"As B" 19+25		52	39			76				2		
"Le" 23+00		50		60						2		
"L" 12+55		156	11					208		2	132	
13+35											62	
"L" 14+39	Under 10'		27		100					2		Ditch in & Out
16+46		80	92						86	2		Ditch in & Out
17+70											58	
"L" 25+43 ~~25+68~~		58	111				82			2		Ditch in & Out
"L" 25+53 ~~25+78~~		58	111				82					Ditch in & Out
26+20											152	
27+65		56	63			84				2	62	Ditch in & Out
29+00				40							24	
"L" 31+15						90					48	
"L" 20+06				80						2		
Total		556	495	~~274~~ 382	100	250	~~164~~ 163.5	208	86	~~76~~ 18	626	

GENERAL NOTES

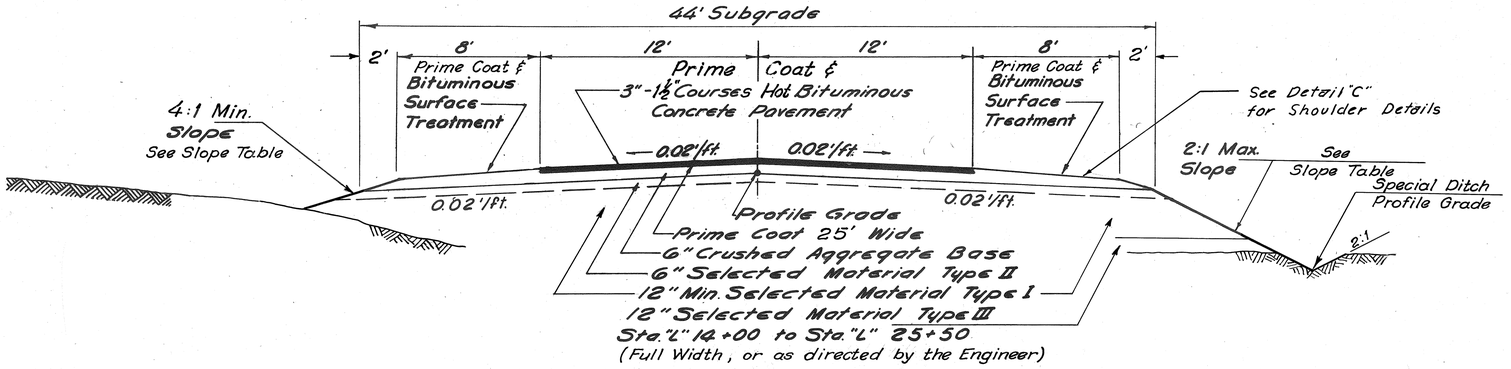
1. Culvert lengths are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. All fences and other miscellaneous encroachments within the Right-of-Way shall be removed as directed by the Engineer. Payment for this item shall be considered a subsidiary obligation of the Contractor for work done under Section 100.
4. Roadway to Bridge and Bridge to Roadway Typical Section Transitions shall be accomplished in the adjacent 0.5 Station of the Roadway.
5. Obliteration of old roadway shall require the removal of all of the existing embankment to the original ground level. The material thus obtained shall be used in the construction of the parking area or as directed by the Engineer. It is estimated that 10,300 Cu. Yds. will be available for construction of embankment.
6. All waste material from unclassified excavation or obliteration of old roadways shall be disposed of by the Contractor outside the right-of-way limits as approved by the Engineer. The Contractor shall make all the arrangements, financial and otherwise, in securing waste areas and shall assume full responsibility for the disposal of waste materials, including the haul of such material to the waste areas, at no extra cost to the state.
7. Guard Rail Terminal Ends shall be of a type similar to that shown in the "Parking Area" details.
8. Paving on approaches will only be carried to the radius point.
9. Balances found on P&P Sheets include the selected Material Type II & Type I quantities from the Summary Sheet

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(6)	1964	3	30

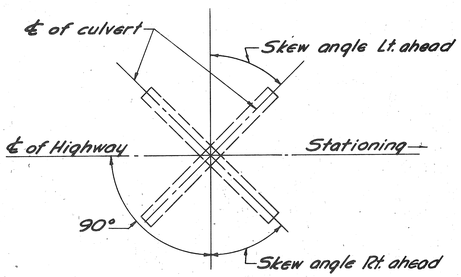
REVISIONS		
No.	Date	Description

AS BUILT

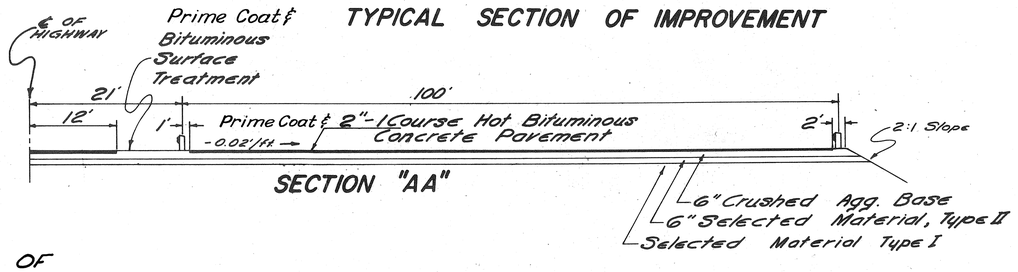
TABLE OF SLOPES	
0-5'	4:1
5'-10'	3:1
Over 10'	2:1



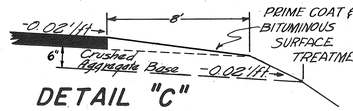
TYPICAL SECTION OF IMPROVEMENT



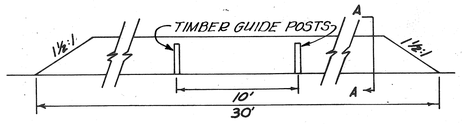
SKEW ANGLE

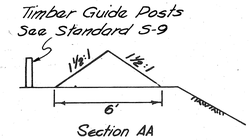


SECTION "AA"



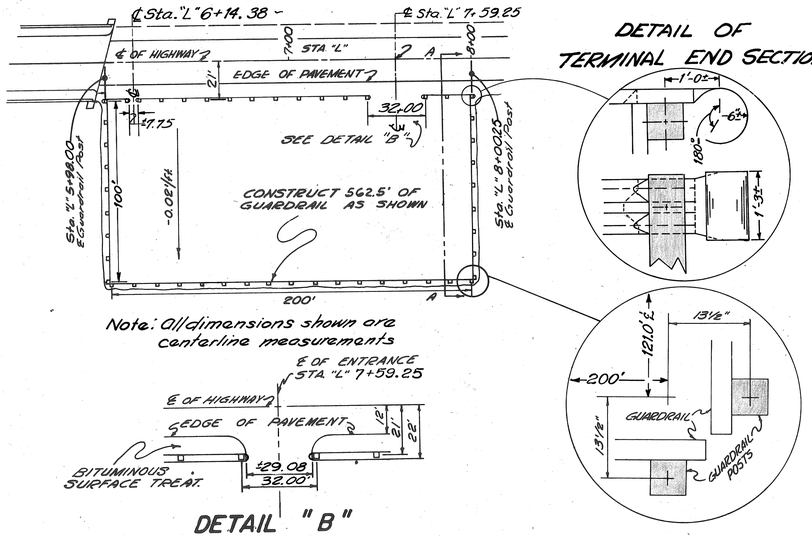
DETAIL "C"





Note: Earth Barricades shall be constructed of useable material from the old road. No measurement will be made for this item and it shall be considered a subsidiary obligation of the Contractor for work performed under Section 102.

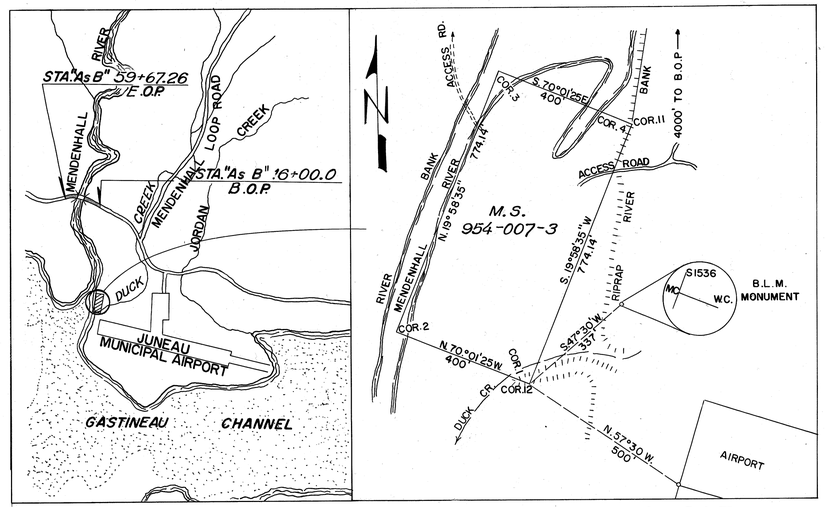
EARTH BARRICADE 70
250' Lt. STA. "L" 20+~~60~~ 2 GUIDE POST INSTALLED
135' Lt. STA. "L" 24+~~60~~ 50 " " "



DETAIL "B"

DETAIL OF TERMINAL END SECTION

PARKING AREA RIGHT STA. "L" 5+98.00 - STA. "L" 8+00.25



STATE CONTROLLED MATERIAL SOURCE

REVISIONS		
No.	Date	Description

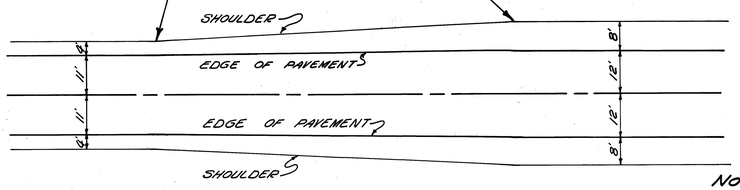
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(6)	1964	4	30

AS BUILT

STA. "As B" 16+00= BEGINNING OF PROJECT F-095-8 (6) STA. 16+00

Begin Transition Sta. "AsB" 16+00

End Transition Sta. "AsB" 17+00



"AsB" 16+22 Remove 58' C.M.P.

"AsB" 16+90 Install twin 24"x66' C.M.P.'s

"AsB" 17+70 Install Type 2A Approach Lt.

"AsB" 18+40 Install Type 2A Approach Rt. Remove 30' CMP. Install 24"x42' C.M.P. 19+72

"AsB" 19+25 Install 50"x31"x 76' C.M.P.A.

"L2" 23+00 Construct Type 2A Approaches & Access Rds. Lt & Rt. as shown on plans

Install 24"x 60' C.M.P. Rt. INV. ELEV. 22.2

"L2" 24+62.32 P.T. Ah.

"L" 6+00 - 8+00 Construct Parking Area Rt. See Sheet 2 for details

"L" 8+40 Construct Type 2B Approach Lt. Construct Type 2A Approach Rt.

Construction Easement

Construction Easement

Ditch out for drainage N 77°13'50" W ~ 2472.82'

Natural Drainage

Obliterate Old Road and use existing embankment in Parking Area and/or as directed by the Engineer.

"AsB" 21+04.89 P.O.T. Bk. = "L2" 21+04.89 P.C. Ahd.

Δ = 14°17'50"
D = 4° Lt.
T = 179.65'
L = 357.43
S = 0.06'/ft

R.O.W. N62°56'W ~ 504.89'

R.O.W.

SPECIAL DITCH 16+22 TO CULVERT 17+82

SPECIAL DITCH 18+50 TO 20+50

SPECIAL DITCH 20+00 to 3+00-Const. Special Ditch, Rt.

Construction Easement

"L2" 22+84.54 P.I.

Obliterate Old Road

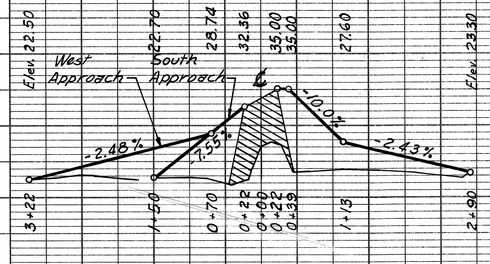
MENDENHALL RIVER

Note: Begin super transition at Sta. "AsB" 19+71.56. End super transition at station "L" 2+73.49. P.C. Sta. "AsB" 21+04.89 and P.T. Sta. "L2" 24+62.32 are points at 2/3 full superelevation.

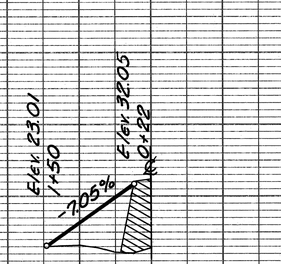
Uncl. Excavation	Cu. Yd.	3,317 ①
Embankment	Cu. Yd.	16,555
Sel. Mat. Type I	Ton	31,748
Sel. Mat. Type II	Ton	2,100
Sel. Mat. Type III	Ton	0
Clearing & Grubbing	Acre	0.64

① Includes 2,500 Cu. Yd. Waste

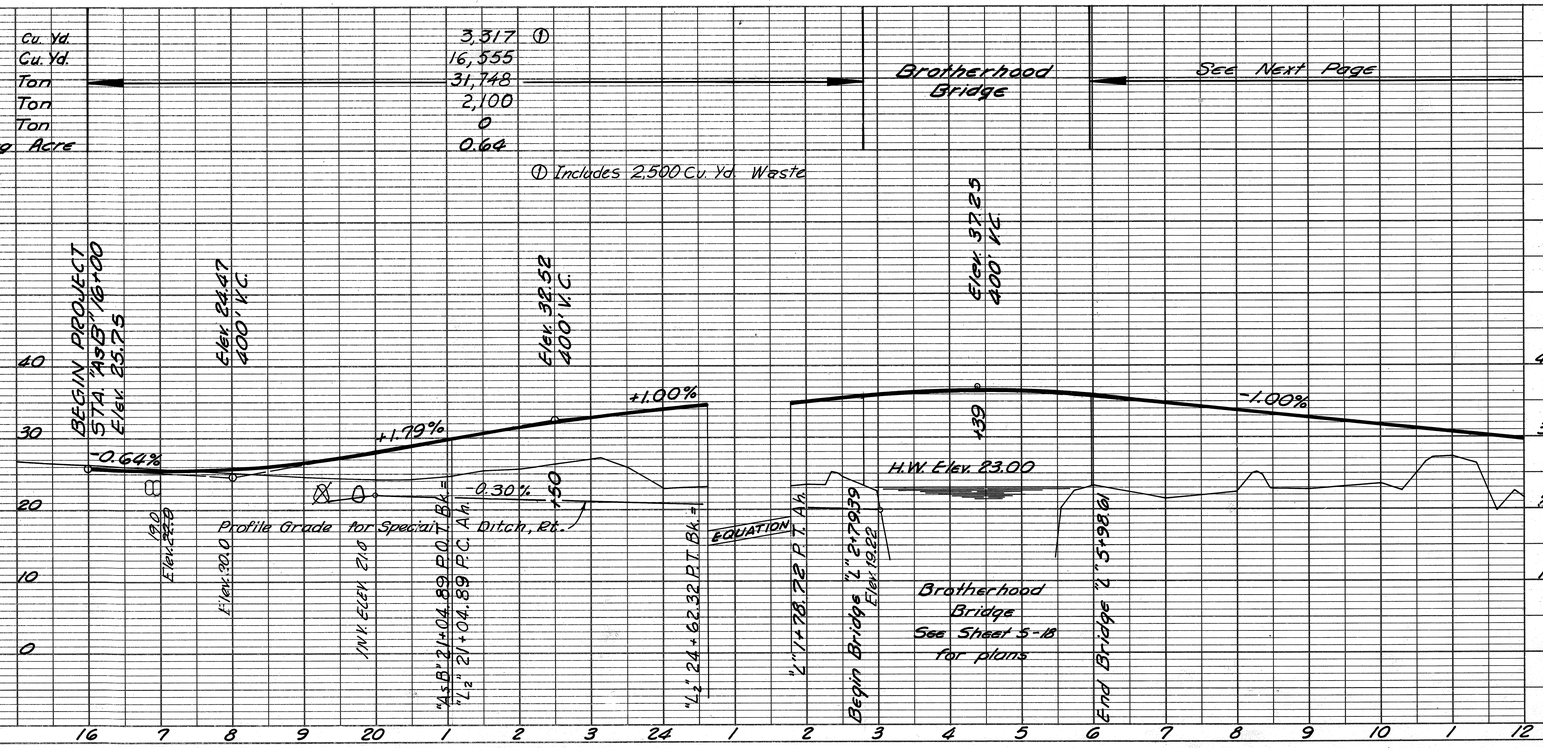
Embankment includes Sel. Mat. Type I + Sel. Mat. Type III +(Uncl. Exc. - Waste)(% Shrink)



TYPE 2B APPROACH AND ACCESS ROADS STA "L2" 23+00



TYPE 2B APPROACH LT. STA. "L" 8+40



NOTE: Vertical control based on B.P.R. B.M. - X on S.E. side of East Pier - Mendenhall River Bridge - Elevation 25.83
Horizontal control based on bearing of N 62°56' W between B.P.R. monuments at 12+70.43 P.I. and 16+12.5 P.T. Bk. = "AsB" 12+42.6 Ah.

PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
130M-5 ASEPROOF FILM—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

J-2

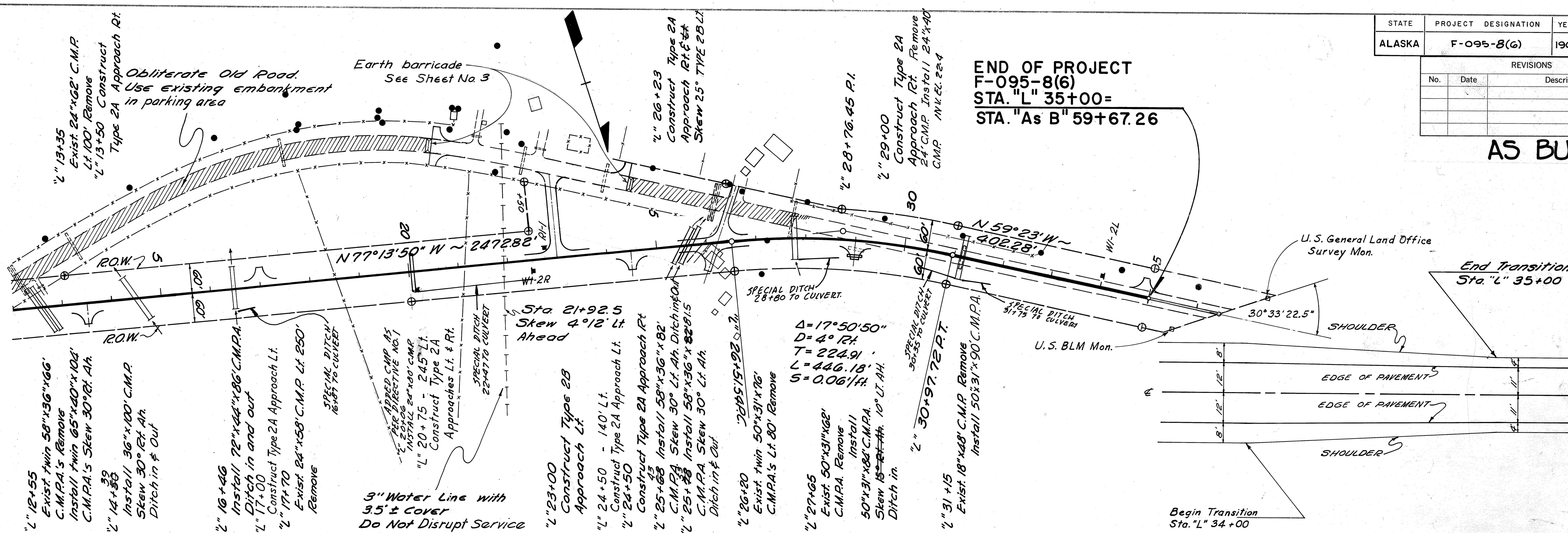
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(6)	1964	5	30

REVISIONS

No.	Date	Description

AS BUILT

END OF PROJECT
F-095-8(6)
STA. "L" 35+00=
STA. "As B" 59+67.26



Obliterate Old Road. Use existing embankment in parking area
"L" 13+35 Exist. 24"x62' C.M.P. Lt. 100' Remove
"L" 13+50 Construct Type 2A Approach Rt.
Earth barricade See Sheet No. 3
"L" 26+23 Construct Type 2A Approach Rt. & Lt. Skew 25° TYPE 2B LT.
"L" 28+76.45 P.I.
"L" 29+00 Construct Type 2A Approach Rt. Remove 24"C.M.P. Install 24"x40' C.M.P. INV. EL. 22.4
N77°13'50" W ~ 2472.82'
N 59°23' W ~ 402.28'
R.O.W.
U.S. General Land Office Survey Mon.
U.S. BLM Mon.
End Transition Sta. "L" 35+00
Begin Transition Sta. "L" 34+00
SHOULDER
EDGE OF PAVEMENT
30°33'22.5"
Sta. 21+92.5 Skew 4°12' Lt. Ahead
SPECIAL DITCH 28+80 TO CULVERT
SPECIAL DITCH 31+75 TO CULVERT
Δ=17°50'50" D=4° Rt. T=224.91' L=446.18' S=0.061'/ft.
"L" 26+51.54 P.C.
"L" 30+97.72 P.T.
"L" 12+55 Exist. twin 58"x36"x66' C.M.P.A.'s Remove Install twin 65"x40"x104' C.M.P.A.'s Skew 30° Rt. Ah.
"L" 14+39 Install 36"x100' C.M.P. Skew 30° Rt. Ah. Ditch in & Out
"L" 16+46 Install 72"x44"x86' C.M.P.A. Ditch in and out
"L" 17+00 Construct Type 2A Approach Lt.
"L" 17+70 Exist. 24"x58' C.M.P. Lt. 250' Remove
SPECIAL DITCH 16+89 TO CULVERT
ADDED CMP AS PER DIRECTIVE NO. 1 "L" 20+06 INSTALL 24"x80' CMP.
"L" 20+75 - 245' Lt. Construct Type 2A Approaches Lt. & Rt.
SPECIAL DITCH 22+70 TO CULVERT
3" Water Line with 3.5' ± Cover Do Not Disrupt Service
"L" 23+00 Construct Type 2B Approach Lt.
"L" 24+50 - 140' Lt. Construct Type 2A Approach Lt.
"L" 24+50 Construct Type 2A Approach Rt.
"L" 25+43 Install 58"x36"x82' C.M.P.A. Skew 30° Lt. Ah. Ditch in & Out
"L" 25+78 Install 58"x36"x 81.5' C.M.P.A. Skew 30° Lt. Ah. Ditch in & Out
"L" 26+20 Exist. twin 50"x31"x76' C.M.P.A.'s Lt. 80' Remove
"L" 27+65 Exist. 50"x31"x62' C.M.P.A. Remove Install 50"x31"x82' C.M.P.A. Skew 10° Lt. AH. Ditch in.
SPECIAL DITCH 30+35 TO CULVERT
"L" 31+15 Exist. 18"x48' C.M.P. Remove Install 50"x31"x90' C.M.P.A.

Excavation	Cu. Yd.	9,236
Embankment	Cu. Yd.	45,205
Sel. Mat. Type I	Ton	69,380
Sel. Mat. Type II	Ton	6,200
Sel. Mat. Type III	Ton	5,640
Clearing & Grubbing	Acre	4.61

Elev. 26.14 600' V.C.
-0.009%
Elev. 25.99 500' V.C.
+25
+4.182%
End of Project Sta. "L" 35+00 Elev. 37.49
INV. ELEV. 21.0
INV. ELEV. 20.5
INV. ELEV. 21.5
INV. ELEV. 19.1
INV. ELEV. 19.5
INV. ELEV. 21.0
12" Sand Filter (Type III)
30
20
10
12 3 4 5 6 7 8 9 20 1 2 3 4 5 6 7 8 9 30 1 2 3 4 35
Elev. 24.50 1+68
-0.77%
Elev. 25.63 0+22
Elev. 32.05 0+22
Obliterate Existing Road
10.25%
Elev. 21.80 1+22

TYPE 2B APPROACH Lt. Sta. "L" 23+00

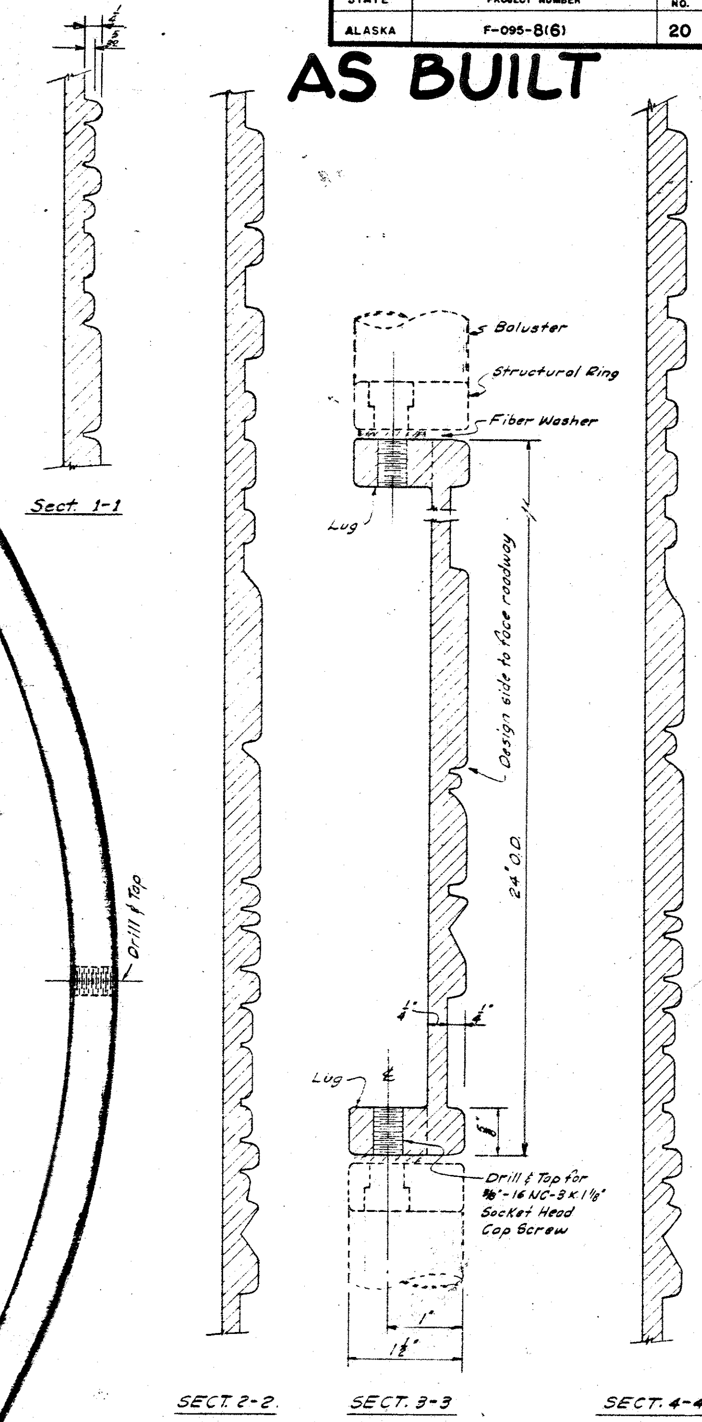
TYPE 2A APPROACH Rt. Sta. "L" 8+40

PLAN — SURVEYED, PLOTTED, NOTE BOOK, ALIGNMENT CHECKED, RT. OF WAY CHECKED, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B. M.s NOTED, STRUCTURE NOTA'NS CH'KD., NOTE BOOK, BY, DATE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(6)	20	30

AS BUILT



Notes:
1. The profile shown in any section above is not intended to be an actual section of the design, but is intended to indicate areas of relief only.
2. Highlight raised portions.
3. Plaques to be Bronze conforming to ASTM Designation B-22, Alloy C.

INCHES

BROTHERHOOD BRIDGE

ROUTE NO 95

THE A N B CREST

BRIDGE NO. 737

REVISIONS		
No.	Date	Description

Alaska Department of Public Works
DIVISION OF HIGHWAYS
Juneau, Alaska

Date 9/10/62
Approved [signature]

DWNG. NO. 946

Designed By / Checked By / Drawn By / Checked By / Traced By
Date / Date / Date / Date / Date