STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1	126

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

RF-ALF-062-4 (25)

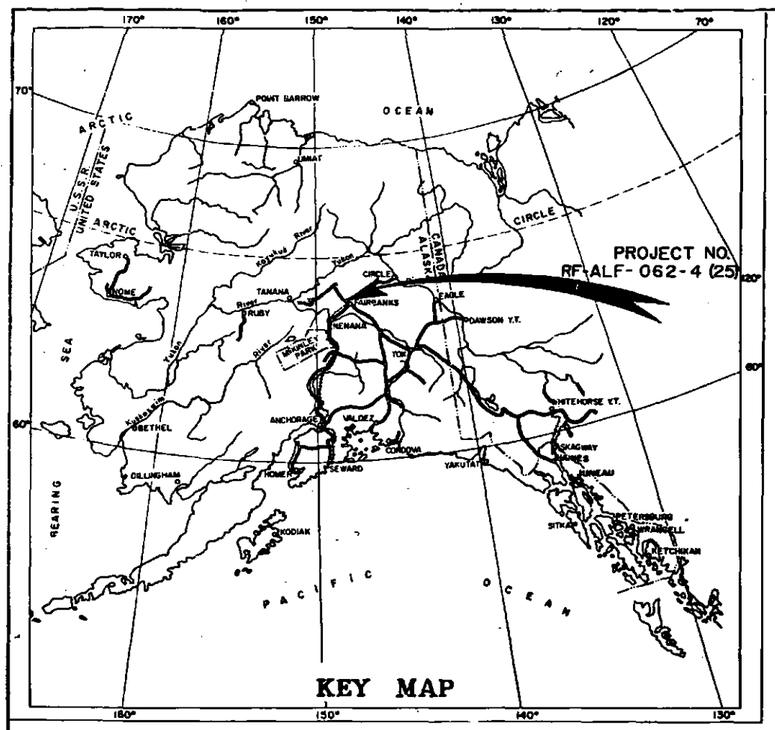
FAIRBANKS EXPRESSWAY NORTH
GAFFNEY - FARMERS LOOP

GRADING, DRAINAGE,
BRIDGE & ASPHALT SURFACING

AS-BUILTS

PROJECT ENGINEER: R. PLATZKE

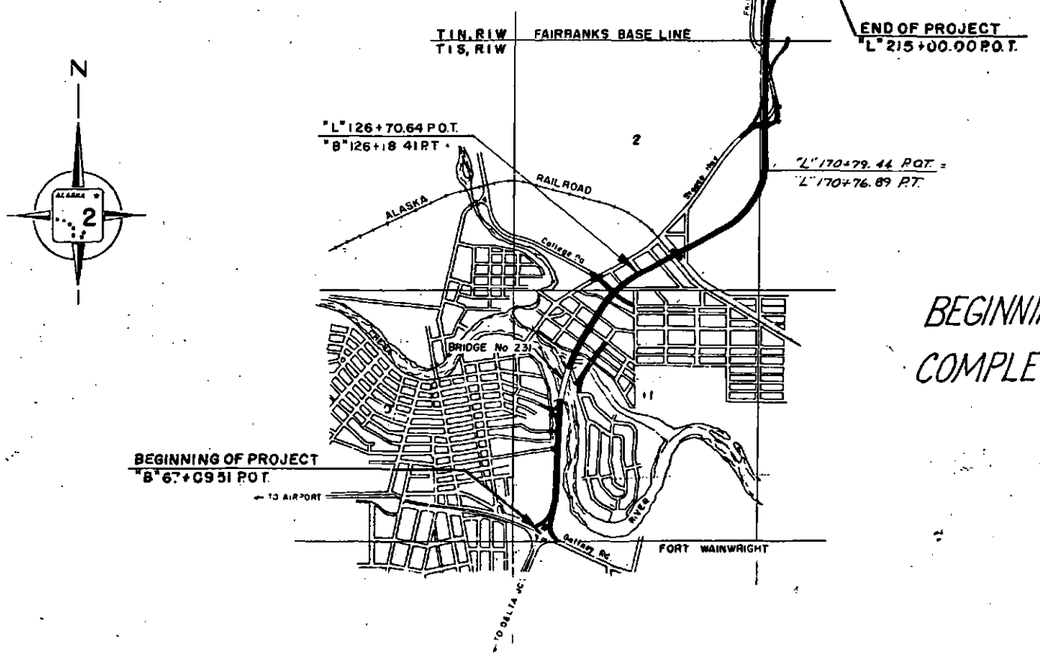
CONTRACTOR: J.I.J.-NELSON-KNIK, J.V.



DESIGN DESIGNATIONS			
GAFFNEY-TRAINOR GATE		TRAINOR GATE-FARMERS LOOP	
ADT (1974)	8,450	ADT (1974)	4,750
ADT (1995)	36 400	ADT (1995)	20,400
DHV (10%)	3640	DHV (11%)	2250
D	45-55	D	45-55
T	5%	T	7%

PROJECT SUMMARY

	FINAL		INTERIM	
WIDTH OF SUBGRADE	VARIES, SEE PLANS		2 LANES	42' EACH
WIDTH OF PAVEMENT	VARIES, SEE PLANS		2 LANES	34' EACH
LENGTH OF GRADING	12,238 Ft.	2.32 Mi.	2,500 Ft.	0.47 Mi.
LENGTH OF PAVING	12,238 Ft.	2.32 Mi.	2,500 Ft.	0.47 Mi.
LENGTH OF BRIDGE	579 Ft.	0.11 Mi.		
LENGTH OF PROJECT	14,738 Ft. = 2.79 Mi.			



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE
2	PLAN SHEET INDEX
3 - 5	TYPICAL SECTIONS
6 - 7	ESTIMATE OF QUANTITIES
8 - 9	SUMMARIES
10 - 14	MISCELLANEOUS DETAILS
14A	MATERIAL SOURCES
15 - 26	PLAN & PROFILE
27 - 34	FRONTAGE & SERVICE ROADS
35 - 47	INTERSECTION DETAILS
47A - 56	SANITARY SEWER & WATER UTILITIES
57 - 58	DRAINAGE SUMMARIES & DETAILS
59 - 66	DRAINAGE PLANS
67	ILLUMINATION DETAILS
67A - 84	SIGNING - ILLUMINATION & STRIPING
85 - 100	SIGNALIZATION
101 - 126	Bridge No. 231

The Following Standard Drawings Apply To This Project: A-1, C-00.01, C-10.00, C-11.01, D-02.01, D-06.01, D-10.00, D-20.10, D-23.01, D-24.11, D-26.00, F-01.00, F-03.00, G-04.13, G-04.31, G-10.11, G-30.01, G-30.12, I-02.00, I-20.01, I-40.10, I-80.00, L-03.10, L-10.10, L-14.00, L-20.01, L-23.00, L-30.00, M-01.00, M-13.01, M-16.03, S-00.10, S-05.00, S-20.00, S-21.00, S-30.10, S-34.10, T-02.00, T-03.00, T-05.00, T-20.00, T-21.00, T-22.00, T-30.00, T-31.00, T-32.00, T-33.01, T-34.00, T-40.00, T-50.00, T-75.10 Modified.

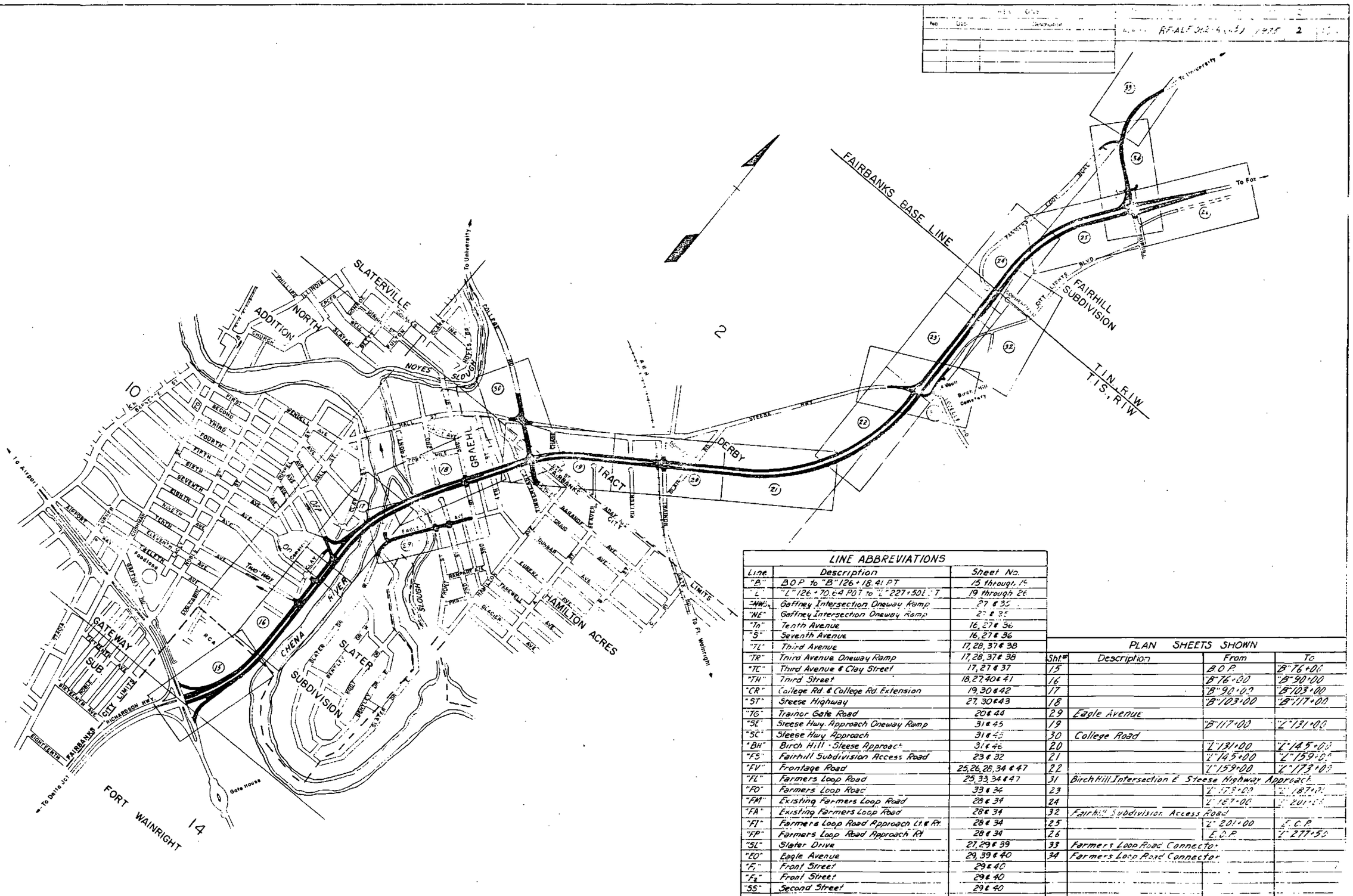
BEGINNING DATE: 9/25/75

COMPLETION: 4/28/78

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED Dodrad Johnson Date 5/19/75
INTERIOR DISTRICT ENGINEER

Date 6/3/75
COMMISSIONER OF HIGHWAYS



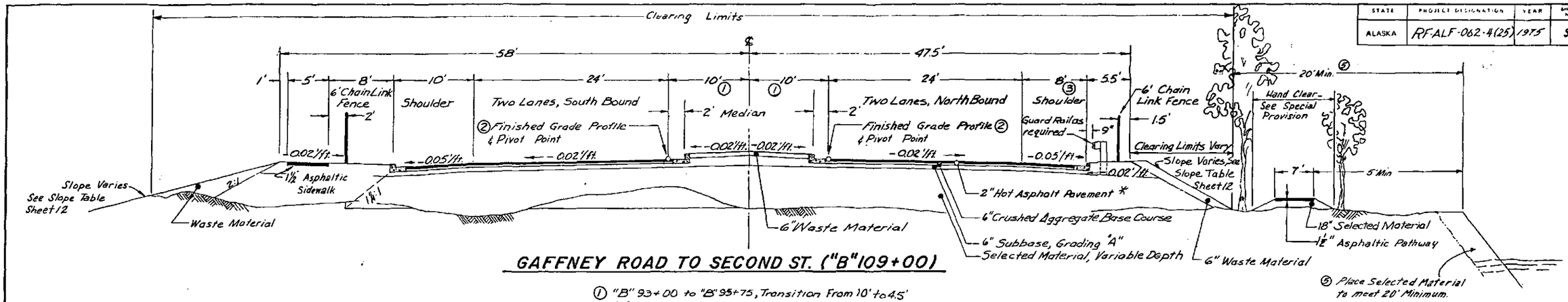
LINE ABBREVIATIONS

Line	Description	Sheet No.
"B"	B.O.P. to "B" 126+18.41 P.T.	15 through 16
"L"	"L" 126+70.64 P.O.T. to "L" 227+50.17	19 through 26
"NW"	Gaffney Intersection Oneway Ramp	27 & 35
"NE"	Gaffney Intersection Oneway Ramp	27 & 35
"10"	Tenth Avenue	16, 27 & 36
"5"	Seventh Avenue	16, 27 & 36
"3"	Third Avenue	17, 28, 37 & 38
"TR"	Third Avenue Oneway Ramp	17, 28, 37 & 38
"TC"	Third Avenue & Clay Street	17, 27 & 37
"TH"	Third Street	18, 27, 40 & 41
"CR"	College Rd. & College Rd. Extension	19, 30 & 42
"ST"	Steese Highway	27, 30 & 43
"TG"	Trainor Gate Road	20 & 44
"SE"	Steese Hwy. Approach Oneway Ramp	31 & 45
"SC"	Steese Hwy Approach	31 & 45
"BH"	Birch Hill - Steese Approach	31 & 46
"FS"	Fairhill Subdivision Access Road	23 & 32
"FV"	Frontage Road	25, 26, 28, 34 & 47
"FL"	Farmers Loop Road	25, 33, 34 & 47
"FO"	Farmers Loop Road	33 & 34
"FM"	Existing Farmers Loop Road	28 & 34
"FA"	Existing Farmers Loop Road	28 & 34
"FI"	Farmers Loop Road Approach Lt. & Rt.	28 & 34
"FP"	Farmers Loop Road Approach Rt.	28 & 34
"SL"	Slater Drive	27, 29 & 39
"EO"	Eagle Avenue	29, 39 & 40
"F"	Front Street	29 & 40
"F2"	Front Street	29 & 40
"SS"	Second Street	29 & 40

PLAN SHEETS SHOWN

Sht.#	Description	From	To
15		B.O.P.	"B" 76+00
16		"B" 76+00	"B" 90+00
17		"B" 90+00	"B" 103+00
18		"B" 103+00	"B" 117+00
19	Eagle Avenue	"B" 117+00	"L" 131+00
30	College Road		
20		"L" 131+00	"L" 145+00
21		"L" 145+00	"L" 159+00
22		"L" 159+00	"L" 173+00
31	Birch Hill Intersection & Steese Highway Approach		
23		"L" 173+00	"L" 187+00
24		"L" 187+00	"L" 201+00
32	Fairhill Subdivision Access Road		
25		"L" 201+00	E.O.P.
26		E.O.P.	"L" 277+50
33	Farmers Loop Road Connector		
34	Farmers Loop Road Connector		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	9	17

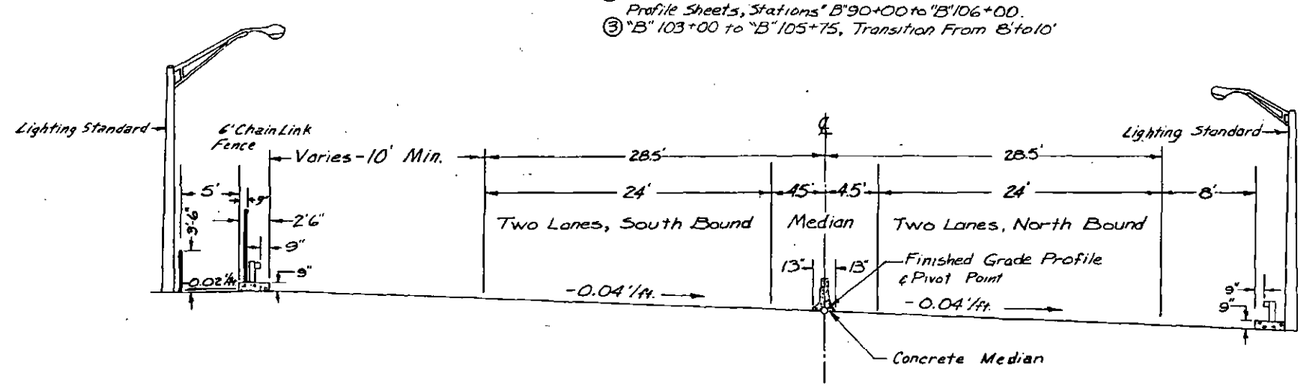


GAFFNEY ROAD TO SECOND ST. ("B" 109+00)

① "B" 93+00 to "B" 95+75, Transition From 10' to 4.5'
"B" 103+00 to "B" 105+75, Transition From 4.5' to 10'
② Finished Grade Profile Varies As Shown On Plan Profile Sheets, Stations "B" 90+00 to "B" 106+00.
③ "B" 103+00 to "B" 105+75, Transition From 8' to 10'

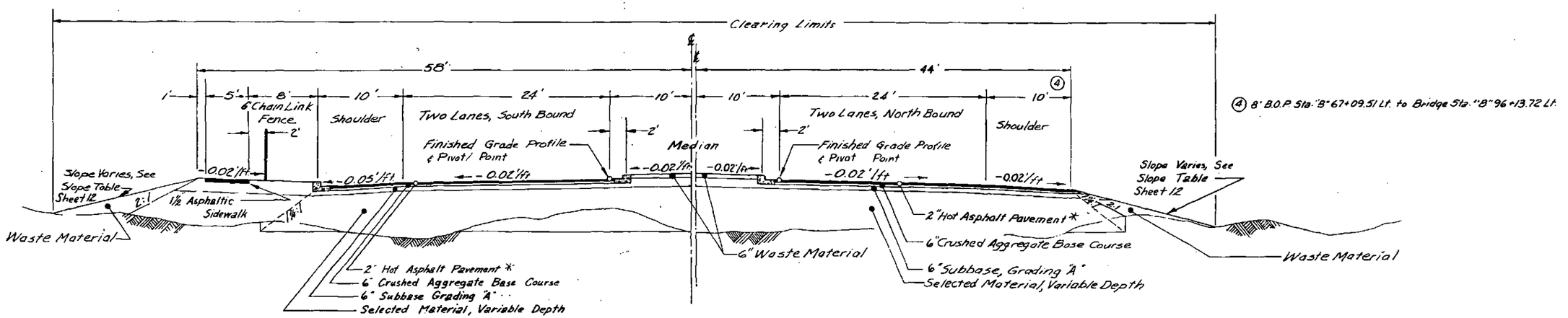
For General Notes see Sheet No. 15
Note for Transition to match Existing Roadways, See Typical Drawing Sheet 18.

* And Prime Coat — Addendum No. 4



TYPICAL SECTION — CHENA RIVER BRIDGE No. 231

Superelevation Rotated About Centerline



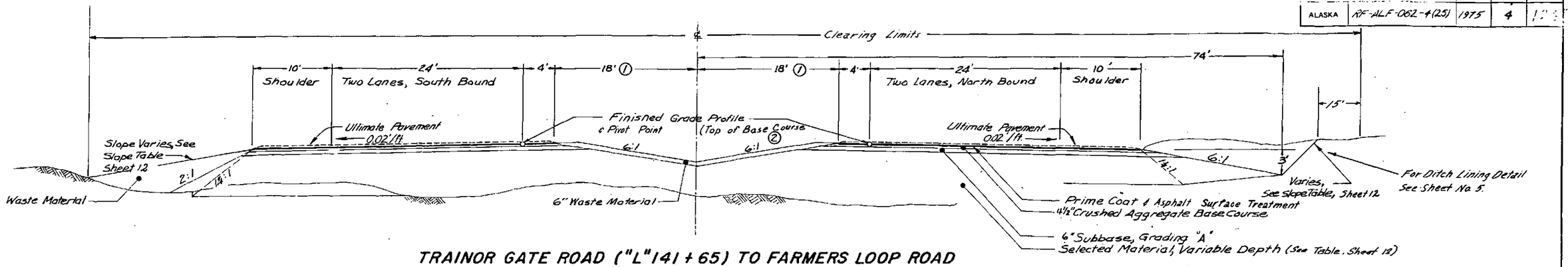
④ 8' B.O.P Sta. "B" 67+09.51 Lt. to Bridge Sta. "B" 96+13.72 Lt.

SECOND ST. ("B" 109+00) TO CHASE DRIVE ("B" 124+50)

URBAN SECTION WITHOUT CURB OR SIDEWALK

TYPICAL SECTIONS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	4	1[illegible]

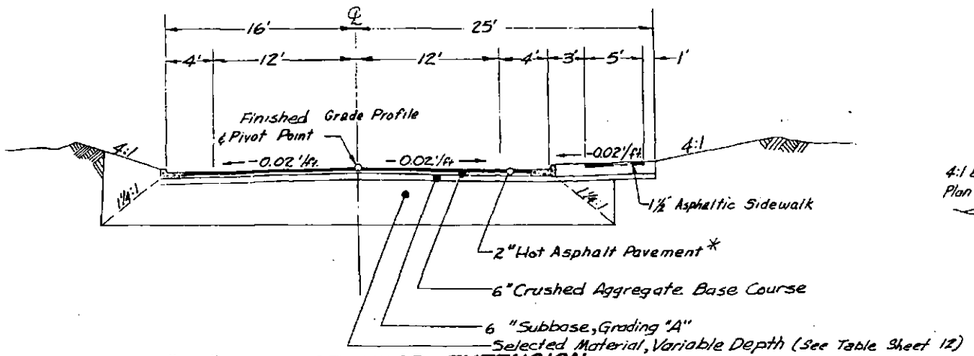


TRAINOR GATE ROAD ("L" 141+65) TO FARMERS LOOP ROAD

① "L" 141+65.00 To "L" 147+65.00 Finish grade profile point transitions from 10.0' Lt. & Rt. To 22.00 Lt. & Rt. Right prism to vary to 34' Max. between Sta. 186+00 & Sta. 206+00

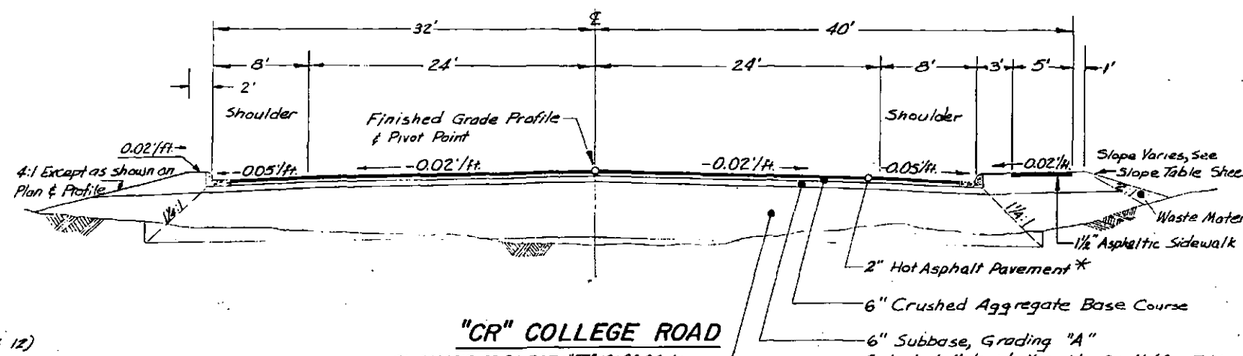
② Slope varies between Sta 186+00 and Sta. 206+00.

③ Place 1½" Hot Asphalt Pavement * in lieu of Prime Coat and Asphalt Surface Treatment from "L" 141+65 to "L" 190+00. Place ¾" Open Graded Asphalt Friction Course from "L" 141+65 to "L" 172+00. Finished Grade Profile shall be on top of Hot Asphalt Pavement from "L" 141+65 to "L" 190+00. See Open Graded Transition Detail on Sheet 13.



"CR" COLLEGE ROAD EXTENSION

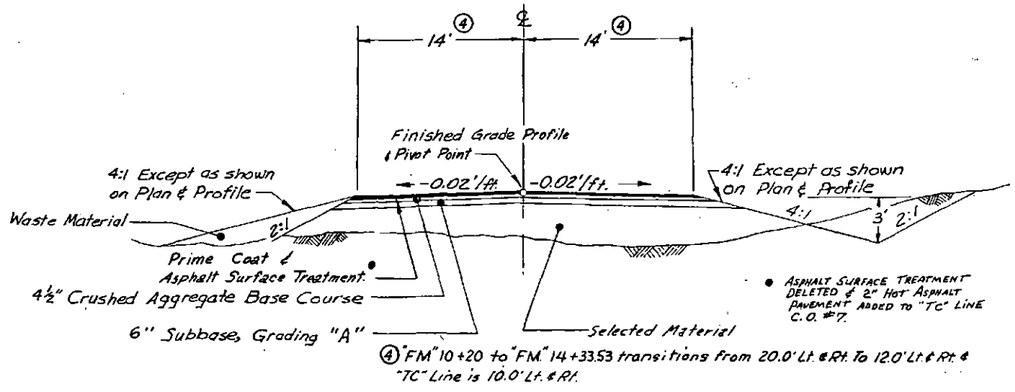
Sta. "CR" 219+93.55 P.O.T. = "B" 121+45.95 P.O.C. to Sta "CR" 225+30.30 P.O.T.



"CR" COLLEGE ROAD

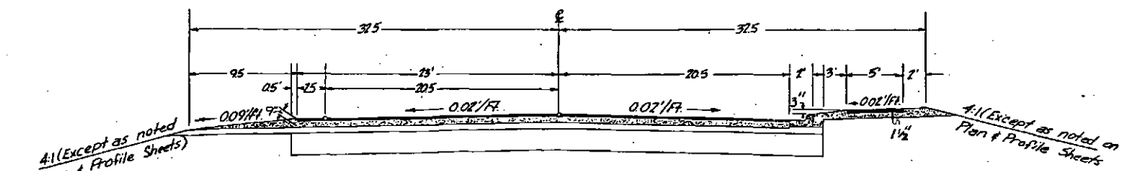
Sta "CR" 215+09.96 P.O.T. = "ST" 10+00.00 to Sta. "CR" 219+55 P.O.T. = "B" 121+45.95 P.O.C.

* AND PRIME COAT, ADDENDUM No. 4



④ "FM" 10+20 to "FM" 14+33.53 transitions from 20.0' Lt. & Rt. To 12.0' Lt. & Rt. & "TC" Line is 10.0' Lt. & Rt.

"BH" & "FM" LINES & "TC", ADDENDUM No. 4

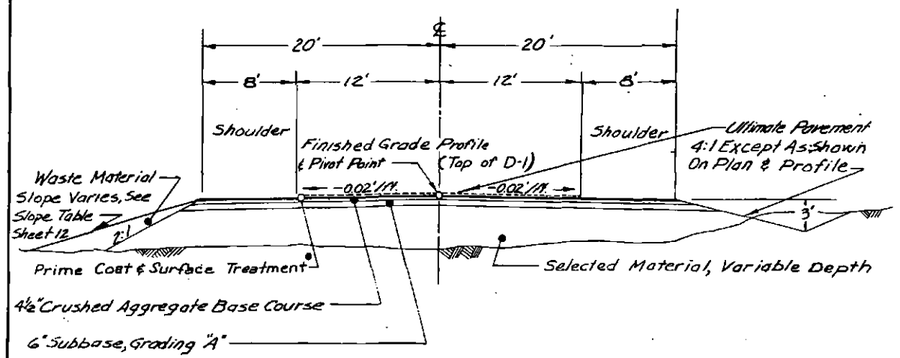


COLLEGE ROAD

"CR" 212+75 to "CR" 215+09.36

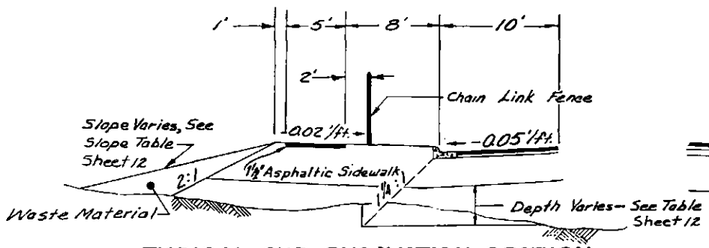
TYPICAL SECTIONS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	AP-ALF-062-4(25)	1975	5	12

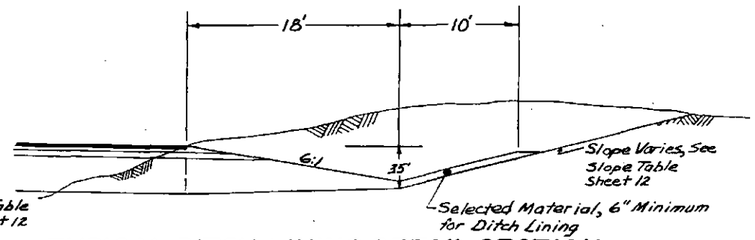


FARMERS LOOP ROAD "FL" & "FO"–"SC" LINE

• ASPHALT SURFACE TREATMENT DELETED AND 1½" OF HOT ASPHALT PAVEMENT ADDED TO "SC" LINE. C.O. #7.

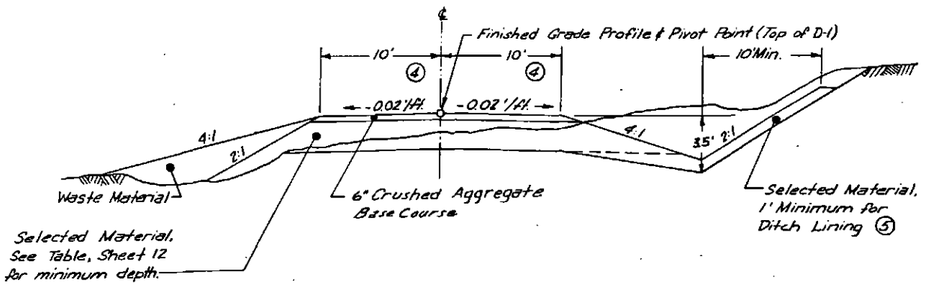


TYPICAL SUB-EXCAVATION SECTION B.O.P. TO STATION "L" 141+65



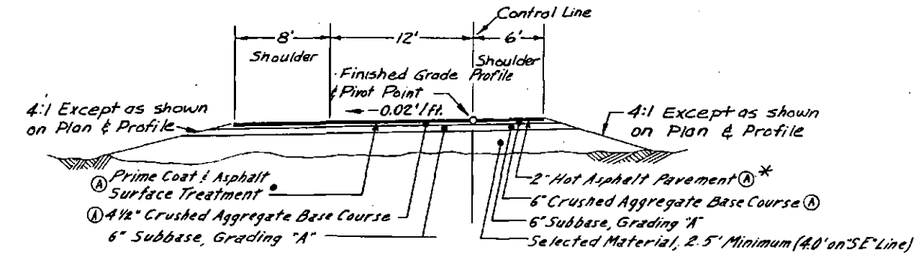
TYPICAL DITCH LINING DETAIL SECTION STATION "L" 194+00 TO STATION "L" 212+00 STATION "FS" 9+96.77 TO "FS" 20+32.73

See Table Sheet 9



"FI","FP","FS","FV" LINES

④ 14' Width for "FV" Line and "FI" from "FI" 7+35.96 to "FI" 8+97.50
⑤ Ditch only on "FS" Line.

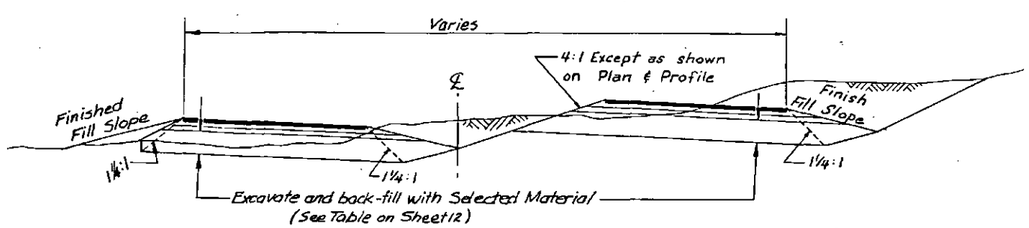


ONE WAY RAMP "TL", "TR" & "SE"

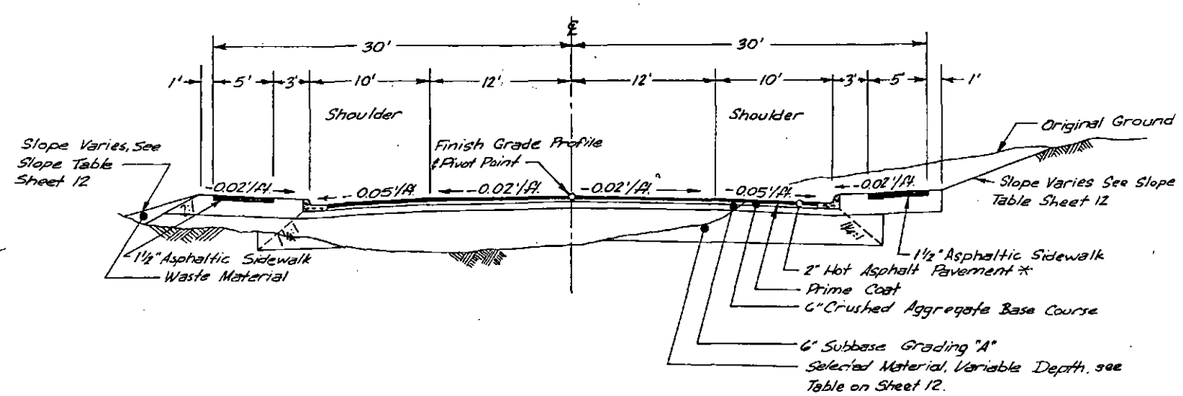
Ⓐ "TL" and "TR" Lines shall have 2" Hot Asphalt Pavement.
"SE" Line shall have Prime Coat & Asphalt Surface Treatment.

• ASPHALT SURFACE TREATMENT DELETED AND 1½" OF HOT ASPHALT PAVEMENT ADDED TO "SE" LINE. C.O. #7.

* AND PRIME COAT, ADDENDUM No. 4



TYPICAL SUB-EXCAVATION SECTION STATION "L" 141+65 TO E.O.P.



"EO" EAGLE AVENUE – "TH" THIRD STREET

TYPICAL SECTIONS

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	6	126

ITEM NO.	ITEM	SUMMARY SHEET NO.	UNIT	PLAN & PROFILE SHEET NUMBERS 15	16	17	18	19	20	21	22	23	24	25	26	29	30	31	32	33	34	ROADWAY TOTAL	BRIDGE TOTAL	GRAND TOTAL
1	Furnish and Maintain Engineering Facilities		Lump Sum																			All Req'd.		All Req'd.
110(1)	Mobilization		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
111(1)	Temporary Erosion and Pollution Control		Cont. Sum																			All Req'd.	All Req'd.	All Req'd.
112(1)	Training Programs		Cont. Sum																			All Req'd.	All Req'd.	All Req'd.
113(1)	Flagging		Man Hours																			~~600~~ 4397		~~600~~ 4397
201(9A)	Clearing and Grubbing		Acre	2.60	2.02	1.98	0.88	2.57	3.67	5.40	3.41	.18				0.77	1.15		.98			~~25.61~~ 28.47		~~25.61~~ 28.47
201(4A)	Hand Clearing		Acre	.42	.65	.24	.22					6.43	7.44	7.87	5.88			.88		.82	3.30	~~34.15~~ 18.71		~~34.15~~ 18.71
202(1)	Removal of Structures and Obstructions		Lump Sum																			All Req'd.		All Req'd.
114.(1)	Construction Engineering by the Contractor		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
202(3)	Removal of Sidewalk		Sq. Yd.				1158									275						~~1433~~ 2166		~~1433~~ 2166
202(8)	Removal of Curb and Gutter		Lin. Ft.	17			2795									649						~~3456~~ 3621		~~3456~~ 3621
203(3)	Unclassified Excavation		Cu. Yd.	34684	25932	19323	26940	25566	9989	251	378	1325	15922	10617	13913	9308	17452	1389	6907	3087	1874	~~224855~~	← 199,331	~~224855~~
203(6B)	Selected Material		Ton	91854	69599	106109	92872	64670	35335	74660	74014	120339	132330	72715	55086	9919	24638	16156	11316	17914	60172	~~129758~~	← 1,092,127	~~189758~~
205(3)	Bedding Material	9	Cu. Yd.																			~~3519~~ 2912		~~3519~~ 2912
205(5)	Bedding Excavation	9	Cu. Yd.																			~~2978~~ 2384		~~2978~~ 2384
206(5)	Cofferdams		Each																				2	2
301(1)	Crushed Aggregate Base Course Grading D-1		Ton	2857	3724	2750	4196	5492	3420	3080	3347	3372	3102	3667	2745	2335	2442	1302	892	1197	2066	~~49,986~~ 49,163		~~49,986~~ 49,163
304(1)	Subbase Grading A		Ton	3069	9719	3638	10583	8199	5255	4375	4917	6517	4665	5125	3056	4651	4014	0	0	0	3748	~~81,591~~ 117,252		~~81,591~~ 117,252
401(1)	Hot Asphalt Pavement		Ton	1039	1381	1723	1505	1242	1153	975	1066	1146	229			892	816	51				~~13,498~~ 14,088	~~551~~ 544	~~13,749~~ 14,632
401(2)	Asphalt Cement AR-10 AC 5		Ton	61.6	81.8	102.1	89.2	73.6	68.3	57.8	63.2	68.0	13.6			52.9	48.4	1.8				~~782.3~~ 776.1	~~32.7~~ 30.0	~~815.0~~ 806.1
402(2)	Emulsified Asphalt for Tack Coat	4	Ton						1.1	4.7	5.0											~~10.8~~ 6.1	0	~~10.8~~ 6.1
403(1)	MC-30 Liquid Asphalt for Prime Coat		Ton	6.63	8.71	6.27 ~~8.34~~	9.83	8.60	9.32	9.24	10.09	10.22	9.22 ~~7.24~~	11.02	6.29			3.58		1.86	4.47	~~34.80~~ 115.35		~~34.80~~ 115.35
405(4)	CRS-2 Emulsified Asphalt for A.S.T.		Ton			1.28							26.92	40.89	25.33			13.29		6.89	16.57	~~129.17~~ 135.99		~~129.17~~ 135.99
405(5A)	Cover Coat, Grading C for A.S.T.		Ton			7.70							162.59	246.94	140.86			80.23		41.62	100.06	~~780.0~~ 799.0		~~780.0~~ 799.0
405(5B)	Cover Coat, Grading E for A.S.T.		Ton			4.40							92.92	141.11	80.49			45.85		23.78	57.18	~~445.73~~ 488.0		~~445.73~~ 488.0
408(1)	Open Graded Asphalt Friction Course		Ton						100.7	420.9	450.9											~~972.5~~ 960.9		~~972.5~~ 960.9
407(1)	Membrane Waterproofing		Sq. Yd.			5015																	5015	5015
408(2)	Asphalt Cement AR-40		Ton						8.1	33.7	36.2											~~78.0~~ 57.1		~~78.0~~ 57.1
501(1)	Class A Concrete		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
501(2)	Class S Concrete		Cu. Yd.																				519	519
501(5)	Expansion Joint Seals		Lin. Ft.																				311	All Req'd.
503(1)	Reinforcing Steel		Lump Sum																			All Req'd	All Req'd.	All Req'd.
504(1A)	Structural Steel, A514, Furnished, Fabricated and Erected		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
504(1B)	Structural Steel, A572, Furnished, Fabricated and Erected		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
504(1C)	Structural Steel, except A514 & A572, Furnished, Fabricated and Erected		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
505(4)	Cast in Place Concrete Piles, Furnished & Driven		Lin. Ft.																				~~9940~~ 10,595	~~9940~~ 10,595
506(4)	Fixed Timber Barricade, Type III		Each			2	6	6	2				2		1							~~19~~ 21		~~19~~ 21
507(1)	Metal Bridge Railing		Lin. Ft.																				~~1203~~ 1198	~~1003~~ 1198
603(22C)	12" Pipe Conduit	9	Lin. Ft.																			~~3980~~ 3777		~~3980~~ 3777
603(22E)	18" Pipe Conduit	9	Lin. Ft.																			~~2250~~ 2634		~~2250~~ 2634
603(22G)	24" Pipe Conduit	9	Lin. Ft.																			~~918~~ 873		~~918~~ 873
603(22I)	36" Pipe Conduit	9	Lin. Ft.																			~~1416~~ 1427		~~1416~~ 1427
603(22K)	48" Pipe Conduit	9	Lin. Ft.																			~~274~~ 298		~~274~~ 298
603(24H)	30" Wood Stave Pipe	59	Lin. Ft.																			~~1198~~ 1159		~~1198~~ 1159
603(24I)	36" Wood Stave Pipe	59	Lin. Ft.																			~~1092~~ 1050		~~1092~~ 1050
603(28B)	End Sections for 24" Pipe Conduit	8 & 59	Each																			~~16~~ 13		~~16~~ 13
603(28I)	End Sections for 36" Pipe Conduit	8	Each																			20		20
603(28J)	End Sections for 42" Pipe Conduit	59	Each																			~~1~~ 0		~~1~~ 0
603(28K)	End Sections for 48" Pipe Conduit	8	Each																			4		4
603(32G)	24" Pipe Conduit for Future Utility Sleeve	9	Lin. Ft.																			~~670~~ 461		~~670~~ 461
603(32H)	30" Pipe Conduit for Future Utility Sleeve	9	Lin. Ft.																			~~266~~ 314		~~266~~ 314
604(1A)	Storm Sewer Manhole	59	Each																			5		5
604(1B)	Combination Drop Inlet - Manhole	59	Each																			12		12

* ADDENDUM NO 4.

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	7	126

ITEM NO.	ITEM	SUMMARY SHEET NO.	UNIT	PLAN & PROFILE SHEET NUMBERS 15	16	17	18	19	20	21	22	23	24	25	26	29	30	31	32	33	34	ROADWAY TOTAL	BRIDGE TOTAL	GRAND TOTAL
604(2)	Sanitary Sewer Manhole	47A	Each																			3		3
604(4)	Adjust Existing Manhole	47A	Each																			~~6~~ 5		~~6~~ 5
604(5A)	Drop Inlet, Type "A" Box	59	Each																			26		26
604(5B)	Field Inlet Type "A" Box	59	Each																			12		12
604(5C)	Depressed Median Drain	8	Each																			~~8~~ 7		~~8~~ 7
604(7)	Water Valve Manhole	47A	Each																			1		1
606(1)	Beam Type Guardrail, Type I Post	9	Lin. Ft.																			~~4875~~ 4867		~~4875~~ 4867
607(3)	Chain Link Fence	9	Lin. Ft.																			~~13,315~~ 15,736		~~13,315~~ 15,736
607(5)	Drive Gates	9&16	Each		1																	1		1
607(7A)	3'-6" Chain Link Fence-Railing		Lin. Ft.																				~~586~~ 588	~~586~~ 588
607(7B)	6'-0" Chain Link Fence-Railing		Lin. Ft.																				~~574~~ 572	~~574~~ 572
608(2A)	Asphaltic Sidewalk, 5' Width		Lin. Ft.	860	1310	85	2265	1327								2643	1110					~~9600~~ 9638		~~9600~~ 9638
608(2B)	Asphaltic Pathway, 7' Width		Lin. Ft.	915	1420	569	470					1511	309									~~5194~~ 5225		~~5194~~ 5225
608(3)	Concrete Stairs		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
609(2)	Curb and Gutter, Type I	9	Lin. Ft.																			~~27,816~~ 27,707		~~27,816~~ 27,707
611(2)	Riprap, Class I A	9	Ton																			~~191~~ 194.8	~~7,175~~ 4408.7	~~7,366.8~~ 4603.5
614(1)	Survey Monument	9	Each																			~~28~~ 30		~~28~~ 30
614(2)	Monument Case	9	Each																			~~28~~ 30		~~28~~ 30
608(1)	Concrete Sidewalk Depth 4"		Sq. Yd.			586.7										177.8						~~764.5~~ 992.6		~~764.5~~ 992.6
615(1)	Standard Sign	67A	Sq. Ft.																			~~2721.07~~	← 2754.87 →	~~2721.07~~
616(1)	½" Culvert Thaw Pipe	58	Lin. Ft.																			~~158~~ 171		~~158~~ 171
617(1)	Railroad Crossing		Lump Sum																			All Req'd.		All Req'd.
617(2)	Railroad Signal and Relay Case Foundations		Lump Sum																			All Req'd.		All Req'd.
618(1)	Seeding		M. Sq. Ft.	111.7	99	93.3	65.7	66.4	80.2	128.8	127.7	202.1	215.2	178.0		4.8						~~1373~~ 1,619		~~1373~~ 1,619
618(2)	Water for Maintenance		M. Gal.	208	184.3	173.7	122.3	123.6	149.3	239.8	237.8	376.3	400.7	331.4		8.9						~~2556~~ 11,064		~~2556~~ 11,064
624(1)	Calcium Chloride		Ton																			~~20~~ 4.7		~~20~~ 4.7
625(1)	Pipe Handrail		Lin. Ft.			856.9																~~856.9~~ 730.0		~~856.9~~ 730.0
626(2)	8" Wood Stave Sanitary Sewer Conduit	47A	Lin. Ft.																			~~220~~ 206		~~220~~ 206
627(1)	Watering		M. Gal.																			~~9857~~ 11,241		~~9857~~ 11,241
628(3A)	3" Steel Water Conduit	47A	Lin. Ft.																			~~125~~ 164		~~125~~ 164
628(3B)	6" Steel Water Conduit	47A	Lin. Ft.																			~~945~~ 895		~~945~~ 895
628(3C)	8" Steel Water Conduit	47A	Lin. Ft.																			~~1570~~ 1635		~~1570~~ 1635
628(3D)	10" Steel Water Conduit	47A	Lin. Ft.																			~~2080~~ 1909		~~2080~~ 1909
628(3E)	12" Steel Water Conduit	47A	Lin. Ft.																			~~230~~ 224		~~230~~ 224
628(4)	Install Valve Box	47A	Each																			~~17~~ 19		~~17~~ 19
628(7)	Fire Hydrant Relocation	47A	Each																			5		5
628(9)	Water Service Connection	47A	Each																			~~12~~ 9		~~12~~ 9
628(10A)	Install 6" Gate Valve	47A	Each																			~~4~~ 5		~~4~~ 5
628(10C)	Install 8" Gate Valve	47A	Each																			10		5
628(10D)	Install 10" Gate Valve	47A	Each																			5		1
628(10E)	Install 12" Gate Valve	47A	Each																			1		
629(1)	Guide Markers	67A	Each																			158		158
629(2)	Object Markers, Type III	67A	Each																			~~9~~ 0		~~9~~ 0
635(1)	Insulation Board	13	M.B.F.															131				~~131~~ 2,384		~~131~~ 2,384
639(11)	Concrete Median		Lin. Ft.																				~~737~~ 1192	~~737~~ 1192
660(1A)	Signal System Complete		Lump Sum																			All Req'd.		All Req'd.
660(3)	Highway Lighting System, Complete		Lump Sum																			All Req'd.	All Req'd.	All Req'd.
660(9)	2-inch Signalization Interconnect Conduit		Lin. Ft.																					~~6900~~ 6696
660(10)	18-Pair Signalization Interconnect Cable		Lin. Ft.																					~~7500~~ 7340
670(1)	Painted Traffic Markings		Lump Sum																			All Req'd.	All Req'd.	All Req'd.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	8	126

CULVERT SUMMARY

CULVERT NO. ○	STATION	LOCATION	SHEET NO.	PIPE CONDUIT LINEAR FEET 12"	24"	36"	48"	END SECTIONS EACH 24"	36"	48"	STRUCTURE EXCAVATION CU.YD. ③	BEDDING EXCAVATION CU. YD.	BEDDING MATERIAL TON	DITCH DIKE MATERIAL TON	COVER FEET	INVERT ELEV. FEET INLET	OUTLET	MEDIAN INLETS TC. ELEV.	REMARKS
1	~~"TC" 10+65~~	℄	17		~~78~~ 80			2			0.0	~~112.0~~ 0	~~224.0~~ 0		8.5	437.4	435.5		
2	~~"B" 93+00~~	℄	17		~~166~~ 180			2			244.0	~~249.3~~ 138.7	~~498.7~~ 138.7		10.0	~~435.0~~ 434.9	~~436.2~~ 436.00		
3	"B" 97+70	95' Lt.	17	10												433.50	430.00		
4	"B" 98+20	95' Lt.	17	20												431.00	431.00		
5	"B" 105+30	℄	18				~~146~~ 143			2	671.1	~~197.0~~ 53.0	~~394.0~~ 53.0		13.5	429.5	~~429.6~~ 429.50		~~Excavate Outlet Ditch on Lt.~~ Skew pipe 10° Counter Clockwise See Sheet 57 for Skew Detail
6	~~"L" 137+25~~	℄	20	~~100~~ 102							2.4	~~5.4~~ 69.3	~~148.0~~ 69.3		1.5	~~433.0~~ 433.00	~~433.0~~ 433.00		Excavate Inlet & Outlet Ditch to Drain
7	~~"L" 137+67.1~~	100' Lt.	20	30							~~14.7~~	0.0	0.0		1.2	439.9	439.5		Place under Existing Railroad Grade
8	~~"G" 9+00~~ 20	℄	20	~~44~~							~~30.8~~	0.0	0.0		1.0	439.7	439.6		~~Excavate Inlet & Outlet Ditch to Drain~~
9	"L" 144+50	N.B. Lanes	20		~~60~~ 62			1			0.0	~~53.9~~ 63.7	~~136.4~~ 71.1		2.3	440.4	~~439.4~~ 439.40	443.8	Install 24"~90° Elbow & 2'~24" C.M.P. Riser ①
10	"L" 148+~~68~~ 63	℄	21			~~152~~ 150			2		0.0	~~76.4~~ 111.6	~~196.4~~ 163.7		4.0	~~436.2~~ 436.20	~~431.0~~ 431.00	443.2	Install 24"×36" Tee & 3'~24" C.M.P. Riser ①
11	"L" 159+~~00~~ 04	℄	21			~~152~~ 150			2		0.0	~~103.0~~ 172.4	~~354.4~~ 172.4		4.0	~~436.0~~ 436.00	~~436.0~~ 436.00		
12	"L" 176+00	℄	23			~~202~~ 205			2		14.5	~~131.1~~ 43.7	~~400.6~~ 75.1	45.0	2.7	~~433.1~~ 433.11	~~433.4~~ 433.40	446.4	~~Excavate Outlet Ditch Lt. to Drain.~~ Install 24"×36" Tee & 1'~24" Riser ① Dike Right ②
13	"L" 184+~~00~~ 02	℄	23			~~198~~ 198			2		14.2	~~208.2~~ 39.3	~~468.0~~ 73.3	45.0	1.0	~~460.6~~ 460.60	~~446.2~~ 446.20	452.0	Install 24"×36" Tee & 1'~24" Riser ① Dike Right ②
14	"L" 194+75 50	S.B. Lanes	24			106			2		19.2	~~125.2~~ 1.2	~~263.9~~ 102.1		1.5	~~451.2~~ 451.20	~~460.0~~ 460.00		
15	"L" 194+75 50	N.B. Lanes	24			~~65~~ 62			2		17.0 3	~~89.6~~ 83.7	~~179.6~~ 14.6	45.0	1.5	~~464.3~~ 464.30	~~458.7~~ 458.70		Dike Right ②
16 DELETED	~~"L" 195+75~~	~~350' Lt.~~	~~24~~	~~36~~				~~2~~											Residence Drive Approach Lt.
17	"L" 204+50	℄	25		~~198~~ 218.5				2		46.2.2	~~206.0~~ 202.2	~~412.0~~ 202.2	45.0	2.5	~~475.2~~ 475.20	~~474.8~~ 474.80	490.2	Install 24"×36" Tee & 4'~24" Riser ① Dike Right ②
18 DELETED	~~"L" 213+60~~	~~70' Lt.~~	~~25~~	~~76~~				+				~~68.9~~ 0	~~138.7~~ 0		6.0	~~508.5~~ 508.50	~~507.0~~ 507.00	516.5	Install 24" 90° Elbow & 5'~24" Riser ①
19	"L" ~~214+75~~ 215+00	℄	25			~~162~~ 158			2		109.4	~~127.9~~ 0	~~315.9~~ 0		1.7	~~515.7~~ 515.70	~~509.6~~ 509.61	517.5	Install 24"×36" Tee & 1.5'~24" Riser ① Ditch Inlet
20	"FV" 0+50	℄	26		42			2			0.6	~~30.9~~ 14.8	~~90.7~~ 40.9		1.5	~~518.9~~ 518.90	~~518.3~~ 518.30		
21	"FV" 3+00	28' Rt.	26		30			2			0.0	~~12.3~~ 27.7	~~65.8~~ 35.6		1.0	~~521.5~~ 521.50	~~521.2~~ 521.20		Residence Drive Approach Rt.
22	"FV" 5+85	28' Rt.	26		48			2			0.0	~~49.8~~ 23.9	~~99.6~~ 42.7		0.6	~~522.6~~ 522.60	~~521.7~~ 521.70		Residence Drive Approach Rt.
23	"EO" 27+64 54	℄	29				98			2	0.0		~~222.0~~ 0		4.5	428.5	428.50		
24 DELETED	~~"SE" 9+00~~	~~℄~~	~~31~~	~~66~~							3.0	~~33.0~~ 0	~~79.0~~ 0		2.3	~~438.9~~ 438.90	~~438.6~~ 438.60		~~Excavate Inlet to Drain~~ PIPE DELETED
25	"BH" 11+20	℄	31	~~64~~ 66							0.0	~~83.0~~ 20.1	~~166.0~~ 44.0		5.0	~~435.8~~ 435.80	~~432.2~~ 432.20		
26	"BH" 11+63	25' Rt.	31	62	~~30~~						0.0	~~35.0~~ 32.9	~~69.0~~ 41.3						Residence Drive Approach Rt.
27 DELETED	~~"BH" 13+65~~	~~℄~~	~~31~~		~~42~~			~~2~~			~~42.0~~	~~44.0~~ 0	~~89.0~~ 0		1.0	~~443.0~~	~~443.0~~		
28	"FS" 14+50	24' Rt.	32		~~38~~ 40						0.0	~~15.7~~ 75.1	~~83.6~~ 80.0		1.0	~~437.2~~ 437.20	~~436.2~~ 436.20		Residence Drive Approach
29	"FO" 17+00	℄	33			~~54~~ 49			2		253.8	~~96.9~~ 23.7	~~202.2~~ 34.7		5.8	~~466.9~~ 466.90	~~465.1~~ 465.10		
30	"FM" ~~12+50~~ 11+50	35' Lt.	34	~~60~~ 106							55.6	0.0	0.0		4.0	473.0	473.0		Residence Drive Approach Lt.
31	"FI" 9+82.50	℄	34	~~64~~ 76							0.0	~~0.0~~ 30.2	~~0.0~~ 50.7		7.5	~~501.2~~ 501.20	~~502.0~~ 502.00		Residence Drive Approach Rt.
32 DELETED	~~"FI" 8+50~~	~~℄~~	~~34~~			~~54~~			~~2~~		0.0	~~52.0~~ 0	~~104.0~~ 0		3.6	~~503.0~~	~~507.6~~		
ADDITIONAL	CULVERTS																		
	"FO" 25+00 Rt.			44								29.3	29.3			491.50	489.80		
	"BH" 12+35			46								22.2	30.7			441.30	440.60		
	"BH" 13+40			48								26.1	32.0			441.80	441.30		
	"FO" 25+00 Lt.					54			2			52.0	52.0			496.38	493.00		
	"L" 164+90				78			1				19.1	48.0			441.60	439.50		
	137+32 82' Lt.			10								0	0			—	—		
	"SC" 8+00			72								0	0			436.90	435.90		
	"WR" 69+53 61' Lt.			26								0	0			438.10	437.90		
18" PIPE CONDUIT TOTAL				~~666~~ 666	~~732~~ 732	~~1426~~ 1316	~~278~~ 278	~~16~~ 12	20	4	~~2224~~	~~2234~~ 1443.9	~~5421~~ 1959.7	180 ②					① Riser Pipe Not Included in Totals, but will be paid for under Item 604(5C).
	"FM" 11+50 ℄ 18"× 106'											68.20	82.44						

② For Ditch Dike Details, see Sheet 13, to be paid for under Item 203(68).

③ For estimating purposes only (Not A Pay Item).

SURVEY MONUMENTS

STATION (* CHANGED TO P.I. @ STA. "B" 72 + 31.61)	LOCATION	NO.	REMARKS
*~~"L" 67+09.51 P.O.T.~~ "B" ~~67+09.51~~ P.O.T.	℄	1	Case & Cap
~~"B" 67+81.83 P.O.T.~~ "B" 67+84.10 ~~87+81.92 P.C.~~	℄	P.C. 1	Case & Cap
"B" 76+63.27 P.T.	℄	1	Case & Cap
"B" 85+21.66 P.O.T. "TN" 10+00.00 P.O.T.	℄	1	Case & Cap
"B" 89+31.42 P.O.T. "S" 10+00.00 P.O.T.	℄	1	Case & Cap
"B" 93+ 22.07 P.C.	℄	1	Case & Cap
"B" 110+17.64 P.T.	℄	1	Case & Cap
"B" 112+46.11 P.O.T. "TN" 11+32.53 P.O.T.	℄	1	Case & Cap
"B" 119+49.31 P.C.	℄	1	Case & Cap
"B" 121+45.95 P.O.C. "CR" 219+93.55 P.O.T.	℄	1	Case & Cap
"CR" 215+09.34 P.O.T. "ST" 10+00.00 P.O.T.	℄	1	Case & Cap
"CR" 220+95.50 P.C.	℄	1	Case & Cap
"B" 126+18.41 P.T. "L" 126+70.64 P.O.T.	℄	1	Case & Cap
"L" 138+11.28 P.O.T. "TG" 10+00.00 P.O.T.	℄	1	Case & Cap
"L" 151+77.~~84~~ P.C.	℄	1	Case & Cap
~~"L" 174+74.85 P.T.~~ "L" 174+74.85 P.O.T.	℄	1	Case & Cap
"L" 181+90.18 P.O.T.	℄	1	Case & Cap
"L" 193+99.55 P.C.	℄	1	Case & Cap
"L" 208+35.55 P.T.	℄	1	Case & Cap
"L" 214+01.15 P.O.T. "FL" 31+37.81 P.O.T.	℄	1	Case & Cap
"B" 93+45.85 P.O.C. "TL" 12+97.59 P.O.T.	℄	1	Case & Cap
"EO" 33.33.71 P.O.T. "TL" 15+97.79 P.O.T.	℄	1	Case & Cap
"EO" 29+84.07 P.O.T. "EO" 28+13.42 P.O.T. "EO" 28+08.56 P.O.T. "EO" 22+67.12 P.T.	℄	4	Case & Cap
"EO" 19+22.29 P.O.T.	℄	1	Case & Cap
"FO" 24+94.07 P.T.	℄	1	Case & Cap
TOTAL		~~28~~ 29	
"L" 191+05	47' LT.	1	SECTION CORNER CASE & CAP
"L" 191+05	47' LT.	1	SECTION CORNER CASE & CAP

BEAM TYPE GUARD RAIL

STATION TO STATION		LEFT	RIGHT
		LINEAR FEET	
"NE" 181+00	"NE" 183+00.50 Rt. ±		200
"B" 77+90	"B" 95+90.00		1800
"B" 102+10	"B" 105+97.5		387.5
Clay Street Parking Lot		125 ②	
"TR" 12+96.5	"TR" 14+84.00	187.5 ③	
"B" 103+00	"B" 106+00	300	
"L" 136+75	"L" 137+62.5		87.5 ④
"L" 138+37.5	"L" 139+25	87.5 ⑤	
"L" 187+75	"L" 204+75		1700 ⑥
TOTAL		700.0	4175.0

② Place along River
③ Do not Flare
④ Last section shall have Factory shaped radius of 20 Ft.
⑤ First section shall have Factory shaped radius of 20 Ft.
⑥ Place on median side of roadway.

CURB CUTS ⑦

CUT NO.	STATION	OFFSET	WIDTH
1	"EO" 20+42	Rt.	50'
2	"EO" 24+00	Lt. & Rt.	34'
3	"EO" 31+58	Lt. & Rt.	20'
4	"TH" 9+95	Rt.	20'
5	"CR" 221+30	Lt.	20'
6	"CR" 223+00	Lt.	20'
7	"CR" 223+70	Rt.	20'
8	"CR" 225+00	Rt.	20'
9	"B" 85+34	Rt.	12'
10	"TH" 9+93	LT.	*
11	"TH" 9+73	LT.	*
12	"TH" 8+85	LT.	**

* To Be Removed and Replaced with Curb & Gutter.
** Widen To 34' Curb Cut & Depress Sidewalk As Directed By The Engineer.
⑦ To be Paid for as Curb & Gutter.

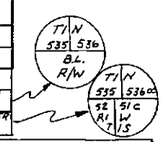


TABLE OF ESTIMATING FACTORS

ITEM	DESCRIPTION	FACTOR
203(6B)	Selected Material	2.00 tons/Cu. yd.
301(1)	Crushed Aggregate, Base Course, Grading D-1	2.00 tons/Cu. yd.
304(1)	Subbase, Grading A	2.00 tons/Cu. yd.
401(1)	Hot Asphalt Pavement	110 lb/Sq. yd. in. = .055 ton/Sq. yd. in.
401(2)	Asphalt Cement	6.3% of dry aggregate wt of 401(1)
403(1)	MC-30 Liquid Asphalt for Prime Coat	0.20 Gal./Sq. yd. = .000781 Tn./Sq. yd.
405(4)	CRS-2 Emulsified Asphalt, 1st Coat for A.S.T.	0.1406 Gal./Sq. yd. = .001756 Tn./Sq. yd. ①
405(4)	CRS-2 Emulsified Asphalt, 2nd Coat for A.S.T.	0.30 Gal./Sq. yd. = .001242 Tn./Sq. yd. ①
405(5A)	Cover Coat, Grading C for A.S.T.	35 lb/Sq. yd. = .0175 Ton/Sq. yd. ①
405(5B)	Cover Coat, Grading E for A.S.T.	20 lb/Sq. yd. = .01 Ton/Sq. yd. ①
611(2)	Riprap, Class I	1.75 tons/Cu. yd.

① A.S.T. = Asphalt Surface Treatment

FENCING

STATION TO STATION		LENGTH ⑧
"B" 67+32.00 (175' Lt)	"B" 68+57.62 (79' Lt)	152'
"B" 68+57.62 (79' Lt)	"B" 71+34.47 (50' Lt)	265'
"B" 71+34.47 (50' Lt)	"B" 73+09.10 (50' Lt)	170'
"B" 73+09.10 (50' Lt)	"B" 74+83.73 (50' Lt)	170'
"B" 74+83.73 (50' Lt)	"B" 76+63.27 (50' Lt)	175'
"B" 67+87.83 (147' Rt)	"NE" 180+15.94 (38' Lt)	75'
"NE" 180+15.94 (38' Lt)	"B" 71+01.00 (70' Rt)	245'
"B" 71+01.00 (70' Rt)	"B" 74+00.00 (75' Rt)	310'
"B" 74+00.00 (75' Rt)	"B" 76+63.27 (70' Rt)	272'
"B" 76+63.27 (50' Lt)	"B" 84+52.00 (50' Lt)	~~787~~ 774'
"B" 85+90.00 (54' Lt	"B" 88+73.97 (54' Lt)	~~204~~ 202.6
"B" 76+63.27 (70' Rt)	"B" 78+00.00 (70' Rt)	137'
"B" 78+00.00 (70' Rt)	"B" 79+00.00 (46' Rt)	102'
"B" 79+00.00 (46' Rt)	"B" 90+00.00 (46' Rt)	1088' ⑨
"B" 89+90.00 (75' Lt)	"B" 93+18.00 (75' Lt)	~~328~~ 334.4
"B" 95+20.00 (154' Lt)	"B" 95+77.00 (118' Lt)	67'
"B" 95+77.00 (118' Lt)	"B" 97+20.00 (105' Lt)	144'
"B" 97+20.00 (105' Lt)	"B" 97+70.00 (123' Lt)	53'
"B" 97+70.00 (123' Lt)	"B" 97+67.00 (55' Lt)	~~68~~ 88.2
"B" 97+67.00 (55' Lt)	"B" 99+37.00 (50' Lt)	170' *
"B" 99+37.00 (50' Lt)	"B" 101+68.00 (40' Lt)	231' *
"B" 101+68.00 (40' Lt)	"B" 103+00.00 (40' Lt)	132' *
"B" 90+00.00 (46' Rt)	"B" 95+60.00 (46' Rt)	~~560~~ 586.5
"B" 103+00.00 (40' Lt)	"B" 103+60.00 (46' Lt)	60' *
"B" 103+60.00 (46' Lt)	"B" 106+00.00 (50' Lt)	240'
"B" 106+00.00 (50' Lt)	"B" 107+50.00 (50' Lt)	150'
"B" 107+50.00 (50' Lt)	"B" 109+00.00 (50' Lt)	150'
"B" 109+00.00 (50' Lt)	"B" 110+50.00 (50' Lt)	150'
"B" 110+50.00 (50' Lt)	"B" 111+46.00 (50' Lt)	~~96~~ 150.5
"B" 113+46.00 (50' Lt)	"B" 117+00.00 (50' Lt)	354'
"B" 102+00.00 (48' Rt)	"B" 107+65.00 (48' Rt)	565'
"B" 107+65.00 (48' Rt)	"B" 110+17.64 (54' Rt)	253'
"B" 110+17.64 (54' Rt)	"B" 111+46.00 (54' Rt)	~~128~~ 135.7
"B" 113+46.00 (50' Rt)	"B" 117+00.00 (50' Rt)	354'
"B" 117+00.00 (50' Lt)	"B" 119+90.00 (50' Lt)	290'
"B" 119+90.00 (59' Lt)	"CR" 218+27.00 (42' Rt)	~~162~~ 151.6
"CR" 218+34.00 (34' Lt)	"B" 122+57.00 (63' Lt)	125'
"B" 122+57.00 (54' Lt)	"B" 124+00.00 (54' Lt)	143'
"B" 124+00.00 (54' Lt)	"L" 127+00.00 (85' Lt)	248'
"L" 127+00.00 (85' Lt)	"L" 131+00.00 (85' Lt)	400'
"B" 117+00.00 (50' Rt)	"B" 120+65.00 (50' Rt)	~~365~~ 351.8
"B" 122+35.00 (50' Rt)	"B" 124+00.00 (50' Rt)	160'
"B" 124+00.00 (50' Rt)	"L" 127+00.00 (85' Rt)	243'
"L" 127+00.00 (85' Lt)	"L" 131+00.00 (85' Lt)	400'
"L" 131+00.00 (85' Lt)	"L" 136+48.13 (110' Lt)	548'
"L" 136+48.13 (110' Lt)	"L" 136+40.63 (150' Lt)	~~41~~ 58.9
"L" 131+00.00 (85' Rt)	"L" 136+77.23 (110' Rt)	~~577~~ 550.8
"L" 136+77.23 (110' Rt)	"L" 136+81.98 (135' Rt)	16'
"L" 138+55.00 (120' Lt)	"L" 147+00.00 (90' Lt)	~~845~~ 811.6
"L" 138+81.00 (118' Rt)	"L" 147+00.00 (90' Rt)	~~819~~ 816.9
"L" 189+39.00	"L" 211+86 C.O. #10 (ENG'G #34 ITEM 607(1B))	2402.9
7TH AVE. (211.3 FT) & 3RD AVE. (277.1 FT)		488.4
		16,308
Total		~~17,889~~ 17,881 LF *

* Item 607(1B) 571.6 Ft

⑧ All Fencing is 6 feet in Height.
⑨ 12' Taken out for drive gate.
* Include 574 Linear feet of 6' Fence. Railing. See Bridge Drawing #3387.

CURB & GUTTER

	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH L.F.	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH L.F.
⑩	"B" 67+09.51	36' Lt.	"B" 69+19.83	44' Lt.	506	"B" 121+92.85	6' Rt.	"L" 137+54.00	6' Lt.	3,028
⑩	"B" 67+09.51	36' Rt.	"B" 69+90.00	36' Rt.	580	"L" 138+67.82	6' Rt.	"L" 149+65.00	℄	623
	"B" 67+07.51	6' Rt.	"B" 84+76.66	6' Lt.	3,544	"L" 137+19.92	44' Lt.	"L" 137+52.00	49' Lt.	35
	"NW" 66+65	14' Lt.	"TN" 10+89.26	20' Lt.	1,846	"TG" 9+34.00	35' Rt.	"TG" 8+96.00	25' Rt.	42
	"TL" 10+83.26	20' Rt.	"S" 10+80.72	20' Lt.	410	"TG" 9+05.20	22' Lt.	"L" 138+69.81	44' Lt.	93
	"B" 85+61.66	6' Lt.	"B" 89+33.00	℄	755	"L" 137+41.72	44' Rt.	"L" 137+65.00	45' Rt.	24
	"B" 78+45.00	36' Rt.	"B" 96+73.50	36.5' Rt.	1,829	"TG" 10+50.00	35' Rt.	"TG" 10+94.48	22' Rt.	47
	"B" 89+81.42	6' Lt.	"B" 93+11.78	6' Lt.	666	"TG" 11+08.18	26' Lt.	"L" 139+03.50	44' Rt.	100
	"B" 93+55.00	℄	"B" 95+~~97~~ 22	℄	489	"EO" 19+22.29	18' Lt.	"SL" 10+00.00	18' Rt.	335
						"SL" 10+00.00	18' Lt.	"F," 10+50.08	15' Lt.	664
	"B" 102+10.00	36.5' Rt.	"TH" 13+05.00	22' Rt.	1,115	"F," 10+50.08	15' Rt.	"SS" 10+46.50	15' Lt.	182
	"B" 103+00.00	36.5' Lt.	"TN" 9+73.00	22' Rt.	1,017	"SS" 10+47.50	15' Rt.	"TN" 13+51.37	22' Rt.	341
	"B" 103 +~~33.91~~	℄	"B" 111+96.00	6' Lt.	1,727	"EO" 19+22.29	18' Rt.	"F," 9+49.03	15' Lt.	871
	"TH" 9+64.00	22' Lt.	"ST" 9+38.01	20' Rt.	1,385	"F," 9+49.03	15' Rt.	"SS" 9+52.50	15' Lt.	176
	"B" 112+92.00	6' Rt.	"B" 121+05.95	6' Lt.	1,634	"SS" 9+53.50	15' Rt.	"TH" 16+45.38	22' Rt.	341
	"TH" 13+05.00	22' Lt.	"CR" 225+30.30	16' Rt.	1,457					
	"CR" 212+75.00	22' Rt.	"ST" 9+18.55	20' Lt.	221			Subtotal		27,791
	"ST" 10+90.94	20' Rt.	"B" 124+25.00	48' Lt.	648	"TH" 8+85	22' Lt.	Curb Cut Widening		25
	"CR" 225+30.30	16' Rt.	"L" 128+10.00	~~42~~ Rt.	1,060					27,703
						TOTAL				~~27,816~~

⑩ Islands.

PIPE CONDUIT & BEDDING SUMMARY ⑪

Description	Sheet No.	SIZE 12"	18"	24"	30"	36"	48"	BEDDING Exc.	Mat'l.
Culvert	8	~~458~~ 702	106	~~630~~ 626		~~1316~~ 1426.5	~~274~~ 298.0	~~2234~~ 1967.5	~~2710~~ 1947.5
								913.5	784.3
Storm Drain	59	~~3570~~ 3576.6	~~446~~ 263.8	~~170~~ 136				~~744~~	~~809~~
Casing	47A	160	~~1804~~ 1763.3	~~110~~ 111				~~129~~ 8 (12)	~~114~~ 0 (12)
Total L.F.		~~3988~~ 3776.6	~~2250~~ 2633.8	~~918~~ 873.0		~~1316~~ 1426.5	~~274~~ 298.0	~~2978~~ 2883	~~3519~~
Casing for Future Utilities				~~670~~ 461	266			~~1302~~ (13)	~~770~~ (13)

⑪ For Wood Stave Pipes, see Sheet 59.
⑫ No direct payment but shall be considered incidental to Item 603(22).
⑬ No direct payment but shall be considered incidental to Item 603(32).

RIPRAP SUMMARY

STATION	SHEET NO.	USE	CLASS IA (TON)	
"B" 76+60 Rt.	61	Storm Sewer	39.2	
"B" 80+00 Rt.	61	Storm Sewer	30.4	
"B" 85+20 Rt.	61	Storm Sewer	30.4	
"B" 88+28 Rt.	61	Storm Sewer	30.4	
"B" 93+80 Rt.	62	Storm Sewer	30.4	
"EO" 19+22.29	65	Storm Sewer	30.4	
B"85+50 to B"103+00	17	Bridge	7175.0	
		TOTAL	7366.2 (14)	

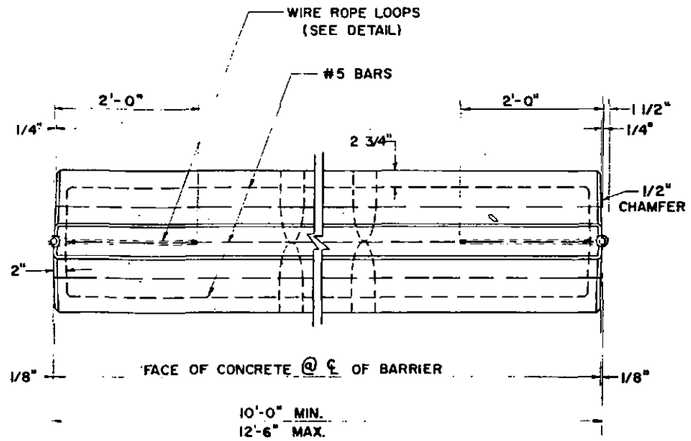
(14) See Sheet 58 for Riprap Detail for Storm Sewer.

DITCH LINING SUMMARY (RIGHT)

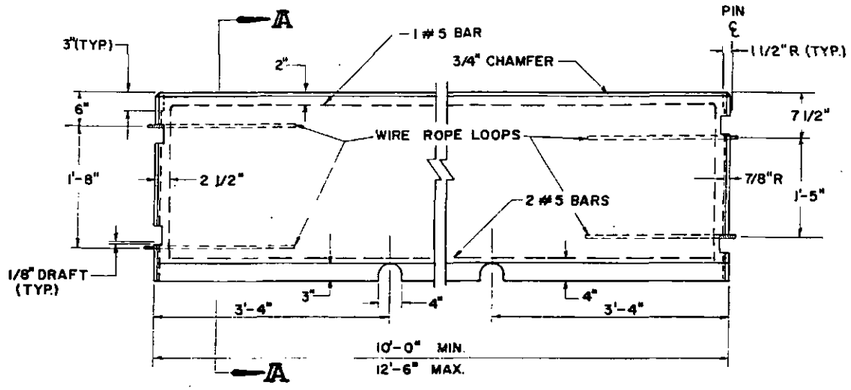
STATION TO STATION		THICKNESS	TON
"L" 194+00	"L" 212+00	0.5'	447
"FS" 9+96.77	"FS" 20+32.73	1.0'	767
		TOTAL	1434

MISCELLANEOUS SUMMARIES

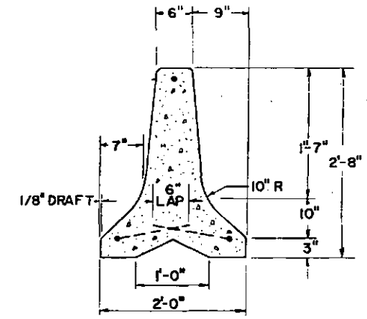
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	10	125



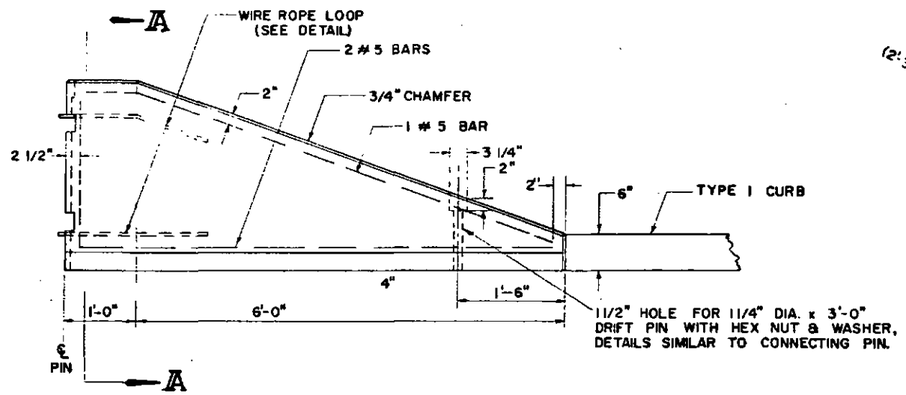
INTERMEDIATE PLAN



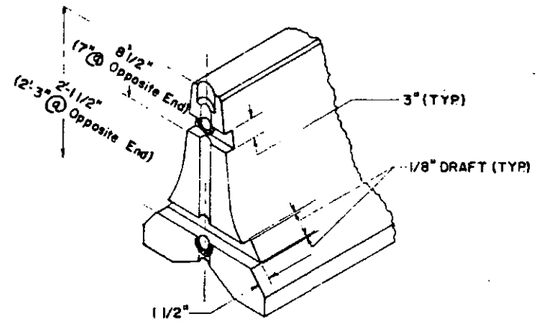
INTERMEDIATE ELEVATION



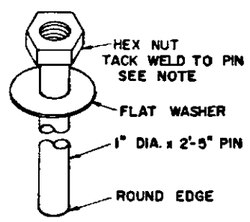
SECTION A-A



TRANSITION ELEVATION



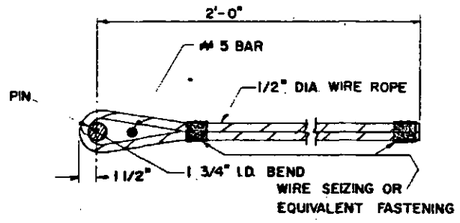
END SECTION VIEW



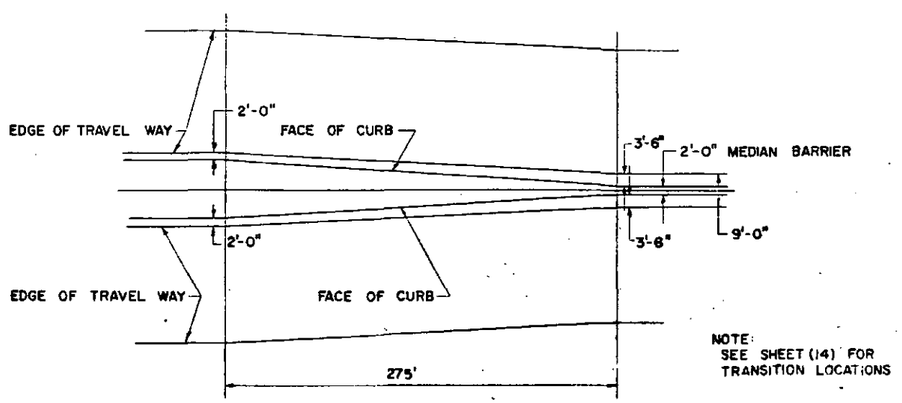
CONNECTING PIN

NOTE:

TO FACILITATE PIN REMOVAL, THREAD HEX NUT HALF WAY ONTO THE PIN & TACK WELD, OR PROVIDE A COUPLING NUT, TIGHTENED SUFFICIENTLY TO PREVENT LOOSENING. FILL NUT WITH GREASE TO EXCLUDE ICE OR OTHER CONTAMINANTS.



WIRE ROPE LOOP DETAIL



NOTE:
SEE SHEET (14) FOR
TRANSITION LOCATIONS

CURB TRANSITION DETAIL

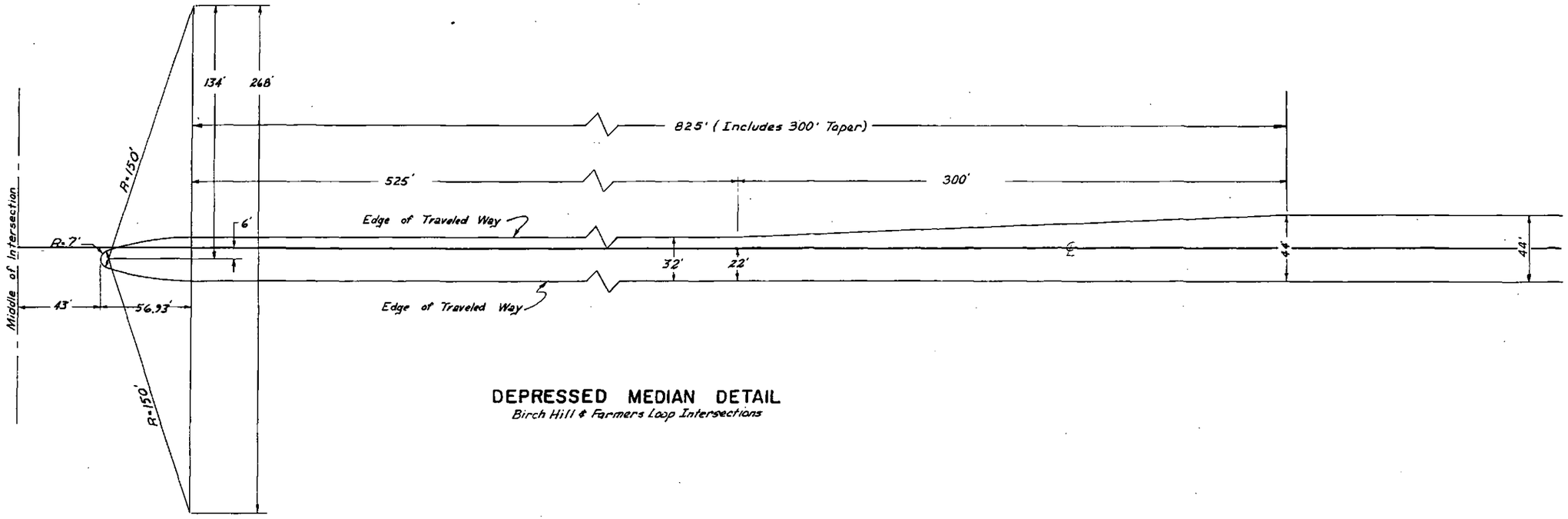
GENERAL NOTES:

1. Precast concrete shall be Class A
2. Vertical axis of concrete barrier shall be normal to roadway surface.
3. Slight dimension changes may be made as approved by the Engineer.
4. Contractor at his option may present plans, details, and specifications for cast in place to the Engineer for his consideration as an alternate to the precast method.

MISCELLANEOUS DETAILS

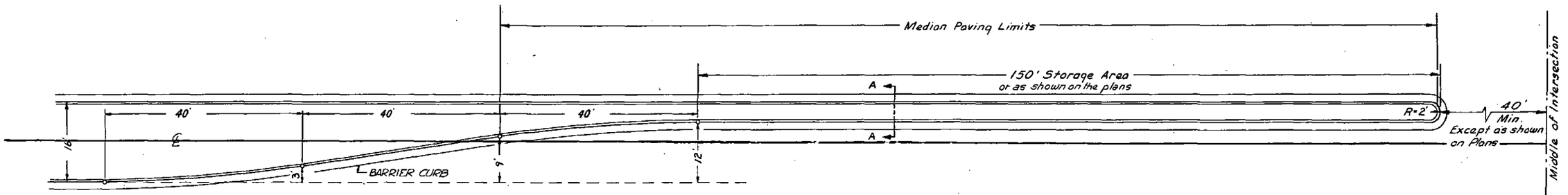
MEDIAN BARRIER

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	11	126



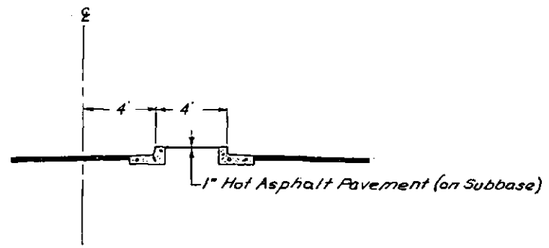
DEPRESSED MEDIAN DETAIL

Birch Hill & Farmers Loop Intersections



Parabolic flare								Straight line								Parabolic flare						
Distance (x)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
Offset (y)	0	.05	.19	.42	.75	1.17	1.69	2.30	3.00	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.70	10.31	10.83	11.25	11.58	11.81	11.95	12.00

RAISED MEDIAN DETAIL

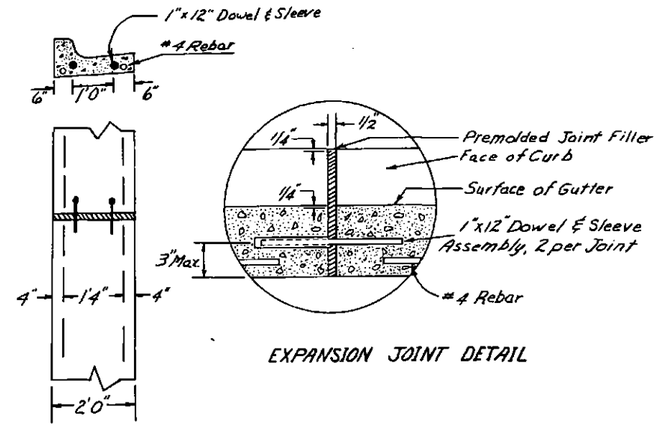


SECTION A-A

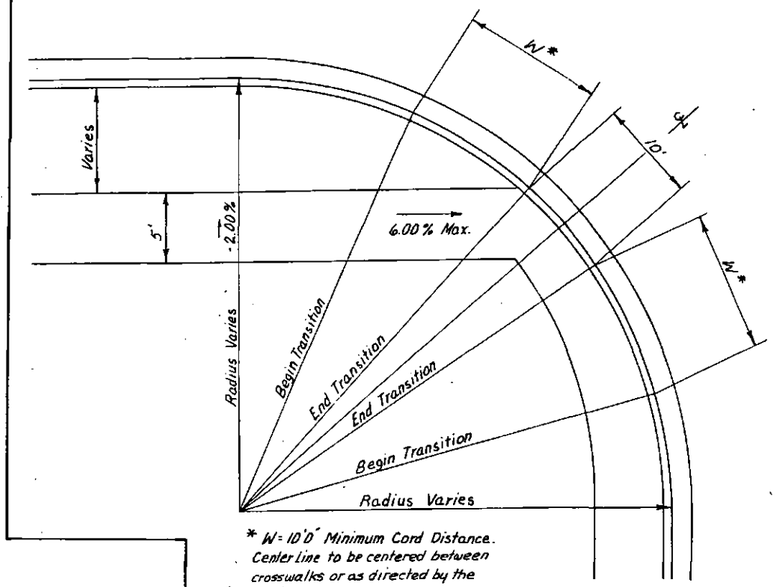
MISCELLANEOUS DETAILS
MEDIAN

W.A.E. - 11/17/73 - Revised Dimensions

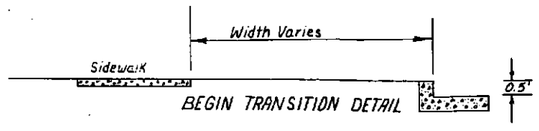
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	12	126



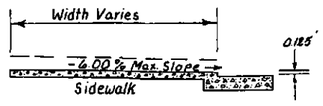
EXPANSION JOINT DETAIL



* W = 10'0" Minimum Cord Distance. Centerline to be centered between crosswalks or as directed by the Engineer.

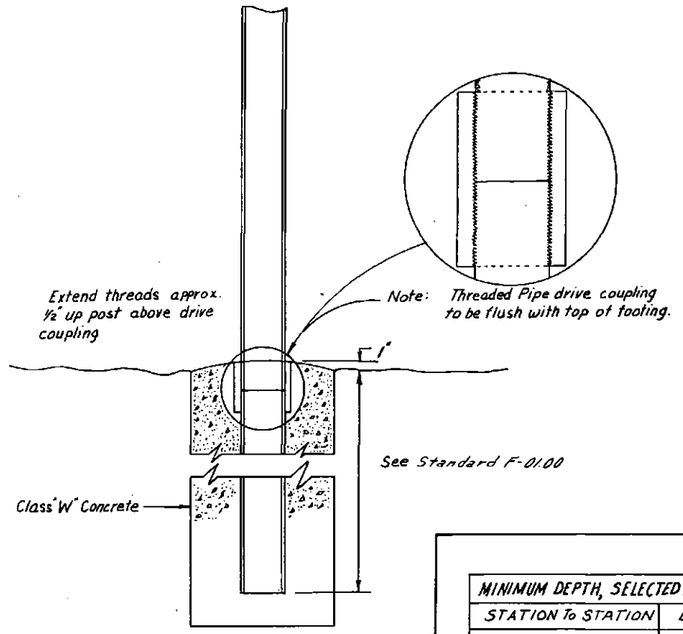


BEGIN TRANSITION DETAIL



END TRANSITION DETAIL

WHEEL CHAIR CURB CUT DETAIL

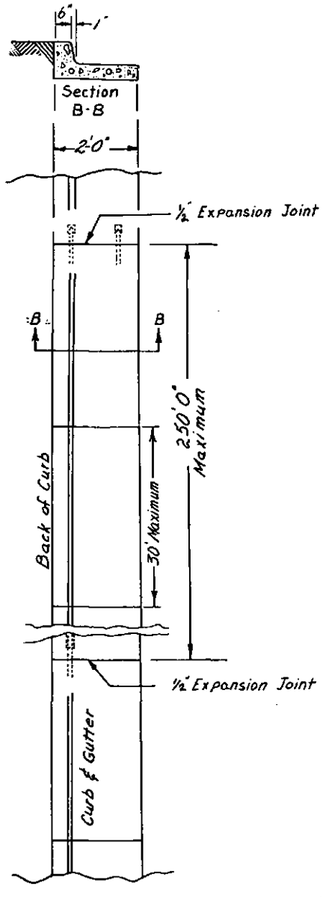


BREAKAWAY CHAIN LINK FENCE POST DETAIL

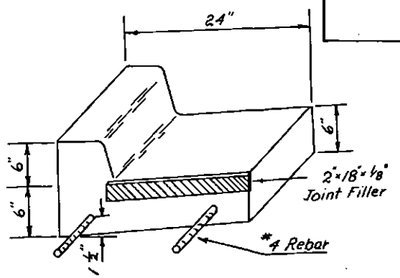
To be used in lieu of concrete post setting in Standard Drawing F-01.00

MINIMUM DEPTH, SELECTED MATERIAL	
STATION To STATION	DEPTH
	③
"B" 67+09.71 - "B" 73+25	5.0'
"B" 73+25 - "B" 82+50	2.5'
"B" 82+50 - "B" 91+00	4.0'
"B" 91+00 - "B" 96+50	2.5'
"B" 96+50 - "B" 108+00	2.5'
"B" 108+00 - "B" 115+25	2.0'
"B" 115+25 - "B" 122+00	4.0'
"B" 122+00 - "L" 126+75	2.0'
"L" 126+75 - "L" 141+65	2.5'
"L" 141+65 - "L" 173+00	2.5'
"L" 173+00 - "L" 190+00	4.0'
"L" 190+00 - "L" 215+00	3.0'
"L" 215+00 - "L" 227+00	3.5'
"NW" 66+41 - "NW" 71+00	5.0'
"NE" 181+46 - "NW" 177+08	5.0'
"TL" 10+00 - "TL" 13+00	2.5'
"TR" 10+00 - "TL" 14+17	2.5'
"CR" 212+75 - "CR" 216+75	2.0'
"CR" 216+75 - "CR" 219+40	4.0'
"BV" 10+34 - "BV" 14+80	1.0'
"TG" 6+24 - "TG" 14+20	1.5
"BH" 10+56 - "BH" 15+03	2.0'
"SE" 5+79 - "SE" 12+40	2.0'
"SC" 5+79 - "SC" 9+43	2.0'
"FS" 9+97 - "FS" 20+33	2.0'
"FM" 10+20 - "FM" 13+50	4.0'
"FO" 12+08 - "FO" 20+96	4.0'
"FO" "FI" 20+96 - "FO" "FI" 30+72	5.0'
"FI" 31+94 - "FI" 33+40	3.5'
"FV" 0+20 - "FV" 6+00	3.0'
"EO" 19+92 - "EO" 28+00	2.0'
"EO" 28+00 - "EO" 33+33	1.5'

③ Minimum depth of Selected Material for minor lines not listed, shall be the same as the adjoining line.



CURB & GUTTER DETAIL



SCORE JOINT DETAIL

NOTES

1. Rebar has overlap of 20 times the diameter of the rebar.
2. Cross Section to be scored as directed by the Engineer.
3. All materials shall meet project specifications.
4. See Standard Drawing I-20.01 for curb details use Type I Standard Curb & Gutter.

SLOPE TABLE		
RATIO ②	FILL	CUT
6:1	0'-5'	—
4:1	5'-10'	0'-5'
3:1	10'-15'	5'-10'
2:1	Over 15'	Over 10'

② Except as required to remain within R/W or construction easement.

SUB-EXCAVATION TABLE				
IN TRANSITION OR BEGIN STA.	BEGIN STATION FULL DEPTH	APPROX EL. ①	END STATION FULL DEPTH	OUT TRANSITION OR END STA.
"B" 68+00	"B" 69+25	427.0	"B" 72+00	"B" 73+25
20:1	"B" 76+25	431.0	"B" 76+50	20:1
20:1	"B" 85+00	433.0	"B" 88+00	20:1
20:1	"B" 95+50	425.0	Bridge	—
20:1	"B" 117+50	427.0	"B" 117+75	20:1
20:1	"L" 127+75	427.0	"L" 128+00	20:1
20:1	"L" 131+00	432.0	"L" 131+50	20:1

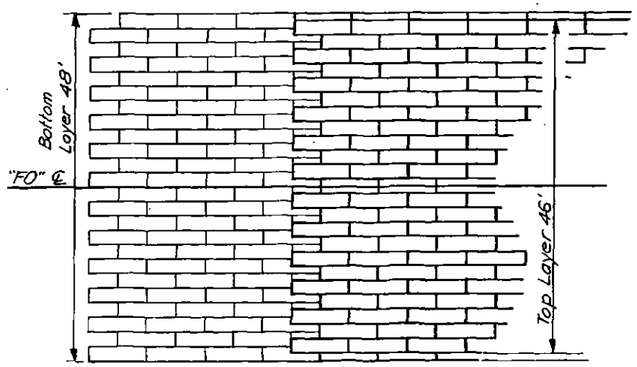
Note: These limits are approximate only and are subject to revisions by the Engineer.

① Depths and lengths of sub-excavation may be adjusted, as determined by the Engineer.

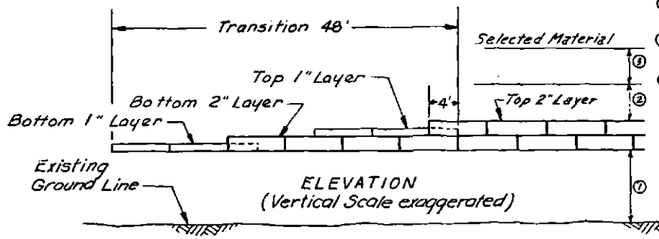
MISCELLANEOUS DETAILS

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	13	126

NOTE: Begin 1" Insulation Transition at "FO" 13+52. Begin Full 4" at "FO" 14+00 & End Full 4" at "FO" 20+48. End Transition at "FO" 20+96.

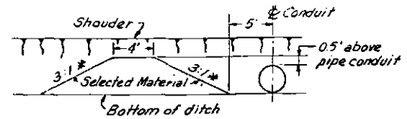


PLAN VIEW



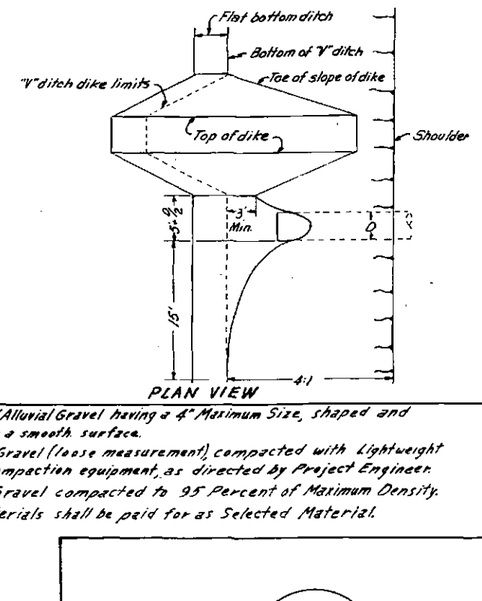
INSULATION TRANSITION

For Plan & Profile see Sheet 33



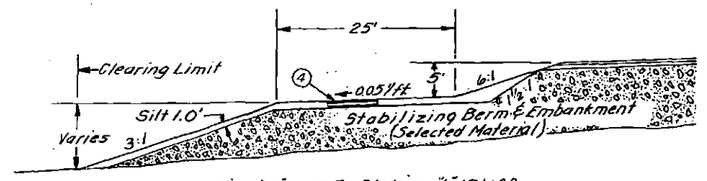
DITCH DIKE CROSS SECTION

* Slope facing oncoming traffic shall be 6:1

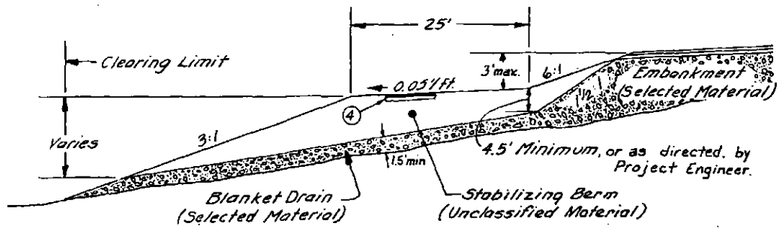


PLAN VIEW

① Minimum 0.5' Alluvial Gravel having a 4" Maximum Size, shaped and compacted to a smooth surface.
② 1' of Alluvial Gravel (loose measurement), compacted with Lightweight vibratory compaction equipment, as directed by Project Engineer.
③ 1' of Alluvial Gravel compacted to 95 Percent of Maximum Density.
Note: All Materials shall be paid for as Selected Material.



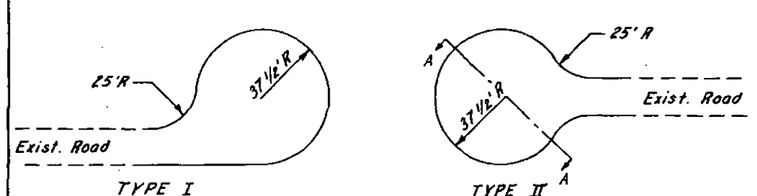
Station "E" 8+00 To Station "L" 181+00

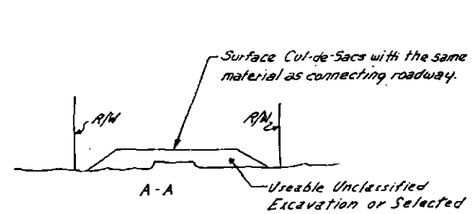


Station "L" 181+00 To Station "FL" 29+00

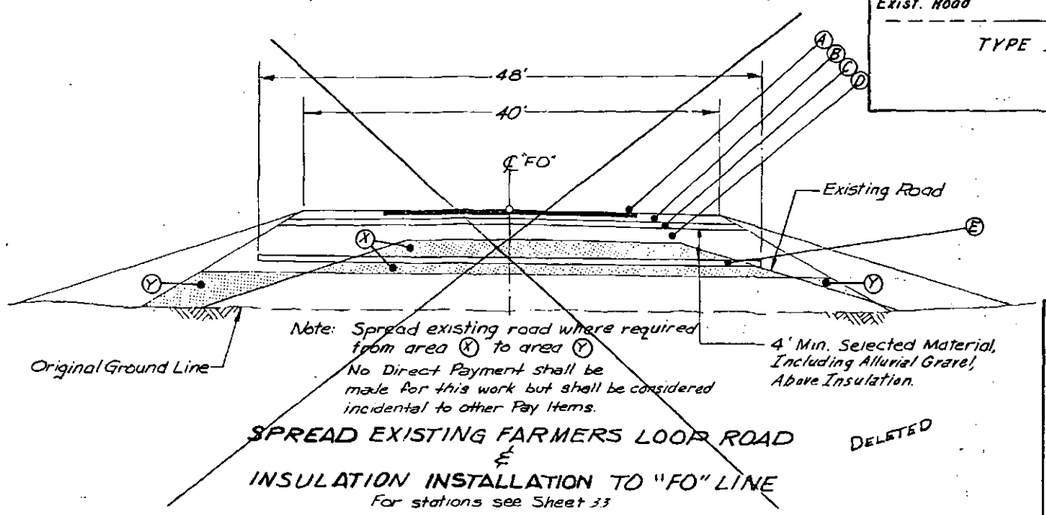
TYPICAL SECTION – EMBANKMENT STABILIZATION

④ Construct 7' pathway using 18" of Selected Material with 1½" of Hot Asphalt Pavement on top, as directed by the Engineer.





CUL-DE-SAC DETAIL For Location of Barricade see Sheet 48



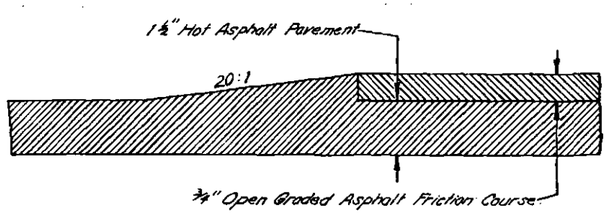
SPREAD EXISTING FARMERS LOOP ROAD
℄
INSULATION INSTALLATION TO "FO" LINE

For stations see Sheet 33

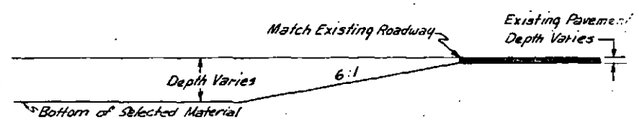
DELETED

MATERIALS

- (A) Prime Coat & Surface Treatment.
- (B) 4½" Crushed Aggregate Base Course, Grading D-1.
- (C) 6" Subbase, Grading "A"
- (D) Selected Material 4' Minimum depth.
- (E) 4" Polystyrene Insulation (See Insulation Details.)



OPEN GRADED ASPHALT FRICTION COURSE TRANSITION

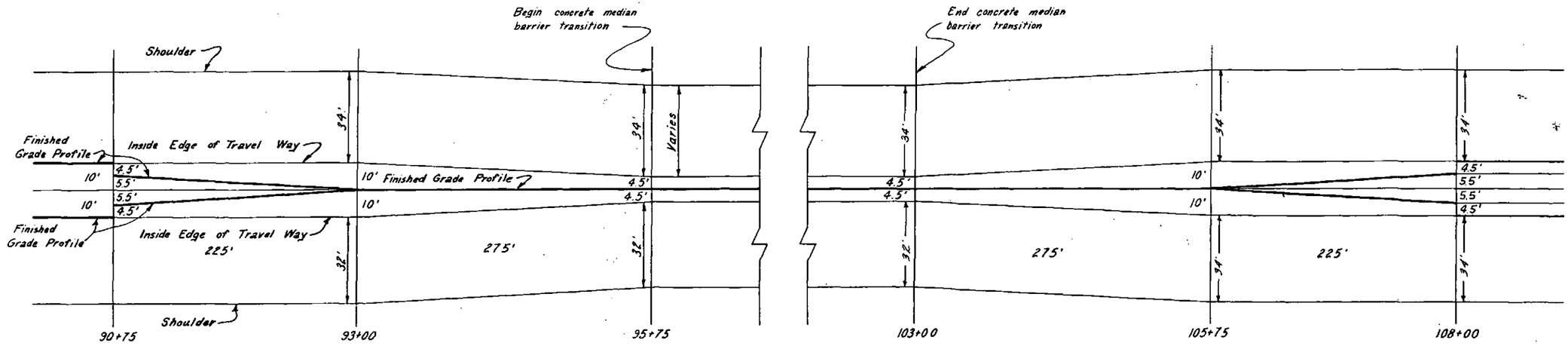


TRANSITION TO MATCH EXISTING ROADWAY

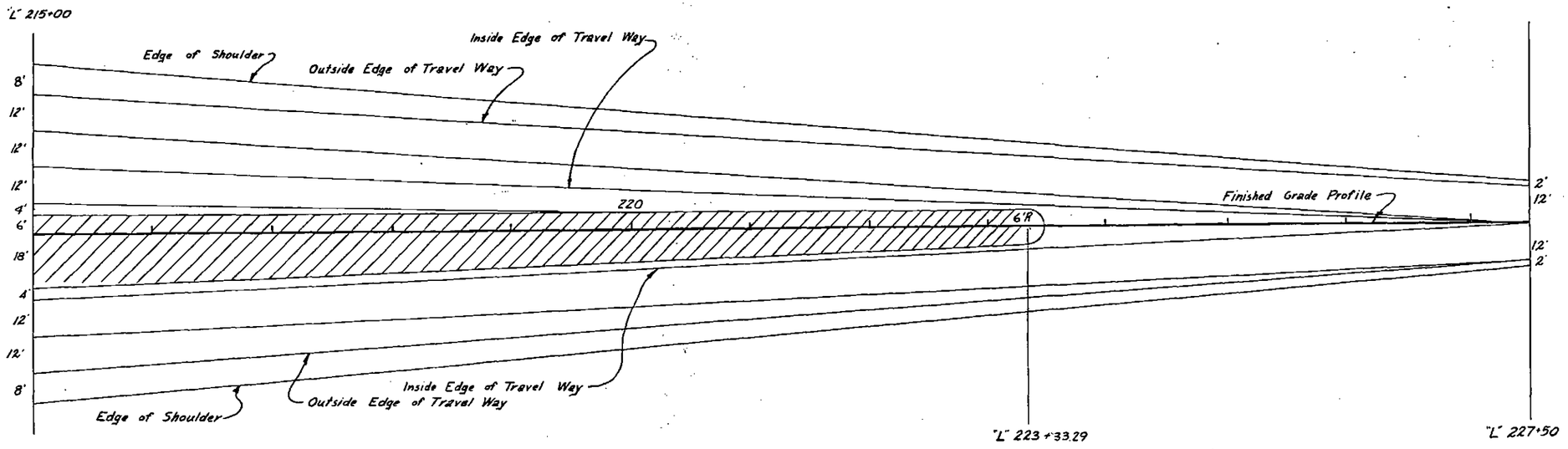
MISCELLANEOUS DETAILS

11-29-72 - W.S.E. - Added Curb & Riprap Detail
12-8-72 - W.S. - Added Riprap Table
12-19-72 - W.S. - Removed Bituminous Curb Detail

STATE	PROJECT DESIGNATION	YEAR	NO.	SHEETS
ALASKA	RF-ALF-062-4(25)	1975	14	12



CHENA RIVER BRIDGE CONTROL LINE TRANSITION

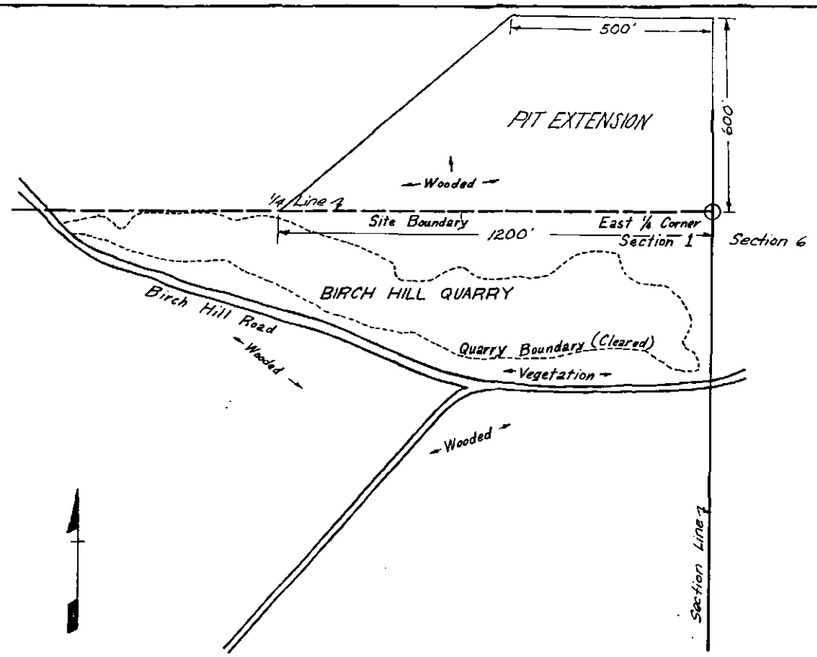


E.O.P. TRANSITION TAPER DETAIL

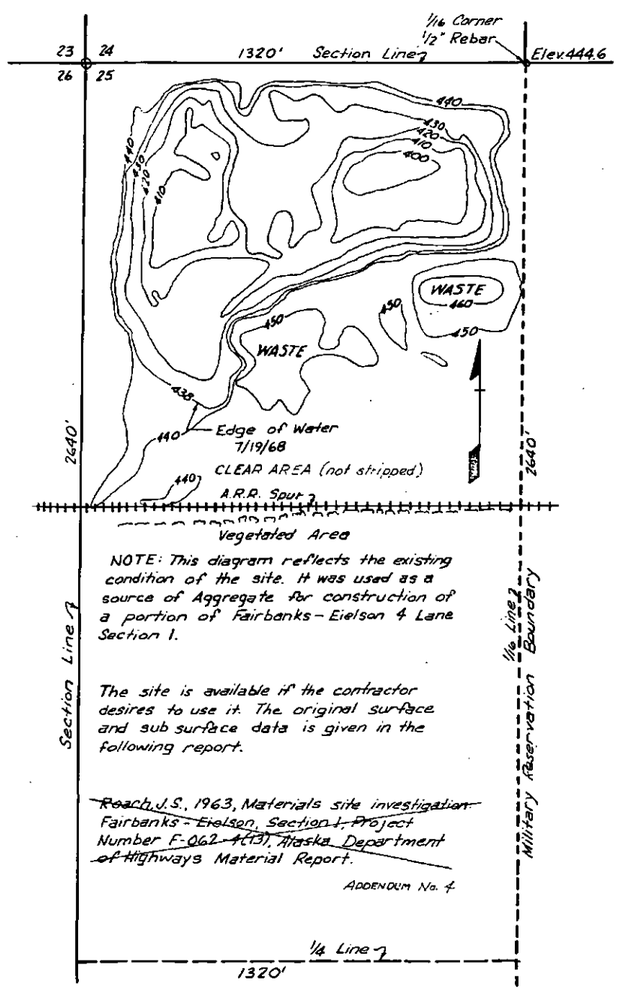
TRANSITION DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	75	14A	120

STATE FURNISHED MATERIAL SOURCES



M.S. 670-077-2



NOTE: This diagram reflects the existing condition of the site. It was used as a source of Aggregate for construction of a portion of Fairbanks - Eielson 4 Lane Section 1.

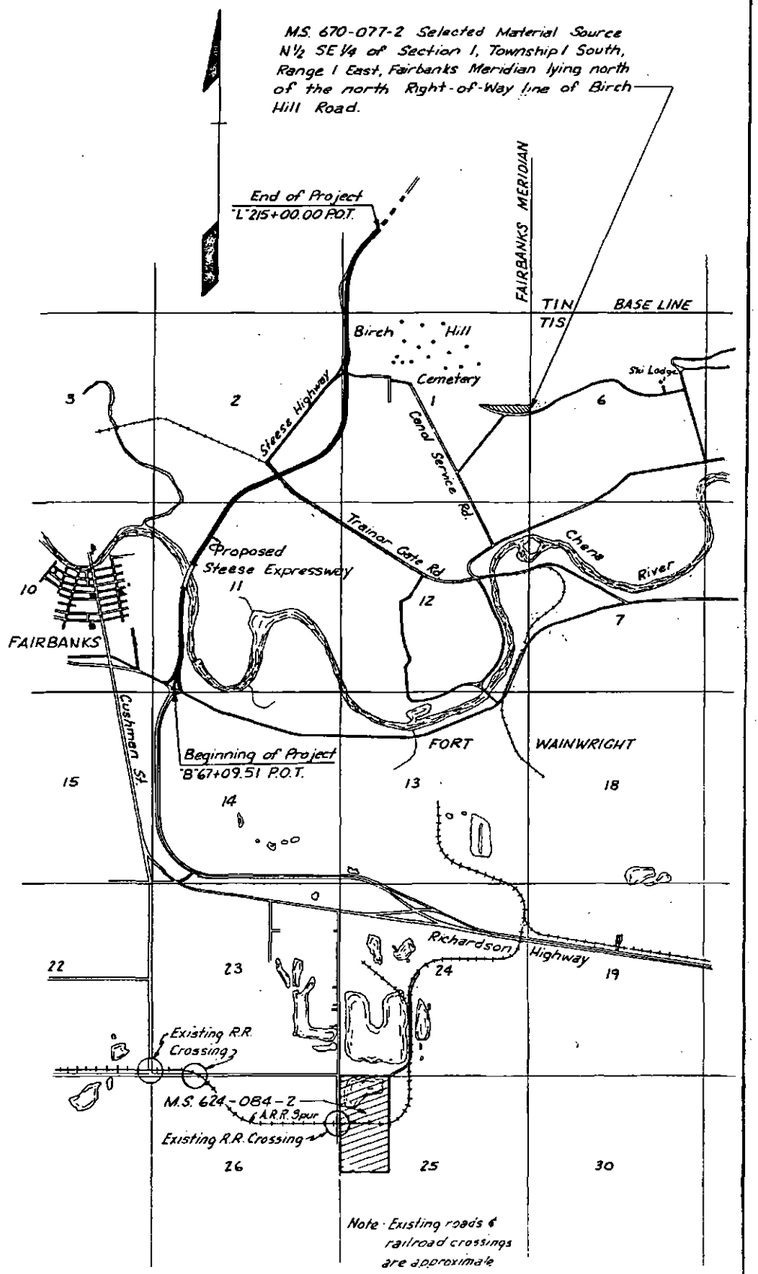
The site is available if the contractor desires to use it. The original surface and sub surface data is given in the following report.

~~Reach J.S., 1963, Materials site investigation Fairbanks - Eielson, Section 1, Project Number F-062-4(13), Alaska Department of Highways Material Report.~~

ADDENDUM No. 4

M.S. 624-084-2 NOT USED

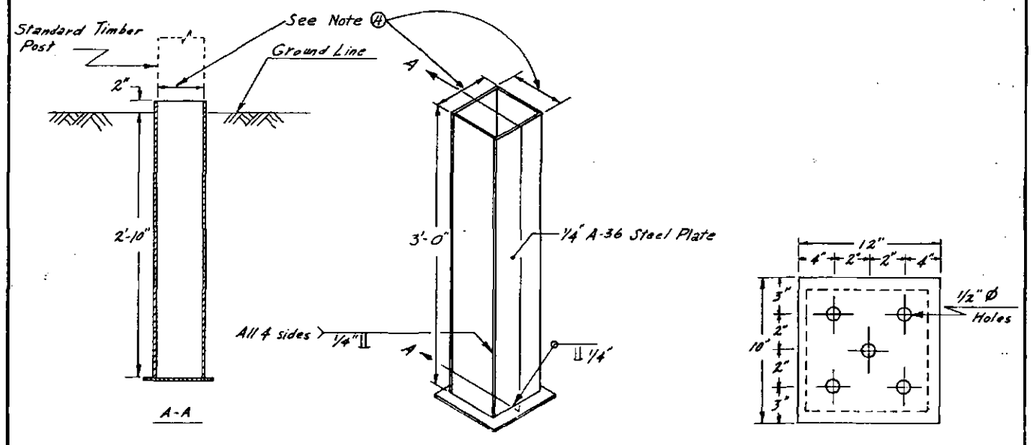
M.S. 670-077-2 Selected Material Source
N½ SE¼ of Section 1, Township 1 South, Range 1 East, Fairbanks Meridian lying north of the north Right-of-Way line of Birch Hill Road.



Note: Existing roads & railroad crossings are approximate

NOTES

1. Material for construction of Special Box For Removable Post shall be 1/4" thick A36 Steel Plate
2. Place special box at 44' Rt of "B" 85+35.15 as staked by the engineer.
3. Standard Timber Posts for installation in Special Boxes shall be 5'-0" long.
4. Box shall be constructed to allow one-quarter inch (1/4") free play between Post and inside surface of box for 6"x8" Post as shown on plans.
5. All work and materials required for construction and installation of removable posts will be considered incidental to Pay Item 606(1).

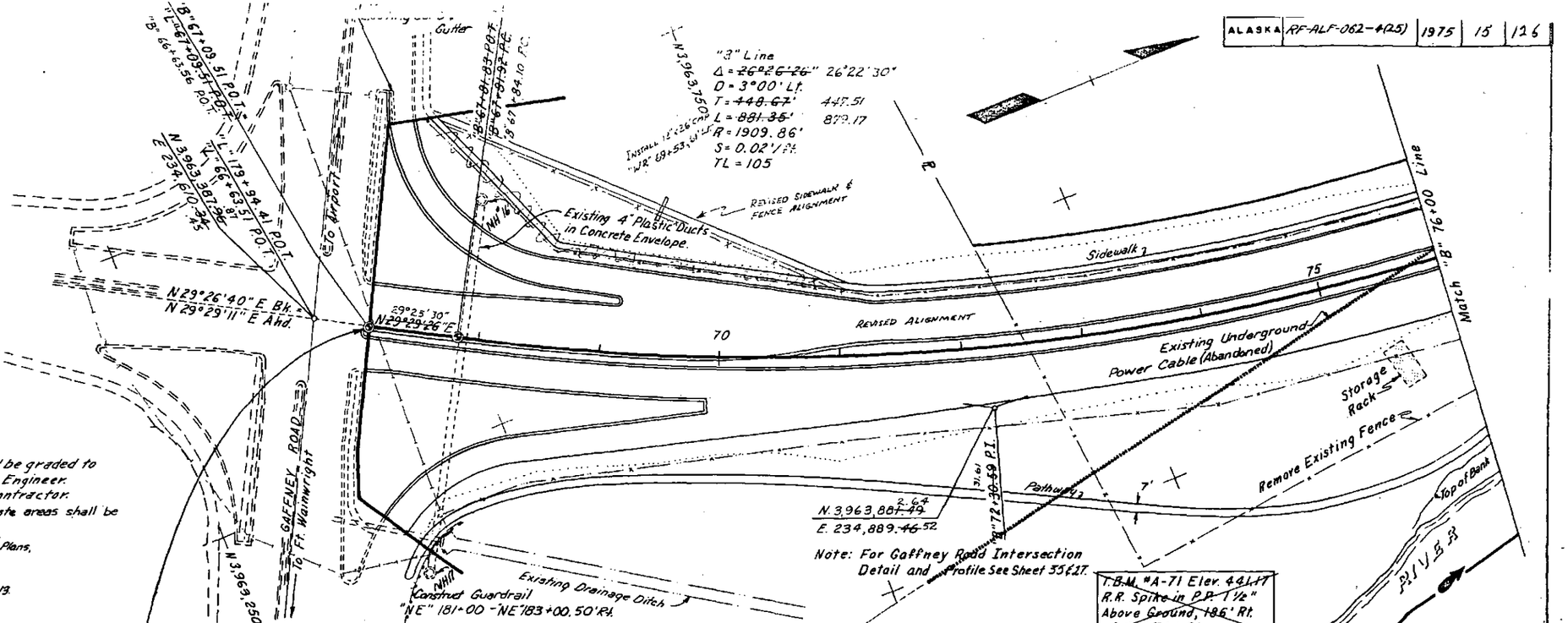


Special Box for Removable Guardrail Post at approximate "B" 85+33

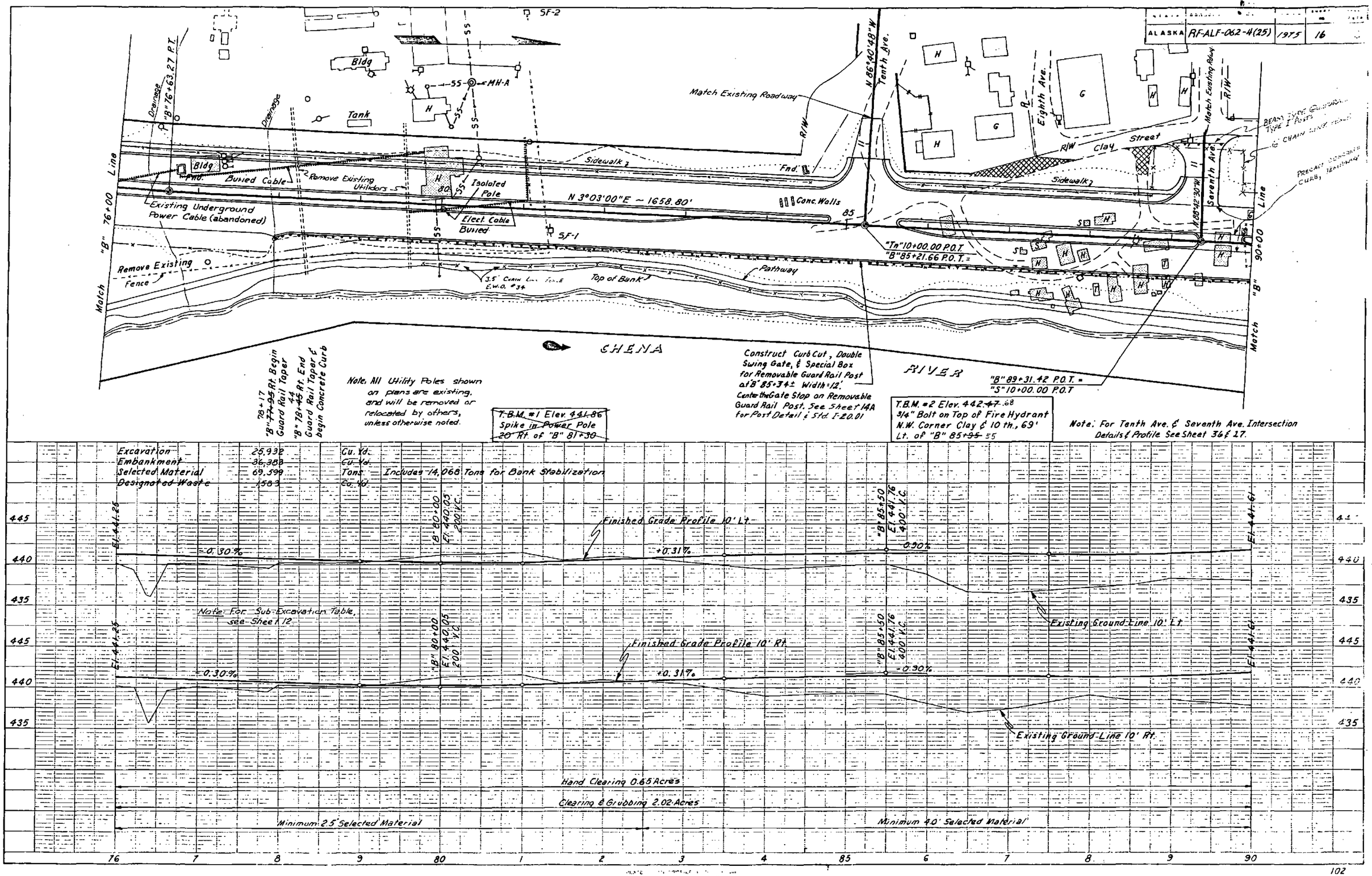
GENERAL NOTES

1. Culvert lengths and locations are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. Curve Data on this project is based on a one-degree curve with a radius of 5729.58 feet.
4. All surfacing depths shown on these plans are nominal.
5. Power and communication requiring removal & relocation will be done by others, unless otherwise noted.
6. Clearing and grubbing limits shall be a neat and orderly line established by the Engineer.
7. Miscellaneous and minor right-of-way encroachments within the construction limits at the time of construction, such as fences, signs, foundations, car bodies, etc. shall be removed by the Contractor, in accordance with Section 202 of the Standard Specifications and as directed by the Engineer. Payment will be made under Item 202 (1).
8. All unclassified excavation shall be considered as waste material and shall be used as seeding foundation on fill slopes or as berms as directed by the Engineer. Unacceptable and excess waste material shall be disposed of as stipulated in Section 203 of the Specifications.
9. All median noses and median areas of less than 8' width shall be excavated to the same depth as the adjacent roadway.
10. Existing ditches and original ground at the toe of the fill slope shall be graded to secure adequate drainage between culverts as directed by the Engineer. This work shall be be considered a subsidiary obligation of the Contractor.
11. All fill slopes, cut slopes, obliterated areas, and other designated waste areas shall be seeded as shown on the plans or as directed by the Engineer.
12. Existing known underground utilities can be found on Sewer and Water Plans, and Storm Drain Profiles.
13. For transition to match existing roadways, see Typical Drawing Sheet #13.

PLAN — NOTE BOOK — No.



PROFILE — NOTE BOOK — No.



SF-2
Bldg
Tank
MH-A
Drainage
"B" 76+63.27 P.T.
Match Existing Roadway
N 86°40'48"W
Tenth Ave.
Eighth Ave.
Clay Street
Match Existing Rdwy.
R/W
Sidewalk
Fnd.
Buried Cable
Remove Existing Utilidors
Isolated Pole
Existing Underground Power Cable (abandoned)
Elect. Cable Buried
N 3°03'00"E ~ 1658.80'
Conc. Walls
SF-1
"Tn" 10+00.00 P.O.T.
"B" 85+21.66 P.O.T. =
N 88°42'30"W
Seventh Ave.
Match "B" 76+00 Line
Match "B" 90+00 Line
Remove Existing Fence
3.5' Chain Link Fence E.W.O. #34
Top of Bank
Pathway
CHENA
RIVER
"B" 89+31.42 P.O.T. =
"S" 10+00.00 P.O.T
Construct Curb Cut, Double Swing Gate, & Special Box for Removable Guard Rail Post at "B" 85+34± Width = 12'. Center the Gate Stop on Removable Guard Rail Post. See Sheet 14A for Post Detail & Std. I-20.01
"B" 78+17 Rt. Begin Guard Rail Taper
"B" 78+44 Rt. End Guard Rail Taper & begin Concrete Curb
Note. All Utility Poles shown on plans are existing, and will be removed or relocated by others, unless otherwise noted.
T.B.M. #1 Elev. 441.86 Spike in Power Pole 20' Rt. of "B" 81+30
T.B.M. #2 Elev. 442.68 3/4" Bolt on Top of Fire Hydrant N.W. Corner Clay & 10 th., 69' Lt. of "B" 85+55
Note: For Tenth Ave. & Seventh Ave. Intersection Details & Profile See Sheet 36 & 27.
Excavation 25,932 Cu. Yd.
Embankment 36,383 Cu. Yd.
Selected Material 69,599 Tons — Includes 14,068 Tons for Bank Stabilization
Designated Waste 1583 Cu. Yd.
El. 441.25
"B" 80+00 El. 440.05 200' V.C.
"B" 85+50 El. 441.76 400' V.C.
El. 441.61
Finished Grade Profile 10' Lt.
-0.30%
+0.31%
-0.90%
Note: For Sub-Excavation Table, see Sheet 12
Existing Ground Line 10' Lt.
Finished Grade Profile 10' Rt.
Existing Ground Line 10' Rt.
Hand Clearing 0.65 Acres
Clearing & Grubbing 2.02 Acres
Minimum 2.5' Selected Material
Minimum 4.0' Selected Material
445
440
435
76
7
8
9
80
1
2
3
4
85
6
7
8
9
90

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	17	126

① "TC" Curve Data
Δ = 25°04'51"
D = 31°49'51"
T = 40.04'
L = 78.80'
R = 180'

Note: For "TC" Line Profile see Sheet 27

"TR" 9+00.24 P.O.T.
"TL" 9+90.24 P.O.T.

Note: For Third Avenue Intersection Detail & Profile See Sheet 37 & 38.

Second Ave. R/W
Clay Street
R/W
Type III Timber Barricade
Fnd.
Note: For Parking Lot Detail see Sheet 38

Cemetery
Clay Street
Bldg
Market Existing Pkwy
"TC" 12+46.80 P.O.T.
"TC" 11+25.44 P.I.
"TC" 11+25.64 P.A.C.
"TC" 12+25.24 P.O.T.
6796
2232
R/W
71.38
34.86'
N 00°25'00" E 12
N 25°29'57" E - 135.00'
S 64°30'03" E
Third Avenue
"TC" 10+00.00 P.O.T.
"TR" 12+03.21 P.I.
"TL" 12+03.21 P.O.T.
6' Chain Link Fence
BEAM TYPE GUARD RAIL TYPE 1 POSTS
N 15°54'32" E
"TR" 13+07.12 P.O.T.
51.50 Lt. "B" 95+89.01 P.O.C.
"TR" 13+03.12 P.T.
20'
95
100
36.5'
19.88
38.5'
See Sheet 10 for Curb Transition Detail
Begin Bridge
"B" 96+73.72
Concrete Median Rainbow
RIVER
"B" 101+35.50 P.I.
N 3,966,858.17
E 235,048.07
"TR" 15+79.07 P.O.T.
28.50' Lt. "B" 98+56.36 P.O.C.
End Bridge
"B" 102+54.66
Sidewalk
Match "B" 103+00 Line
Com. Sidewalk Extended to Meet Existing Sidewalk
Construct 85' Asphaltic Sidewalk
Drive
Type III Timber Barricade
Slater
R/W
Old Pavement Not Removed See Bridge Plans
"B" 90+00 Line
Match "B"
Broken Concrete Curb, Temporary
42'
N 3°09'00" E - 1658.80'
7' Pathway
Top of Bank
N 3,965,985.98
E 235,001.60
"B" 93+22.07 P.O.C.
"TL" 12+97.59 P.O.T.
"B" 93+45.85 P.O.C.
5.5' Chain Link Fence
S.W.C. 34 & 35
CHENA
"B" Curve Data
Δ = 33°54'41"
D = 2°00" Rt.
T = 873.43'
L = 1695.57'
R = 2864.79'
S = 0.047 Ft.
TL = 180'
"SL" 10+00.00 P.C.
Match to Existing Pkwy.
N 17°55'00" W
R/W
N 17°55'00" W
Slater
Eagle Ave Detail
Note: For Slater Drive & Eagle Ave Detail & Profile See Sheet 29, 39 & 27.
N 37°05'00" E
Eagle Avenue
Slater Drive
20
N 17°55'00" W
R/W
Con. Sidewalk
Slope Wall Detail

T.B.M. #3 Elev. 438.31
Top of Iron Pipe, Panel Point L-34, 155' Lt. of "B" 90+80

Note: All Utility Poles shown on plans are existing, and will be removed or relocated by others

T.B.M. #20 Elev. 441.07
Spike in 14" Cottonwood 170' Lt. of "B" 93+50
(Inside Cemetery Fence)

T.B.M. #21 Elev. 440.36
Spike in 14" Cottonwood 350' Lt. of "B" 97+00

T.B.M. #4 Elev. 438.26
Top of Rebar, Panel Point L-35 A at Third Ave. & Clay Street

T.B.M. #C-71 Elev. 439.77
Nail in 7" Aspen 161' Lt. at "B" 95+65

T.B.M. #5 Elev. 439.32
Spike in Power Pole #3197 at Second & Clay NW Corner

T.B.M. #22 Elev. 439.81
Spike in 6" Cottonwood 100' Rt. of 101+00

BM-EM #33A Elev. 435.87
Top of Pipe, 230' Lt. of "B" 99+70.

Excavation	19,323	Cu. Yd.
Embankment	56,806	Cu. Yd.
Selected Material	106,109	Tons
Designated Waste	3,751	Cu. Yd.

Includes 3,519 Tons for Parking Lot and 2,742 Tons for Bank Stabilization.

Note: For Sub-Excavation Table, see Sheet 12

Finished Grade Profile 10' Lt.
Existing Ground Line 10' Lt.
Finished Grade Profile 10' Rt.
Existing Ground Line 10' Rt.
Transition Finished Grade Profile From 5.50' Lt. & Rt. to ℄
See Sheet No. 14 for Details
Finished Grade Profile on ℄
Existing Ground Line ℄
Low Steel 36.5' Rt. of ℄
Design H.W. Elev. 439.3
Hand Clearing 0.24 Acres
Clearing & Grubbing 1.98 Acres
Full Depth Selected Material
Min. 4.0' Select Mat'l

El. 441.61
El. 440.26
600' V.C.
El. 442.30
10' Lt.
El. 442.39
5.50' Lt. & Rt.
El. 441.16
El. 440.26
600' V.C.
El. 442.30
10' Rt.
El. 458.35
700' V.C.
El. 451.35
0.50%
+2.00%
0.30%
+2.00%
+2.00%
-2.00%
Begin Bridge "B" 96+73.72
End Bridge "B" 102+54.66

BRIDGE NO. 231

HYDROLOGIC & HYDRAULIC SUMMARY
Drainage Area: 1,980 Sq. miles
Design Flood Frequency: 50 Years
Design Discharge: 32,000 c.f.s.
Design Highwater: El. 439.3

90 1 2 3 4 95 6 7 8 9 100 1 2 3

PROFILE
NOTE BOOK
No.

103

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	~~AF~~-ALF-062-4(25)	1975	18	126

Market Basket

Note: Construction Between "B" 102+00 and "B" 112+00 Will Not Block Traffic to Island Homes Until Eagle Street is Opened to Traffic.

Note: For Third Street Intersection detail and Profile See Sheets 41 & 27

Existing Footpath

Dry Slough

Spruce Ditch

Front Street

Type I Cul-de-Sac

Type III Timber Barricade

Type II Cul-de-Sac

Type III Timber Barricade

Sign Shop

"TH" 9+75

"TH" 10+63.66 P.O.T.

"B" 112+46.11 P.O.T.

"TH" 11+32.53 P.O.T.

S 52°43'30" E

Third Street

Dawson Ave.

Type III Timber Barricade

Gas

Main Line

"B" 103+00

Begin Transition "B" 108+65.06

End Transition "B" 110+17.64

"B" 117+00

Match Line

18" x 18" C.M.P.

See Sheet 10 for Curb Transition Detail

105

110

115

Sign

103+33.91 Taper to join Bridge Median Barrier

103+13

44'

48'

85'

Shop

N 36°57'41" E ~ 931.67'

Bldg.

Sidewalk

Pathway

17'

Note: 7' Pathway changes to a 5' Sidewalk at "B" 107+69 57' Rt.

Note: Remove all existing Pavement, Curb and Gutter, and sidewalk within the "B" line Right of Way from "B" 100+00 to "B" 113+00, as directed by the Engineer.

S 52°14'00" E

"TH" 13+05

Curve Data
Δ = 33°54'41"
D = 2°00" Rt.
T = 873.43'
L = 1695.57'
R = 2864.79'
S = 0.04'/ft.
TL = 180'

Apt.

Type I Cul-de-Sac

Second Street

Type III Timber Barricade

Type II Cul-de-Sac

"B" 110+17.64 P.T.

Fourth Street

Type III Timber Barricade

Note: All Utility Poles Shown on plans are existing, and will be removed or relocated by others.

~~T.B.M. #D-71 Elev. 438.68~~
Nail in 7" Spruce, 140' Lt. of "B" 103+44

~~T.B.M. #L-37~~
Elev. 434.67
135' Lt. of "B" 104+10

T.B.M. #23 ELEV. 439.08
SPIKE IN COTTONWOOD 95' RT OF 110+50.

~~T.B.M. #E-71 Elev. 437.60~~
Chisel Cut (Square) in Corner of Catch Basin 37.7' Lt. "B" 111+68

~~BM F.M. 33C Elev. 436.98~~
Top of Monument in Case at 3rd. & Dawson

~~T.B.M. L-40-2 Elev 438.39~~
Brass Cap at 3rd. & Forty Mile Road

TBM #24 ELEV. 437.71
SPIKE IN 10" SPRUCE 70' RT. OF 117+00.

Excavation	26,940	Cu. Yd.
Embankment	49,723	Cu. Yd.
Selected Material	92,873	Tons
Designated Waste	3,293	Cu. Yd.

455 / 450 / 445 / 440 / 435 / 430

El. 451.35

-2.00%

Finished Grade Profile ℄

Existing Ground Line

El. 441.73 10' Lt.

El. 441.39 55' Lt. ℄ Rt. 55' Lt. ℄ Rt.

El. 441.36 10' Rt.

"B" 110+25 El. 437.09 600' V.C.

"B" 110+30 El. 437.17 600' V.C.

-2.00%

Finished Grade Profile 10' Lt.

+0.347%

Existing Ground Line 10' Lt.

El. 439.49

Finished Grade Profile 10' Rt.

+0.275%

Existing Ground Line 10' Rt.

El. 439.10

Note: For Sub-Excavation Table, see Sheet 12.

Transition Finished Grade Profile From ℄ to 5.50 Lt. ℄ Rt.
See Sheet 14 for Detail

Hand Clearing 0.22 Acres

Full-Depth Selected Material

Clearing & Grubbing 0.88 Acres

Minimum 2.0' Selected Material

Minimum 4.0' Selected Material

103 4 105 6 7 8 9 110 1 2 3 4 115 6 117

PLAN — NOTE BOOK — No.

PROFILE — NOTE BOOK — No.

STATE	OFFICIAL DESIGNATION	YEAR	SHEET	NO.
ALASKA	RF-ALF-062-4(25)	1975	19	125

Note: For College Road - Steese Highway Intersection Details & Profile see Sheets 42 & 30

Note: Sloughs between "B" 125+00 & "L" 132+00 left shall be filled with waste as directed by the Engineer. Payment will be considered incidental to other Pay Items.

Pumpin's Station
Type I Cul-de-Sac
Timberland
R/W
College Road
S 47°08'22" E
"B" 122+87.33 P.I.
Shop
Type III Timber Barricade
Chase Drive
Dry
Match "B" 117+00 Line
Wood Retaining Wall
"B" 119+49.31 P.C.
120
N 36°57'41" E ~ 931.67'
"B" 121+45.95 P.O.C.
"CR" 219+93.55 P.O.T.
220
96.9'
125
Apt.
N 57°02'04" E 2,507.22'
Type III Timber Barricade
130
Channel
Old Slough
Metal Framing
Match "L" 131+00 Line
Fifth Drive
Street
Type I Cul-de-Sac
"CR" 220+95.50
Curve Data
Δ = 20°04'23"
D = 3°00' Rt.
T = 338.02'
L = 669.10'
R = 1909.86'
S = 0.03'/ft.
TL = 120'
Adak Avenue
"B" 126+18.41 P.T. = "L" 126+70.64 P.O.T.
Steel Beam
Type III Timber Barricade
Note: Transition curb & gutter from "L" 128+00 to "L" 128+10.
Note: All Utility Poles shown on plans are existing and will be removed or relocated by others.
Type I Cul-de-Sac

T.B.M. #F-71 Elev. 437.46 Nail in 7" Birch, 117' Lt. of "B" 120+39

T.B.M. #Z-96 Elev. 441.99 Large Round Headed Spike in West Side of P.P. 93' Lt. of "CR" 215+40

T.B.M. #A Elev. 440.86 Spike in P.P. #1858 125' Lt. of "B" 124+15

TBM #25 Elev. 440.26 SPIKE IN POWER POLE 170' Rt. of 125+00

Excavation	25,566	Cu. Yd.
Embankment	33982	Cu Yd.
Selected Material	44670	Tons
Designated Waste	1,647	Cu. Yd.

Note Quantities do not include College Road

B 121+50 El. 440.93 400' V.C.
B 125+50 El. 440.02 200 V.C.
B 125+50 El. 438.83 200 V.C.
B 121+50 El. 440.33 400' V.C.
L 130+00 El. 442.70 200 V.C.
L 130+00 El. 442.70 200 V.C.

+0.347%
-0.228%
+0.674%
+0.00%
+0.275%
-0.376%
+0.973%
0.00%

El. 439.37
El. 439.70
El. 442.70
El. 442.70

Existing Ground Line 10' Lt.
Finished Grade Profile 10' Lt.
Existing Ground Line 10' Rt.
Finished Grade Profile 10' Rt.

EQUATION "B" 126+18.41 P.T. = "L" 126+70.64 P.O.T.
EQUATION "L" 128+76.44 POT = "L" 128+70.64 P.O.T.

Note For Sub-Excavation Table see Sheet 12.

Clearing & Grubbing 2.57 Acres

Minimum 4.0' Selected Material
Minimum 2.0' Selected Material
Minimum 2.5' Selected Material

445 440 435

117 8 9 120 1 2 3 4 125 6 7 8 9 130 1

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, No., DRAWN, CHECKED, & M.V. NOTED, STEESE HIGHWAY COCEAN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-082-4(25)	1975	20	36

Note: For Trainor Gate intersection Detail see Sheet 44

Note: Construct 125' concrete plank railroad crossing @ "L" 137+68.

Future Overpass Slope Limits

Shop

Type III Timber Barricade

Road

End Fence at R/W Line

R.R. R/W

Install 12" CMP Sta 139+32 92' Lt.

Match Exist. El. 441.05

Grade to Drain 12" x 80' CMP

Install 1-24" ±185' Pipe Casing and 1-30" ±185' Pipe Casing for Future Utilities

Begin Transition "L" 141+65.00

Future Overpass Slope Limits

Green House

Green House

SPECIAL DITCH

Match "L" 131+00 Line

Match "L" 145+00 Line

Channel

Slough

12" Pipe Conduit (Grade to Drain)

Railroad

135

N 57°02'04"E 190 ~ 2507.22'

"L" 138+11.28 P.O.T. = "TG" 10+00.00 P.O.T.

See Intersection Detail for median nose detail

Old

Type II Cul-de-Sac

Ditch Out

Alaska

Gate

Future Overpass Slope Limits

Type III Timber Barricade

End Fence at R/W Line

R.R. R/W

Kutter

Blair

Future Overpass Slope Limits

Note: All utility poles shown on plans are existing, and will be removed or relocated by others.

Note: Work around compost pile and green house on parcel 77, Lt "L" 144+80± through June 30, 1975.

TBM #27 Elev. 442.66
Spike in 6" Spruce 120' Right of Sta 131+25.

U.S.B.M. #1 Elev. 440.44
Brass Cap under N.C. Cat Sign at Trainor Gate & Steese

T.B.M. #1 Elev. 441.52
P.K. Nail Pavement of Trainor Gate, 75' Lt. of "L" 138+00

TBM #28 Elev. 442.68
Spike in 10" Spruce 150' Lt. of 136+00

TBM #29 Elev. 442.83
Spike in 6" Spruce 130' Lt. of 142+50

Excavation	9989	Cu. Yd.
Embankment	18,798	Cu. Yd.
Selected Material	35,335	Tons
Designated Waste	1130	Cu. Yd.

Finished Grade Profile 10' Lt.

Finished Grade Profile 10' Rt.

El. 442.70

"L" 137+67.1 ℄ A.R.R. Spur 10' Lt.

"L" 137+69.3 ℄ A.R.R. Spur 10' Rt.

El. 442.70

"L" 139+50 No V.C. El. 442.70

"L" 141+65.00 El. 443.49, 10' Lt. Transition

"L" 145+00 El. 445.24 16.78' Rt. No V.C.

"L" 145+00 El. 445.24 16.78' Lt. No V.C.

0.00 %

+0.462 %

El. 442.3 Lt. Rail (Exist.)

El. 442.2 Rt. Rail (Exist)

Existing Ground Line 10' Lt.

Existing Ground Line 10' Rt.

Note for Sub Excavation Table see Sheet 12

Equalizer El. 439.0

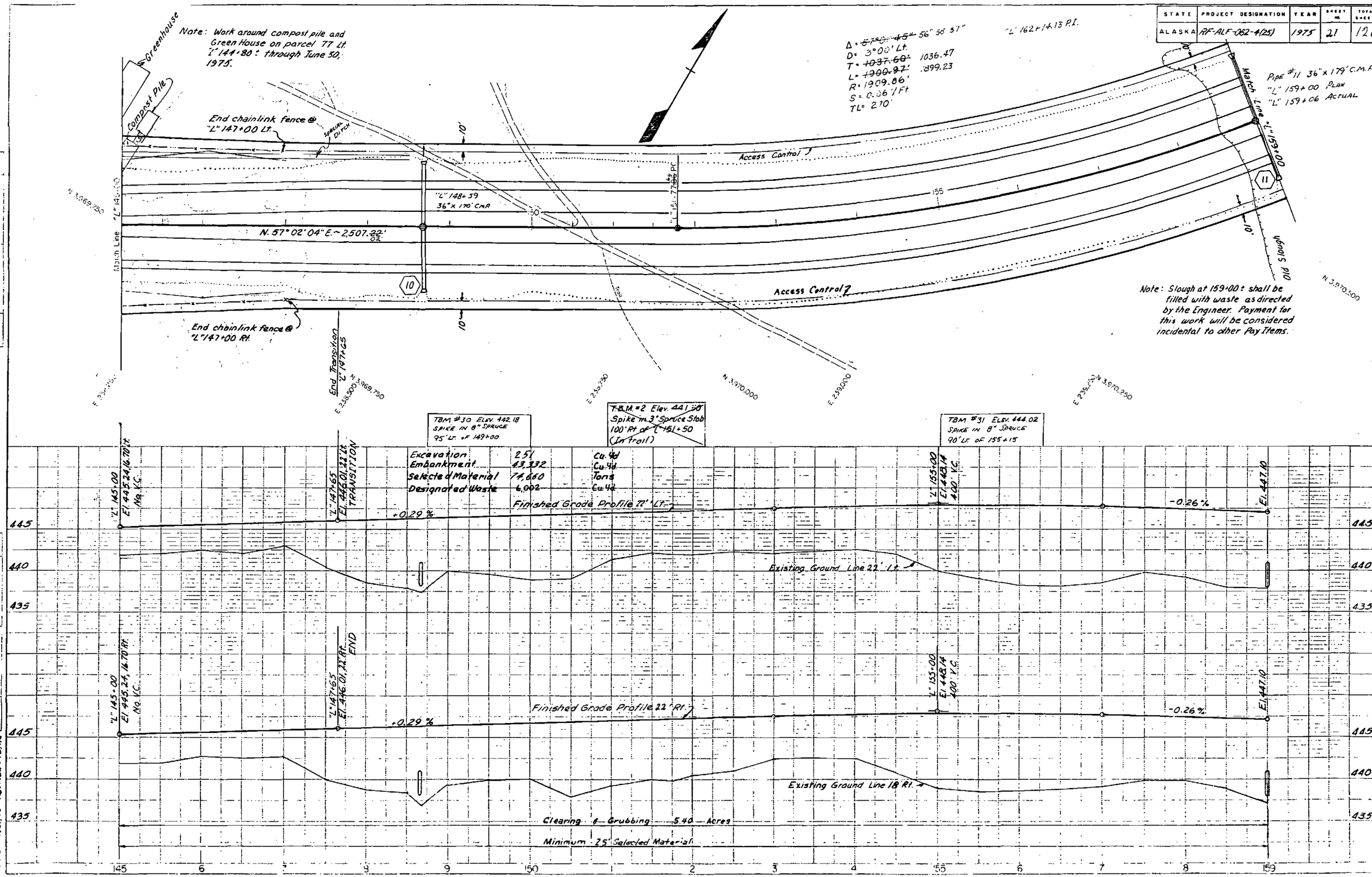
Clearing & Grubbing 3.67 Acres

Minimum 2.5' Selected Material

445 440 435

131 2 3 4 135 6 7 8 9 140 1 2 3 4 145

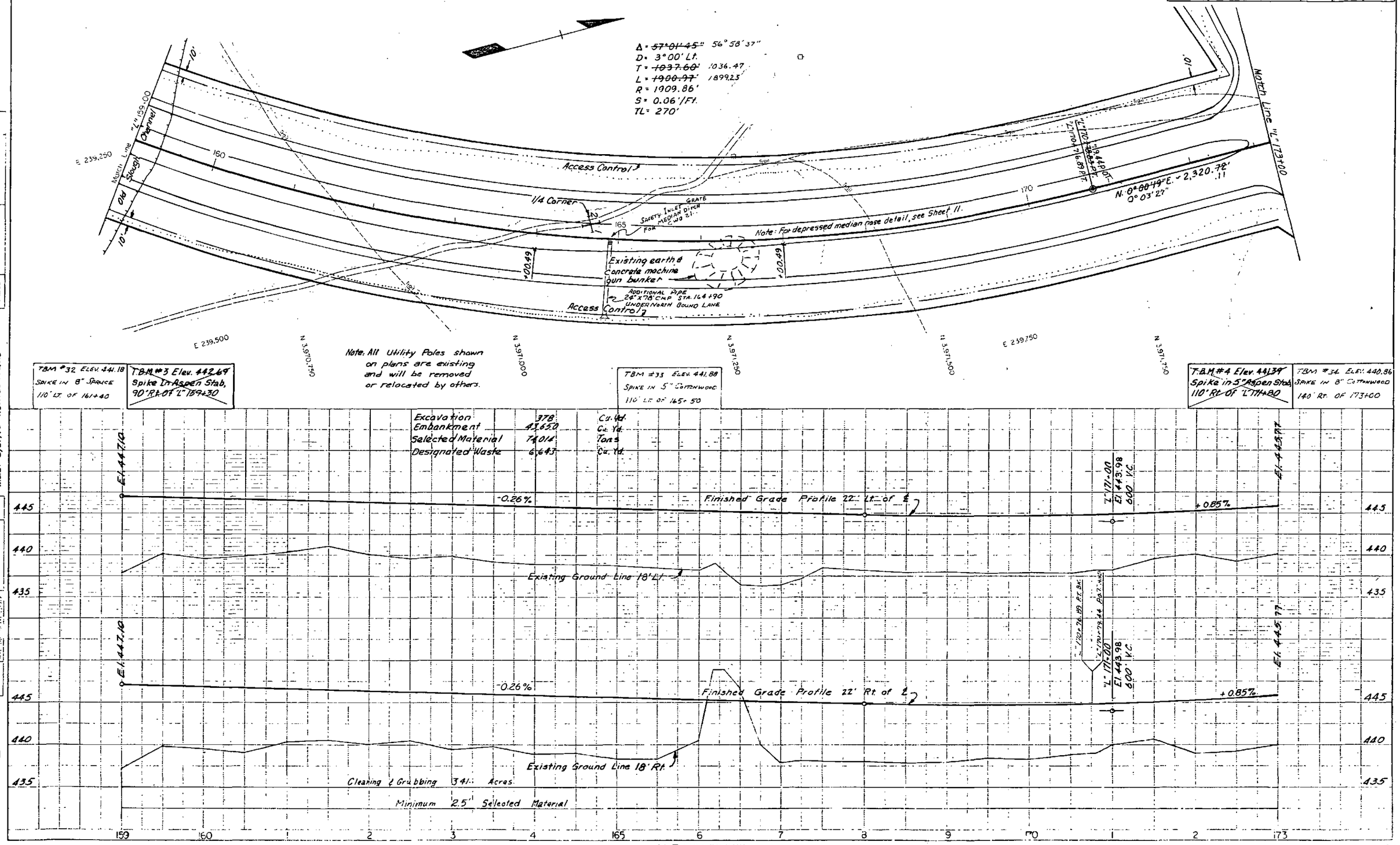
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	21	126



W.S.E. - 2/5/73 - Added R/W Dimensions
W.S.E. - 2/8/73 - Added Upper Plates
W.S.E. - 3/21/73 - Revised Profile
RCC - 4-25-73 - Revised slope limits

PLAN
NOTE BOOK
NO.
PROFILE
NOTE BOOK
NO.
DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	22	126



W.S.E. - 12/19/72 - Added Bunker
W.S.E. - 2/5/73 - Added R/W Dimensions
W.S.E. - 2/8/73 - Added Taper Phases
W.S.E. - 3/21/73 - Revised Profile

PLAN

PROFILE

RCC - 4-25-73 - Revised slope line

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	23	126

Note: Construct Stabilization Berm Lt. see Typical, Sheet 13.

Note: For Birch Hill - Steese Highway Intersection details & profile, see Sheets 45, 46 & 31

Note: Construct Ditch Dike at Station "L" 175+75 & "L" 183+75, see Sheet 13 for Details.

Note: Transition Rt. travelled way with finished grade profile from "L" 186+00 to "L" 206+00.

24 DELETED

12

13

7' Pathway

Access Control

182+90.18 P.O.T.

36" x 180' CMP 184+82 STA.

E 239,500

NF34

Match Line "L" 173+00

175

+12 66'

36" x 203' CMP

+39.51

180

+12 56'

+39.51

185

Match Line "L" 187+00

Note: For depressed median nose detail, see Sheet 11.

N 0°00'19" E. ~ 2320.72'

0°03'27"

Special Ditch

Access Control

25

"BH" 11+20 12" x 66' CMP

E 239,750

"BH" 11+63 12" x 62' CMP

2 DELETED

STEESE HIGHWAY

"FS" 9+96.7 P.C.

NF38

NF37

NF35

NF36

N 197,250

N 197,500

N 197,750

N 198,000

N 198,250

26

27

Existing Vault Concrete Walls

Note: Remove pole & construct access road

RW 200' LOZELLE ROAD RW

"BH" 12+35, 12" x 46' CMP & "BH" 13+00, 12" x 48' CMP Added By Letter of 6/21/74

Note: See page 46 for Details of Birch Hill Access Road

TBM # 35 Elev. 442.92. Spike in 6" Alder 160' Left of 177+00

Note: All Utility Poles shown on plans are existing and will be removed or relocated by others unless otherwise noted.

Note: For Fairhill Subdivision Access Rd details & Profile See Sheet 32.

TBM #5 Elev. 445.21 Spike in Spruce Stub 80' Lt. of "L" 181+90

TBM #36 Elev. 447.22 Spike in 4" Spruce 130' Lt. of 187+80

Excavation	1323	Cu. Yd.
Embankment	69,264	Cu. Yd.
Selected Material	120,939 ①	Tons
Designated Waste	9,094	Cu. Yd.

① Includes 16,370 Tons for Subsidence

For "SC", "SE", "BH" Quantities See Sheet 31.

Elev. 445.77

Finished Grade Profile, 22' Lt. of ℄ +0.85%

Existing Ground Line 18' Lt.

Elev. 457.58

Elev. 446.15

Elev. 459.94

BEGIN TRANSITION "L" 186+00 Finished Grade Profile 22' Rt.

+2.948% 2.679%

"L" 186+00 V.P.I. Elev. 456.73 400' V.C.

"L" 185+55.97 V.P.I. Elev. 458.36 888.06 V.C.

Elev. 445.77

Finished Grade Profile, 22' Rt. of ℄ +0.85%

Existing Ground Line 18' Rt.

455 450 445 440 435

460 455 450 445 440

Hand Clearing 6.43 Acres

Clearing & Grubbing 0.18 Acres

Minimum 4.0' Selected Material

173 4 175 6 7 8 9 180 2 3 4 185 6 187

PLAN NOTE BOOK NO —

PROFILE NOTE BOOK NO —

4SE - 2/5/73 - Added R/W Dimensions
WSE - 8/8/73 - Added Taper Phase
RCC - 9-25-73 Revised slope staking

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	24	126

Note: Sta. "L" 190+00 Lt Remove approx. 100' Existing Guardrail as directed by Engr. To be paid for under Item 202(1)

Type III Timber Barricade

Future 7' Pathway

Type I Cul-de-sac

Note: Obliterate and Construct drainage ditch (Not a Pay Item.)

Note: Construct Stabilizing Berm Lt See Sheet 13 for Details.

Note: "L" 195+75, 350' Lt. Construct Residence Drive Approach

Stock Pile

Stock Pile

Existing Farmers Loop Rd.

7' Pathway

Access Control

Sta. 194+50 36" x 106 CMP

Safety Inlet & Outlet Grate. Median Ditch EWO 21

NF42

NF41

NF40

NF39

NF43

NF44

Match Line "L" 187+00

Match Line "L" 201+00

E 239,500

E 239,750

N 3,973,500

N 3,973,750

N 3,974,000

N 3,974,250

N 3,974,500

N 3,974,750

N 3,975,000

N 3,975,250

N 3,975,500

N 3,975,750

N 3,976,000

N 3,976,250

N 3,976,500

N 3,976,750

N 3,977,000

N 3,977,250

N 3,977,500

N 3,977,750

N 3,978,000

N 3,978,250

N

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	25	126

Note: Transition right traveled way with finished grade profile from "L" 186+00 to "L" 206+00

Note: Construct Stabilization Berm Left. See sheet 13 for details.

Note: Thaw ponds in this area to be filled with excess waste material as directed by the Engineer.

Note For Farmers Loop Rd Intersection details, & Profile See Sheets 33, 34 & 47

Note: Fill with 6" waste and grade to drain

Bldg Existing Parking Area

Special Ditch

Deleted

Thaw Ponds

Access Control on R/W Line

Access Control

Access Control

NF46L1

NF46L1A

NF47

NF46

NF45

NF48

NF49

17

18

19

20

36" x 210' CMP

+81.54

+81.64

For depressed Median Nose detail see sheet 11

N 35° 54' 19" E ~664.45'

Install 1-24" ϕ160' Pipe Casing and 1-30" ϕ160' Pipe Casing for future Utilities

"FL" 32+28.90 End Pavement

STA "L" 215+00 36" x 150' CMP.

"L" 214+01.15 P.O.T. "FL" 31+37.61 P.O.T.

"L" 215+00 P.O.T. End Of Project

Match Line

Match Line

Fairhill Road

Sign

35' R.

35' R.

N 27° 30' 19" E

"FV" Line

FV 0+50 24" x 46'

T.B.M. # 8 ELEV. 521.76 Stake in 8" Birch 115' Rt. of 215+60.

Note: Construct Ditch Dike Right "L" 204+50, see sheet 13 for details.

Δ = 35°54'00"
D = 2°30' Rt.
T = 742.45'
L = 1,436.00'
R = 2,291.83'
S = 0.06'/Ft.
TL = 270'

Note: All utility Poles on plans are existing and will be removed or relocated by others.

Note: For "FV" Intersection Detail & Profile See Sheet 47 & 28.

"FL" 33+17.78 P.O.T.
"FV" 0+00.00 P.O.T.

Match existing road "FL" 33+60

Excavation	10,617	Cu. Yd.
Embankment	48,703	Cu. Yd.
Selected Material	72,715	Tons
Designated Waste	12,345	Cu. Yd.

Finished Grade Profile 22' Lt.

Existing Ground Line 18' Lt.

Finished Grade Profile 22' Rt.

Existing Ground Line 18' Rt.

+2.13%

+3.40%

+0.80%

+0.66%

10.66%

El. 483.56

El. 485.61

"L" 206+00 V.P.I. El. 494.21, 400' V.C.

END TRANSITION "L" 206+00 Finished Grade Profile 22' Rt.

"L" 215+00 V.P.I. El. 524.81, 1000' V.C.

Vertical Curve Information Shown On This Sheet At Sta. "L" 215+00 Applies To This Sheet Only.

Hand Clearing 7.87 Acres

Minimum 3.0' Selected Material

525 520 515 510 495 490 485 480

201 2 3 4 205 6 7 8 9 210 1 2 3 4 215

24

PLAN NOTE BOOK NO

R.O.W. - 2/13 Moved proposed R/W in 30' near parking lot.
RCE - 4-25-73 - Revised Slope limits

W.S.E. - 1/9/73 - Rev Median Nose @ "L" 215+00 and RW Frame Bldg. Dimensions

ALASKA	RF-ALF-062-1(25)	1975	26	12

Note: Thaw Ponds on this Sheet to be filled with excess Waste Material as Directed by Engineer.

Thaw Pond

"L" 215+00 P.O.T. End of Project

1/4 Cor.

"L" 16+01.80 P.T.

R/W

N 35°54'19" E

Access Control

"L" 220+41.25 P.O.T.

N ~~35°54'19"~~ E - 1250.00'

220

225

30'

90'

NF 50 | NF 50A | NF 51 | NF 52 | NF 53 | NF 54

~~L = 223+49.94~~ 6° ~~B~~ Radius "L" 223+33.29

Access Control

N ~~35°54'19"~~ E

N ~~27°39'19"~~ E "FV" Line

5

Match

21 FV 3+00 24" x 40' 28' Rt. ℄

Note: For "FV" Line Profile see Sheet 28

Note: All Utility Poles shown on Plans are Existing and will be Removed or Relocated by Others.

"FV" 4+56.45 P.C.

Δ = 8°15'00"
D = 7°00' Rt.
T = 59.03'
L = 117.86'
R = 818.51'
S = 0.06'/Ft.
TL = 125'

"FV" 5+74.31 P.T.

21 FV 5+85 24" x 48" 28' Rt. ℄

FV 6+00 Type III Timber Barricade

1/4 Line

1/16 Line

Note: See Sheet No. 14 for Transition Details.

Future Construction

End Transition "L" 227+50

Inside Shoulder

6' @ 3:R

6'

℄

Inside Shoulder

View at Circle A

Vertical Curve Information Shown On This Sheet Applies To This Sheet Only.

Excavation	13,913	Cu Yd.
Embankment	29,614	Cu Yd
Selected Material	55,086	Tons ①
Designated Waste	2071	Cu Yd.

① Includes 11,110 Tons for Subsidence Approach Quantities Included

535 | 530 | 525 | 520 | 515

"L" 215+00 El. 529.25 Tangent Grade

Finished Grade Profile ℄

+0.24%

+3.00%

"L" 220+50 El. 528.64 Tangent Grade

+0.19%

"L" 227+50 El. 527.94

Finished Grade Profile ℄

Existing Grade Profile

Land Clearing 5.88 Acres

Minimum 3.5' Selected Material

215 | 6 | 7 | 8 | 9 | 220 | 1 | 2 | 3 | 4 | 225 | 6 | 7 | 8 | 229

PLAN — SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | DATE | BY

PROFILE — SURVEYED | PLOTTED | DRAWN | CHECKED | GRADES CHECKED | DATE | BY | STRUCTURE NOTATIONS CHECKED

W.S.E. - 1/11/73 - Revised Median & Profile

ALASKA	AP-ALF-062-4(25)	1975	27

"TC" Line Third & Clay

"ST" LINE - STEESE HIGHWAY

"SL" LINE - SLATER DRIVE

"NW" LINE - GAFFNEY INTERSECTION

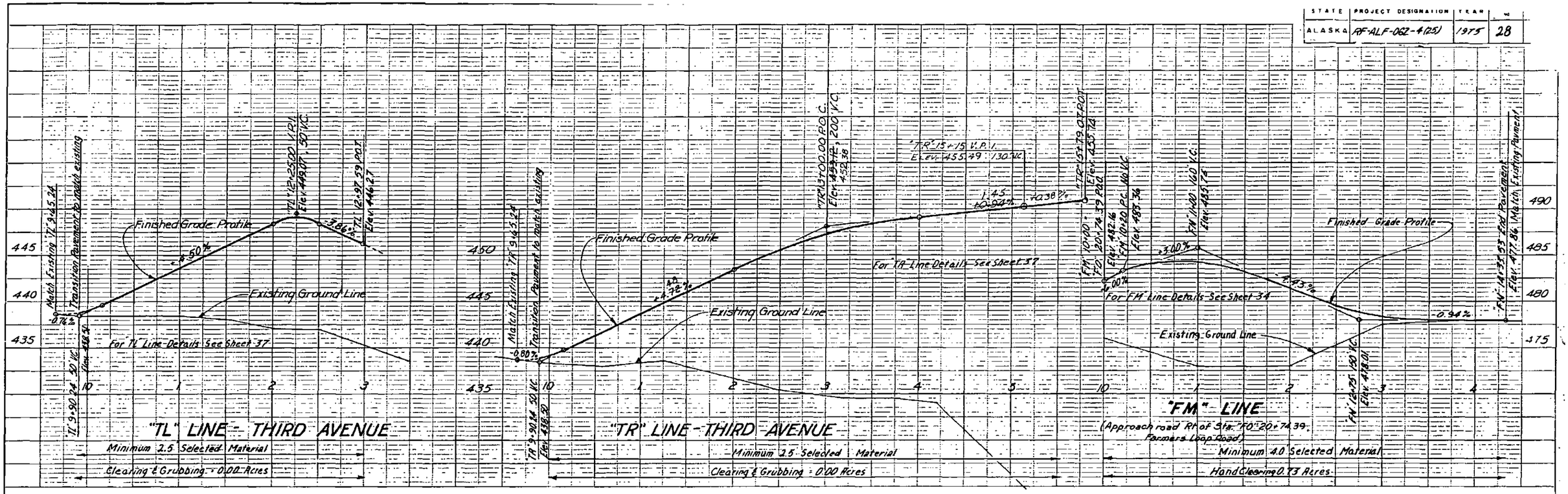
"NE" LINE - GAFFNEY INTERSECTION

"TN" LINE - TENTH AVENUE

"S" LINE - SEVENTH AVENUE

"TH" LINE - THIRD STREET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	AF-ALF-062-4(25)	1975	28


"TL" LINE - THIRD AVENUE
Minimum 2.5 Selected Material
Clearing & Grubbing = 0.00 Acres
Finished Grade Profile
Existing Ground Line
For "TL" Line Details See Sheet 37
Match Existing "TL" 9+45.24
Transition pavement to match existing
"TL" 1+29.90 24 50' VC
Elev. 438.30
"TL" 1+29.90 50' VC
"TL" 1+29.90 24 50' VC
Elev. 438.30
"TL" 1+29.90 24 50' VC
Elev. 438.30
"TL" 1+29.90 24 50' VC
Elev. 438.30

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	29	126

Note: Remove all existing Pavement, Curb and Gutter, and Sidewalks from "EO" 19+22 Lt. and Rt. to "SL" 10+00 Lt. and Rt.

Note: For Slater Drive Profile see sheet 27.

Chena River

"SL" 10+00.00 P.C. Match to Exist. Road

Slater Drive West

R/W

Obliterate Existing Road

Remove existing sidewalk Replace with Concrete Sidewalk "EO" 21+41.32 P.I.

"EO" 21+84.14 P.O.C. = "SL" 11+00.63 P.O.T.

"EO" 22+67.12 P.T.

Construct Curbcut "EO" 24+00 Width 34' See Std. I-20.01

Stone Retaining Wall

Apt.

Slough

"EO" 28+08.56 P.O.T. = "L" 10+00.00 P.O.T.

Front St.

4"x16" Steel Pipe EWO # 32

Match Existing

Second St.

"EO" 29+84.07 P.O.T. = "SS" 10+00.00 P.O.T.

Construct Curbcut "EO" 31+58, Width 20' See Std. I-20.01

Third St.

"EO" 33+13.77 P.O.T. Match Existing Street

"EO" 33+33.71 P.O.T. "TH" 15+97.79 P.O.T.

Fnd.

4" Weep Hole

Depressed Pavement

25

30

N 37°03'00" E ~ 1,066.59'

Std. "EO" 27+54 48" x 114' CMP

Abandon Existing Ditch

N 17°55'00" W 20'

Slater Drive

Construct Curb Cut "EO" 20+42 Width 34' See Std. I-20.01

"EO" 19+92.29 P.C.

"EO" 19+22.29± P.O.T. Match to Exist. Road

Note: Remove existing Stone Retaining Wall from within R/W & Refurbish ends to original condition.

Note: All Utility Poles shown on plans are existing and will be removed or relocated by others.

Stone Retaining Walls

Gazebo

Alley

Note: For Intersection Details See Sheets 39 & 40.

EAGLE AVENUE

Excavation	7308	Cu. Yd.
Embankment	5435	Cu. Yd.
Selected Material	9979	Tons
Designated Waste	445	Cu. Yd.

"EO" 19+92.29 E1. 437.15 Match Existing Pavement

"EO" 21+84.14 E1. 437.88

+0.38% -0.37% +0.30% -0.42%

"EO" 24+50.00 E1. 438.90 200' V.C.

"EO" 28+00 E1. 437.60 100' V.C.

"EO" 31+00 E1. 438.50 100' V.C.

"EO" 33+13.77 Elev. 437.69 Match existing street

Finished Grade Profile

Existing Ground Line

Clearing & Grubbing 0.77 Acres

Minimum 2.0' Selected Material

Minimum 1.5 Selected Material

440 435 430 425 420

20 1 2 3 4 5 6 7 8 9 30 1 2 3 4

10

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	NO. SHTS.
ALASKA	RF-ALF-062-4(25)	1975	30	12

NOTE: For Steese Highway Intersection Detail See Sheet 43. Profile Sheet 17.

NOTE: For College Road Intersection Detail See Sheet 42.

"ST" 11+40.94 P.O.T. Match Existing Pavement.

"CR" 214+92.81 P.T.

"CR" 212+84.04 P.T.

"CR" 212+75 P.O.C. Match Existing Grade & Alignment

S 59°42'59"E Existing College Road

R/W

"L" 210+73.58 P.C. = "CR" 210+73.58 P.C.

"CR"
Δ = 12°34'37"
D = 3°00' Rt.
T = 210.46'
L = 419.23'
R = 1909.86'
S = None

Steese Highway

Fox

Canopy

Service Station

Chase Drive

Steese Market

Shop

Apt

Garden

Pumping Station

Fairbanks Existing

N 62°36'53"E

S 47°08'22"E ~500.74'

215

220

"ST" 10+00.00 P.O.T. = "CR" 215+09.36 P.O.T.

"ST" 8+68.55 P.O.T. Match Existing Pavement

Note: All Utility Poles shown on plans are existing and will be removed or relocated by others.

"CR"
Δ = 41°38'32"
D = 14°00' Lt.
T = 155.63'
L = 297.44'
R = 409.26'
S = None

Section Line

"CR" 220+95.50 P.C.

"B" 122+97.18 P.O.C.

"CR" 223+92.94 P.T.

S 88°46'54"E ~ 137.36'

Hamilton Avenue Match Existing Roadway

"CR" 225+30.30 P.O.T.

1/4 Section Line

"CR" 219+93.55 P.O.T. = "B" 121+45.95 P.O.C.

5th. Street

"CR" 222+51.13 P.T.

Note: Install curb cuts at Stations "CR" 221+30 20' Lt, "CR" 223+00 20' Lt, "CR" 223+70 20' Rt, & "CR" 225+00 20' Rt.

COLLEGE ROAD

Excavation	17,452	Cu. Yd.
Embankment	12,756	Cu. Yd.
Selected Material	24,638 (1)	Tons
Designated Waste	457	Cu. Yd.

(1) Includes 250 Tons for Subsidence

445
440
435

El. 440.62
El. 441.30
El. 441.38
El. 441.34
El. 443.14
El. 441.36
El. 440.64
El. 440.01
El. 439.30
El. 437.14
El. 438.00

200' V.C.
208' V.C.
100' V.C.
100' V.C.

Finished Grade Profile

Existing Ground Line

+0.302%
0.32%
+0.90%
2.99%
2.98%
+0.20%

Edge of Travelled Way
Median
Edge of Travelled Way

"CR" 210+73.58 = "CR" 210+73.58
"CR" 212+75 Match Existing Grade & Alignment
"CR" 215+00
"CR" 217+00
"CR" 219+00
"CR" 219+59.55
"CR" 219+83.55
"CR" 220+03.55
"CR" 220+27.55
"CR" 221+00
"CR" 225+30.30

COLLEGE ROAD EXTENSION

Clearing & Grubbing 1.15 Acre

Hand Clearing 0.00 Acre

Minimum 2.0 Selected Material

Minimum 4.0 Selected Material

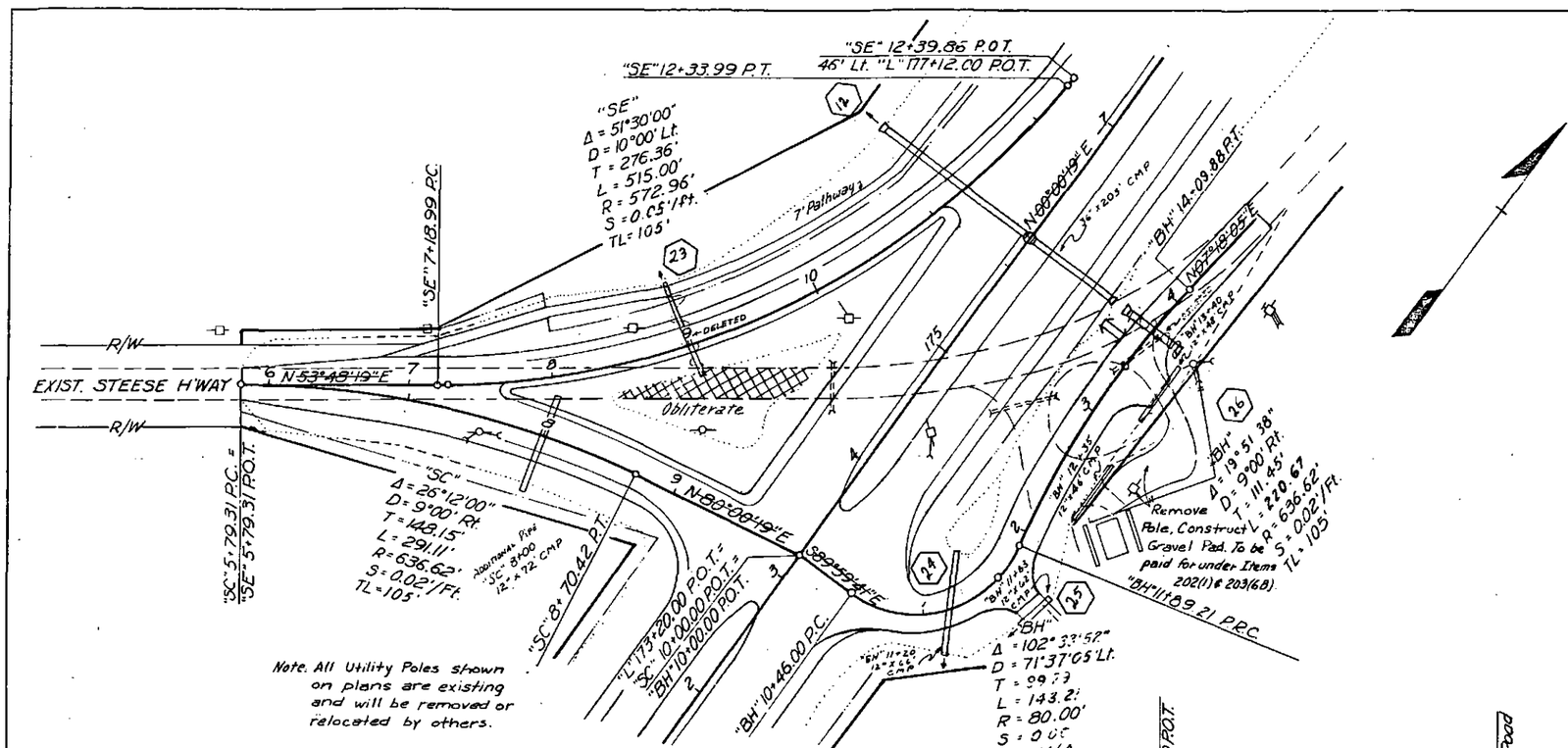
1 2 3 4 215 6 7 8 9 220 1 2 3 4 225

PLAN NOTE BOOK No.

PROFILE NOTE BOOK No.

126

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(23)	1975	31	79



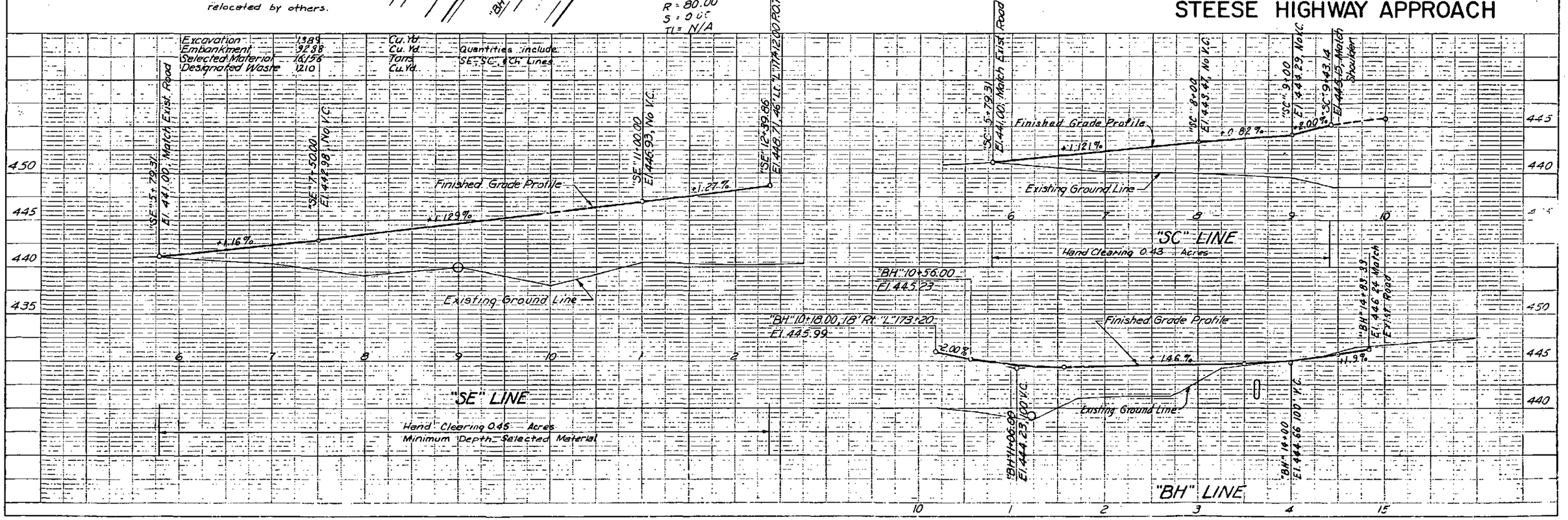
Notes:

1. For Birch Hill ("BH") detail see Sheet 46
2. For Steese Highway ("SC" & "SE") detail see Sheet 45

BIRCH HILL INTERSECTION & STEESE HIGHWAY APPROACH

Excavation	1389	Cu. Yd.
Embankment	9288	Cu. Yd.
Selected Material	16156	Tons
Designated Waste	1210	Cu. Yd.

Quantities include SE, SC, & CH Lines



79.4

'SE. - 2/6/73 - Revised Profile Grade
W.S.E. - 3/24/ - Revised Slope Limits & R/W

ALASKA	RF-ALF-062-4(25)	1975	32	12

"L" 184+00
36" x 180' CMP

"L" 182+90.18 P.O.T.

13

185

"FS" 11+60.96 P.I.

148.86'

N 66° 00' 19" E

NF39

NF38

"FS" Line
Δ = 29°19'29"
D = 12°00' Lt.
T = 124.93'
L = 244.37'
R = 477.47'
S = N.C.
TL = 0

R/W

COMMERCIAL DRIVE

R/W

"FS" 17+88.36 P.C.

"FS" 20+32.73 P.T.

R/W

N 64° 34' 05" E

CITY LIGHTS BOULEVARD

R/W

END CONSTRUCTION
"FS" 21+00

10

N 64° 63' 46" W

"FS" 9+50
Match Existing Pavement

"FS" 9+96.77 P.C.

NF37

"FS" Line
Δ = 37° 57' 14"
D = 12° 00' Rt.
T = 164.19'
L = 316.28'
R = 477.47'
S = 0.06'/Ft.
TL = 120'

"FS" 13+13.05 P.T.

15

"FS" 14+50
24" x 90' CMP

N 33° 53' 34" E

28

"FS" 19+13.29 P.I.

Section Line

20'

Note: All Utility Poles shown on Plans are Existing and will be Removed or Relocated by Others

Note: See Sheet No. 5 for Ditch Lining Details

FAIRHILL SUBDIVISION ACCESS ROAD

Excavation	6,907	Cu. Yd
Embankment	8288	Cu. Yd
Selected Material	11,316 ①	Tons
Designated Waste	2,630	Cu. Yd

① Includes 3070 Tons for Subsidence

PROFILE

520
510
500
490
480
470
460
450

"FS" 9+50
Match Existing Road

"FS" 11+50
Elev. 453.65
400' V.C.

-1.50%

+7.00%

Finished Grade Profile

Existing Ground Line

"FS" 19+00
El. 506.15
200' V.C.

+4.90%

El. 515.95

END CONSTRUCTION

Clearing & Grubbing 0.98 Acre

Hand Clearing 0.00 Acre

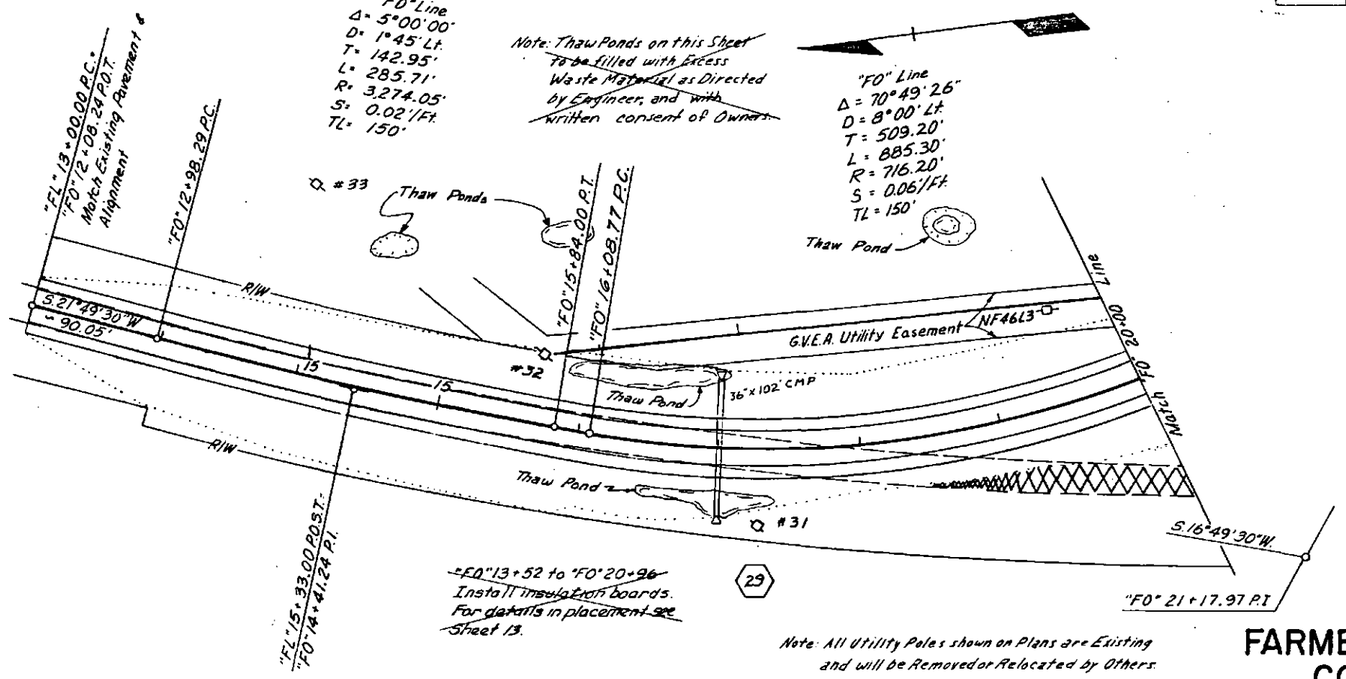
2.0' Selected Material

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

4-5-E - 3/30/73 - Revised Slope Limits

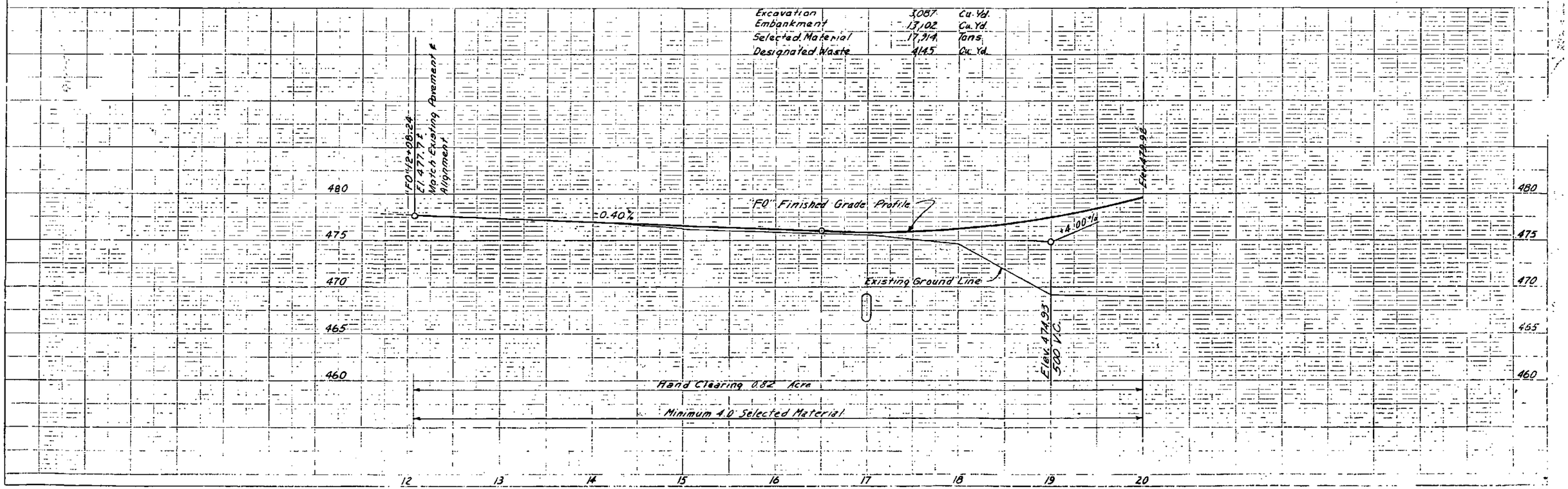
31

STATE	PROJECT DESIGNATION	YEAR	SHEET
ALASKA	RF-ALF-062-4(25)	1975	33



FARMERS LOOP RD. CONNECTOR

Excavation	3087	Cu. Yd.
Embankment	13,102	Cu. Yd.
Selected Material	17,914	Tons
Designated Waste	4145	Cu. Yd.



PROFILE

W.S.E. - 2/17/73 - Revised Alignment & Profile Grade
W.S.E. - 3/23/73 - Revised Slope Limits

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	34	126

FARMERS LOOP ROAD CONNECTOR

"FO" Line
Δ = 70°49'26"
D = 8°00' Lt.
T = 509.20'
L = 885.30'
R = 716.20
S = 0.06'/ft.
TL = 150'

Note: All Thaw Ponds on this Sheet to filled with Excess Waste as Directed by Engineer.

Note: For "FI", "FP" Profile See Sheet 28

"FO" 20+74.39 P.O.C. = "FM" 10+00.00 P.O.T

Match "FO" 20+00 Line

"FM" 10+20 P.C.

"FM" 11+70.00 P.T.

"FM" 11+50 18" x 106'

"FM" 11+92.21 P.T.

"FO" 24+94.07 P.T.

"FO" 25+00 58' Lt. & 36" x 54' CMP

"FO" 28+16.48 P.O.T.
"FL" 28+16.48 P.O.T.

"FI" 7+38.96 P.C.

Approach Deleted

"FI" 9+17.50 P.T.

Thaw Ponds

Deleted "FI" 9+17.50
"FL" 28+35.14 P.O.T.

Drainage

"L" 214+01.15 P.O.T. =
"FL" 31+37.81 P.O.T.

"L" 215+00 36" x 150'

N 35° 54' 19" E

NF 50A

N 27° 39' 11" E

Note: For "FV" Line Profile & Detail See Sheet 28 & 47

R/W
Fairhill Road
"FL" 33+60.00 P.O.T
Match Existing Road
R/W

"FV" 0+00.00 P.O.T.
"FL" 33+17.78 P.O.T. =

"FL" 32+28.90 P.O.T.
End of Pavement

NOTE: For Farmers Loop Intersection detail see sheet 47

Farmers Loop Road

50' R

25

30

32

19

20

35' R

S 53° 59' 56" E

Sign

18

31

"FI" 9+87.5 12" x 76' CMP

"FP" 11+22.21 P.T.

S 89° 28' 19" E

Deleted

"FO" 25+00 102' Rt. & 12" x 44' CMP

"FI" & "FP" Curve Data
Δ = 45°30'00"
R = 50.00'
T = 20.97'
L = 39.71'

"FP" 10+82.50 P.C.
"FI" 10+00.00 P.C.
"FI" 10+39.71 P.T.

"FI" 10+83.21 P.O.T.

N 81° 32' 41" W

"FP" 12+76.71 P.O.T.

Parking Area

Note: All Poles Shown Are Existing.

"FM" Line
Δ = 67° 41' 22.55"
D = 38° 11' 49.87"
T = 100.59'
L = 177.21'
R = 150.00'
S = N.C.

NOTE: For "FM" Line profile see sheet 28

End Stabilizing Berm at "FL" 29+00.

¼ Corner

G.V.E.A Utility Easement

Deleted

NF 46 LL

H

NOTE: See typical section for shoulder transition.

Note
"FM" 12+50
Construct Approach
Lt.

"FM" 14+00.45 P.O.T. =
"FA" 13+16.92 P.T.

"FA" 13+50.00 P.O.T.
End Pavement

Farmers Loop Road

Excavation	1,874	Cu. Yd.
Embankment	32,778	Cu. Yd.
Selected Material	60,172 ①	Tons
Designated Waste	9,672	Cu. Yd.

① Includes 8070 Tons for Subsidence

"FO" Finished Grade Profile

Existing Ground Line

Elev 492.93

Elev 473.92

+4.00%

+4.00%

+2.00%

-2.00%

+6.00%

"FO" 28+16.48 P.O.T. =
"FL" 28+16.48 P.O.T.

"FL" 29+00
El. 514.93
200' V.C.

"L" 214+01.15 = El. 518.60

"L" 215+37.81 = El. 518.60

"FL" 32+36.81
El. 517.71
86' V.C.

"FL" 32+28.90
End Pavement

+17.78

+60.00
Match Existing Road

Hand Clearing 3.30 Acres

Minimum 5.0' Selected Material

490
485
480

530
525
520
515
510
505
500
495
490

21 22 23 24 25 26 27 28 29 30 31 32 33 34

PLAN
CURVES
CHECKED
NOTE BOOK
No.

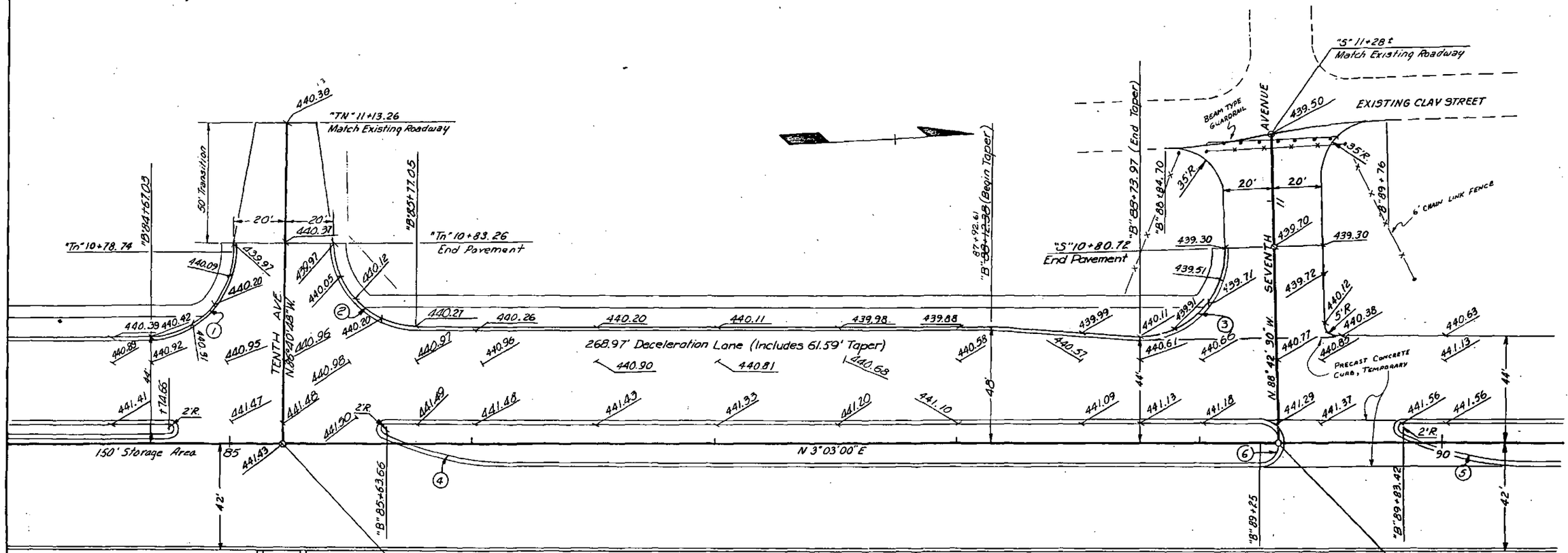
PROFILE
CURVES
CHECKED
NOTE BOOK
No.

STATE | PROJECT NO | YEAR
ALASKA | RF-ALF-062-4-(25) | 1975

GAFFNEY ROAD

"B" 67+84.92 P.C.
"B" 67+81.83 P.O.T.
"WR" 67+70.37 P.I.
84.10
N 29°13'31" E.
N 31° 28' 30" E
2' R
6'
36'
29° 25' 30"
N 29°29'26" E.
N 29°26'40" E. Bk.
N 29°29'11" E. Ahd.
Center of 6' Rt "B" 67+09.51 P.O.T.
Flare - See Detail Lower left
"B" 67+09.51 P.O.T.
"L" 179+94.41 P.O.T.
"B" 66+63.56 P.O.T.
"L" 166+63.51 P.O.T.
"NW" 67+75.88 P.T.
"WR" 68+56.25 "NW" 68+69.29 P.T. (179' Lt., B 68+51.62 P.O.C.)
"WR" 68+94.33 Radial to P.O.T. "NW" 69+20.41 P.O.T. (42' Lt. B 69+17.87 P.O.C.) 68+88.08
2' RADIUS POINT 14' Rt. "WR" 68+94.33
"WR" 70+57.99 P.O.T. "NW" 71+09.49 P.O.C. (134' Lt., B 71+09.49 P.O.C. 70+55.53
44½° 28' 34" RT. P.O.C.
Match "B" 72+00 Line
441.47
441.97
442.40
442.60
442.12
442.27
442.42
442.75
442.57
442.72
442.81
443.35
443.05
443.52
443.50
443.44
443.34
443.35
443.27
443.37
443.53
443.68
442.67
442.53
442.49
442.31
442.57
442.53
442.49
441.93
442.55
442.49
441.93
441.94
441.95
442.44
442.40
442.27
442.37
442.7
442.4
442.27
442.10
442.02
442.58
442.38
442.10
442.16
442.18
442.01
441.84
441.78
441.68
441.75
442.06
441.88
441.92
441.94
441.95
441.65
441.12
442.27
442.27
442.40
442.60
442.75
442.42
442.57
442.72
442.81
443.05
443.35

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	36	126



Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	90°16'12"	35'	55.14'	35.17'	3,965,136.35	234,877.215
2	90°16'12"	35'	55.14'	35.17'	3965,246.430	234,879.015
3	95°28'28"	35'	58.32'	38.51'	3965,542.72	234,898.87
4	28°39'06"	100'	50.01'	25.54'	3,965,311.77	234,873.54
5	28°39'06"	100'	50.01'	25.54'	3965,697.64	234,894.10
6		8'			3,965,583.47	234,980.47

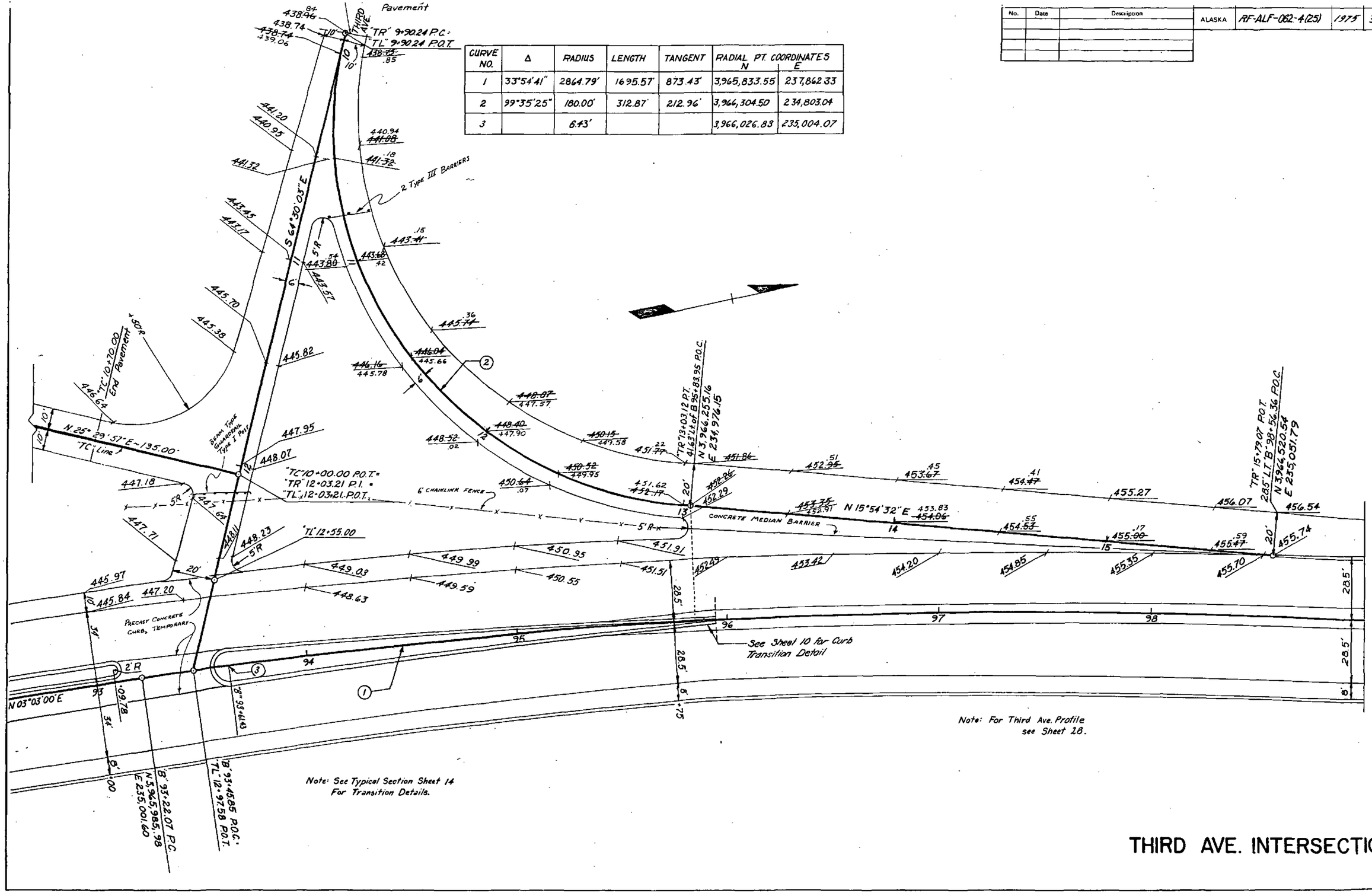
Note: For Seventh & Tenth Avenue profiles see Sheet 27.

SEVENTH AVE. & TENTH AVE. INTERSECTIONS

R.12-11/20/72 Revised 54' to 42' @ wing 50'R now 35'R
R.2c-11-30-73 Moved median nose back to "B" 85+03

No.	Date	Description	ALASKA	RF-ALF-062-4(25)	1975	37	12

CURVE NO.	Δ	RADIUS	LENGTH	TANGENT	RADIAL PT. COORDINATES N	E
1	33°54'41"	2864.79'	1695.57'	873.43'	3,965,833.55	237,862.33
2	99°35'25"	180.00'	312.87'	212.96'	3,966,304.50	234,803.04
3		6.43'			3,966,026.83	235,004.07



Note: For Third Ave. Profile see Sheet 28.

Note: See Typical Section Sheet 14 For Transition Details.

THIRD AVE. INTERSECTION

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	AF-ALF-062-4(25)	1975	38	126

Existing Third Avenue

"TR" 9+90.24 P.C. =
"TL" 9+90.24 P.O.T.

Note: For intersection detail & Profile see Sheet 37, & 28

Second Avenue

℄

Type III Barricade

Ditch to Drain

EXISTING CLAY STREET

B 98+77
276' Lt.

Boundary U.S.S. No. 3368

"TR" 13+03.12 P.T.

Gravel Surface Sloped 3% to Drain to River

End Access Control

Natural Ground
El. 434.0

Parking Lot
El. 435.3

Note: Guard Rail post spacing shall be 12'-6" for this parking lot only.

Boundary U.S.S. No. 3368

14

96

10

15

97

Bridge Abutment

Bridge Sidewalk

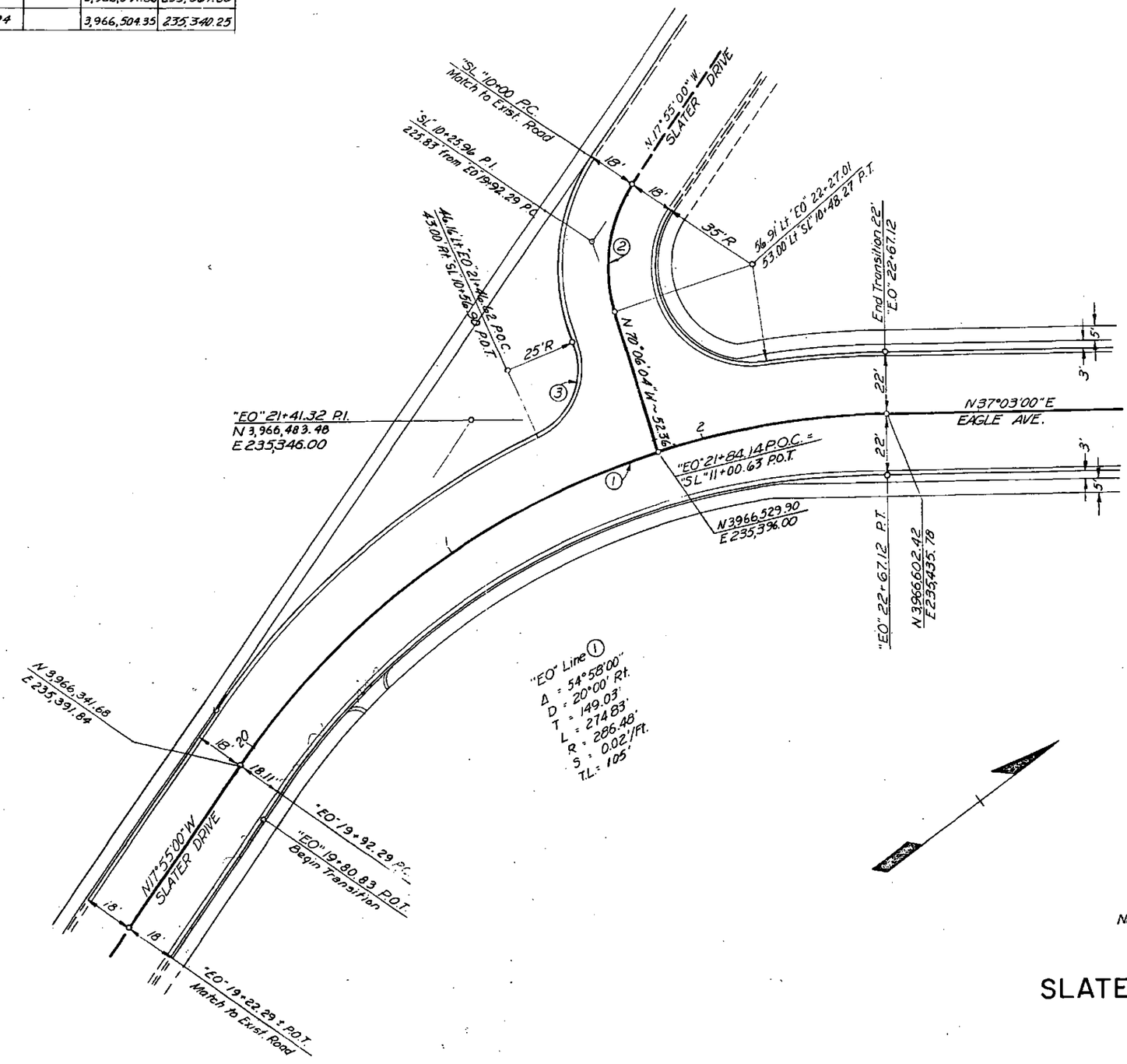
Note: 7' Pathway goes under Bridge

CHENA RIVER

THIRD AVENUE PARKING LOT DETAIL.

Curve Number	Δ	Radius	Length	Tangent	Radial P.T. Coordinates N	E
1					3,966,429.81	235,664.42
2	52°11'04"	53.00'			3,966,597.56	235,364.80
3	82°22'23"	25.00'	35.94		3,966,504.35	235,340.25

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	39	12



OFFSETS TO FACE OF CURB

"EO" STA.	LT.	RT.
19+80.83 P.O.T.		18.00'
19+92.29 P.C.		18.11'
19+99.53 P.O.C.	18.09'	
20+00.00 P.O.C.	18.11'	18.31'
20+25.00 P.O.C.	18.76'	18.93'
20+50.00 P.O.C.	19.36'	19.51'
20+75.00 P.O.C.	19.91'	20.03'
21+00.00 P.O.C.	20.40'	20.50'
21+25.00 P.O.C.	20.83'	20.90'
21+46.62 P.O.C.	21.16'	
21+50.00 P.O.C.	21.20'	21.25'
21+75.00 P.O.C.	21.50'	21.53'
21+84.14 P.O.C.	℄ "SL"	
22+00.00 P.O.C.	21.74'	21.75'
22+25.00 P.O.C.	21.90'	21.90'
22+28.23 P.O.C.	21.91'	
22+50.00 P.O.C.	21.98'	21.98'
22+67.12 P.T.	22.00'	22.00'

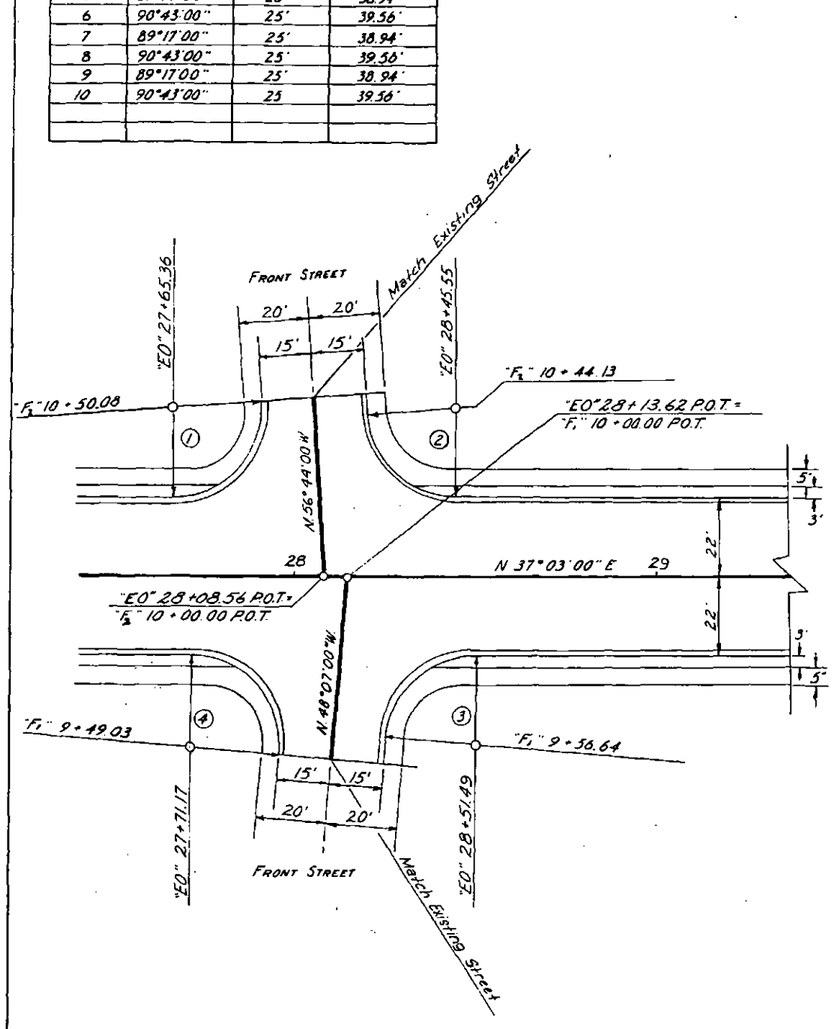
Note: For Eagle Avenue profile see Sheet 29
For Slater Drive profile see Sheet 27.

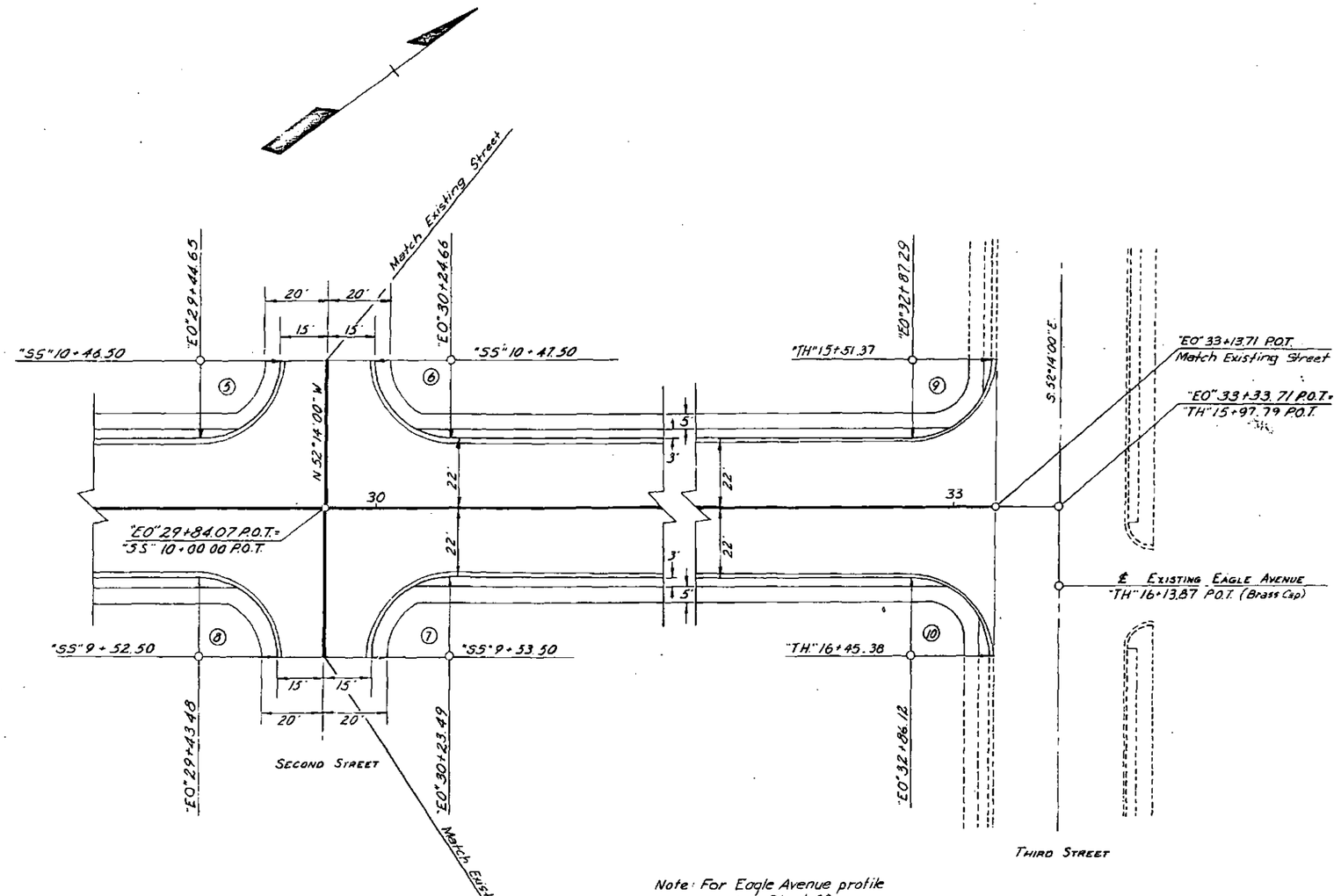
SLATER DRIVE & EAGLE AVENUE INTERSECTION

R.Clark - 1-08-72 Drew revised sheet.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-1(25)	1975	40	124

CURVE No	Δ	RADIUS	LENGTH
1	93°47'00"	25'	40.90'
2	86°13'00"	25'	37.60'
3	85°10'00"	25'	37.14'
4	94°50'00"	25'	41.36'
5	89°17'00"	25'	38.94'
6	90°43'00"	25'	39.56'
7	89°17'00"	25'	38.94'
8	90°43'00"	25'	39.56'
9	89°17'00"	25'	38.94'
10	90°43'00"	25	39.56'

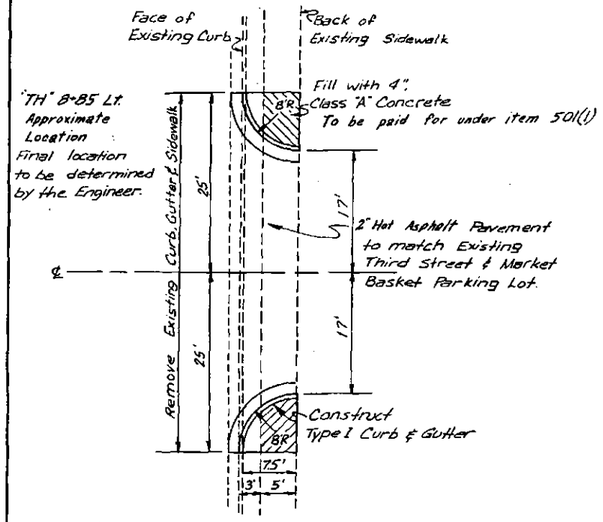




Note: For Eagle Avenue profile see Sheet 29.

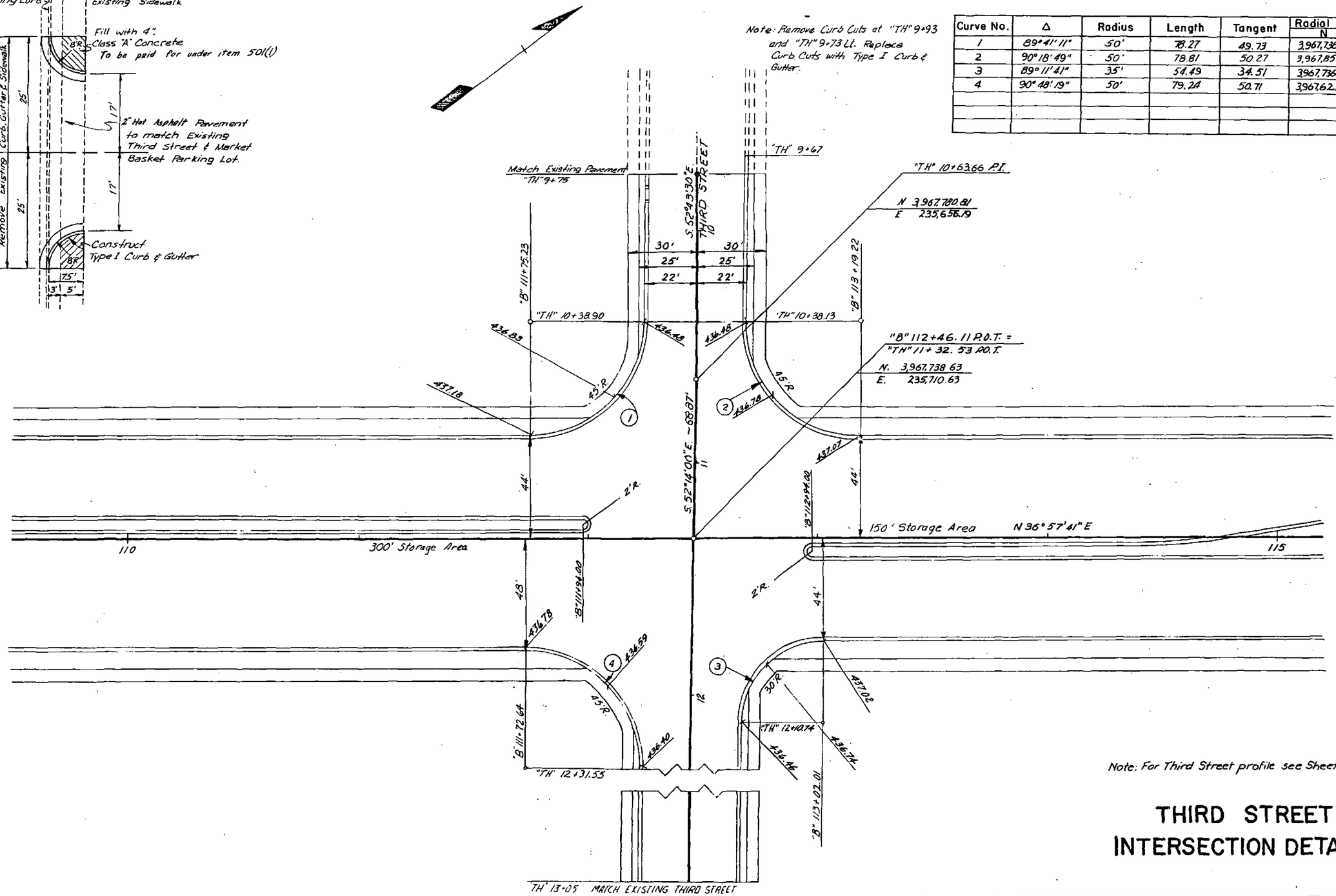
EAGLE AVENUE
INTERSECTION DETAILS
FRONT ST., SECOND ST., & THIRD ST.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	NO. SHTS.
ALASKA	RF-ALF-082-4(25)	1975	41	126



Note: Remove Curb Cuts at "TH" 9+93 and "TH" 9+73 Lt. Replace Curb Cuts with Type I Curb & Gutter.

Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	89°41'11"	50'	78.27	49.73	3,967,738.51	235,592.89
2	90°18'49"	50'	78.81	50.27	3,967,853.57	235,679.48
3	89°11'41"	35'	54.49	34.51	3967,736.19	235,808.67
4	90°48'19"	50'	79.24	50.71	3967621.07	235,744.81

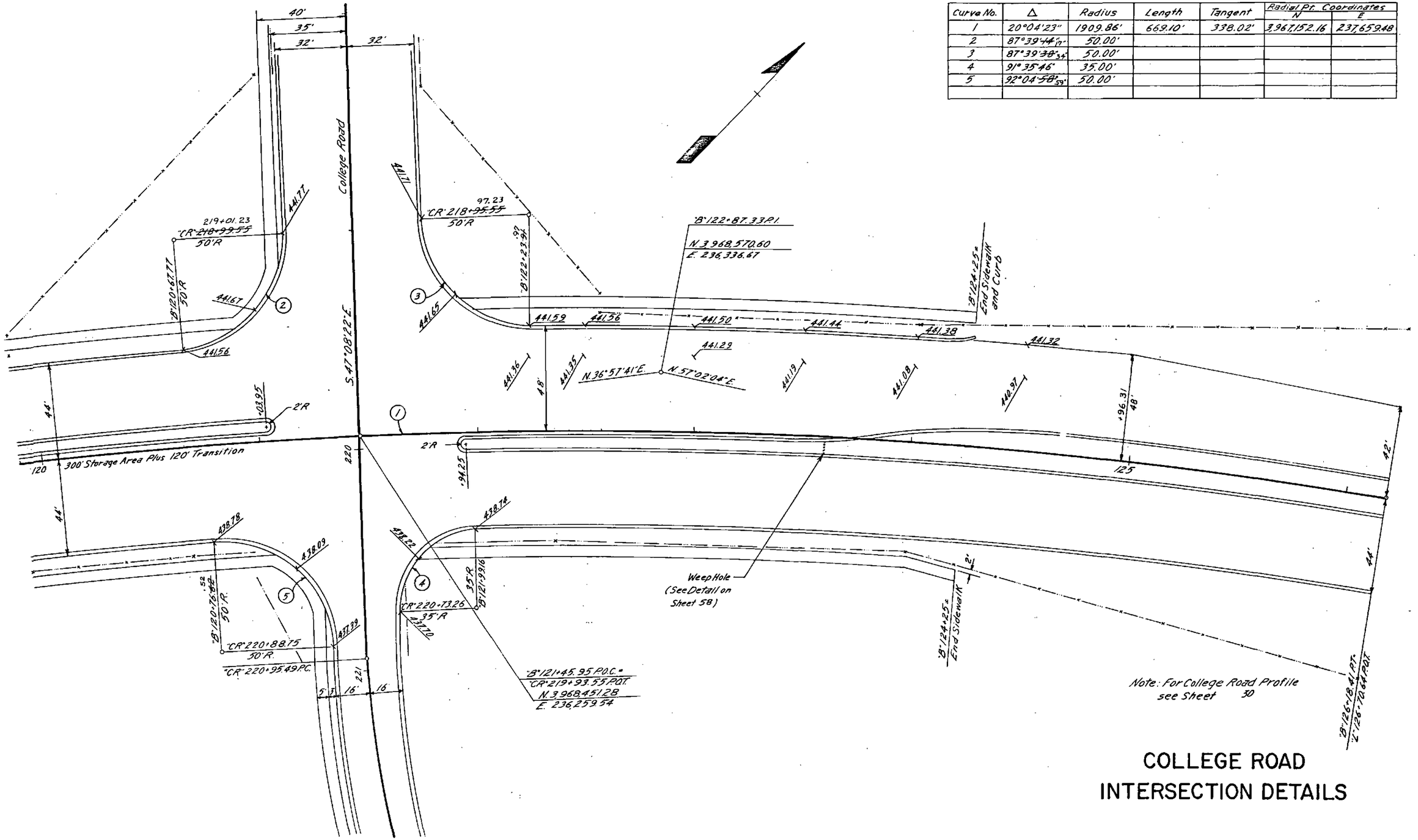


Note: For Third Street profile see Sheet 27.

THIRD STREET INTERSECTION DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	42	126

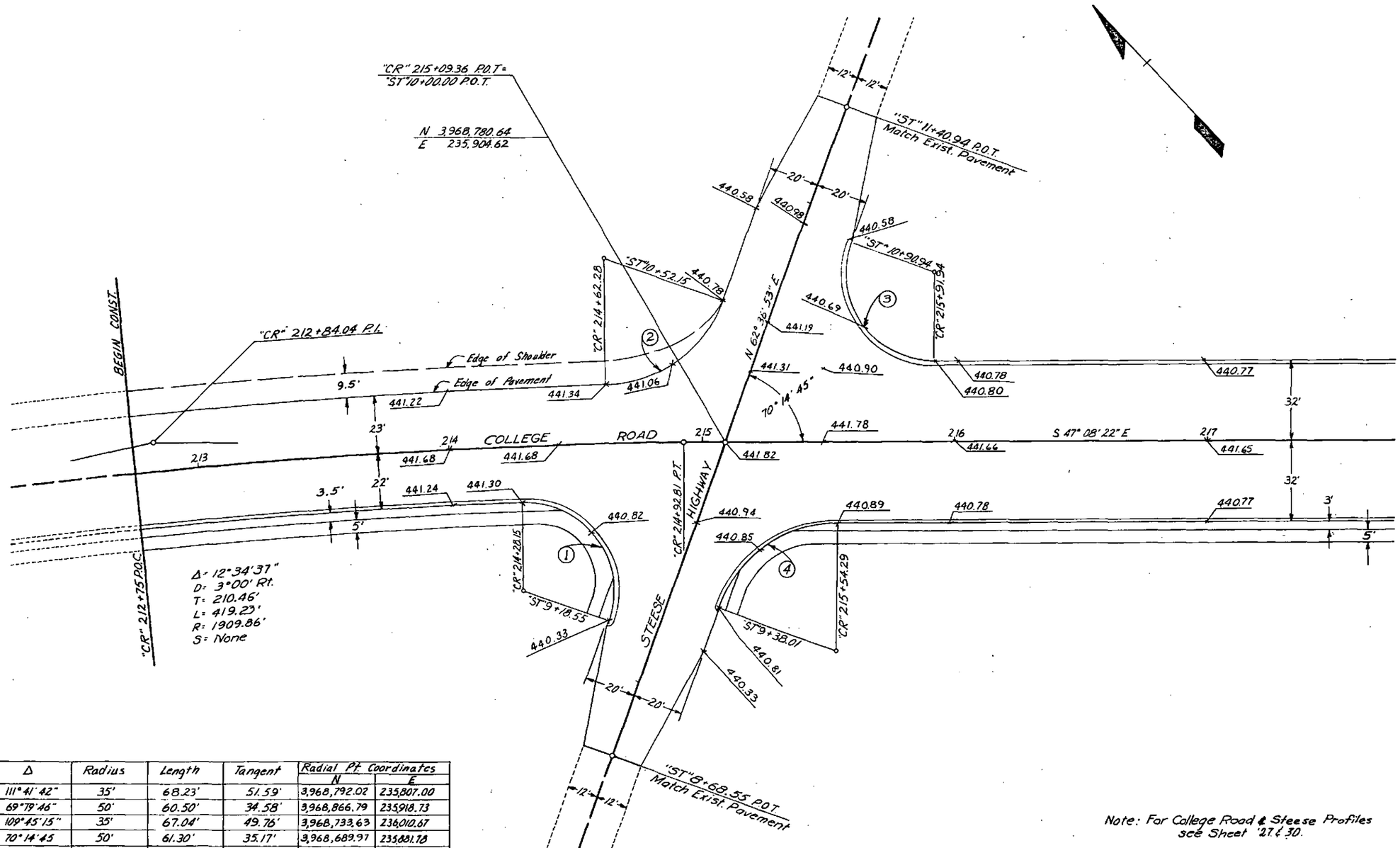
Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	20°04'23"	1909.86'	669.10'	338.02'	3,967,152.16	237,659.48
2	87°39'44"	50.00'				
3	87°39'38"	50.00'				
4	91°35'46"	35.00'				
5	92°04'58"	50.00'				



COLLEGE ROAD
INTERSECTION DETAILS

D.R.O. - 1/23/75 - Revised shoulder, curb & elevations

STATE	PROJECT NO.	YEAR
ALASKA	RF-ALF-062-4(25)	1975



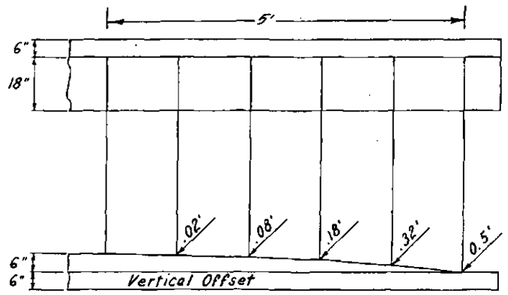
Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	111° 41' 42"	35'	68.23'	51.59'	3,968,792.02	235,807.00
2	69° 19' 46"	50'	60.50'	34.58'	3,968,866.79	235,918.73
3	109° 45' 15"	35'	67.04'	49.76'	3,968,733.63	236,010.67
4	70° 14' 45	50'	61.30'	35.17'	3,968,689.97	235,881.78

Note: For College Road & Steese Profiles see Sheet 27 of 30.

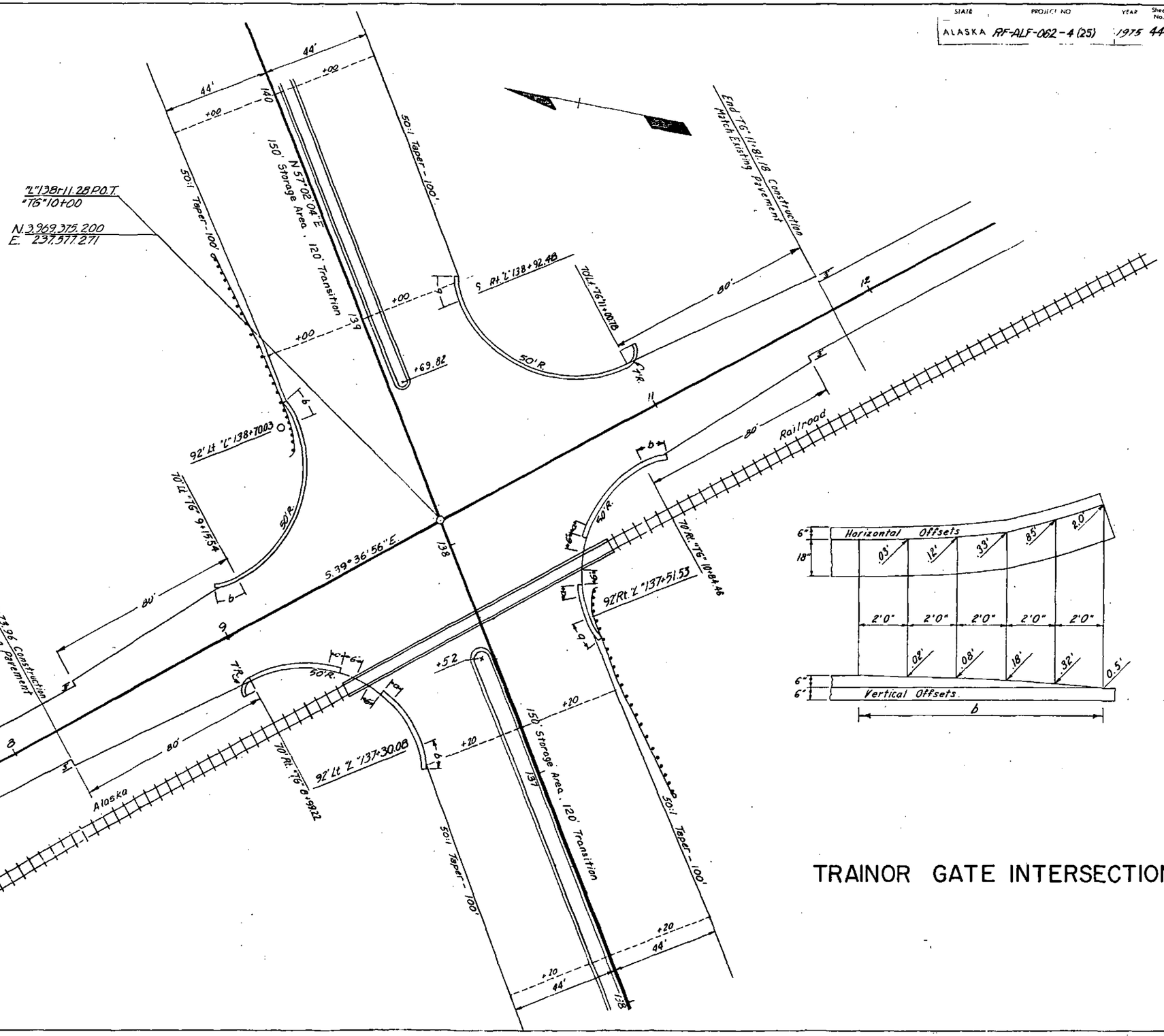
COLLEGE ROAD - STEESE HIGHWAY INTERSECTION DETAILS

STATE	PROJECT NO	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	44	126

W.S.E. ~ 11-13-72 ~ Removed Superelevation & Transition Note
W.S.E. ~ [illegible]-73 ~ Added 8' Shoulders
W.S.E. ~ 2-73 ~ Changed 8' Shoulders to 2' Shoulders &
Revised "TG" Stationing

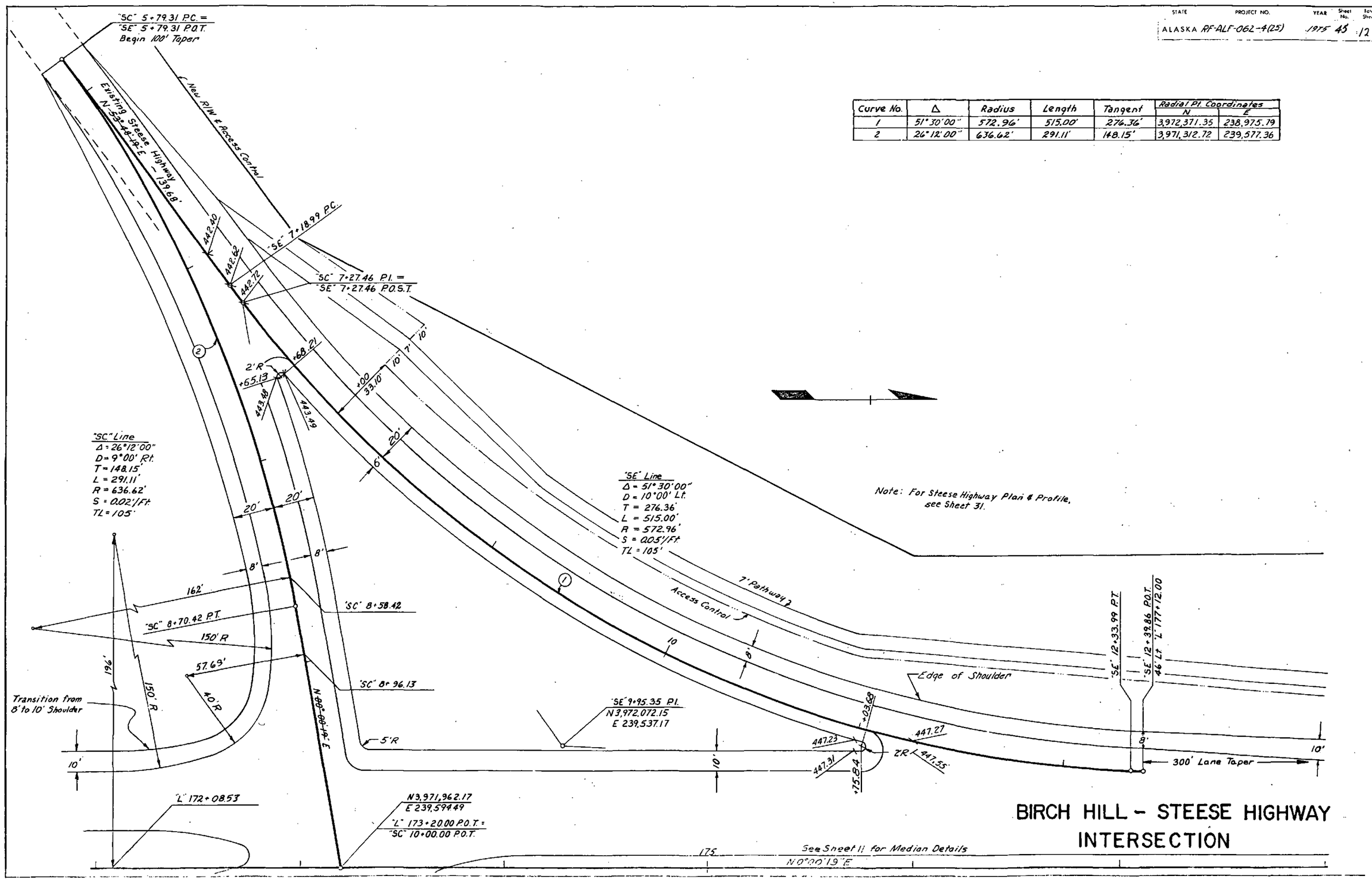


Curb and Gutter Transition, a
Offsets spaced at
Equal Intervals



TRAINOR GATE INTERSECTION

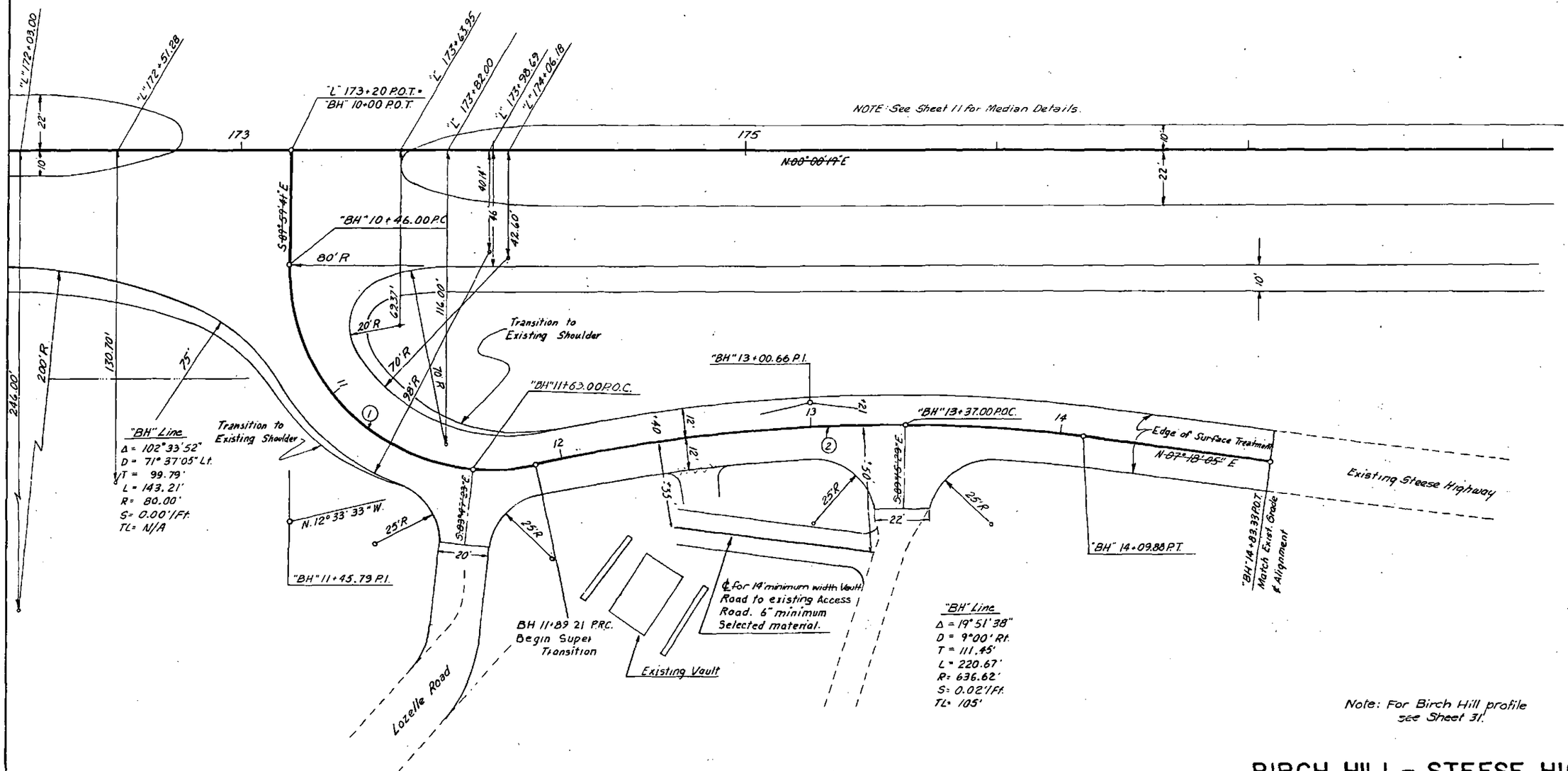
Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	51°30'00"	572.96'	515.00'	276.36'	3,972,371.35	238,975.79
2	26°12'00"	636.62'	291.11'	148.15'	3,971,312.72	239,577.36



BIRCH HILL – STEESE HIGHWAY INTERSECTION

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	46	126

Curve No.	Δ	Radius	Length	Tangent	Radial Pt. Coordinates N	Radial Pt. Coordinates E
1	19° 51' 38"	636.62'	220.67'	111.45'	3,972,042.17	239,640.50
2	102° 33' 52"	80.00'	143.21'	99.79'	3,972,197.99	240,339.97



Note: For Birch Hill profile see Sheet 31.

BIRCH HILL- STEESE HIGHWAY INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	75	47A	1[illegible]

UTILITY QUANTITY SUMMARY

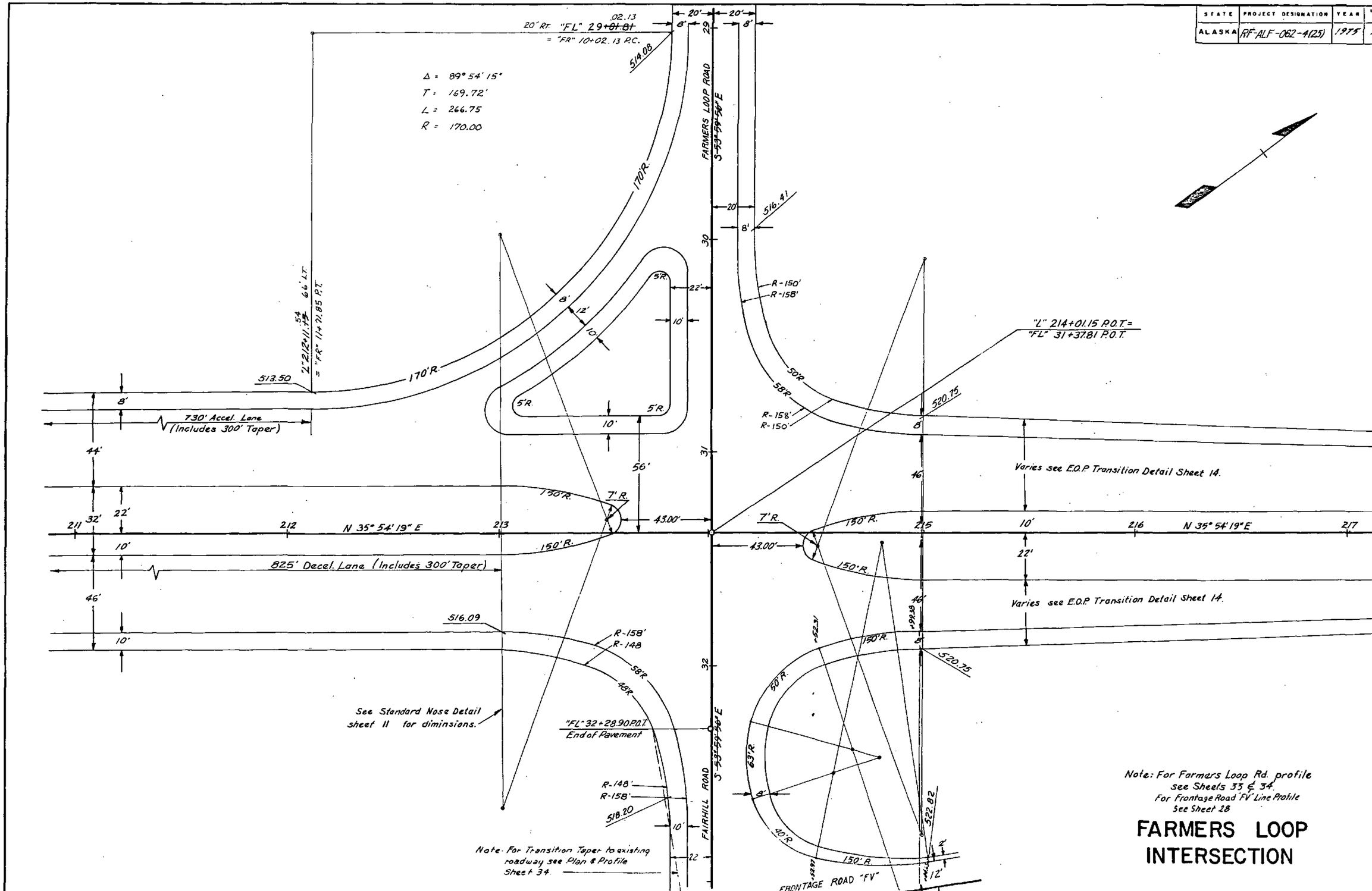
Sheet	Casing for Future Utilities: Pipe Conduit 12"	18"	24"	30"	Excavation Struct.	Excavation Bed.	Sanitary Sewer: Adjust M.H.	Install M.H.	8" Wood Stave	Excavation Struct.	Excavation Bed.	Water Lines: Service Conn.	Steel Water Conduit 3"	6"	8"	10"	12"	Casing Pipe 12"	18"	24"	30"	Valve Manhole	Valve Box	Gate Valves 6"	8"	10"	12"	Relocate Fire Hyd.	Excavation Struct.	Excavation Bed.
50			~~156'~~ 141		~~46~~ 0	~~6~~ 0																								
51							2			4	0		164	~~55'~~ 52	131	420			294										~~55~~	
52												2	~~125'~~	829	~~160'~~	~~450'~~			~~360'~~				1			1			~~702~~	~~53~~
53		156'	~~138'~~		~~212~~ 0	~~26~~ 0	1			468	468	~~5~~ 4		~~890~~	~~670~~ 639	~~820~~ 831	~~30'~~ 14		~~640'~~ 649			1	~~8~~ 9	4	~~3~~ 1	4		2	~~1672~~	~~71~~
54	~~160'~~ 141		~~266'~~ 244	266'	~~849~~ 0	~~106~~ 0		3	~~220'~~ 205.5	~~429~~	~~68~~	~~2~~ 3		514	~~440'~~		~~200'~~ 210		~~322'~~ 315	~~110'~~ 111			3		2		1		~~411~~	~~64~~
55			~~110'~~ 56		~~95~~ 0	~~16~~ 0									294	1636														
56							3			6		~~3~~		14	~~300'~~	~~810'~~			~~326'~~ 346				~~5~~ 6	1	~~5~~ 4	1		3	~~991~~	~~47~~
Totals	① ~~160'~~ 141	① 156'	② ~~670'~~ 557	② ~~266'~~ 244	~~1202~~	~~154~~	6	3	~~220'~~ 205.5	~~439~~	~~68~~ 468	~~12~~ 9	~~125'~~ 164	~~945~~ 896	~~1570'~~ 1635	~~2080~~ 1909	~~230~~ 224		~~1648'~~ 1657	~~110'~~ 111		1	~~17~~ 19	~~4~~ 5	10	~~5~~ 6	1	5	~~3831~~	~~235~~

① To be paid for under Item 603(22).
② To be paid for under Item 603(32).

AS BUILT PIPING LENGTHS INCLUDE ALL VALVES, TEES AND RELATED FITTINGS

UTILITY SUMMARY

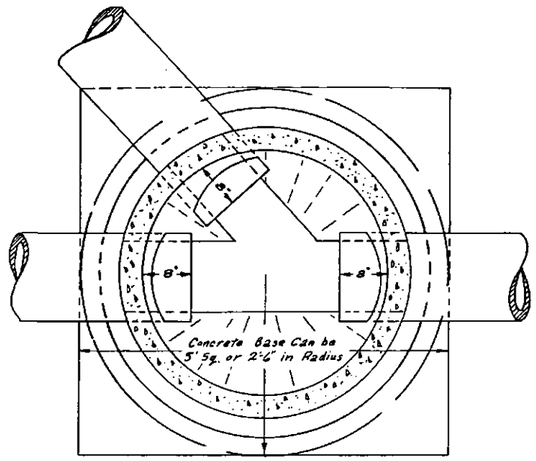
STATE	PROJECT DESIGNATION	YEAR	SHEET
ALASKA	RF-ALF-062-4(25)	1975	47



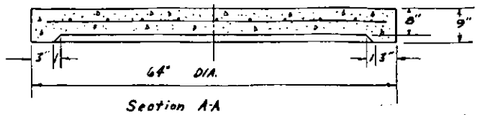
Note: For Farmers Loop Rd. profile
see Sheets 33 & 34.
For Frontage Road "FV" Line Profile
See Sheet 28

FARMERS LOOP INTERSECTION

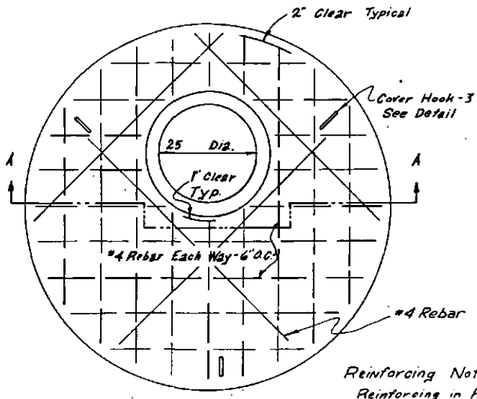
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	48	126



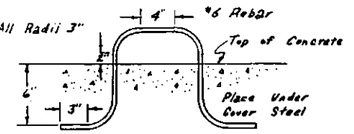
Typical "Y" Manhole Plan



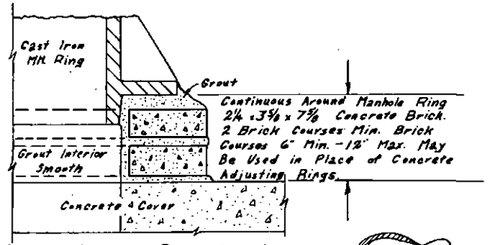
Section A-A



Flat Slab Cover Plan

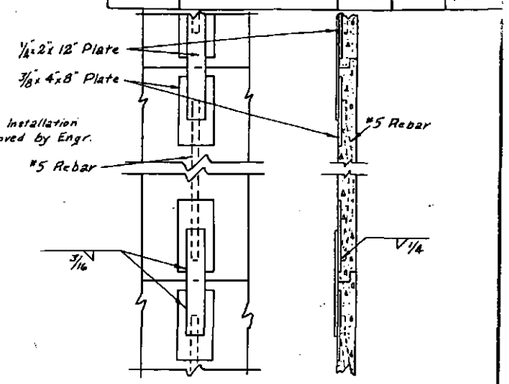


Manhole Cover Hook Detail



Grout & Concrete Brick Detail

Note: Inserts & Installation to be Approved by Engr.



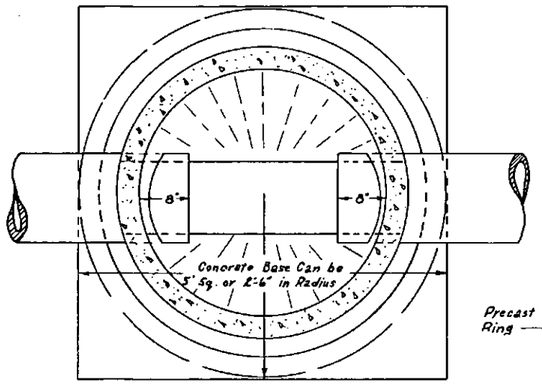
Manhole Ring Connector Detail

Note: Each Manhole Ring Shall be Connected by 3 Equally Spaced Ring Connectors

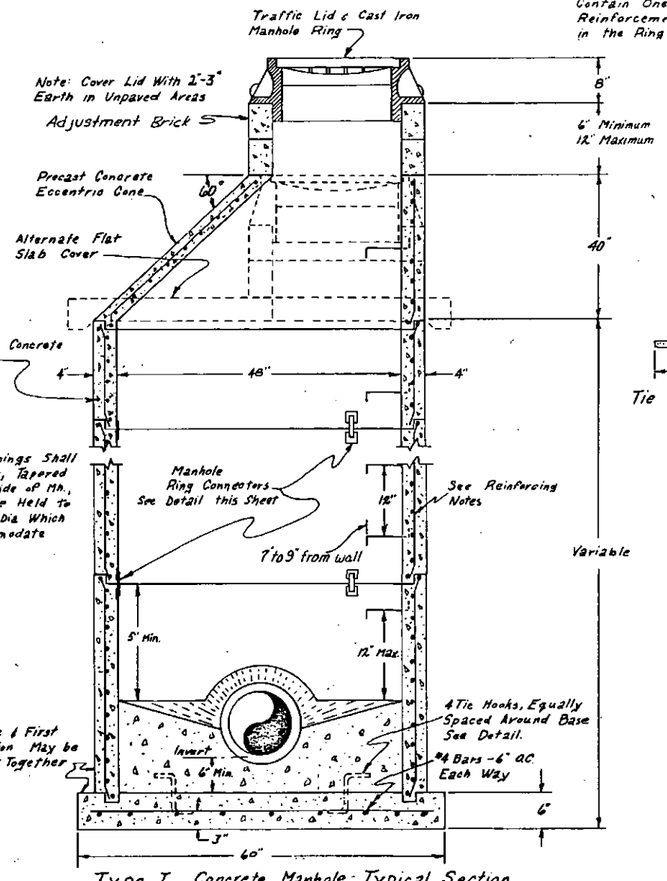
Reinforcing Notes:

Reinforcing in Precast Rings and Cones to be a Single Line of Steel Fabric Having a Minimum Sectional Area of 0.17 Sq. in. Per Foot of Height.

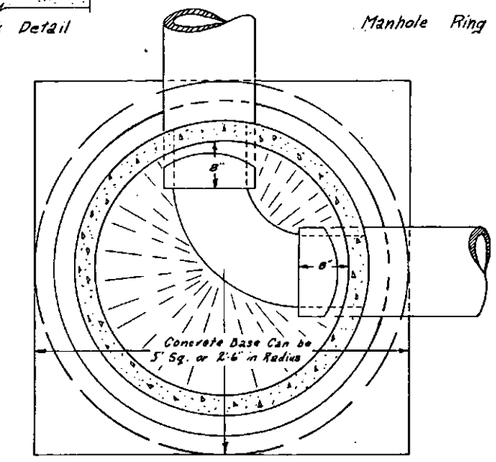
The Tongue or Groove of the Joint Shall Contain One Line of Circumferential Reinforcement Equal in Area to that in the Ring or Cone Section.



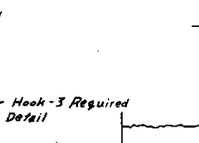
Typical Through Manhole Plan



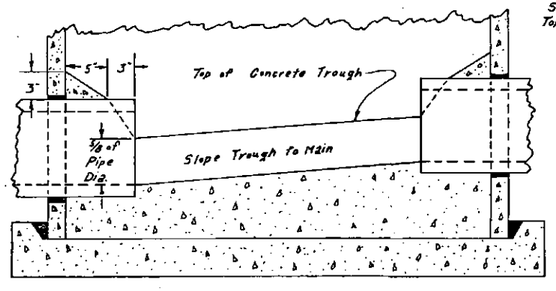
Type I Concrete Manhole - Typical Section



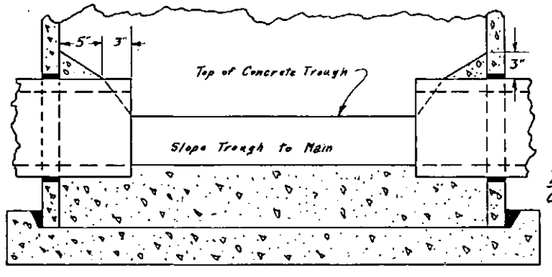
Typical Drop Manhole Plan



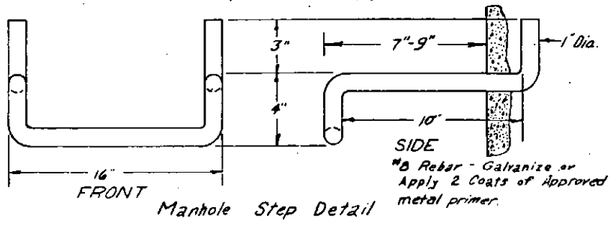
Tie Hook Detail



Drop Manhole - Typical Section



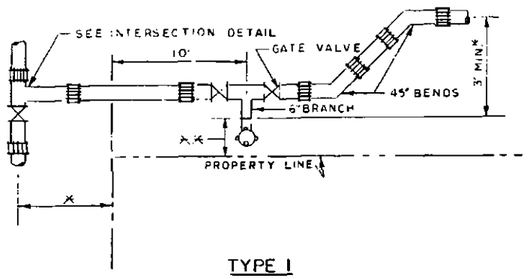
Through Manhole - Typical Section



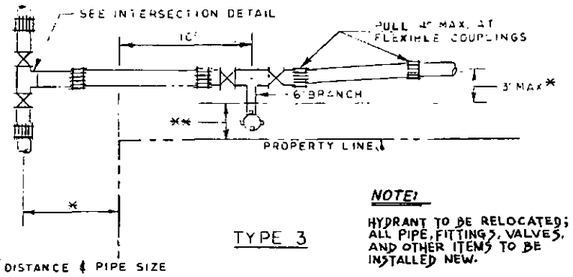
Manhole Step Detail

#8 Rebar - Galvanize or Apply 2 Coats of Approved metal primer.

SANITARY MANHOLE DETAILS



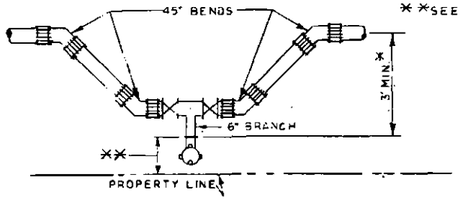
TYPE 1



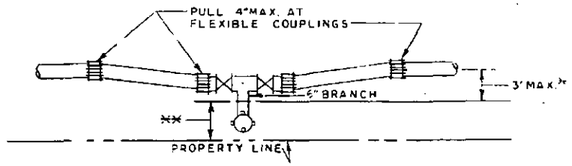
TYPE 3

NOTE:
HYDRANT TO BE RELOCATED; ALL PIPE, FITTINGS, VALVES, AND OTHER ITEMS TO BE INSTALLED NEW.

*SEE PLANS FOR DISTANCE & PIPE SIZE
**SEE SETTING DETAILS.

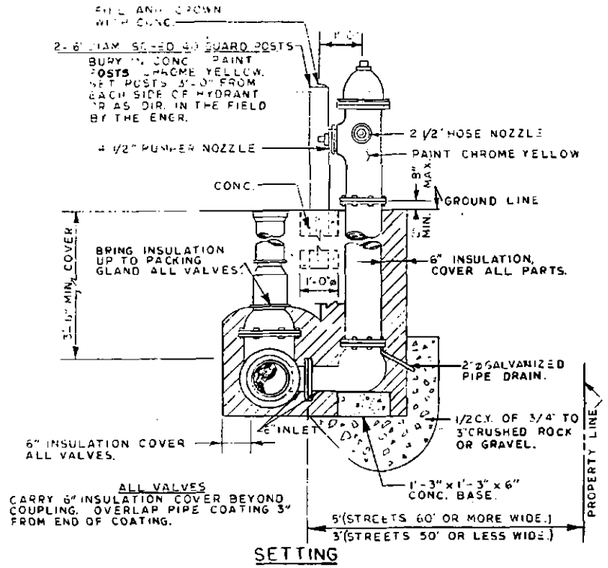


TYPE 2

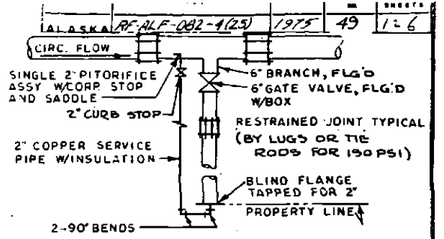


TYPE 4

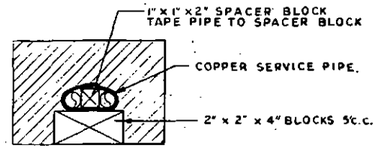
FIRE HYDRANT INSTALLATION
NO SCALE



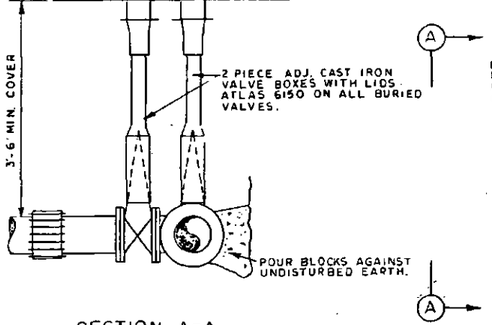
SETTING



FIRE SPRINKLER CONNECTION
N.T.S.

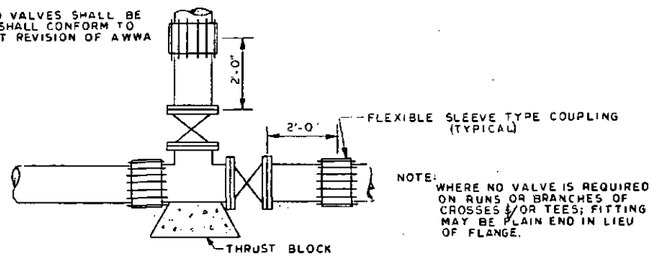


SECTION C-C



SECTION A-A

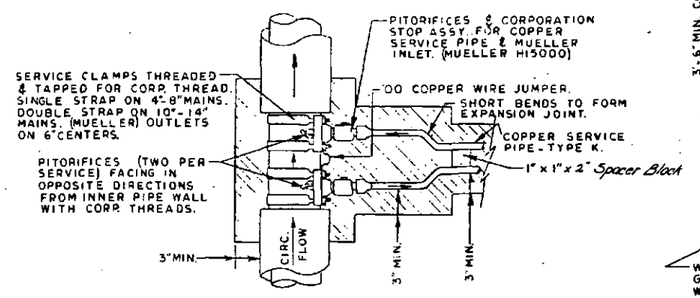
BURIED VALVES SHALL BE NRS & SHALL CONFORM TO LATEST REVISION OF AWWA C500.



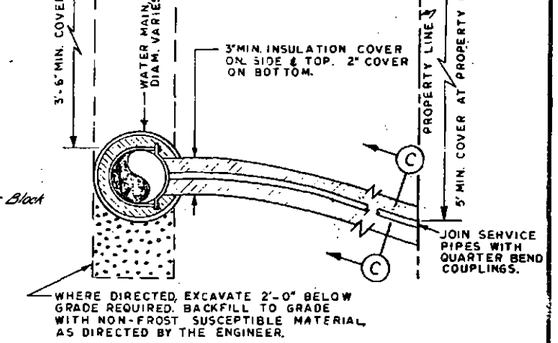
NOTE: WHERE NO VALVE IS REQUIRED ON RUNS OR BRANCHES OF CROSSES &/OR TEES; FITTING MAY BE PLAIN END IN LIEU OF FLANGE.

PLAN

TYPICAL BURIED INTERSECTION
NO SCALE

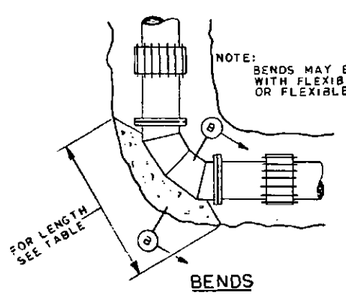


PLAN

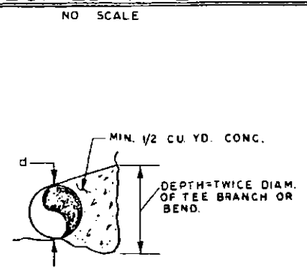


ELEVATION

TYPICAL SERVICE CONNECTION
NO SCALE



BENDS



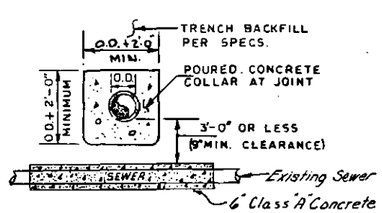
SECTION B-B

THRUST BLOCK
NO SCALE

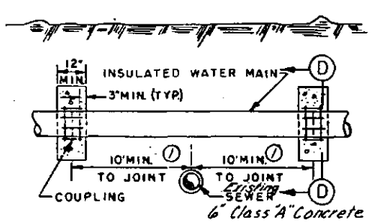
BEND DEGREES	LENGTH OF BEARING AREA				
	d=6"	d=8"	d=10"	d=12"	d=14"
22 1/2°	0'-10"	1'-2"	1'-4"	1'-8"	2'-0"
45°	1'-9"	2'-2"	2'-9"	3'-3"	3'-9"
*60°	2'-2"	2'-10"	3'-6"	4'-3"	5'-0"
90°	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"

*FOR DEAD END OR TEE USE LENGTH FOR A 60° BEND.

BLOCKING TABLE



SECTION D-D



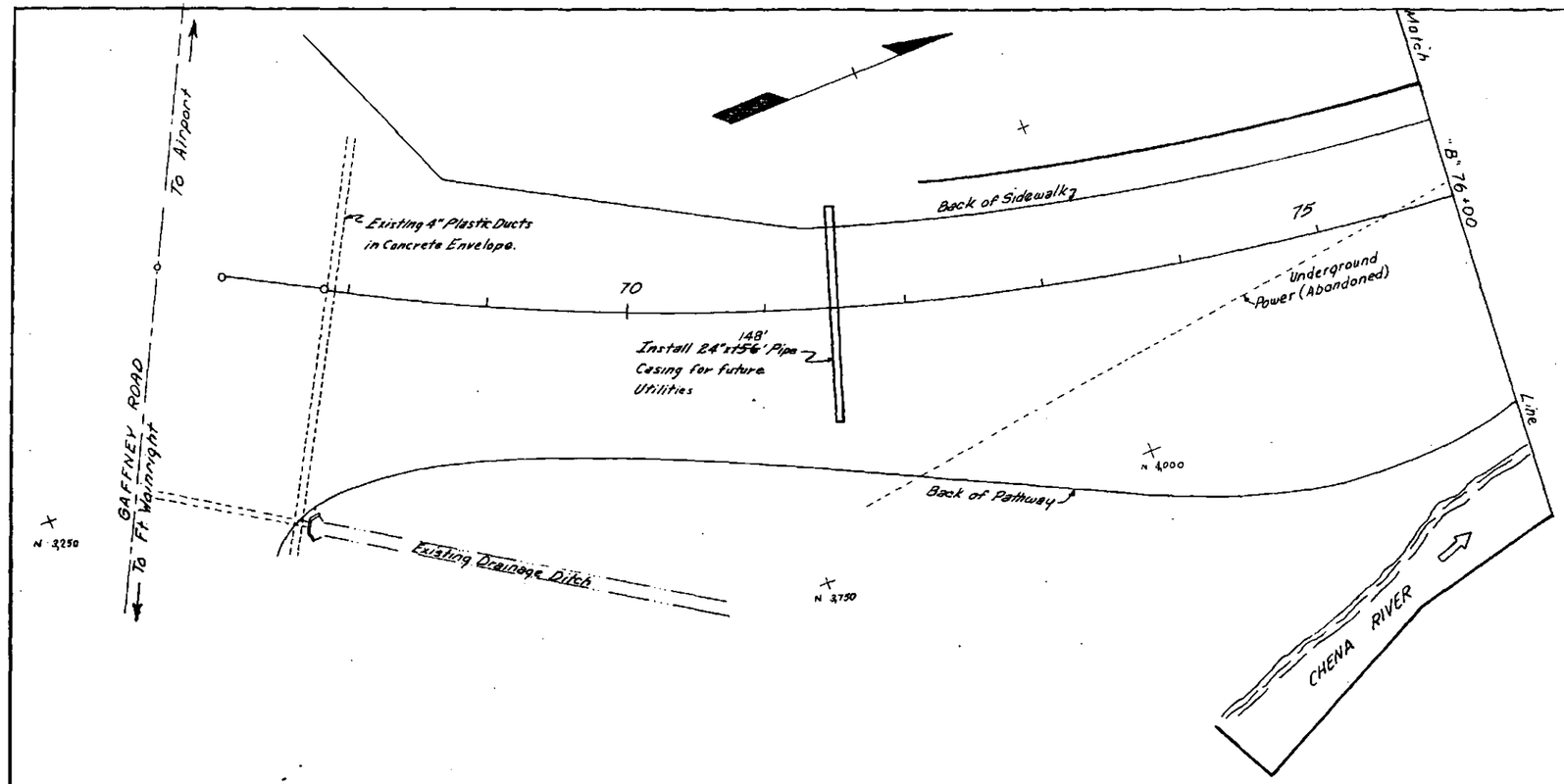
ELEVATION

① Measured from sewer line.

SEWER CROSSING

WATER LINES GENERAL DETAILS

STATE	PROJECT DESIGNATION	YEAR
ALASKA	RF-ALF-062-1(25)	1975

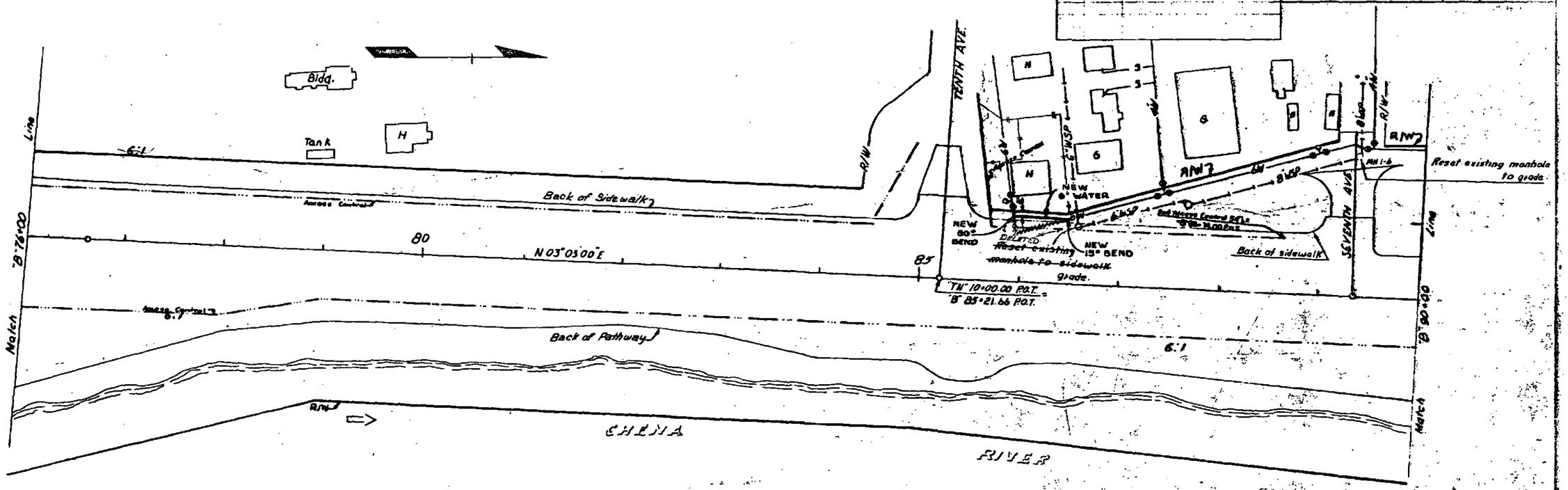


CASING FOR FUTURE UTILITIES

Item	Station	Length	Invert Elev.		Excavation	
			Inlet	Outlet	Struct	Bed.
24" Casing Pipe	"B" 71+50	156' 148'	430.5	430.5	46.4	5.5

PROPOSED & EXIS
SEWER & WATER UTILITIE

REVISIONS			STATE	PROJECT DESIGNATION	YEAR		
NO.	DATE	DESCRIPTION	ALASKA	AF-ALF-062-4(23)	1975	51	126



SANITARY SEWER

ITEM	STATION	LOCATION	QUANITY	Excavation Struct.	Excavation Bed.
~~Adjust existing manhole~~	~~B 86+44~~	~~55' Lt.~~	~~1 Each~~		
Adjust existing manhole	B 89+12	140' Lt.	1 Each	3.7 C.Y.	0

WATER LINES

EXPRESSWAY / TENTH AVE.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1-6", 15° BEND	ONE		
2-6", 60° BEND	ONE		
3-6" WATER PIPING	~~55'~~ ± 52'	55.0	0

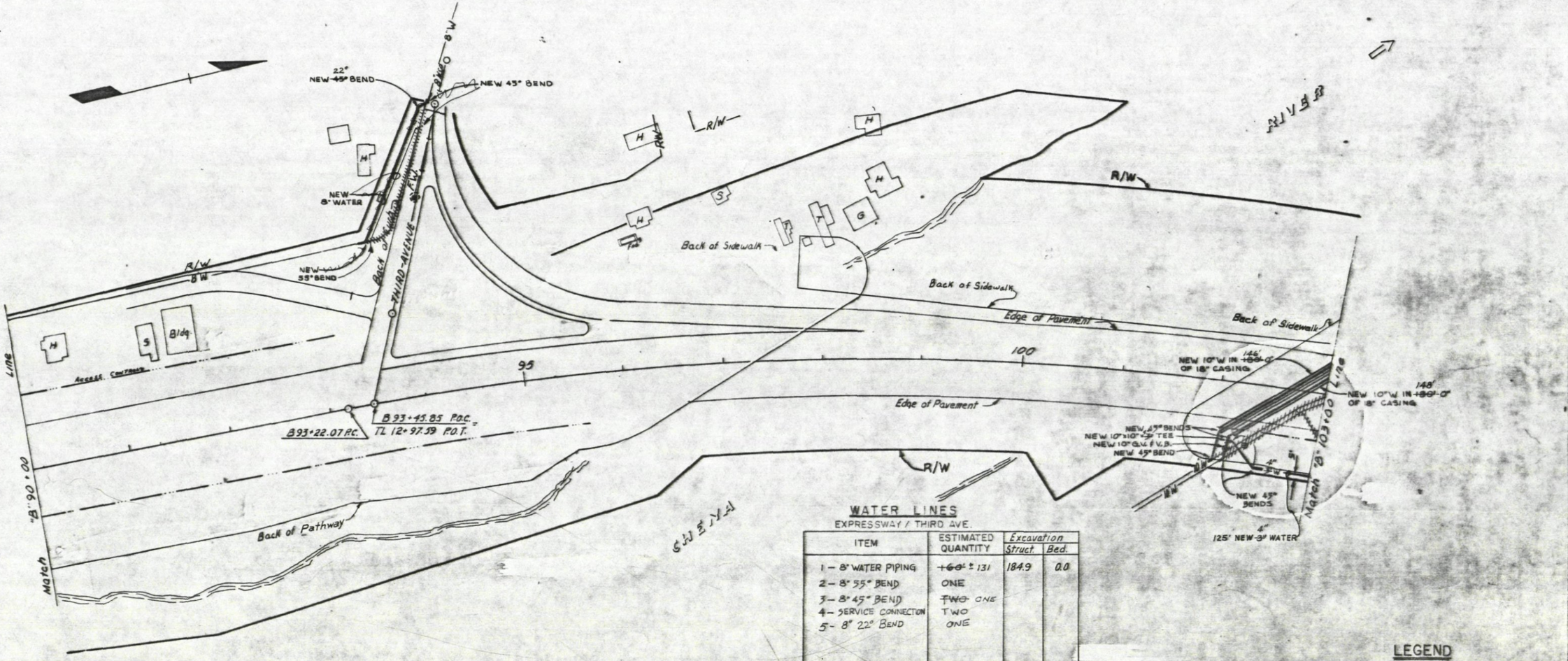
Note: Bends, Reducers, Tees, Crosses and ~~Water Valve Manhole~~ shall not be paid for directly but shall be incidental to other Pay Items.

LEGEND

- REDUCER IN PIPE LINE
- GATE VALVE (G.V.)
- FIRE HYDRANT
- CASING PIPING
- EXISTING WATER PIPING TO BE ABANDONED OR REMOVED.
- EXISTING WATER PIPING TO REMAIN.
- NEW WATER PIPING
- G.V. GATE VALVE
- V.B. VALVE BOX

PROPOSED & EXISTING SEWER & WATER UTILITIES

ALASKA | RF-ALF-062-4(23) | 1975 | 52 | 126



WATER LINES

EXPRESSWAY / THIRD AVE.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 – 8" WATER PIPING	~~+60'~~ ± 131	184.9	0.0
2 – 8" 55° BEND	ONE		
3 – 8" 45° BEND	~~TWO~~ ONE		
4 – SERVICE CONNECTION	TWO		
5 – 8" 22° BEND	ONE		

EXPRESSWAY / SLATER DRIVE

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 – 3" WATER PIPING	~~125'~~ ± 164'	55.0	0.0
2 – 10" WATER PIPING	~~210'~~ ± 208'	231.1	0.0
3 – 10" WATER PIPING	~~240'~~ ± 212'	231.1	0.0
4 – 18" CASING PIPE	~~180'~~ 146'		26.7
5 – 18" CASING PIPE	~~180'~~ 148'		26.6
6 – 10"x10"x3" TEE	ONE		
7 – 10" G.V. & V.B.	ONE		
8 – 10" 45° BEND	~~SIX~~ FOUR		
9 – 3" 45° BEND	THREE		

NOTE: PIPING ESTIMATIONS GIVEN HERE TO INCLUDE PIPING CONTINUATION ON NEXT SHEET.

SANITARY SEWER

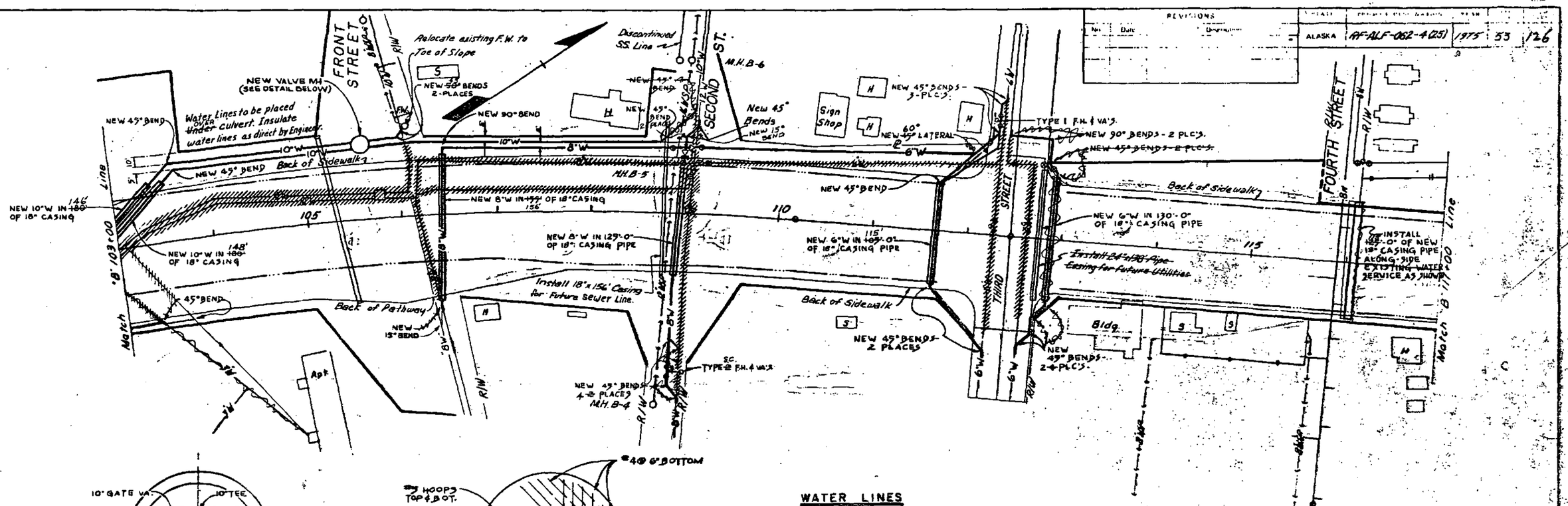
ITEM	STATION	LOCATION	AMT. REQD.
Adjust Existing Flush Well	"B" 94+18	196' Lt.	1 Each

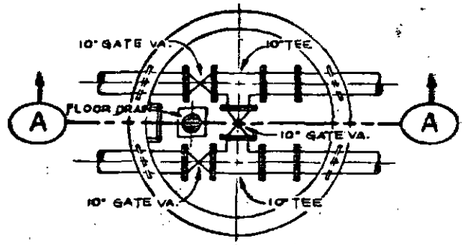
LEGEND

- GATE VALVE (G.V.)
- CASING PIPING
- ABANDONED OR REMOVED PIPING
- EXISTING WATER PIPING TO REMAIN
- NEW WATER PIPING
- G.V. GATE VALVE
- V.B. VALVE BOX
- F.W. • FLUSH WELL

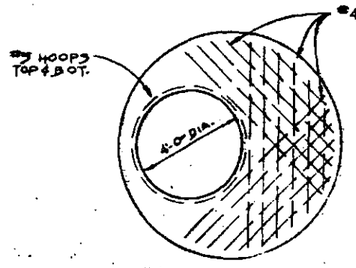
PROPOSED & EXISTING SEWER & WATER UTILITIES

REVISIONS						
No.	Date	Description	STATE	PROJECT NO.	YEAR	SHEET	TOTAL SHEETS
			ALASKA	AF-ALF-062-4(25)	1975	53	126

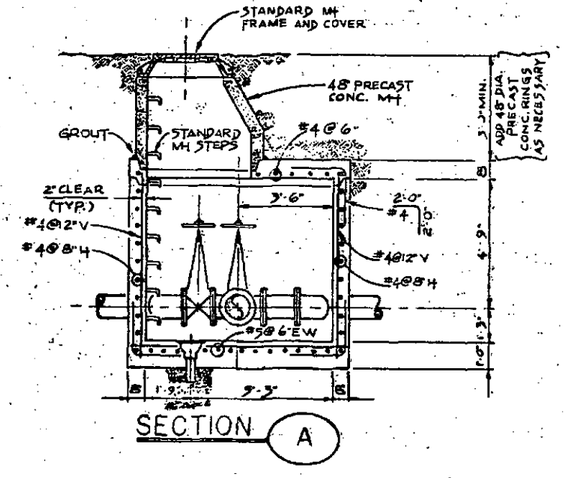




NEW VALVE MANHOLE PLAN



TOP STEEL PLAN



SECTION A

NOTE:

REMOVE OR COMPLETELY FILL EXISTING VALVE MANHOLE WITH ACCEPTABLE FILL MATERIAL.

NOTE:

All Valve, Couplings & Fittings Shall have a 2" Coating of thermal Insulation.

WATER LINES

EXPRESSWAY / FRONT ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 8" WATER PIPING	~~410'~~ 462'	134.8	0.0
2 - 10" WATER PIPING	~~250'~~ 278'	253.0	0.0
3 - 10" WATER PIPING	~~520'~~ 528'	253.1	0.0
4 - 18" CASING PIPE	~~155'~~ 156'	0.0	2.8
5 - VALVE MANHOLE	ONE	32.1	7.1
6 - a) 10" GATE VALVES	THREE		
b) 10" TEE'S	TWO		
6 - 8" 15° BEND	ONE		
7 - 8" 90° BEND	ONE		
8 - 10" ~~90°~~ 45° BEND	TWO		
9 - 10" 45° BEND			
10 - SERVICE CONNECTIONS	TWO		

EXPRESSWAY / THIRD ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 6" WATER PIPING	~~325'~~ 322'	192.7	0.0
2 - 6" WATER PIPING	~~265'~~ 203'	152.0	0.0
3 - 6" VALVES & V.B.	THREE		
4 - 6" ~~45°~~ 60° LATERAL	ONE		
5 - 6" 45° BEND	~~TWELVE~~ Eight		
6 - 6" 90° BEND	TWO		
7 - 18" CASING PIPE	~~109'~~ 115'	15.6	0.0
8 - 18" CASING PIPE	~~130'~~ 136'	0.0	19.3
9 - TYPE 1 F.H.	ONE		
10 SERVICE CONNECTIONS	~~FOUR~~ ONE		

EXPRESSWAY / SECOND ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 6" Water Piping	~~309'~~ 304'	184.9	0.0
2 - 8" Water Piping	~~260'~~ 235'	113.4	0.0
3 - 10" Water Piping	~~50'~~ 46'	54.7	0.0
4 - 12" Water Piping	~~30'~~ 14'	33.9	0.0
5 - 18" Casing Pipe	125' ±		18.5
6 - 6" Valve & V.B.	One		
7 - 8"x6" Reducer	One		
8 - 8" Valves & V.B.	~~Three~~ Four		
9 - 8" 45° Bends	~~Two~~ Four		
~~10 - 8" 8"x12"x12" Cross~~	~~One~~		
11 - 10" Valve & V.B	One		
12 - 10" 45° Bends	Two		
13 - 12"x8" Reducer	One		
14 - 12" 45° Bends	Two		
15 - Type 2 F.H.	One		
16 - Service Connection	One		

EXPRESSWAY / FOURTH ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 18" Casing	~~125'~~ 124' ±	85.2	23.2

CASING FOR FUTURE UTILITIES

ITEM	STATION	LENGTH	Invert Elev. Inlet	Invert Elev. Outlet	Excavation Struct.	Excavation Bed.
18" Casing Pipe	B 108+73	156'	428.7	428.1	211.7	27.0
24" Casing Pipe	B 112+14	139'	428.5	428.5	166.4	0.0

LEGEND

- REDUCER IN PIPE LINE
- GATE VALVE (G.V.)
- FIRE HYDRANT
- VALVE MANHOLE (EXIST.)
- ABANDONED OR REMOVED PIPING
- VALVE MANHOLE (NEW)
- EXISTING WATER PIPING TO REMAIN
- NEW WATER PIPING
- CASING PIPING
- G.V. GATE VALVE
- V.B. VALVE BOX

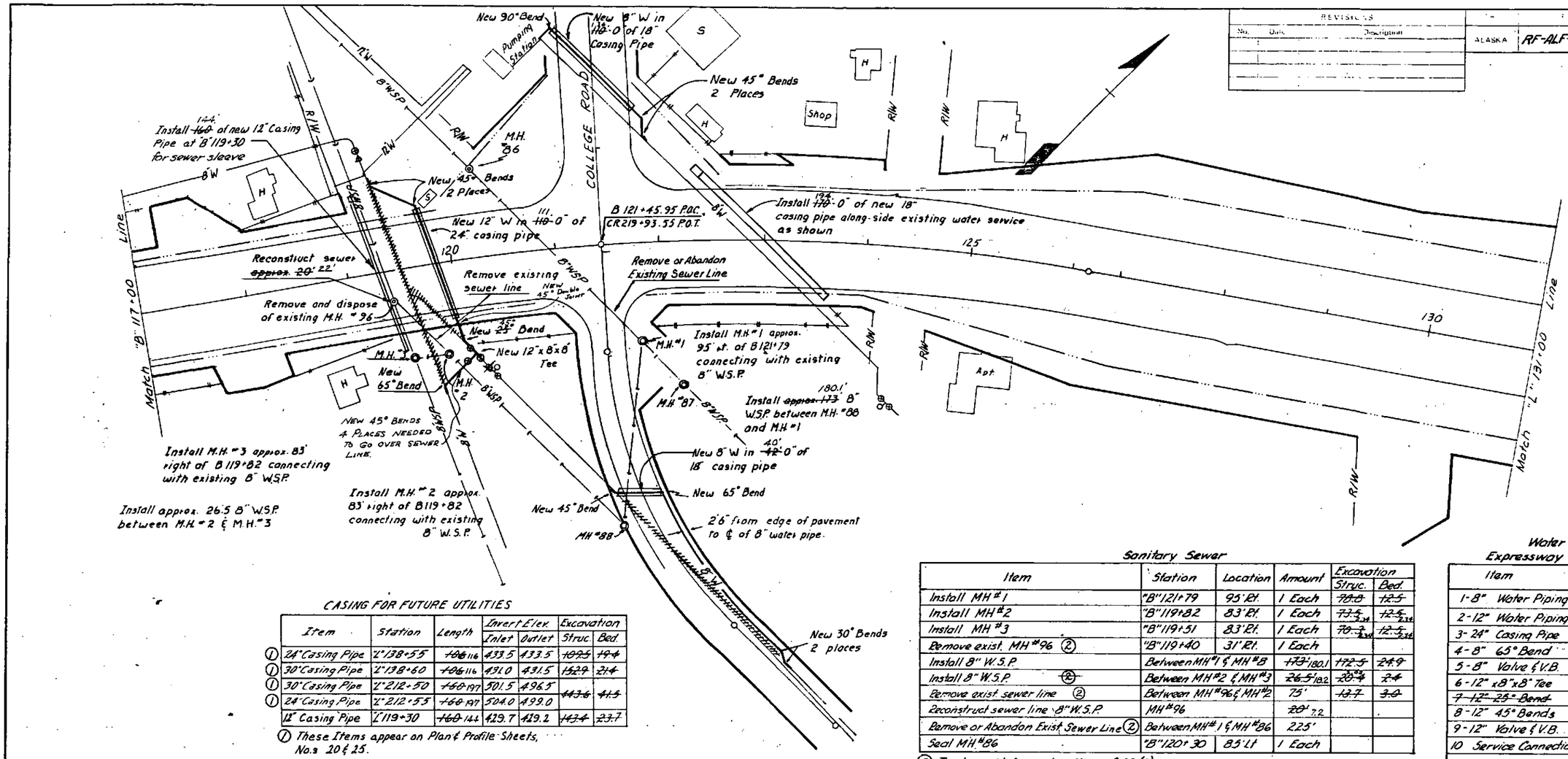
SANITARY SEWER

ITEM	STATION	LOCATION	AMT. REQ'D	Excavation Struct.	Excavation Bed.
Adjust existing manhole B-3	B 108+87	55' Lt.	1 Each	9.3	0.0
Relocate existing F.W. to Slope Toe	B 108+00	96' Lt.	1 Each		

PROPOSED & EXISTING SEWER & WATER UTILITIES

REVISIONS		
No.	Date	Description

ALASKA	RF-ALF-062-4(25)	1975	54	126



CASING FOR FUTURE UTILITIES

Item	Station	Length	Invert Elev. Inlet	Invert Elev. Outlet	Excavation Struc.	Excavation Bed.
① 24" Casing Pipe	L 138+55	+06 116	433.5	433.5	~~109.5~~	~~19.4~~
① 30" Casing Pipe	L 138+60	+06 116	431.0	431.5	~~152.9~~	~~21.4~~
① 30" Casing Pipe	L 212+50	+60 197	501.5	496.5	~~443.6~~	~~41.5~~
① 24" Casing Pipe	L 212+55	+60 197	504.0	499.0		
12" Casing Pipe	L 119+30	+60 144	429.7	429.2	~~143.4~~	~~23.7~~

① These Items appear on Plan & Profile Sheets, No.s 20 & 25.

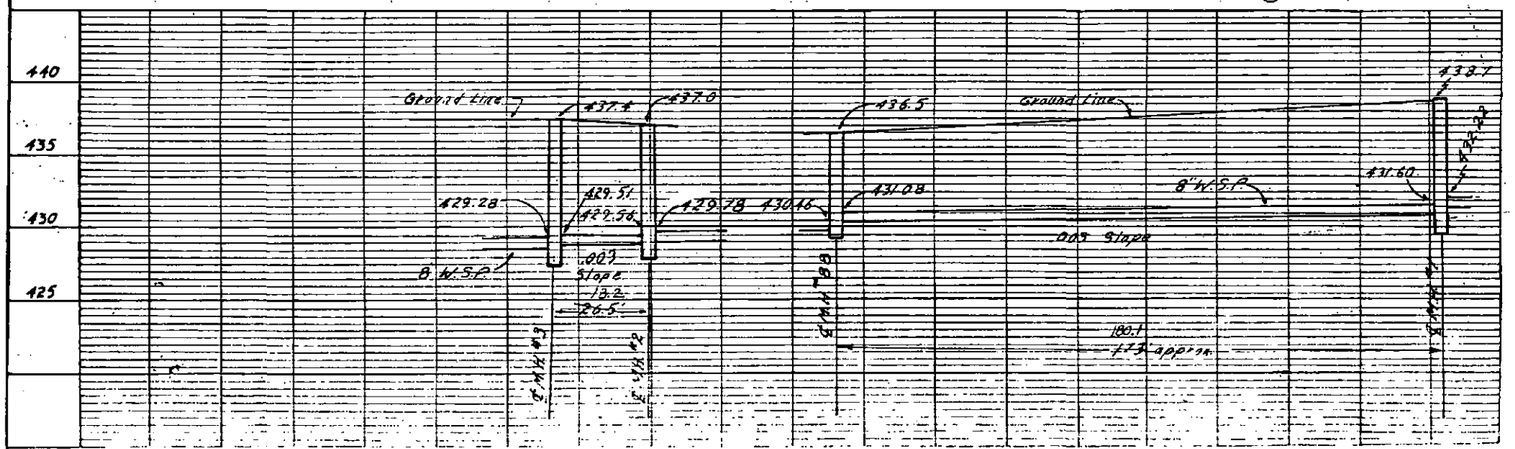
Sanitary Sewer

Item	Station	Location	Amount	Excavation Struc.	Excavation Bed.
Install MH #1	"B" 121+79	95' Rt.	1 Each	~~78.8~~	~~12.5~~
Install MH #2	"B" 119+82	83' Rt.	1 Each	~~77.5~~ 2.14	~~12.5~~ 2.14
Install MH #3	"B" 119+51	83' Rt.	1 Each	~~70.3~~ 2.14	~~12.5~~ 2.14
Remove exist. MH #96 ②	"B" 119+40	31' Rt.	1 Each		
Install 8" W.S.P.	Between MH #1 & MH #B		~~173'~~ 180.1	~~172.5~~	~~24.9~~
Install 8" W.S.P. ②	Between MH #2 & MH #3		~~26.5'~~ 18.2	~~20.4~~	~~2.4~~
Remove exist sewer line ②	Between MH #96 & MH #2		75'	~~13.7~~	~~3.0~~
Reconstruct sewer line 8" W.S.P.	MH #96		~~20'~~ 7.2		
Remove or Abandon Exist. Sewer Line ②	Between MH #1 & MH #96		225'		
Seal MH #86	"B" 120+30	85' Lt	1 Each		

② To be paid for under item 202(1)

Water Lines
Expressway & Timberland Drive

Item	Quantity	Excavation Struc.	Excavation Bed.
1-8" Water Piping	~~40'~~ 4.4	21.9	
2-12" Water Piping	~~200'~~ 2.10		
3-24" Casing Pipe	~~110'~~ 111'		16.3
4-8" 65° Bend	one		
5-8" Valve & V.B.	two		
6-12"x8"x8" Tee	one		
~~7-12"-25° Bend~~	~~one~~		
8-12" 45° Bends	~~two~~ Five		
9-12" Valve & V.B.	one		
10 Service Connection	two		
11-8" 45° BENDS	Four		



LEGEND

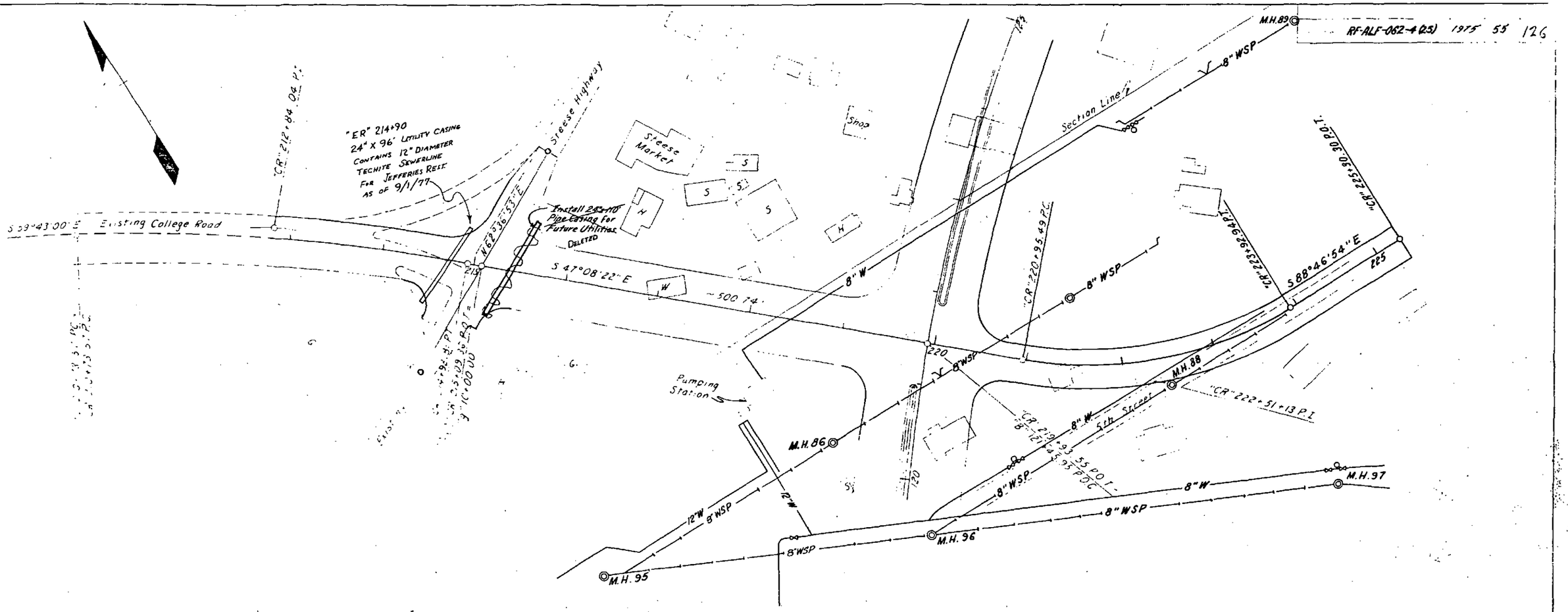
- Reducer in pipe line
- Gate valve
- Fire hydrant
- Pipe casing
- Removed or Abandoned water piping
- W — Existing water piping to remain
- W — New water piping
- G.V. Gate Valve
- V.B. Valve Box

Expressway & College Road

Item	Quantity	Excavation Struc.	Excavation Bed.
1-8" Water Piping	~~150'~~ 154'	51.4	
2-18" Casing Pipe	~~110'~~ 136'		16.3
3-18" Casing Pipe	~~170'~~ 194'		25.1
4-8" 45° Bends	two		
5-8" 90° Bend	one		
6-8" Water Piping	~~250'~~ 315'	148.1	
7-18" Casing Pipe	~~42'~~ 40'		6.2
8-8" 30° Bends	two		
9-8" 45° Bend	one		
10-8" 65° Bend	one		
11 - SERVICE CONNECTOR	One		

PROPOSED & EXISTING SEWER & WATER UTILITIES

RF-ALF-062-4(25) 1975 55 126

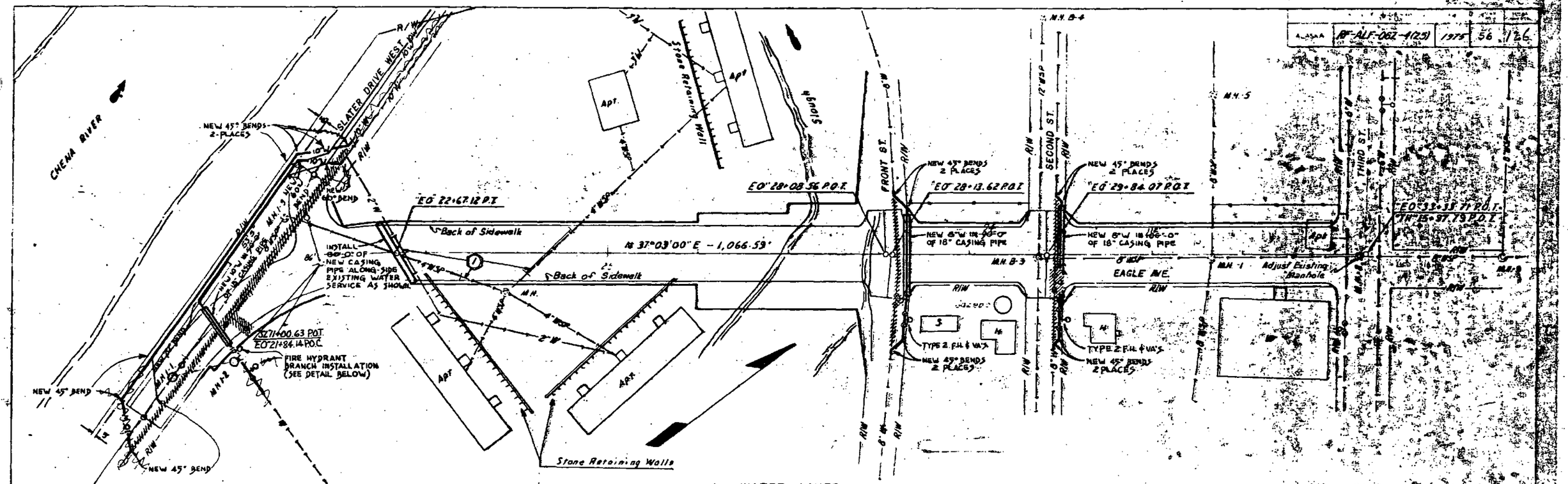


CASING FOR FUTURE UTILITIES

	Item	Station	Length	Invert Elev. Inlet	Invert Elev. Outlet	Excavation Struct.	Excavation Bed.
	~~24" Casing Pipe~~	~~"CR" 215+40~~	~~110~~	~~432.7~~	~~432.7~~	94.5	16.3
E.W.O. #11	24" Casing Pipe	"CR" 214+90	96'	433.09	433.09		

PROPOSED & EXISTING
SEWER & WATER UTILITIES

ALASKA	AP-ALF-062-4(25)	1975	56 .1/26



WATER LINES

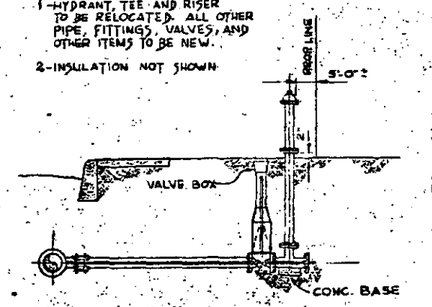
SLATER DRIVE WEST / EAGLE AVE.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 10" WATER PIPING	~~360'~~ ± 287	537.8	
2 10" WATER PIPING	~~450'~~ ± 349	254.2	
3 CASING PIPE FOR 2" WATER SERVICE TO APARTMENTS	~~80'~~ 86		11.9
4 18" CASING PIPE	~~50'~~ 53'	28.1	7.4
5 10" 45° BENDS	FOUR		
6 10" 60° BENDS	TWO		
7 10" 70° BEND	ONE		
8 FIRE HYDRANT AND RELATED 6" VALVE & V.B.	ONE		
9. 6" WATER PIPING	14'		
10. 10" VALVE & V. Box	ONE		

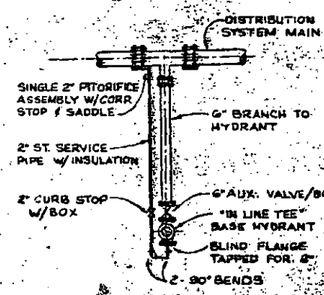
SANITARY SEWER

ITEM	STATION	LOCATION	AMT. REQ'D.	Excavation Struct.	Excavation Bed.
Adjust Existing Manhole 1-1	"EO" 19+75	1' Rt.	1 Each	1.9'	0.0'
Adjust Existing Manhole B-3	"EO" 29+76	5' Rt.	1 Each	1.9	0.0'
Adjust Existing Manhole 1	"EO" 31+66	4' Rt.	1 Each	1.9	0.0
Adjust Existing Manhole 1-3	"SC" 10+45	18' Rt.	1 Each		

NOTE:
1 - HYDRANT, TEE AND RISER TO BE RELOCATED. ALL OTHER PIPE, FITTINGS, VALVES, AND OTHER ITEMS TO BE NEW.
2 - INSULATION NOT SHOWN



SECTION



PLAN

HYDRANT BRANCH INSTALLATION DETAIL
NO SCALE

EAGLE AVE. / FRONT ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 8" WATER PIPING	~~150'~~ ± 148	78.5	
2 - 18" CASING PIPE	~~90'~~ 94		11.9
3 - 8" 45° BENDS	FOUR		
4 - 8" VALVES & V.B.	TWO		
5 - TYPE 2 F.H.	ONE		
6 - SERVICE CONNETION	ONE		

EAGLE AVE. / SECOND ST.

ITEM	ESTIMATED QUANTITY	Excavation Struct.	Excavation Bed.
1 - 8" WATER PIPING	~~150'~~ ± 145	92.6	
2 - 18" CASING PIPE	~~106'~~ 112		15.6
3 - 8" 45° BENDS	FOUR		
4 - 8" VALVES & V.B.	TWO		
5 - TYPE 2 F.H.	ONE		
6 - SERVICE CONNECTIONS	~~TWO~~		

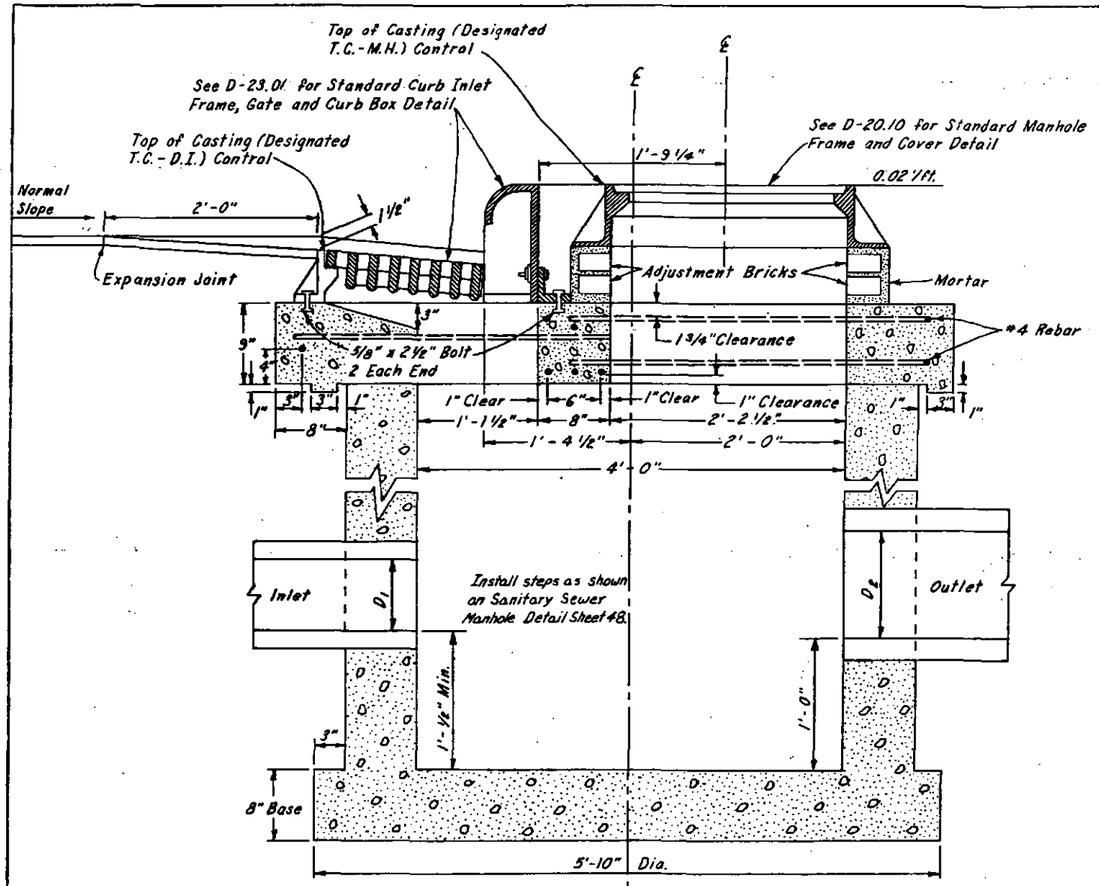
NOTE:
(1) 298' Place ~~400'~~ x 2' x 4' Insulation Board directly below the selected material over existing water & sewer lines designated to remain.

LEGEND

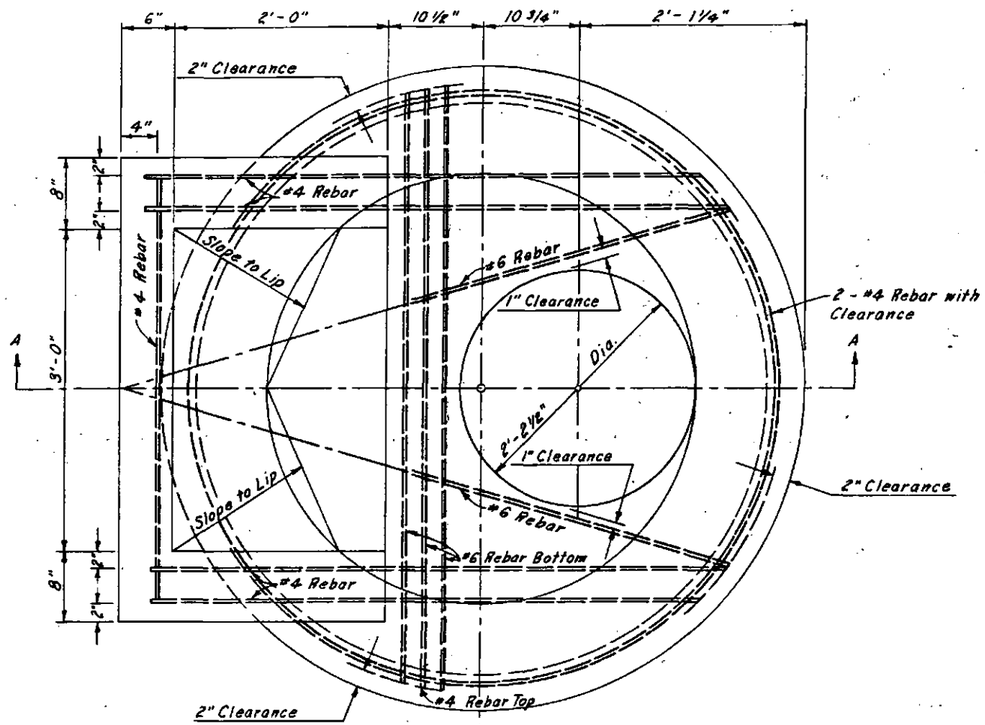
- GATE VALVE (G.V.)
- FIRE HYDRANT
- CASING PIPE
- ABANDONED OR REMOVED PIPING
- EXISTING WATER PIPING TO REMAIN
- NEW WATER PIPING
- G.V. GATE VALVE
- V.B. VALVE BOX

PROPOSED & EXISTING SEWER & WATER UTILITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	57	126



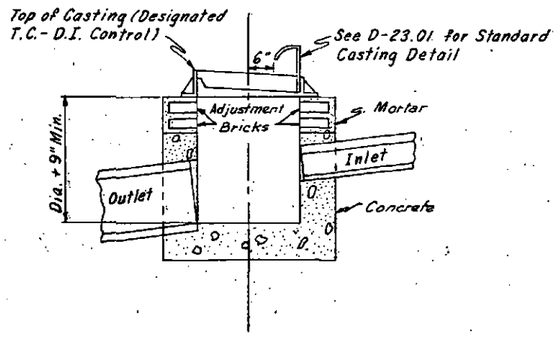
SECTION A-A
COMBINATION DROP INLET - MANHOLE CAP & CATCH BASIN DETAILS



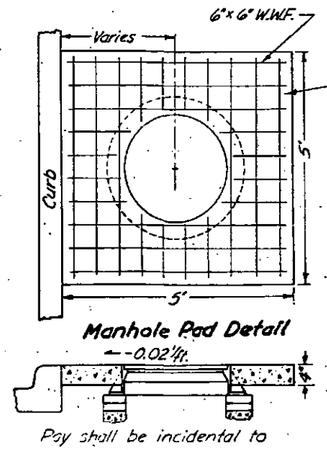
COMBINATION DROP INLET - MANHOLE CAP DETAIL

NOTES

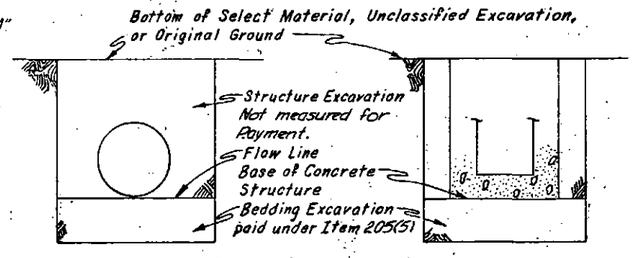
1. Drop Inlet - Manholes shall consist of base and barrel of a standard manhole capped with a reinforced lid as detailed on this sheet and of Standard Drawings D-20.10.
2. All manholes and combination drop inlet manholes require steps and ladder. See D-20.10 of Standard Drawings.
3. All drop inlets shall be Type "A" as detailed on D-26.00 of Standard Drawings.
4. Curb inlet frames will be securely anchored to drop inlet boxes and drop inlet - manholes reinforced concrete covers. See detail this sheet and D-24.01 of Standard Drawings.
5. All pipes will be finished off flush with the inside walls of concrete drop inlets
6. Top of casing control for drop inlets and manholes as shown on this sheet.
7. All concrete shall be class "A".
8. All exposed concrete edges shall be chamfered ¾".
9. Inlets shall be parallel to roadway centerline and grade unless otherwise directed by the Engineer.
10. Modify Std. Drawing D-20.10 with catch basin as shown on this sheet.
11. Unit price shall include all ladders, castings, and casting assemblies.



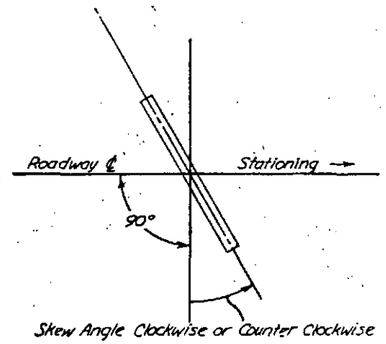
TYPE "A"
CONCRETE INLET BOX



Pay shall be incidental to Item 204(1).



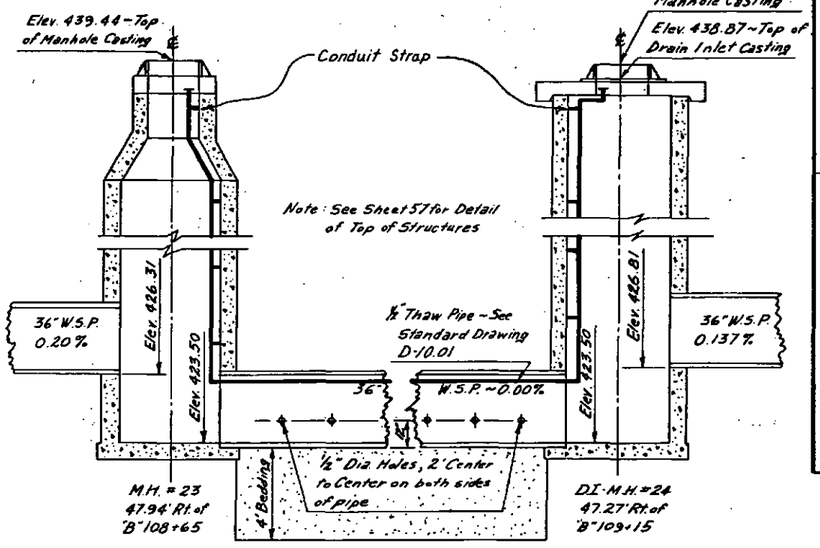
Note: Bedding excavation as follows:
1. For all M.H.'s, D.I.'s and concrete structures excavate 1.5' below base or as directed by Engineer, and 1' outside structure.
2. For wood stave pipes excavate 1.0' below flow line or as directed by Engineer, and 18" outside pipe wall.
3. For pipe conduits excavate 2.0' below flow line and use Type "A" Foundation Stabilization as shown on Standard Drawing D-02.01.

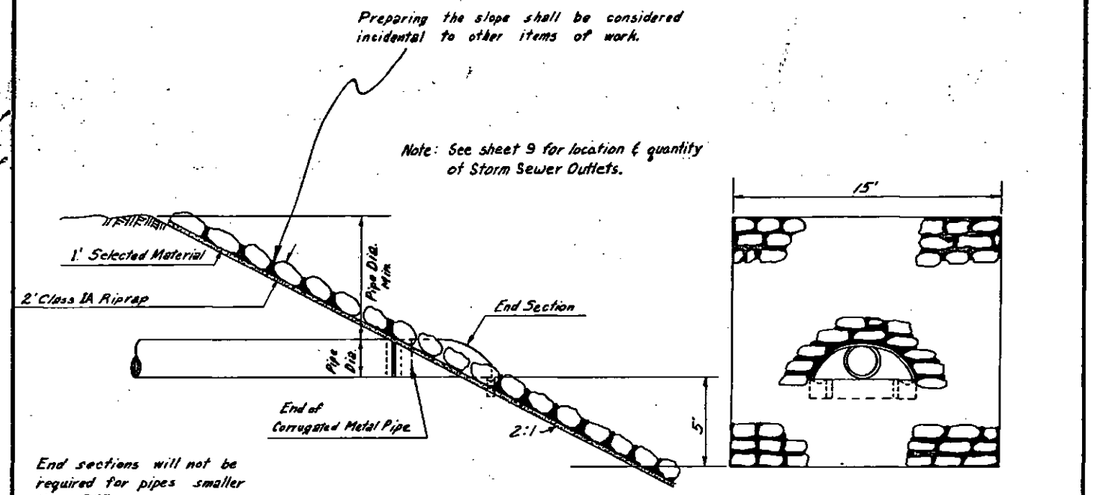


Skew Angle Clockwise or Counter Clockwise

MISCELLANEOUS DRAINAGE DETAILS

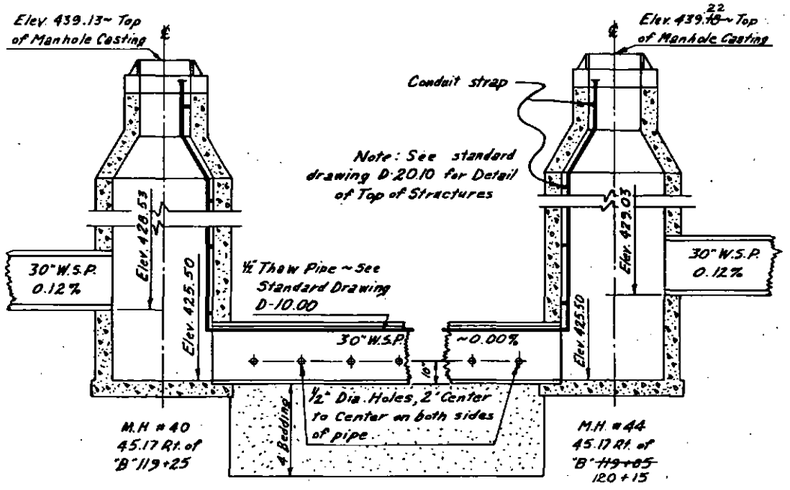
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	58	126



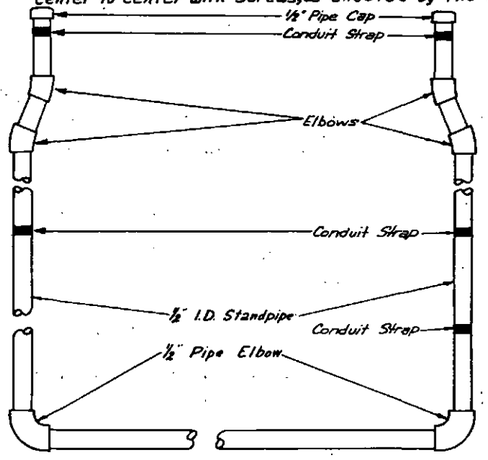


STORM SEWER OUTLET DETAILS

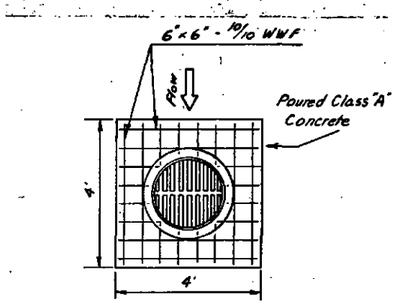
1. All Material and Workmanship Shall be in Accordance With the State of Alaska, Standard Specifications for Highway Construction, Latest Edition.
2. All Pipe Shall be Standard Galvanized Steel Pipe A.S.T.M A-120-69 With Standard Fittings.
3. Thaw Pipe Fastener Straps and Screws Shall be Stainless Steel or Galvanized Steel.
4. Thaw Pipe Will be Positioned in Each Installation as Directed by the Engineer.
5. Rigid Conduit Straps to be fastened securly with hangers on 10' Min. Center to Center with screws, as directed by the Eengineer.



INVERTED SIPHON DETAILS



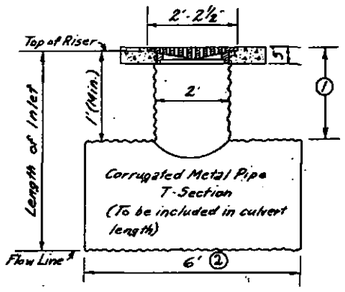
½" I.D. THAW PIPE



TOP VIEW

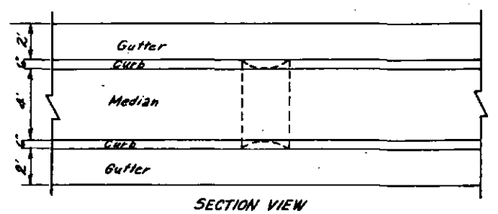
① To be paid for under Item 604 (5C).

② To be paid for under Item 603 (22).



SECTION VIEW

DEPRESSED MEDIAN DRAIN DETAIL



WEEP HOLE DETAIL
(Sta. "B" 123+60)

MISCELLANEOUS DRAINAGE DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	59	126

STORM DRAIN PIPE SUMMARY

FROM ① STRUCTURE	FROM ① STATION	FROM ① ELEVATION	TO ② STRUCTURE	TO ② STATION	TO ① ELEVATION	SLOPE V.F.T.	PIPE CONDUIT 12" LINEAR FOOT	18" LINEAR FOOT	24" LINEAR FOOT	WOOD STAVE 30" LINEAR FOOT	36" LINEAR FOOT	STRUCTURE EXCAVATION CU. YD.	BEDDING EXCAVATION CU. YD.	BEDDING MATERIAL Cu. Y.D.
DI-1	B 69+10.5 Rt.	~~431.85~~ 432.01	Ditch	B 69+10.5 Rt.	~~429.79~~ 430.28	.0128		76 81				206.36	13.25	17.11
DI-2	B 69+10.5 Lt.	432.45	DI-1	B 69+10.5 Rt.	431.85	.0125		76 81				0	0	0
DI-3	B 69+30 Lt.	~~432.90~~ 433.06	DI-2	B 69+10.5 Lt.	432.45	.0125		76 81				0	0	0
FI-4	B 71+00 Lt.	436.80	DI-3	B 69+30 Lt.	433.40	.02	170 180					85.56	22.22	25.19
DI-5	B 76+60 Rt.	431.34	River ③	B 76+60 Rt.	430.00	.0079			170 216			82.22	27.50	28.33
DI-MH-6	B 76+60 Lt.	~~432.82~~ 432.62	DI-5	B 76+60 Rt.	~~431.82~~ 431.34	.015		52 81				0	0.73	8.67
DI-7	B 73+50 Lt.	438.89	DI-MH-6	B 76+60 Lt.	433.12	.0186	346 372					0	0	34.52
DI-8	B 73+50 Rt.	439.86	DI-7	B 73+50 Lt.	438.89	.0186	52 80					0	0	7.70
FI-9	B 76+35 Lt.	435.00	DI-MH-6	B 76+60 Lt.	434.00	.02		52 82				22.76	4.00	4.83
DI-10	B 80+00 Rt.	432.40	River	B 80+00 Rt.	430.00	.0387	62 80					38.48	4.19	5.93
DI-11	B 80+00 Lt.	437.17	DI-10	B 80+00 Rt.	434.53	.03	88					0.49	11.56	13.03
DI-MH-12	TN 10+81 Lt.	436.41	River	B 85+04 Rt.	430.00	.0324	174 198					22.10	7.04	26.67
DI-13	TN 10+81 Rt.	437.77	DI-MH-12	TN 10+81 Lt.	436.41	.0323	42 80					0	0	6.22
DI-MH-14	B 88+28 Rt.	433.12	River	B 88+28 Rt.	430.00	.041	76 80	66				50.10	18.52	11.28
DI-MH-15	B 88+28 Lt.	434.32	DI-MH-14	B 88+28 Rt.	433.12	.0136	88					16.69	11.56	13.04
FI-17	B 88+70 Lt.	435.60	DI-MH-15	B 88+28 Lt.	434.32	.02	64 52					17.83	8.00	9.48
DI-18	B 93+80 Rt.	438.80	River	B 93+80 Rt.	430.00	.176	50 71					3.89	4.44	7.41
DI-19	B 93+80 Lt.	439.60	DI-18	B 93+80 Rt.	438.80	.016	58 14					0	0	7.41
FI-20	TL 11+80 Lt.	441.07	DI-19	B 93+80 Lt.	439.60	.015	90 104					0	0	
DI-MH-21	B 105+65 Rt.	425.71	River	Lt. ③	425.00	.0024					356	756.60	33.33	33.33
MH-23	B 108+65 Rt.	426.31	DI-MH-21	B 105+65 Rt.	425.71	.002					300	453.57	0	0
DI-22	B 105+65 Lt.	444.30	DI-MH-21	B 105+65 Rt.	431.30	.25	52 3					0	0	0
DI-MH-24	B 109+15 Rt.	423.50	MH-23	B 108+65 Rt.	423.50	0.00					50	112.93	0	0
FI-25	B 109+15 Rt.	435.10	DI-MH-24	B 109+15 Rt.	434.08	.03	34 0					7.96	0	0
FI-26	B 109+15 Lt.	435.45	DI-MH-24	B 109+15 Rt.	430.41	.04	126					70.29	0	0
DI-MH-28	B 111+72.64 Rt.	427.16	DI-MH-24	B 109+15 Rt.	426.81	.00137					256	405.62	0	0
DI-27	B 110+60 Lt.	436.43	DI-MH-28	B 111+72.64 Rt.	428.75	.06	128 0					35.14	0	0
DI-33	TN 12+31.5 Rt.	432.04	DI-MH-28	B 111+72.64 Rt.	429.16	.04	72 68					28.93	0	0
DI-34	TN 12+31.5 Lt.	433.80	DI-33	TN 12+31.5 Rt.	432.04	.04	44					5.76	0	0
DI-29	B 111+75.23 Lt.	430.96	DI-MH-28	B 111+72.64 Rt.	428.66	.025		92 89				47.86	0	0
FI-30	B 112+00 Lt.	432.54	DI-29	B 111+75.23 Lt.	431.46	.03	36 0	36				20.74	0	0
DI-31	TN 10+38.9 Rt.	433.56	FI-30	B 112+00 Lt.	432.54	.03	34 6					5.24	0	0
DI-32	TN 10+38.9 Lt.	434.22	DI-31	TN 10+38.9 Rt.	433.56	.015	44 2					0.36	0	0
DI-MH-35	B 113+02 Rt.	427.29	DI-MH-28	B 111+72.64 Rt.	427.16	.001					130	180.53	0	0
DI-36	B 113+19 Lt.	434.69	DI-MH-35	B 113+02 Rt.	429.29	.06	90 88					24.12	0	0
MH-37	B 115+80 Rt.	428.12	DI-MH-35	B 113+02 Rt.	427.79	.0012			209.6 270			302.44	10.19	11.20
FI-38	B 115+80 Rt.	435.62	MH-37	B 115+80 Rt.	429.62	.25	24 203					7.80	2.07	3.56
FI-39	B 115+80 Lt.	435.32	MH-37	B 115+80 Rt.	429.62	.05	114		331.9 344			21.88	15.41	16.89
MH-40	B 119+25 Rt.	428.53	MH-37	B 115+80 Rt.	428.12	.0012						334.74	68.04	70.07
DI-MH-41	B 118+90 Lt.	434.40	MH-40	B 119+25 Rt.	430.56	.08	64 60					8.16	8.00	9.48
FI-42	B 119+10 Lt.	436.00	DI-MH-41	B 118+90 Lt.	434.40	.02	80 3					1.87	10.37	11.85
FI-43	B 119+45 Rt.	435.97	MH-40	B 119+25 Rt.	430.56	.0845	64 23					31.04	8.00	9.48
MH-44	B 119+85 Rt.	425.50	MH-40	B 119+25 Rt.	425.50	0.00			68 84.1			86.11	11.41	13.33
DI-MH-45	B 120+93 Rt.	429.16	MH-44	B 119+85 Rt.	~~423.03~~ 423.07	.0012			100 77.1			77.86	19.96	22.00
DI-MH-46	B 120+93 Lt.	432.10	DI-MH-45	B 120+93 Rt.	430.66	.015	96 7					49.31	12.74	14.22
DI-MH-47A	CR 218+95.55 Lt.	433.57	DI-MH-46	B 120+93 Lt.	432.10	.015	98 0					60.75	13.04	14.52
DI-47B	CR 216+55 Lt.	437.14	DI-MH-47A	CR 218+95.55 Lt.	433.57	.015	238 0					53.71	33.78	35.26
DI-47C	CR 216+55 Rt.	438.10	DI-47B	CR 216+55 Lt.	437.14	.015	64 1					24.32	8.00	9.48
DI-49	CR 221+35 Lt.	432.98	DI-MH-45	B 120+93 Rt.	430.66	.02	116 109 7					34.23	12.70	17.19
DI-50	CR 221+35 Rt.	433.62	DI-49	CR 221+35 Lt.	432.98	.02	32 29					5.54	3.26	4.74
DI-MH-52	B 125+00 Rt.	429.65	MH-45	B 120+93 Rt.	429.16	.0012			428 424			349.21	80.46	82.50
DI-51	B 125+00 Lt.	437.71	DI-MH-52	B 125+00 Rt.	436.15	.03	52 1					23.15	6.22	7.70
FI-61	L 127+50 Rt.	435.11	DI-MH-52	B 125+00 Rt.	431.15	.02	198 0	141.3				5.18	10.80	14.52
DI-67	EO 19+22.29 Lt.	434.30	River	EO 19+22.29 Lt.	430.00	.05	86 100					47.06	11.26	11.26
DI-68	EO 19+22.29 Rt.	435.02	DI-67	EO 19+22.29 Lt.	434.30	.02	36 43					0	0	0
							Totals	3370 2930	446 715.5	470 536	990 1388	992 1225	4526.59	513.75 701.10	637.38 913.37

① All Elevations are to ℄ of Structure
Summary Quantities Based Upon Stations in "To" Column.
② ③ Attach End Section

STORM DRAIN STRUCTURAL SUMMARY

STATION	LOCATION	STRUCTURE	Standard Manhole	Combination Inlet-MH.	Type "A" Inlet Box	Field Inlet	MH Frame & Cover	Inlet Frame & Cover (Curb)	Inlet Frame & Grate (Field)	STRUC. EX. C.Y.	BEDDING EX. C.Y.	BEDDING C.Y.	TOP OF STRUCTURE CASTING Manhole	TOP OF STRUCTURE CASTING Inlet	STRUCTURE INVERT
B 69+10.5	8.5' Rt.	DI-1			1			1		0	0	2.74		443.19 426	~~431.85~~ 432.01
B 69+10.5	39.43' Lt.	DI-2			1			1		0	0	2.74		442.66 81	~~432.45~~ 432.32
B 69+30	67.5' Lt.	DI-3			1			1		0	0	2.74		441.54 04	~~432.90~~ 433.06
B 71+00	100' Lt.	FI-4				1			1	8.31	5.36	2.74		438.3 76	436.80
B 76+60	8.5' Rt.	DI-5			1			1		1.89	5.36	2.74		440.94 96	431.34 43
B 76+60	45.11' Lt. 43.5' Rt.	DI-MH-6		1			1	1		0	12.50	8.17	440.64 29	440.04 43	431.62
B 73+50	43.5' Lt.	DI-7			1			1		0	0	2.74		440.97 76	438.89
B 73+50	8.5' Rt.	DI-8			1			1		0	0	2.74		441.87 5	439.86
B 76+35	83' Lt.	FI-9				1			1	3.37	5.36	2.74		~~436.5~~ 435.11	435.00
B 80+00	41.5' Rt.	DI-10			1			1		13.47	5.36	2.74		439.27 15	432.40
B 80+00	43.5' Lt.	DI-11			1			1		4.04	5.36	2.74		439.17 3	437.17
TN 10+81	21.11' Lt. 19.5' Lt.	DI-MH-12		1			1	1		0	0	8.17	~~440.99~~ 440.24	439.63 83	435.41
TN 10+81	19.5' Rt.	DI-13			1			1		0	0	2.74		439.63 86	437.77
B 88+28	43.11' Rt. 41.5' Rt.	DI-MH-14		1			1	1		23.58	12.50	8.17	440.69 23	440.12 05	432.12
B 88+28	41.43' Lt. 45.76' Lt.	DI-MH-15		1			1	1		36.25	12.50	8.17	440.51 11	439.94 06	433.32
B 88+70	90' Lt.	FI-17				1			1	7.39	5.36	2.74		437.0 55	435.60
B 93+80	40.42' Rt.	DI-18			1			1		0	0	2.74		445.23	438.80
B 93+80	6.9' Lt.	DI-19			1			1		0	0	2.74		447.15	439.60
TL 11+80	50' Lt.	FI-20				1			1	0	0	0		442.6	441.07
B 105+65	44.90 Rt. 43.23 Rt.	DI-MH-21		1			1	1		14.88	0	0	444.72	444.16	424.71
B 105+65	8.3' Lt.	DI-22			1			1		0	0	0		446.30	444.30
B 108+65	47.94' Rt.	MH-23	1				1			39.51	0	0	439.74		422.50
B 109+15	47.27 Rt. 45.60 Rt.	DI-MH-24		1			1	1		39.51	0	0	439.8 44	438.8 87	422.50
B 109+15	80' Rt.	FI-25				1			1	10.90	0	0		437.1 00	435.10
B 109+15	80' Lt.	FI-26				1			1	3.99	0	0		437.1 21	435.45
B 110+60	8.5' Lt.	DI-27			1			1		8.63	0	0		438.45 36	436.43
B 111+72.64	49.17' Rt. 47.5' Rt.	DI-MH-28		1			1	1		24.03	0	0	~~437.30~~ 436.36	436.73 4	426.16
B 111+75.23	43.5' Lt.	DI-29			1			1		6.38	0	0		437.H 6	430.96
B 112+00	70' Lt.	FI-30				1			1	8.65	0	0		436.96	432.54
TN 10+38.9	21.5' Rt.	DI-31			1			1		1.91	0	0		436.43 53	433.56
TN 10+38.9	21.5' Lt.	DI-32			1			1		0	0	0		436.43 6	434.22
TN 12+31.5	21.5' Rt.	DI-33			1			1		4.52	0	0		436.95 46	432.04
TN 12+31.5	21.5' Lt.	DI-34			1			1		1.50	0	0		436.35 56	433.80
B 113+02	45.11' Rt. 43.5 Rt.	DI-MH-35		1			1	1		25.14	0	0	437.54 21	436.97 56	426.29
B 113+19	43.5' Lt.	DI-36			1			1		4.61	0	0		~~437.08~~ 437.02	434.69
B 115+80	47.17' Rt.	MH-37	1				1			58.75	12.50	8.17	438.48 28		427.12
B 115+80	70' Rt.	FI-38				1			1	30.43	5.36	2.74		437.65 9	435.62
B 115+80	70' Lt.	FI-39				1			1	21.54	5.36	2.74		437.9 75	435.32
B 119+25	45.17' Rt.	MH-40	1				1			80.58	12.50	8.17	439.13 21		424.50
B 118+90	6.83 Lt. 8.5' Lt.	DI-MH-41		1			1	1		6.42	12.50	8.17	440.57 2	439.90 55	433.40
B 119+10	85' Lt.	FI-42				1			1	20.57	5.36	2.74		437.5 42	436.00
B 119+45	105' Rt.	FI-43				1			1	24.00	5.36	2.74		437.5 79	435.97
~~B 119+85~~	45.17' Rt.	MH-44	1				1			76.42	12.50	8.17	439.18 16		424.50
B 120+93	47.17' Rt.	MH-45	1				1			50.08	12.50	8.17	~~434.4~~ 434.70		428.16
B 120+93	51.37 Lt. 50' Lt.	DI-MH-46		1			1	1		59.08	12.50	8.17	~~442.75~~ 442.29	441.58 9	431.10
CR 218+95.55	33.11' Lt. 31.5 Lt.	DI-MH-47A		1			1	1		42.75	12.50	8.17	~~442.29~~ 442.03	441.72 1	432.57
CR 216+55	31.5' Lt.	DI-47B			1			1		2.82	5.36	2.74		440.66 4	437.14
CR 216+55	31.5' Rt.	DI-47C			1			1		0	4.75	2.74		440.66 4	438.10
CR 221+35	15.5' Lt.	DI-49			1			1		7.25	5.36	2.74		~~436.92~~ 436.91	432.98
CR 221+35	15.5' Rt.	DI-50			1			1		3.82	5.36	2.74		~~436.92~~ 436.80	433.62
B 125+00	8.5' Lt.	DI-51			1			1		18.79	5.36	2.74		440.05 3	437.71
B 125+00	49.17' Rt. 43.5 Rt.	DI-MH-52		1			1	1		58.50	12.50	2.74	~~438.40~~ 438.26	437.83 74	428.65
L 127+50	62' Rt.	FI-61				1			1	7.39	5.36	2.74		437.0 2	435.11
EO 19+22.29	17.5' Lt.	DI-67			1			1		0	5.00	2.74		436.43 90	434.30
EO 19+22.29	17.5' Rt.	DI-68			1			1		0	2.43	2.74		436.43 30	435.02
		Totals	5	12	26	12	17	38	12	867.65	230.08 47.73	169.28 47.73			

STATE	PROJECT DESIGNATION			SHEET NO.
ALASKA	AF-ALF-062-4(25)	1975	60	126

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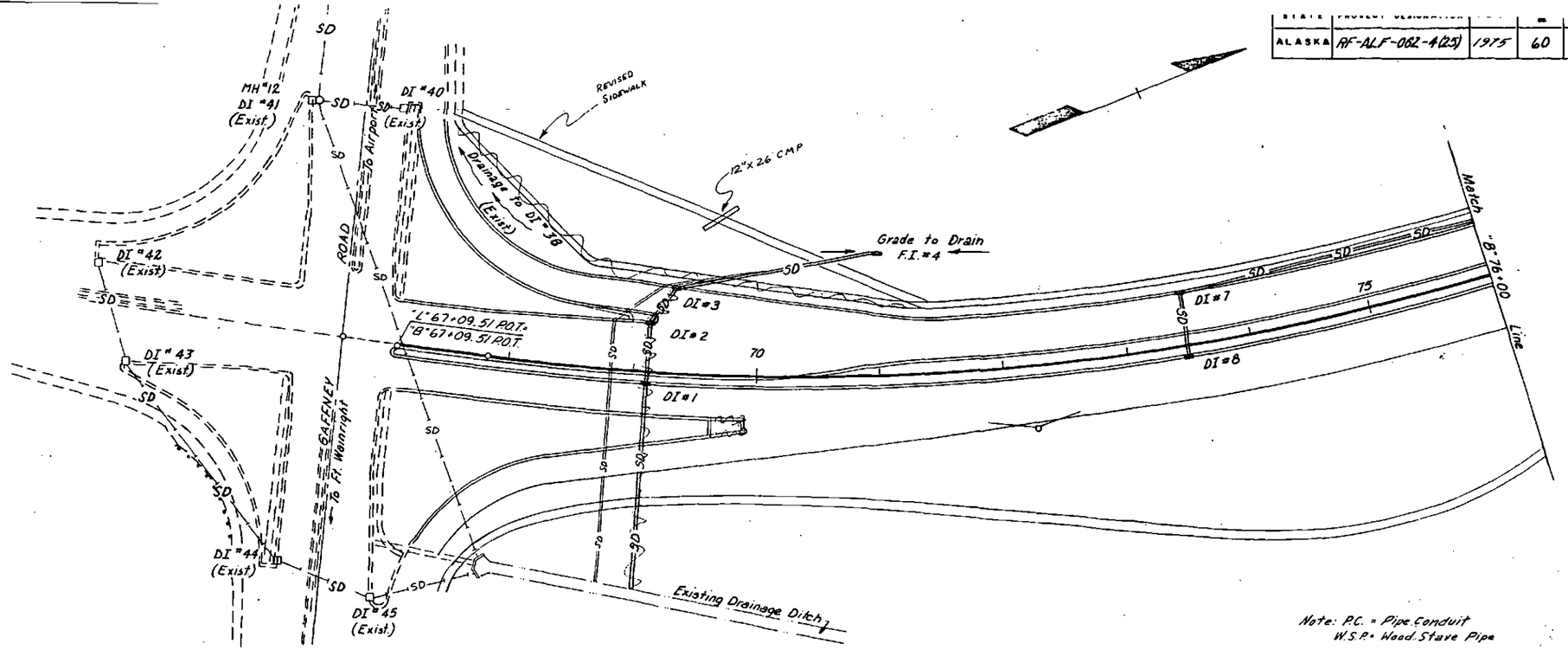
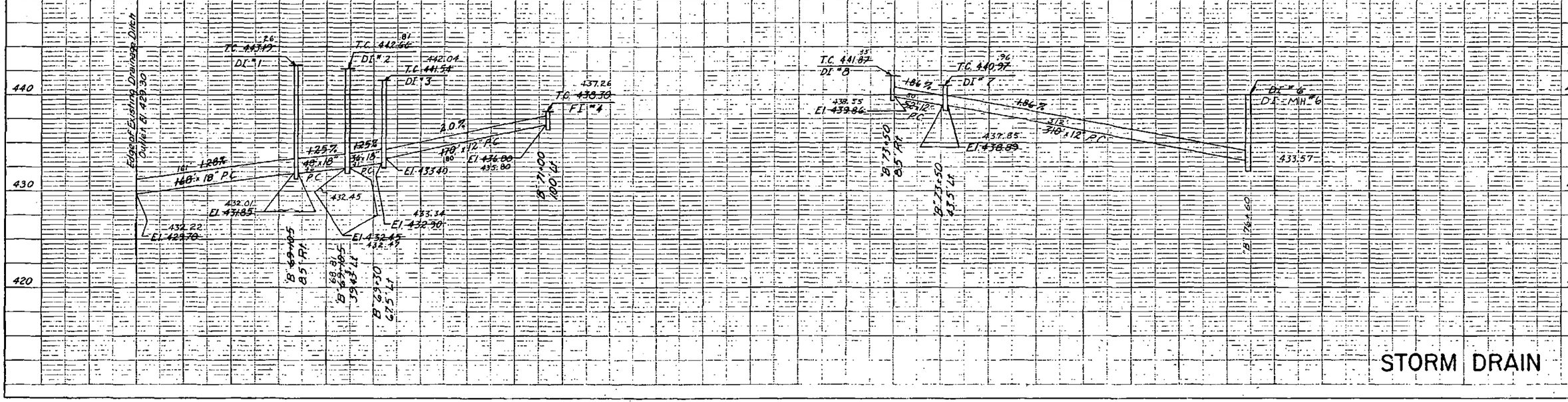
NOTE BOOK
No.

PROFILE
NOTE BOOK
No.





STORM DRAIN

ALASKA	RF-ALF-062-4(25)	1975	61	126

PLAN
NOTE BOOK
No.

PROFILE
NOTE BOOK
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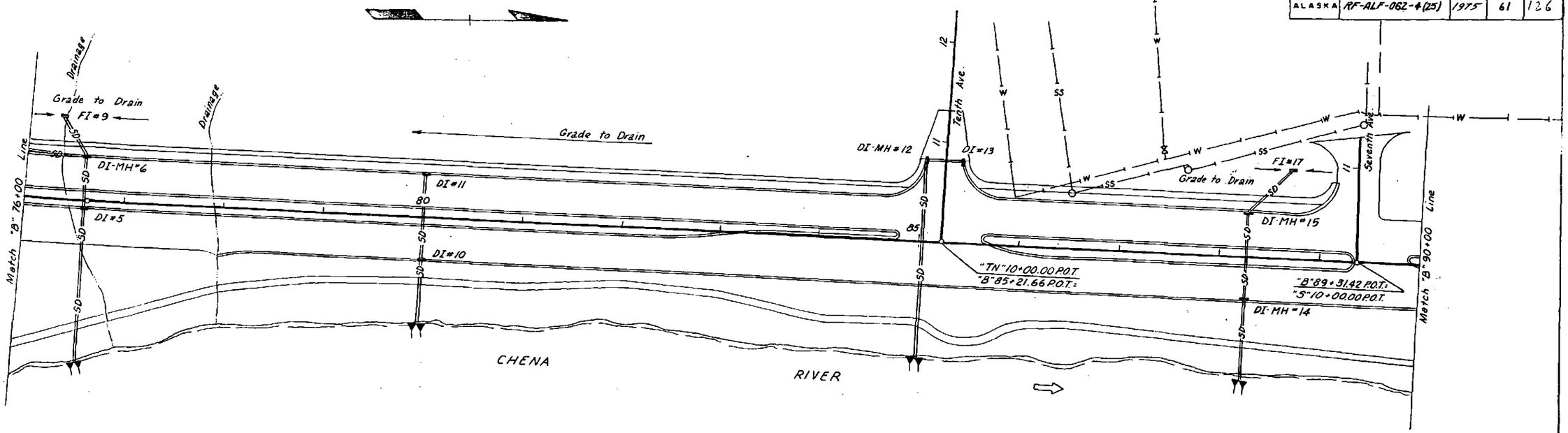

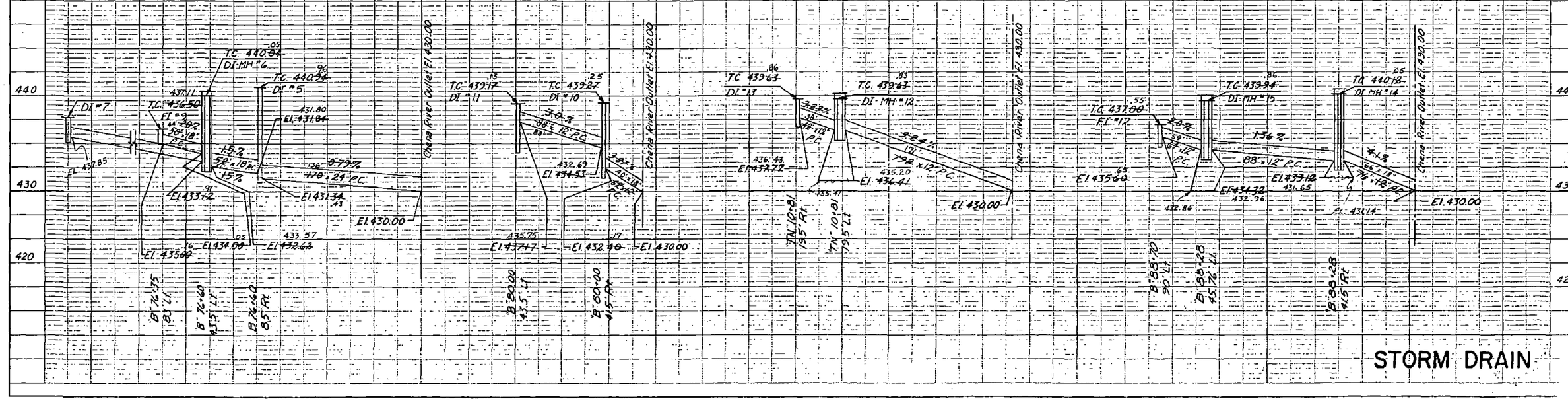

STATE	PROJECT DESIGNATION	YEAR
ALASKA	FF-ALF-062-4(25)	19

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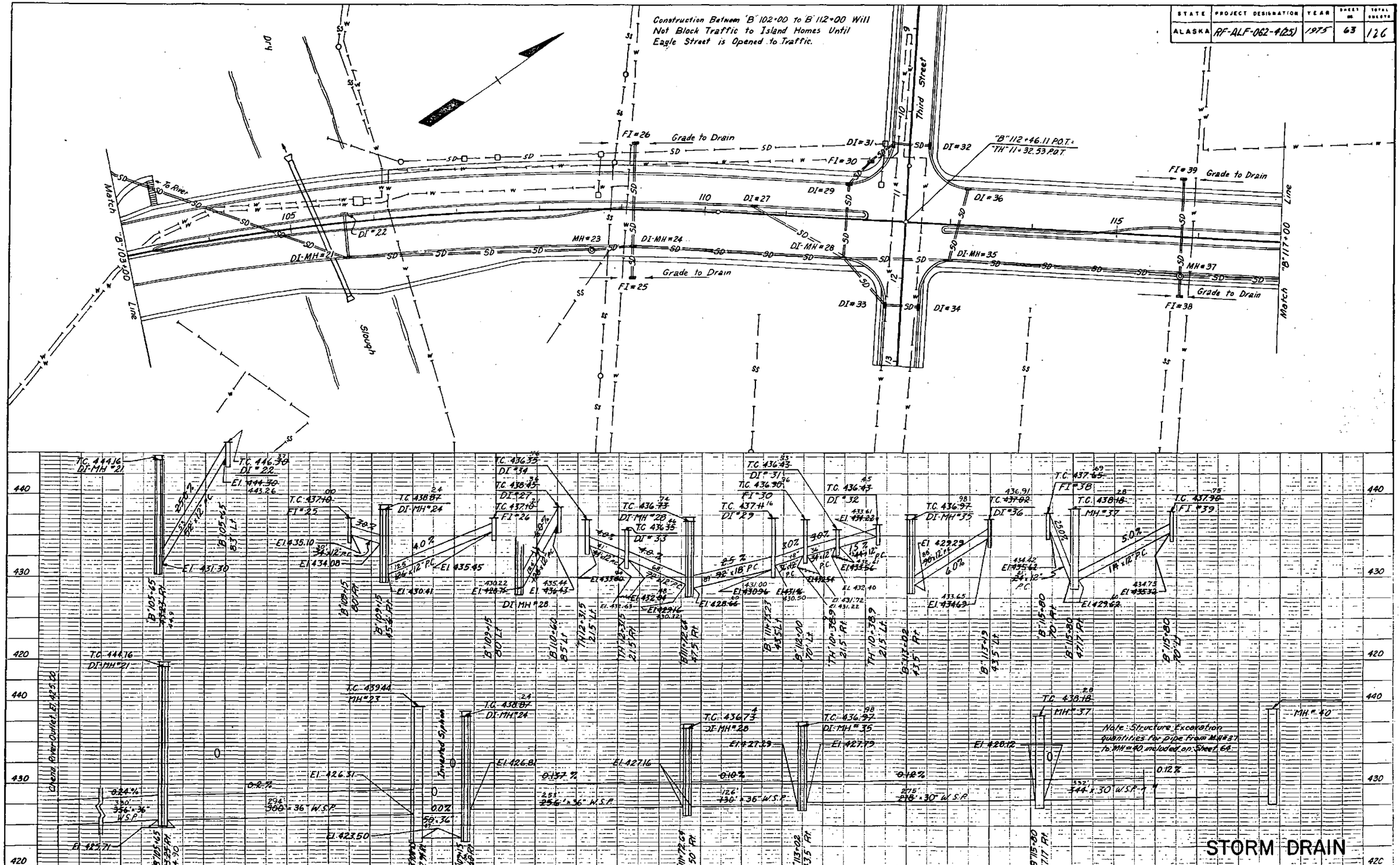
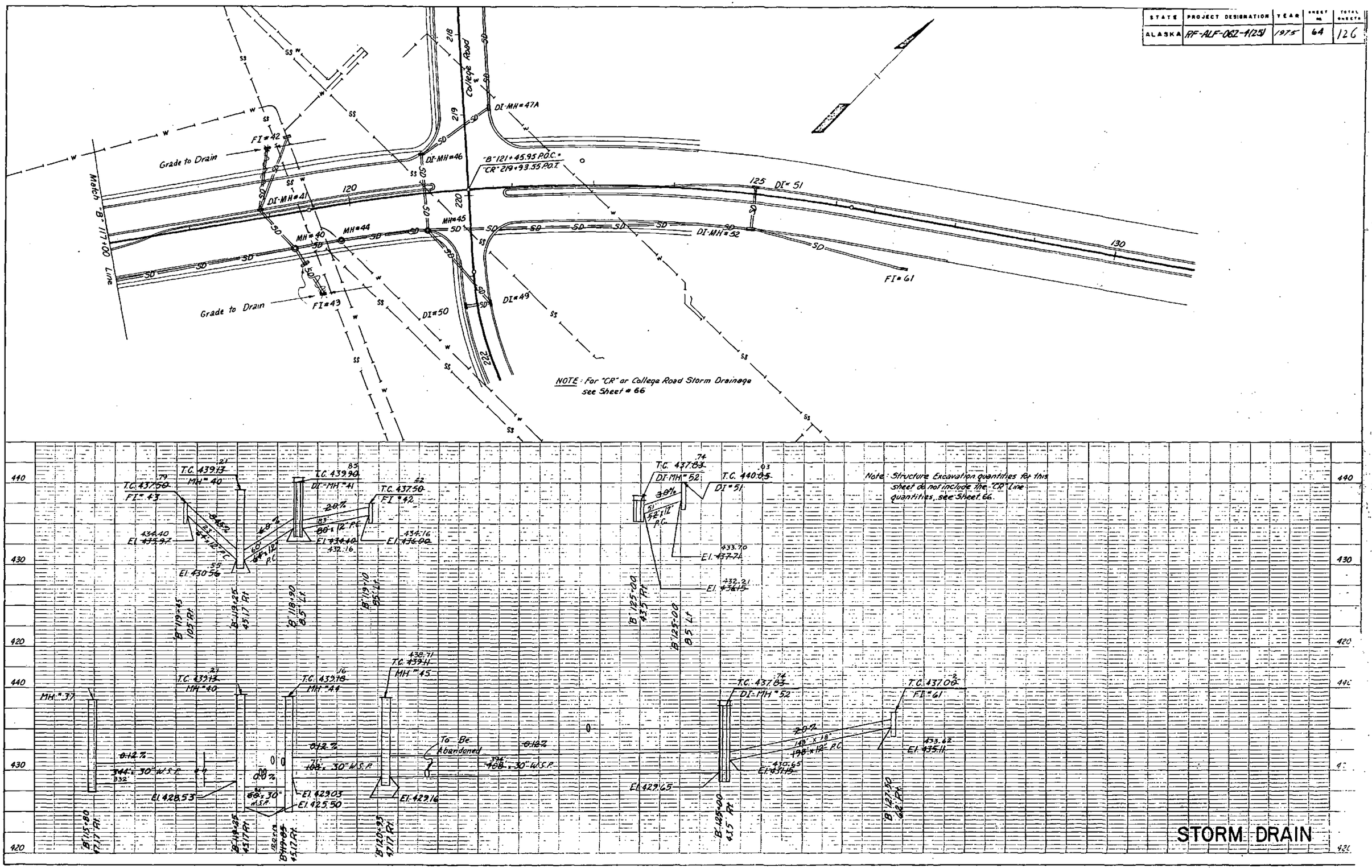
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	63	126



PLAN
NOTE BOOK No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BL. OF WAY CHECKED

PROFILE
NOTE BOOK No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & MOTED
STRUCTURE DIMENSIONS CHECKED

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	64	126

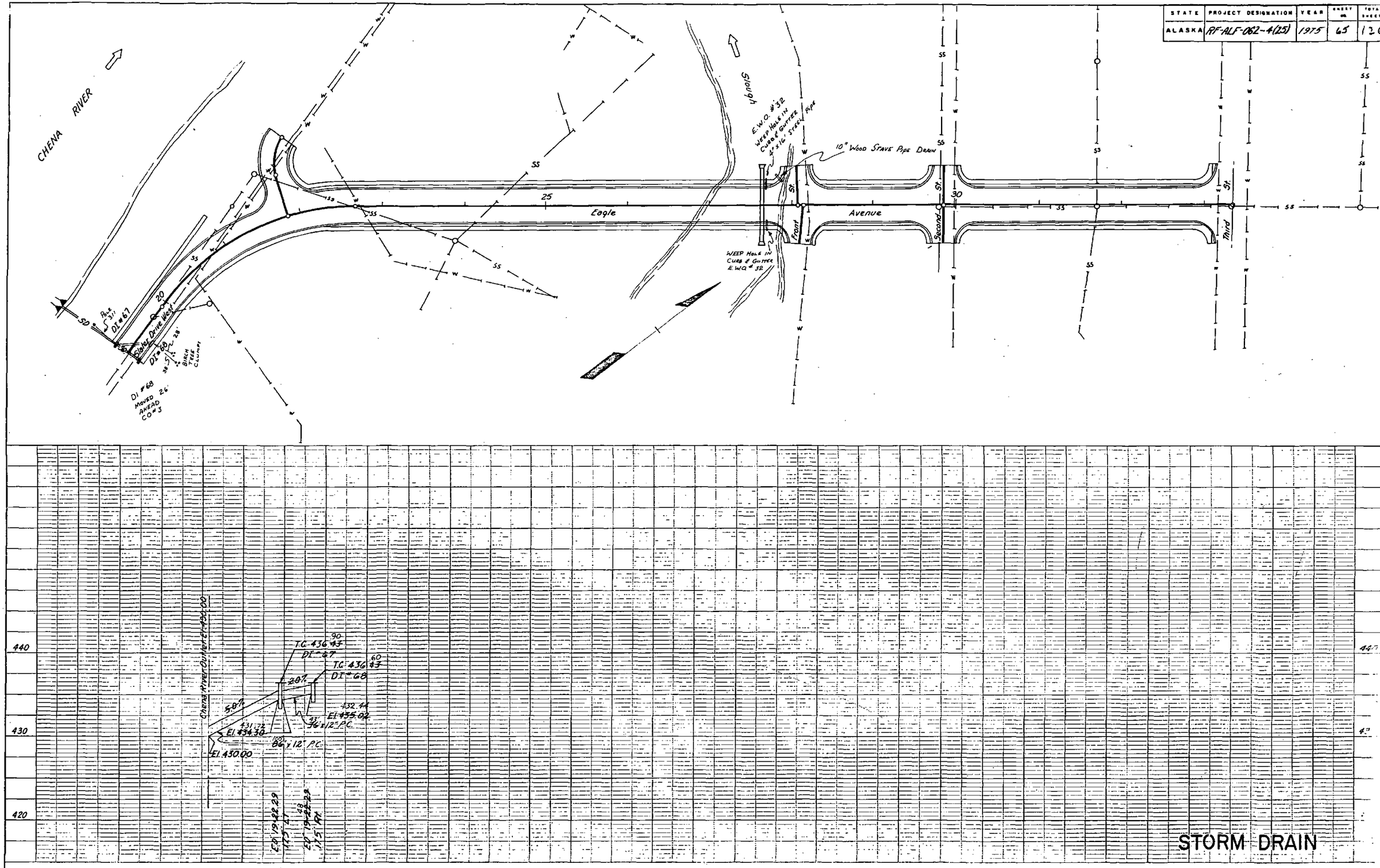


PLAN NOTE BOOK No.

PROFILE NOTE BOOK No.

135

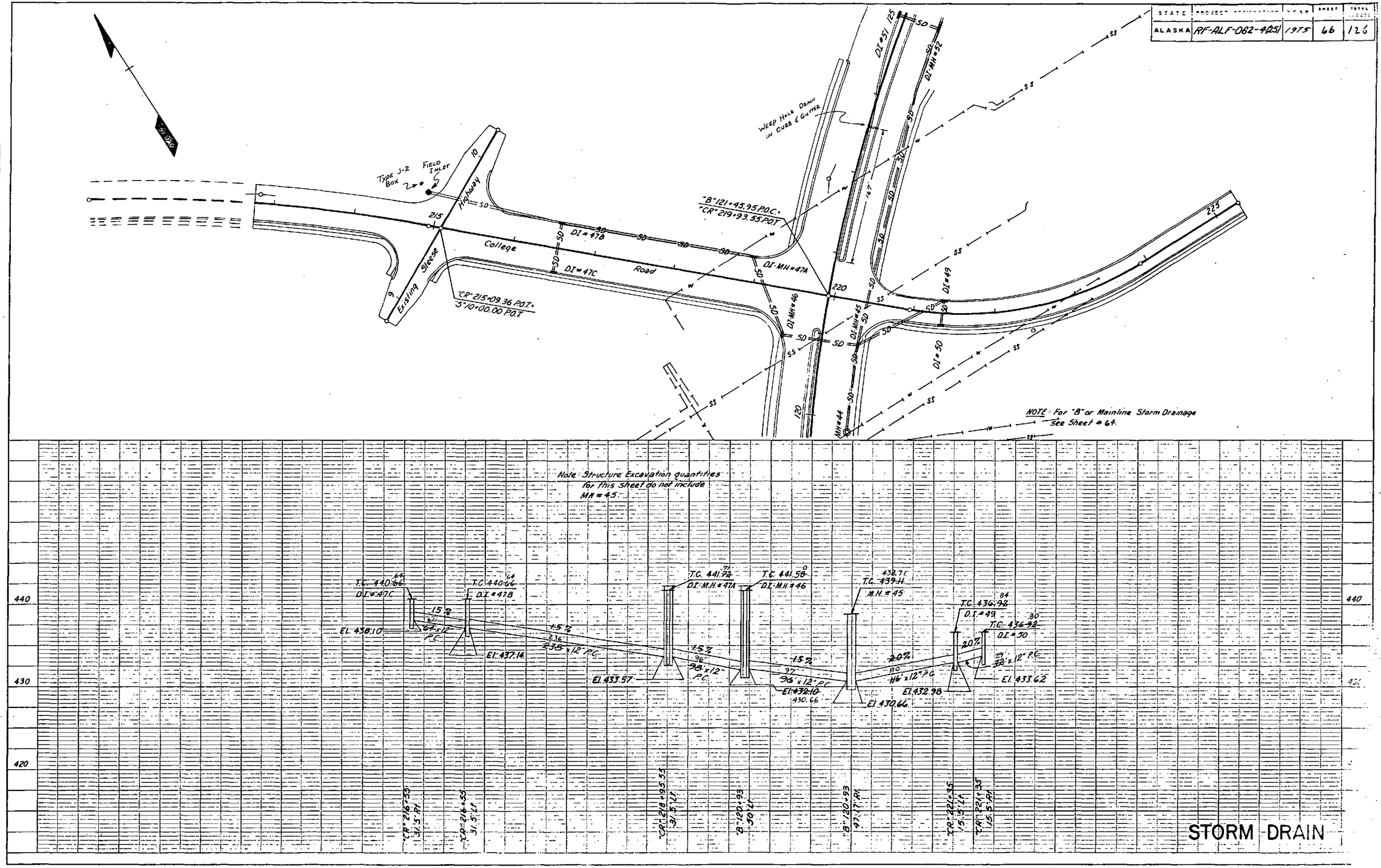
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	65	126



STORM DRAIN

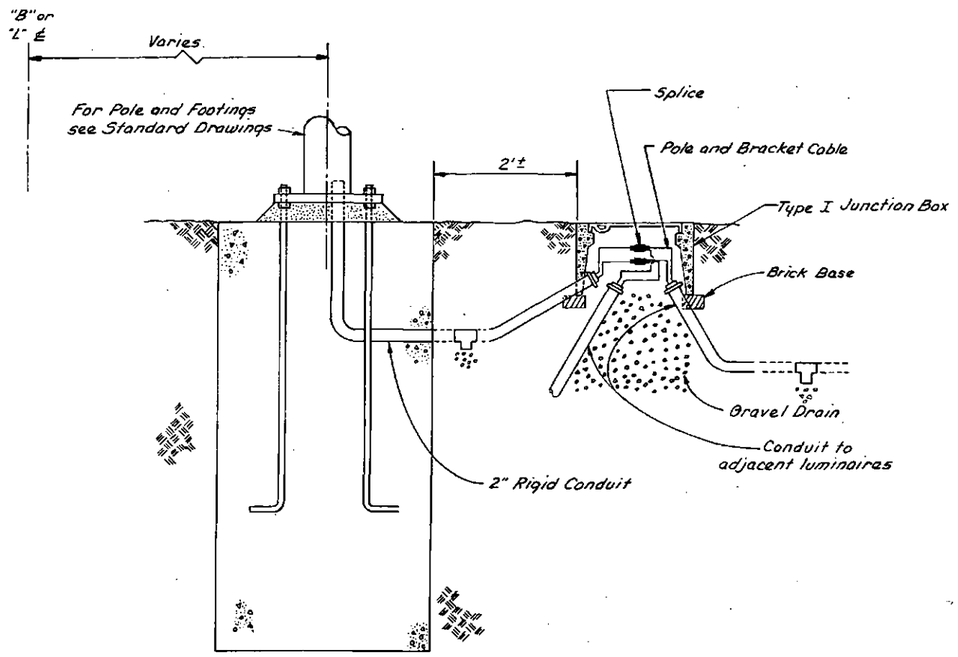
PLATE 1 PLAN PROFILE

STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	66	126

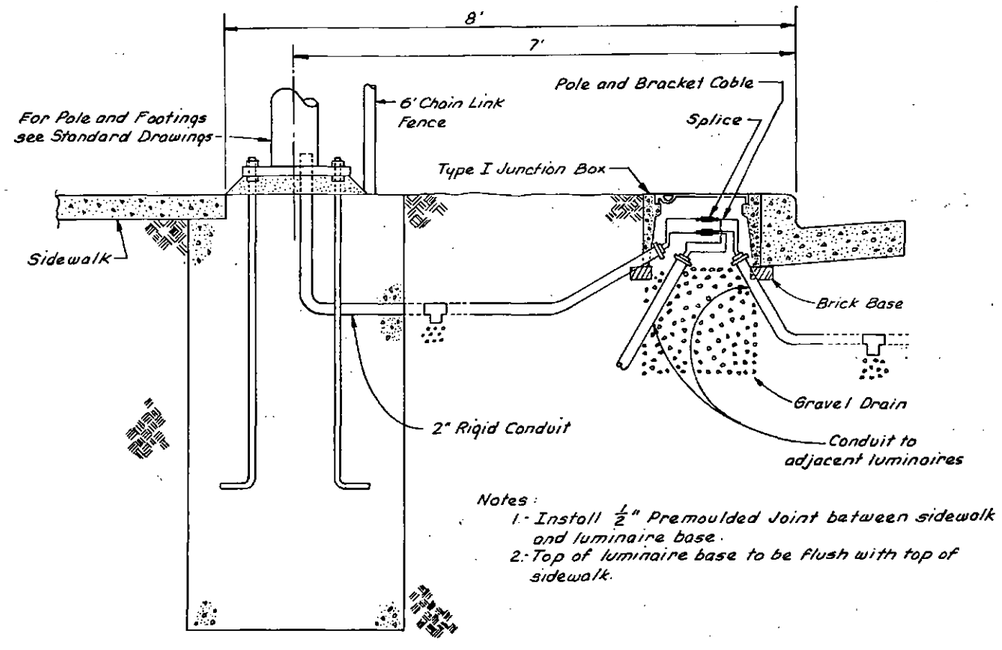


STORM DRAIN

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	AF-ALF-062-4(25)	1975	67	76



JUNCTION BOX LOCATION IN NON-CURB SECTION



Notes:
1.- Install ½" Premoulded Joint between sidewalk and luminaire base.
2.- Top of luminaire base to be flush with top of sidewalk.

JUNCTION BOX LOCATION IN CURB SECTION

SUMMARY OF ILLUMINATION

ITEM	UNIT	TOTAL
(1) Electrolier Units	Each	~~84~~ 82
Load Center	Each	5
Rigid Metal Conduit	Feet	4,025
Conduit	Feet	11,800
(3) Type I Junction Boxes	Each	100
Type II Junction Boxes	Each	4
(2) #8 AWG Illumination Wire	Feet	10,160
(2) #6 AWG Illumination Wire	Feet	6,750
Lump Sum All Req'd.		

(1) Includes foundation, pole, mast arm, luminaire, lamp, pole & bracket cable, & fusible disconnects; 17 of these units are joint use Signal Poles so that the foundation & poles will be paid for under Item 660(1) Traffic Signal System Complete. 3 of these units are luminaire only, i.e. luminaire, lamp, & glare shield. See general illumination note 16 for location.

(2) Lengths given are for pairs of conductors. Multiply by 2 for total quantity of single conductor required. Quantities listed are approximate.

(3) Additional junction boxes may be required, see Section 660-206 Junction Boxes in the Alaska State Highway Department Supplemental Specifications of 1975.

GENERAL ILLUMINATION NOTES

1. All junction boxes shall be Type I, unless noted otherwise.
2. Luminaires shall be high pressure sodium, 400 Watt, A.N.S.I Type III medium-semi cutoff minimum maintained lumens shall be 41,000 or better.
3. All luminaires shall be equipped with glare shields.
4. All conduits shall be 2" diameter unless otherwise noted.
5. Fusible disconnects to be located in luminaire standard handhole & shall be rated at 10 Amps at a minimum 600 Volts.
6. Nominal operating voltage for luminaires shall be 480 Volts, unless noted otherwise.
7. All load center contactors shall be rated 100 Amp minimum.
8. Tee and stone drains shall be provided at low points in all closed conduit runs.
9. In conduit runs where it is necessary to cross drainage culverts, it will be permissible to pass over the culvert.
10. All existing underground utilities shall be located before any conduit trenching or foundation work begins.
11. Luminaire foundations shall not project above the sidewalk or finished grade.
12. A ½ inch diameter piece of conduit shall be inserted in the grout between footing & the bottom of luminaire pole for a drain.
13. Junction boxes shall not project above the top of curb or finished grade.
14. Type I junction boxes shall be placed on a brick base above a stone drain 18" deep.
15. Illumination circuits R-1, R-2, & T-2, ℄ C-1 (E.W.O.# 15) shall be No. 6 A.W.G. copper wire. All other illumination circuits shall be No. 8 A.W.G. copper wire.
16. The Contractor shall furnish 3 ~ 400 Watt, A.N.S.I. Type III medium-semi cutoff high pressure sodium luminaire units consisting of luminaire, lamp, & glare shield for installation by others. The units will be installed by M.U.S. on their poles, located as follows:
    A) Third Street "TH" 10+50 on the Lt.
    B) Steese & College Road "S" 9+00 on the Rt. & "S" 10+80 on the Rt.
17. The luminaires for circuit V-1 & those covered in Note 16 will require 240 volt Ballasts.
18. See E.W.O. # 14 for changes in Standard Specifications

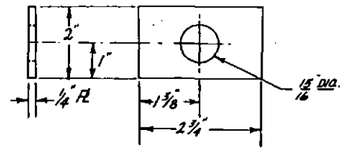


PLATE WASHER
9 Required/INSTALLATION

Plate washers replace the 9 common round washers required in the slip base installation detail in T-40.00.

ILLUMINATION DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF ALF-062-4 (25)	1975	67A	120

SUMMARY OF SIGNS

TYPE	SIZE	DESCRIPTION	AREA	SHEET NUMBER 69/70	71	72	73	74	75/76	77	78	79	80	81	82	83	84	68	TOTAL	TOTAL AREA
R1-1	36"x36"	STOP	9.00								2		2						4	36.00
R1-1	30"x30"	STOP	6.25			1										2	1		4	25.00
R1-1	24"x24"	STOP	4.00							1		1		5	1				8	32.00
R1-2	48"x48"	YIELD	6.90			1				1									2	13.80
R2-1	36"x48"	SPEED-50	12.00						1		1		1	1					4	48.00
R2-1	36"x48"	SPEED-45	12.00	1	1		2	1	3										8	96.00
R2-1	30"x36"	SPEED-50	7.50											1			1		2	15.00
R3-1	36"x36"	SYMBOL	9.00		1														1	9.00
XR3-1	24"x18"	NO RIGHT TURN	3.00		1														1	3.00
R3-2	36"x36"	SYMBOL	9.00		1														1	9.00
XR3-2	24"x18"	NO LEFT TURN	3.00		1														1	3.00
R3-4	36"x36"	SYMBOL	9.00			1													1	9.00
XR3-4	24"x18"	NO U TURN	3.00			1													1	3.00
R3-5L	30"x36"	SYMBOL	7.50				2												2	15.00
R3-6R	30"x36"	SYMBOL	7.50				2												2	15.00
R3-7L	48"x48"	Lt LANE MUST TURN Lt	16.00										1						1	16.00
R3-7R	48"x48"	Rt LANE MUST TURN Rt	16.00				2												2	32.00
R3-7R	36"x36"	Rt LANE MUST TURN Rt	9.00													2			2	18.00
R4-3	48"x60"	SLOW TRAFFIC KEEP RT.	20.00						1	1	1		1						4	80.00
R4-7A	36"x48"	KEEP RIGHT	12.00	1					1					1					3	36.00
R5-1	48"x48"	DO NOT ENTER	16.00			3								1					4	64.00
R5-1A	42"x30"	WRONG WAY	8.75											2					2	17.50
R5-1	36"x36"	DO NOT ENTER	9.00							1									1	9.00
R5-5	24"x30"	PEDESTRIANS & BICYCLES PROHIBITED	5.00	4	3	2	4	4	4	2									23	115.00
R6-1L	48"x16"	← ONE WAY	5.30	3	4	2	2	2	2	1	1		2						19	100.70
R6-1R	48"x16"	ONE WAY →	5.30	3	3	1	2	2	2	1	1		2						17	90.10
R7-1L	12"x18"	NO PARKING ←→	1.50													2			2	3.00
R7-1R																				
R8-4	30"x24"	EMERGENCY PARKING ONLY	5.00	1	1	1	2	2	1	1	1		1						11	55.00
R12-6	84"x66"	NO STUDDED TIRES MAY 1 TO SEP 15	38.50							1									1	38.50
R15-1	48"x48"	RAILROAD CROSSING	16.00						4										4	64.00
R5-1A	36"x24"	WRONG WAY	6.00							1									1	6.00
R1-2	36"x36"	YIELD	3.90	4															4	15.60
W1-2L	36"x36"	↖	9.00													1			1	9.00
W1-2R	36"x36"	↗	9.00													1			1	9.00
W1-6L																				
W3-1	36"x36"	STOP AHEAD	9.00								2					1		3	27.00
W3-3	48"x48"	SYMBOL	16.00						2									2	32.00
XW3-3	24"x18"	SIGNAL AHEAD	3.00						2									2	6.00
W4-1																				
XW4-1																				
W14-2	36"x36"	SYMBOL	9.00										2					2	18.00
W6-1	36"x36"	SYMBOL	9.00										1					1	9.00
XW6-1	24"x18"	DIVIDED HIGHWAY	3.00										1					1	3.00
W6-2	36"x36"	SYMBOL	9.00									2						2	18.00
XW6-2	24"x18"	DIVIDED HIGHWAY ENDS	3.00									2						2	6.00
W6-3	48"x48"	SYMBOL	16.00										1					1	16.00
XW6-3	24"x18"	2-WAY TRAFFIC	3.00										1					1	3.00
W9-1R	48"x48"	RIGHT LANE ENDS	16.00									2						2	32.00
W10-1	48" DIA	R.R.	12.61						4									4	50.44
W10-1	36" DIA	R.R.	7.11						2									2	14.22
W10-1L	24"x12"	←	2.00						1									1	2.00
W10-1R	24"x12"	→	2.00						1									1	2.00
W12-1	30"x30"	SYMBOL	6.25							1	1							2	12.50
W13-1	24"x24"	45 MPH	4.00												2			2	8.00
W13-2	36"x48"	EXIT 25 MPH	12.00	2														2	24.00
W14-1	24"x24"	DEAD END	4.00														17	17	68.00
W14-3	24"x24"	END	4.00														17	17	68.00
W9-2L	48"x48"	LANE ENDS MERGE LT.	16.00									1						1	16.00
T1-1	36"x24"	Chena River	6.00			2												2	12.00
SUB TOTAL				19	16	15	18	11	31	6	14	1	19	12	5	7	7	34	215	~~159.36~~

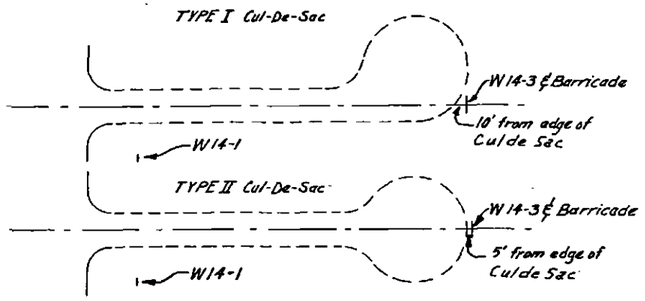
For Signing Changes
See Sheets 68 thru 84.

SUMMARY OF SIGNS (CONT'D)

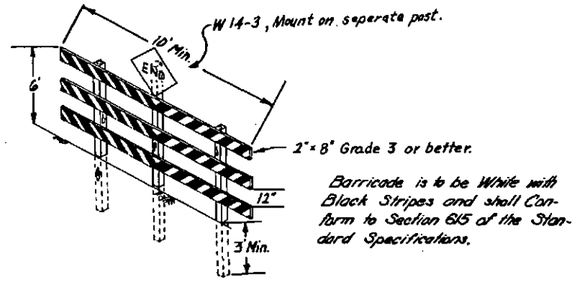
TYPE	SIZE	DESCRIPTION	AREA	SHEET NUMBER 69/70	71	72	73	74	75/76	77	78	79	80	81	82	83	84	68	TOTAL	TOTAL AREA
M1-1	30"x30"	ALASKA 2	6.25	2	2	1	1	2	2	1	1					1			13	81.25
M1-1	30"x30"	ALASKA 3	6.25	5	1														6	37.50
M1-1	24"x24"	ALASKA 2	4.00			1	2		2		1						1		7	28.00
M2-1	21"x15"	JCT	2.20	2															2	4.40
M3-1	30"x15"	NORTH	3.10	1	1	1		1	1		1								6	18.60
M3-3	30"x15"	SOUTH	3.10	5	1		1	1	1	1									10	31.00
M2-1	30"x15"	JCT	3.10		1														1	3.10
M4-6	30"x15"	END	3.10	1															1	3.10
M6-1R	21"x15"	→	2.20	1															1	2.20
M6-1L	21"x15"	←	2.20	1															1	2.20
M6-3	21"x15"	↑	2.20	3															3	6.60
M6-4	21"x15"	←→	2.20	2	1		2		2		1					1	1		10	22.00
D1-1	132"x24"	Univ of Alaska (Arrow)	22.00				1	1											2	44.00
D1-2	72"x24"	Fox (Arrows) City Ctr. (Arrows)	12.00							1		1				1			3	36.00
D1-2	144"x42"	Fairhill (Arrows) Farmers Loop (Arrows) Airport (Arrows)	42.00											1	1				2	84.00
D1-3	96"x48"	Delta Jct (Arrows) Fox (Arrows)	32.00	1															1	32.00
D1-3	126"x48"	Delta Jct (Arrows) 98 Ft Wainwright (Arrows) 4 Airport (Arrows) 4	42.00	2															2	84.00
D2-1	132"x24"	Univ of Alaska 4 Fox 8	22.00													1			1	22.00
D2-3	102"x48"	Livengood 76 Circle 156	34.00										1						1	34.00
D3-1	42"x8"	STEESE EXPWY	2.33										2						2	4.66
D3-1	54"x8"	OLD STEESE HWY	3.00										2						2	6.00
D3-1	30"x8"	EAGLE AVE	1.67													3			3	5.01
D3-1	42"x8"	W SLATER DR	2.33													1			1	2.33
D3-1	30"x8"	FRONT ST	1.67													1			1	1.67
D3-1	24"x8"	2ND ST	1.33													1			1	1.33
D3-1	24"x8"	5TH ST	1.33														1		1	1.33
D3-1B	114"x30"	Airport Rd	23.75	1															1	23.75
D3-1B	102"x30"	10th Ave.	21.25		2														2	42.50
D3-1B	96"x30"	3rd Ave	20.00			1													1	20.00
D3-1B	78"x30"	3rd St	16.25				2												2	32.50
D3-1B	108"x30"	College Rd	22.50					2											2	45.00
D3-2R/L	90"x18"	10th Ave (Arrow)	11.25		2														2	22.50
D3-2R/L	84"x18"	3rd Ave (Arrow)	10.50			2	1												3	31.50
D3-2R/L	96"x18"	3rd St (Arrows)	12.00				2												2	24.00
D3-1B	120"x30"	STEESE EXPWY	25.00		2		2	2	2										8	200.00
D3-2R/L	156"x18"	Trainor Gate Rd (Arrows)	19.50					2											2	39.00
D3-2R/L	132"x18"	Old Steese Hwy (Arrow)	16.50							1	1								2	33.00
D11-1	30"x24"	BIKE ROUTE	5.00	3			2	1											6	30.00
XD11-1	30"x8"	Plaque	1.67	3				1											4	6.68
D11-1	24"x18"	BIKE ROUTE	3.00			1										3			4	12.00
XD11-1	24"x6"	Plaque	1.00			1										2			3	3.00
SUB TOTAL				33	14	7	16	11	12	3	11	0	2	1	6	10	2	0	128	~~116.71~~
GRAND TOTAL				52	30	22	34	22	43	9	25	1	21	13	11	17	9	34	343	~~272.07~~ 2,394.91

ITEM NO. 629(1)	GUIDE MARKER EACH									2	16	22	42	14	26	36				158
ITEM NO. 629(2)	OBJECT MARKER EACH	3		2			1		1						1	1				9

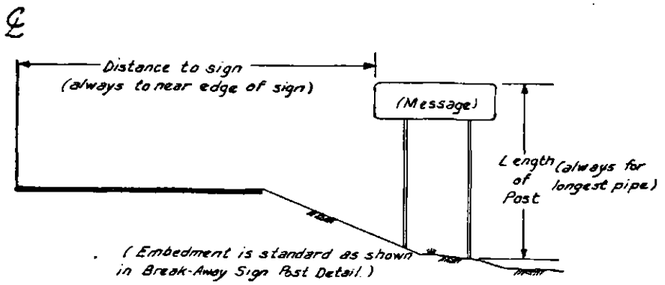
SIGN SUMMARY



TYPICAL DEAD END STREET SIGN AND BARRICADE PLACEMENT



Barricade is to be White with Black Stripes and shall Conform to Section 615 of the Standard Specifications.

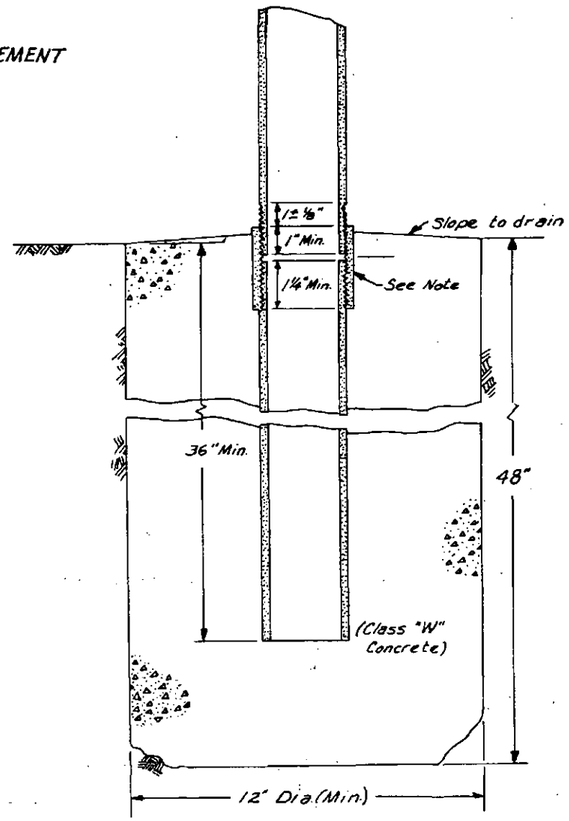


TYPICAL SIGN LOCATION FOR POST LENGTH
(See Standard Drawing S-00.10 & S-05.00 for post location on sign)

SUMMARY OF DEAD END STREET SIGNING					
Street Name	Approx. Sta.	Street Name	Approx. Sta.	Street Name	Approx. Sta.
Clay St.	96+00 Lt.	Fourth St.	116+00 Rt.	Hutter Rd.	134+00 Lt.
Front St.	106+00 Lt.	Timberland Dr.	119+00 Lt.	Hutter Rd.	135+00 Rt.
Front St.	106+00 Rt.	Timberland Dr.	120+00 Rt.	Blair Rd.	140+00 Rt.
Second St.	109+00 Lt.	Chase Dr.	124+00 Lt.	Farmers Loop Rd.	190+00 Lt.
Second St.	109+00 Rt.	Adak Ave.	125+00 Rt.	Commercial Dr.	191+00 Rt.
Fourth St.	116+00 Lt.	Beaver St.	130+00 Rt.		

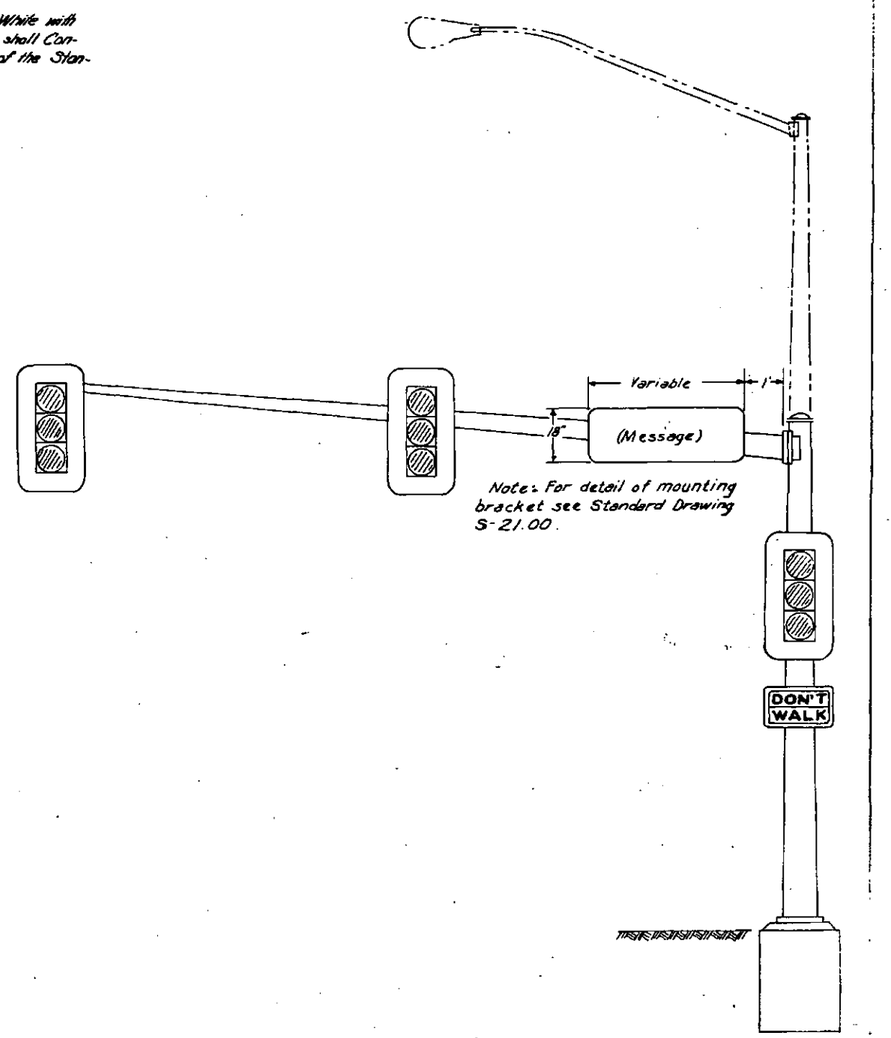
SIGNING									
No. Signs	Code No.	Legend	Sign Panel			Post			
			Size	Thickness	Area Ft²	Type	Size	Length	Embm't.
17	W14-1	DEAD END	24"x 24"	0.080"	4.00	Pipe	2"	7'	
17	W14-3	END	24"x 24"	0.080"	4.00	Wood	4"x 4"	10'	3'
34		Total			136.00				

Locate as directed by the Engineer on the dead end streets listed above.



BREAK-AWAY SIGN POST DETAIL

Note: Couplings shall be extra heavy nonrecessed taper threaded type; galvanized; and for nominal 2" size shall be no less than 2 ⅞ inches long, no less than 2 pounds each. Other nominal sizes shall be of the same type.



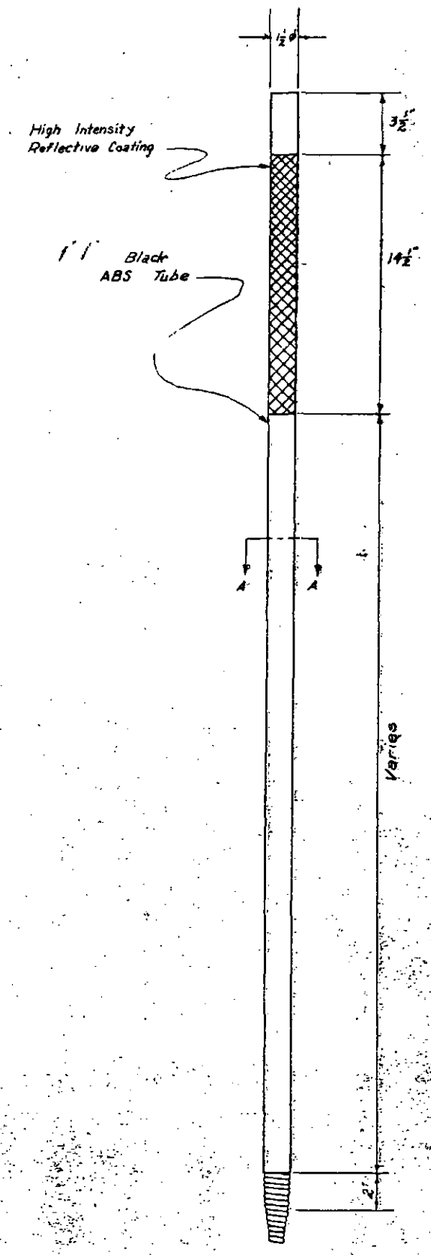
Note: For detail of mounting bracket see Standard Drawing S-21.00.

OVERHEAD SIGN MOUNTING DETAIL
FOR D3-1B SIGNS

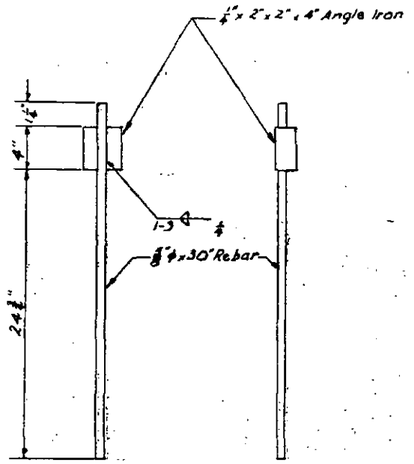
STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

SIGNING DETAILS

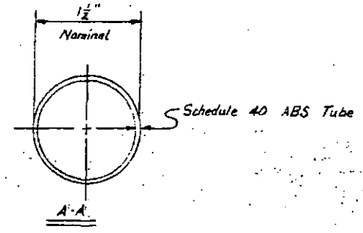
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BF ALF-062-4(25)	1975	68A	126

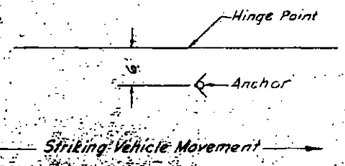


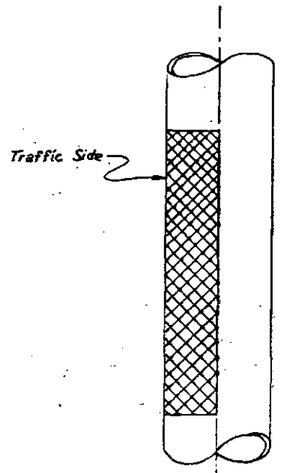
Flexible Guide Marker



Anchor



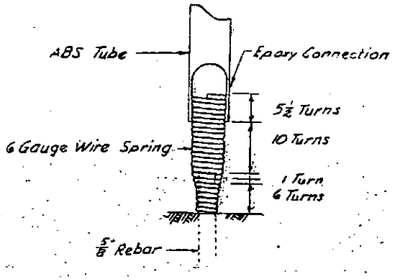




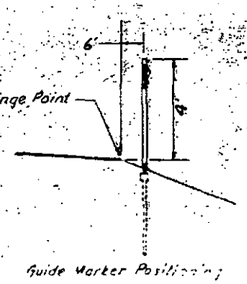
Position For Front Reflector Only

Guide Marker Reflector			
Type	Color	Front	Back
A	White	1	1
B	White	1	None
C	Yellow	1	None
D	Yellow	1	1

Flexible Guide Marker replaces the guide marker as shown on Standard Drawing T-03.00.



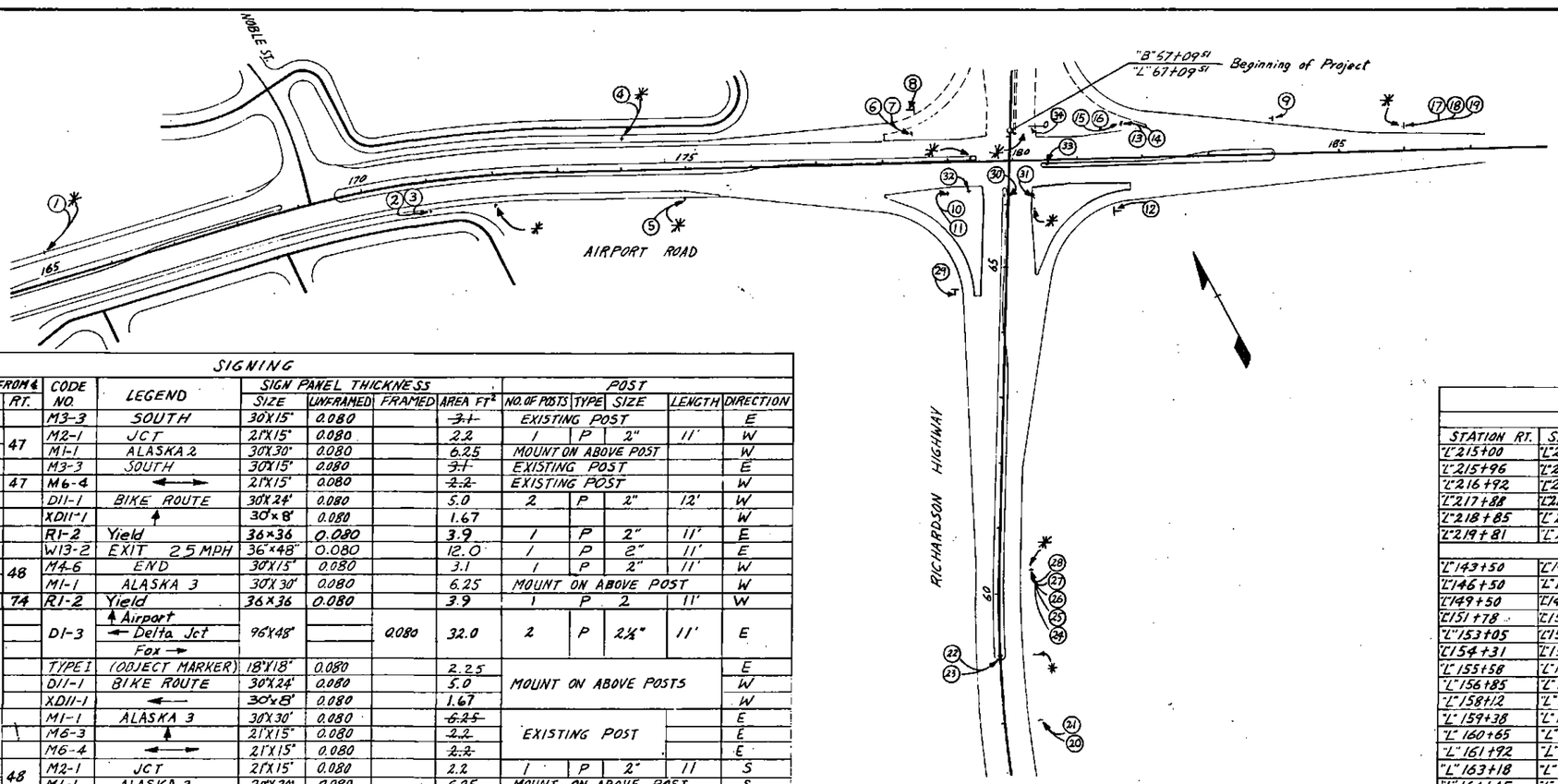
Spring Detail



Guide Marker Positioning

FLEXIBLE GUIDE MARKER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	69	126



SIGNING

SIGN NO.	STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT²	POST NO. OF POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"L" 165+00*	48		M3-3	SOUTH	30"X15"	0.080		~~3.1~~	EXISTING POST				E
2	"L" 171+00		47	M2-1	JCT	21"X15"	0.080		2.2	1	P	2"	11'	W
3				M1-1	ALASKA 2	30"X30"	0.080		6.25	MOUNT ON ABOVE POST				W
4	"L" 174+00*	47		M3-3	SOUTH	30"X15"	0.080		~~3.1~~	EXISTING POST				E
5	"L" 175+00*		47	M6-4	←→	21"X15"	0.080		~~2.2~~	EXISTING POST				W
6				D11-1	BIKE ROUTE	30"X24"	0.080		5.0	2	P	2"	12'	W
7				XD11-1	↑	30"x8"	0.080		1.67					W
8	"L" 178+50	74		R1-2	Yield	36"x36"	0.080		3.9	1	P	2"	11'	E
9	"L" 184+00	52		W13-2	EXIT 25 MPH	36"x48"	0.080		12.0	1	P	2"	11'	E
10	"L" 179+00		48	M4-6	END	30"X15"	0.080		3.1	1	P	2"	11'	W
11				M1-1	ALASKA 3	30"X30"	0.080		6.25	MOUNT ON ABOVE POST				W
12	"L" 181+70		74	R1-2	Yield	36"x36"	0.080		3.9	1	P	2	11'	W
13	"L" 181+70	55		D1-3	↑ Airport ← Delta Jct Fox →	96"x48"		2.080	32.0	2	P	2½"	11'	E
14				TYPE I	(OBJECT MARKER)	18"X18"	0.080		2.25	MOUNT ON ABOVE POSTS				E
15				D11-1	BIKE ROUTE	30"X24"	0.080		5.0					W
16				XD11-1	←	30"x8"	0.080		1.67					W
17				M1-1	ALASKA 3	30"X30"	0.080		~~6.25~~					E
18	"L" 186+00*	38		M6-3	↑	21"X15"	0.080		~~2.2~~	EXISTING POST				E
19				M6-4	←→	21"X15"	0.080		~~2.2~~					E
20	"L" 58+00		48	M2-1	JCT	21"X15"	0.080		2.2	1	P	2"	11	S
21				M1-1	ALASKA 3	30"X30"	0.080		6.25	MOUNT ON ABOVE POST				S
22	"L" 59+05		℄	R4-7A	KEEP RIGHT	36"X48"	0.080		12.0	1	P	2"	11	S
23				TYPE I	(OBJECT MARKER)	18"X18"	0.080		2.25	MOUNT ON ABOVE POST				S
24				M6-3	↑	21"X15"	0.080		~~2.2~~					S
25				M1-1	ALASKA 3	30"X30"	0.080		~~6.25~~					S
26	"L" 60+40*		48	M6-1L	←	21"X15"	0.080		~~2.2~~	EXISTING POST				S
27				M3-1	NORTH	30"X15"	0.080		~~3.1~~					S
28				M3-3	SOUTH	30"X15"	0.080		~~3.1~~					S
29	"L" 64+86	80		R1-2	Yield	36"x36"	0.080		3.9	1	P	2"	11	N
30	"L" 66+10	6		R6-1R	ONE WAY →	48"X16"	0.125		5.3	1	P	2"	8	E
31	"L" 66+10		50	R6-1L	← ONE WAY	48"X16"	0.125		5.3	1	P	2"	8	W
32	"L" 66+20	60		R6-1L	← ONE WAY	48"X16"	0.125		5.3	1	P	2"	8	N
33	"L" 66+65		60	R6-1R	ONE WAY →	48"X16"	0.125		5.3	1	P	2"	8	N
34	"L" 67+00		40	D3-1B	Airport Way	114"X30"	0.080		23.75	MOUNT ON SIGNAL ARM				N
					SIGN TOTAL				~~188.14~~ 156.87					

SIGN REMOVAL *

STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND
			M1-1	ALASKA 2
"L" 165+00	48		M5-1R	
			M6-3	↑
"L" 172+00		53	D1-3	(REMOVE GREEN PLATE ONLY)
"L" 174+00	47		M1-1	ALASKA 2
"L" 175+00		47	M5-1R	
"L" 179+31	6		R3-2	SYMBOL
			TYPE I	(OBJECT MARKER)
"L" 180+10	49		TYPE I	(OBJECT MARKER)
			W1-6L	←
"L" 186+00	43		M6-6L	↵
"L" 59+00		55	D1-3	(REMOVE GREEN TAPE ONLY)
"L" 60+40		48	M5-1L	
"L" 65+22		48	D1-3	(REMOVE GREEN TAPE ONLY)
"L" 65+90		40.5	R3-1	SYMBOL
			R3-1	NO RIGHT TURN

* NOTE: Indicates Location of Sign Removal or Change. Work to be Performed by Others.

*INSTALLED BY OTHERS

GUIDE MARKER SUMMARY

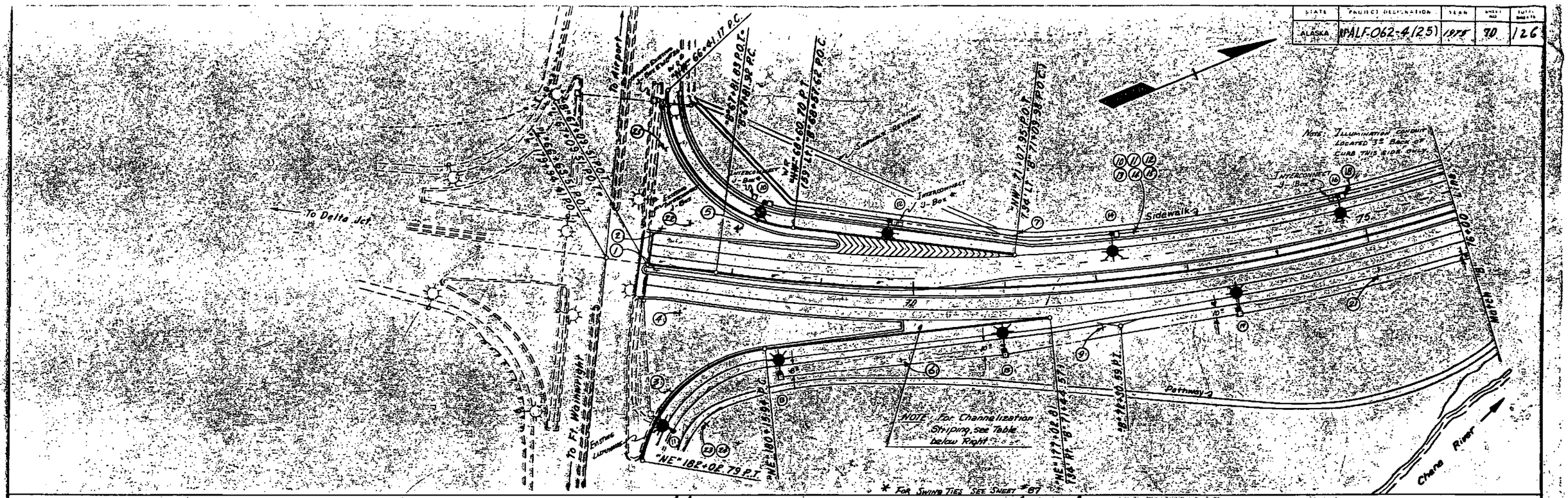
TYPE A					
STATION RT.	STATION LT.	STATION RT.	STATION LT.	STATION RT.	STATION LT.
"L" 215+00	"L" 215+00	"L" 220+77	"L" 220+77	"L" 226+54	"L" 226+54
"L" 215+96	"L" 215+96	"L" 221+73	"L" 221+73	"L" 227+50	"L" 227+50
"L" 216+92	"L" 216+92	"L" 222+69	"L" 222+69	"L" 229+50	"L" 229+50
"L" 217+88	"L" 217+88	"L" 223+65	"L" 223+65		
"L" 218+85	"L" 218+85	"L" 224+62	"L" 224+62		
"L" 219+81	"L" 219+81	"L" 225+58	"L" 225+58		
TYPE B					
"L" 143+50	"L" 143+50	"L" 168+25	"L" 168+25	"L" 199+74	"L" 199+74
"L" 146+50	"L" 146+50	"L" 169+52	"L" 169+52	"L" 201+18	"L" 201+18
"L" 149+50	"L" 149+50	"L" 170+79	"L" 170+79	"L" 202+61	"L" 202+61
"L" 151+78	"L" 151+78	"L" 172+70	"L" 172+10	"L" 204+05	"L" 204+05
"L" 153+05	"L" 153+05	"L" 174+00	"L" 173+40	"L" 205+48	"L" 205+48
"L" 154+31	"L" 154+31	"L" 175+69	"L" 174+55	"L" 206+92	"L" 206+92
"L" 155+58	"L" 155+58	"L" 178+31	"L" 175+70	"L" 208+36	"L" 208+36
"L" 156+85	"L" 156+85	"L" 180+93	"L" 180+93	"L" 210+90	"L" 213+10
"L" 158+12	"L" 158+12	"L" 183+55	"L" 183+55	"L" 213+46	"L" 213+70
"L" 159+38	"L" 159+38	"L" 186+17	"L" 186+17		
"L" 160+65	"L" 160+65	"L" 188+79	"L" 188+79		
"L" 161+92	"L" 161+92	"L" 191+41	"L" 191+41		
"L" 163+18	"L" 163+18	"L" 194+00	"L" 194+00		
"L" 164+45	"L" 164+45	"L" 195+43	"L" 195+43		
"L" 165+72	"L" 165+72	"L" 196+87	"L" 196+87		
"L" 166+99	"L" 166+99	"L" 198+30	"L" 198+30		
TYPE C					
	"SE" 2+17	"SC" 5+79		"L" 205+00	
	"SE" 4+10	"SC" 6+52		"L" 206+00	
	"SE" 6+03	"SC" 7+25	"SC" 7+70	"L" 207+00	
	"SE" 7+19	"SC" 7+98	"SC" 8+27	"L" 208+00	
"SE" 7+68	"SE" 7+83	"SC" 8+70	"SC" 8+83	"L" 209+00	
"SE" 8+35	"SE" 8+48		"SC" 9+40	"L" 210+00	
"SE" 9+02	"SE" 9+12			"L" 211+00	
"SE" 9+69	"SE" 9+77			"L" 212+00	
"SE" 10+37	"SE" 10+41			"L" 213+00	"L" 213+00
"SE" 11+04	"SE" 11+05			"L" 215+00	"L" 215+00
	"SE" 11+70			"L" 216+00	"L" 216+00
	"SE" 12+34			"L" 217+00	"L" 217+00
	"L" 178+08				
	"L" 179+10				
	"L" 180+12				

GENERAL SIGNING NOTES

1.- All signs shall conform to the Alaska Sign Design Specifications, revised August, 1974 & the Alaska Traffic Manual, revised July, 1974.
2.- LOCATE UNDERGROUND UTILITIES BEFORE EXCAVATING.
3.- Method of measurement for quantities of trapezoidal, octagonal & triangular shaped signs shall be based on the actual surface area.
4.- Embedment for breakaway posts shall be standard, as shown on Sheet 68.
5.- Post lengths for estimating purposes are calculated to the outside post, if multiple posts are used. (See Detail on Sheet 67.)
6.- Sign locations shall conform to Standard Drawing 9-05.00 unless otherwise noted.
7.- Sign locations are approximate & subject to adjustment by the Engineer.
8.- Distances from centerline are to the near edge of sign. (See Detail on Sheet 68.)
9.- All "D" type sign lettering shall be 8" U.C., 6" L.C., Series E, except D3-1 shall be 4" U.C., 3" U.C., Series D, & D3-1B shall be 10.7" U.C., 8" L.C., Series E.
10.- All D3-1 signs are required to have legends on both sides & shall be mounted such that both legends are not obstructed.
11.- All Regulatory signs, except the R7-1 shall use high intensity reflective sheeting. Lettering & edge lines of all "D" signs shall use high intensity reflective sheeting.

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	APALF-062-4(25)	1978	90	126



SIGNING

SIGN NO.	STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"B" 67+20		6	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	9'	W
2	"B" 67+20	40		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	9'	E
3	"B" 67+50		135	R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	1	P	2"	10'	S
4	"B" 68+00		45	R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	1	P	2"	10'	S
5	"B" 68+00	50		D1-13	↰ Delta Jct. 98 ← Ft. Wainwright Airport 4 →	126"x48"		0.080	42.0	2	P	9"	11'	N
6	"B" 70+00		95	R2-1	Yield	36"x36"	0.080		3.9	1	P	2"	11'	S
7	"NW" 71+07	18		W13-2	EXIT 25 MPH	36"x48"	0.080		12.0	1	P	2"	11'	W
9	"B" 72+00		50	R8-4	EMER. PARKING ONLY	30"x24"	0.080		5.0	1	P	2"	9'	S
10				M3-3	SOUTH	30"x15"	0.080		3.1					N
11				M1-1	ALASKA 2	30"x30"	0.080		6.25					N
12	"B" 72+50	50		M6-3	↰	21"x15"	0.080		2.2	1	P	2½"	10'	N
13				M3-3	SOUTH	30"x15"	0.080		3.1					N
14				M1-1	ALASKA 3	30"x30"	0.080		6.25					N
15				M6-1R	→	21"x15"	0.080		2.2					N
18	"B" 74+87	50		D1-3	↰ Delta ← Ft. Wainwright Airport →	126"x48"		0.080	42.0	2	P	9"	11'	N
21	"B" 75+00		46	R2-1	SPEED LIMIT 45	36"x48"	0.080		12.0	1	P	2"	11'	S
22	"B" 67+50	50		R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	1	P	2"	10'	S
23	"NE" 181+15	45		XD11-1	BEGIN	30"x8"	0.080		1.67	1	P	2"	8'	E
24	"NE" 181+15			D11-1	BIKE ROUTE	30"x24"	0.080		5.0	Mount on Post Above				E
25	"NW" 67+00		12	R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	1	P	2"	10'	S
					SIGN TOTAL				177.27 37					

ILLUMINATION

STATION	LOCATION LT.	LOCATION RT.	TYPE BASE	MAST ARM LENGTH	LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"NW" 68+20	21'		Flange	12'	400Watt	R-1	40'
"NW" 69+65	21'		Flange	15	400Watt	R-1	40'
"NE" 180+00	27'		Flange	12	400Watt	R-2	40'
"NE" 177+55	27'		Shear	15	400Watt	R-2	40'
"B" 72+21	51'		Flange	15	400Watt	R-1	40'
"B" 73+43		49'	Shear	15	400Watt	R-2	40'
"B" 74+77	51'		Flange	15	400Watt	R-1	40'

(M) NOTE: Pole Numbers Established in Field for Signal & Illumination. Pole #'s Listed in Blue & Red.

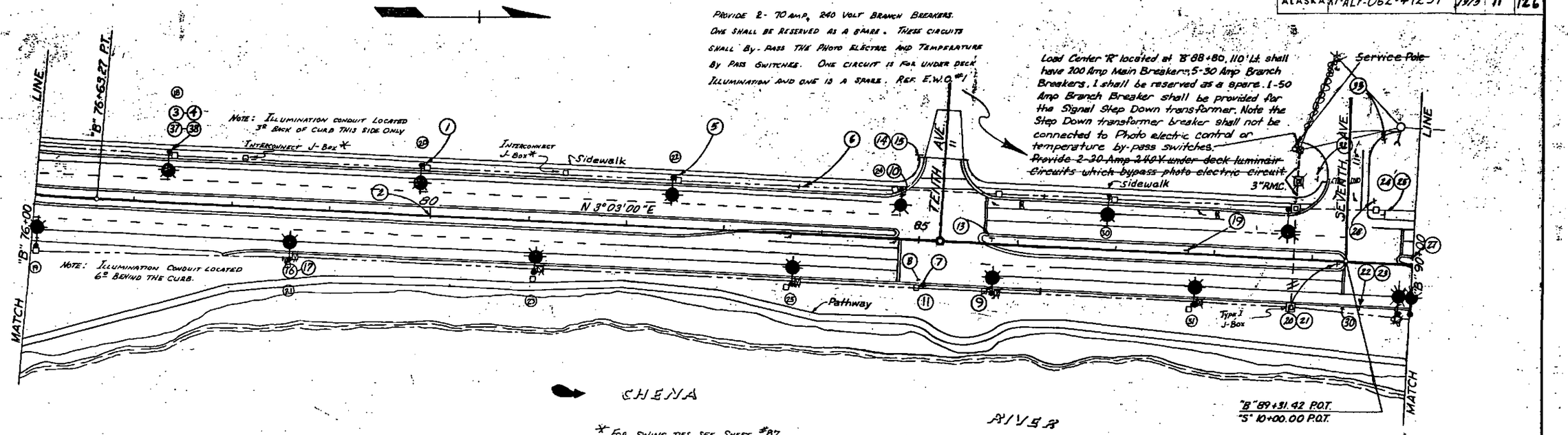
Contractors' Data Included in As-Builts

STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
CROSSWALK		"B" 67+05	See Std. T-20.00; ATM 1-38-19-6b				
EDGE LINE	24' Lt.	"B" 67+12	"B" 69+18	White	4"	Solid	206
CHANNELIZATION	Lt.	"B" 69+18	"B" 71+10	White	See Std. T-20.00		192
LANE LINE	22' Lt.	"B" 70+12	"B" 76+00	White	4"	Broken 9'-3'	588
AUX LANE LINE	10' Lt.	"B" 67+12	"B" 70+00	White	8"	Solid	288
↑	Lt.	"B" 67+12	↓	White	See Std. T-21.00		
↑	Lt.	↓		White	See Std. T-21.00		
↑	Lt.		"B" 70+00	White	See Std. T-21.00		
EDGE LINE	24' Lt.	"B" 71+10	"B" 76+00	White	4"	Solid	490
EDGE LINE	10' Lt. Marina	"B" 67+10	"B" 76+00	White	4"	Solid	890
EDGE LINE	10' Rt.	"B" 67+12	"B" 76+00	White	4"	Solid	888
LANE LINE	22' Rt.	"B" 67+12	"B" 76+00	White	4"	Broken 9'-3'	888
EDGE LINE	24' Rt.	"B" 67+12	"B" 69+90	White	4"	Solid	278
CHANNELIZATION	Rt.	"B" 69+90	"B" 71+85	White	See ATM 1-38-11.2b		
EDGE LINE	℄	"NE" 182+09	"NE" 178+60	White	4"	Solid	343
EDGE LINE	12' Rt. Marina	"NE" 182+09	"B" 76+00	White	4"	Solid	955
EDGE LINE	℄	"NW" 66+41	"NW" 69+20	White	4"	Solid	279
EDGE LINE	12' Lt.	"NW" 66+41	"NW" 71+08	White	4"	Solid	467
MEDIAN NOSE	Rt.	"B" 67+09		Yellow	See ATM 1-3A-09-1a		
MEDIAN NOSE	Lt.	"B" 69+18		Yellow	See ATM 1-3A-09-1a		
MEDIAN NOSE	Lt.	"NE" 182+09		Yellow	See ATM 1-3A-09-1a		
LANE LINE	22' Lt.	"B" 67+12	"B" 70+12	White	4"	Solid	300

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	71	126



* FOR SWING TIES SEE SHEET #87

SIGNING

SIGN NO.		DIST FROM ℄ Lt.	DIST FROM ℄ Rt.	CODE NO.		SIGN SIZE	PANEL UNFRAMED	PANEL FRAMED	THICKNESS AREA Ft²	POST NO. of POSTS	POST TYPE	POST SIZE	POST LENGTH	DIRECTION
1	"B" 79+89	51		R1-1	SPEED LIMIT 45	36"x48"	0.080		12.0	MOUNT ON LIGHT POLE				N
2	"B" 80+00		E	D3-2L	← 10th Ave	90"x18"		0.080	11.25	2	P	2"	10	S
3	"B" 81+00	50		M3-3	SOUTH	30"x15"	0.080		3.1	MOUNT ON LIGHT POLE				N
4	"B" 81+00	50		M1-1	ALASKA 2	30"x30"	0.080		6.25	MOUNT ON Light POLE				N
5	"B" 82+45	51		R8-4	EMERGENCY PKG ONLY	30"x24"	0.080		5.0	MOUNT ON LIGHT POLE				N
6	"B" 83+73	50		R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	1	P	2"	9	N
7	"B" 85+00		46	R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	MOUNT ON LIGHT POLE				N
8	"B" 85+00		46	R6-1L	← ONE WAY	48"x16"	0.125		5.3		P			W
9				D3-1B	10th Ave	102"x30"		0.080	21.25	MOUNT ON SIGNAL ARM				S
10				D3-1B	10th Ave	102"x30"		0.080	21.25	MOUNT ON SIGNAL ARM				N
11				D3-1B	STEESE EXPY	120"x30		0.080	25.0	MOUNT ON SIGNAL ARM				W
12														
13			4	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	8	W
14	"B" 84+95	80'		M1-1	ALASKA 2	24"x24"	0.080		4.0	1	P	2"	9	W
15	"B" 84+95	80'		M6-4	↔	21"x15"	0.080		2.2	MOUNT ON ABOVE POLE				W
16	"B" 78+61	47.5		M3-1	NORTH	30"x15"	0.080		3.1	MOUNT ON LIGHT POLE				S
17	"B" 78+61	47.5		M1-1	ALASKA 2	30"x30	0.080		6.25	MOUNT ON LIGHT POLE				S
19	"B" 87+50		E	D3-2R	10th Ave →	90"x18"		0.080	11.25	2	P	2"	8	N
20	"B" 89+25		4	M3-2	SYMBOL	36"x36"	0.080		9.0	1	P	2"	11	S
21	"B" 89+25		4	XR3-2	NO LEFT TURN	24"x18"	0.080		3.0	MOUNT ON ABOVE POLE				S
22	"B" 89+45		46	R6-1L	← ONE WAY	48"x16"	0.080		5.3	1	P	2"	11	W
23	"B" 89+45		46	R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	MOUNT ON ABOVE POLE				
24	"B" 89+70	50		M3-1	SYMBOL	36"x36"	0.080		9.0	1	P	2"	11	N
25	"B" 89+70	50		XR3-1	NO RIGHT TURN	24"x18"	0.080		3.0	MOUNT ON ABOVE POLE				N
														E
27	"B" 90+00	4		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	8	W
28	"S" 10+60	30		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	10	S
30				D3-1B	STEESE EXPWY	120"x30	0.100		25.0	MOUNT ON SIGNAL ARM				W
32	"S" 10+75	30		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	8	N
33	"S" 11+25		35	R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	8	W
	"S" 11+28		℄	W14-3	END	30"x30"			6.25	E.W.O. #29				
	"S" 11+28		℄		TYPE IV OBJECT MARKERS	18"x18"			2.25	E.W.O. #29				
37	"B" 81+00	50		M2-1	Jct	30x15	0.080		3.1	MOUNT ON LIGHT POLE				N
38	"B" 81+00	50		M1-1	ALASKA 3	30x30	0.080		6.25	MOUNT ON LIGHT POLE				N
					SIGN TOTAL				~~242.35~~ 251.14					

ILLUMINATION

STATION	LOCATION Lt.	LOCATION Rt.	TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"B" 76+05		49'	Shear	15'	400 Watt	R-2	40'
"B" 77+35	51'		Flange	15'	400 Watt	R-1	40'
"B" 78+61		47.5'	Flange	15'	400 Watt	R-2	40'
"B" 79+89	51'		Flange	15'	400 Watt	R-1	40'
"B" 81+08		47.5'	Flange	15'	400 Watt	R-2	40'
"B" 82+45	51'		Flange	15'	400 Watt	R-1	40'
"B" 83+73		47.5'	Flange	15'	400 Watt	R-2	40'
①"B" 84+80	49'		Signal	15'	400 Watt	R-1	40'
①"B" 85+78		47.5'	Signal	15'	400 Watt	R-2	40'
"B" 86+91	55'		Flange	15'	400 Watt	R-1	40'
"B" 87+82		47.5'	Flange	15'	400 Watt	R-2	40'
①"B" 88+74	49'		Signal	15'	400 Watt	R-1	40'
①"B" 89+87		47'	Signal	15'	400 Watt	R-3	40'

① Mounted on Signal Standard.

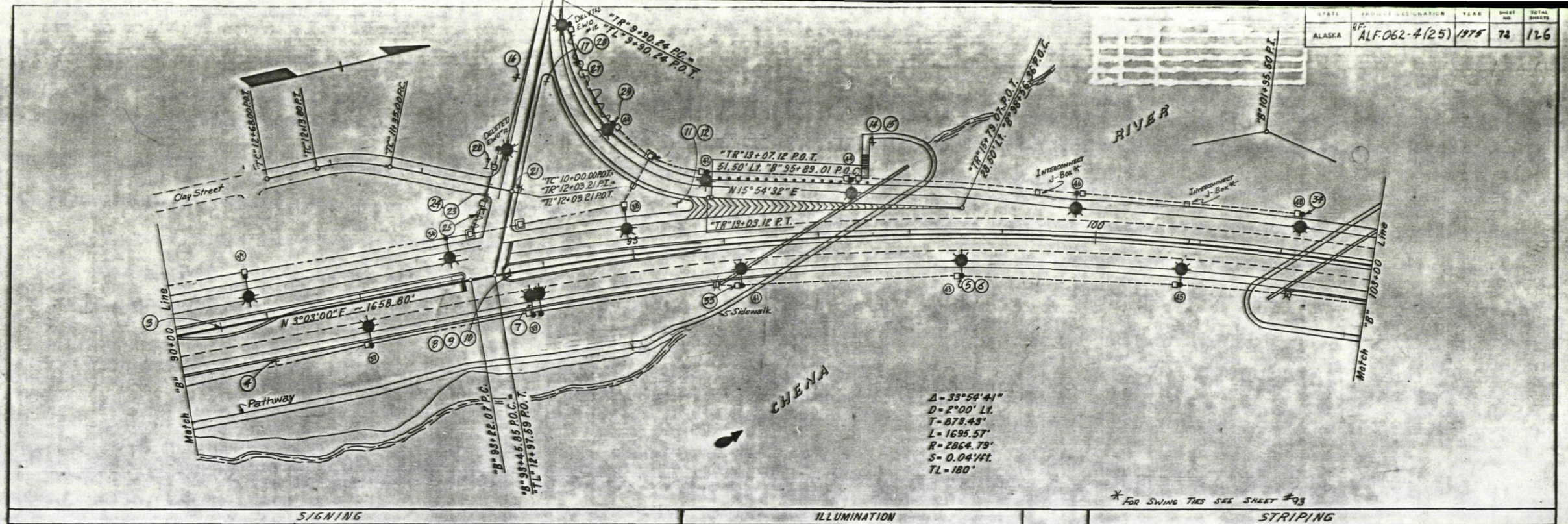
Ⓔ NOTE: POLE NUMBERS ESTABLISHED IN FIELD FOR SIGNAL & ILLUMINATION. POLE LISTED IN BLUE & RED.

STRIPING

MARKING	OFFSET	BEGRIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	34 Lt.	"B" 76+00	"B" 84+70	WHITE	4"	SOLID	870
LANE LINE	22 Lt.	"B" 76+00	"B" 84+70	WHITE	4"	BROKEN 9/16	870
EDGE LINE	10 Lt.	"B" 76+00	"B" 84+70	WHITE	4"	SOLID	870
CROSS WALK	Lt.	"B" 84+70	"B" 85+60	SEE STD T 20.00; ATM 1-38-15&6			
STOP LINE	Lt.	"B" 85+63		SEE ATM 1-38-14			
↱ ONLY ↱	Lt.	"B" 85+63	"B" 87+23	SEE STD. T 21.00			
AUX. LANE LINE	34 Lt.	"B" 85+63	"B" 88+18	WHITE	8"	SOLID	249
EDGE LINE	46 Lt. Varies	"B" 85+63	"B" 88+75	WHITE	4"	SOLID	312
LANE LINE	22 Lt.	"B" 88+63	"B" 89+25	WHITE	4"	BROKEN 9/16	62
EDGE LINE	10 Lt.	"B" 85+63	"B" 89+25	WHITE	4"	SOLID	62
EDGE LINE	34 Lt.	"B" 89+55	"B" 90+00	WHITE	4"	SOLID	45
LANE LINE	22 Lt.	"B" 89+80	"B" 90+00	WHITE	4"	SOLID	20
EDGE LINE	10 Lt.	"B" 89+83	"B" 90+00	WHITE	4"	SOLID	17
STOP LINE	Lt.	"B" 89+83		SEE ATM 1-38-14			
↱ ONLY ↱	Lt.	"B" 87+93	"B" 88+88	SEE STD T-21.00			
EDGE LINE	10 Rt. Varies	"B" 76+00	"B" 84+75	WHITE	4"	SOLID	875
AUX. LANE LINE	10 Rt.		"B" 84+75	WHITE	8"	SOLID	
↰	Rt.		"B" 84+75	SEE STD T-21.00			
↰	Rt.			SEE STD T-21.00			
STOP LINE	Rt.	"B" 84+75		SEE ATM 1-38-14			
LANE LINE	22 Rt.	"B" 76+00	"B" 81+75	WHITE	4"	BROKEN 9/16	575
EDGE LINE	34 Rt.	"B" 76+00	"B" 90+00	WHITE	4"	SOLID	400
LANE LINE	22 Rt.	"B" 85+63	"B" 86+30	WHITE	4"	BROKEN 9/16	67
LANE LINE	22 Rt.	"B" 89+85	"B" 90+00	WHITE	4"	BROKEN 9/16	15
STOP LINE	Rt.	"B" 89+30		SEE ATM 1-38-14			
EDGE LINE	10 Rt.	"B" 86+00	"B" 89+25	WHITE	4"	SOLID	325
STOP LINE		"S" 11+50		SEE ATM 1-38-14			
AUX. LANE LINE	℄	"S" 11+10	"S" 11+50	WHITE	8"	SOLID	40
EDGE LINE	12 Lt.	"S" 11+10	"S" 11+50	WHITE	4"	SOLID	40
↰ ONLY ↰		"S" 11+10		SEE STD T-21.00			
↱ ONLY ↱			"S" 11+72	SEE STD T-21.00			
LANE LINE	22 Rt.	"B" 81+75	"B" 84+75	WHITE	4"	SOLID	300
LANE LINE	22 Lt.	"B" 85+63	"B" 88+63	WHITE	4"	SOLID	300
LANE LINE	22 Rt.	"B" 86+30	"B" 89+30	WHITE	4"	SOLID	300
MEDIAN NOSE		"B" 84+75		SEE ATM 1-3A-09-1a			
MEDIAN NOSE		"B" 85+63		SEE ATM 1-3A-09-1a			

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	R.F. ALF-062-4(25)	1975	72	126



* FOR SWING TIES SEE SHEET #93

SIGNING

SIGN NO.	STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
	"B" 89+00	62'Tw		W14-4	END ROAD 500 FT.	30"x 30"			6.25	E.W.O.		#29		
	"B" 89+70	160		R1-1	STOP	30"x30"			6.25	E.W.O.		#29		
3	"B" 90+50	E		D3-2L	← 3rd Ave	84"x18"		0.080	10.5	2	P	2"	8'	S
4	"B" 91+00		46	RB-4	EMER. PARKING ONLY	30"x24"	0.080		5.0	1	P	2"	9'	S
5	"B" 98+55		47.5	M3-1	NORTH	30"x15"	0.080		3.1	Mount on Light Pole				S
6	"B" 98+55		47.5	M1-1	ALASKA 2	30"x30"	0.080		6.25	Mount on Light Pole				S
				D3-1B	3rd Ave	96"x30"		0.080	20.0	Mount on Signal Arm				S
8	"B" 93+63	E		R3-4	SYMBOL	36"x36"	0.080		9.0	1	P	2"	11'	S
9	"B" 93+63	E		XR3-4	NO U TURNS	24"x18"	0.080		3.0	Mount on Pole Above				S
10	"B" 93+63	6		Type I	(OBJECT MARKER)	18"x18"	0.080		2.25	Mount on Pole Above				S
11	"B" 95+50	47		D3-2R	3rd Ave →	84"x18"		0.080	10.5	2	P	2"	8'	N
12	"B" 95+50	47		Type I	(OBJECT MARKER)	18"x18"	0.080		2.25	Mount on Post Above				N
	"B" 94+50	54		R3-1	⊗	36"x36"			9.00	E.W.O.		#29		
14	"B" 97+60	100'		D11-1	BIKE ROUTE	24"x18"	0.080		3.0	1	P	2"	8'	W
15	"B" 97+60	100'		XD11-1	→	24"x6"	0.080		1.0	Mount on Post Above				W
33	"B" 96+15		X	T1-1	Chena River	36"x24"	0.080		6.00	Mount on Light Pole				S
16	"TL" 10+90		26	R5-1	DO NOT ENTER	48"x48"	0.125		16.0	1	P	2"	11'	W
17	"TL" 10+90	12		R5-1	DO NOT ENTER	48"x48"	0.125		16.0	2	P	2"	14'	W
	"B" 94+50	54		XR3-1	NO RIGHT TURN	24"x 18"			3.00	E.W.O.		#29		
	"TL" 11+40		26	R3-11	RIGHT TURN ONLY	30"x 30"			6.25	E.W.O. #29				
20	"TL" 11+90		25	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	8'	E
21	"TL" 12+00	10		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	8'	S
	"TL" 12+12		E	W1-6R	→	24"x48"			8.00	E.W.O.		#29		
23	"TL" 12+18		25	R1-1	STOP	30"x30"	0.080		6.25	1	P	2"	8'	S
24	"TL" 12+18		25	R6-1L	← ONE WAY	48"x16"	0.080		5.3	Mount on Post Above				
25	"TL" 12+30		25	R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	1	P	2"	8'	W
	"TL" 12+22		26	R1-1	STOP	30"x30"			6.25	E.W.O.		#29		
34	"B" 102+15	X		T1-1	Chena River	36"x24"	0.080		6.0	Mount on Light Pole				N
27	"TR" 10+75	27		R1-2	YIELD	48"x48"x48"	0.100		6.9	1	P	2"	11'	E
28	"TR" 10+75	27		R5-1	DO NOT ENTER	48"x48"	0.125		16.0	Mount on Post Above				W
~~29~~	~~"TR" 11+60~~	~~27~~		~~R5-5~~	~~PED. & BIC. PROH.~~ DELETED	~~24"x30"~~	~~0.080~~		~~5.0~~	~~Mount on Light Pole~~				~~W~~
	"TL" 12+00	16		W1-6L	←	24"x48"			8.00	E.W.O.		#29		
	"TL" 12+03	500' WEST		W14-4	END ROAD 500'	30"x 30"			6.25	NOT LISTED BUT INSTALLED UNDER				E.W.O. #29
					SIGN TOTAL				~~170.40~~ 229.30					

ILLUMINATION

STATION	LOCATION LT.	LOCATION RT.	TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"B" 90+84	49'		Shear	15'	400 Watt	R-4	40'
"B" 92+03		47.5'	Flange	15'	400 Watt	R-3	40'
① "B" 93+02	49'		Signal	15'	400 Watt	R-4	40'
① "B" 93+88*		45.5'	Signal	15'	400 Watt	R-3	40'
"B" 94+95	45.1'		Shear	15'	400 Watt	R-4	40'
"B" 96+15	″	″	″	15'	400 Watt	R-3	40'
"B" 97+35	″		″	15'	400 Watt	R-4	40'
"B" 98+55		″	″	15'	400 Watt	R-3	40'
"B" 99+75	″		″	15'	400 Watt	R-4	40'
"B" 100+95		″	″	15'	400 Watt	R-3	40'
"B" 102+15	″		″	15'	400 Watt	R-4	40'
~~"TR" 10+20~~	~~″~~		~~Flange~~	~~6'~~	~~400 Watt~~	~~R-4~~	~~40'~~
"TR" 11+60	27'		Flange	6'	400 Watt	R-4	40'
"TR" 13+00	27'		Flange	6'	400 Watt	R-4	40'
~~"TL" 11+60~~		~~22'~~	Flange	6'	~~400 Watt~~	R-4	~~40'~~

See Bridge Plan for mount detail

① Mounted on Signal Standard

℄ NOTE: POLE NUMBERS ESTABLISHED IN FIELD FOR SIGNAL & ILLUMINATION. POLES AS LISTED IN BLUE & RED.

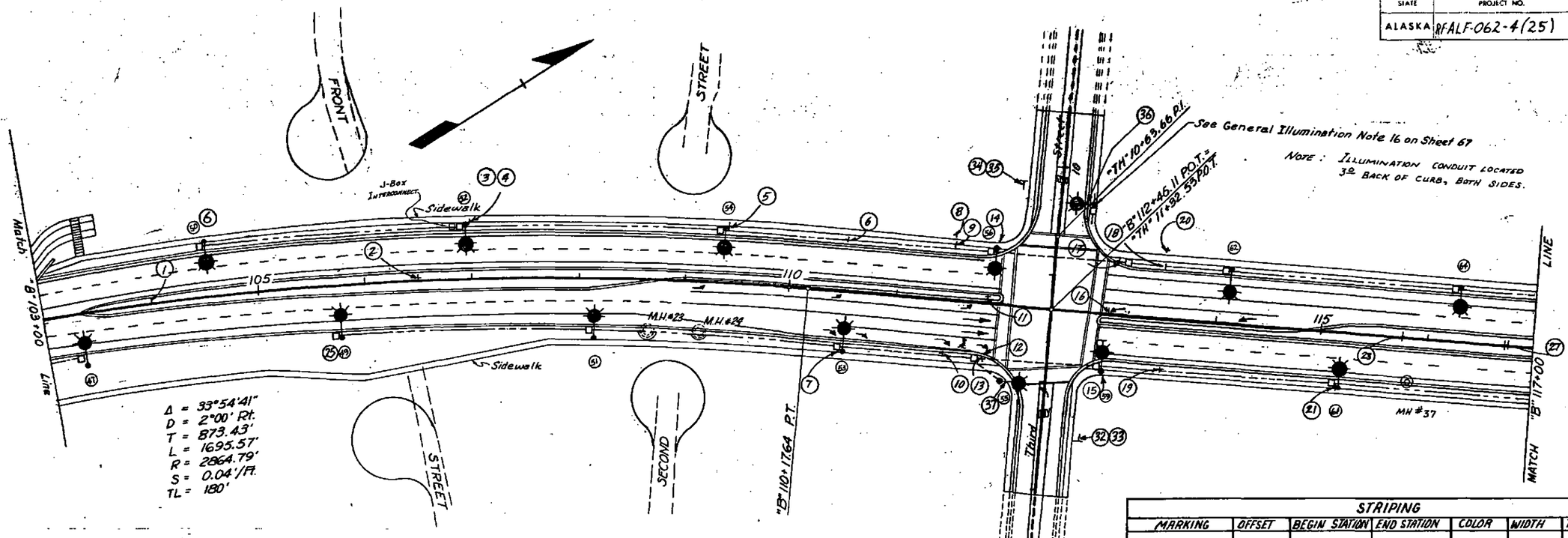
STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	34' Lt.	"B" 90+00	"B" 93+35	White	4"	Solid	335
LANE LINE	22' Lt.	"B" 92+80	"B" 93+20	White	4"	Broken 9/6	40
EDGE LINE	12' Lt.	"B" 90+00	"B" 93+10	White	4"	Solid	310
EDGE LINE	Varies - Lt.*	"B" 93+72	"B" 95+80	White	4"	Solid	208
LANE LINE	Varies - Lt.*	"B" 96+67	"B" 103+00	White	4"	Broken 9/6	633
EDGE LINE	Varies - Lt.	"B" 93+62	"B" 103+00	White	4"	Solid	638
CHANNELIZATION		"B" 95+80	"B" 98+56	See Std. T-20.00			276
STOP LINE		"B" 93+50		See ATM 1-3B-14			
EDGE LINE	Varies - Lt.*	"B" 95+89	"B" 103+00	White	4"	Solid	711
EDGE LINE	Varies - Rt.*	"B" 90+00	"B" 93+10	White	4"	Solid	310
AUX LANE LINE	10' Rt.	"B" 91+30	"B" 93+10	White	8"	Solid	180
STOP LINE		"B" 93+10		See ATM 1-3B-14			
〃	〃	"B" 91+30		See Std. T-21.00			
〃	〃		"B" 93+10	See Std. T-21.00			
LANE LINE	94'-285' Rt.	"B" 98+00	"B" 103+00	White	4"	Broken 9/6	400
EDGE LINE	Varies - Rt.*	"B" 93+63	"B" 103+00	White	4"	Solid	937
MEDIAN NOSE		"B" 93+10		Yellow	See ATM 1-3A-09-1a		
MEDIAN NOSE		"B" 93+63		Yellow	See ATM 1-3A-09-1a		
STOP LINE	〃	"TC" 10+19	〃	See ATM 1-3B-14			
EDGE LINE	10' Rt.	"TL" 9+90	"TL" 11+33	White	4"	Solid	143
EDGE LINE	E	"TL" 10+85	"TL" 12+40	White	4"	Solid	155
CHANNELIZATION		"TL" 10+20	"TL" 10+85	See ATM Fig 1-3D-11.2a			65
EDGE LINE	12' Lt.	"TR" 9+90	"TR" 13+07	White	4"	Solid	317
EDGE LINE	E	"TR" 10+20	"TR" 12+80	White	4"	Solid	260
LANE LINE	22' Lt.	"B" 90+00	"B" 92+80	White	4"	Solid	280
LANE LINE	Varies - Lt.*	"B" 93+67	"B" 96+67	White	4"	Solid	300

* Note: Median Transition "B" 93+00 to "B" 95+75.

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RFALF-062-4(25)	1979	73	126



STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	34' Lt. *	"B" 103+00	"B" 111+80	WHITE	4"	SOLID	880
LANE LINE	22' Lt. *	"B" 103+00	"B" 111+96	WHITE	4"	BROKEN 9/12	896
EDGE LINE	10' Lt. *	"B" 103+00	"B" 111+96	WHITE	4"	SOLID	896
CROSSWALK		"B" 111+96	"B" 112+92	SEE STD. T-20.00			
EDGE LINE	34' Lt.	"B" 113+20	"B" 117+00	WHITE	4"	SOLID	380
LANE LINE	22' Lt.	"B" 115+92	"B" 117+00	WHITE	4"	BROKEN 9/12	108
AUX. LANE LINE	10' Lt.	"B" 112+92	"B" 114+60	WHITE	8"	SOLID	168
"	Rt.	"B" 112+92		SEE STD. T-21.00			
"	Rt.		"B" 114+60	SEE STD. T-21.00			
EDGE LINE	VARIES Lt*	"B" 112+92	"B" 117+00	WHITE	4"	SOLID	408
LANE LINE	22' Lt.	"B" 112+92	"B" 115+92	WHITE	4"	SOLID	300
EDGE LINE	VARIES Rt.*	"B" 103+00	"B" 111+96	WHITE	4"	SOLID	896
AUX. LANE LINE	10' Rt.	"B" 109+00	"B" 111+96	WHITE	8"	SOLID	296
"	Rt.	"B" 109+00		SEE STD. T-21.00			
"	Rt.			SEE STD. T-21.00			
"	Rt.		"B" 111+96	SEE STD. T-21.00			
LANE LINE	VARIES Rt.*	"B" 103+00	"B" 108+96	WHITE	4"	BROKEN 9/12	596
EDGE LINE	VARIES Rt.*	"B" 103+00	"B" 111+96	WHITE	4"	SOLID	896
(THRU ARROW)		"B" 111+92		SEE STD. T-21.00, T-22.00			
(THRU ARROW)		"B" 111+92		SEE STD. T-21.00, T-22.00			
LANE LINE	22 Rt.	"B" 108+96	"B" 111+96	WHITE	4"	SOLID	300
AUX. LANE LINE	34 Rt.	"B" 110+50	"B" 111+96	WHITE	8"	SOLID	146
ONLY		"B" 110+50		SEE T-21.00			
ONLY			"B" 111+96	SEE T-21.00			
EDGE LINE	10 Rt.	"B" 112+92	"B" 117+00	WHITE	4"	SOLID	408
LANE LINE	22 Rt.	"B" 112+92	"B" 117+00	WHITE	8"	BROKEN 9/12	408
EDGE LINE	34 Rt.	"B" 112+92	"B" 117+00	WHITE	4"	SOLID	408
MEDIAN NOSE		"B" 111+96		YELLOW	SEE ATM 1-3A-09-1a		
MEDIAN NOSE		"B" 112+92		YELLOW	SEE ATM 1-3A-09-1a		
CENTER LINE	4' Lt.	TH 9+00	TH 10+63	YELLOW	4"	double solid	163
AUX. LANE LINE	8 Rt.	TH 9+60	TH 10+63	WHITE	8"	SOLID	103
ONLY		TH 9+60		SEE STD. T-21.00			
ONLY			TH 10+63	SEE STD T-21.00			
CENTER LINE	4 Rt.	TH 12+02	TH 15+50	YELLOW	4"	double solid	348
AUX. LANE LINE	8 Lt.	TH 12+02	TH 15+50	WHITE	8"	SOLID	348
ONLY (3)		TH 12+02	TH 15+30	SEE STD. T-21.00			

* Note: Median Transition "B" 105+75 ℄ Right Shoulder Transition "B" 108+65 to "B" 110+48.

SIGNING

SIGN NO.	STATION	DIST. FROM ℄ Lt.	DIST. FROM ℄ Rt.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"B" 104+00	—	℄	D3-2 R	3rd Ave →	84"x18"		0.080	10.5	2	P	2"	8	N
2	"B" 106+30		℄	D3-2LR	← 3rd St. →	96"x18"		0.080	12.0	2	P	2"	8	S
3	"B" 107+00	50		M3-3	SOUTH	30"x15"	0.080		3.1	1	P	2"	11	N
4	"B" 107+00	50		M1-1	ALASKA 2	30"x30"	0.080		6.25	MOUNT ON ABOVE POST				N
5	"B" 109+50	50		R2-1	SPEED LIMIT 45	36"x48"	0.080		12.0	1	P	2"	11	N
6	"B" 104+55	48.6		R8-4	EMER PKG ONLY	30"x24"	0.080		5.0	MOUNT ON LIGHT POLE				N
7	"B" 110+50		55	R3-7R	RT LN MUST TURN RT	48"x48"	0.125		16.0	MOUNT ON LIGHT POLE				S
8	"B" 111+50	63		D11-1	BIKE ROUTE	30"x24"	0.080		5.0	1	P	2"	8	N
9	"B" 111+50	50		R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	1	P	3"	9	N
10	"B" 111+50		52	R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	1	P	2"	9	N
11	"B" 111+85	6		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	8	E
12	"B" 111+85		50	R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	8	W
13	"B" 111+85		50	R3-7R	RT LN MUST TURN RIGHT	48"x48"	0.125		16.0	MOUNT ON ABOVE POLE				S
14				D3-1B	3rd St.	78"x30"		0.080	16.25	MOUNT ON SIGNAL ARM				S
15				D3-1B	3rd St.	78"x30"		0.080	16.25	MOUNT ON SIGNAL ARM				N
16	"B" 113+05		6	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	8	W
17	"B" 113+05	50		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	8	E
18	"B" 113+50	50		R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	1	P	2"	9	S
19	"B" 113+50		50	R5-5	PED & BIC PROHIBITED	24"x30"	0.080		5.0	1	P	2"	9	S
20	"B" 113+50	63		D11-1	BIKE ROUTE	30"x24"	0.080		5.0	1	P	2"	8	S
21	"B" 115+20		51	R8-4	EMER PKG ONLY	30"x24"	0.080		5.0	MOUNT ON LIGHT POLE				S
23	"B" 115+75		℄	D1-1	← Univ. of Alaska	132"x24"		0.080	22.0	2	P	2	9	S
25	"B" 106+95	51		R2-1	SPEED LIMIT 45	36"x48"	0.080		12.0	MOUNT ON LIGHT POLE				N
27	"B" 116+75		℄	D3-2LR	← 3rd St. →	96"x18"		0.080	12.0	2	P	2"	9	N
				R3-5L	ONLY	30"x36"			7.5					
				R3-5L	ONLY	30"x36"			7.5	Mount on Signal, See Sheet (95) for Detail.				
				R3-6R		30"x36"			7.5					
				R3-6R		30"x36"			7.5					
32	TH 12+50	22'		M1-1	ALASKA 2	24"x24"	0.080			2	P	2	8	E
33	TH 12+50	22'		M6-4	↔	21"x15"	0.080			MOUNT ON ABOVE POST				E
34	TH 10+00	~~22'~~	22'	M1-1	ALASKA 2	24"x24"	0.080		(2) 4.0	2	P	2"	8	W
35	TH 10+00	~~22'~~	22'	M6-4	↔	21"x15"	0.080		(2) 2.2	MOUNT ON ABOVE POST				W
36				D3-1B	Steese Expwy	120"x30"		0.080	25.0	Mount on Signal Arm				W
37				D3-1B	Steese Expwy	120"x30"		0.080	25.0	Mount on Signal Arm				W

ILLUMINATION

STATION	LOCATION LT.	LOCATION RT.	TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"B" 103+35		42'	Flange	15'	400 Watt	⑧-3	40'
"B" 104+55	48.6		Flange	15'	400 Watt	T-1	40'
"B" 105+75		49'	Flange	15'	400 Watt	T-2	40'
"B" 106+95	51'		Flange	15'	400 Watt	T-1	40'
"B" 108+15		49'	Flange	15'	400 Watt	T-2	40'
"B" 109+35	51'		Flange	15'	400 Watt	T-1	40'
"B" 110+55		53'	Flange	15'	400 Watt	T-2	40'
①"B" 111+90	50.5		Signal	15'	400 Watt	T-1	40'
①"B" 112+98		50.5	Signal	15'	400 Watt	T-2	40'
"B" 114+11	51'		Flange	15'	400 Watt	T-1	40'
"B" 115+20		51'	Flange	15'	400 Watt	T-2	40'
"B" 116+29	51'		Flange	15'	400 Watt	T-1	40'
①TH 12+00		41'	Signal	15'	400 Watt	T-2	40'

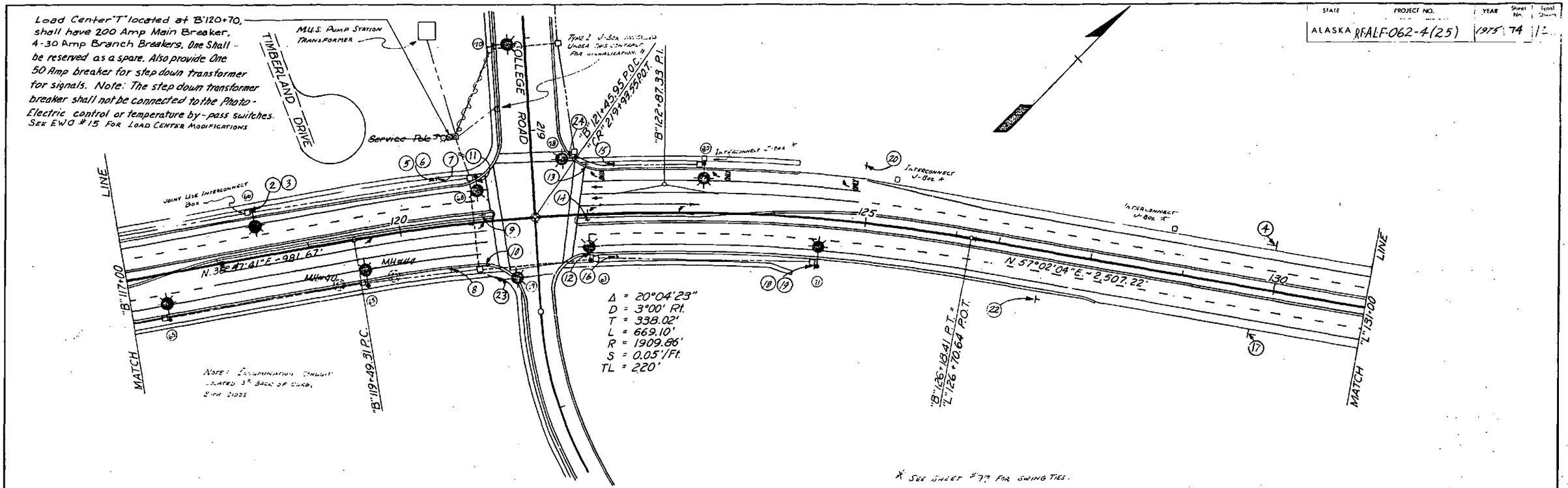
① Mounted on Signal Standard.

Ⓟ Note: Pole Numbers established in field for Signal & Illumination. Pole #'s listed in Blue & Red.

308.08
SIGNING TOTAL = ~~307.95~~ FT.²

SIGNING – ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RFALF-062-4(25)	1975	74	112



SIGNING

SIGN NO.	STATION	DIST. FROM ℄ Lt.	DIST. FROM ℄ Rt.	CODE NO.	LEGEND	SIGN PANEL SIZE	SIGN PANEL UNFRAMED	SIGN PANEL FRAMED	SIGN PANEL AREA FT²	POST NO. of POSTS	POST TYPE	POST SIZE	POST LENGTH	DIRECTION
1														
2	B"118+47	51		M3-3	SOUTH	30"x15"	0.080"		3.10	Mount on Light Pole				N
3	B"118+47	51		M1-1	ALASKA Z	30"x30"	0.080"		6.25	Mount on Light Pole				N
4	B"130+00	50		R8-4	EMERGENCY PARKING ONLY	30"x24"	0.080		5.00	1	P	2"	10	N
5	B"120+50	50		D11-1	BIKE ROUTE	30"x24"	0.080"		9.00	1	P	2"	10	S
6	B"120+50	50		XD11-1	←	30"x8"	0.080"		1.67	Mount on Above Pole				S
7	B"120+50	50		R5-5	PED℄BIC PROH	24"x30"	0.080"		5.00	1	P	2"	9	N
8	B"120+50		50	R5-5	PED℄BIC PROH	24"x30"	0.080"		5.00	1	P	2"	9	N
9	B"120+90	6		R6-1R	ONE WAY →	48"x16"	0.125"		5.30	1	P	2"	9	E
10	B"120+90		50	R6-1L	← ONE WAY	48"x16"	0.125"		5.30	1	P	2"	9	W
11				D3-1B	College Rd.	108"x30"		0.080"	22.50	Mount on Signal				S
12				D3-1B	College Rd.	108"x30"		0.080"	22.50	Mount on Signal				N
13	B"122+00	50		R6-1L	← ONE WAY	48"x16"	0.125"		5.30	1	P	2"	9	E
14	B"122+00		6	R6-1R	ONE WAY →	48"x16"	0.125"		5.30	1	P	2"	9	W
15	B"122+30	50		R5-5	PED℄BIC PROH	24"x30"	0.080"		5.00	1	P	2"	9	S
16	B"122+30		50	R5-5	PED℄BIC PROH	24"x30"	0.080"		5.00	1	P	2"	9	S
17	B"130+00		50	R8-4	EMERGENCY PARKING ONLY	30"x24"	0.080"		5.00	1	P	2"	10	S
18	B"124+50		51	M3-1	NORTH	30"x15"	0.080"		3.10	Mount on Light Pole				S
19	B"124+50		51	M1-1	ALASKA Z	30"x30"	0.080"		6.25	Mount on Light Pole				S
20	B"124+96	60		D1-1	Univ. of Alaska →	132"x24"		0.080"	22.00	2	P	2"	11	N
21														
22	L"127+50		50	R2-1	SPEED LIMIT 45	36"x48"	0.080"		12.00	1	P	2"	11	S
23				D3-1B	Steese Expwy	120X30		0.080"	25.0	MOUNT on SIGNAL ARM				W
24				D3-1B	Steese Expwy	120X30		0.080"	25.0	MOUNT on SIGNAL ARM				E
					SIGN TOTAL				225.75 ~~205.57~~					

ILLUMINATION

STATION	LOCATION Lt.	LOCATION Rt.	TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
B"117+38		51'	Flange	15'	400 Watt	T-2	40'
B"118+47	51'		Flange	15'	400 Watt	T-1	40'
B"119+56		51'	Flange	15'	400 Watt	T-2	40'
① B"120+85	505'		Signal	15'	400 Watt	T-1	40'
① B"122+00		50.5'	Signal	15'	400 Watt	T-2	40'
B"123+25	50'		Flange	15'	400 Watt	T-5	40'
B"124+50		51'	Flange	15'	400 Watt	T-2	40'
① "CR" 220+53		40'	Signal	15	400 Watt	T-2	40'

① Mounted on Signal Standard.

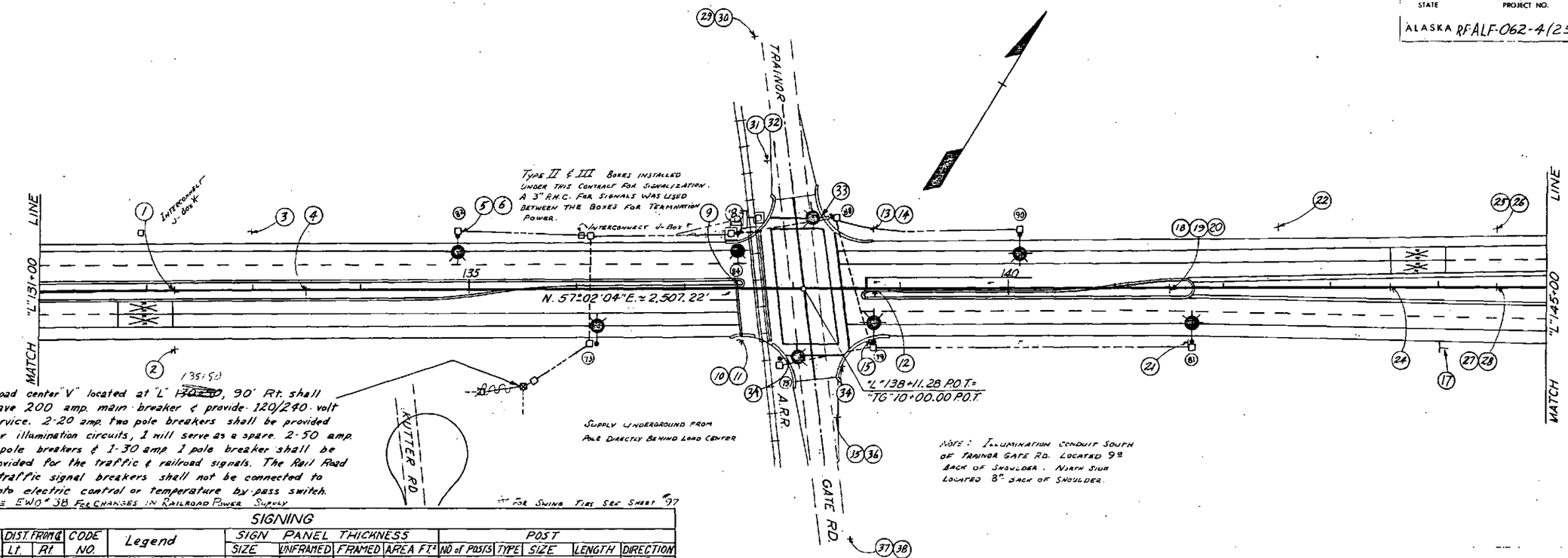
⑥ NOTE: POLE NUMBERS ESTABLISHED IN FIELD FOR SIGNAL & ILLUMINATION. POLE NUMBERS LISTED IN RED & BLUE

STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT
EDGE LINE	34 Lt.	"B" 117+00	"B" 120+67	WHITE	4"	SOLID	367
LANE LINE	22 Lt.	"B" 117+00	"B" 121+04	WHITE	4"	BROKEN	404
EDGE LINE	10 Lt.	"B" 117+00	"B" 121+04	WHITE	4"	SOLID	404
CROSSWALK (4)		"B" 121+04	"B" 121+94				
EDGE LINE	Varies Lt.	"B" 122+24	"L" 131+00	WHITE	4"	SOLID	824
AUX. LANE LINE	34 Lt.	"B" 121+98	"B" 124+96	WHITE	8"	SOLID	298
LANE LINE	22 Lt.	"B" 121+96	"B" 124+96	WHITE	4"	SOLID	300
LANE LINE	22 Lt.	"B" 124+96	"L" 131+00	WHITE	4"	BROKEN	552
AUX. LANE LINE	10 Lt.	"B" 121+94	"B" 123+25	WHITE	8"	SOLID	131
EDGE LINE	Varies Lt.	"B" 121+94	"L" 131+00	WHITE	4"	SOLID	854
↰	Lt.	"B" 121+94					
↰	Lt.		"B" 123+25				
↑ (THRU ARROW)	Lt.	"B" 122+00	See Standard Drawing T-22.00	See Standard Drawing T-21.00			
↑ (THRU ARROW)	Lt.	"B" 122+00					
↱ ONLY } (3)	Lt.	"B" 121+98					
↱ ONLY }	Lt.		"B" 124+96				
EDGE LINE	Varies Rt.	"B" 117+00	"B" 121+04	WHITE	4"	SOLID	404
AUX. LANE LINE	10' Rt.	"B" 118+00	"B" 121+04	WHITE	8"	SOLID	304
LANE LINE	22' Rt.	"B" 117+00	"B" 118+04	WHITE	4"	BROKEN	104
LANE LINE	22' Rt.	"B" 118+04	"B" 121+04	WHITE	4"	SOLID	300
EDGE LINE	34' Rt.	"B" 117+00	"B" 120+77	WHITE	4"	SOLID	377
↰ } (3) } Rt.		"B" 118+00		See Standard Drawing T-21.00			
↰			"B" 121+04				
EDGE LINE	10' Rt.	"B" 121+94	"L" 131+00	WHITE	4"	SOLID	906
LANE LINE	22' Rt.	"B" 121+92	"L" 131+00	WHITE	4"	BROKEN	908
EDGE LINE	34' Rt.	"B" 121+99	"L" 131+00	WHITE	4"	SOLID	901
MEDIAN NOSE		"B" 121+04		YELLOW	See ATM 1-3A-09-1a		
MEDIAN NOSE		"B" 121+94		YELLOW			

SIGNING – ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No	Total Sheets
ALASKA	RF ALF-062-4(25)	1975	75	126



SIGNING

SIGN NO.	Station	DIST. FROM ℄ Lt.	DIST. FROM ℄ Rt.	CODE NO.	Legend	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT²	POST NO of POSTS	TYPE	SIZE	LENGTH	DIRECTION
		X		R15-1	R/R CROSSING	48"x48"	0.125		16.0	MOUNT ON R/R SIGNAL				S
			X	R15-1	R/R CROSSING	48"x48"	0.125		16.0					S
		X		R15-1	R/R CROSSING	48"x48"	0.125		16.0					N
			X	R15-1	R/R CROSSING	48"x48"	0.125		16.0					N
1	"L" 132+25		℄	W10-1	SYMBOL	48" DIA.	0.100		12.61	1	P	2"	11	S
2	"L" 132+25		54'	W10-1	SYMBOL	48" DIA.	0.100		12.61	1	P	2"	13	S
3	"L" 133+00	54'		R2-1	SPEED LIMIT 45	36"x48"	0.080		12.0	1	P	2"	13	N
4	"L" 133+50		℄	D3-2RL	←Trainor Gate Rd→	156"x18"		0.080	19.5	2	P	2"	9	S
5	"L" 134+89	54'		M3-3	SOUTH	30"x15"	0.080		3.1	MOUNT ON LIGHTPOLE				N
6				M1-1	ALASKA 2	30"x30"			6.25					
8	"L" 137+49	50'		R5-5	PED. & BIC. PROH.	24"x30"	0.080		5.0	MOUNT ON LIGHTPOLE				N
9		6'		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	9	E
10	"L" 137+50		54'	R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11	W
11			54'	R5-5	PED & BIC. PROH.	24"x30"	0.080		5.0	MOUNT ON POST ABOVE				N
12			6'	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	9	W
13	"L" 138+75	54'		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11	E
14		54'		R5-5	PED & BIC. PROH.	24"x30"	0.080		5.0	MOUNT ON POST ABOVE				S
15	"L" 138+76		50'	R5-5	PED & BIC. PROH.	24"x30"	0.080		50	1	P	2"	11	S
16	"L" 140+11	50'		R2-1	SPEED LIMIT 45	36"x48"	0.080		12.0	MOUNT ON LIGHTPOLE				S
17	"L" 144+00		54'	R8-4	EMER. PKG. ONLY	30"x 24"	0.080		5.0	1	P	2"	11	S
18				R4-7A	KEEP RIGHT	36"x48"	0.080		12.0	1	P	2½"	12	N
19	"L" 141+65		℄	TYPE I	(OBJECT MARKER)	18"x18"	0.080		2.25	MOUNT ON POST ABOVE				N
20				R4-3	SLOW TRAFFIC KEEP RT.	48"x60"	0.125		20.0					S
21	"L" 141+71		50'	R2-1	SPEED LIMIT 56 [illegible]	36"x48"	0.080		12.0	MOUNT ON LIGHTPOLE				S
22	"L" 142+50	54'		D3-2RL	←Trainor Gate Rd →	156"x 18		0.080	19.5	2	P	2"	12	N
23	"L" 143+55	58'		W10-1	SYMBOL	48" DIA.	0.100		12.61	1	P	2"	13	N
24			℄	W10-1	SYMBOL				12.61	1	P	2"	13	
25				W3-3	SYMBOL	48"x48"			16.0	2	P	2"	15	
26	"L" 144+55	60'		XW3-3	SIGNAL AHEAD	24"x18"	0.080		3.0	MOUNT ON POST ABOVE				N
27			℄	W3-3	SYMBOL	48"x48"			16.0	2	P	2"	15	
28				XW3-3	SIGNAL AHEAD	24"x18"			3.0	MOUNT ON POST ABOVE				
29	"TG" 7+65		32	W10-1	SYMBOL	36" DIA.	0.080		7.11	1	P	2'	13	E
30				W10-1 R	⟶	24"x 12"			2.0	MOUNT ON POST ABOVE				
31	"TG" 8+80		32	M1-1	ALASKA 2	24"x24"	0.080		4.0	1	P	2"	12	E
32				M6-4	⟶ ⟵	21"x15"			2.2	MOUNT ON POST ABOVE				E
33				D3-1B	STEESE EXPWY.	120x30		0.080	25.0	MOUNT ON SIGNAL ARM				E
34				D3-1B	STEESE EXPWY.	120x30		0.080	25.0	MOUNT ON SIGNAL ARM				W
35	"TG" 11+20	32		M1-1	ALASKA 2	24"x24"	0.080		4.0	1	P	2'	12	W
36				M6-4	⟶ ⟵	21"x15"			2.2	MOUNT ON POST ABOVE				W
37	"TG" 12+35	32		W10-1	SYMBOL	36" DIA.	0.080		7.11	1	P	2"	12	W
38				W10-1 L	⟵	24"x12"			2.0	MOUNT ON POST ABOVE				W

397.75
SIGN TOTAL - ~~395.61~~ FT.²

ILLUMINATION

STATION	LOCATION Lt.	LOCATION Rt.	TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"L" 134+89	49'		Shear	15'	400 Watt	V-1	40'
"L" 136+19		49'	Shear	15'	400 Watt	V-1	40'
① "L" 137+49	50'		Signal	15'	400 Watt	V-1	40'
① "L" 138+76		50'	Signal	15'	400 Watt	V-1	40'
"L" 140+11	49'		Shear	15'	400 Watt	V-1	40'
"L" 141+71		49'	Shear	15'	400 Watt	V-1	40'
① "TG" 9+36	30'		Signal	15'	400 Watt	V-1	40'
① "TG" 10+63		30'	Signal	15'	400 Watt	V-1	40'

① Mounted on Signal Standard.

Ⓔ Note: Pole numbers established in field for signal & illumination. Pole #'s listed in blue & red.

STRIPING

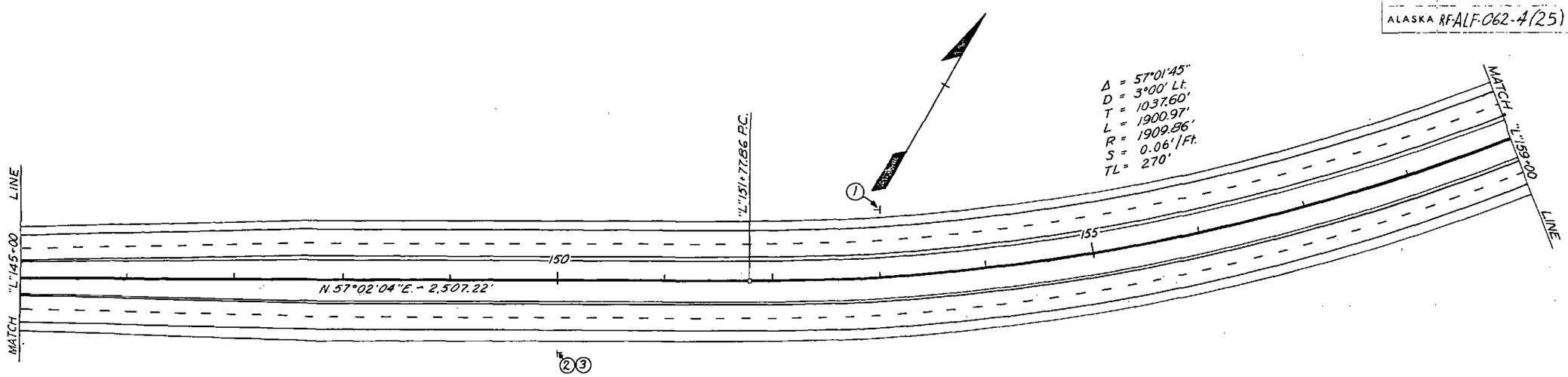
MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	34' Lt.	"L" 131+00	"L" 137+54	White	4"	Solid	654
LANE LINE	22' Lt.	"L" 131+00	"L" 137+54	White	4"	Broken 9'/3'	654
EDGE LINE	10' Lt.	"L" 131+00	"L" 137+50	White	4"	Solid	650
CROSSWALK (4)		See ATM 1-3B-15-66; Std. T-20.00					
EDGE LINE	34' Lt. Varies*	"L" 138+45	"L" 145+00	White	4"	Solid	655
LANE LINE	22' Lt. Varies*	"L" 138+45	"L" 144+15	White	4"	Solid	570
AUX. LANE LINE	10' Lt. Varies*	"L" 138+70	"L" 140+20	White	8"	Solid	150
STOP LINE		"L" 138+70	See ATM 1-3B-14				
EDGE LINE	Lt. Varies*	"L" 138+70	"L" 145+00	White	4"	Solid	630
R/R CROSSING		"L" 143+55	"L" 144+05	See Std. T-20.00; T-22.00			
LANE LINE	Lt. Varies*	"L" 144+15	"L" 145+00	White	4"	Broken 9'/3'	85
↑ ONLY		"L" 138+70	"L" 139+54	See Std. T-21.00			
↑ ONLY		"L" 140+01	"L" 140+20	See Std. T-21.00			
EDGE LINE	10' Rt. Varies	"L" 131+00	"L" 137+54	White	4"	Solid	654
LANE LINE	22' Rt.	"L" 131+00	"L" 131+65	White	4"	Broken 9'/3'	65
R/R CROSSING		"L" 131+75	"L" 132+25	See Std. T-20.00, T-22.00			
LANE LINE	22' Rt.	"L" 131+65	"L" 137+54	White	4"	Solid	589
AUX. LANE LINE	10' Rt.	"L" 136+04	"L" 137+54	White	8"	Solid	150
↑ ONLY		"L" 136+04	"L" 136+23	See Std. T-21.00			
↑ ONLY		"L" 136+70	"L" 137+54	See Std. T-21.00			
R/R STOP LINE		"L" 137+54		See Std. T-20.00;			
EDGE LINE	22' Rt.	"L" 131+00	"L" 137+54	White	4"	Solid	654
EDGE LINE	10' Rt. Varies*	"L" 138+70	"L" 145+00	White	4"	Solid	630
LANE LINE	22' Rt. Varies*	"L" 138+70	"L" 145+00	White	4"	Broken 9'/3'	630
EDGE LINE	34' Rt. Varies*	"L" 138+70	"L" 145+00	White	4"	Solid	638
CENTERLINE	℄	"TG" 9+33	"TG" 8+33	Yellow	4"	Double Solid	100
CENTERLINE	℄	"TG" 10+67	"TG" 11+67	Yellow	4"	Double Solid	10
MEDIAN NOSE	Lt	"L" 137+54		See ATM 1-3A-09-1a			
MEDIAN NOSE	Rt	"L" 138+70		See ATM 1-3A-09-1a			

* Offsets vary in median transition Sta. 141+65 to Sta. 147+65

SIGNING - ILLUMINATION & STRIPING

W.S.E. - 2-22-77 Revised 'TG' Intersection

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	76	126



SIGNING

Sign No.	Station	Dist. From ℄ Lt	Dist. From ℄ Rt	Code No.	Legend	Sign Panel Thickness Size	Unframed	Framed	Area Ft²	POST Post*	Type	Size	Length	Dir.
1	153+00	51		R2-1	SPEED LIMIT 45	36x48	0.080		12.0	1	P	2"	~~7'~~ 14'	N
2	150+00		66'	M3-1	NORTH	30x15	0.080		3.1	1	P	2"	~~12'~~ 14'	S
3				M1-1	ALASKA 2	30x30	0.080		6.25	MOUNT on POST ABOVE				
						Sign Total			~~21.35~~ 21.38					

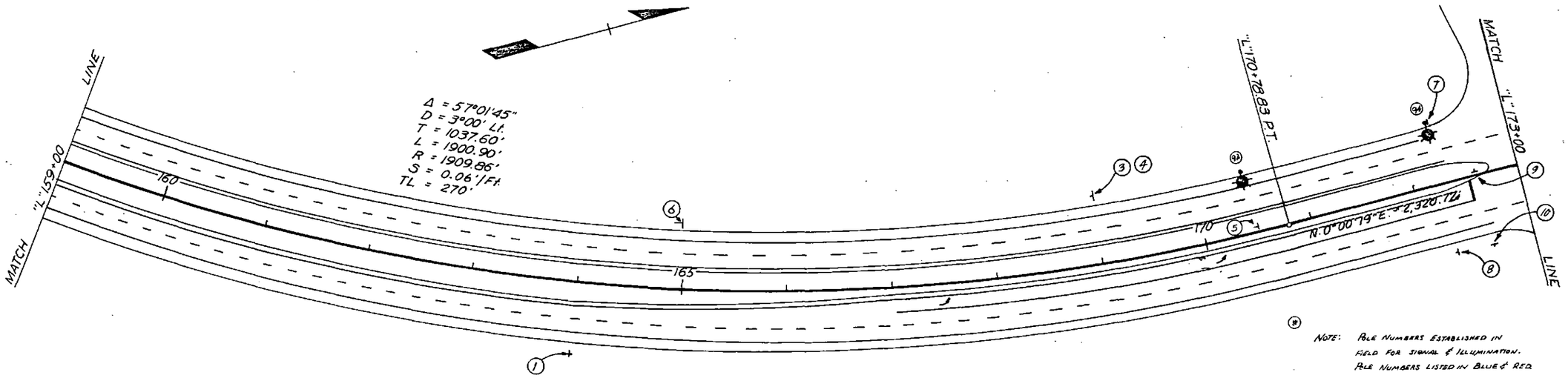
STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
	*						
EDGE LINE	46' Rt.	"L" 145+00	"L" 159+00	White	4"	Solid	1400
LANE LINE	34' Rt.	"L" 145+00	"L" 159+00	White	4"	Broken 10'-30'	1400
EDGE LINE	22' Rt.	"L" 145+00	"L" 159+00	White	4"	Solid	1400
EDGE LINE	22' Lt.	"L" 145+00	"L" 159+00	White	4"	Solid	1400
LANE LINE	34' Lt.	"L" 145+00	"L" 159+00	White	4"	Broken 10'-30'	1400
EDGE LINE	46' Lt.	"L" 145+00	"L" 159+00	White	4"	Solid	1400

* Offsets will vary in Median Transition Sta. "L" 141+65 to Sta. "L" 147+65

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	NF-ALF-062-4(25)	1975	77	126



NOTE: Pole Numbers Established in Field for Signal & Illumination. Pole Numbers Listed in Blue & Red.

SIGNING

SIGN NO.	STATION	DIST. FROM ℄ Lt.	DIST. FROM ℄ Rt.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"L" 164+00		66'	D3-2L	← Old Steese Hwy	132"x18"		0.080	16.5	2	P	2"	12'	S
3	"L" 169+00	66'		M3-3	SOUTH	30"x15"	0.080		3.1	1	P	2"	14'	N
4	"L" 169+00	66'		M1-1	ALASKA 2	30"x30"	0.080		6.25	MOUNT ON ABOVE POST				N
5	"L" 170+50	8'		R4-3	SLOW TRAFFIC KEEP RT	48"x60"	0.125		20.00	1	P	2½"	15'	N
6	"L" 165+00	66'		R8-4	EMER. PKG. ONLY	30"x24"	0.080		5.0	1	P	2"	15'	N
7	"L" 172+30	61'		R5-5	PED. & BIC. PROHIBITED	24"x30"	0.080		5.0	MOUNT ON LIGHT POLE				N
8	"L" 172+30		66'	R5-5	PED. & BIC. PROHIBITED	24"x30"	0.080		5.0	1	P	2"	10	N
9	"L" 172+60	5		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	11	E
10	"L" 172+60		66'	R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11	W
					SIGN TOTAL				~~71.45~~ 71.54					

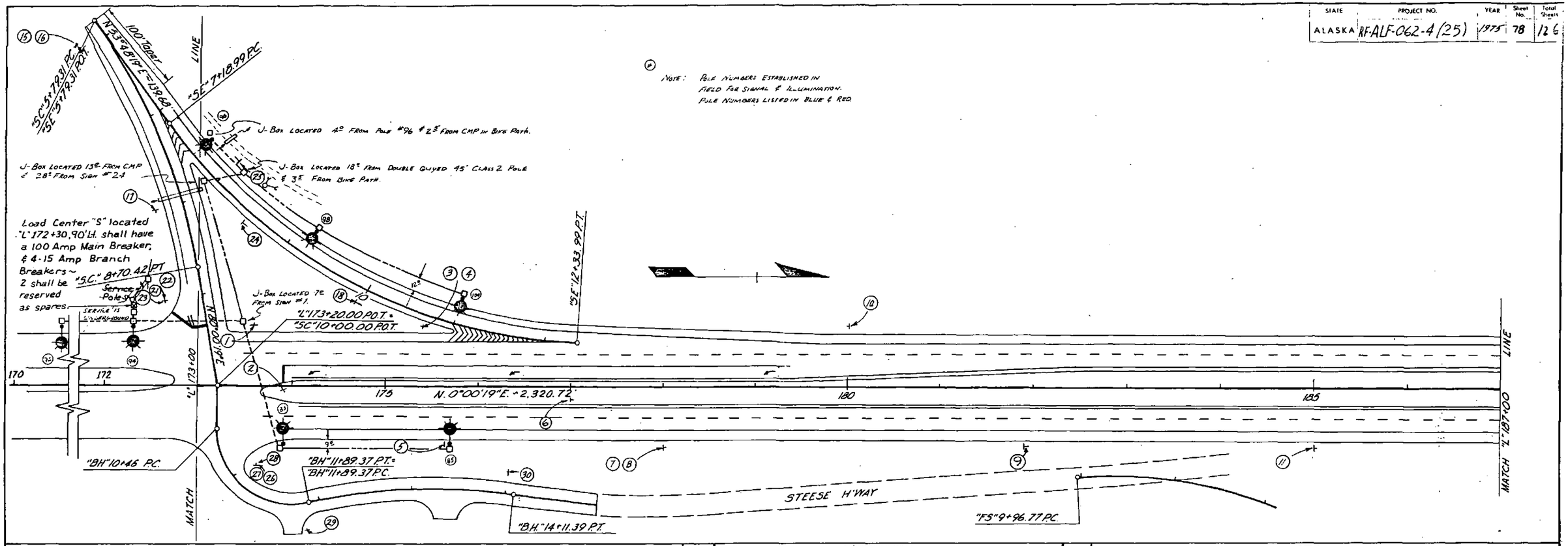
NOTE For Illumination Table, see Sheet No. 78

STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	22' Lt.	"L" 159+00	"L" 172+30	WHITE	4"	SOLID	1,330'
LANE LINE 1&2&3	34' Lt.	"L" 159+00	"L" 172+90	WHITE	4"	BROKEN	1,390'
EDGE LINE	46' Lt.	"L" 159+00	"L" 172+30	WHITE	4"	SOLID	1,350'
EDGE LINE	22'-10" Rt.	"L" 159+00	"L" 172+30	WHITE	4"	SOLID	1,330'
	Rt.	"L" 167+00		WHITE	See Std. T-21.00		
	Rt.			WHITE	See Std. T-21.00		
	Rt.		"L" 172+30	WHITE	See Std. T-21.00		
AUX. LANE LINE	22' Rt.	"L" 167+00	"L" 172+30	WHITE	8"	SOLID	350'
LANE LINE 1&2&3	34' Rt.	"L" 159+00	"L" 172+90	WHITE	4"	BROKEN	1,390'
EDGE LINE	46' Rt.	"L" 159+00	"L" 172+75	WHITE	4"	SOLID	1,375'
STOP LINE		"L" 172+50	See ATM 1-3B-14				

SIGNING – ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	78	126



SIGNING

SIGN NO.	STATION	DIST FROM ℄ LT.	DIST FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"L" 173+60	66'		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11'	E
2	"L" 173+90		5'	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	11'	W
3	"L" 175+40	66'		W12-1	SYMBOL	30"x30"	0.080		6.25	1	P	2"	13'	W
4	"L" 175+40	66'		TYPE I	(OBJECT MARKER)	18"x18"	0.080		2.25	MOUNT ON ABOVE POST				N
5	"L" 175+70		61'	R8-4	EMER PKG ONLY	30"x24"	0.080		5.00	1	P	2"	11'	S
6	"L" 177-00		10	R4-3	SLOW TRAFFIC KEEP RT	48"x60"	0.125		20.0	1	P	2½"	15'	S
7	"L" 178+00		66'	M3-1	NORTH	30"x15"	0.080		3.1	1	P	2"	14'	S
8	"L" 178+00		66'	M1-1	ALASKA 2	30"x30"	0.080		6.25	MOUNT ON ABOVE POST				S
9	"L" 182+00		66'	R2-1	SPEED LIMIT 55	36"x48"	0.080		12.0	1	P	2"	14'	S
10	"L" 180+00	66'		D3-2R	Old Steese Hwy →	132"x18"		0.080	16.5	2	P	2"	14'	N
11	"L" 185+00		66'	D2-3	Fox 8 Livengood 76 Circle 156	102"x48"	102"x48"		34.0	2	P	2½"	15'	S
14	"SC" 3+75		24'	W3-1	STOP AHEAD	36"x36"	0.080		9.00	1	P	2"	12'	W
15	"SC" 6+00		30'	M1-1	ALASKA 2	24"x24"	0.080		4.0	1	P	2"	10	W
16	"SC" 6+00		30'	M6-4	←→	21"x15"	0.080		2.2	MOUNT ON ABOVE POST				W
17	"SC" 8+00		30'	D1-2	← Fox City Ctr. →	72"x24"		0.080	12.0	2	P	2"	12'	W
18	SE 10+00		18'	R5-1A	WRONG WAY	36"x24"		0.080	6.0	1	P	2"	11	W
21	"SC" 9+00		40'	R1-1	STOP	36"x36"	0.080		9.0	1	P	2"	14'	W
22	"SC" 9+00		40'	D3-1	OLD STEESE HWY	54"x8"	0.125		3.0	MOUNT ON ABOVE POST				N/S
23	"SC" 9+00		40'	D3-1	STEESE EXPWY	42"x8"	0.100		2.33	MOUNT ON ABOVE POST				E/W
24	"SE" 9+50	18'		R5-1	DO NOT ENTER	36"x36"	0.080		9.0	1	P	2½"	12'	W
25	"SE" 8+00	32'		R1-2	YIELD	48"x48"x48"	0.100		6.9	MOUNT ON ABOVE POST				E
26	"BH" 11+10	24'		R1-1	STOP	36"x36"	0.080		9.0	1	P	2"	14	E
27	"BH" 11+10	24'		D3-1	STEESE EXPWY	42"x8"	0.100		2.33	MOUNT ON ABOVE POST				E/W
28	"BH" 11+10	24'		D3-1	OLD STEESE HWY	54"x8"	0.125		3.00	MOUNT ON ABOVE POST				N/S
29	"BH" 11+85		28	R1-1	STOP	24"x24"	0.080		4.00	1	P	2"	10'	E
30	"BH" 12+00	24		W3-1	STOP AHEAD	36"x36"	0.100		9.00	1	P	2"	12	S

ILLUMINATION

STATION	LOCATION Lt.	LOCATION Rt.	MAST ARM TYPE BASE	MAST ARM LENGTH	MAST ARM LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"L" 170+50	61'		Shear	15'	400 Watt	S-1	40'
"L" 172+30	61'	~~61'~~	Shear	15'	400 Watt	S-1	40'
"L" 173+90	~~27'~~	61'	Shear	6'	400 Watt	S-2	40'
"L" 175+70		61'	Shear	15'	400 Watt	S-1	40'
"SE" 7+60	27'		Shear	6'	400 Watt	S-2	40'
"SE" 9+20	27'		Shear	6'	400 Watt	S-2	40'
"SE" 11+00	27'		Shear	6'	400 Watt	S-2	40'

206.82
SIGN TOTAL = ~~204.46~~ FT.²

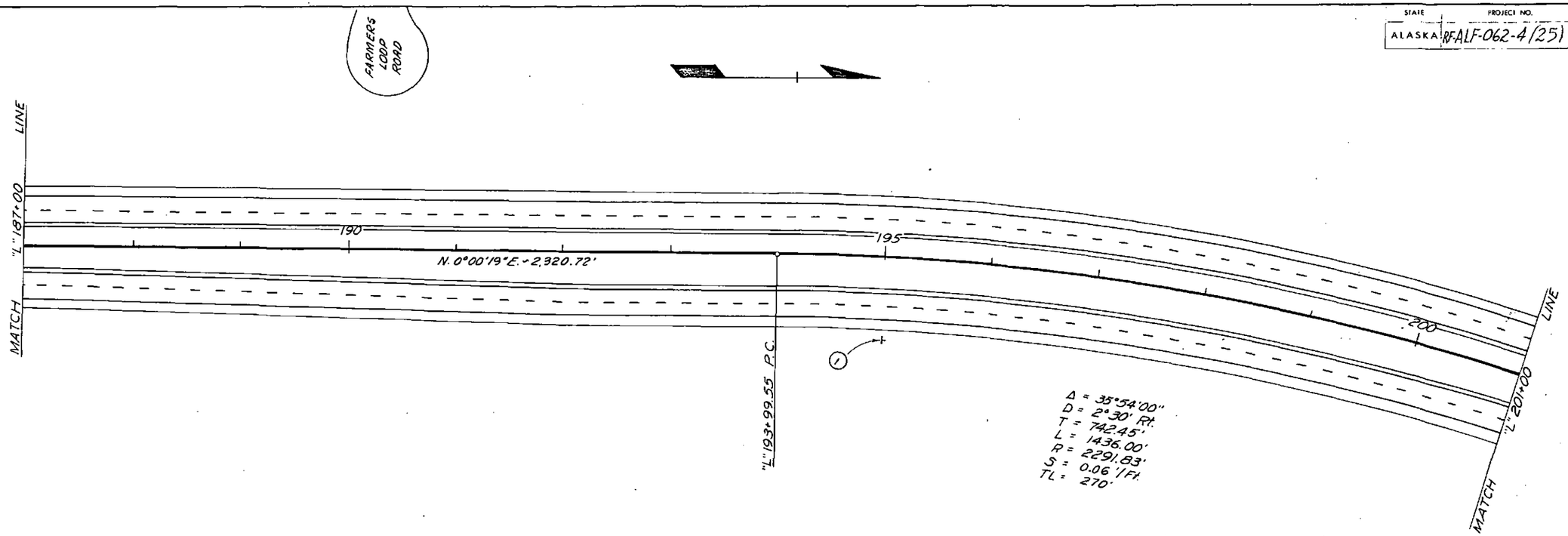
STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	46' Lt.	"L" 173+35	"L" 175+70	WHITE	4"	SOLID	235'
CHANNELIZATION	46' Lt.	"L" 175+70	"L" 177+00	WHITE	See Std. T-20.00		130'
EDGE LINE	58-46' Lt.	"L" 177+00	"L" 187+00	WHITE	4"	SOLID	1,000'
LANE LINE 15/25	34' Lt.	"L" 173+50	"L" 187+00	WHITE	4"	BROKEN	1,350'
AUX. LANE LINE	22' Lt.	"L" 173+50	"L" 179+25	WHITE	8"	SOLID	535'
↰	Lt.	"L" 173+90		WHITE	See Std. T-21.00		
↰	Lt.			WHITE	See Std. T-21.00		
↰	Lt.		"L" 179+25	WHITE	See Std. T-21.00		
EDGE LINE	10-22 Lt.	"L" 174+00	"L" 187+00	WHITE	4"	SOLID	1,300'
STOP LINE	Lt.	"L" 173+90	See ATM 1-38-14				
EDGE LINE	22' Rt.	"L" 174+00	"L" 187+00	WHITE	4"	SOLID	1,300'
LANE LINE 15/25	34' Rt.	"L" 173+50	"L" 187+00	WHITE	4"	BROKEN	1,350'
EDGE LINE	46' Rt.	"L" 174+00	"L" 187+00	WHITE	4"	SOLID	1,300'
EDGE LINE	12' Rt.	"SC" 5+80	"SC" 8+70	WHITE	4"	SOLID	290'
CENTER LINE	℄	"SC" 5+80	"SC" 9+35	YELLOW	4"	DOUBLE SOLID	335'
STOP LINE	Rt.	"SC" 9+35	- *	WHITE	24"	SOLID	-
EDGE LINE	12' Lt.	"SC" 7+65	"SC" 9+35	WHITE	4"	SOLID	170'
CHANNELIZATION	12' Lt.	"SC" 6+00	"SC" 7+65	WHITE	See Std. T-20.00		165'
EDGE LINE	12' Lt.	"SE" 5+80	"SE" 12+30	WHITE	4"	SOLID	650'
EDGE LINE	12' Rt.	"SE" 7+65	"SE" 11+00	WHITE	4"	SOLID	335'

* See ATM 1-38-14 Paragraph 5.

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	79	126



SIGNING

SIGN NO.	STATION	DIST. FROM ℄ RT	DIST. FROM ℄ LT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	SIGN PANEL THICKNESS UNFRAMED	SIGN PANEL THICKNESS FRAMED	SIGN PANEL THICKNESS AREA FT²	POST NO. of POSTS	POST TYPE	POST SIZE	POST LENGTH	POST DIRECTION
1	"L" 195+00		78	R12-6	NO STUDDED TIRES MAY 1 TO SEPT 15	84"x66"		0.080	38.5	2	P	2½"	13	S
					SIGN TOTAL				38.5					

NOTE: There is no Illumination on this Sheet.

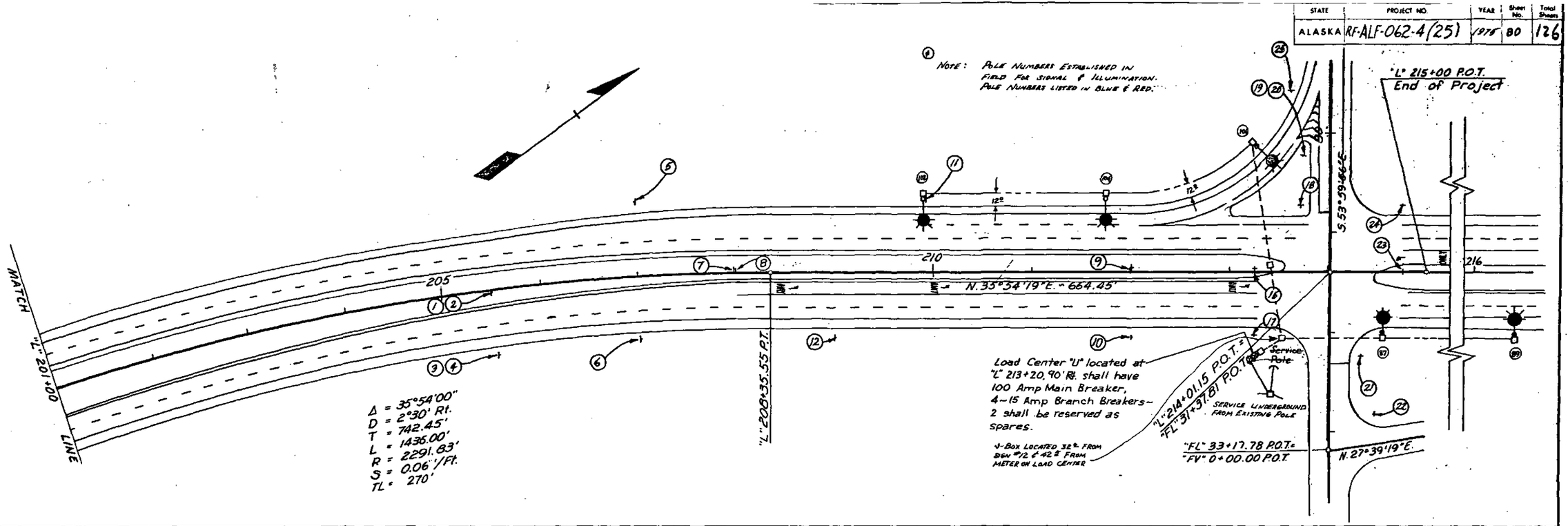
STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	46' Lt.	"L" 187+00	"L" 201+00	White	4"	Solid	1400
LANE LINE	34' Lt.	"L" 187+00	"L" 201+00	White	4"	Broken 10'-30'	1400
EDGE LINE	22' Lt.	"L" 187+00	"L" 201+00	White	4"	Solid	1400
EDGE LINE	34' Rt. Varies*	"L" 187+00	"L" 201+00	White	4"	Solid	1400
LANE LINE	46' Rt. Varies*	"L" 187+00	"L" 201+00	White	4"	Broken 10'-30'	1400
EDGE LINE	58' Rt. Varies*	"L" 187+00	"L" 201+00	White	4"	Solid	1400

* Median Taper Sta "L" 186+00 to Sta. "L" 192+00, right side only.

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	80	126



SIGNING

SIGN NO.	STATION	DIST FROM: LT.	DIST FROM: RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS: SIZE	SIGN PANEL THICKNESS: UNFRAMED	SIGN PANEL THICKNESS: FRAMED	AREA FT²	POST: NO. of POSTS	POST: TYPE	POST: SIZE	POST: LENGTH	DIRECTION
1			3	W6-2	SYMBOL	36"x36"	0.100		9.0	1	P	2"	15'	S
2	"L" 205+50		3	XW6-2	DIVIDED HIGHWAY ENDS	24"x18"	0.080		3.0	MOUNT ON ABOVE POST				S
3			66	W6-2	SYMBOL	36"x36"	0.100		9.0	1	P	2"	15'	S
4			66	XW6-2	DIVIDED HIGHWAY ENDS	24"x18"	0.080		3.0	MOUNT ON ABOVE POST				S
5	"L" 207+00	75'		R2-1	SPEED LIMIT 50 35	36"x48"	0.080		12.0	1	P	2"	14'	N
6	"L" 207+00		66	D1-2	← Farmers Loop → ← Fairhill →	144"x42"		0.080	42.00	2	P	2½"	15'	S
7	"L" 208+00	4'		R3-7L	LEFT LANE MUST TURN LEFT	48"x48"	0.125		16.00	1	P	2½"	15'	S
8	"L" 208+00	4'		R4-3	SLOW TRAFFIC KEEP RT.	48"x60"	0.125		20.0	MOUNT ON ABOVE POST				N
9	"L" 212+00	4'		W9-1R	RIGHT LANE ENDS	48"x48"	0.125		16.0	1	P	2½"	13'	S
10			66	W9-1R	RIGHT LANE ENDS	48"x48"	0.125		16.0	1	P	2½"	13'	S
11	"L" 209+90	73'		A8-4	EMERGENCY PARKING ONLY	30"x24"	0.080		5.0	MOUNT ON LIGHT POLE				N
12	209+00		66	W9-2L	LANE ENDS MERGE Lt.	48"x48"	0.125		16.0	1	P	2	14'	S
16	"L" 213+25	4'		R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	11'	E
17	"L" 213+25		66	R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11'	W
18	"L" 213+69	66'		R1-1	STOP	36"x36"	0.080		9.0	1	P	2"	13'	W
19	"L" 213+73	115'		W12-1	SYMBOL	30"x30"	0.080		6.25	1	P	2"	13'	W
20	"L" 213+73	115'		TYPE II	(OBJECT MARKER)	12"x36"	0.080		3.00	MOUNT ON ABOVE POST				W
21	"L" 214+33		85'	R1-1	STOP	36"x36"	0.080		9.0	1	P	2"	14'	E
22	"L" 214+50		143'	R1-1	STOP	24"x24"	0.080		4.0	1	P	2"	12'	N
23	"L" 214+75		4'	R6-1R	ONE WAY →	48"x16"	0.125		5.3	1	P	2"	11'	E
24	"L" 214+75	66'		R6-1L	← ONE WAY	48"x16"	0.125		5.3	1	P	2"	11'	W
25	"FL" 29+50		42'	D1-2	← Fox CITY CTR →	72"x24"		0.080	12.0	2	P	2"	12'	S
					SIGN TOTAL				~~216.45~~ 231.57					

ILLUMINATION

STATION	LOCATION: Lt.	LOCATION: Rt.	TYPE: BASE	MAST ARM: LENGTH	MAST ARM: LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"L" 209+90	73'		Shear	15'	400 Watt	U-1	40'
"L" 211+75	73'		Shear	15'	400 Watt	U-1	40'
① "L" 213+27	126'		Shear	15'	400 Watt	U-1	40'
"L" 214+56		61'	Shear	15'	400 Watt	U-2	40'
"L" 216+40		61'	Shear	15'	400 Watt	U-2	40'

① This Light shall be located so that the Luminaire arm is on a radial to the center of the 170' radius curve.

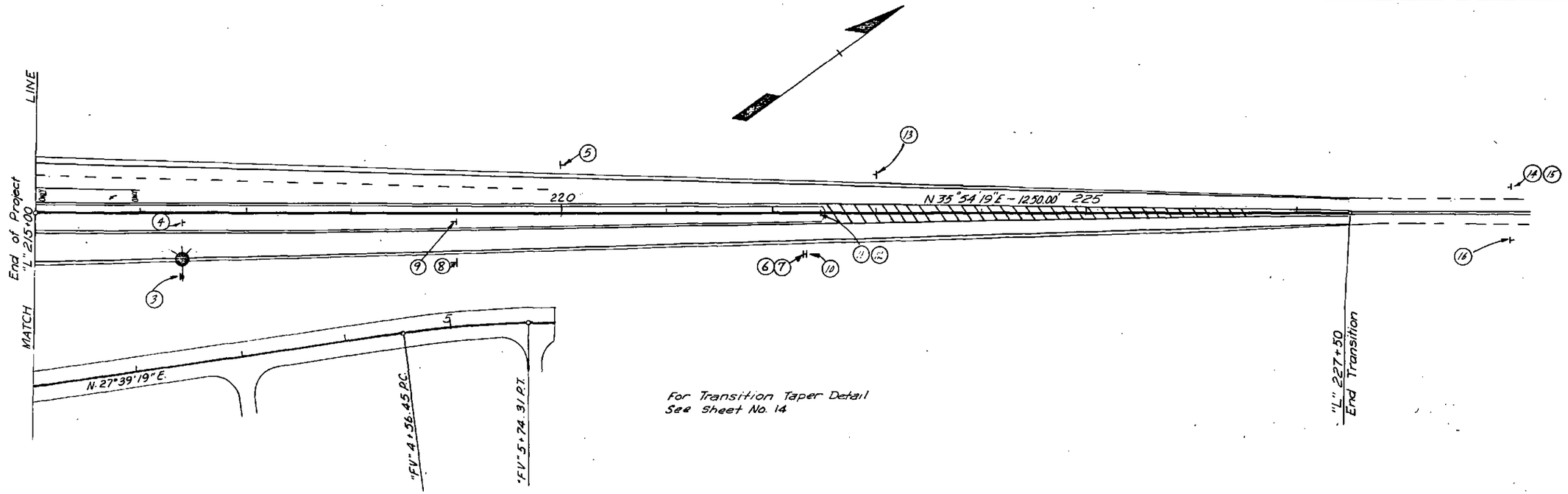
STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	46'-58' Lt	"L" 201+00	"L" 212+10	White	4"	Solid	1110
EDGE LINE	178' Radius	"L" 212+10	"FL" 29+00	White	4"	Solid	270
LANE LINE	34' Lt.	"L" 201+00	"L" 213+75	White	4"	Broken 10'-30'	1275
LANE LINE	46' Lt.	"L" 210+00	"L" 212+10	White	4"	Broken 10'-30'	210
CHANNELIZATION	46' Lt.	"L" 212+10	"L" 213+10	White	See Fig. 1-3B-11.2a A.T.M.		100
EDGE LINE	46' Lt.	"L" 213+10	"L" 213+75	White	4"	Solid	65
EDGE LINE	190' Radius	"L" 213+10	"FL" 30+10	White	4"	Solid	90
CHANNELIZATION	Right	"FL" 29+60	"FL" 30+10	White	See Std. T-20.00		50
EDGE LINE	46' Lt.	"L" 214+70	"L" 215+00	White	4"	Solid	30
EDGE LINE	12' Lt.	"FL" 29+00	"FL" 30+45	White	4"	Solid	145
CENTERLINE	℄	"FL" 29+00	"FL" 30+80	Yellow	4"	Double Solid	180
EDGE LINE	12' Rt.	"FL" 30+10	"FL" 30+75	White	4"	Solid	65
STOP LINE		"FL" 30+80		White	24"	Solid	
EDGE LINE	22' Lt.	"L" 201+00	"L" 213+10	White	4"	Solid	1210
LANE LINE	34' Lt.	"L" 214+70	"L" 215+00	White	4"	Broken 10'-30'	30
AUX. LANE LINE	22' Lt.	"L" 214+70	"L" 215+00	White	8"	Solid	30
↰	Lt.	"L" 214+70	"L" 215+00	White	See Std. T-21.00		30
EDGE LINE	10' Lt.	"L" 214+70	"L" 215+00	White	4"	Solid	30
EDGE LINE	32'-10' Rt.	"L" 201+00	"L" 213+30	White	4"	Solid	1230
AUX. LANE LINE	22' Rt.	"L" 208+00	"L" 213+30	White	8"	Solid	530
↰ ONLY	Rt.	"L" 208+00		White	See Std. T-21.00		
↰ ONLY	Rt.			White	See Std. T-21.00		
↰ ONLY	Rt.		"L" 213+30	White	See Std. T-21.00		
LANE LINE	46'-34' Rt.	"L" 201+00	"L" 213+30	White	4"	Broken 10'-30'	1230
EDGE LINE	22' Rt.	"L" 214+90	"L" 215+00	White	4"	Solid	10
EDGE LINE	58'-46' Rt.	"L" 201+00	"L" 213+45	White	4"	Solid	1245
EDGE LINE	46' Rt.	"L" 214+55	"L" 215+00	White	4"	Solid	45
LANE LINE	34' Rt.	"L" 214+55	"L" 215+00	White	4"	Broken 10'-30'	45

* Note median transition (right lane only) "L" 203+00 to "L" 206+00

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF ALF-062-4(25)	1975	81	125



SIGNING

SIGN NO.	STATION	DIST FROM ℄ LT.	DIST FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
3	"L" 216+40		61	W4-2	SYMBOL	36"x36"	0.10		9.0	Mount on Light Pole				S
4	"L" 216+40		10	W4-2	SYMBOL	36"x36"	0.10		9.0	1	P	2"	15	S
5	220+00	45		D1-2	← Fairhill RD Farmers Loop →	144"x42"		0.08	42.0	2	P	2½"	16	N
6				W6-3	SYMBOL	48"x48"	0.08		16.0					S
7	222+35		40'	XW6-3	TWO WAY TRAFFIC	24"x18"	0.08		3.0	2	P	2"	17	S
8	"L" 219+00		40'	R5-1A	WRONG WAY	42"x30"	0.100		8.75					N
9	"L" 219+00		2	R5-1A	WRONG WAY	42"x30"	0.100		8.75	1	P	2"	13	N
10	"L" 222+35		40	R5-1	DO NOT ENTER	48"x48"	0.125		16.0	1	P	2½"	13	N
11	"L" 222+35		℄	R4-7A	KEEP → RIGHT	36"x48"	0.08		12.0	1	P	2"	13	N
12	"L" 222+35		℄	TYPE I	(OBJECT MARKER)	18"x18"	0.08		2.25	Mount on above Post				N
13	"L" 223+00	40		R2-1	SPEED LIMIT 50 55	36"x48"	0.08		12.0	1	P	2"	13	N
14	"L" 229+00 *	✓		W6-1	SYMBOL	36"x36"	0.10		9.0	1	P	2"	16	N
15	"L" 229+00 *	✓		XW6-1	DIVIDED HIGHWAY	24"x18"	0.08		3.0	Mount on above Post				N
16	"L" 229+00 *		✓	R2-1	SPEED LIMIT 50 55	30"x36"	0.08		7.50	1	P	2"		S
					SIGN TOTAL				~~158.0~~ 158.25					

* Distance to be staked by Engineer.

NOTE: For Illumination Table, see Sheet No. 80

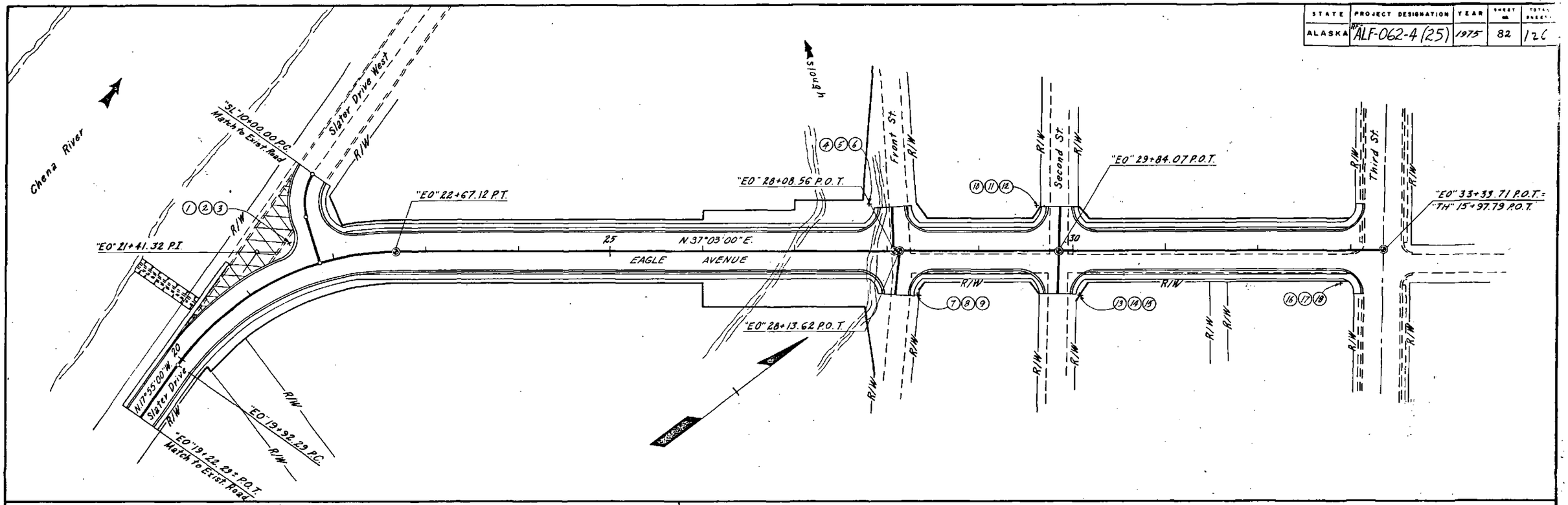
STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
EDGE LINE	46' Lt.*	"L" 215+00	"L" 227+50	White	4"	Solid	1250
LANE LINE	34' Lt.*	"L" 215+00	"L" 220+00	White	4"	Broken 15'/25'	500
Aux. LANE LINE	22' Lt.	"L" 215+00	"L" 216+00	White	8"	Solid	100
EDGE LINE	10' Lt.	"L" 215+00	"L" 222+49	White	4"	Solid	749
EDGE LINE	22' Rt.*	"L" 215+00	"L" 222+49	White	4"	Solid	749
EDGE LINE	46' Rt.*	"L" 215+00	"L" 227+50	White	4"	Solid	1250
CHANNELIZATION	℄	"L" 222+49	"L" 226+50	Yellow	See Std. T-20.00		401
CENTER LINE	℄	"L" 226+50	"L" 231+75	Yellow	4"	Double Solid	525
ONLY	Lt.	"L" 215+81	"L" 216+00	White	See Std. T-21.00		
ONLY	Lt.	"L" 215+00		White	See Std. T-21.00		

*Offset varies as directed by Engineer.

SIGNING – ILLUMINATION & STRIPING

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP ALF-062-4(25)	1975	82	126



SIGNING

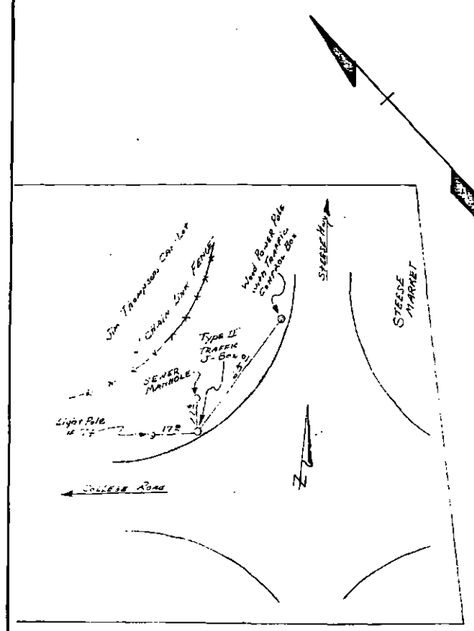
SIGN NO	STATION	DIST FROM ℄ LT.	DIST FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA Ft²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1				R1-1	STOP	24"x24"	0.080		4.0	1	P	2"	8'	W
2	"EO" 21+60	30		D3-1	EAGLE AV	30"x8"	0.080		1.67	Mount on Above Post				E/W
3				D3-1	W SLATER DR	42"x8"	0.100		2.33	Mount on Above Post				N/S
4				R1-1	STOP	24"x24"	0.080		4.0	1	P	2"	8'	W
5	"EO" 27+80	50		D3-1	EAGLE AV	30"x8"	0.080		1.67	Mount on Above Post				E/W
6				D3-1	FRONT ST	30"x8"	0.080		1.67	Mount on Above Post				N/S
7				R1-1	STOP	24"x24"	0.080		4.0	1	P	2"	8'	E
8	"EO" 28+30		50	D3-1	EAGLE AV	Relocate Existing Sign ①				Mount on Above Post				E/W
9				D3-1	FRONT ST	Relocate Existing Sign ①				Mount on Above Post				N/S
10				R1-1	STOP	24"x24"	0.080		4.0	1	P	2"	8'	W
11	"EO" 29+65	50		D3-1	EAGLE AV	30"x8"	0.080		1.67	Mount on Above Post				E/W
12				D3-1	2ND ST	24"x8"	0.080		1.33	Mount on Above Post				N/S
13				R1-1	STOP	24"x24"	0.080		4.0	1	P	2	8'	W
14	"EO" 30+05		50	D3-1	EAGLE AV	Relocate Existing Sign ①				Mount on Above Post				E/W
15				D3-1	SECOND ST	Relocate Existing Sign ①				Mount on Above Post				N/S
16				R1-1	STOP	Relocate Existing Sign ①				Relocate Existing Post ①				E
17	"EO" 32+90		30	D3-1	EAGLE AV	Relocate Existing Sign ①				Mount on Above Post				E/W
18				D3-1	THIRD ST	Relocate Existing Sign ①				Mount on Above Post				N/S
						SIGN TOTAL			30.34					

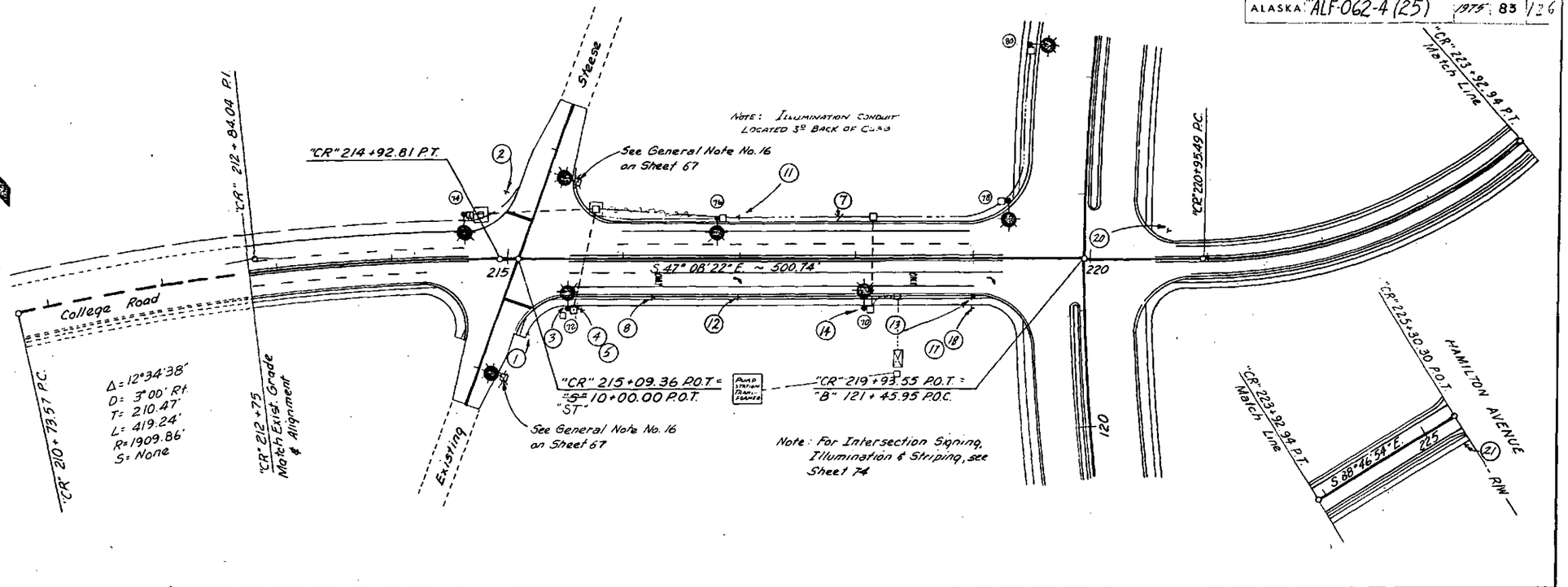
① Payment shall be incidental to Pay Item 615(1)

NOTE: There is no Illumination & Striping on this Sheet.

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	FAP ALF-062-4(25)	1975	83	126





SIGNING

SIGN NO.	STATION	DIST. FROM ℄ Lt.	Rt.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA FT.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
~~1~~	~~"S" 9+40~~		~~30~~	~~R1-1~~	~~STOP~~ DELETED	~~30"x30"~~	~~0.090~~	EWO #29	~~6.25~~	~~1~~	~~P~~	~~2"~~	~~10~~	~~S~~
~~2~~	~~"S" 10+50~~	~~30~~		~~R1-1~~	~~STOP~~ DELETED	~~30"x30"~~	~~0.080~~	EWO #29	~~6.25~~	~~1~~	~~P~~	~~2"~~	~~10~~	~~N~~
3	"CR" 215+54		41	D11-1	BIKE ROUTE	24"x18"	0.080		3.00	MOUNT ON LIGHT POLE				W
4	"CR" 215+54		41	XD11-1	END	24"x6"	0.080		1.00	MOUNT ON LIGHT POLE				E
5	"CR" 215+54		41	D11-1	BIKE ROUTE	24"x18"	0.080		3.00	MOUNT ON LIGHT POLE				E
7	"CR" 218+00	34		R7-1RL	NO PKG ⟷	12"x18"	0.080		1.50	1	P	2"	9	S
8	"CR" 216+25		34.5	R3-7R	Rt. LANE MUST TURN Rt.	36"x36"	0.080		9.00	1	P	2"	10	W
9	"CR" 217+00		34.5	M1-1	ALASKA 2	30"x30"	0.080		6.25	1	P	2"	10	W
10	"CR" 217+00		34.5	M6-4	⟷	21"x13"	0.080		2.20	MOUNT ON LIGHT POLE				W
11	"CR" 217+00	34		D2-1	Univ. Of Alaska 4	132"x24"		0.080	22.00	2	P	2"	12	E
12	"CR" 218+15		47	D1-2	← Fox City Center →	72"x24"		0.080	12.00	2	P	2"	12	W
13	"CR" 219+00		34.5	R3-7R	Rt. LANE MUST TURN Rt.	36"x36"	0.080		9.00	1	P	2"	10	W
14	"CR" 218+06		47.5	R1-1RL	NO PKG ⟷	12x18	0.080		1.50	MOUNT ON LIGHT POLE				
17	"CR" 219+00		42	D11-1	BIKE ROUTE	24"x18"	0.080		3.00	1	P	2"	8'	W
18	"CR" 219+00		42	XD11-1	→	24"x6"	0.080		1.00	MOUNT ON ABOVE POLE				W
20	"CR" 220+65	25		D3-1	5TH St	24"x8"	0.080		1.33	1	P	2"	8'	N/S
21	"CR" 225+30 *		✓	R1-1	STOP	24"x24"	0.080		4.00	1	P	2"	8	E
	"CR" 224+00		26	R5-2	⊘	24"x24"			4.00					
	"CR" 224+00		26	R4-7	LOCAL TRUCKS ONLY	18"x24"			3.00					

* Distance to be staked by Engineer.

SIGN TOTAL 92.28 ~~92.28~~ 86.77

ILLUMINATION

STATION	LOCATION Lt.	Rt.	TYPE BASE	MAST ARM LENGTH	LUMINAIRE	CIRCUIT	MOUNTING HEIGHT
"CR" 214+62	39		Shear	15'	400 Watt	T-5 C-1	40'
"CR" 215+54		41.5	Flange	15'	400 Watt	T-5 C-1	40'
"CR" 216+80	35.5		Shear	12'	400 Watt	T-5 C-1	40'
"CR" 218+06		41.5	Flange	15'	400 Watt	T-5	40'
① "CR" 219+32	49		Signal	15'	400 Watt	T-5	40'

① Mounted on Signal Standard.

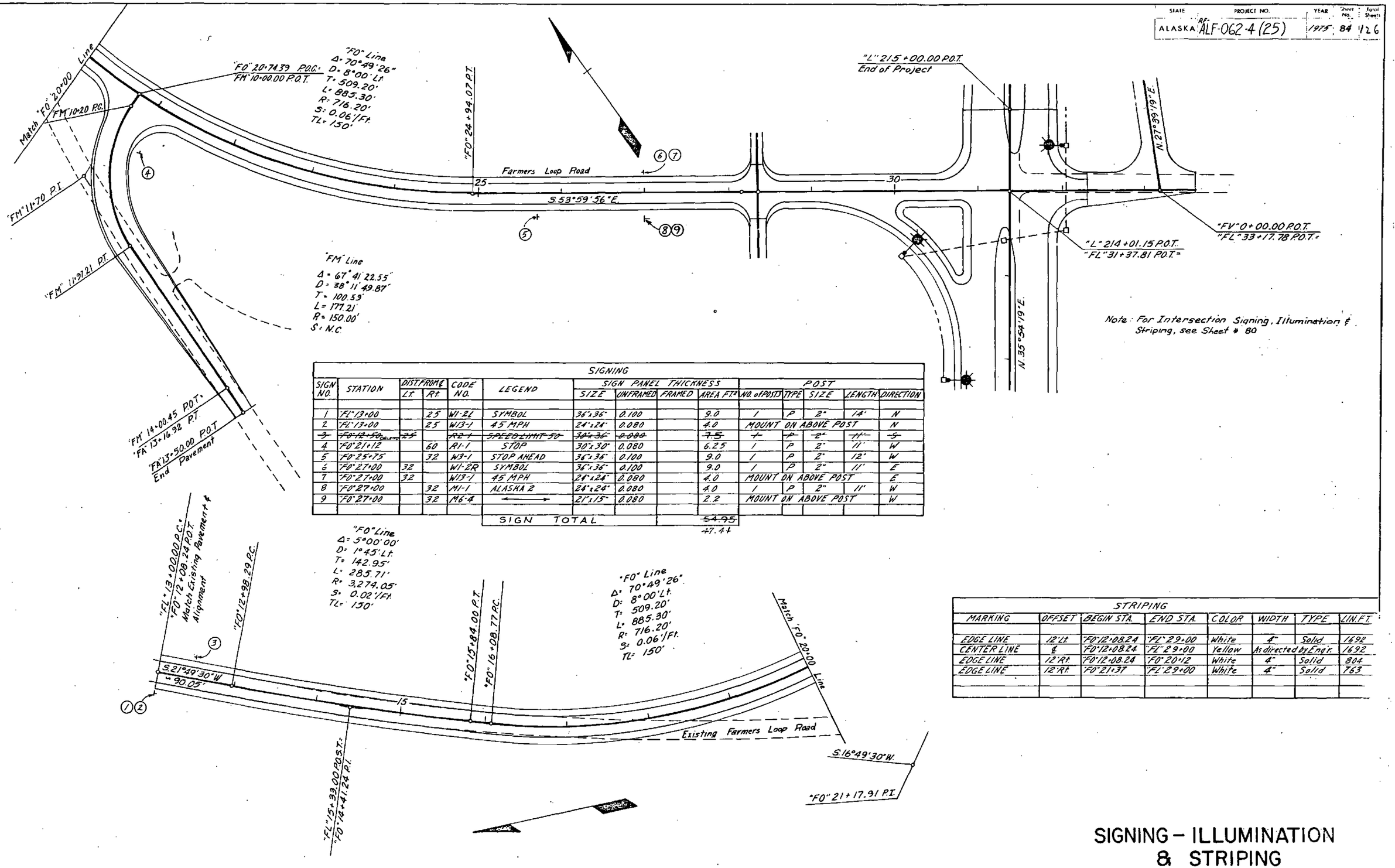
Ⓡ NOTE: POLE NUMBERS ESTABLISHED IN FIELD FOR SIGNAL & ILLUMINATION. POLE NUMBERS LISTED IN BLUE & RED.

STRIPING

MARKING	OFFSET	BEGIN STATION	END STATION	COLOR	WIDTH	TYPE	LIN. FT.
CENTERLINE	℄	"CR" 212+75	"CR" 214+65	YELLOW	4"	DOUBLE SOLID	190'
CENTERLINE	℄	"CR" 215+55	"CR" 219+25	YELLOW	4"	DOUBLE SOLID	370'
EDGE LINE	20' Lt.	"CR" 212+75	"CR" 214+60	WHITE	4"	SOLID	185'
EDGE LINE	24' Lt.	"CR" 215+90	"CR" 218+95	WHITE	4"	SOLID	305'
LANE LINE 9/15	10' Lt.	"CR" 212+75	"CR" 214+60	WHITE	4"	BROKEN	185'
LANE LINE 9/15	10' Rt.	CR 212+75	"CR" 214+28	WHITE	4"	BROKEN	153'
LANE LINE 9/15	12' Rt.	"CR" 215+55	"CR" 216+25	WHITE	4"	BROKEN	70'
EDGE LINE	20' Rt.	"CR" 212+75	"CR" 214+28	WHITE	4"	SOLID	153'
EDGE LINE	24' Rt.	"CR" 215+55	"CR" 219+00	WHITE	4"	SOLID	345'
CENTERLINE	℄	"S" 8+68	"S" 9+50	YELLOW	4"	DOUBLE SOLID	82'
CENTERLINE	℄	"S" 10+50	"S" 11+45	YELLOW	4"	DOUBLE SOLID	93'
STOP LINE	Rt.	"S" 9+65		WHITE	24"	SOLID	-
↱ ONLY	Rt.	"CR" 216+25		WHITE	See Std. T-21.00		
↱ ONLY	Rt.			WHITE	See Std. T-21.00		
↱ ONLY	Rt.		"CR" 219+25	WHITE	See Std. T-21.00		
LANE LINE	12' Rt.	"CR" 216+25	"CR" 219+25	WHITE	4"	SOLID	300'
EDGE LINE	12' Lt.	CR 220+73	"CR" 225+30	WHITE	4"	SOLID	457'
CENTERLINE	℄	"CR" 220+53	"CR" 225+30	YELLOW	4"	DOUBLE SOLID	477'
EDGE LINE	12' Rt.	"CR" 220+89	"CR" 225+30	WHITE	4"	SOLID	441'
STOP LINE	Lt.	"S" 10+55		WHITE	24"	SOLID	

SIGNING - ILLUMINATION & STRIPING

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	ALF-062-4(25)	1975	84	126



Note: For Intersection Signing, Illumination & Striping, see Sheet # 80

SIGNING

SIGN NO.	STATION	DIST FROM ℄ Lt.	DIST FROM ℄ Rt.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA Ft.²	POST NO. of POSTS	TYPE	SIZE	LENGTH	DIRECTION
1	"FL" 13+00		25	W1-2L	SYMBOL	36"x36"	0.100		9.0	1	P	2"	14'	N
2	"FL" 13+00		25	W13-1	45 MPH	24"x24"	0.080		4.0	MOUNT ON ABOVE POST				N
~~3~~	~~"FO" 12+58~~ Deleted	~~25~~		~~R2-1~~	~~SPEED LIMIT 50~~	~~30"x36"~~	~~0.080~~		~~7.5~~	~~1~~	~~P~~	~~2"~~	~~11'~~	~~S~~
4	"FO" 21+12		60	R1-1	STOP	30"x30"	0.080		6.25	1	P	2"	11'	W
5	"FO" 25+75		32	W3-1	STOP AHEAD	36"x36"	0.100		9.0	1	P	2"	12'	W
6	"FO" 27+00	32		W1-2R	SYMBOL	36"x36"	0.100		9.0	1	P	2"	11'	E
7	"FO" 27+00	32		W13-1	45 MPH	24"x24"	0.080		4.0	MOUNT ON ABOVE POST				E
8	"FO" 27+00		32	M1-1	ALASKA 2	24"x24"	0.080		4.0	1	P	2"	11'	W
9	"FO" 27+00		32	M6-4	⟶	21"x15"	0.080		2.2	MOUNT ON ABOVE POST				W
					SIGN TOTAL				~~54.95~~ 47.44					

STRIPING

MARKING	OFFSET	BEGIN STA.	END STA.	COLOR	WIDTH	TYPE	LIN.FT.
EDGE LINE	12' Lt.	"FO" 12+08.24	"FL" 29+00	White	4"	Solid	1692
CENTER LINE	℄	"FO" 12+08.24	"FL" 29+00	Yellow	As directed by Eng'r.		1692
EDGE LINE	12' Rt.	"FO" 12+08.24	"FO" 20+12	White	4"	Solid	804
EDGE LINE	12' Rt.	"FO" 21+37	"FL" 29+00	White	4"	Solid	763

SIGNING – ILLUMINATION & STRIPING

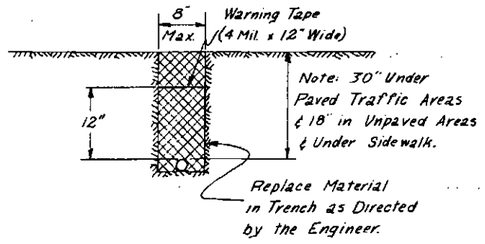
W.S.E. - 2/14/72 - Revised Alignment of "FO" Line

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	85	1[illegible]

General Interconnect Notes

1. Interconnect cable shall be 18 pair #18 AWG as shown.
2. All underground interconnect cable shall be placed in new 2" rigid metallic conduit under roadways and 2" rigid non-metalic conduit in other areas. All conduit above ground shall be rigid metallic.
3. Interconnect cable and conduit may enter existing junction boxes for roadway crossings.
4. Interconnect cable shall not be placed in street lighting conduit.
5. Interconnect routing may be adjusted by the Engineer.
6. Locate all underground utilities before excavation.
7. Conduit trenches shall not be left open overnight.
8. The Contractor shall replace "In Type" all surface materials removed for conduit placement.
9. When necessary to trench across roadways, the Contractor shall replace materials for typical road section both as to material and density.
10. A terminal board shall be provided in each interconnected controller cabinet for terminating the interconnect cable.
11. Each interconnect cable shall be easily identifiable at all junction boxes or termination points.
12. Interconnect conduit may be placed in common trenches with illumination & signal when applicable. Junction boxes on common routing shall be joint use. New Type I junction boxes shall be installed as required in other locations. Interconnect cable parallels lighting circuits but does not go through street light cases.
13. The existing active interconnect cable (University to Cowle St) shall be spliced to the existing inactive interconnect cable (Cowles St to Richardson Highway). The active interconnect cable shall be de-activated when splicing occurs.

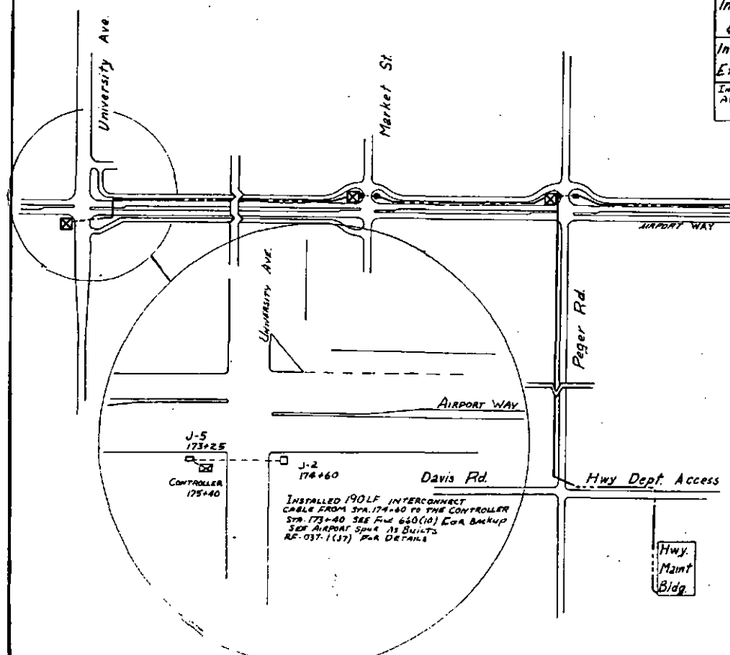
Interconnect Cable Required in Addition to that Shown on Signal Conductor Schedules		Conduit Required in Addition to that Shown on Signal Conductor Schedules	
type	Linear Ft. Approx.	type	Linear Ft. Approx.
18 pair #18 AWG.	~~7,500~~ 7,340	2" RMC or PVC (See Note "2)	~~6,900~~ 6,696

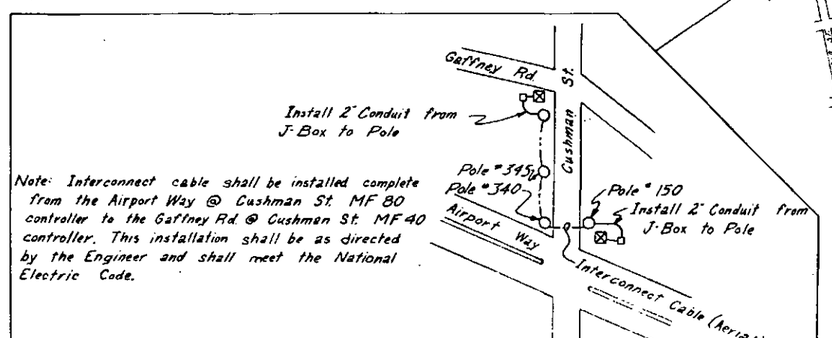


Interconnect Conduit Installation

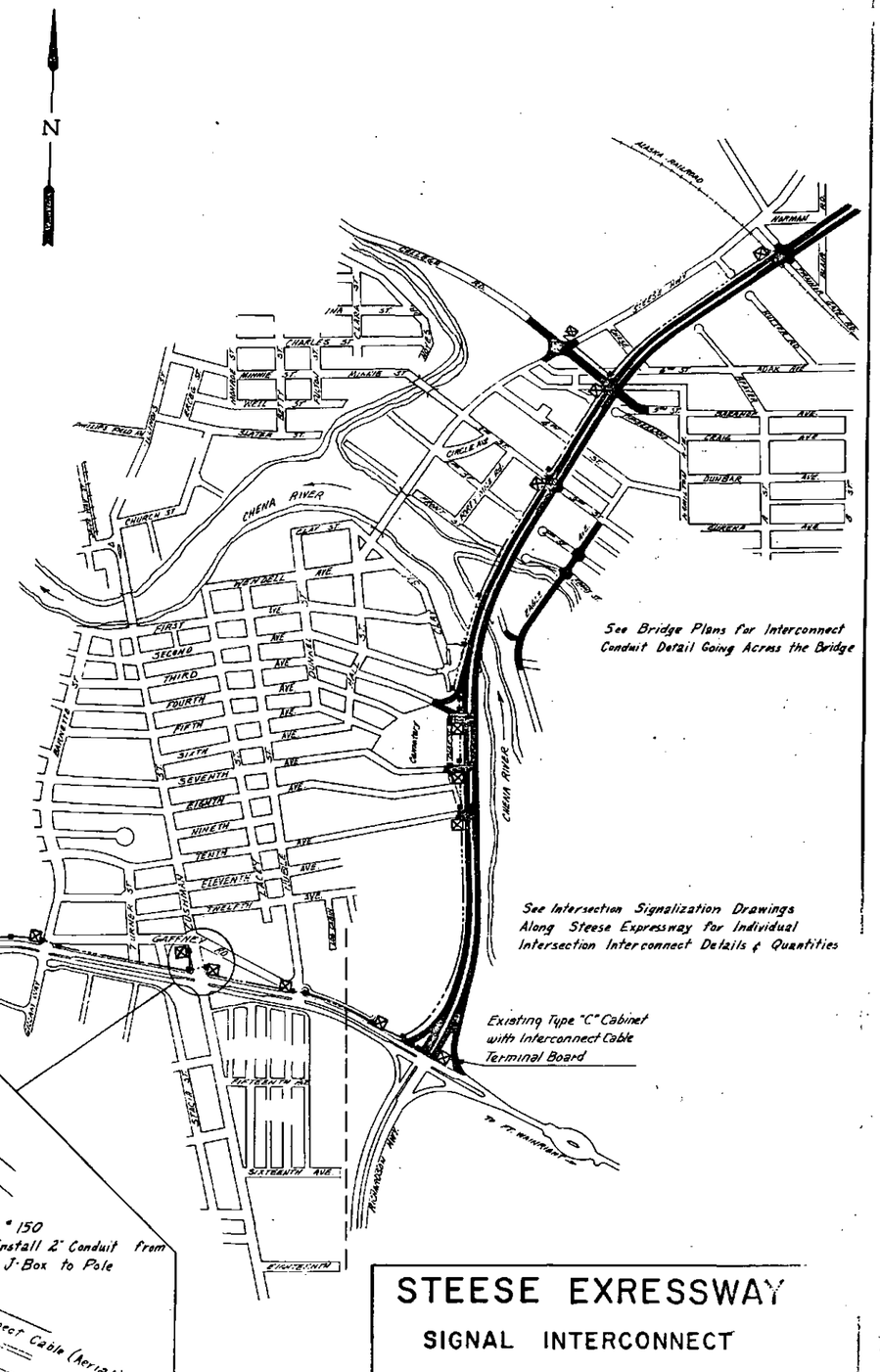
Summary of Existing Interconnect		
Origin	Destination	Description
Hwy. Maint. Bldg.	Hwy. Dept. Access	18 Pr. #19 AWG in RMC
Hwy. Dept Access	Airport Way	18 Pr. #19 AWG Aerial
University Ave.	Barnette	25 Pr. #19 AWG Direct Burial
Barnette	Richardson Highway	18 Pr. #19 AWG in 2" RMC

Summary of New Interconnect		
Origin	Destination	Description
Intersection Airport Way & Cushman	Intersection Gafney & Cushman	18 Pr. #19 AWG Aerial
Intersection Steese Expressway & Airport Way	Intersection Steese Expressway & Trainor Gate	18 Pr. #19 AWG in 2" Conduit & 2" RMC
Intersection Airport Way & University Ave. Sta "L" 174+60	Controller, Intersection Airport Way & University Sta 173+40	18 pr. Cable in Existing 2" Conduit Installed Under Previous Contract See Item 660(11) For Backup





Note: Interconnect cable shall be installed complete from the Airport Way @ Cushman St. MF 80 controller to the Gafney Rd @ Cushman St. MF 40 controller. This installation shall be as directed by the Engineer and shall meet the National Electric Code.



See Bridge Plans for Interconnect Conduit Detail Going Across the Bridge

See Intersection Signalization Drawings Along Steese Expressway for Individual Intersection Interconnect Details & Quantities

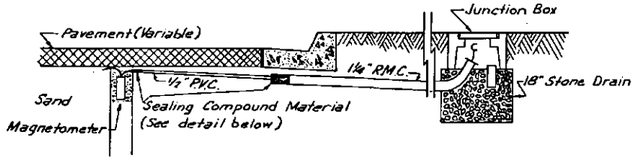
Existing Type "C" Cabinet with Interconnect Cable Terminal Board

STEESE EXRESSWAY

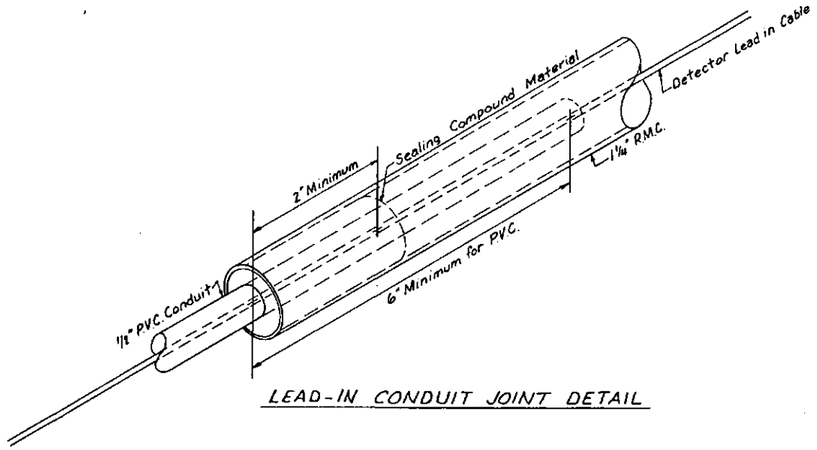
SIGNAL INTERCONNECT

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	86	126

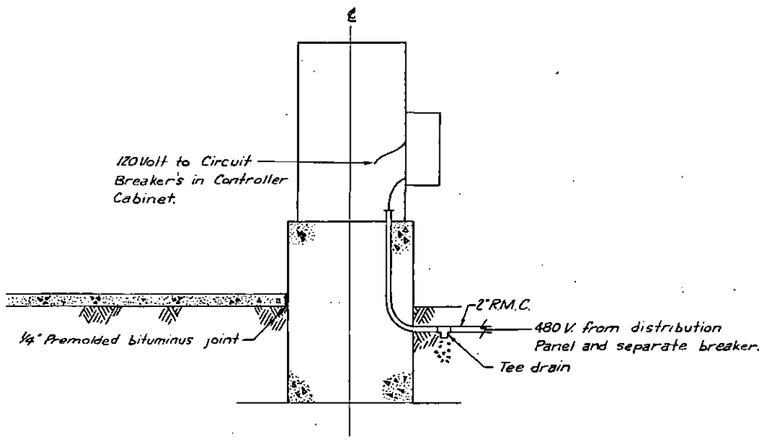
Note: Shaded Areas to be plugged with a Sealing Compound Material. The Sealing Compound Material shall extend at least 2" into the conduit.



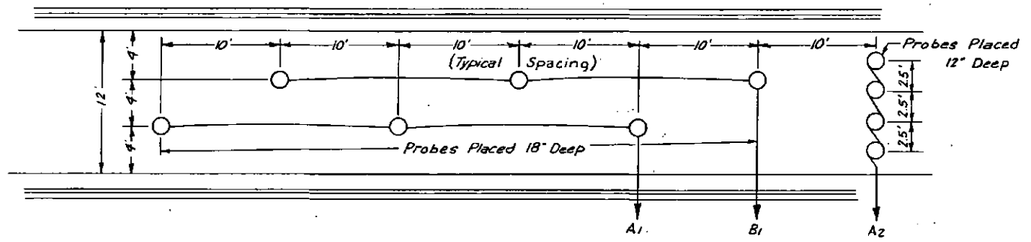
MAGNETOMETER LEAD-IN CONDUIT DETAIL



LEAD-IN CONDUIT JOINT DETAIL



STEP DOWN TRANSFORMER DETAIL



PRESENCE DETECTOR DETAIL

Stationing Shown On Plan Sheets Are Based On The Location Of The Front Four (4) Probes.

GENERAL SIGNALIZATION NOTES

1. The Controller housing shall be equipped with a Cabinet heating device.
2. The following Auxiliary Equipment shall be furnished:
   a) Flasher and flasher relay.
   g) Test switches
   h) Solid-State switching devices.
   i) Police panel switches.
3. Quantities and Locations are approximate only, Final location shall be as directed by the Engineer.
4. All vehicular signals shall be equipped with Tunnel Visors and Backplates.
5. Type I junction boxes shall be on brick base above a stone drain of 18" minimum depth.
6. No detectors shall be installed in the existing pavements such that any wire in the street will have to cross on existing pavement breaks.
7. All existing underground utilities should be located before any conduit trenching or signal foundation work begins.
8. The lead-in cable from the magnetometer to the adjacent junction box shall be placed in ½" Rigid P.V.C. Conduit. (See Detail on This Sheet)
9. One spare 3" Rigid Metal Conduit shall be provided in each type D Signal Controller Foundation.
10. Conductor quantities shown on the individual intersection summary sheets do not include Conductor quantities in the Signal Poles and Mast Arms.
11. The sign size for the Pedestrian Push Buttons as shown on standard drawing T-30.00 should read 9"x7". The cost of the signs shall be considered incidental to item 660(1) Traffic Signal System Complete.
12. The design wind load for traffic signal poles shall be 100 m.p.h.

Addendum No. 4.

SIGNALIZATION DETAILS

STATE	PROJECT DESIGNATION			
ALASKA	AF-ALF-062-925	1975	87	126

"NW" 66+41.17 P.C.

Splice into existing 19 pair, 19 AWG interconnect cable. At this point existing junction box is a Type 2 Box.

A Type 2 Box was installed under E.W.O. #38 on this contract.

"NW" 68+60.10 P.T. 153' L.T. "B" 69+37.67 P.C.C.

Interconnect cable in 2" conduit to 3' Back of curb.

Type 2 E.W.O. #26

To Airport

Interconnect cable in 2" conduit (Existing)

N 29°19'31" E

To Fort Wainwright

Existing 14" R.M.C.

N 15°37'28" E

"NE" 180+16.94 P.C.

"NE" 182+02.79 P.T.

NOTE: J- BOXES FOR INTERCONNECT BETWEEN GAFFNEY & 10TH AVE, LOCATED AS FOLLOWS: "NW" 68+10±, 9' FROM POLE #10, 4' BACK OF CURB; "NW" 69+72±, 7' FROM POLE #12, 5' BACK OF CURB; "B" 78+06±, 73' FROM POLE #18, 4' BACK OF CURB; "B" 81+56±, 109' FROM POLE #22, 5' BACK OF CURB; "B" 74+77 5' FROM POLE #16, 4' BACK OF CURB.

Note: For signalization tables see sheet 88

SIGNALIZATION

GAFFNEY ROAD INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	88	126

SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
ALL SIGNAL POLES FOR THIS INTERSECTION ARE EXISTING POLES & ARE ALREADY INSTALLED									

JUNCTION BOX SCHEDULE

NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	Existing						
2							
3							
4	I	"B" 67+43	6' Rt.				
5	I	"B" 70+20	6' Rt.				
	II	"NW" 66+50	21' Lt.				
	I	"NW" 66+50	14 Rt.				

SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
ALL SIGNAL HEADS THIS INTERSECTION ARE EXISTING AND IN PLACE				

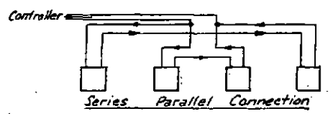
DETECTOR SCHEDULE

POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH-BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
"B" 67+20	1	B,		6x6	3		
"B" 67+35	2	B,		6x6	3		
"B" 67+50	3	B,		6x6	3		
"B" 67+65	4	B,		6x6	3		
"B" 70+20	5,6	B,				2	2-2 Probe Sets Advance
"L" 180+55				6x6	3		2 Ea. Loops Gaffney Road
"L" 182+00				6x6	3		2 Ea. Loops Gaffney Road
"L" 66+08				6x6	3		2 Ea. Loops Richardson Hwy.

CABLE & CONDUIT QUANTITIES

CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
1c# 12	Detector Lead-in, Loop	~~170~~
4c# 22	Detector Lead-in, Mag	~~130~~
	Lump Sum All Req'd.	

CONDUIT SIZE	DESCRIPTION	LIN. FT.
½"	Rigid PVC Conduit	30
1¼"	Rigid Metal Conduit	10
1½"	Rigid PVC Conduit	290
2"	Rigid Metal Conduit	80
	Lump Sum All Req'd.	



LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Red
Airport Way	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. VD.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
					2 Mag.		
					1 Loop		
SEE SPECIAL PROVISIONS							

POWER SUPPLY

LOCATION APPROACH	LOCATION STATION	LOCATION SIDE	ASSEMBLY	SERVICE POLE	REMARKS
Existing Power Supply for This Controller Will be Used					

See Special Provisions

PHASE SEQUENCE

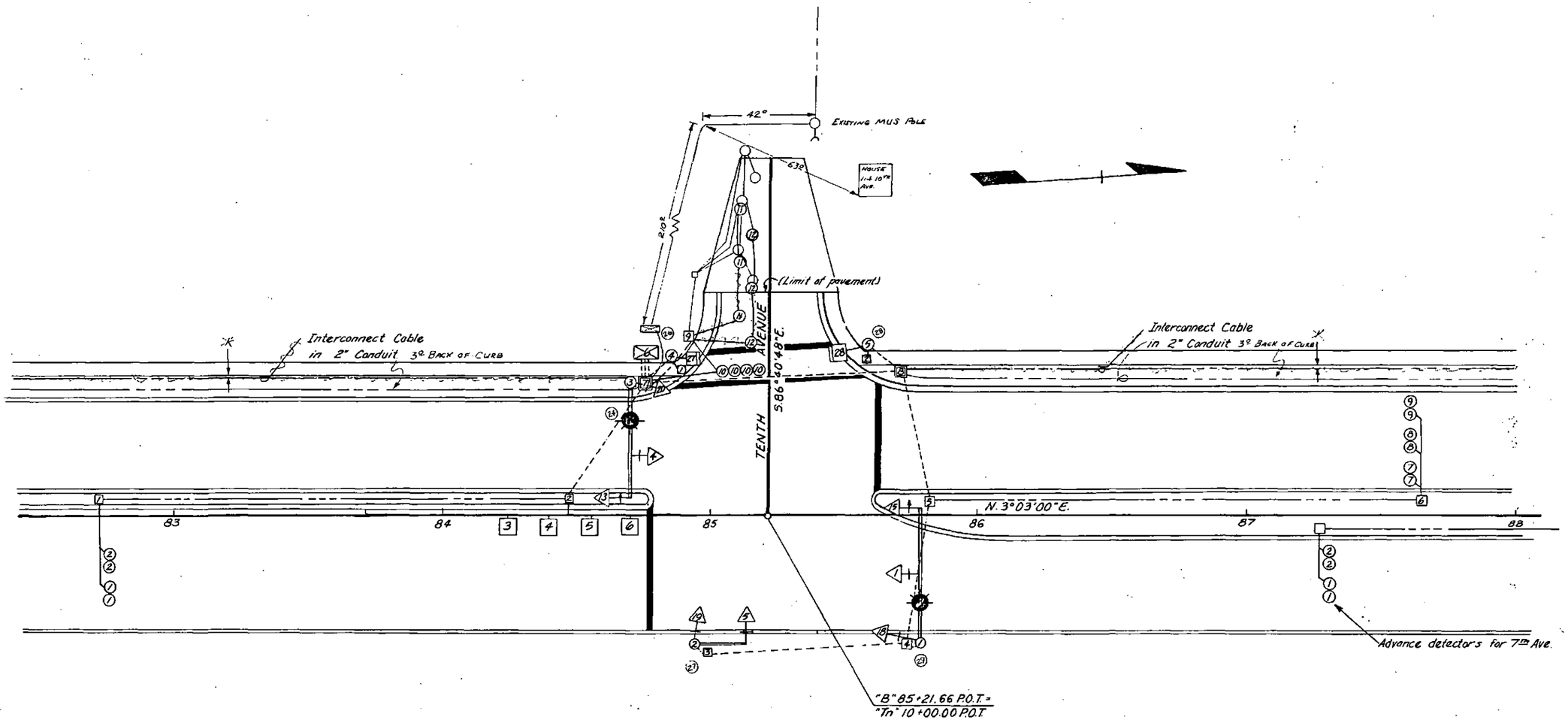
INTERSECTION NOTES

1. If Any of the Existing Loop Detectors Are Not Functioning At the Time This Contract's Signal Work is Going on, They Shall be Re-installed as Directed by the Engineer, This Work Shall be Considered Incidental to Item 660(3).
   Note: A) Left Turn Loops Shall be Replaced by 4-6x6 Loops (See Detail this Sheet)
   B) Advance & Stop Line Shall be Replaced by a 6x6 Loop in Each Lane of Travel.
2. A New 75 KVA Dry 480/240/120 Step Down Transformer and a Weatherproof Metal Cabinet Shall be Furnished and Will Replace Existing 5 KVA Transformer.
3. For Intersection Details See Sheet 87.

SIGNALIZATION

GAFFNEY ROAD INTERSECTION

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	89	126



Note: For signalization tables, see sheet 90

SIGNALIZATION
TENTH AVENUE INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	90	126

SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
1	"B" 85+78	47.5 Rt.	B	CIDH	15'	50	24'		
2	"B" 84+94	47.5 Rt.	B	CIDH				20'	Alternate Mast Arm
3	"B" 84+70	50' Lt.	B	CIDH	15'	44'	16'		
4	"B" 84+85	58' Lt.	A	A					
5	"B" 85+58	62' Lt.	A	A					
6	"B" 84+75	59' Lt.	Type D Controller Foundation						

JUNCTION BOX SCHEDULE

NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	1	"B" 82+75	6' Lt.				
2	1	"B" 84+47	6' Lt.				
3	1	"B" 85+00	48' Rt.				
4	1	"B" 85+70	48' Rt.				
5	1	"B" 85+80	6' Lt.				
6	1	"B" 87+60	6' Lt.				
7	2	"B" 84+75	51' Lt.				
8	2	"B" 85+75	55' Lt.				
9	1	"TR" 10+65	30' Lt.				

SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
1	1	12"	Plumbizer	R-Y-G
15		12"	Plumbizer	R-Y-GLTA
18		8"	S-1	R-Y-G
5	2	12"	Plumbizer	R-Y-G
19		8"	S-1	R-Y-G
4	3	12"	Plumbizer	R-Y-G
13		12"	Plumbizer	R-Y-GLTA
20		8"	S-1	R-Y-G
27	4	Ped W-DW	TW-1	
28	5	Ped W-DW	TW-1	

DETECTOR SCHEDULE

POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
4	P.1	A_1	1				
5	P.2	A_1	1				
"B" 82+75	1,2	A_2				2	2-2 probe sets } Advance
"B" 84+25	3	B_1		6x6	3		
"B" 84+40	4	B_1		6x6	3		
"B" 84+55	5	B_1		6x6	3		
"B" 84+70	6	B_1		6x6	3		
"B" 87+60	7,8,9	A_1				3	3-2 probe sets } Advance
"TN"	10	B_3				1	1-4 probe set)
① ~~"TR" 10+54~~	11	B_3				1	~~+3 probe set~~) Presence
	12	B_3				1	~~+3 probe set~~)

NOTE: Detectors No. 11 & 12 Replaced with 8 set of 2 as per E.W.O. # 36.

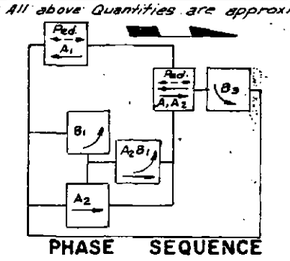
① See Sheet No. 86 for Details.

CABLE & CONDUIT QUANTITIES

CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4c # 22	Detector Lead-in	1715'
3c # 14	Signal, Pedestrian	230'
5c # 14	Signal, Vehicular	1600'
2c # 12	Push-Button Detector	230'
1c # 12	Detector, Lead-in (Loop)	105'
18 pr # 18	Interconnect Cable	130'
	Lump Sum All Read.	

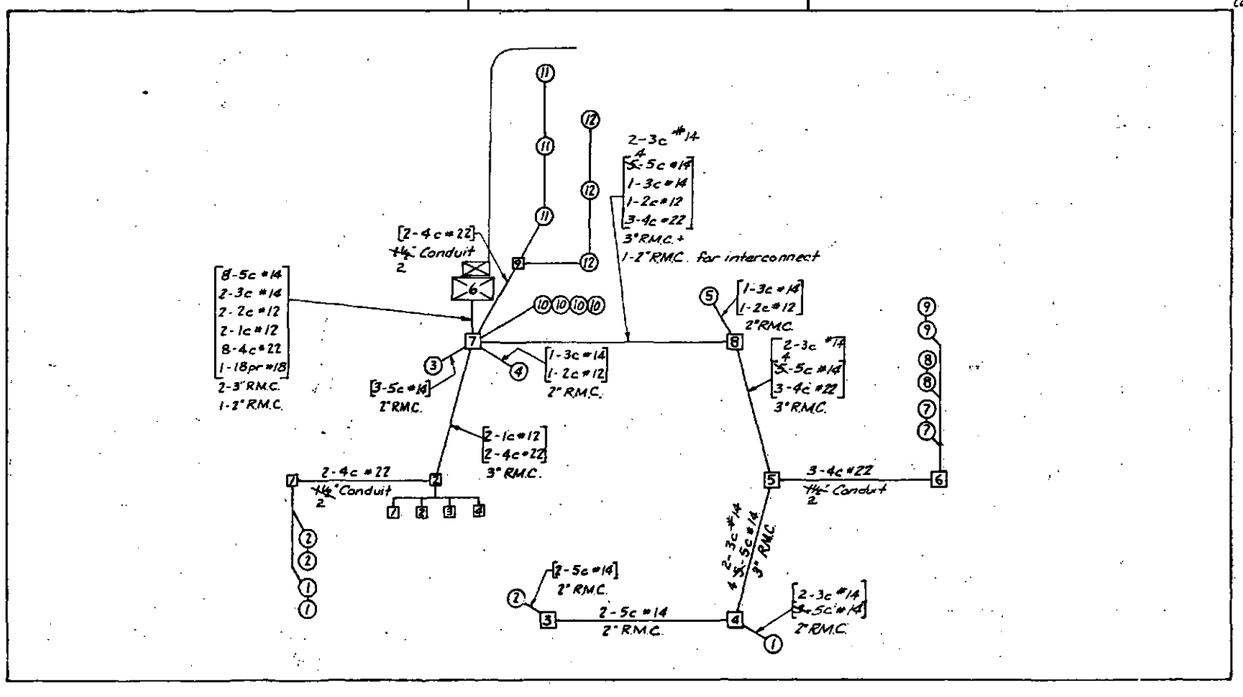
CONDUIT SIZE	DESCRIPTION	LIN. FT.
1/2"	Rigid P.V.C. Conduit	90'
1 1/4"	Rigid Metal Conduit	40'
1 1/2"	Rigid P.V.C. Conduit	215'
2"	Rigid Metal Conduit	290'
3"	Rigid Metal Conduit	310'
	Lump Sum All Read.	

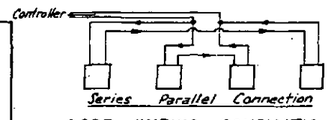
Note: All above Quantities are approximate



PHASE SEQUENCE

WIRING DIAGRAM





LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Amber
10th Avenue & Left Turn	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVO.	Ø MOD. VO.	Ø MOD. VOP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-4B	2	1	1	8-MAG	30 Amp Main Cabinet	
					1-Loop	20 Amp Access	

POWER SUPPLY

LOCATION			ASSEMBLY	SERVICE POLE	REMARKS
APPROACH	STATION	SIDE			
Load Center "M" shall be located at approximately "B" 84+80± on the left. A service pole, motor base & associated conduit will be required. The Load Center shall provide 120/240 volt service and have a 100 amp main breaker.					
Existing Pole	Estimated	Need For Service Pole		Service Point	Meter on
L.O. Fics. E.W.O. # 30					

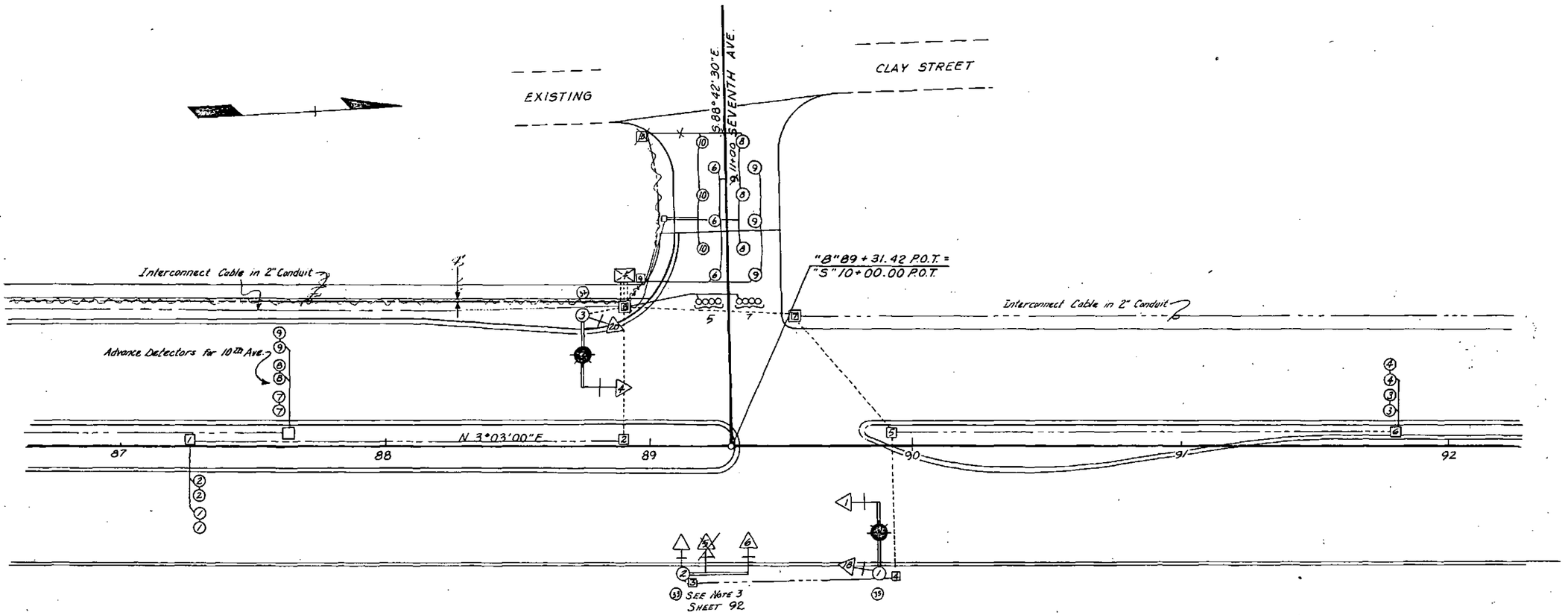
INTERSECTION NOTES

1. Pedestrian Push Buttons shall include a 9"x7" porcelain enamel signs (1 right arrow and 1 left arrow) as shown on standard drawing T-30.00 without indicator lights.
2. For intersection details see sheet 89.

SIGNALIZATION

TENTH AVENUE INTERSECTIC

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	AF-ALF-062-4(25)	1975	91	126



Note: For Signalization tables see sheet 92

SIGNALIZATION
SEVENTH AVENUE INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-082-4(25)	1975	92	126

SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
1	"B" 89+87.97	47.5 Rt	B	CIDH	15			27	
2 ①	"B" 89+13	47.5 Rt	B	CIDH				24	ALTERNATE MAST ARM
3	"B" 88+74	49 Lt.	B	CIDH	15			27	
4	"B" 88+90	63 Lt.	Type D Controller Base						

① Signal Head 5 is located 15' from Signal Head 6 on the Mast Arm. The Arm on Signal Pole 2 shall be located so that it is parallel to the Expressway.

JUNCTION BOX SCHEDULE

NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	1	"B" 87+30	2' Lt.				
2	1	"B" 88+90	2' Lt.				
3	1	"B" 89+20	48' Rt.				
4	1	"B" 89+92	48' Rt.				
5	1	"B" 89+92	6' Lt.				
6	1	"B" 91+80	6' Lt.				
7	2	"B" 89+55	50' Lt.				
8	2	"B" 88+90	53' Lt.				
9	1	"S" 10+62	33' Lt.				
10	1	"S" 44+50.85	30' Lt.	28' Lt.			

SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
1	1	12"	Plumbizer	R-Y-G
18		8"	S-1	R-Y-G
5	2	~~12"~~ 8"	~~Plumbizer~~ S-1	R-Y-G
6		12"	Plumbizer	R-Y-G
4	3	12"	Plumbizer	R-Y-G
20		8"	S-1	R-Y-G

DETECTOR SCHEDULE

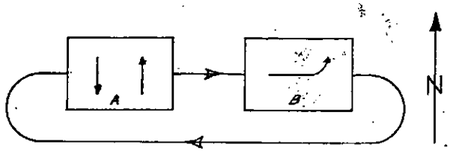
POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
"B" 87+30	1,2	A				2	2-2 Probe Sets, Advance
"B" 91+80	3,4	A				2	2-2 Probe Sets, Advance
	5,7	B				2	2-4 Probe Sets, Presence
② "S" 10+54	6,9	B				2	2-3 Probe Sets, Presence
	8,10	B				2	2-3 Probe Sets, Presence

② See Sheet No. 86 for Details

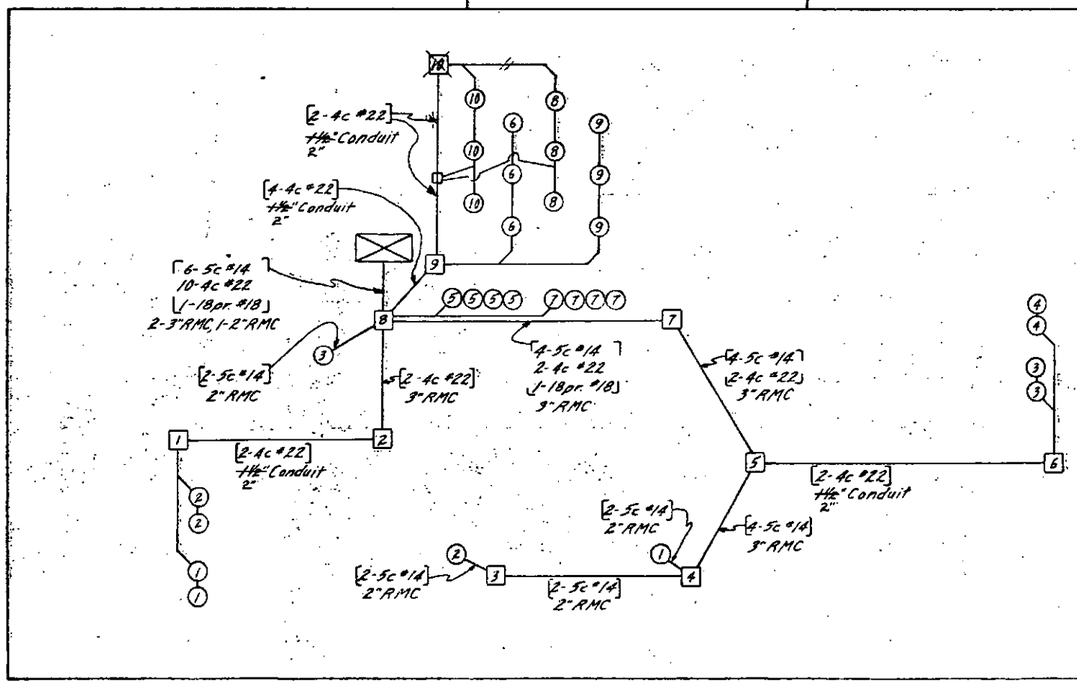
CABLE & CONDUIT QUANTITIES

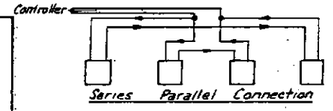
CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4C #22	Detector Lead-in	~~X~~ 480'
5C #14	Signal, Pedestrian	~~0~~
5C #14	Signal, Vehicular	~~1220'~~
2C #12	Push-Button Detector	~~0~~
1C #12	Detector Lead-in (Loop)	~~0~~
18 Pr. #18	Interconnect Cable	~~100'~~
	LUMP SUM ALL REQ'D.	

CONDUIT SIZE	DESCRIPTION	LIN. FT.
1/2"	Rigid PVC Conduit	~~95'~~
1 1/4"	Rigid Metal Conduit	~~50'~~
1 1/2"	Rigid PVC Conduit	~~430'~~
2"	Rigid Metal Conduit	~~155'~~
3"	Rigid Metal Conduit	~~280'~~
	LUMP SUM ALL REQ'D.	



WIRING DIAGRAM





LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Amber
7th Avenue	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. VD.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-20	1	1		10-Max	30 Amp Main 20 Amp. Accessory	

POWER SUPPLY

LOCATION			ASSEMBLY	SERVICE POLE	REMARKS
APPROACH	STATION	SIDE			
Power for Step Down Transformer shall be provided by Load Center "R" See Illumination Sheet for Location.					

PHASE SEQUENCE

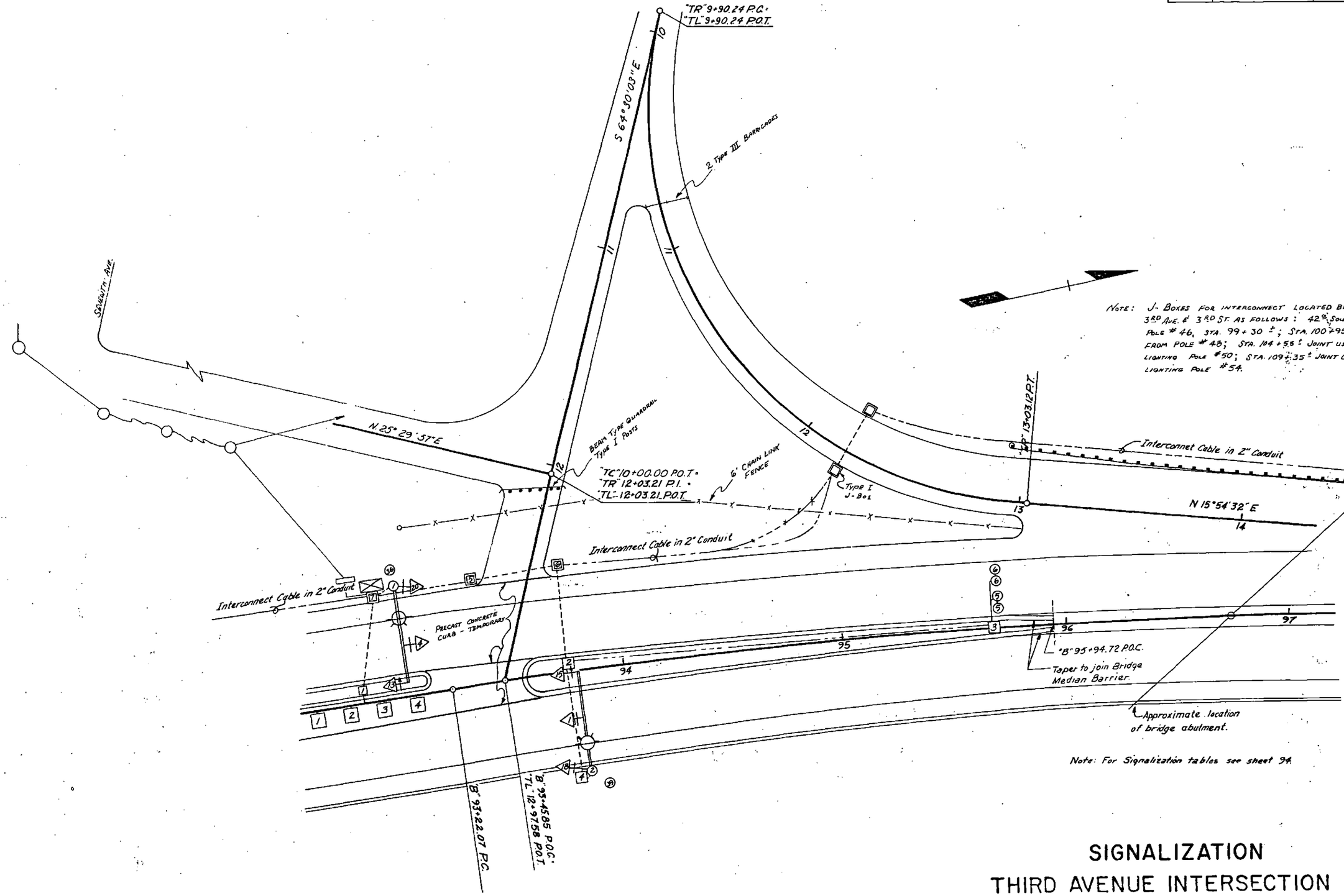
INTERSECTION NOTES

1. A 7.5 KVA, 60 Cycle, 480, 120/240 Stepdown Transformer shall be provided for the Signal Controller and mounted according to the detail on Sheet 86. The Door for the Transformer Vault shall be hinged for access to the non-fused Disconnects mounted in the Transformer Vault. The Transformer Vault shall have Drain Holes drilled in the bottom and a Screen placed over the Drain Holes.
2. For intersection details see sheet 91.
3. Pole No. 2, STA. "B" 89+13, SHALL BE EQUIPPED WITH AN ALTERNATE MAST ARM.

Addendum No. 4

SIGNALIZATION
SEVENTH AVENUE INTERSEC.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	93	126



NOTE: J-BOXES FOR INTERCONNECT LOCATED BETWEEN 3RD AVE. & 3RD ST. AS FOLLOWS: 42'± SOUTH OF POLE #46, STA. 99+30 ±; STA. 100+95 ± 120' ± FROM POLE #48; STA. 104+55 ± JOINT USE WITH LIGHTING POLE #50; STA. 109+35 ± JOINT USE WITH LIGHTING POLE #54.

Note: For Signalization tables see sheet 94.

SIGNALIZATION
THIRD AVENUE INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(23)	1975	94	126

SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
1	"B" 93+02	50 Lt.	B	CIDH	15'	44	16	—	
2	"B" 93+80	45.5 Rt.	B	CIDH	15'	44	16	—	
3	"B" 92+90	50' Lt.	Type D Controller Foundation						

SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
4	1	12"	Plumbizer	R-Y-G
13		12"	Plumbizer	R-Y-G-LTA
20		8"	S-1	R-Y-G
1	2	12"	Plumbizer	R-Y-G
15		12"	Plumbizer	R-Y-G LTA
18		8"	S-1	R-Y-G

DETECTOR SCHEDULE

POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
"B" 92+60	1	B		6x6	3		
"B" 92+75	2	B		6x6	3		
"B" 92+90	3	B		6x6	3		
"B" 93+05	4	B		6x6	3		
"B" 95+70	5,6	A				2	2-2 Probe Sets 3 Advance

CABLE & CONDUIT QUANTITIES

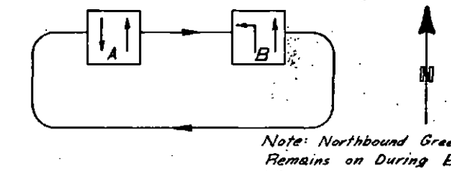
CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4C #22	Detector Lead in	750'
3C #14	Signal, Pedestrian	0
5C #14	Signal, Vehicular	890
2C #12	Push-Button Detector	0
1C #12	Detector, Lead-in (Loop)	135
18pr #18	Interconnect Cable	135
	Lump Sum All Req'd.	

CONDUIT SIZE	DESCRIPTION	LIN. FT.
½"	Rigid PVC Conduit	15'
1¼"	Rigid Metal Conduit	10'
1½"	Rigid PVC Conduit	210'
2"	Rigid Metal Conduit	210'
3"	Rigid Metal Conduit	80'
3"	Rigid PVC Conduit	60'
	Lump Sum All Req'd.	

All Above Quantities Are Approximate.

JUNCTION BOX SCHEDULE

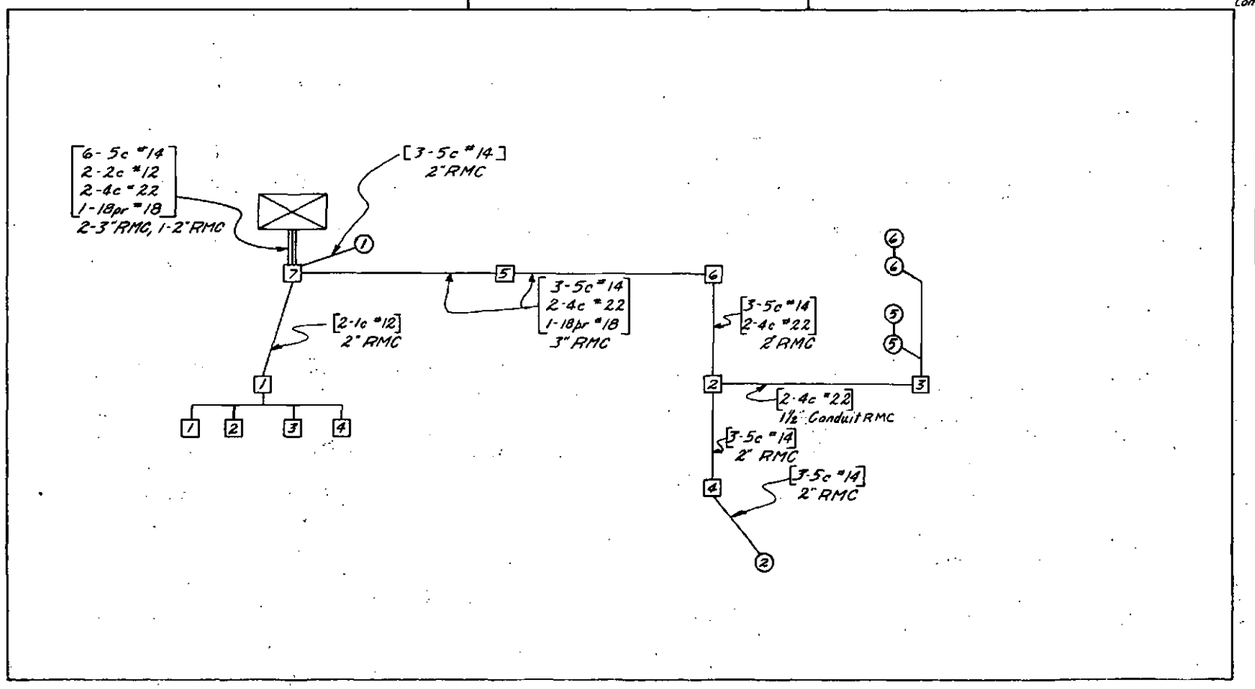
NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	1	"B" 92+82	6' Lt.				
2	1	"B" 95+70	℄				
3	1	"B" 93+75	6' Lt.				
4	1	"B" 93+75	47' Lt.				
5	2	"B" 93+37	50' Lt.				
6	2	"B" 93+75	50' Lt.				
7	2	"B" 92+90	48' Lt.				

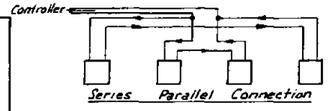


Note: Northbound Green Remains on During Both Phases.

PHASE SEQUENCE

WIRING DIAGRAM





LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Left Turn	Flash Red
Steese Expressway	Flash Amber

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. VD.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-20	1	1		4-Mag	30 Amp Main Cabinet	
					1-Loop	20 Amp Accessory	

POWER SUPPLY

LOCATION			ASSEMBLY	SERVICE POLE	REMARKS
APPROACH	STATION	SIDE			
Load Center "P" Shall be Located at Approximately "B" 93+30 on the Lt. ~~A Service Pole, Meter Base,~~ and Associated Conduit Will be Required. The Load Center Shall Provide 120/240 Volt Service and Have a 100 Amp Main Breaker. Underground Service From Existing Pole Eliminates Need For Service Pole.					

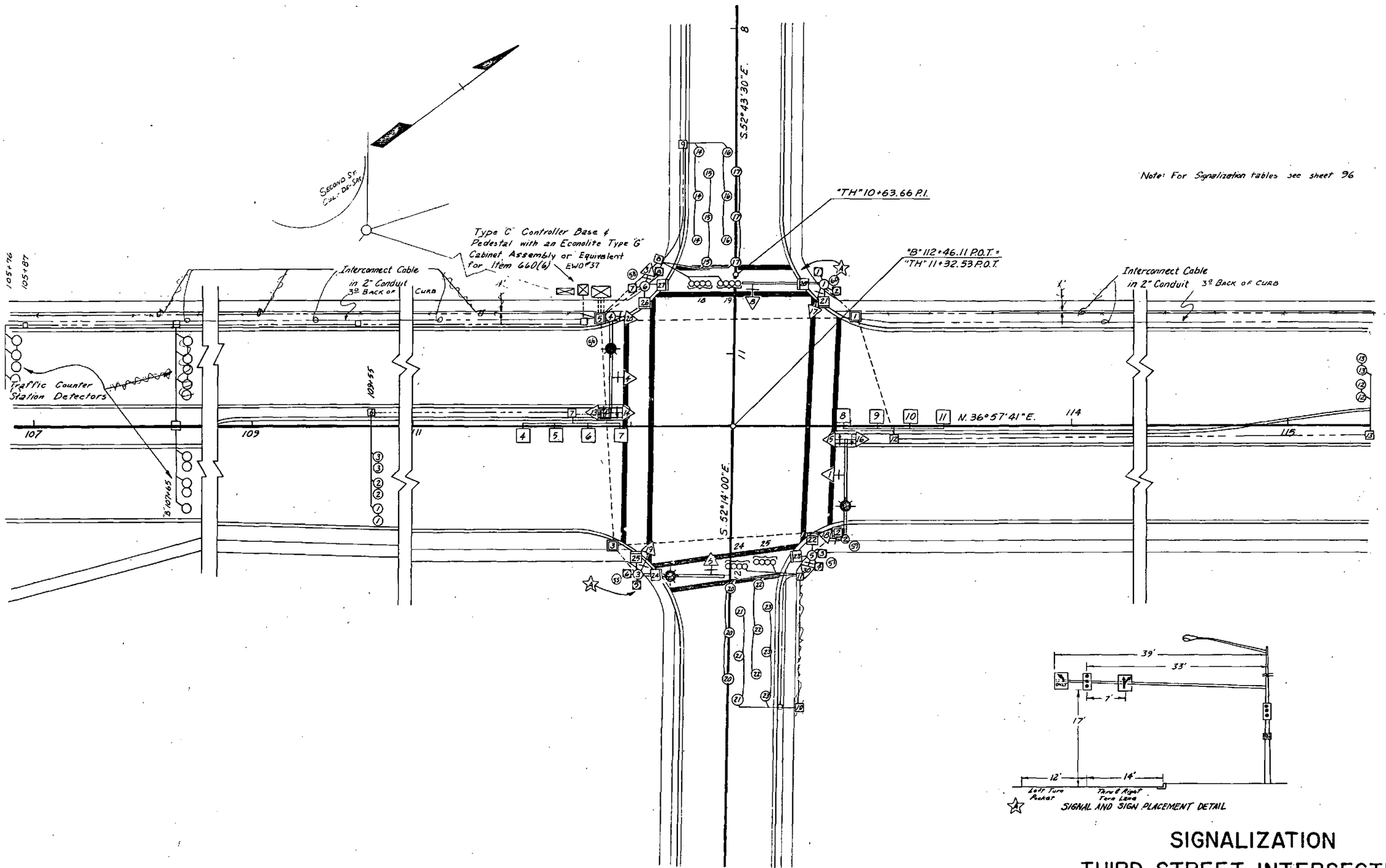
Note: For intersection details see sheet 93.

SIGNALIZATION

THIRD AVENUE INTERSECTION

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sh.
ALASKA	RF-ALF-082-4(25)	1975	95	12

Note: For Signalization tables see sheet 96



SIGNAL AND SIGN PLACEMENT DETAIL

SIGNALIZATION
THIRD STREET INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	96	126

SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
①1	"TH" 10+68	40'Lt.	B	CIDH				39'	Alternate Mast Arm
2	"B" 112+98	50'Rt.	B	CIDH	15'	44'	16'		
①3	"TH" 12+00	41'Rt.	B	CIDH	15'			39'	Alternate Mast Arm
4	"B" 111+90	50.5Lt.	B	CIDH	15'	44'	16'		
5	"TH" 11+90	37'Lt.	A	A					
6	"TH" 10+69	41'Rt.	A	A					
7	"B" 111+85	61'Lt.	0	Controller Foundation					

① Provide for Signal Mount on Signal Arm at a point 33' from Signal Pole.

JUNCTION BOX SCHEDULE

NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	2	"B" 113+04	50'Lt.				
2	2	"B" 112+94	48'Rt.				
3	2	"B" 111+90	54'Rt.				
4	2	"B" 111+88	6'Lt.				
5	2	"B" 111+85	50'Lt.				
6	1	"B" 109+55	6'Lt.				
7	1	"B" 111+72	6'Lt.				
8	1	"TH" 10+58	34'Rt.				
9	1	"TH" 10+08	24'Rt.				
10	1	"TH" 12+60	22-31'Lt.				
11	1	"TH" 12+00	31'Lt.				
12	1	"B" 113+20	6'Rt.				
13	1	"B" 115+33	6'Rt.				

SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
8	1	12"	'Plumbizer	R-Y-G
17		8"	S-1	R-Y-G
21		Ped W-DW	SW-2	
28		Ped W-DW		
1	2	12"	Plumbizer	R-Y-G
15		12"	Plumbizer	R-Y-GLTA
16		12"	Plumbizer	R-Y-GLTA
18		8"	S-1	R-Y-G
5	3	12"	Plumbizer	R-Y-G
19		8"	S-1	R-Y-G
24		Ped W-DW	SW-2	
25		Ped W-DW		
4	4	12"	Plumbizer	R-Y-G
13		12"	Plumbizer	R-Y-GLTA
14		12"	Plumbizer	R-Y-GLTA
20		8"	S-1	R-Y-G
22	5	Ped W-DW	SW-2	
23		Ped W-DW		
30		8"	T-1	R-Y-G
26	6	Ped W-DW	SW-2	
27		Ped W-DW		
31		8"	T-1	R-Y-G

DETECTOR SCHEDULE

POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
1	P-1	A_3	1				
	P-2	A_1	1				
5	P-3	A_2	1				
	P-4	A_3	1				
3	P-5	A_2	1				
	P-6	A_3	1				
6	P-7	A_3	1				
	P-8	A_1	1				
"B" 109+55	1,2,3	A_2				3	3-2 Probe Sets } Advance
"B" 111+50	4	B_1		6x6	3		
"B" 111+65	5	B_1		6x6	3		
"B" 111+80	6	B_1		6x6	3		
"B" 111+95	7	B_1		6x6	3		
"B" 112+95	8	B_2		6x6	3		
"B" 113+10	9	B_2		6x6	3		
"B" 113+25	10	B_2		6x6	3		
"B" 113+40	11	B_2		6x6	3		
"B" 115+33	12,13	A_1				2	2-2 Probe Sets } Advance
②"TH" 10+48	18	A_3				1	1-4 Probe Set } Presence
	14	A_3				1	1-3 Probe Set
	15	A_3				1	1-3 Probe Set
	19	A_3				1	1-4 Probe Set } Presence
	16	A_3				1	1-3 Probe Set
	17	A_3				1	1-3 Probe Set
②"TH" 11+96	24	A_3				1	1-4 Probe Set } Presence
	20	A_3				1	1-3 Probe Set
	21	A_3				1	1-3 Probe Set
②"TH" 11+93	25	A_3				1	1-4 Probe Set } Presence
	22	A_3				1	1-3 Probe Set
	23	A_3				1	1-3 Probe Set

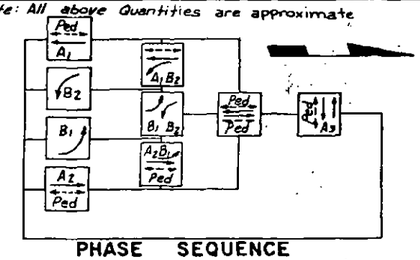
② See Sheet No. 86 for Details.

CABLE & CONDUIT QUANTITIES

CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4c #22	Detector Lead-in	4,120
3c #14	Signal, Pedestrian	1,375
5c #14	Signal, Vehicular	2,270
2c #12	Push-Button Detector	1,375
1c #12	Detector Lead-in (Loop)	595
18pr #18	Interconnect Cable	155
	Lump Sum All Req'd.	

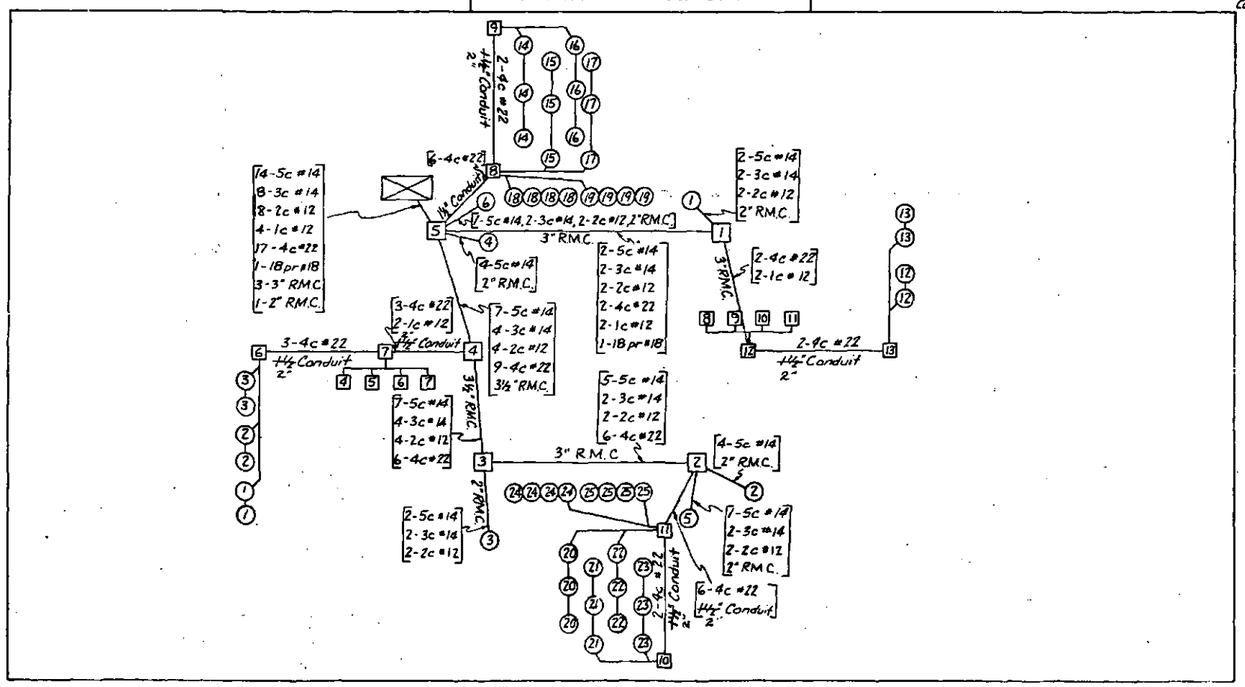
CONDUIT SIZE	DESCRIPTION	LIN. FT.
1/2"	Rigid PVC Conduit	85
1¼"	Rigid Metal Conduit	40
1½"	Rigid PVC Conduit	675
2"	Rigid Metal Conduit	150
3"	Rigid Metal Conduit	355
3½"	Rigid Metal Conduit	120
	Lump Sum All Req'd.	

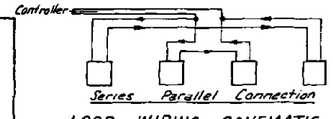
Note: All above Quantities are approximate



PHASE SEQUENCE

WIRING DIAGRAM





LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Amber
Third Street & Left Turns	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. VD.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-5Ø	2	1	2	17-MAG	30 Amp Main Cabinet	
					2-LOOP	20 Amp Access	

POWER SUPPLY

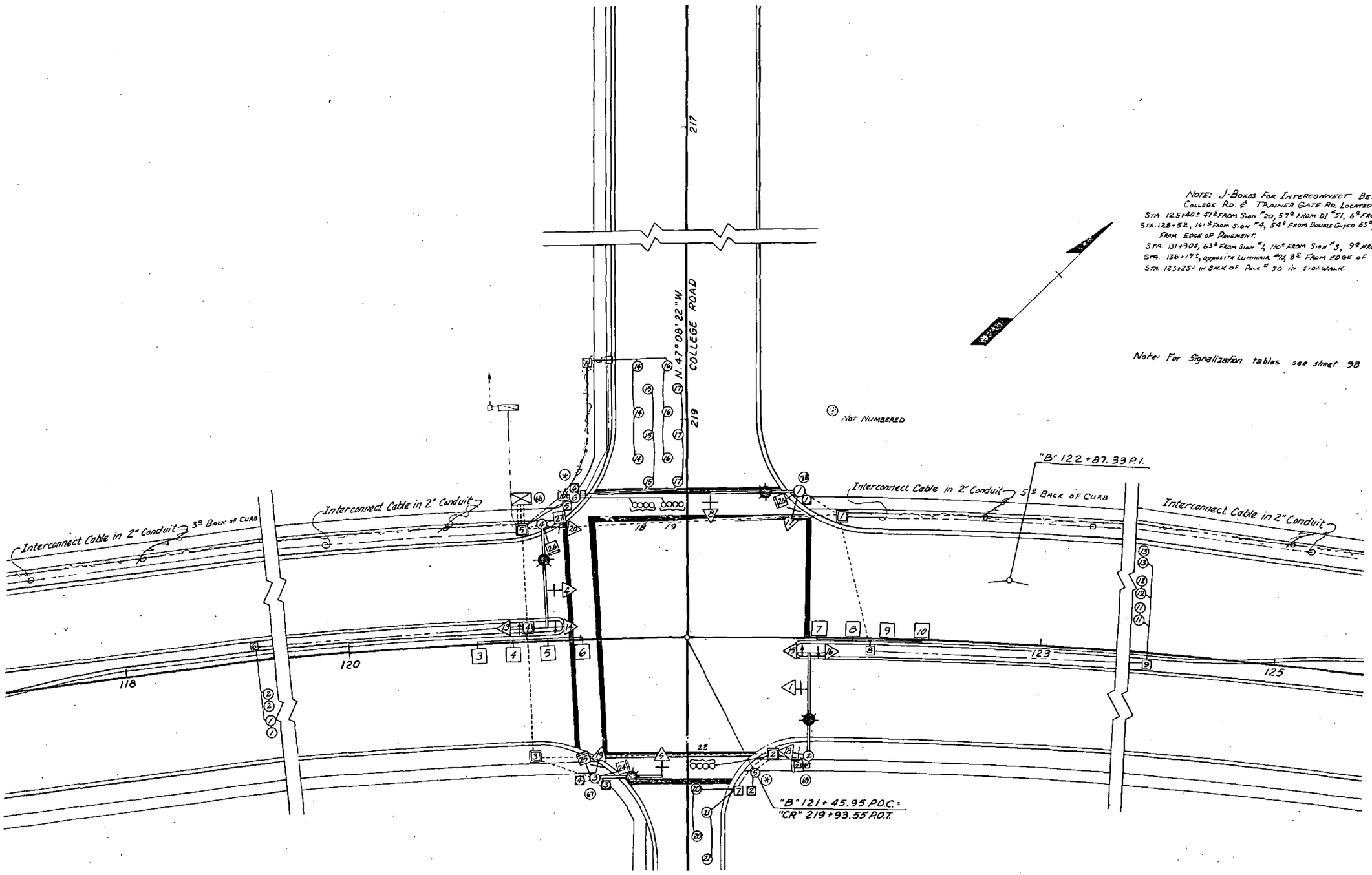
LOCATION APPROACH	LOCATION STATION	LOCATION SIDE	ASSEMBLY	SERVICE POLE	REMARKS
Load Center "J" Shall be located at approximately "B" 111+80± on the Lt. A ~~Service Pole, Meter Base, &~~ Associated Conduit will be required. The Load Center shall provide 120/240 volt service & 100 Amp Main Breaker and the following Branch Breakers. 1-30 Amp, 1-50 Amp & 1 Spare. SEE EWO # 30					

INTERSECTION NOTES

1. Pedestrian Push Buttons shall include a 9"x7" porcelain enamel signs (4 right arrows, and 4 left arrows) as shown on standard drawing T-30.00 without indicator lights.
2. For intersection details see sheet 95

SIGNALIZATION
THIRD STREET INTERSECTION

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	97	126



NOTE: J-BOXES FOR INTERCONNECT BETWEEN COLLEGE RD. & TRAINER GATE RD. LOCATED AS FOLLOWS:
STA. 125+40± 47'± FROM SIGN #20, 57° FROM DI #51, 6° FROM EDGE OF PAVEMENT
STA. 128+52, 161'± FROM SIGN #4, 54° FROM DOUBLE GUYED 65° POLE, 6± FROM EDGE OF PAVEMENT.
STA. 131+90±, 63'± FROM SIGN #1, 110° FROM SIGN #3, 9° FROM EDGE OF PAVEMENT
STA. 136+17±, OPPOSITE LUMINAIR #13, 8± FROM EDGE OF PAVEMENT
STA. 123+25± IN BACK OF POLE # 30 IN SIDEWALK.

Note: For Signalization tables see sheet 98

SIGNALIZATION
COLLEGE ROAD INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	98	126

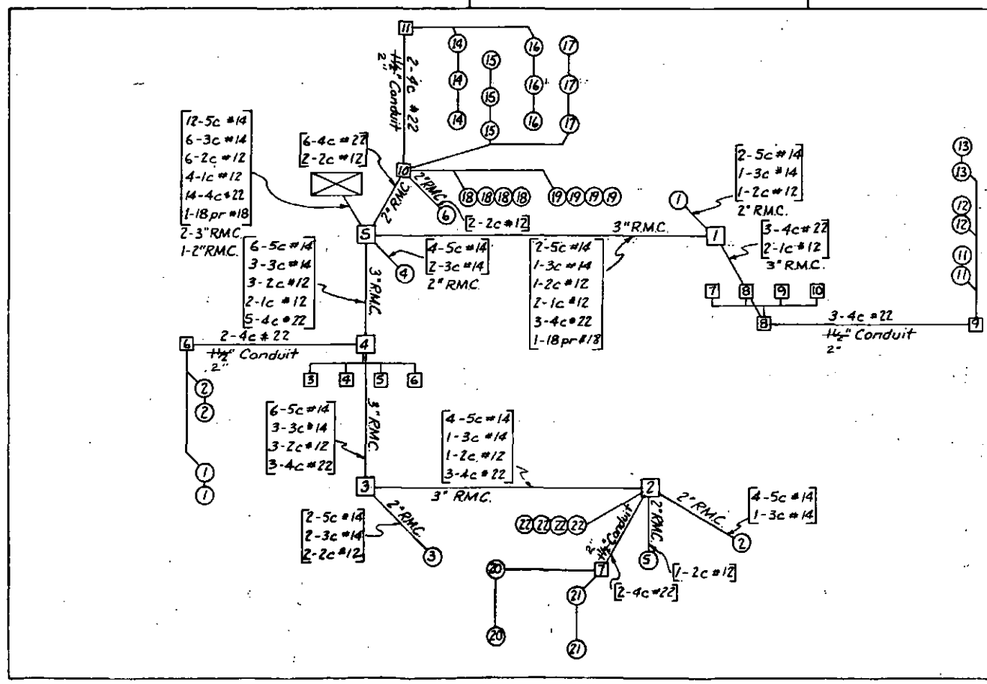
SIGNAL POLE LOCATION

NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
1	"CR" 219+32	49'Lt.	B	CIDH	15'			39	Alternate Mast Arm
2	"B" 122+00	505'Rt.	B	CIDH	15'	44	16		
3	"CR" 220+53	40'Rt.	B	CIDH	15'			30'	Alternate Mast Arm
4	"B" 120+85	505 Lt.	B	CIDH	15'	44	16		
5	"CR" 220+52	29'Lt.	Push Button Base Post, Type "B"						
6	"CR" 219+32	50'Rt.	Push Button Base Post, Type "B"						
7	"B" 120+78	60'Lt.	D	Controller Foundation					

JUNCTION BOX SCHEDULE

NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
1	2	"B" 122+12	53'Lt.				
2	2	"B" 121+85	50'Rt.				
3	2	"B" 120+77	50'Rt.				
4	2	"B" 120+77	6'Lt.				
5	2	"B" 120+77	50'Lt.				
6	1	"B" 118+60	6'Lt.				
7	1	"CR" 220+59	23 Lt.				
8	1	"B" 121+27	6'Rt.				
9	1	"B" 124+42	6'Rt.				
10	1	"CR" 219+31	54'Rt.				
11	1	"CR" 218+78	42'Rt.				

WIRING DIAGRAM



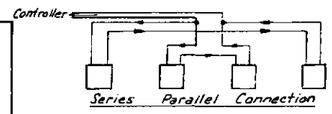
SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
8	1	12"	Plumbizer	R-Y-G
17		8"	S-1	R-Y-G
28		Ped W-DW	SW-1	
1	2	12"	Plumbizer	R-Y-G
15		12"	Plumbizer	R-Y-GLTA
16		12"	Plumbizer	R-Y-GLTA
18		8"	S-1	R-Y-G
23		Ped W-DW	SW-1	
5	3	12"	Plumbizer	R-Y-G
19		8"	S-1	R-Y-G
24		Ped W-DW	SW-2	
25		Ped W-DW		
4	4	12"	Plumbizer	R-Y-G
13		12"	Plumbizer	R-Y-GLTA
14		12"	Plumbizer	R-Y-GLTA
20		8"	S-1	R-Y-G
26		Ped W-DW	SW-2	
27		Ped W-DW		

DETECTOR SCHEDULE

POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
1	P-1	A_1	1				
5	P-2	A_2	1				
3	P-3	A_2	1				
	P-4	A_3	1				
6	P-5	A_1	1				
	P-6	A_3	1				
"B" 118+60	1, 2	A_2				2	2-2 probe Sets } Advance
"B" 120+55.61	3	B_1		6x6	3		
"B" 120+70.74	4	B_1		6x6	3		
"B" 120+85.91	5	B_1		6x6	3		
"B" 121+00.06	6	B_1		6x6	3		
"B" 122+04	7	B_2		6x6	3		
"B" 122+19	8	B_2		6x6	3		
"B" 122+34	9	B_2		6x6	3		
"B" 122+49	10	B_2		6x6	3		
"B" 124+42	11,12,13	A_1				3	3-2 probe Sets } Advance
① "CR" 219+38	18,19	A_3				2	2-4 probe Sets } Presence
	15,17	A_3				2	2-3 probe Sets
	14,16	A_3				2	2-3 probe Sets
① "CR" 220+50	22	A_3				1	1-4 probe Set } Presence
	20	A_3				1	1-2 probe Set
	21	A_3				1	1-2 probe Set

① See Detail Sheet No. 86



LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Amber
College Road	Flash Red
LEFT TURNS	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. VD.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-5Ø	2	1	2	14-MAG	30 Amp Main Cabinet	
					2-LOOP	20 Amp Access	

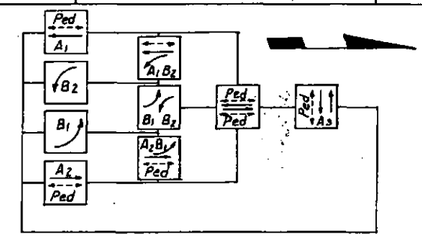
POWER SUPPLY

LOCATION			ASSEMBLY	SERVICE POLE	REMARKS
APPROACH	STATION	SIDE			
Power for Step Down Transformer shall be provided by Load Center "T" See illumination sheets for location.					

CABLE & CONDUIT QUANTITIES

CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4c #22	Detector lead-in (Magnetometer)	3,190
3c #14	Signal Pedestrian	930
5c #14	Signal Vehicular	2,050
2c #12	Push-Button Detector	990
1c #12	Detector, lead-in (Loop)	610
18 pr #18	Interconnect Cable	180
	LUMP SUM ALL REQ'D.	

CONDUIT SIZE	DESCRIPTION	LIN. FT.
½"	Rigid PVC Conduit	125
1¼"	Rigid Metal Conduit	40
1½"	Rigid PVC Conduit	550
2"	Rigid Metal Conduit	180
3"	Rigid Metal Conduit	480
	LUMP SUM ALL REQ'D.	



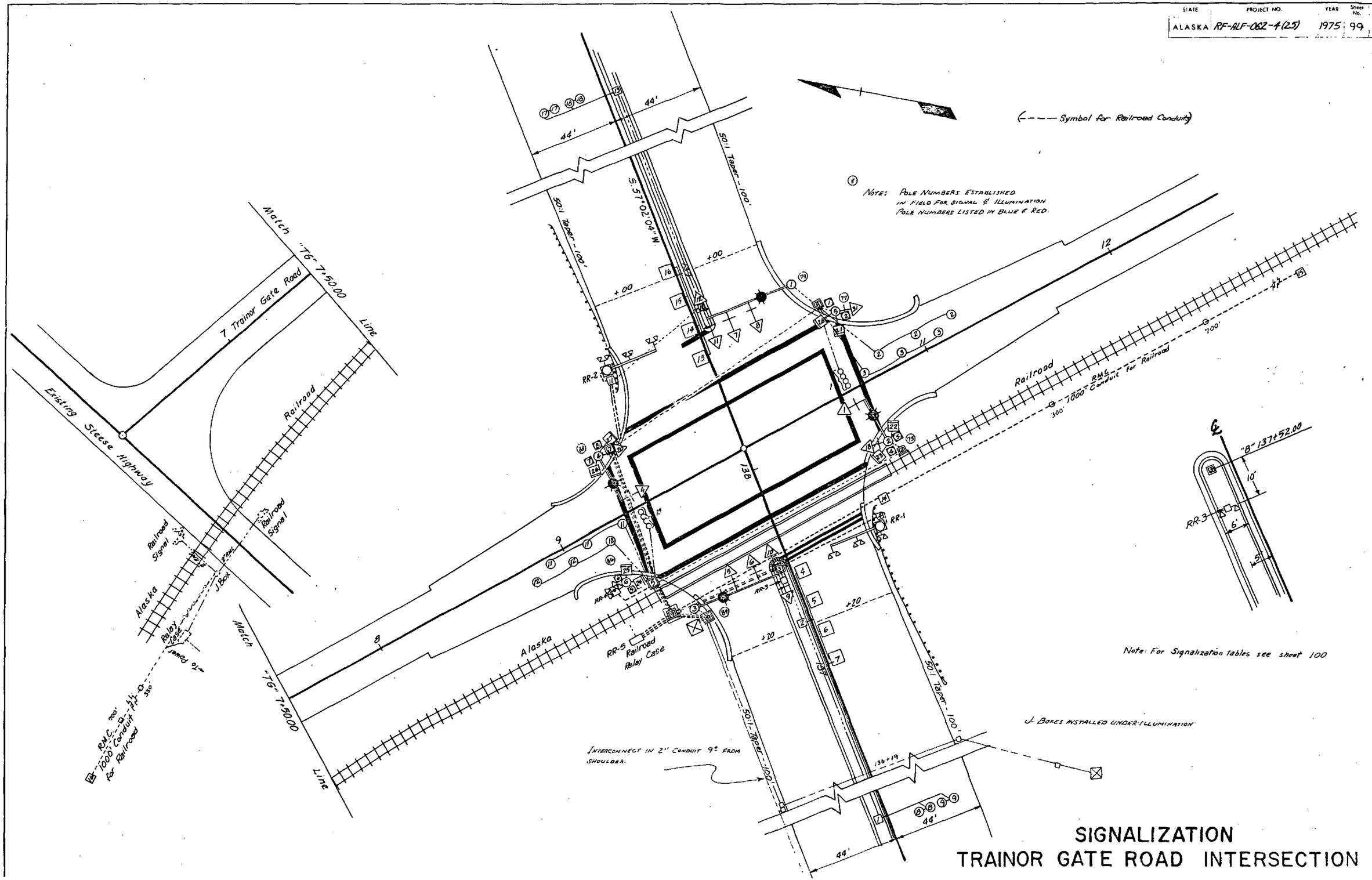
PHASE SEQUENCE

INTERSECTION NOTES

1. A 7.5 KVA, 60 cycle, 480, 120/240 Step Down Transformer shall be provided for the signal controller and mounted according to the Detail on Sheet 86. The door for the transformer vault should be hinged for access to the non-fused disconnects mounted in the transformer vault. The transformer vault shall have drain holes drilled in the bottom and a screen placed over the drain holes.
2. Pedestrian push buttons shall include 9"x7" porcelain enamel signs (3 right arrows, and 3 left arrows) as shown on Standard Drawing T-30.00 without indicator lights.
3. For intersection details see sheet 97

SIGNALIZATION
COLLEGE ROAD INTERSECTIC

STATE	PROJECT NO.	YEAR	Sheet No.	Total Sheets
ALASKA	RF-ALF-062-4(25)	1975	99	126



SIGNALIZATION
TRAINOR GATE ROAD INTERSECTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	100	120

SIGNAL POLE LOCATION

	NO.	STATION	OFFSET	TYPE	FOOTING	MAST ARM(S) LUMINAIRE	K	M	N	REMARKS
①	1	"L" 138+76	50'Rt	B	CIDH	15	44'	10'		
	2	"TG" 10+63	30'Rt	B	CIDH	15			24	Alternate Mast Arm
①	3	"L" 137+49	50'Lt	B	CIDH	15	44'	10'		
	4	"TG" 9+36	30'Lt	B	CIDH	15			24	Alternate Mast Arm
	5	"TG" 10+70	35'Lt	A	A					— — —
	6	"TG" 9+20	30'Rt	A	A					
	7	"L" 137+40	52'Lt	D	Controller Base					
	RR-1	"L" 137+50	48'Rt	B	See Standard Drawing T-75.10 Modified					
	RR-2	"L" 138+50	48'Lt	B	See Standard Drawing T-75.10 Modified					
②	RR-3	"L" 137+45	5'Lt	A	See Standard Drawing T-75.10 Modified					
	RR-4	"TG" 9+12	28'Rt	A	See Standard Drawing T-75.10 Modified					
	RR-5	"L" 137+45.33	82'Lt		Railroad Relay Case Foundation, See Std. Dwg. T-75.10 Modified					

① Signal arms shall be fabricated such that signal heads 5 & 8 can be installed at a location 22' from ℄ of signal pole. Heads 7 & 6 shall be located 34' from ℄ of signal pole.

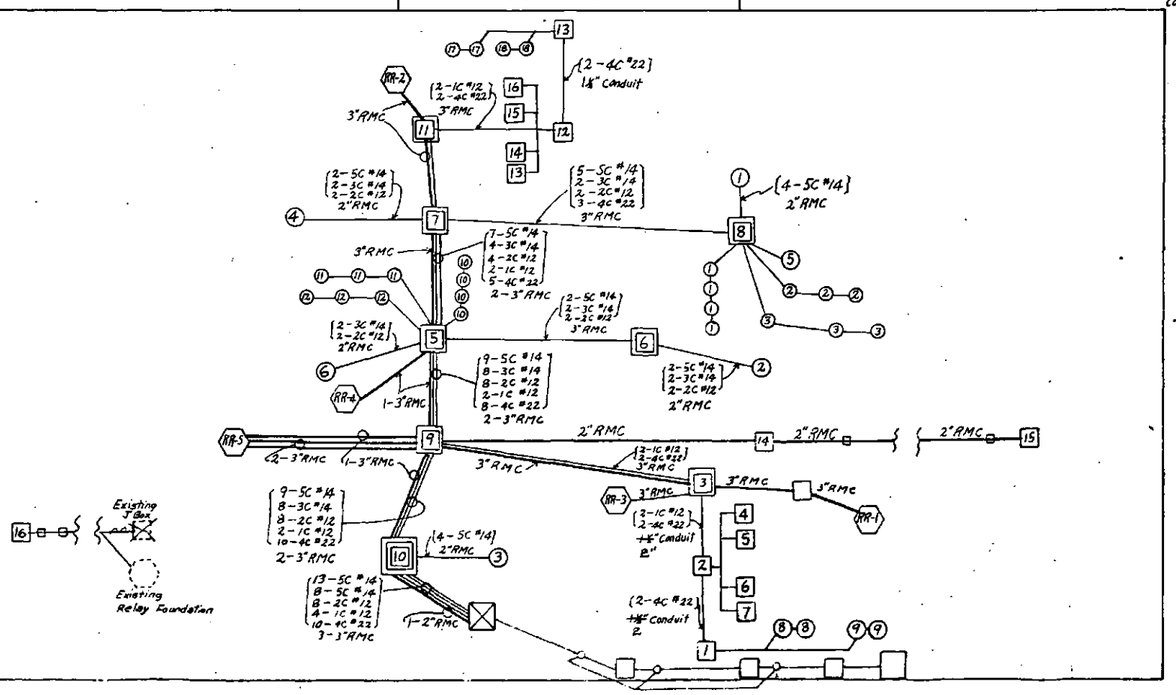
② Only railroad signal bases & conduit will be required for RR-1 through RR-5. Railroad Signals will be installed by others. Bolt & bolt pattern shall be verified by the Engineer before the order is placed. This work will be paid for under Item 617(2) Railroad Signal & Relay Case Foundations (Lump Sum).

JUNCTION BOX SCHEDULE

	NO.	TYPE	STATION	SIDE	NO.	TYPE	STATION	SIDE
	1	1	"L" 134+50	5'Lt	①14	1	"L" 137+59	52'Rt
	2	1	"L" 137+23	5'Lt	①15	1	Run 1008' East of J. Box #14	
③	3	X 2	"L" 137+52	5'Lt	①16	1	Run 1008' West of J. Box for	
③	4	1	"L" 137+55	50'Rt			RR Relay Case on Existing	
	5	2	"L" 137+68	66'Rt			Steese Hwy	
	6	2	"L" 137+88	62'Rt	*	1	330' EAST J-BOX 14	
	7	2	"L" 138+35	62'Lt	*	1	700' EAST J-BOX 14	
	8	2	"L" 138+60	58'Rt	*	1	330' WEST RR RELAY CASE	
③	9	3	"L" 137+52	62'Lt			ON EXISTING STEESE	
	10	3	"L" 137+40	47'Lt	*	1	700' WEST RR RELAY	
	11	X 2	"L" 138+65	48'Lt			CASE ON EXISTING STEESE	
	12	1	"L" 138+82	6'Rt				
	13	1	"L" 141+45	6'Rt	*	REF	E.W.O. #25	

③ These Junction Boxes will be paid for under Item 617(2) Railroad Signal & Relay Case Foundations (Lump Sum)

WIRING DIAGRAM



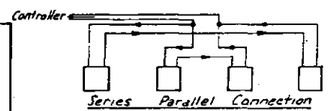
SIGNAL HEADS

NO.	POST	LENS SIZE	MOUNTING	TYPE
12	1	12"	Plumbiser	R-Y-GLTA
11		12"	Plumbiser	R-Y-GLTA
7		12"	Plumbiser	R-Y-G
8		12"	Plumbiser	R-Y-G
1	2	12"	Plumbiser	R-Y-G
18		8"	S-1	R-Y-G
22		Ped W-DW	SW-2	
23		Ped W-DW		
5	3	12"	Plumbiser	R-Y-G
6		12"	Plumbiser	R-Y-G
9		12"	Plumbiser	R-Y-GLTA
10		12"	Plumbiser	R-Y-GLTA
4	4	12"	Plumbiser	R-Y-G
20		8"	S-1	R-Y-G
26		Ped W-DW	SW-2	
27		Ped W-DW		
21	5	Ped W-DW	SW-2	
28		Ped W-DW		
31		8"	T-1	P-Y-G
24	6	Ped W-DW	TW-2	
25		Ped W-DW		

DETECTOR SCHEDULE

	POLE OR STATION	DETECTOR NO.	PHASE Ø	PUSH BUTTON	INDUCT. SIZE	LOOP TURNS	AMPLIFIER CHANNELS	REMARKS
	5	P-1	A_3	1				
		P-2	A_2	1				
	2	P-3	A_4	1				
		P-4	A_1	1				
	6	P-5	A_3	1				
		P-6	A_1	1				
	4	P-7	A_1	1				
		P-8	A_3	1				
④	"TG" 10+58	1	A_3				1	1-4 Probe Set
④		2	A_2				1	1-3 Probe Set (Presence)
④		3	A_3				1	1-3 Probe Set (Presence)
	"L" 137+46	4	B_1		6X6	3		
	"L" 137+31	5	B_1		6X6	3		
	"L" 137+16	6	B_1		6X6	3		
	"L" 137+01	7	B_1		6X6	3		
	"L" 134+50	8,9	A_4				2	2 Probe Sets — Advance
④	"TG" 9+41	10	A_3				1	1-4 Probe Set
④		11	A_2				1	1-3 Probe Set (Presence)
④		12	A_3				1	1-3 Probe Set
	"L" 138+59	13	B_2		6X6	3		
	"L" 138+74	14	B_2		6X6	3		
	"L" 138+89	15	B_2		6X6	3		
	"L" 139+04	16	B_2		6X6	3		
	"L" 141+45	17, 18	A_1				2	2 Probe Sets — Advance

④ See Sheet No. 86 for details



LOOP WIRING SCHEMATIC

FLASHING OPERATIONS

Steese Expressway	Flash Red
Trainor Gate	Flash Red
Left Turns	Flash Red

CONTROLLER(S)

NO.	TYPE	Ø MOD. NVD.	Ø MOD. NVDP.	Ø MOD. VDP.	DETECTOR AMPLIFIER CHANNELS	CIRCUIT BREAKERS IN CONTROLLER	REMARKS
1	F-5Ø	2	1	2	10-MAG	30 Amp Main	
					2-Loop	20 Amp Access	

POWER SUPPLY

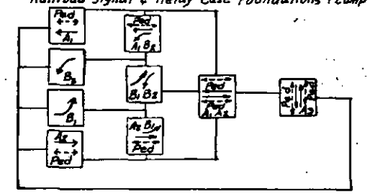
LOCATION APPROACH	LOCATION STATION	LOCATION SIDE	ASSEMBLY	SERVICE POLE	REMARKS
Power for Signals & Railroad Flashing Signals shall be provided from Load Center "V". See Illumination sheets for Load Center Location.					
REF E.W.O. #25					

CABLE & CONDUIT QUANTITIES

CONDUCTOR SIZE	DESCRIPTION	LIN. FT.
4C # 22	Detector, Lead-in	2700
3C # 14	Signal, Pedestrian	1600
5C # 14	Signal, Vehicular	2580
2C # 12	Push-Button Detectors	1500
1C # 12	Detector, Lead-in (Loop)	800

CONDUIT SIZE	DESCRIPTION	LIN. FT.
½"	Rigid PVC Conduit	210
1¼"	Rigid Metal Conduit	100
1½"	Conduit	630
2"	Rigid Metal Conduit	280
3"	Rigid Metal Conduit	570
Railroad:	LUMP SUM ALL REQ'D.	
2"	Rigid Metal Conduit	370
3"	Rigid Metal Conduit	2180
	LUMP SUM ALL REQ'D.	

Conduit quantities listed under Railroad will paid for under Item 617(2) Railroad Signal & Relay Case Foundations (Lump Sum).



PHASE SEQUENCE

INTERSECTION NOTES

1. Pedestrian Push Buttons shall include a 9"X7" Porcelain Enamel Signs (4 Right Arrows and 4 Left Arrows) As shown on Standard Drawing T-30.00 without indicator lights.
2. A Railroad Pre-amption Device shall be furnished & installed by the Railroad.
3. The Railroad will furnish in their Signal Cabinet a dry relay contact normally closed, rated 4A-30V for signal pre-amption activation.
4. All the railroad conduit shall have a NO. 12 AWG galvanized pull wire installed.
5. For intersection details see sheet 99

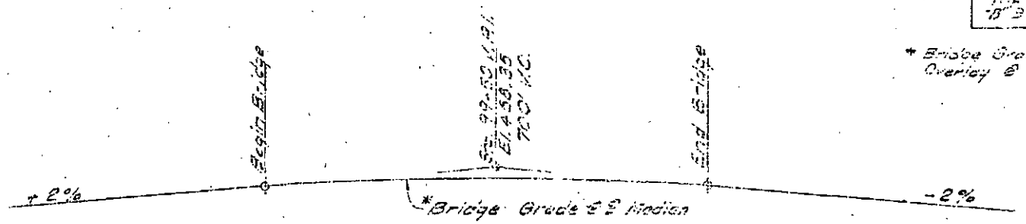
SIGNALIZATION
TRAINOR GATE INTERSECTIO

KF-ALF-062-4(25) (Option) - Fairbanks Area

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALT-062-4(25)	1975	101	1_6

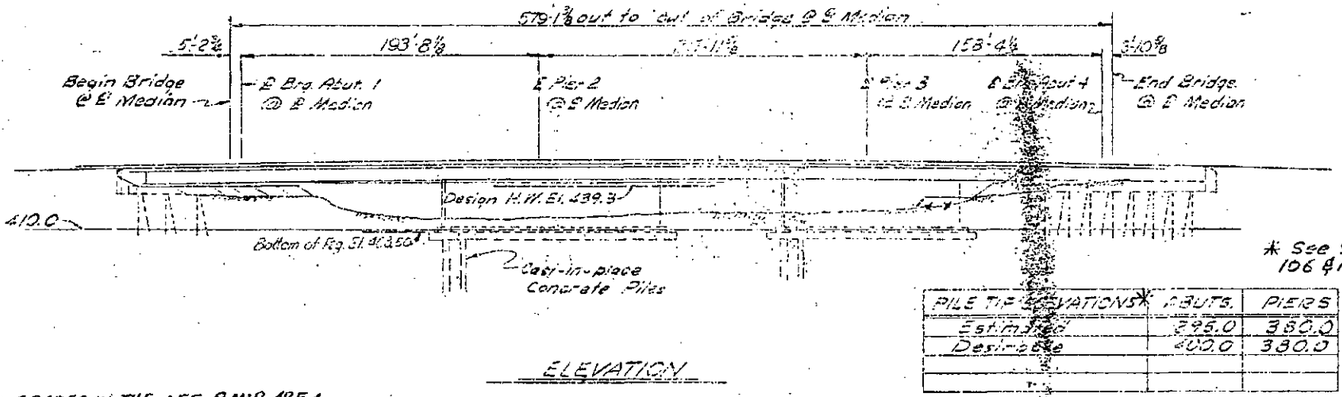
BM-F.M.#33A Elev. 435.87' Top of Pipe, 230' Lt. of 18"@ 33+70. Not Used

* Bridge Grade @ top of 2" Asphalt Overlay @ ℄ Median.



GRADE DATA
(No Scale)

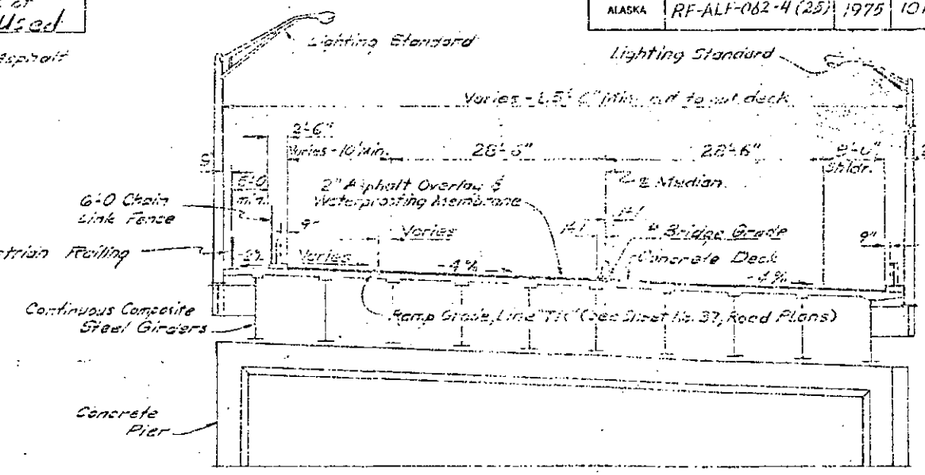
AS BUILT PLANS
R. Platzke Date 4-28-78
Project Engineer
CORRECTIONS TRANSFERRED
Tracings H. Leslie Date 8-1-79
Checked [illegible] Date [illegible]



ELEVATION

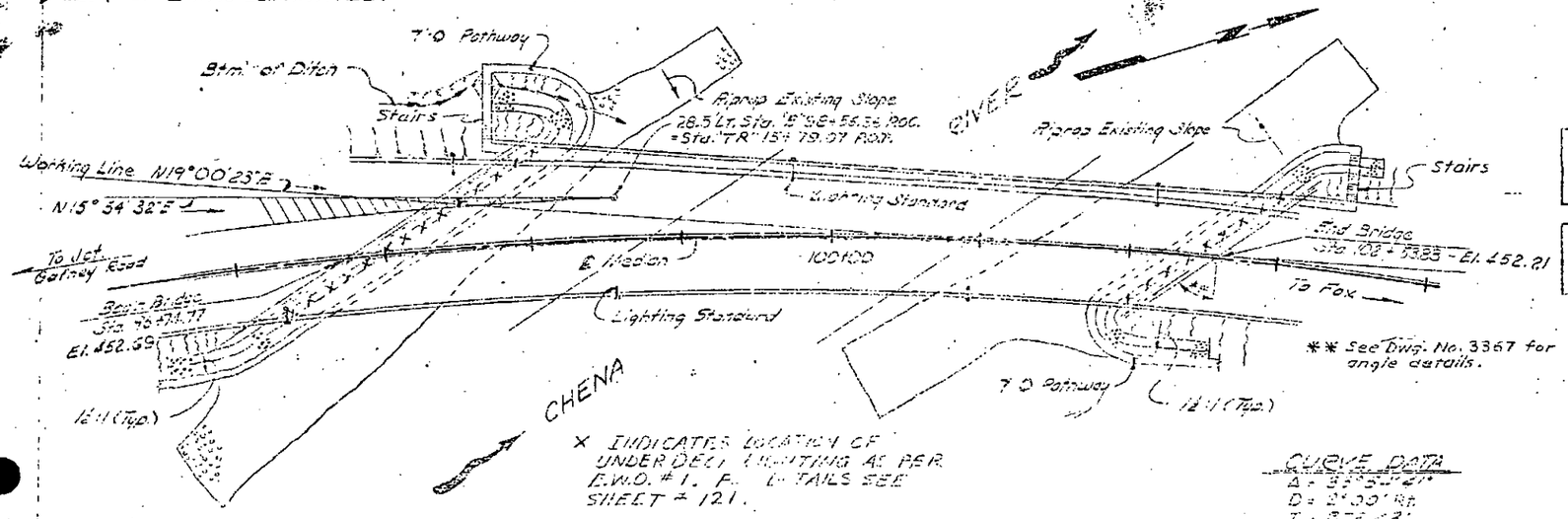
PILE TIP ELEVATIONS*	ABUTS.	PIERS
Estimated	295.0	380.0
Desirable	400.0	380.0

* See Sheets 104, 105, 106 & 107.



TYPICAL SECTION

Note: DECK GRADES IN THE OFF RAMP AREA WERE CHANGED. SECOND CROWN POINT LEFT OF ℄ WAS ELIMINATED.



PLAN

CURVE DATA
Δ = 33°50'42"
D = 2°00' Rad.
T = 874.23'
L = 1645.59'
E = 2864.79'

Live Load: HS 20-44
Allowance for additional future weight = 25 psf

INDEX OF SHEETS

NAME	DWG. NO.
GENERAL LAYOUT	3366
SITE PLAN	3367
RIPRAP, BIKE PATHS & STAIRWAYS	3368
ABUTMENT NO. 1	3369
ABUTMENT NO. 4	3370
PIER NO. 2	3371
PIER NO. 3	3372
TYPICAL SECTION	3373
MISC. SLAB DETAILS	3374
FRAMING PLAN	3375
GIRDERS 1 THRU 9	3376
GIRDER 10	3377
GIRDER 11	3378
GIRDERS 12, 13 & 14	3379
GIRDER 15 (A)	3380
GIRDER 15 (B)	3381
GIRDER CAMBER & DEAD LOAD DEFLECTION	3382
SPLICES	3383
FLOOR BEAMS & DIAPHRAGMS	3384
BEARINGS	3385
ILLUMINATION DETAILS ON BRIDGE STRUCTURE	3386
RAILING & DRAIN DETAILS	3387
BRIDGE RAILING	3388
CONCRETE PILES	3389
PERMANENT FORMS FOR BRIDGES	3390
LOG OF TEST BORINGS	3391

BM#22 ELEV. 439.81
SPIKE IN 6" COTTONWOOD 100' RT. OF STA. 101+00.

BM#21 ELEV. 440.65
SPIKE IN 14" COTTONWOOD 350' LT. OF 97+00.

The following Standard Drawings apply to this bridge: F-01.00, G-04.15, G-04.31, G-30.01, G-30.12, L-03.10, M-01.00, M-13.01.

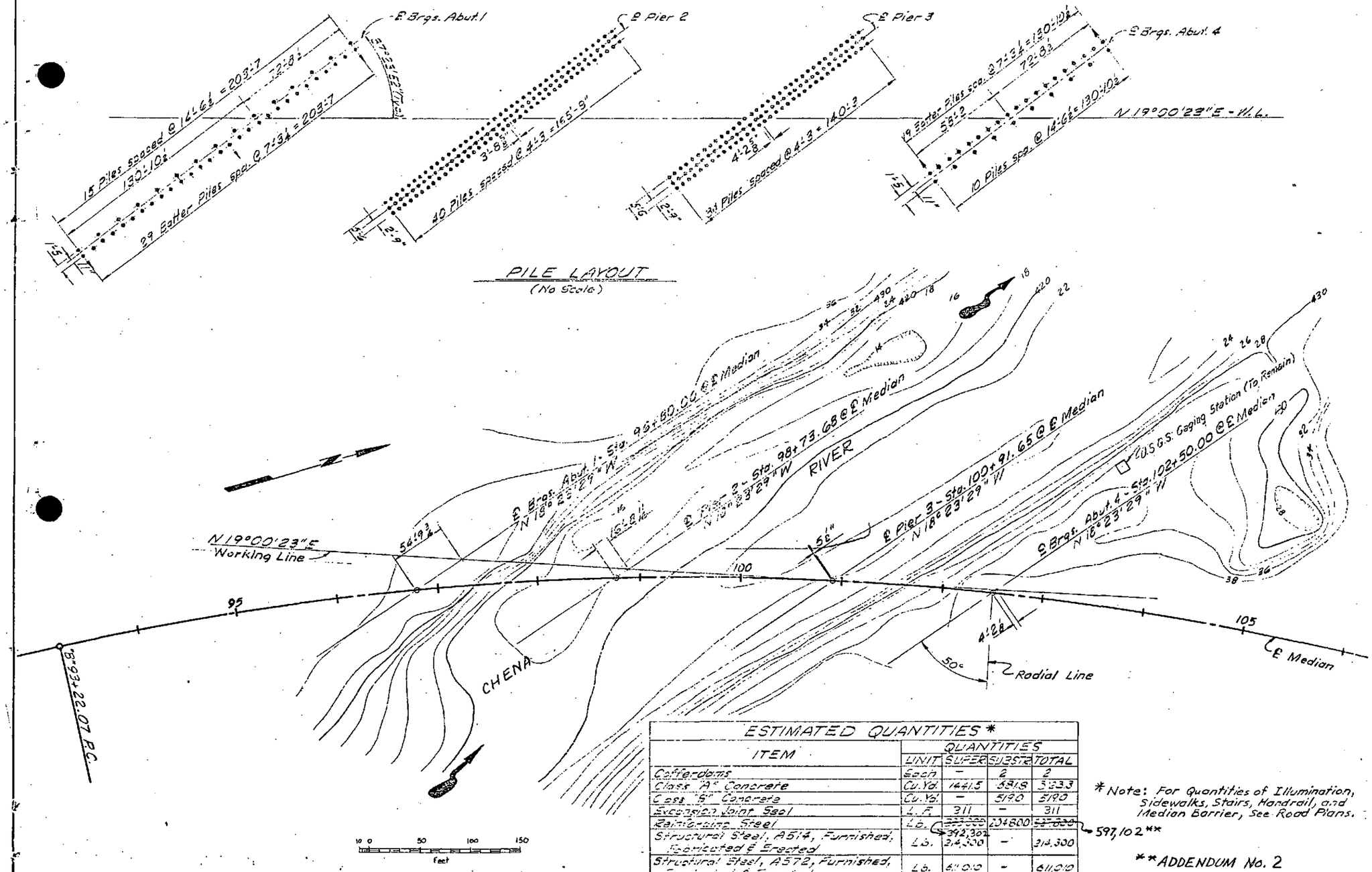
CHENA RIVER BRIDGE
ROUTE NO. F-62
GENERAL LAYOUT

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Drawn [illegible]
Approved [illegible]

BRIDGE NO. 231
DWG. NO. 3366

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	102	126



GENERAL NOTES

Specifications:
Design: A.A.S.H.O. Standard Specifications for Highway Bridges, 1973 Edition, with latest interim specifications.
Construction: State of Alaska Standard Specifications for Highway Construction, 1972, with supplemental Specifications, 1975 and Special Provisions.

Live Loads: H. S. 20-44
Dead Loads: Include 25 psf for additional future paving

Unit Stresses:
Reinforced Concrete: fc = 1200 psi, fs = 20,000 psi, n = 10

Structural Steel:
Tension & extreme fiber bending:

Type of Steel	Plate Thickness	Unit Stresses (psi)
A 36	All	20,000
A 572 Grade 50	2" & Less	27,000
A 572 Grade 42	Greater than 2"	25,000
A 514	2 1/2" & Less	55,000

Concrete:
All seal concrete shall be Class S. All other concrete shall be Class A.
Structural Steel: All structural steel shall be A 36 unless noted. All A 572 Steel 2" & less in thickness shall be Grade 50; All A 572 Steel thicker than 2" shall be Grade 42. All connections shall be made with 7/8"Ø A325 high strength bolts unless noted. Group 3 requirements for Charpy impact shall apply.

Piling: Type 12" Ø Cast in-place concrete
Design Load: Abutments-40 tons; Piers-60 tons.

ESTIMATED QUANTITIES *

ITEM	QUANTITIES			
	UNIT	SUPER	SUBSTR	TOTAL
Cofferdams	Each	—	2	2
Class "A" Concrete	Cu.Yd.	1441.5	681.8	3233
Class "B" Concrete	Cu.Yd.	—	5190	5190
Expansion Joint Seal	L.F.	311	—	311
Reinforcing Steel	Lb.	~~[illegible]~~ 392,302	204800	~~[illegible]~~ 597,102**
Structural Steel, A514, Furnished, Fabricated & Erected	Lb.	314,300	—	314,300
Structural Steel, A572, Furnished, Fabricated & Erected	Lb.	611,010	—	611,010
Structural Steel - All but A514 & A572 Furnished, Fabricated & Erected	Lb.	1,309,010 ~~[illegible]~~	5,110	~~[illegible]~~ 1,314,120**
Cast-in-Place Concrete Piles Furnished & Driven	L.F.	—	9940	9940
Asphalt Paving	Ton	551	—	551
Asphalt Cement	Ton	[illegible]	—	[illegible]
Metal Bridge Railing	L.F.	~~[illegible]~~ 1198.2		~~[illegible]~~ 1198.2
3'-6" Chain-Link Fence Railing	L.F.	~~[illegible]~~ 588		~~[illegible]~~ 588
6'-0" Chain-Link Fence Railing	L.F.	~~[illegible]~~ 572		~~[illegible]~~ 572
Riprap - Class I-A	Cu.Yd.	—	4100	4100
Membrane Waterproofing	S.Y.	50.5	—	50.5

* Note: For Quantities of Illumination, Sidewalks, Stairs, Handrail, and Median Barrier, See Road Plans.

** ADDENDUM No. 2

HYDROLOGIC & HYDRAULIC SUMMARY

DRAINAGE AREA: 1,980 Sq. miles
DESIGN FLOOD FREQUENCY: 50 Years
DESIGN DISCHARGE: 32,000 c.f.s.
DESIGN HIGHWATER: EL. 439.3

Contours as of April 25, 1969

AS BUILT PLANS
R. Platzke Date 4-28-78
Project Engineer.
CORRECTIONS TRANSFERRED
Tracings H. Leslie Date 8-1-79
Checked [illegible] Date [illegible]

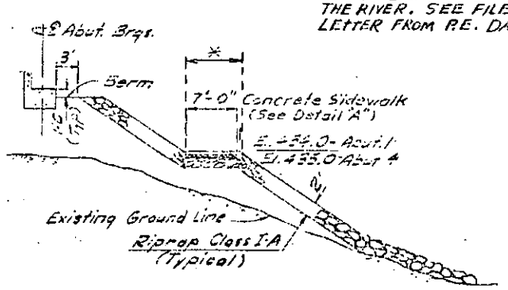
CHENA RIVER BRIDGE
ROUTE NO. F-62
SITE PLAN

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

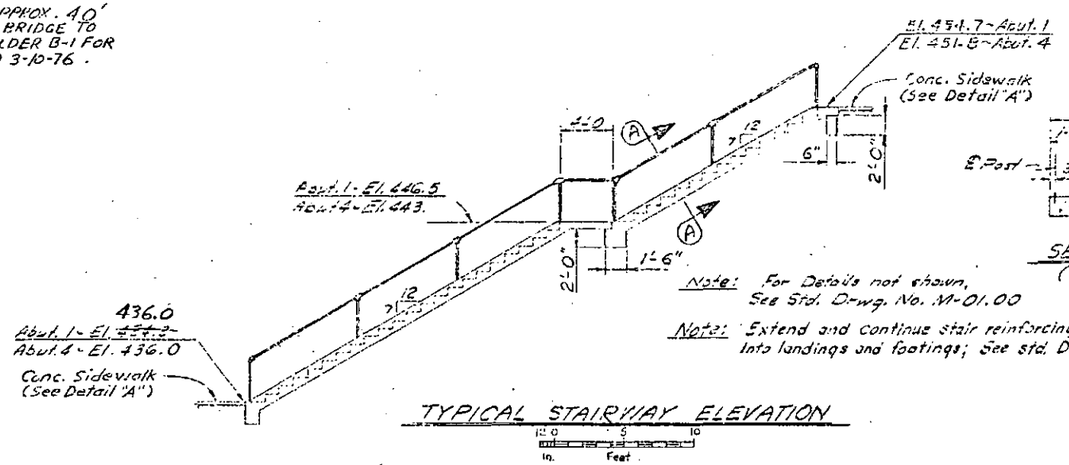
Date [illegible]
Approved [illegible]
BRIDGE NO. 231
DWNG. NO. 3367

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	103	126

* ABUTMENT #4 AREA IS APPROX. 40' DUE TO LOCATION OF THE BRIDGE TO THE RIVER. SEE FILE FOLDER B-1 FOR LETTER FROM R.E. DATED 3-10-76.



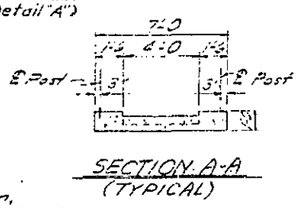
TYPICAL RIPRAP SECTION
(No Scale)



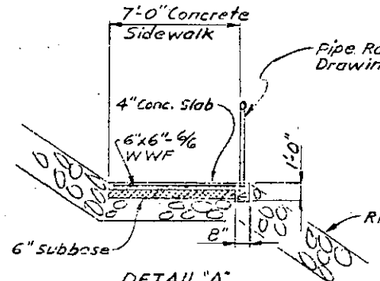
TYPICAL STAIRWAY ELEVATION

Note: For Details not shown, See Std. Drwg. No. M-01.00

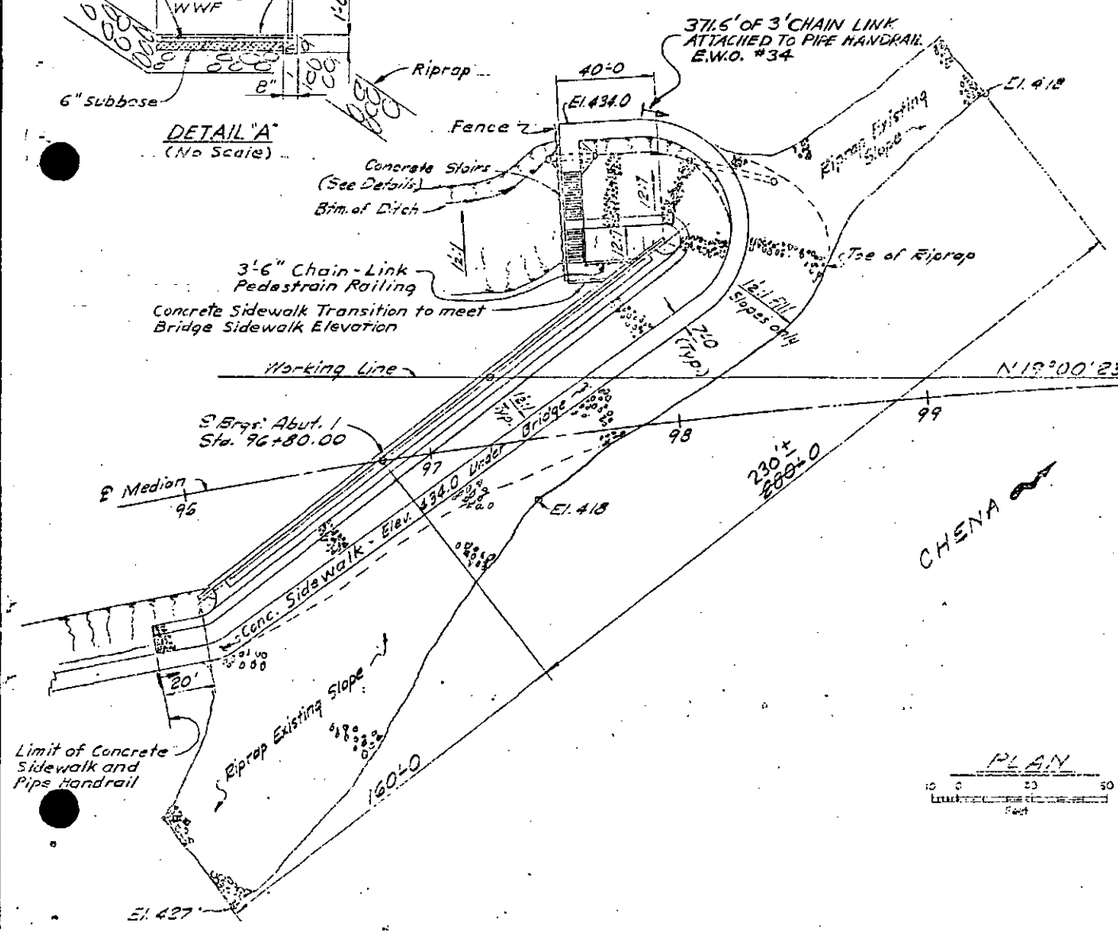
Note: Extend and continue stair reinforcing into landings and footings; See std. Drwg. No. M-0100



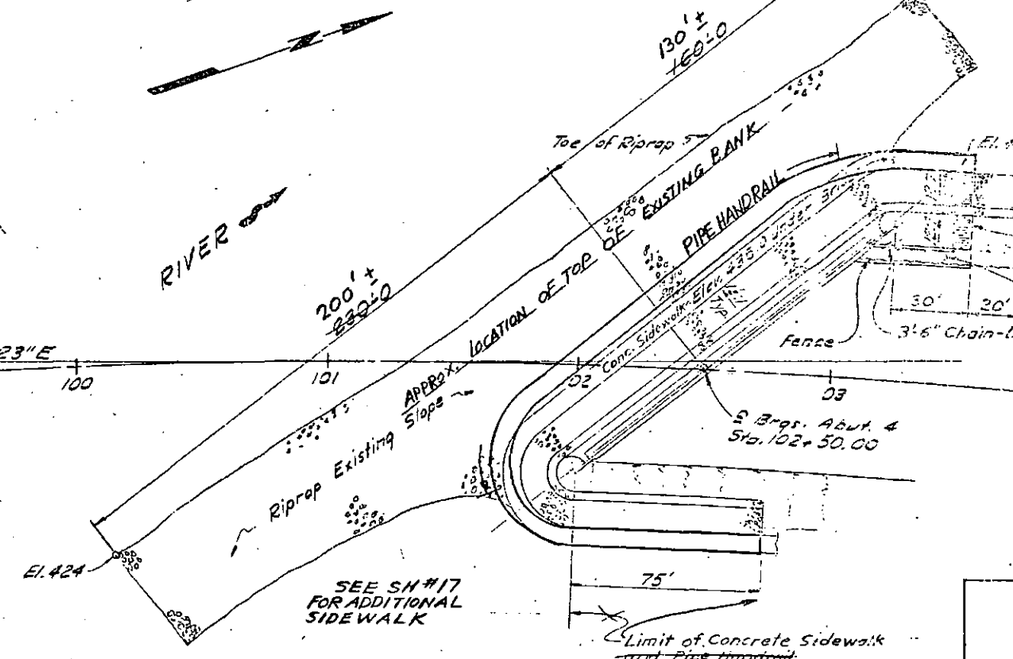
SECTION A-A
(TYPICAL)



DETAIL "A"
(No Scale)



PLAN



AS BUILT PLANS

R. Platzke — Date 4-28-78
Project Engineer

CORRECTIONS TRANSFERED

Tracings: H. Leslie — Date 8-1-79

Checked: [illegible] — Date [illegible]

CHENA RIVER BRIDGE

ROUTE NO. F-62

RIPRAP, BIKE PATHS & STAIRWAYS

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date [illegible]
Approved [illegible]

BRIDGE NO. 231
DWNG. NO. 3368

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	104	126

TABLE OF ELEVATIONS - TOP OF FORMED CONCRETE PAD

Girder No.	Elev.	Girder No.	Elev.	Girder No.	Elev.
1	442.93	7	445.93	13	443.07
2	441.99	8	445.41	14	442.36
3	442.04	9	445.01	15	442.04
4	442.36	10	444.54		
5	443.53	11	444.05		
6	443.39	12	443.56		

AS BUILT PLANS

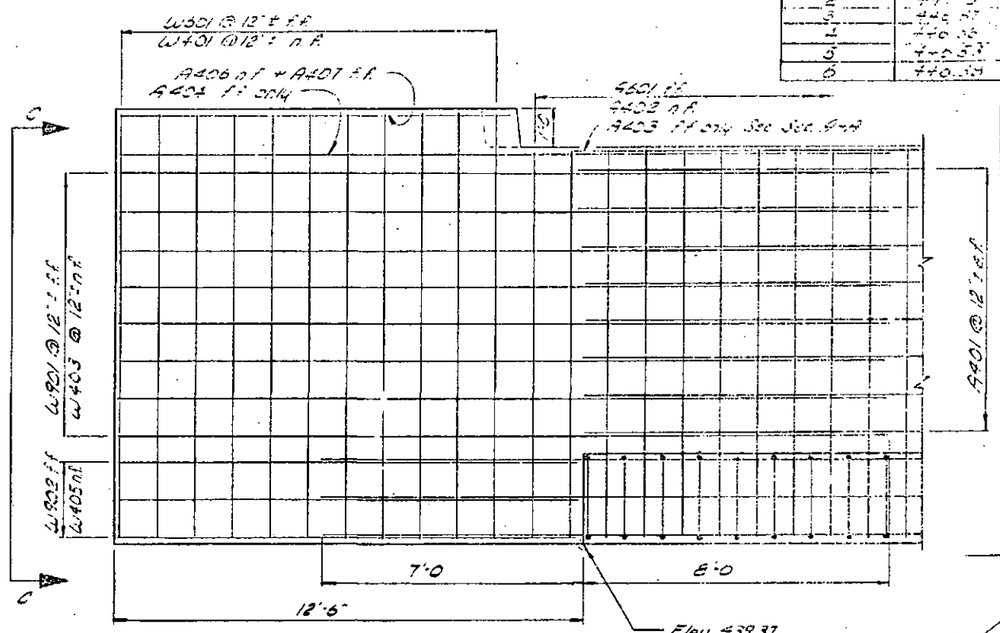
R. Platzke, Project Engineer — Date 4-28-78

CORRECTIONS TRANSFERED

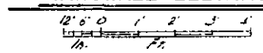
Tracings H. Leslie — Date 8-1-79

Checked — Date

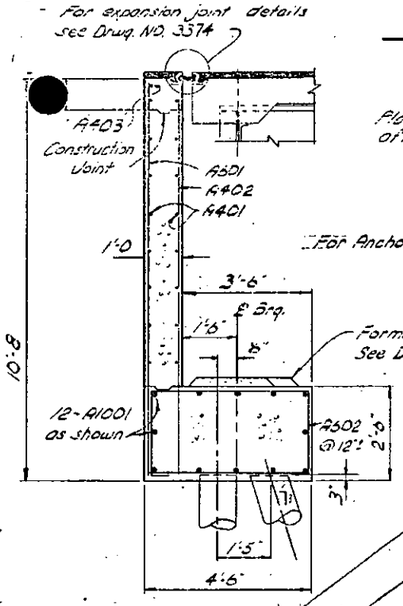
"For Pile Tip As Built" Elevations see Bridge Files.



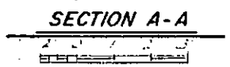
WINGWALL ELEVATION

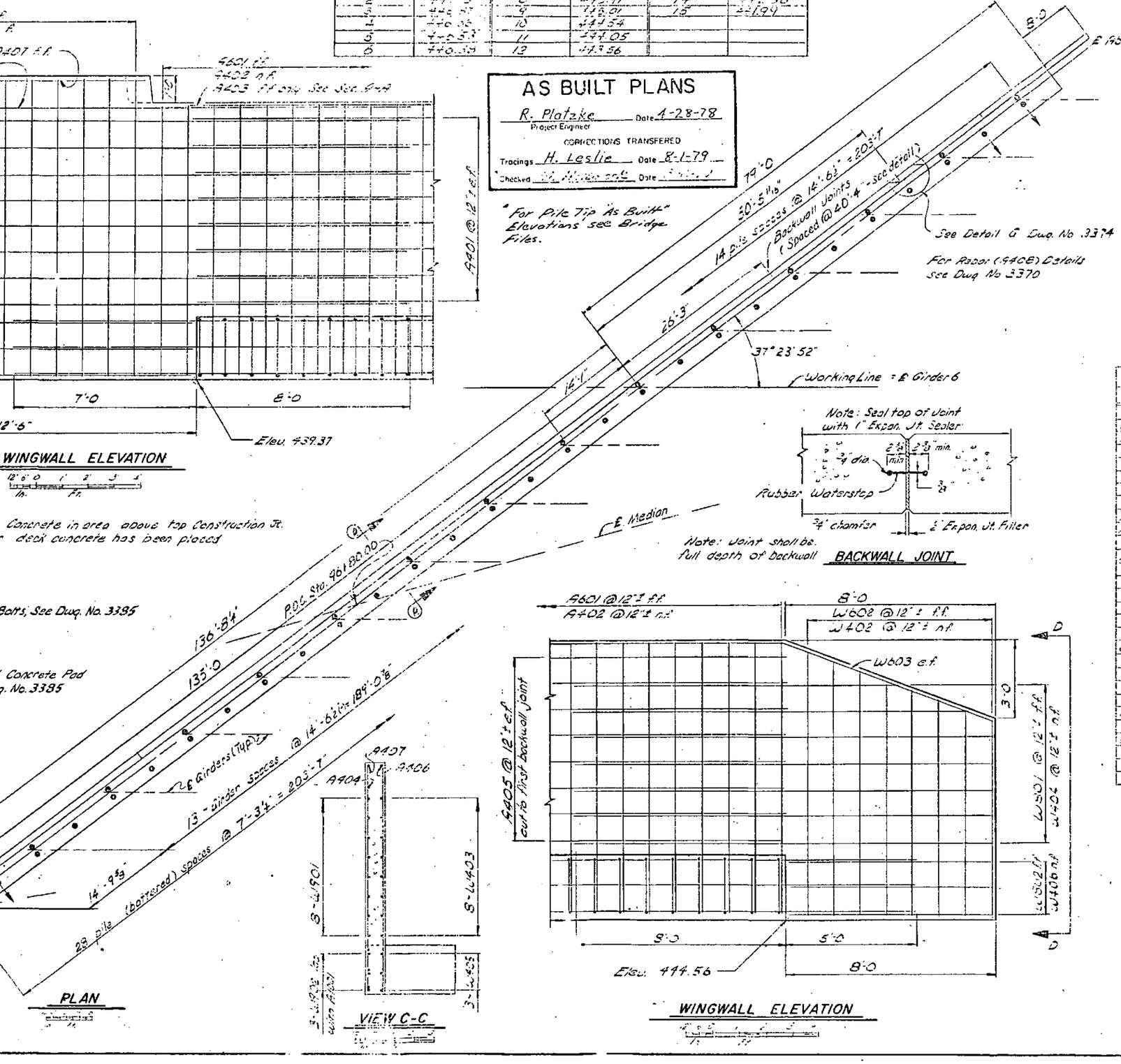


Place Concrete in area above top Construction Jt. after deck concrete has been placed

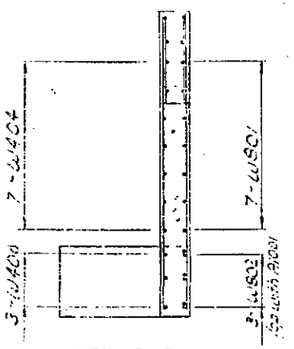


SECTION A-A





PLAN



VIEW D-D

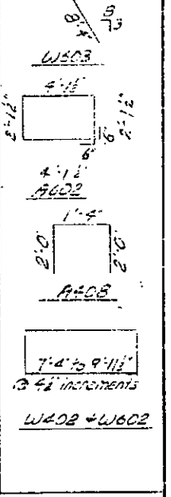
Note: Joint shall be full depth of backwall **BACKWALL JOINT**

WINGWALL ELEVATION

Reinforcing Steel ~ Abutment & Wingwalls

Mark	Size	No.	Length	Type	Bend Diagrams
A401	4	30	40'-0	—	
A402		12*	12'-3"	—	
A403		5	40'-0	—	
A404		10	20'-4"	—	
A405		15	12'-3"	—	
A406		1	13'-4	—	
A407		1	4'-8"	—	
A501	4	5	5'-4"	Bent	
A601	6	1	10'-3"	—	
A602	6	1+1	13'-6"	Bent	
A331	10	2	238'-0	—	
W401	4	11	11'-3"	—	
W402		8	Varies	—	
W403		5	20'-4"	—	
W404		1	15'-10"	—	
W405		1	12'-3"	—	
W406	4	1	7'-9"	—	
W601	6	11	11'-3"	—	
W602	6	8	Varies	—	
W603	6	5	20'-7"	Bent	
W801	8	7	15'-10"	—	
W802	8	3	7'-9"	—	
W901	9	30	20'-4"	—	
W902	9	12	12'-3"	—	

* Includes 3-4'-0 bar splices



CHENA RIVER BRIDGE

ROUTE NO. F-62

ABUTMENT # 1

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

BRIDGE NO. 231
DWNG. NO. 3369

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	105	126

W501 @ 12" c.f.
W401 @ 12" c.f.
A402 @ 12" c.f.
A501 @ 12" c.f.
W403 @ 12" c.f.
W503 @ 12" c.f.
W408 @ 12" c.f.
W603 @ 12" c.f.
W502 @ 12" c.f.
W402 @ 12" c.f.
5'-0
A404 as shown
A403 c.f. cut to first backwall joint
W407 c.f.
W605 c.f.
W606 c.f.
A401 c.f. 0'4"
W604 c.f.
3'-0
W501 @ 12" c.f.
W401 @ 12" c.f.
W403 @ 12" c.f.
W503 @ 12" c.f.
A401 @ 12" c.f.
A403 @ 12" c.f. cut to first backwall joint
W501 @ 12" c.f.
W401 @ 12" c.f.
W403 @ 12" c.f.
W503 @ 12" c.f.
A402
7'-0
12'-6"
5'-0
8'-0
Elev. 441.86
Elev. 440.78

WINGWALL ELEVATION

A404 as shown (A408@Bout.1)

VIEW E-E

For Expansion Joint Details see Dwg. No. 3374
Place Concrete in this area after placing deck concrete
For Anchor Bolts, See Dwg. No. 3385
Construction Joint
1'-0"
A402
3'-5"
A601
A401
10'-6"
Formed Concrete Pad See Dwg. No. 3385
1'-6"
6"
12 - #1001 as shown
A602 @ 12"
2'-6"
3"
1'-5"
4'-6"

SECTION A-A

8-W401
W601
W401
8-W403
3-W502 top with A601
3-W405

VIEW C-C

℄ Girder 6 = Working Line
POC 102+50.00
℄ Roadway
E Girder (Typ.)
40'-4"
14'-6½" = 120°-10½"
9 pile spaces @ 59°-7½"
63'-0
5'-0
See Detail 'A' Dwg. No. 3374
Backwall Joint 1 57'-5"
Backwall Joint 2 57'-5"
19 pile lengths
9 Girder spaces
37'-10"
37°23'52"
78'-0"
12'-6"
℄ Abut. Brg.
3369
See Detail 'A' Dwg. No. 3374 For Hinge details See View E-E

PLAN

Note: For Backwall Joint Details See Dwg. No. 3369

A407
W602
W402
8-W404
6-W504
3-W405

VIEW D-D

AS BUILT PLANS
R. Platzke — Date 4-28-78
Project Engineer
CORRECTIONS TRANSFERED
Tracings H. Leslie — Date 8-1-79
Checked — Date

Table of Elev. - Top of Formed Concrete Pad

Girder	Elev.	Girder	Elev.
1	444.53	6	442.21
2	444.90	7	444.03
3	444.74	8	443.84
4	444.57	9	443.65
5	444.39	15	443.45

Reinforcing Steel - Abutment & Wingwalls

Mark	Size	No.	Length	Type	Bend Diagrams
A401	#6	5	40'-0	—	
A402	#6	42	10'-4	—	
A403	#6	17	40'-0	—	
A404	#6	5*	5'-4	Bent	
A501	#6	42	10'-6	—	
A602	#6	141	13'-6	Bent	
A1001	#10	13	61'-0	—	
W401	#6	5	10'-8	—	
W402	#6	5	10'-8	—	
W403	#6	5	10'-4	—	
W404	#6	5	10'-10	—	
W405	#6	5	12'-3	—	
W406	#6	5	7'-9"	—	
W407	#6	5	13'-0"	—	
W408	#6	5	11'-3"	—	
W501	#6	5	varies	—	
W502	#6	5	varies	—	
W503	#6	5	11'-3"	—	
W504	#6	5	48'-4	Bent	
W505	#6	5	11'-2	Bent	
W601	#6	6	12'-2"	—	
W501	#6	6	15'-10"	—	
W502	#6	6	7'-9"	—	
W401	#6	6	20'-4"	—	
W402	#6	6	18'-3"	—	

* Includes 2 - #4 Bar splices

A602: 2'-6" x 4'-6"
W604: 7'-0" x 3'-6"
W605: 6'-0" x 3'-6"
W606: 7'-0" x 3'-6"
7'-4" to 9'-10" @ 4" increments W401 + W501
9'-5" to 11'-0" @ 2" increments W402 + W602

CHENA RIVER BRIDGE

ROUTE NO. F-62

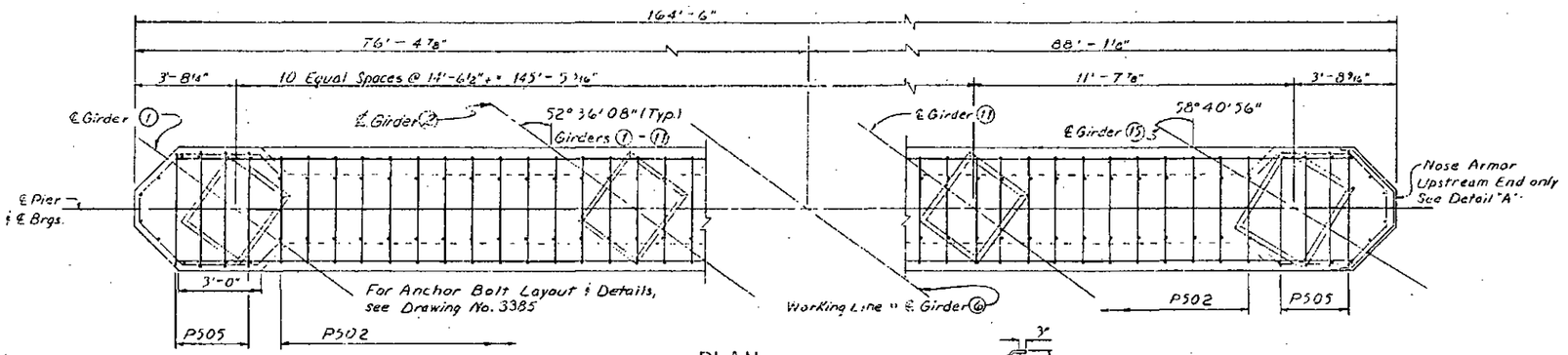
ABUTMENT # 4

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 5-31-78
Approved

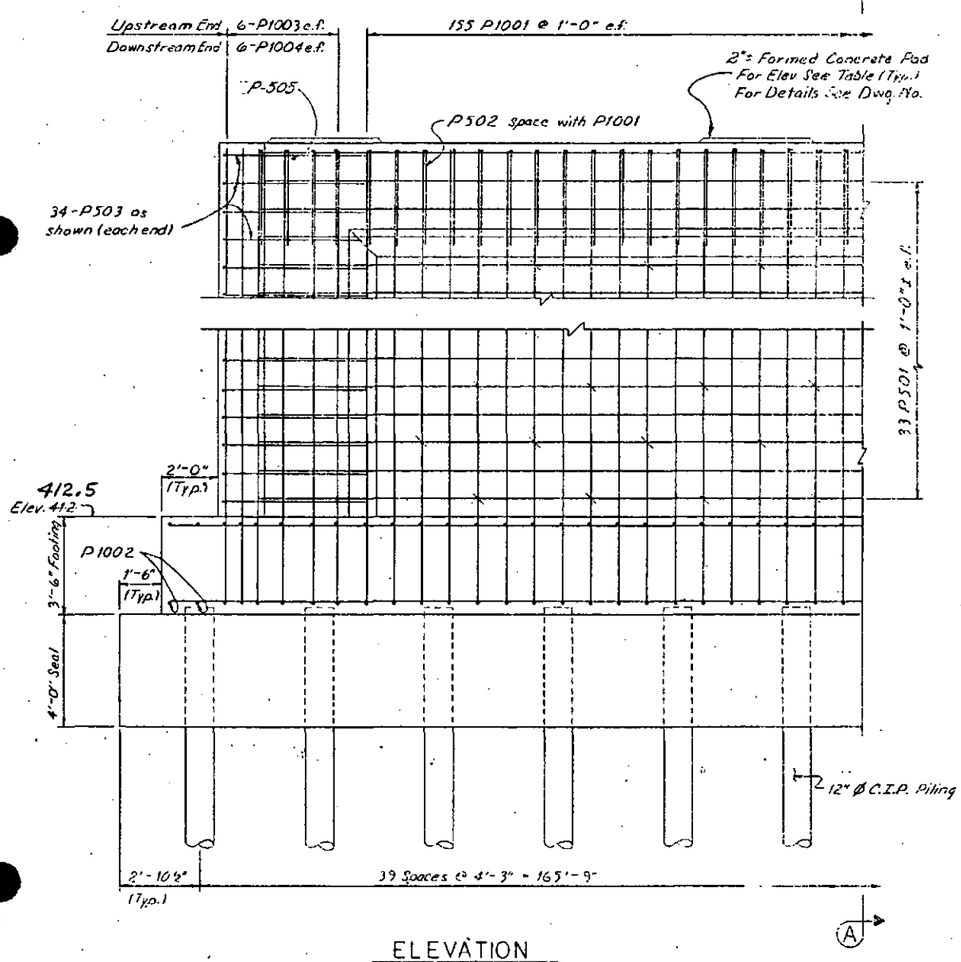
BRIDGE NO. 231
DWNG. NO. 3370

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	106	126

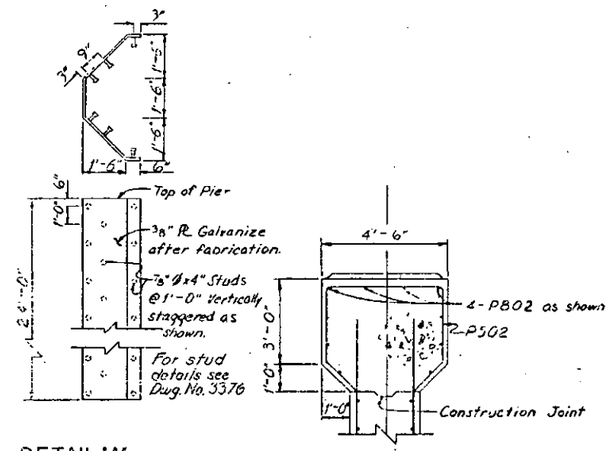


PLAN

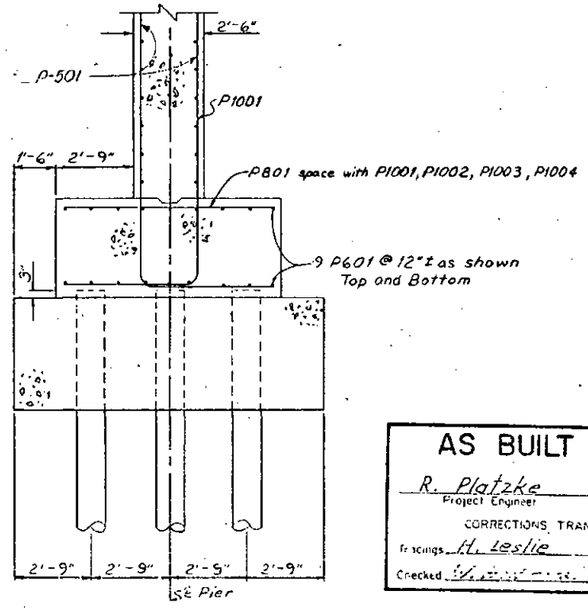
For Anchor Bolts, See Dwg No. 3385



ELEVATION



DETAIL "A"
(No Scale)

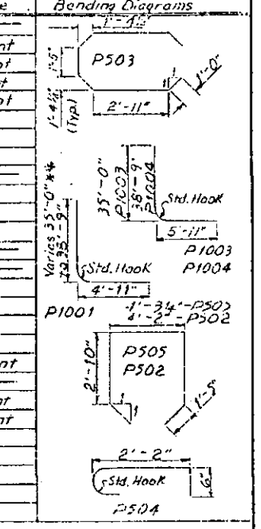


SECTION "A-A"

REINFORCING STEEL - PIER 2

Mark	Size	No	Length	Type
P501	5	66	166'-4"	—
P502	5	163	12'-8"	Bent
P503	5	68	13'-2"	Bent
P504	5	593	3'-3"	Bent
P505	5	8	12'-9"	Bent
P601	6	18	175'-2"	—
P801	8	171	7'-8"	—
P802	8	4	167'-4"	—
P1001	10	310	Varies**	Bent
P1002	10	4	7'-8"	—
P1003	10	12	40'-9"	Bent
P1004	10	12	47'-6"	Bent

Bending Diagrams



* Total length shown includes allowance for 4 lap splices 1'-3" long for P501, 4 lap splices 1'-9" long for P601, and 2 lap splices 3'-0" long for P802.

** May be varied uniformly or in steps not exceeding 6 inches.

Elevations - Top of Formed Concrete Pad

Girder No.	Elevation	Girder No.	Elevation
1	448.42	7	446.61
2	448.36	8	446.25
3	448.02	9	445.87
4	447.68	10	445.49
5	447.33	11	445.10
6	446.97	15	444.70

AS BUILT PLANS

R. Platzke Date 4-28-78
Project Engineer

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 5-1-79

Checked [illegible] Date [illegible]

CHENA RIVER BRIDGE

ROUTE NO. F-62

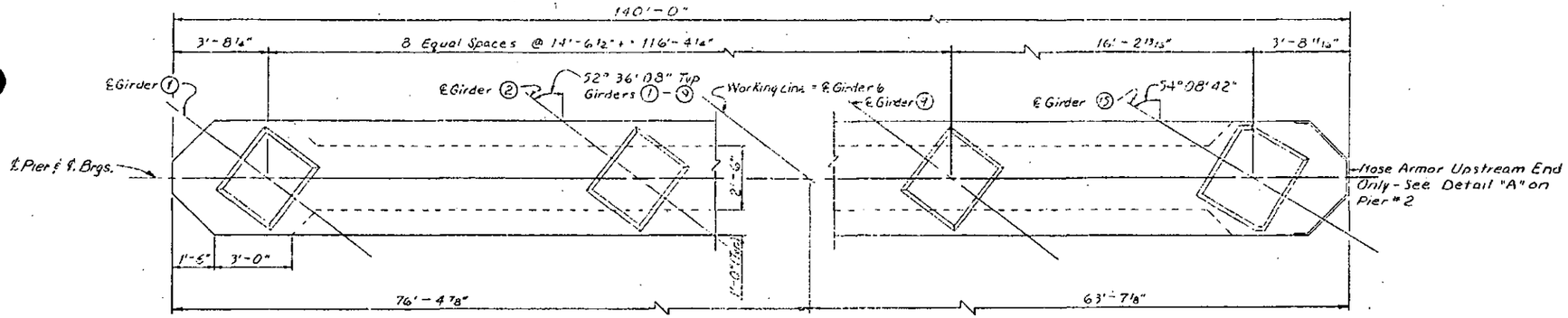
PIER NO. 2

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date [illegible]
Approved [illegible]

BRIDGE NO. 231
DWNG. NO. 3371

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	107	126



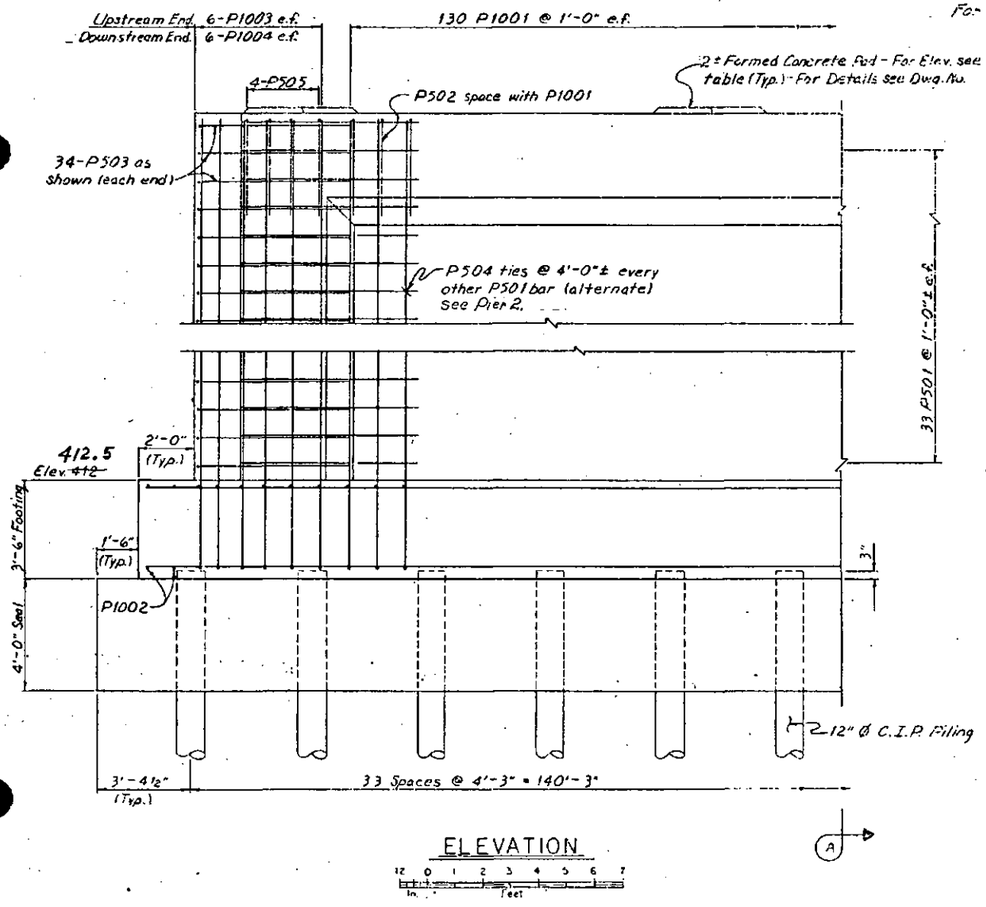
For Anchor Bolts, See Dwg No. 3385

For Reinforcing Layout, See Pier 2.

PLAN

12 0 1 2 3 4 5 6 7
In. Feet

For Section "A-A", See Dwg. No. 3371



ELEVATION

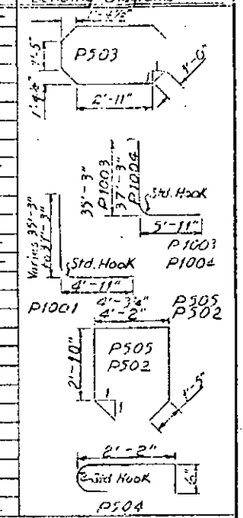
12 0 1 2 3 4 5 6 7
In. Feet

Elevations - Top of Formed Concrete Pad

Girder No.	Elevation		Girder No.	Elevation
1	447.02		7	445.72
2	446.95		8	445.46
3	446.72		9	445.19
4	446.48		15	444.88
5	446.23			
6	445.98			

REINFORCING STEEL - PIER 3

MARK	Size	No	Length	Type	Bending Diagrams
P501	5	66	*140'-6"	——	
P502	5	130	12'-8"	Bent	
P503	5	68	13'-2"	Bent	
P504	5	488	3'-3"	Bent	
P505	5	8	12'-9"	Bent	
P601	6	18	*148'-11"	——	
P801	8	166	7'-8"	——	
P802	3	4	*163'-0"	——	
P1001	10	260	Varies**	Bent	
P1002	10	4	7'-8"	——	
P1003	10	12	43'-0"	Bent	
P1004	10	12	43'-0"	Bent	



* Total length shown, includes allowance for 3 lap splices 1'-3" long for P501, 3 lap splices 1'-9" long for P601, and 2 lap splices 3'-0" long for P1302.

** May be varied uniformly or in steps not exceeding 6 inches.

AS BUILT PLANS

R. Pletke Project Engineer Date 4-28-78

CORRECTIONS TRANSFERED

Tracings R. L. Pletke Date 8-1-79

Checked [illegible] Date 8-2-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

PIER NO. 3

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

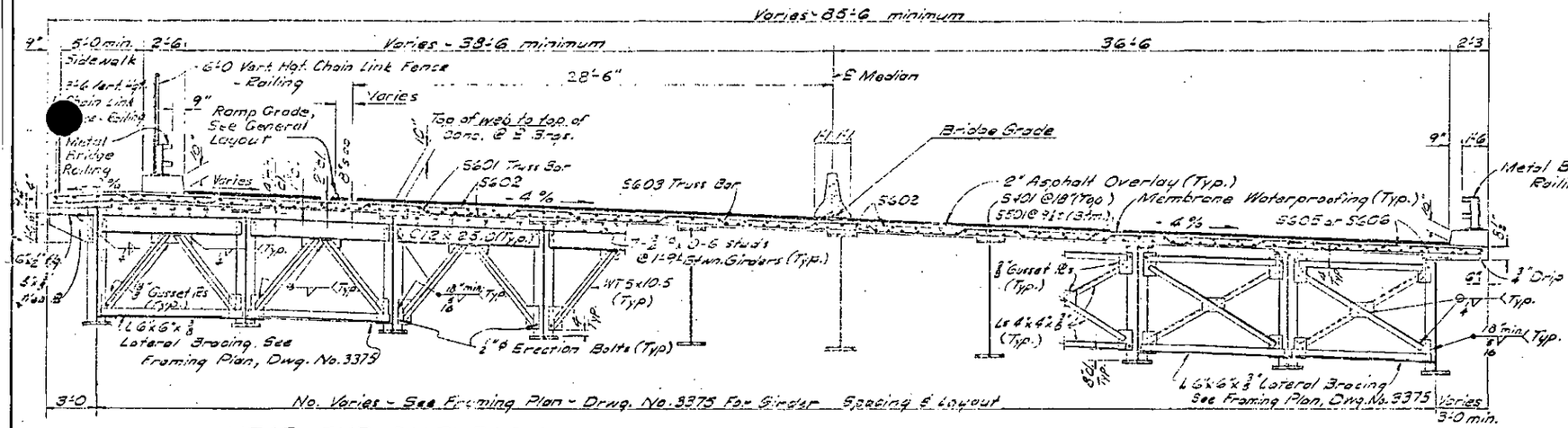
Date [illegible]

Approved [illegible]

BRIDGE NO. 231

DWNG. NO. 337.2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	108	126



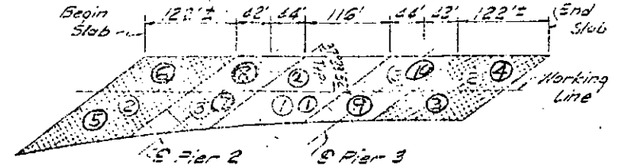
NEAR END DIAPHRAGM

NEAR INTERMEDIATE DIAPHRAGMS

TYPICAL SECTION

0 5 10 Feet

Note:
For Reinforcing Bar List, Details See Drwg. No. 3374

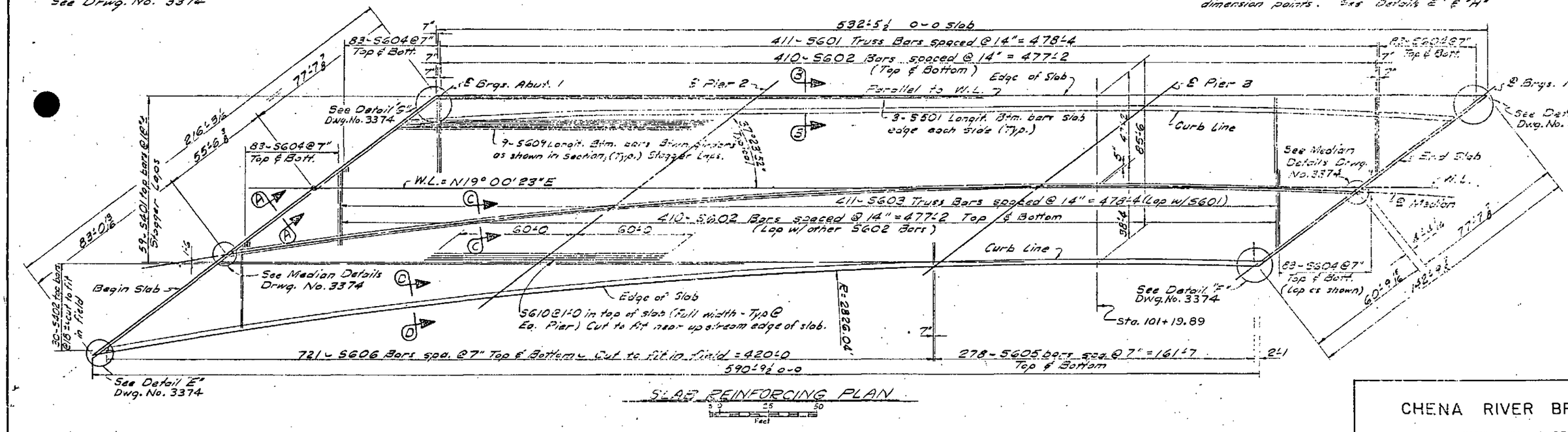


SLAB PLACING SEQUENCE
(No Scale)

Note:
Deck sections shall be placed in the numbered sequence shown. Like numbered sections may be placed sequentially, but no higher numbered sections shall be placed until all lower numbered sections have been placed.

Stepped construction joints in the deck will not be allowed.

Longitudinal deck joints are subject to approval by the Engineer. Any proposal for longitudinal joints shall include checked computations for stresses and for adjusted screed support elevations.
Dimensions to Southeast & Northwest corners are to theoretical dimension points. See Details "E" & "H"



SLAB REINFORCING PLAN

0 25 50 Feet

Note:
Dimensions shown are @ + 20° F

AS BUILT PLANS
R. Platzke Date 4-23-78
Project Engineer
CORRECTIONS TRANSFERED
Tracings H. Leslie Date 8-1-79
Checked Date

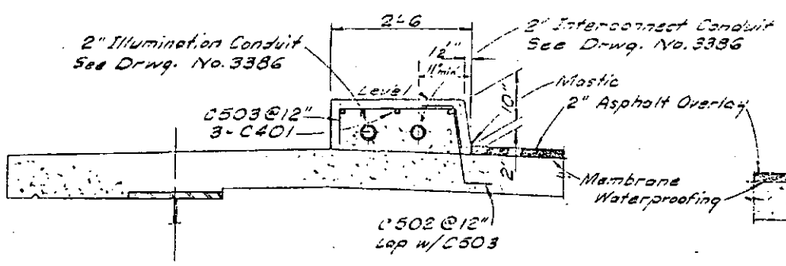
CHENA RIVER BRIDGE
ROUTE NO. F-62
TYPICAL SECTION

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

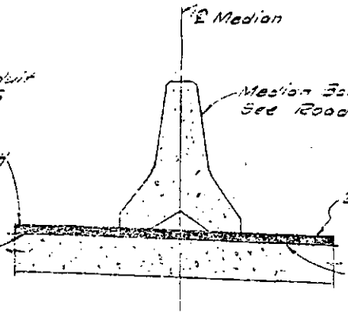
BRIDGE NO. 231
DWNG. NO. 3373

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-1(25)	1975	109	126

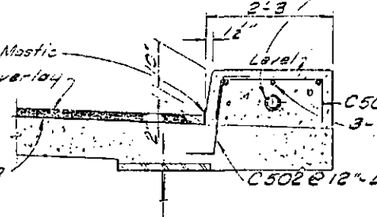


(See Details "G" & "H")

SECTION B-B



SECTION C-C



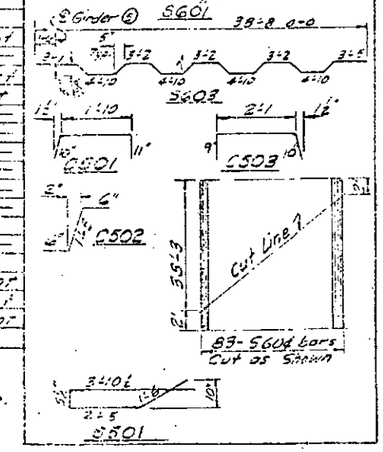
(See Details "E" & "F")

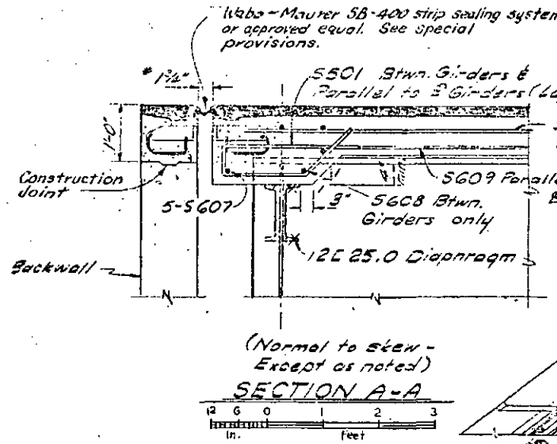
SECTION D-D

** ADDENUM No. 4

SLAB REINFORCING STEEL					
MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAMS
S401	4	59	2'-3"		38'-8 0-0
S402	4	30	Varies		
S501	5	212	3'-3	Bent	
S601	6	411	40'-0	Bent	℄ Girder ④ S601 38'-8 0-0
S602	6	222	40'-0		
S603	6	411	20'-0	Bent	S603
S604	6	156	20'-3	Cut	
S605	6	556	13'-5		
S606	6	1412	Varies		
S607	6	5	Varies		
S608	6	23	7'-3		
S609	6	136	Varies		
S610	6	203	15'-0		
C401	4	2	Varies		
C501	5	596	3'-7	Bent	
C502	5	1132	2'-6	Bent	
C503	5	536	3'-6	Bent	

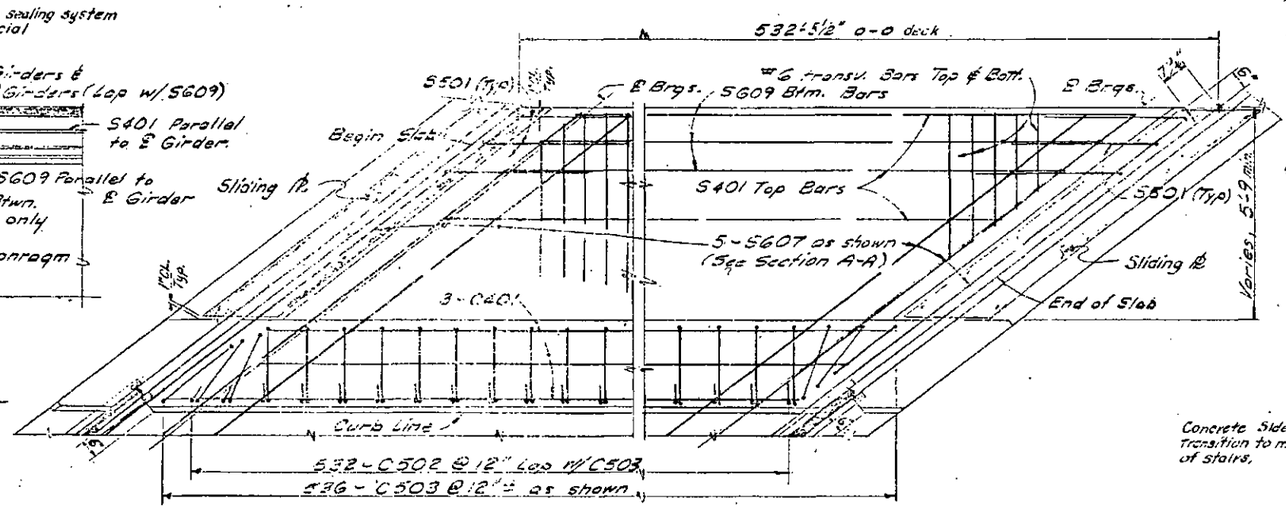
* No allowance for Lap included in Length shown.





(Normal to skew - Except as noted)

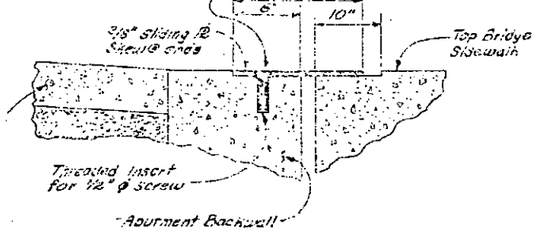
SECTION A-A



DETAIL "G"

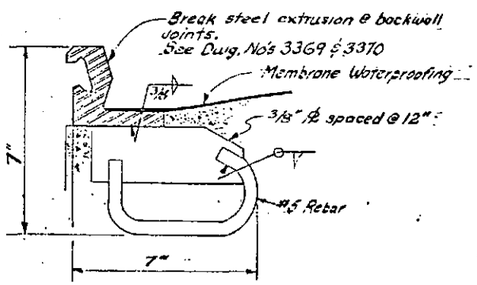
DETAIL "H"

* Dimension @ +20°F normal to skew. Vary 3/16" @ Abut. 4 & 1/16" @ Abut. 1 for each 10°F change in temperature.



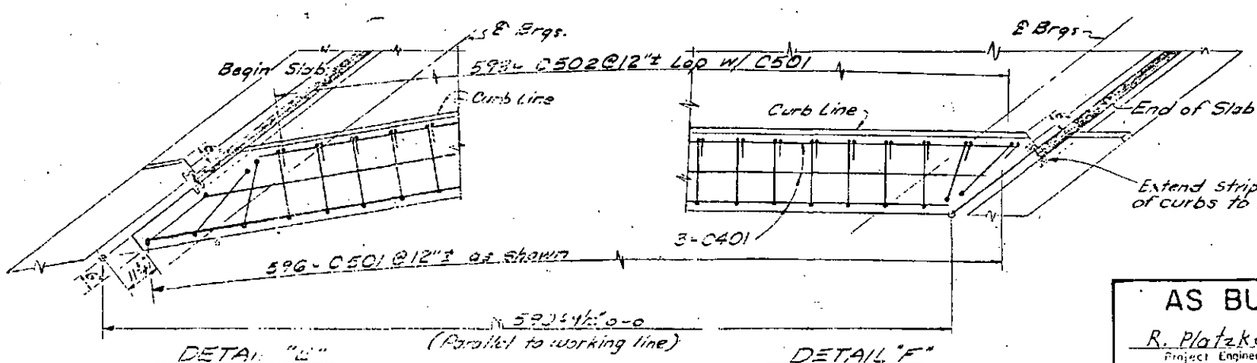
SIDEWALK EXP. JOINT DETAIL

— No Scale —



JOINT SEALER

— No Scale —



DETAIL "E"

DETAIL "F"

AS BUILT PLANS

R. Platzke — Project Engineer — Date 4-28-78

CORRECTIONS TRANSFERED

Tracings H. Leslie — Date 8-1-77

Checked W. Halloran — Date 8-17-77

CHENA RIVER BRIDGE

ROUTE NO. F-62

MISC. SLAB DETAILS

State of Alaska

DEPARTMENT OF HIGHWAYS

Juneau, Alaska

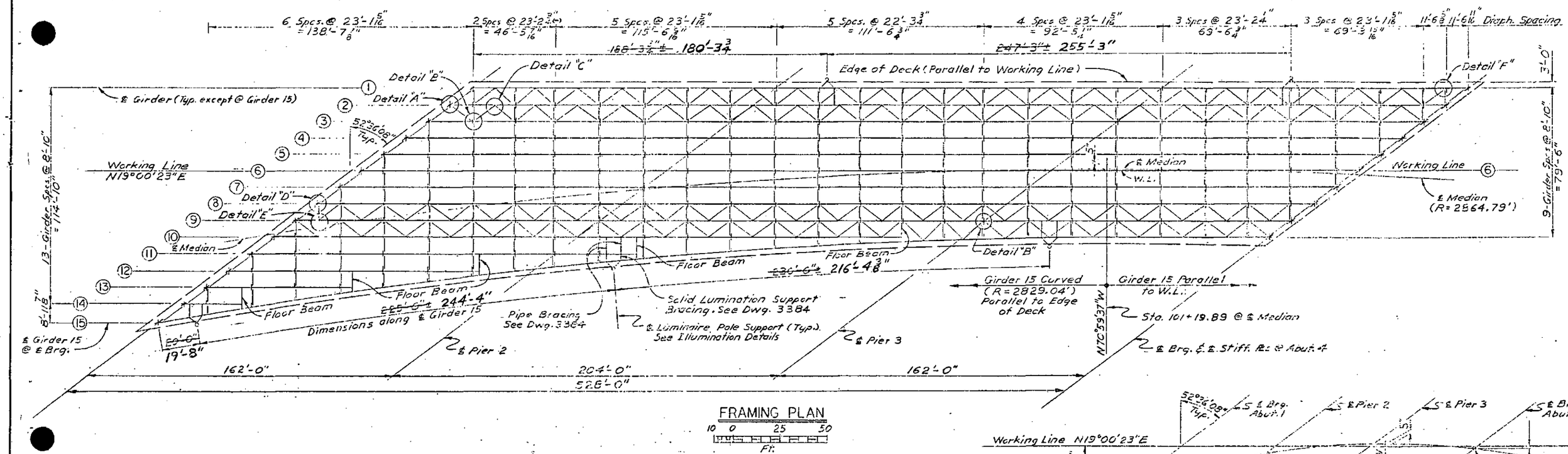
Date 5-24-78

Approved

BRIDGE NO. 231

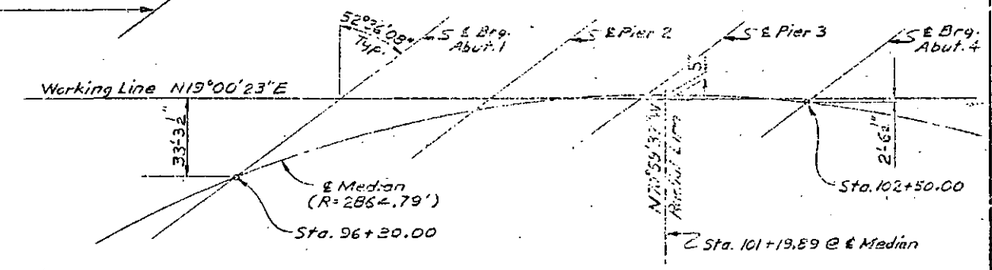
DWNG. NO. 3374

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	110	126

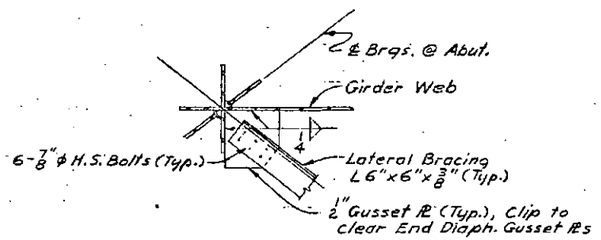


FRAMING PLAN

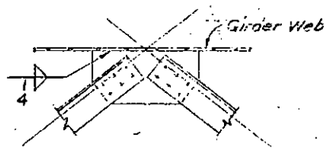
10 0 25 50
Ft.



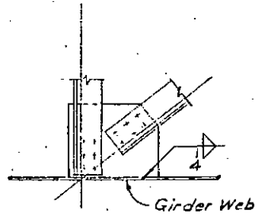
LAYOUT SKETCH
(No Scale)



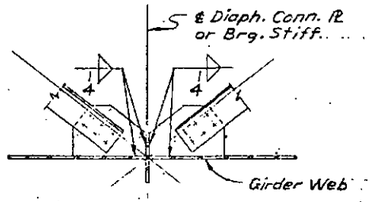
DETAIL "A"



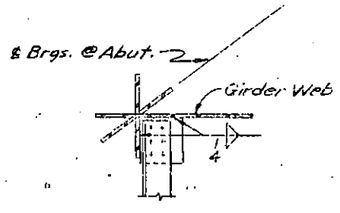
DETAIL "C"



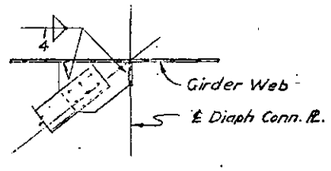
DETAIL "E"



DETAIL "B"



DETAIL "D"



DETAIL "F"

LATERAL BRACING DETAILS
(No Scale)

AS BUILT PLANS

R. Platzke Date 4-28-73
Project Engineer

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 8-1-79
Checked [illegible] Date [illegible]

CHENA RIVER BRIDGE

ROUTE NO. F-62

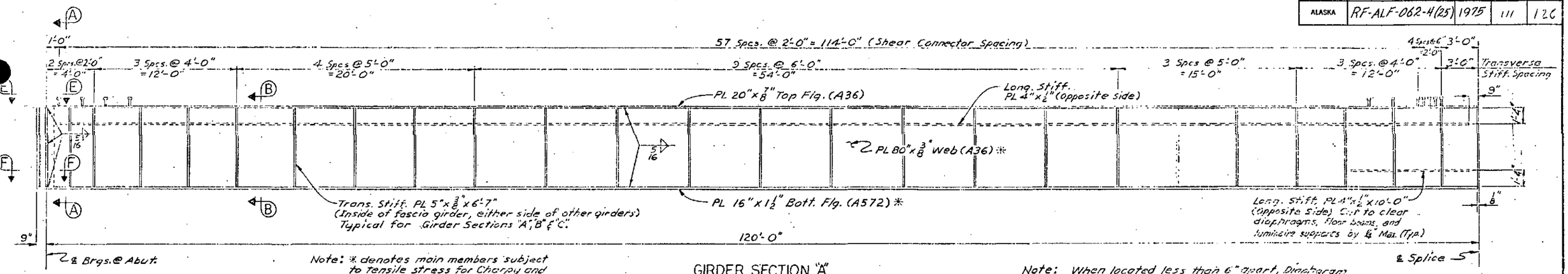
FRAMING PLAN

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date [illegible]
Approved [illegible]

BRIDGE NO. 231
DWNG. NO. 3375

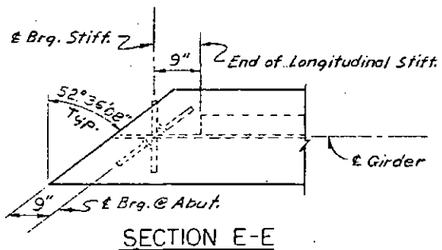
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	111	126



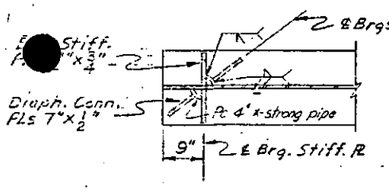
Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.

GIRDER SECTION "A"
12 0 5 10
In. Ft.

Note: When located less than 6" apart, Diaphgram Connection plate shall be used in place of Transverse Stiffener Plate. See Framing Plan for Diaphgram Spacing.

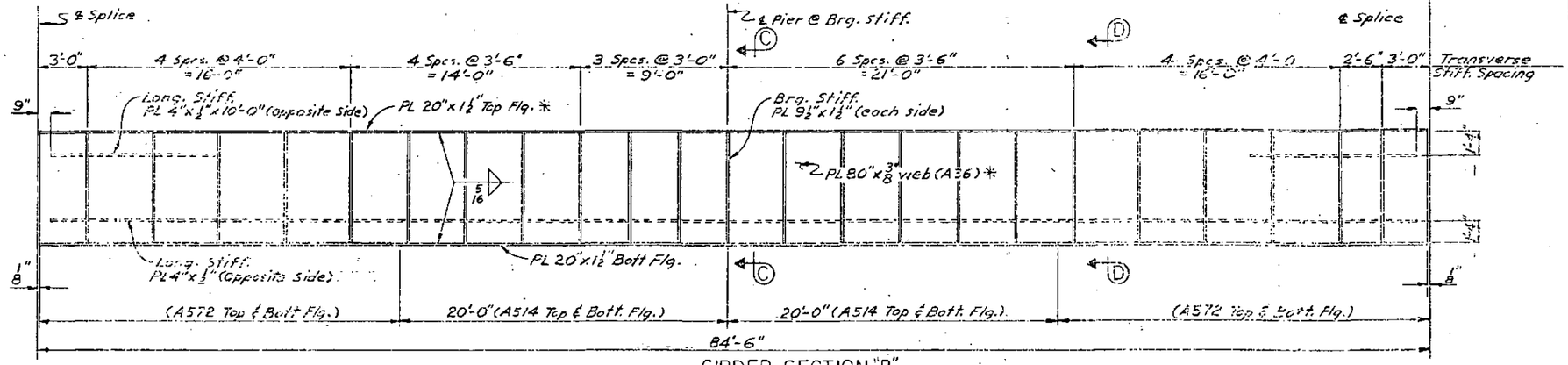


SECTION E-E
(No Scale)



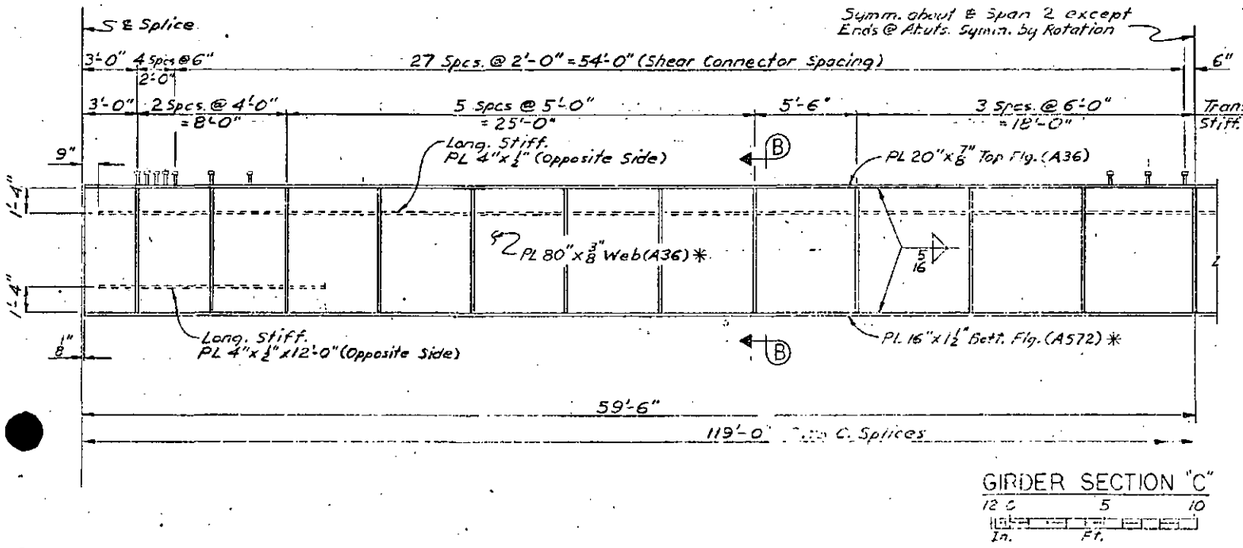
SECTION F-F
(No Scale)

AS BUILT PLANS
R. Platzke Date 4-28-78
Project Engineer
CORRECTIONS TRANSFERED
Tracings A. Leslie Date 8-1-79
Checked W. McCarrick Date 8-2-79

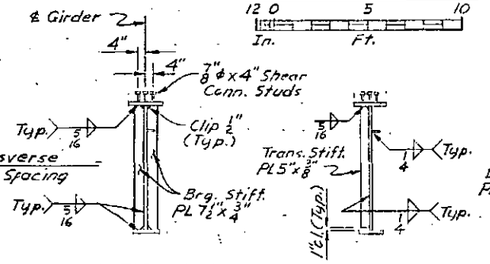


GIRDER SECTION "B"
12 0 5 10
In. Ft.

Note: For Girder ⑨ only, replace diaphragm connector plate with 6"x½" Floor Beam connector plate at Floor Beam from Girder ⑩ (See Framing Plan).

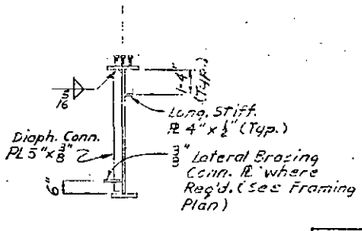


GIRDER SECTION "C"
12 0 5 10
In. Ft.



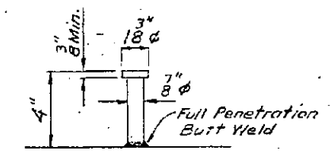
SECTION A-A
(No Scale)

AT TRANSVERSE STIFF PL

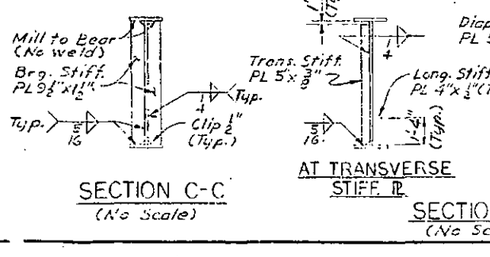


AT LATERAL BRACING CONN. PL

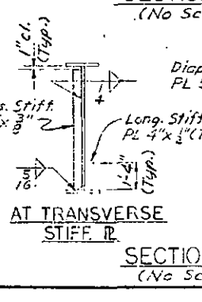
SECTION B-B
(No Scale)



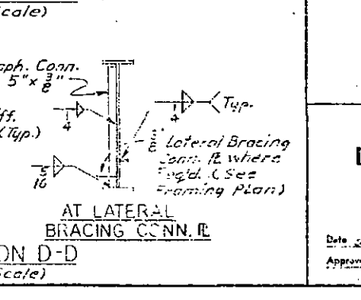
SHEAR CONNECTOR
(No Scale)



SECTION C-C
(No Scale)



AT TRANSVERSE STIFF PL



AT LATERAL BRACING CONN. PL

SECTION D-D
(No Scale)

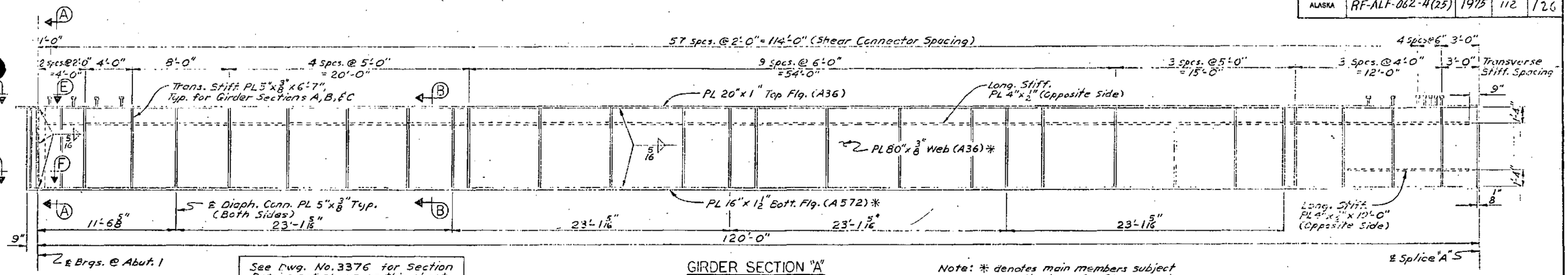
CHENA RIVER BRIDGE
ROUTE NO. F-62
GIRDERS 1 Thru 9

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 8-30-78
Approved

BRIDGE NO. 231
DWNG. NO. 3376

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	112	126

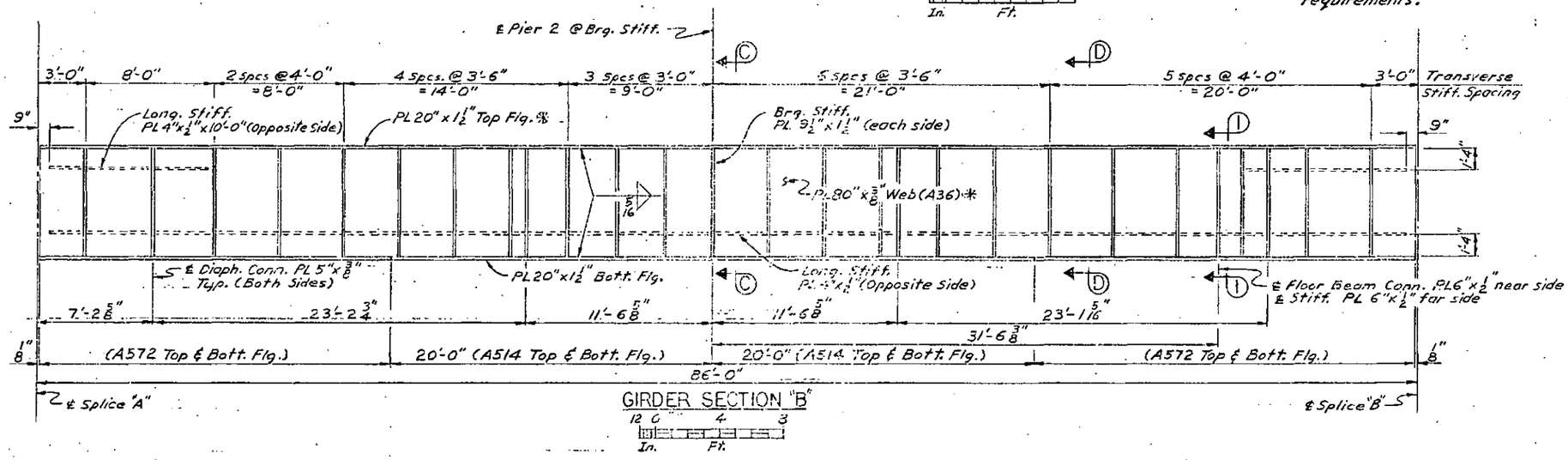


See Dwg. No. 3376 for Section Details not shown on this sheet.

GIRDER SECTION "A"

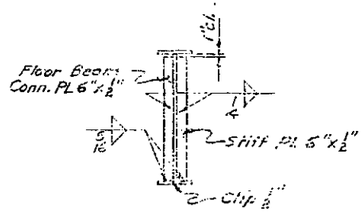
12 0 4 8
In. Ft.

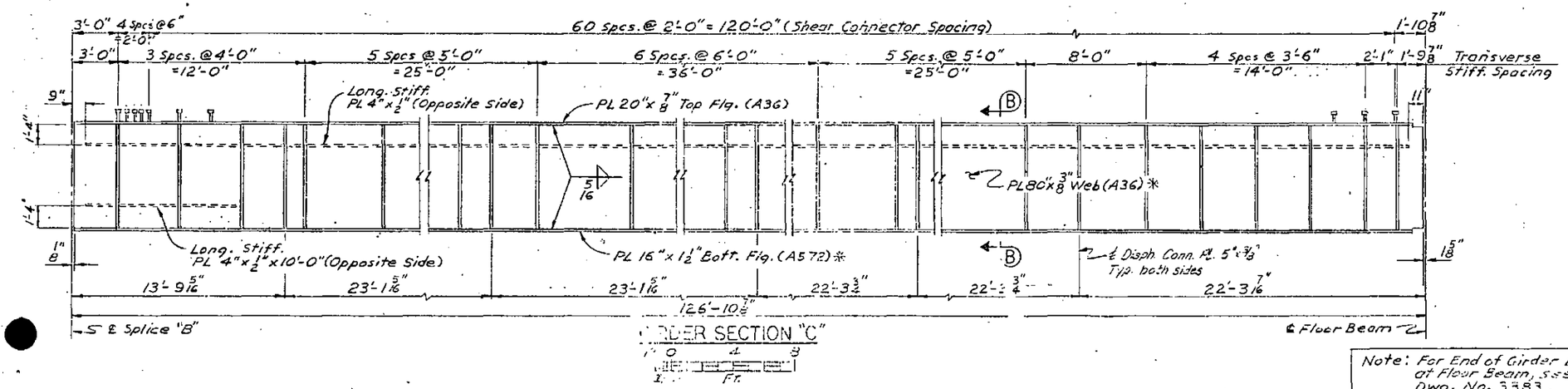
Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.



GIRDER SECTION "B"

12 0 4 8
In. Ft.





GIRDER SECTION "C"

1" 0 4 8
In. Ft.

Note: For End of Girder Detail at Floor Beam, see Dwg. No. 3383.

AS BUILT PLANS

R. Platzke — Date 4-28-78
Project Engineer

CORRECTIONS TRANSFERED

Tracings H. Leslie — Date 8-1-79

Checked J. Holbrook — Date 8-2-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

GIRDER 10

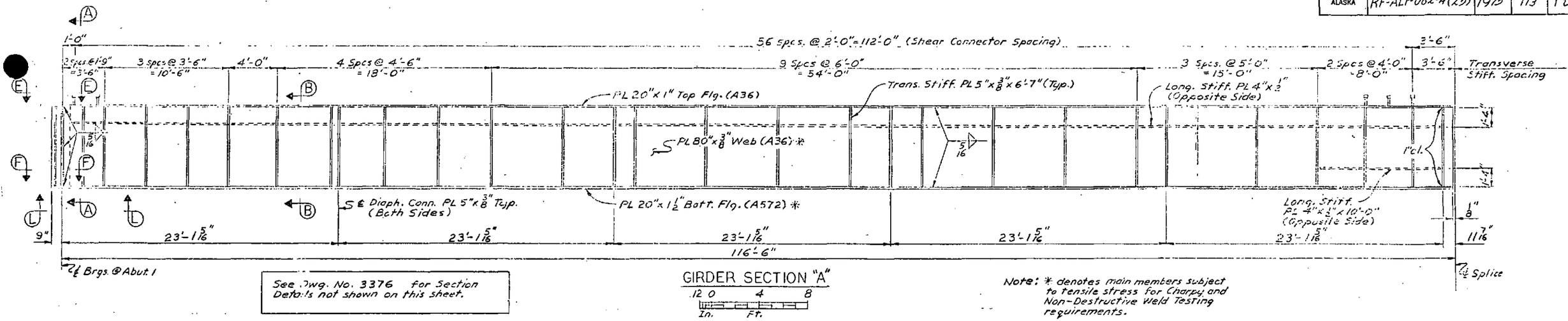
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

BRIDGE NO. 231

DWNG. NO. 3377

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	113	126

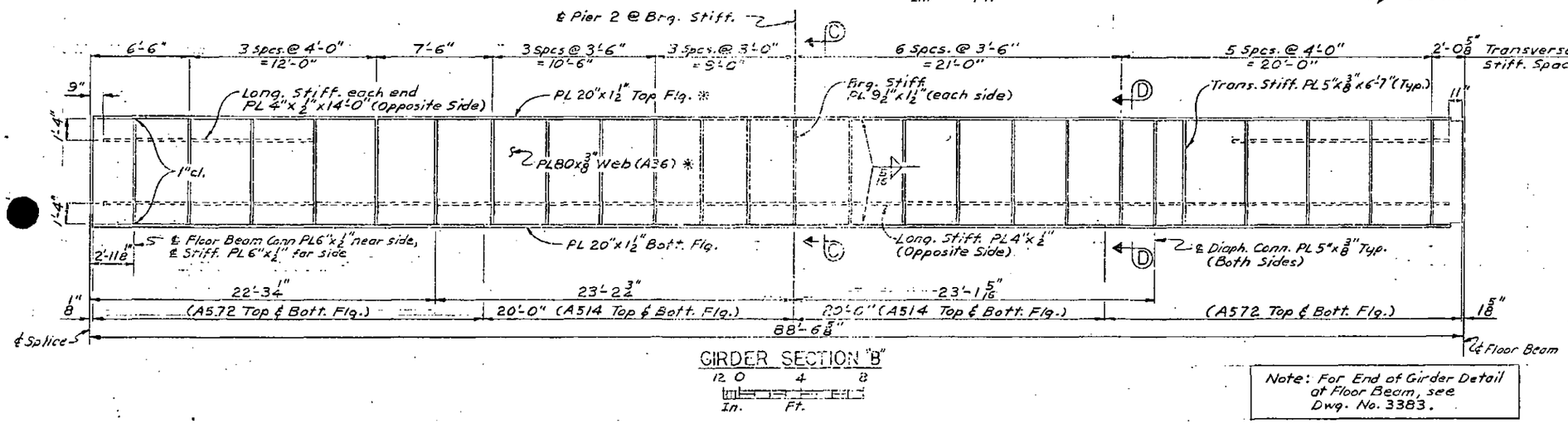


See Dwg. No. 3376 for Section Details not shown on this sheet.

GIRDER SECTION "A"

12 0 4 8
In. Ft.

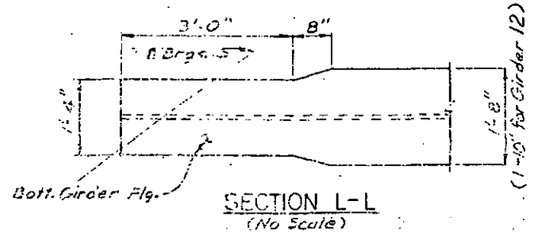
Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.



GIRDER SECTION "B"

12 0 4 8
In. Ft.

Note: For End of Girder Detail at Floor Beam, see Dwg. No. 3383.



SECTION L-L
(No Scale)

AS BUILT PLANS

R. Plahke
Project Engineer
Date 4-28-78

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 8-1-79

Checked W. Hoffman Date 8-2-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

GIRDER II

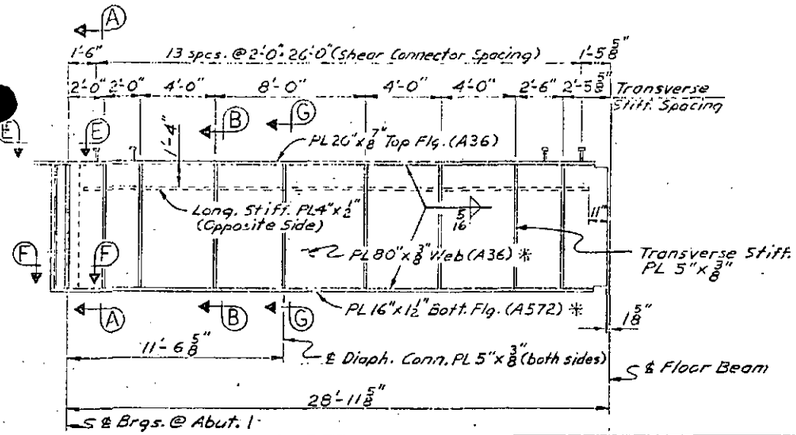
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

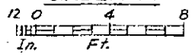
BRIDGE NO. 231

DWNG. NO. 3378

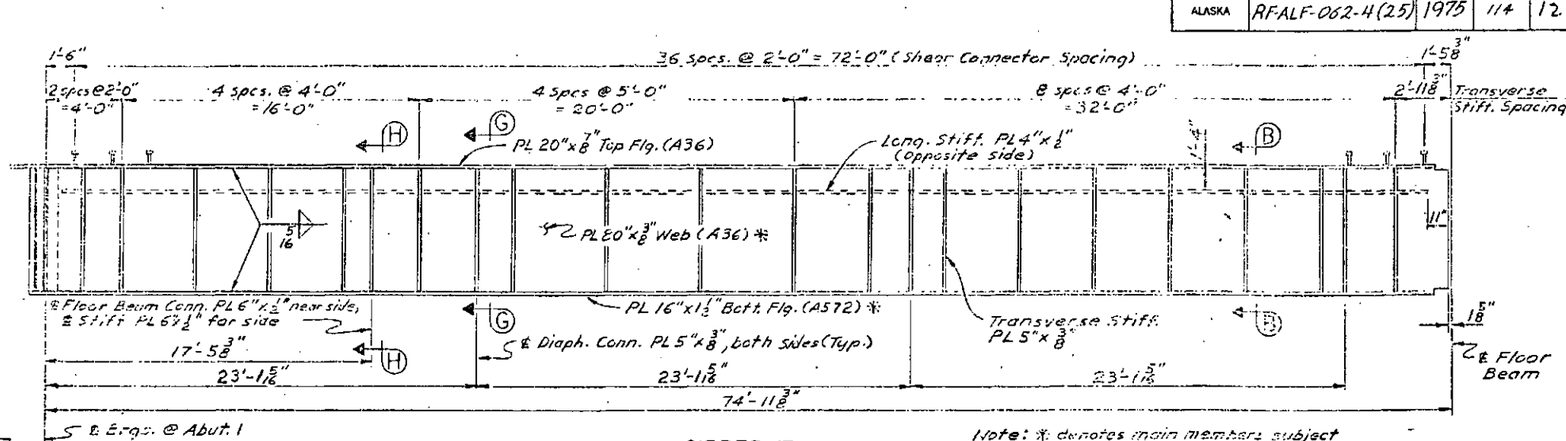
STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	114	126



GIRDER 14

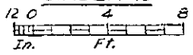


See Dwg. No. 3376 & 3378 for Section Details not shown on this sheet.

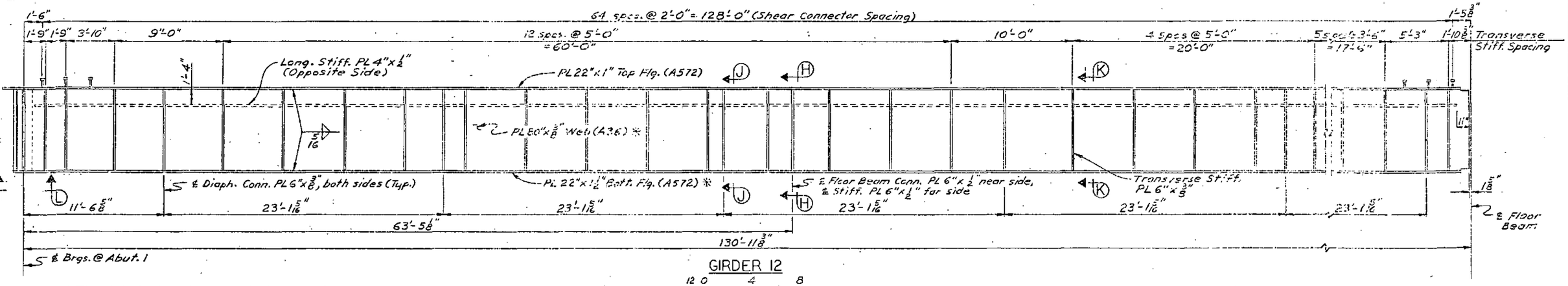


Note: The details at abutment end of Girder 13 are the same as Girder 14.

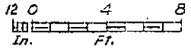
GIRDER 13



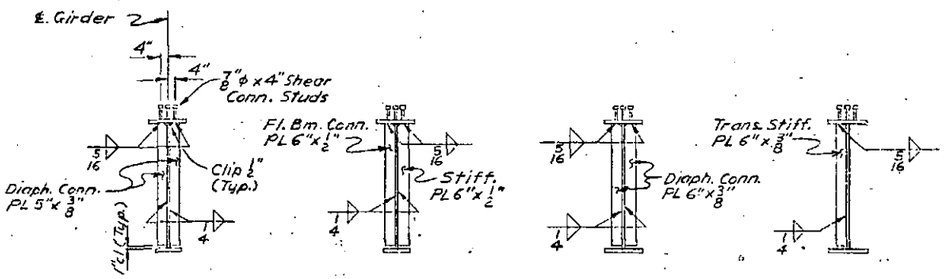
Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.



GIRDER 12



Note: The details at abutment end of Girder 12 are the same as Girder 14 except for size of girder flanges.

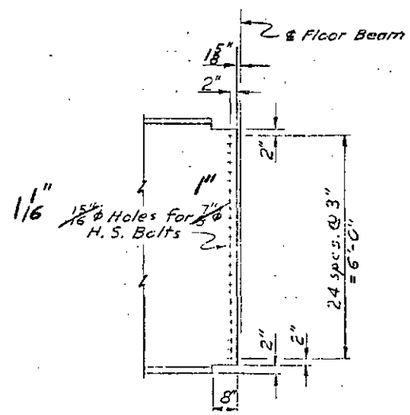


SECTION G-G (No Scale)

SECTION H-H (No Scale)

SECTION J-J (No Scale)

SECTION K-K (No Scale)



END OF GIRDERS AT FLOOR BEAMS (No Scale)

AS BUILT PLANS

R. Pletzke Date 4-28-78
Project Engineer

CORRECTIONS TRANSFERED

Tracings E. Leslie Date 8-1-79

Checked W. Holbrook Date 8-2-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

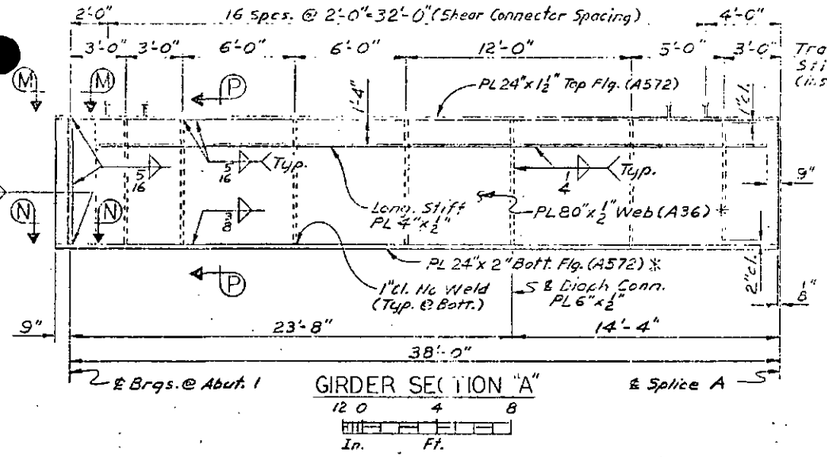
GIRDERS 12, 13 & 14

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

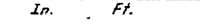
Date Sept. 75
Approved C. Hammond

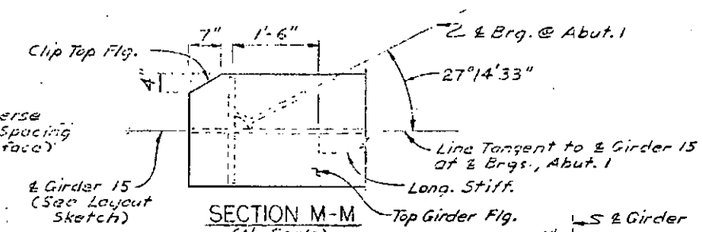
BRIDGE NO. 231
DWNG. NO. 3379

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-1(25)	1975	115	126

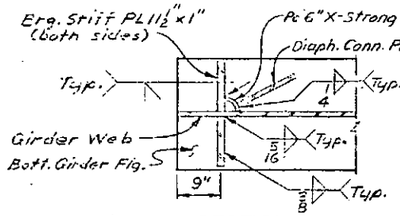


GIRDER SECTION "A"

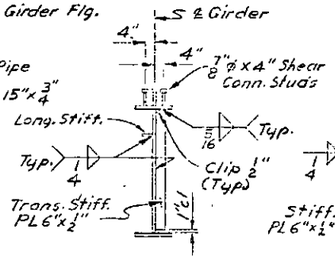




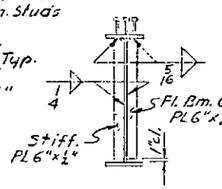
SECTION M-M
(No Scale)



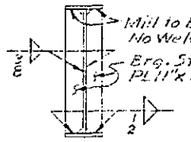
SECTION N-N
(No Scale)



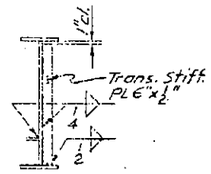
SECTION P-P



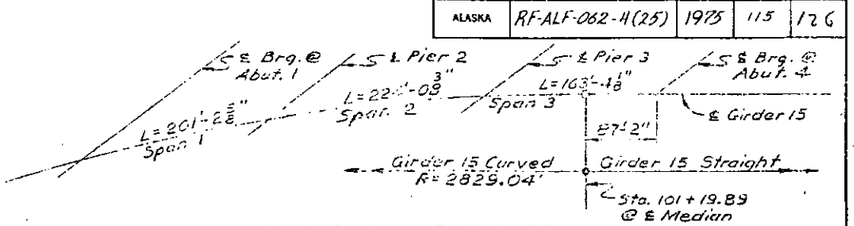
SECTION Q-Q



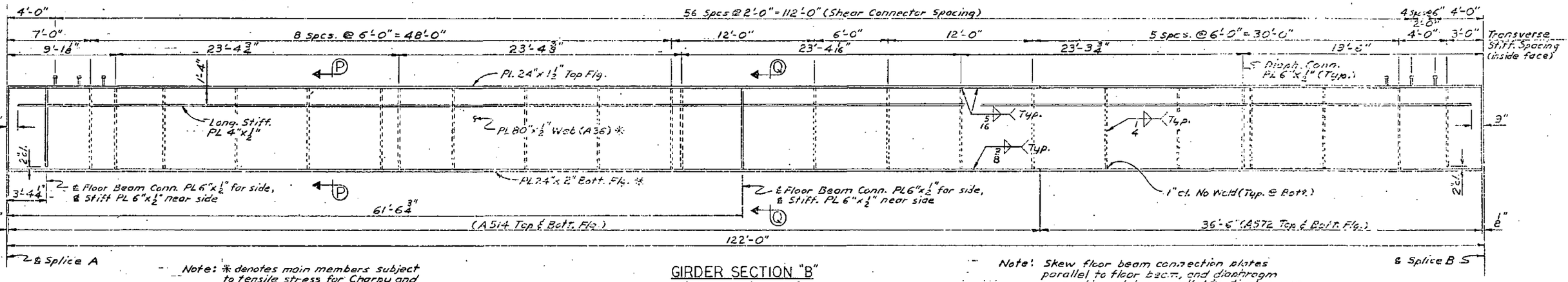
SECTION R-R



SECTION S-S



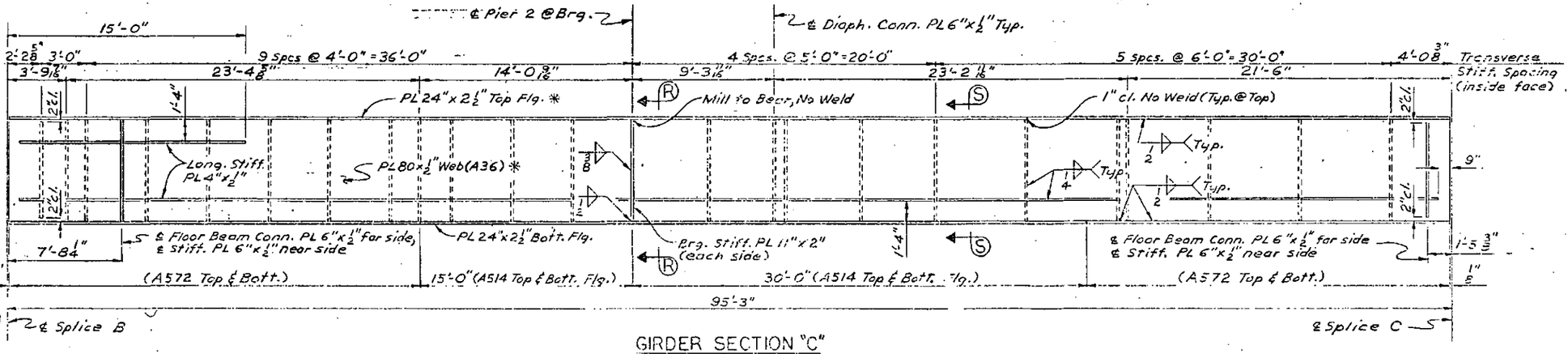
GIRDER 15 LAYOUT SKETCH
(No Scale)



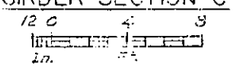
Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.

GIRDER SECTION "B"

Note: Skew floor beam connection plates parallel to floor beam, and diaphragm connection plates parallel to diaphragms.



GIRDER SECTION "C"



AS BUILT PLANS

R. Platzke, Project Engineer — Date 4-28-78

CORRECTIONS TRANSFERED

Tracings H. Leslie — Date 8-1-79

Checked [illegible] — Date 8-2-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

GIRDER 15 (A)(B)(C)

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

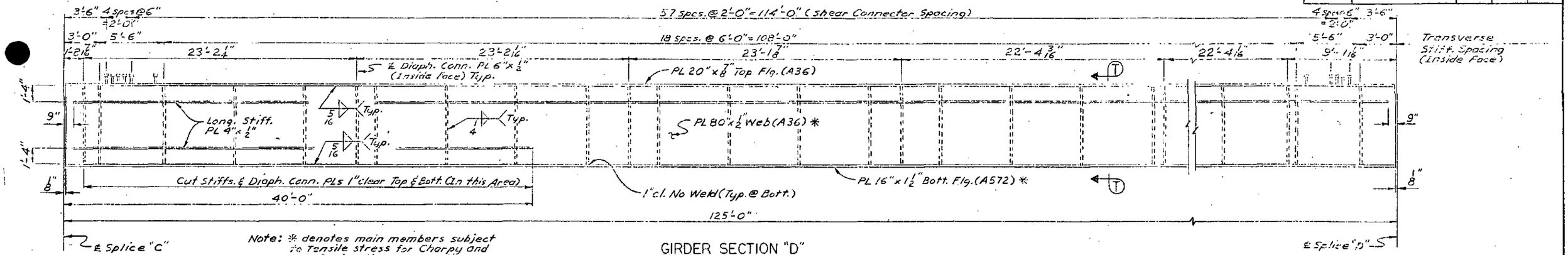
Date [illegible]

Approved [illegible]

BRIDGE NO. 231

DWNG. NO. 3380

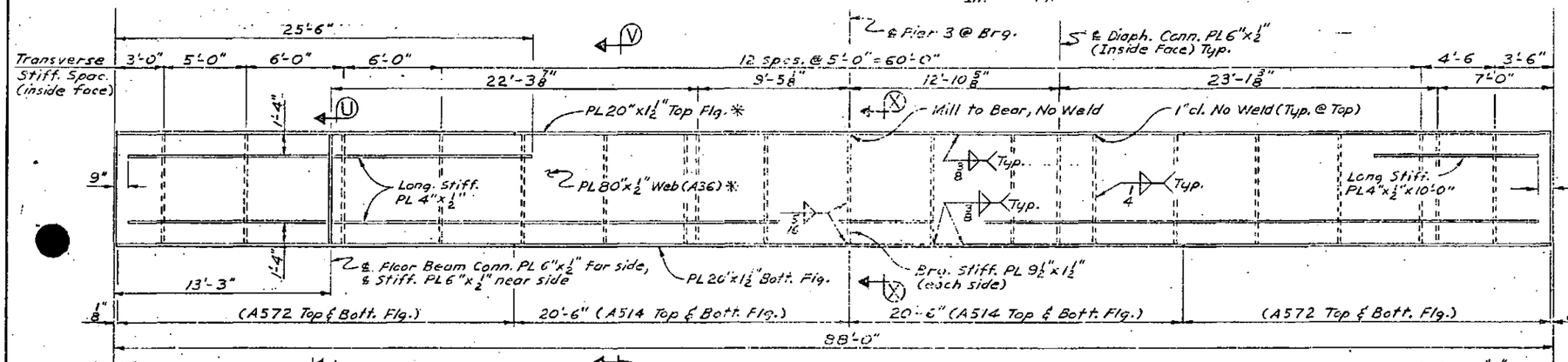
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	116	126



Note: * denotes main members subject to tensile stress for Charpy and Non-Destructive Weld Testing requirements.

GIRDER SECTION "D"

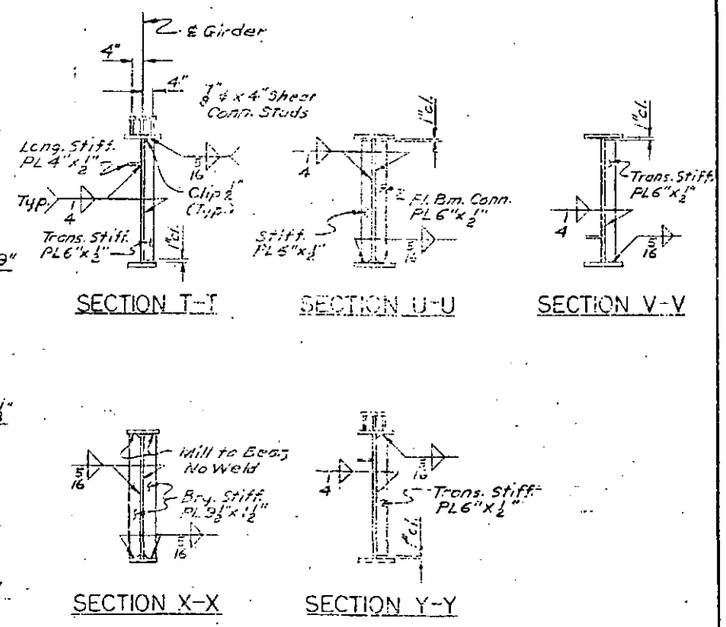
12 0 4 8
In. Ft.

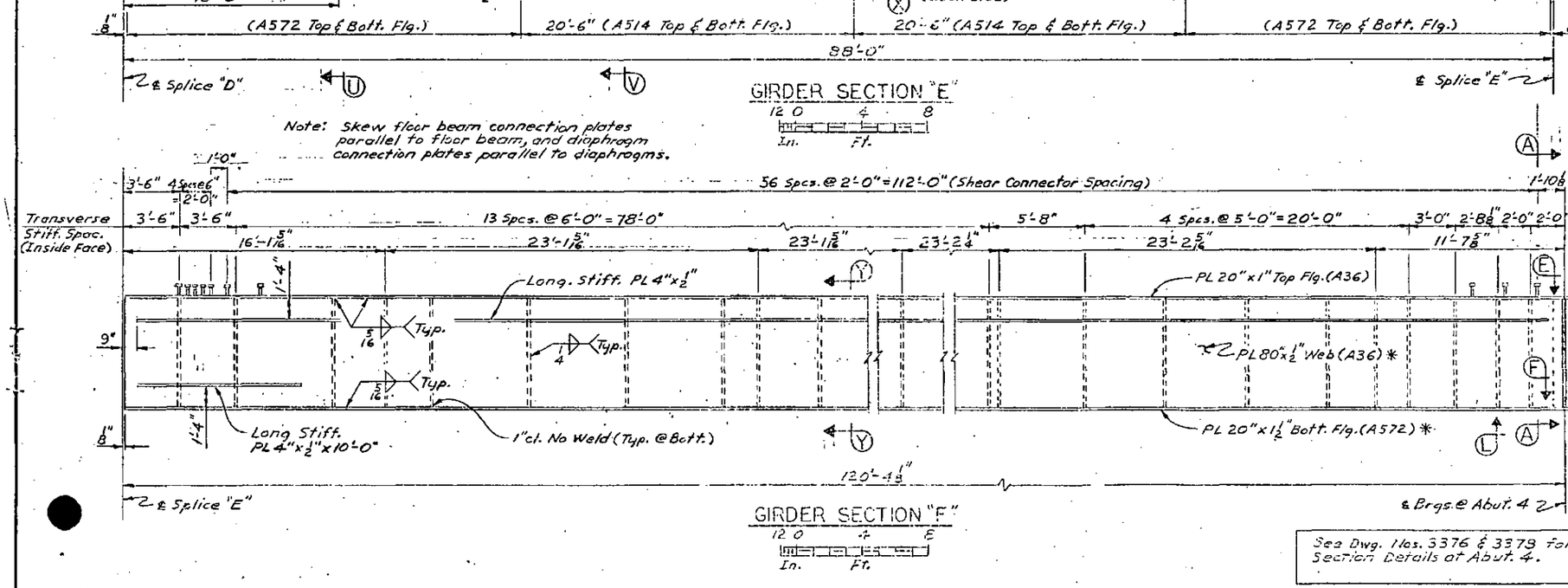


GIRDER SECTION "E"

12 0 4 8
In. Ft.

Note: Skew floor beam connection plates parallel to floor beam, and diaphragm connection plates parallel to diaphragms.





GIRDER SECTION "F"

12 0 4 8
In. Ft.

See Dwg. Nos. 3376 & 3379 for Section Details at Abut. 4.

AS BUILT PLANS
R. Platzke Date 4-28-78
Project Engineer
CORRECTIONS INCORPORATED
Tracings Date 8-1-79
Checked Date

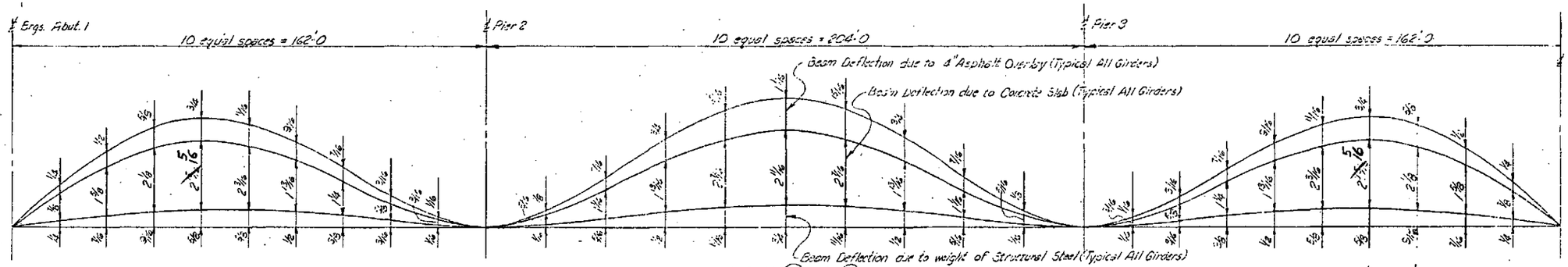
CHENA RIVER BRIDGE
ROUTE NO. F-62
GIRDER 15 (B)(D)(E)(F)

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

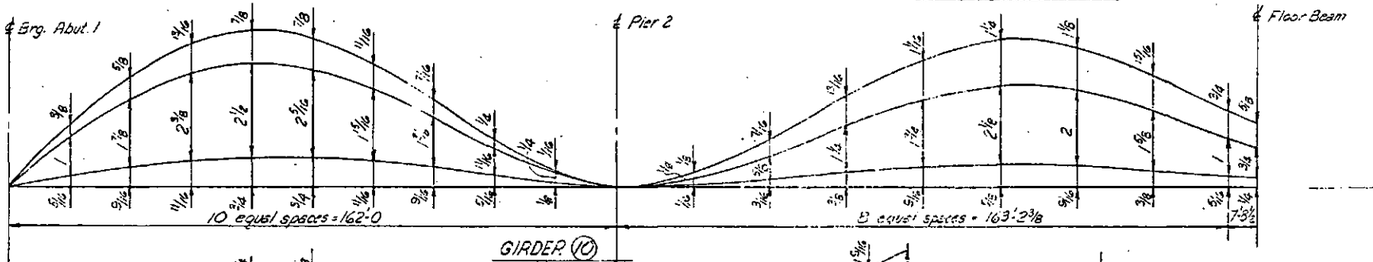
Date
Approved

BRIDGE NO. 231
DWNG. NO. 3381

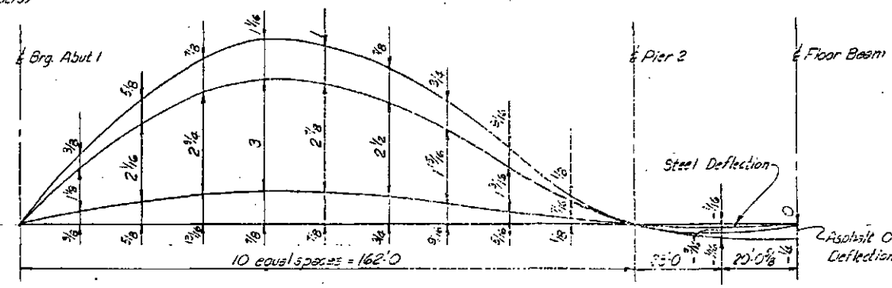
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25	1975	117	126



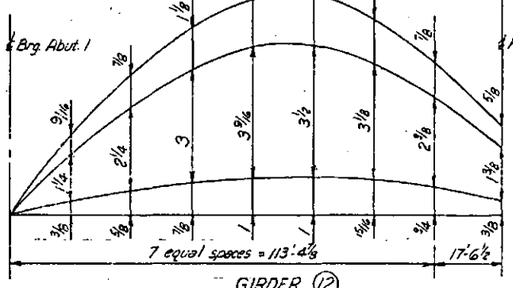
GIRDERS (1) THRU (9)



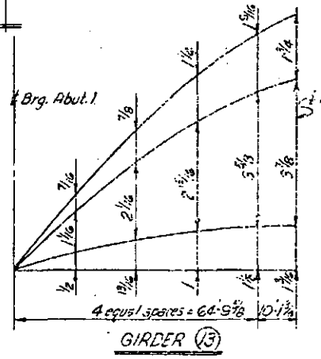
GIRDER (10)



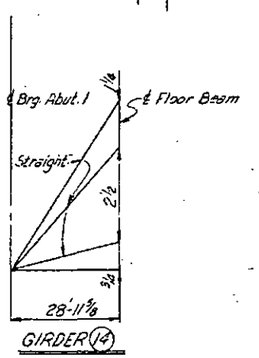
GIRDER (11)



GIRDER (12)



GIRDER (13)



GIRDER (14)

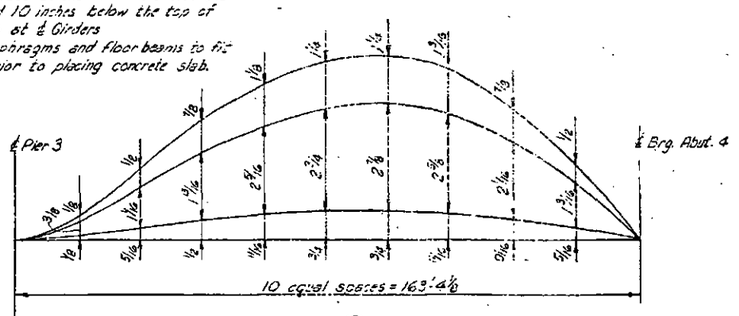
Note: Camber shown includes deflections caused by the weight of the steel girders and diaphragms, the weight of the concrete slab, and the weight of 4 inches of asphalt overlay. Further allowance in girder grade to compensate for roadway vertical curve, sidewalk slope, off-ramp grades, and offset effects of straight girders, shall be made. The final girder grade at the top of the wet slab be parallel to and 10 inches below the top of the concrete slab at ℄ Girders

Fabricate diaphragms and floor beams to fit girders in place prior to placing concrete slab.

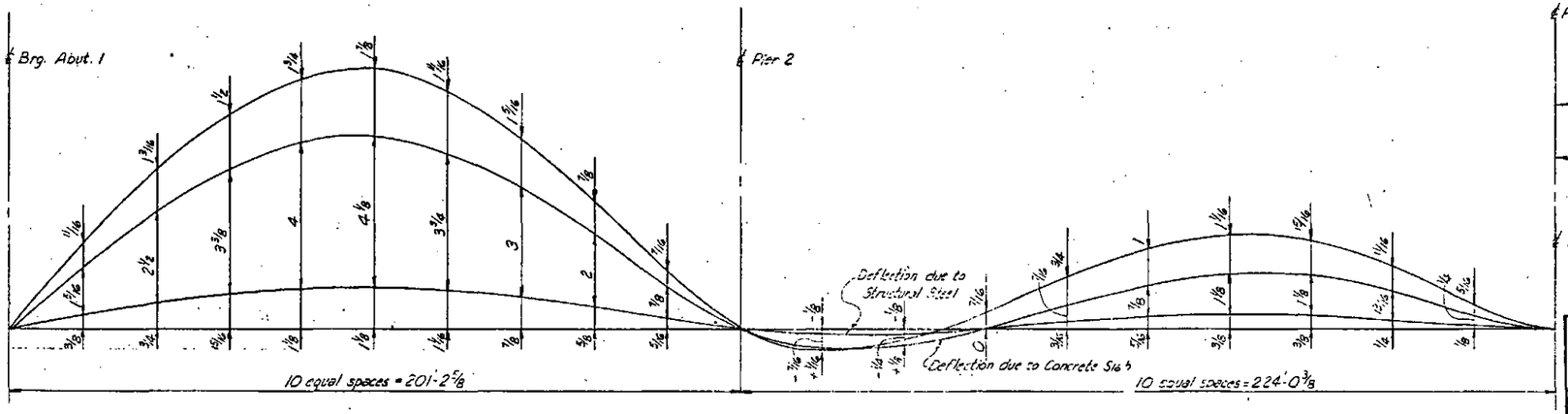
Note: Camber shown is for the slab placing sequence shown on Dwg. No. 3372. If longitudinal deck joints are used, adjustments in camber shall be made.

Cambers shown are in inches.

DEFLECTIONS DUE TO CONCRETE WERE INCREASED 4 3/8 DUE TO STEEL FORMS.



GIRDER (13) SPAN 3



GIRDER (15)

AS BUILT PLANS

R. Platzke Date 4-28-78
Project Engineer

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 8-1-79

Checked [illegible] Date 8-2-79

Not to Scale

CHENA RIVER BRIDGE

ROUTE NO. F-62

GIRDER CAMBER & DEAD LOAD DEFLECTION

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

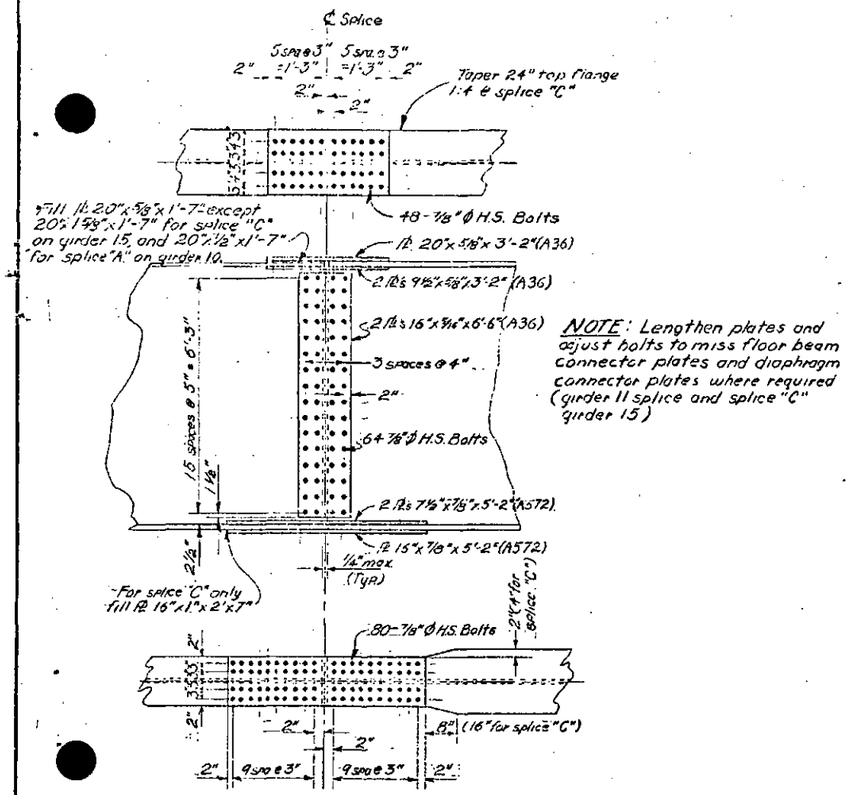
Date [illegible]

Approved [illegible]

BRIDGE NO. 231

DWNG. NO. 3382

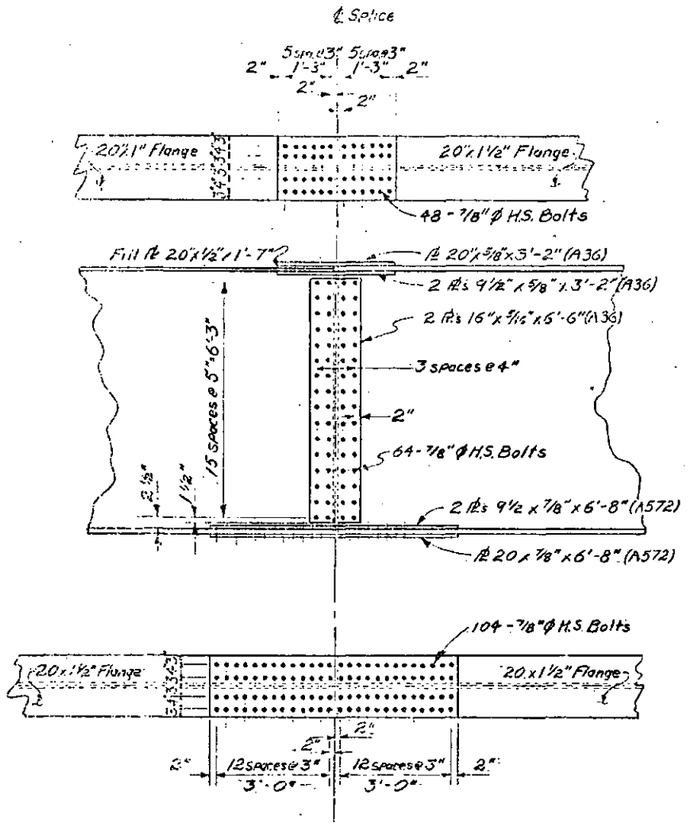
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AF-ALF-062-4(25)	1975	118	120



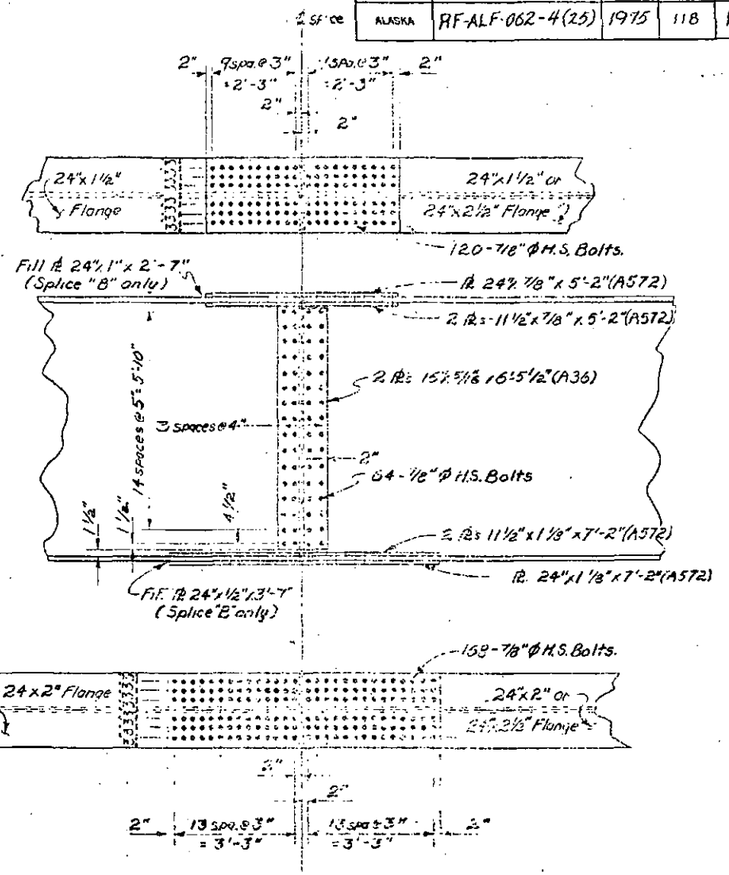
NOTE: Lengthen plates and adjust bolts to miss floor beam connector plates and diaphragm connector plates where required (girder 11 splice and splice "C" girder 15)

STANDARD GIRDER SPLICE

(Typical for all splices on girders 1 thru 9, girder 10 splices and splices "C" and "D" on girder 15.)



SPLICE - GIRDER 11 and SPLICE "E" GIRDER 15



SPLICES "A" and "B" GIRDER 15

— Scale —

0 1 2 3 4 5

AS BUILT PLANS

R. Platzke Project Engineer Date 4-23-78

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 8- -79

Checked [illegible] Date 8-[illegible]-79

CHENA RIVER BRIDGE

ROUTE NO. F-62

SPLICES

State of Alaska

DEPARTMENT OF HIGHWAYS

Juneau, Alaska

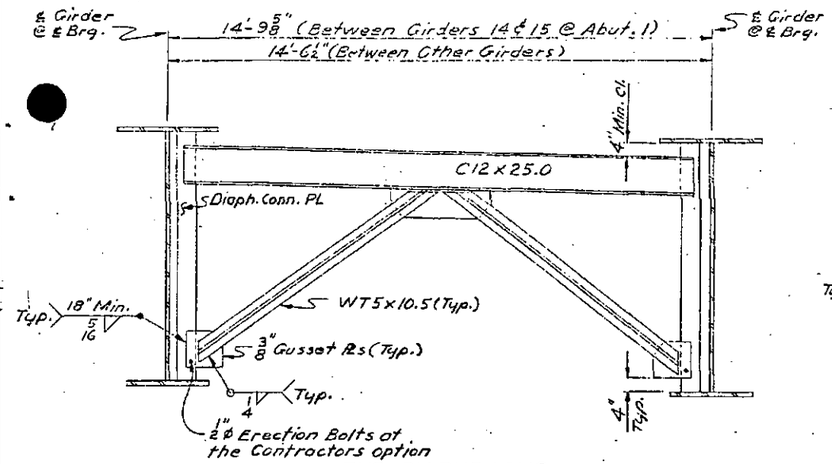
Date [illegible]

Approved [illegible]

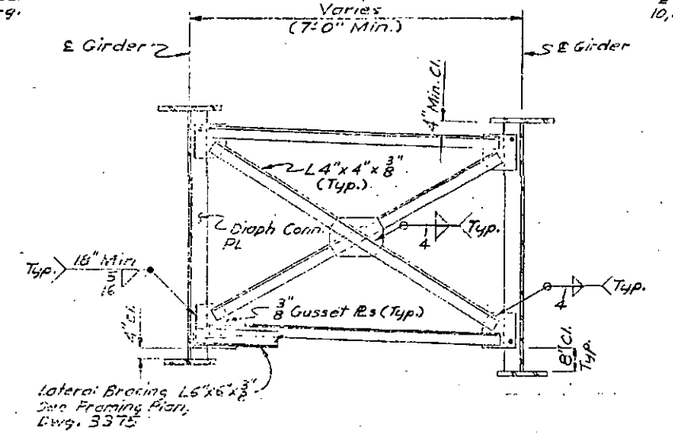
BRIDGE NO. 231

DWNG. NO. 3383

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	119	126

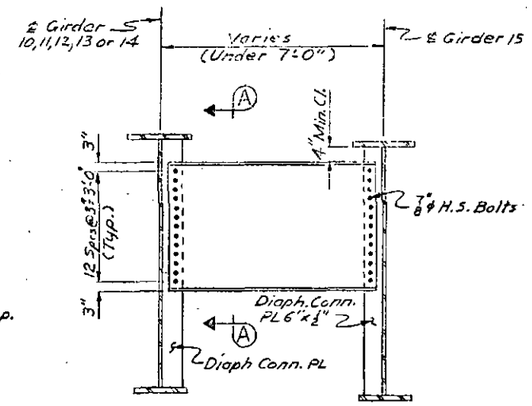


END DIAPHRAGMS AT ABUTS.
(No Scale)

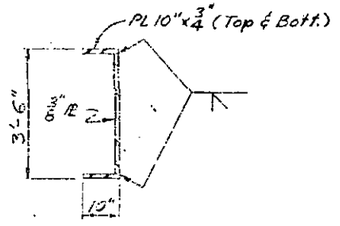


STD. DIAPHRAGMS
(No Scale)

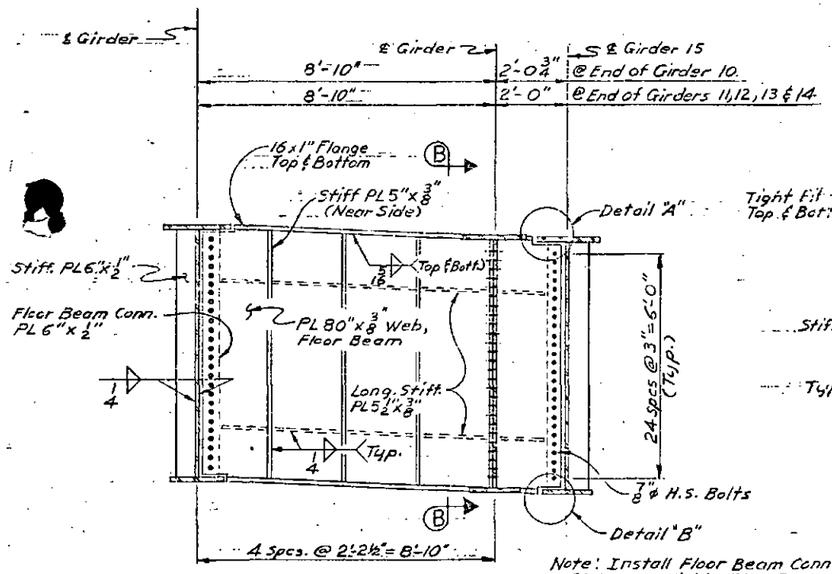
Note: Use standard diaphragms where girder spacing is 7'-0" or greater, use short diaphragms where girder spacing is less than 7'-0".



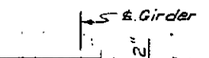
SHORT DIAPHRAGMS
(No Scale)

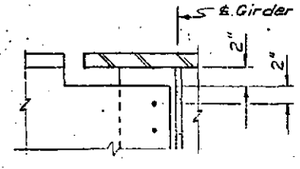


SECTION A-A
(No Scale)

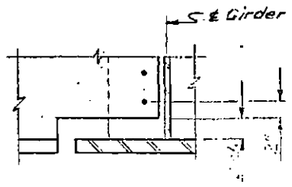


FLOOR BEAM

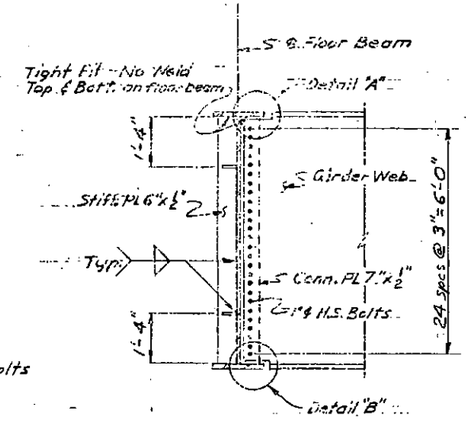




DETAIL "A"
(No Scale)

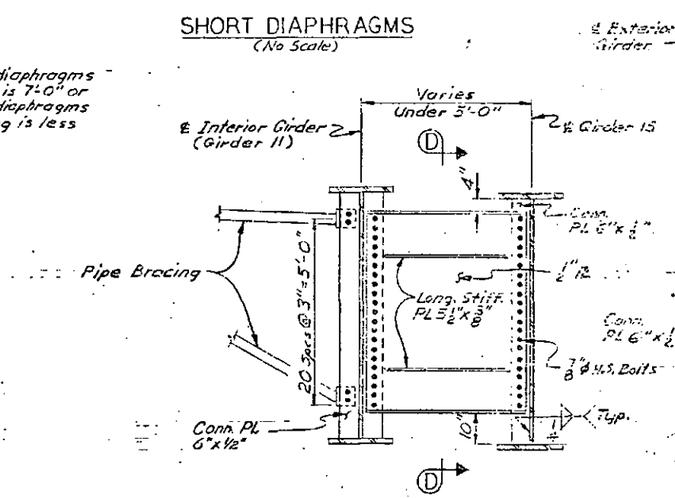


DETAIL "B"
(No Scale)



Note: Install Floor Beam Connector Plates parallel to Floor Beams. Fabricate connections to fit girders in place prior to placing slab.

SECTION B-B
(No Scale)

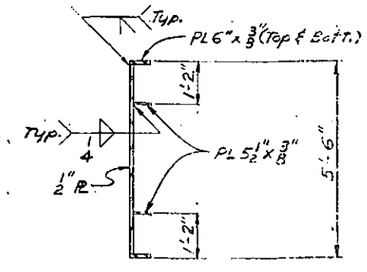


SOLID BRACING

PIPE BRACING
(LEFT SIDE SHOWN)

BRACING AT LUMINAIRE SUPPORT
(No Scale)

Note: Use Pipe Bracing where girder spacing is 5'-0" or greater, use Solid Bracing where girder spacing is less than 5'-0".



SECTION D-D
(No Scale)

AS BUILT PLANS
R. Blakie Project Engineer Date 4-28-78
CORRECTIONS TRANSFERED
Tracings H. Leslie Date 8-1-79
Checked [illegible] Date 9-2-79

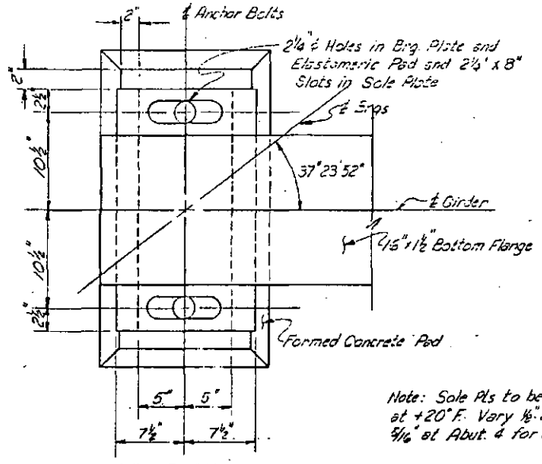
CHENA RIVER BRIDGE
ROUTE NO. F-62
FLOOR BEAMS & DIAPHRAGMS

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

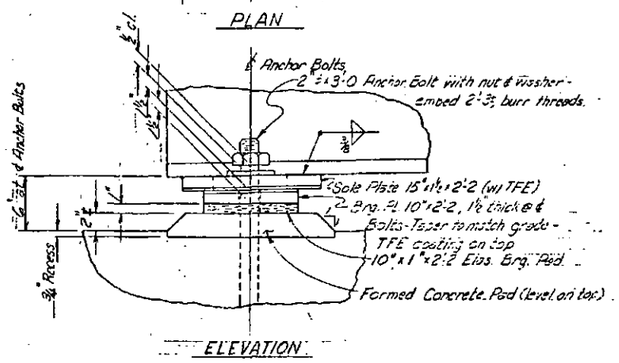
Date 6 Sept 1977
Approved [illegible]

BRIDGE NO. 231
DWNG. NO. 3384

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	120	126

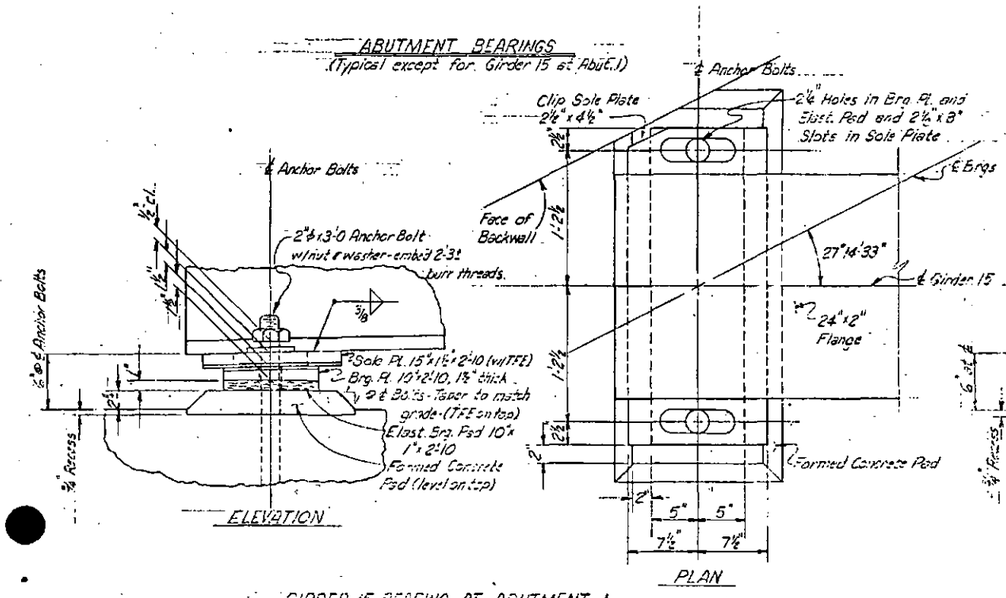


PLAN



ELEVATION

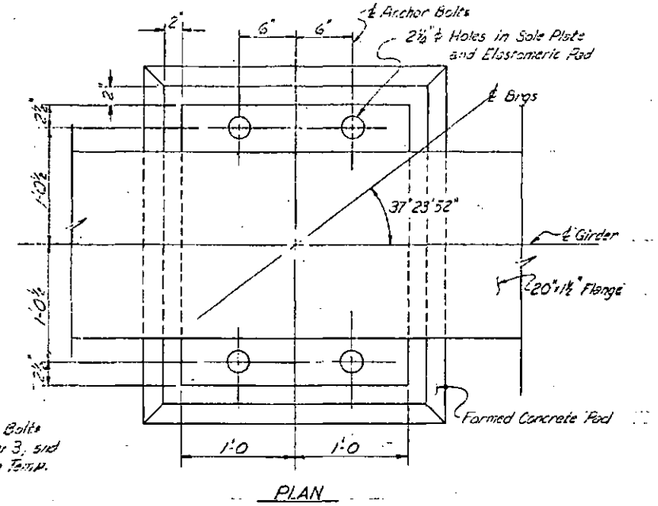
ABUTMENT BEARINGS
(Typical except for Girder 15 at Abut. 1)



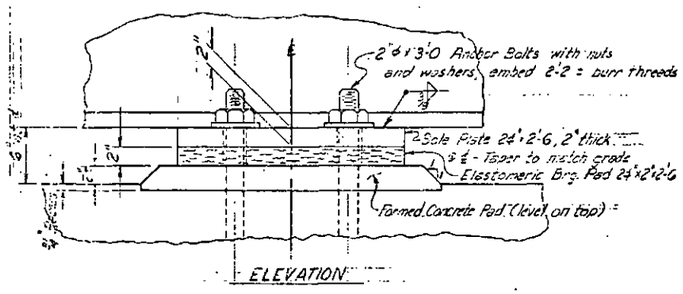
ELEVATION

PLAN

GIRDER 15 BEARING AT ABUTMENT 1

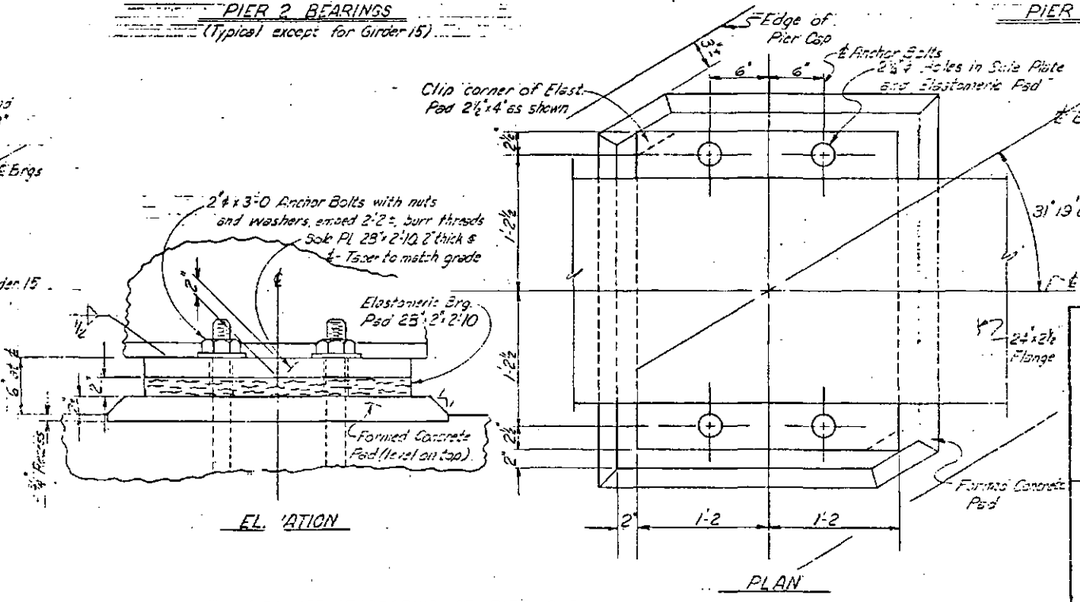


PLAN



ELEVATION

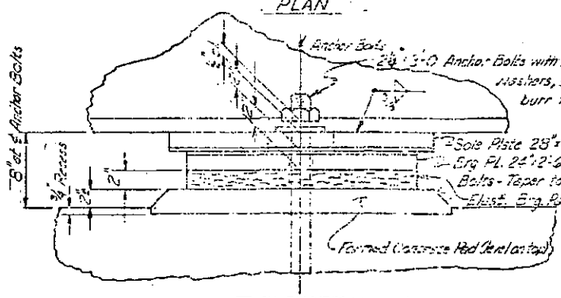
PIER 2 BEARINGS
(Typical except for Girder 15)



PLAN

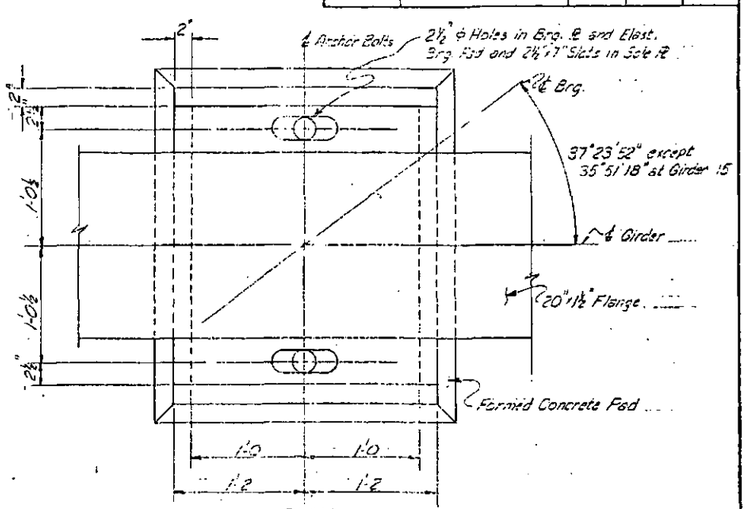
EL. ATION

GIRDER 15 BEARING AT PIER 2



ELEVATION

PIER 3 BEARINGS



PLAN

Note: All elastomeric pads shall be 50 Durometer.

AS BUILT PLANS

R. Platzke — Project Engineer — Date 4-28-78

CORRECTIONS TRANSFERED

Tracings H. Leslie — Date 8-1-79

Checked — Date

CHENA RIVER BRIDGE

ROUTE NO. F-62

BEARINGS

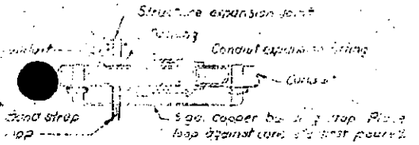
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

BRIDGE NO. 231

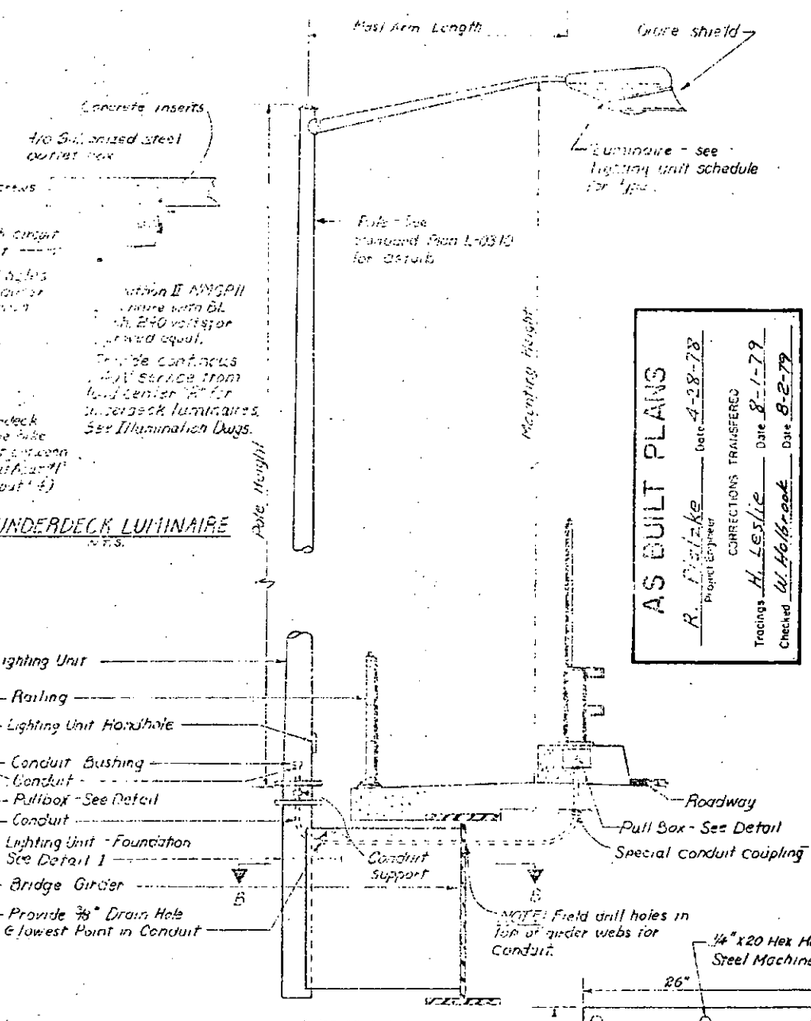
DWNG. NO. 3385

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	121	17 C



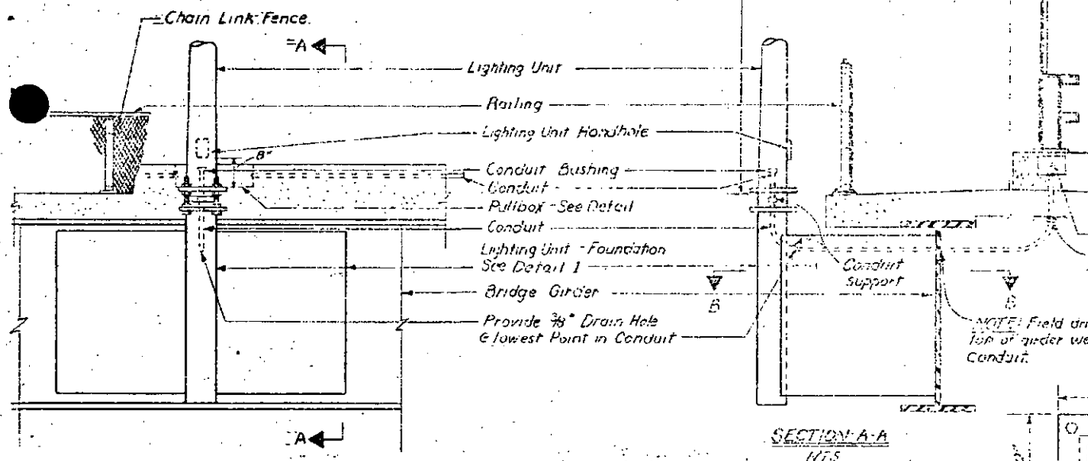
NOTES:
1. Provide fitting for 5 inch movement at each abutment.
2. Expansion fitting shall be installed parallel to superstructure girders

CONDUIT EXPANSION FITTING
(Crouse-Hinds No. AJ581 or approved equal)
N.T.S.



NOTE: Position underdeck luminaires above pole path at midpoint between girders. (13 regd at About 4' and 9 regd at About 4')

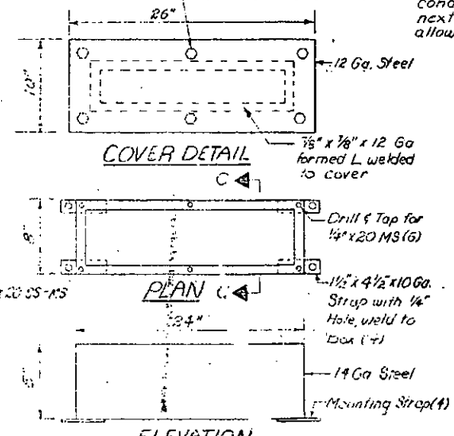
UNDERDECK LUMINAIRE
N.T.S.



ELEVATION

SECTION A-A
N.T.S.

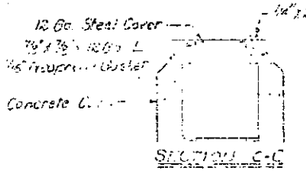
NOTE: Cover for lighting pullbox shall be provided with embossed message "STREET LIGHTING - 480 Volts" Letters shall be 1" high. Pullbox and cover shall be hot dipped galvanized after fabrication. Provide knockouts for conduits as required.



COVER DETAIL

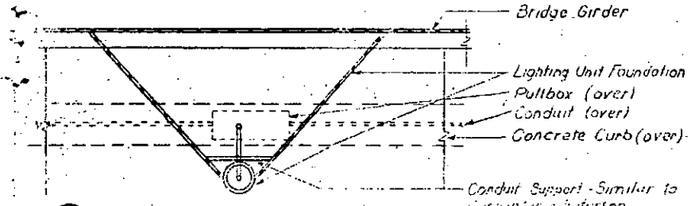
PLAN

ELEVATION



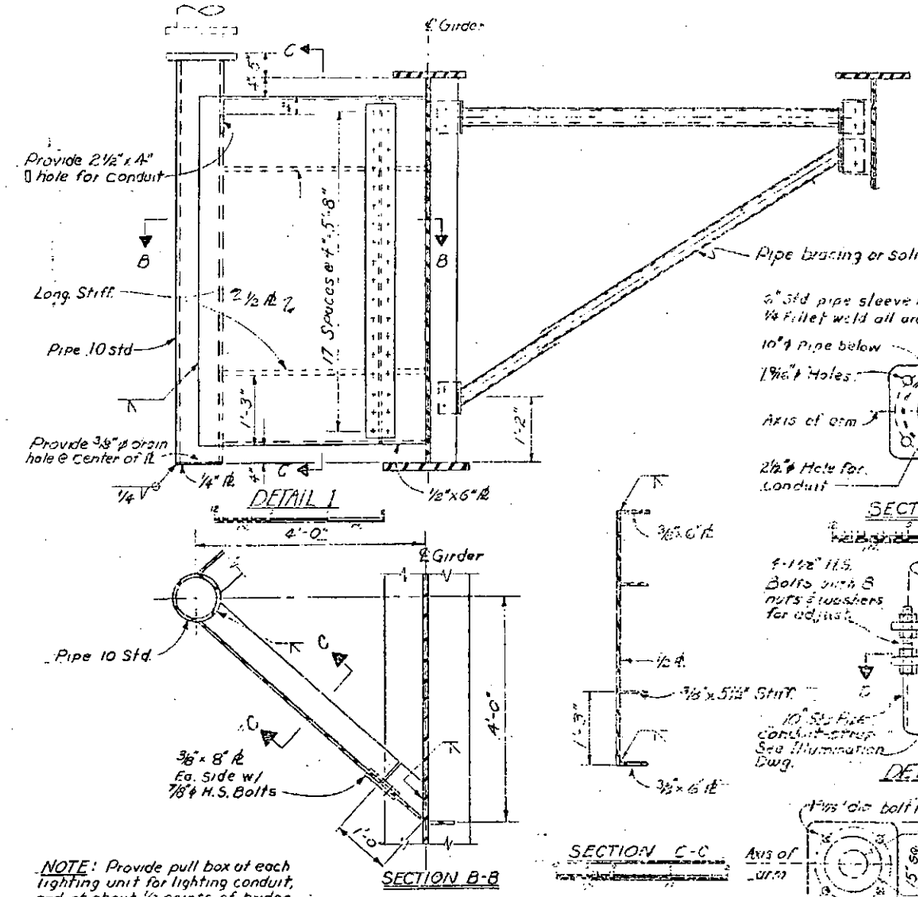
SECTION C-C

BRIDGE JUNCTION BOX DETAIL



SECTION B-B

BRIDGE LIGHTING UNIT WIRING DETAIL



CHENA RIVER BRIDGE
ROUTE NO. F-62

ILLUMINATION DETAILS ON BRIDGE STRUCTURE

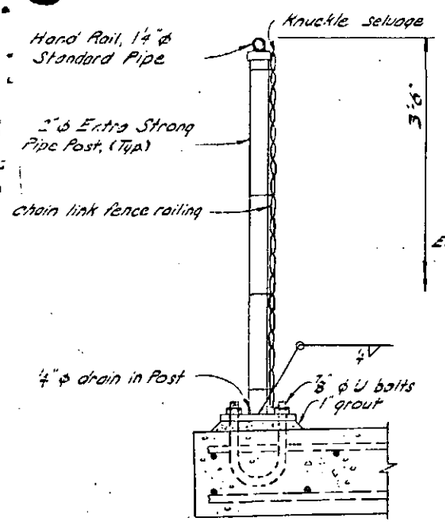
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved

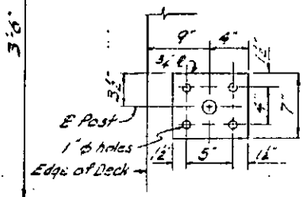
BRIDGE NO. 231
DWNG. NO. 3386

AS BUILT PLANS
R. Dietzke — Project Engineer — Date 4-28-78
CORRECTIONS TRANSFERED
Tracings H. Leslie — Date 8-1-79
Checked W. Holbrook — Date 8-2-79

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	122	126

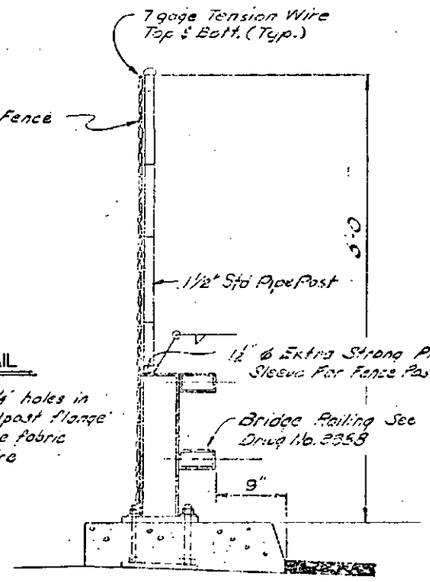


PEDESTRIAN RAILING *



PEDESTRIAN POST PLATE DETAIL

Note: Drill ¼" holes in edge of railpost flange & fasten fence fabric w/12 ga. wire



COMBINATION RAILING

*Note: Chain-Link Pedestrain Railing shall be extended to meet Pipe Railing at top of stairs at each end of bridge as directed by the Engineer. Tension in Chain-Link Fencing over expansion joints shall be adjusted to compensate for temperature movement.

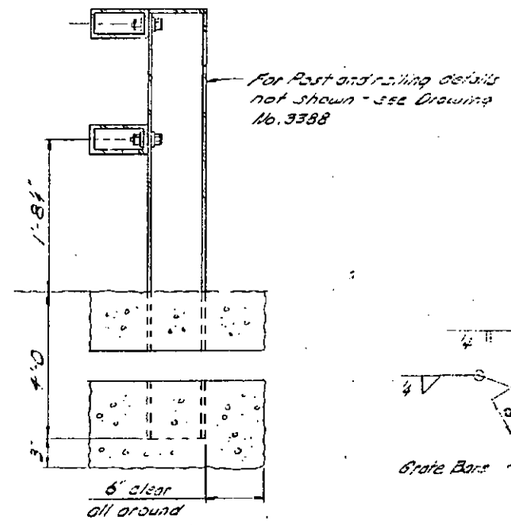
AS BUILT PLANS

R. Platzke — Date 4-28-78
Project Engineer

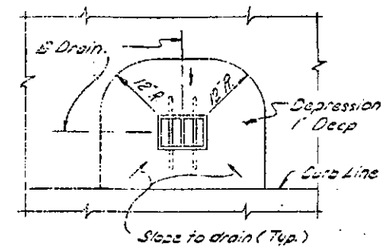
CORRECTIONS TRANSFERED

Tracings H. Leslie — Date 8-1-79

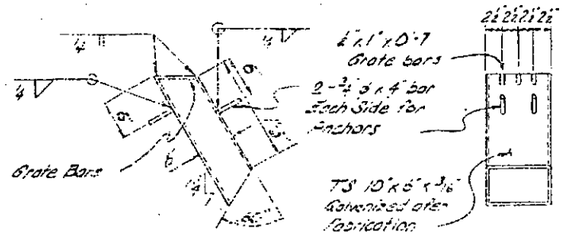
Checked W. Holbrook — Date 8-2-79



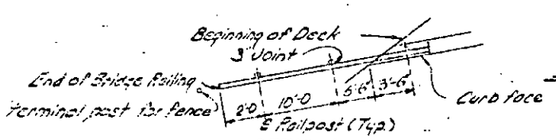
BRIDGE RAILING ON APPROACH FILL



DRAIN LOCATION DETAIL

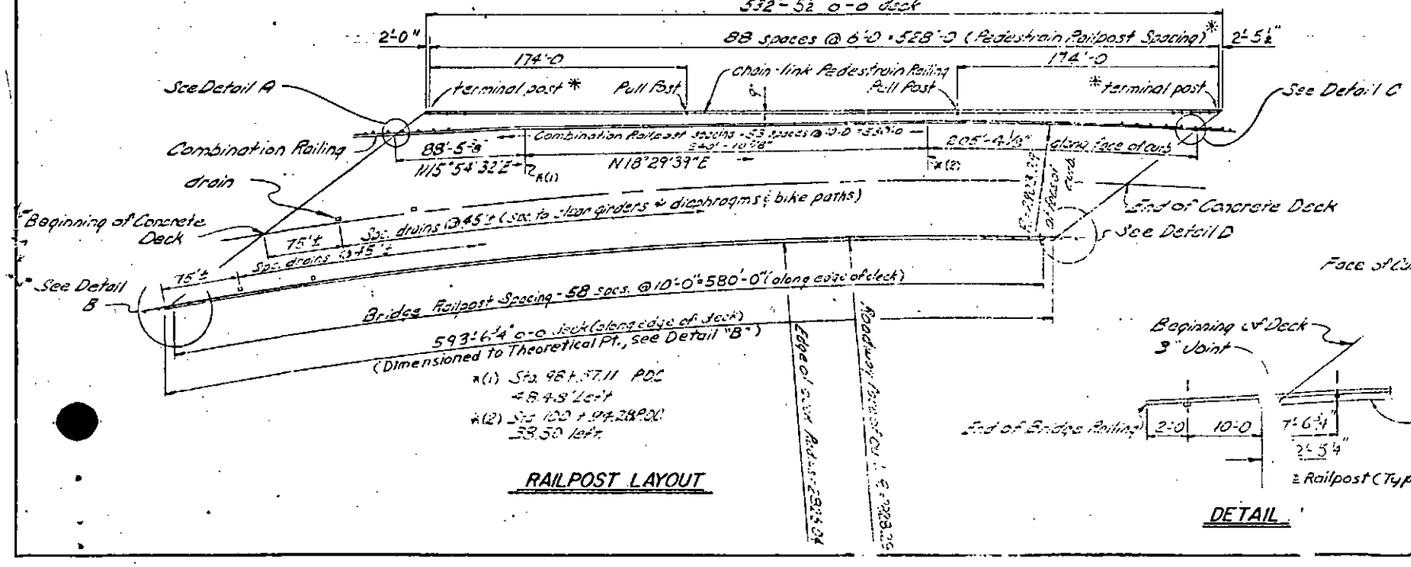


DRAIN DETAILS

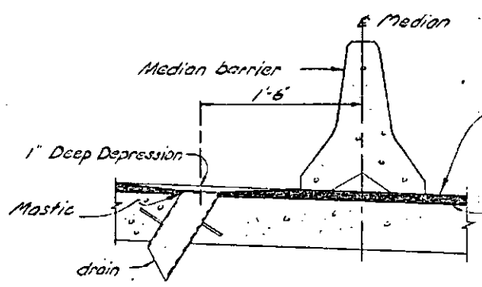


DETAIL A

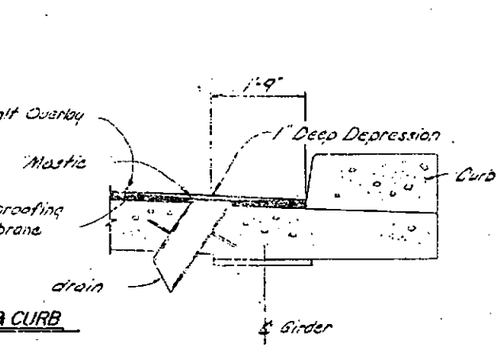
Note: For Railing Details not shown and for railing notes, See Dwg. No. 3388 and Std. Dwg. No. F-01.00. Dimensions Shown are @ +20°F

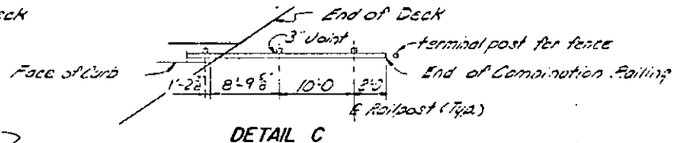


RAILPOST LAYOUT



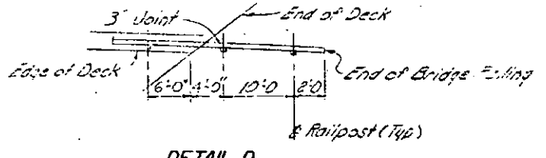
DRAIN DETAILS AT MEDIAN & CURB





DETAIL C

DETAIL B



DETAIL D

CHENA RIVER BRIDGE
ROUTE NO. F-62

RAILING & DRAIN DETAILS

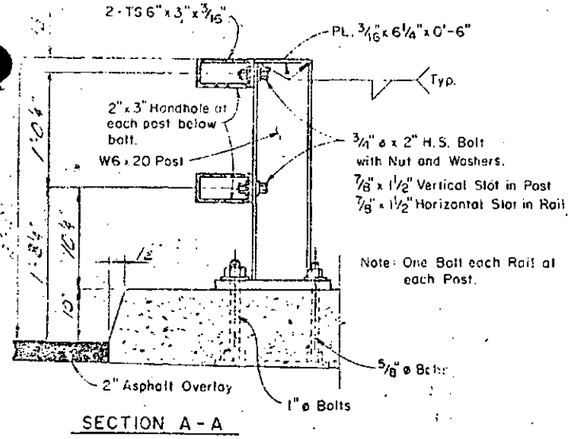
NO SCALE

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

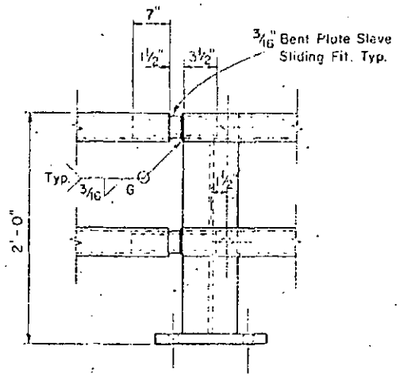
Date 6-31-79
Approved

BRIDGE NO. 231
DWNG. NO. 3387

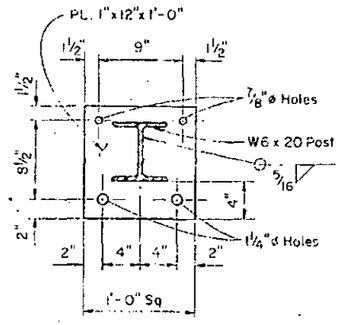
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	123	136



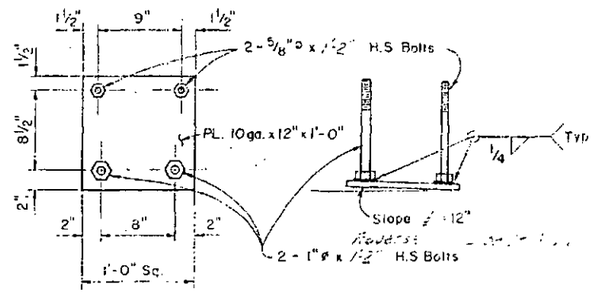
SECTION A - A



EXPANSION JOIN

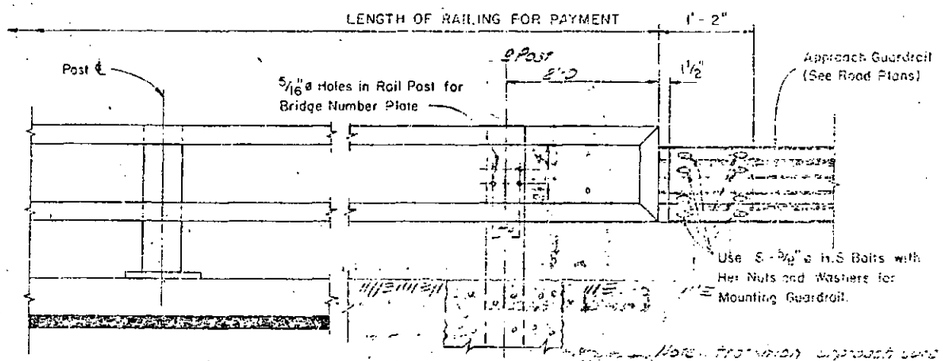


SECTION B - B

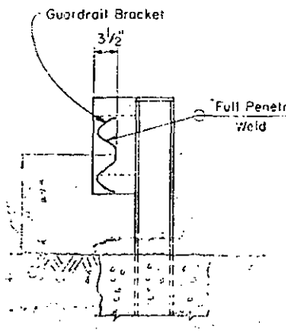


PLAN ELEVATION

RAILPOST BRACKET

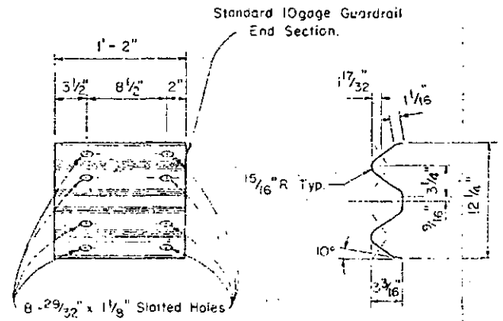


ELEVATION



END VIEW

STEEL RAILING AND POST



END POST APPROACH GUARDRAIL BRACKET

NOTES

1. All railing, posts, anchor assemblies and other steel components shall be galvanized after fabrication. Galvanized steel shims shall be furnished by the contractor as required.
2. Locate bridge number plate on right side of roadway at each end of bridge as shown.
3. Bridge number plate to be furnished by the state.
4. Increase gap in railing expansion joint to match deck joint opening. Increase sleeve length same amount.
5. All machine bolts and cap screws shall have locking nuts or lock washers.
6. Railing Expansion Joints must be provided in panels over the Deck Expansion Joints and at 30'-0" maximum intervals throughout the Railing.
7. Railing Expansion Joints shall be located immediately adjacent to a Rail Post.
8. Post shall be shimmed to plumb position.

Note: For Railing Layout See Drawing No. 3387

AS BUILT PLANS
R. Pietuke Project Engineer Date 4-28-78
CORRECTIONS TRANSFERED
Tracings H. Leslie Date 8-1-79
Checked W. McBreak Date 8-2-79

CHENA RIVER BRIDGE
ROUTE NO. F-62
BRIDGE RAILING
NO SCALE

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska
Date 7-15-75
Approved
BRIDGE NO. 231
DWNR. NO. 3388

"A" NOTES

Minimum shell thickness shall be $\frac{3}{16}$ inch; however, the contractor shall provide a shell of sufficient thickness to withstand the method of installation he proposes to use on this project.

"B" NOTES

Reinforcing cage shall extend at least 12 ft. below the lowest of the following:

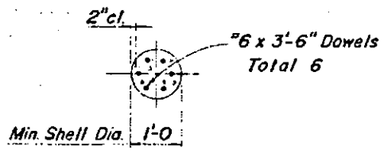
1. Bottom of footing
2. Top of final ground surface
3. Top of original ground surface, when piles are driven through fills or in holes bored through fills.

Shells shall be of sufficient thickness to be driven without injury with the aid of a mandrel inserted in the shell.

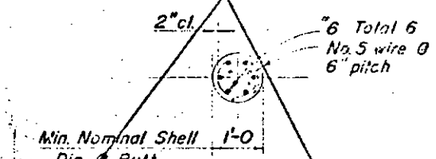
"C" NOTES

Minimum shell thickness shall be 7 gage.

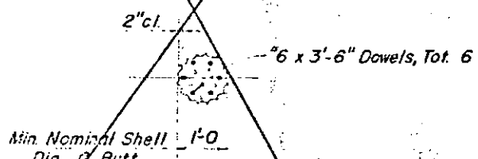
Contractor shall be responsible for furnishing shells of sufficient thickness to drive without distortion.



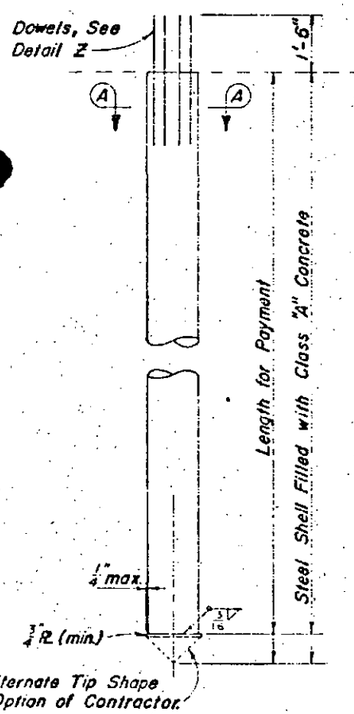
SECTION A-A



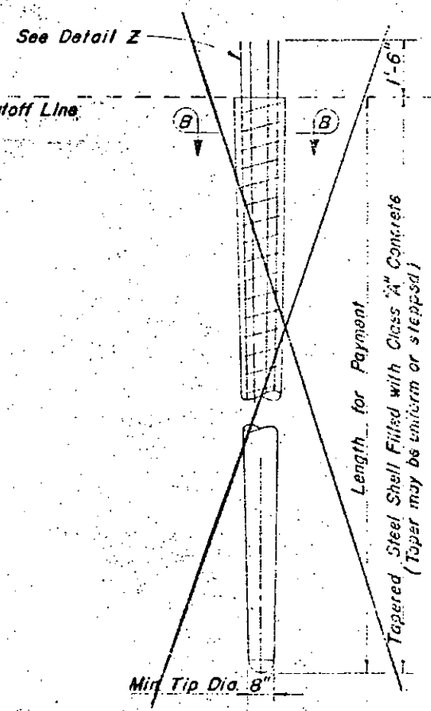
SECTION B-B



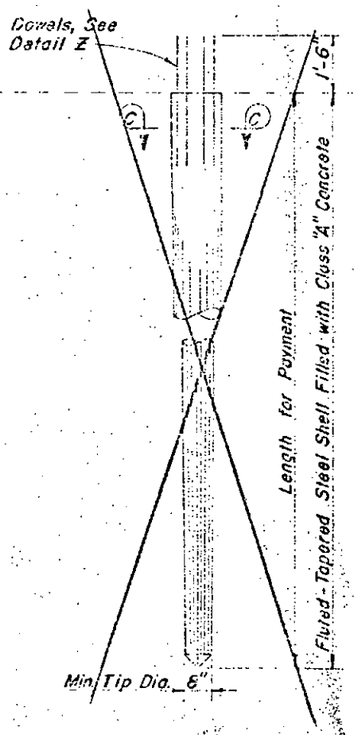
SECTION C-C



ALTERNATIVE "A"*



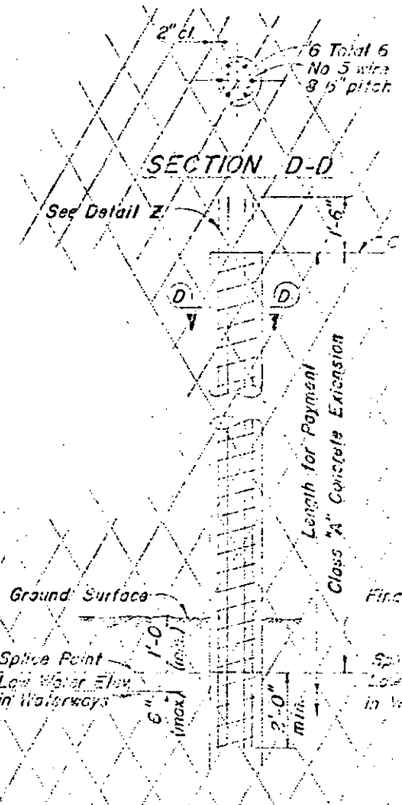
ALTERNATIVE "B"



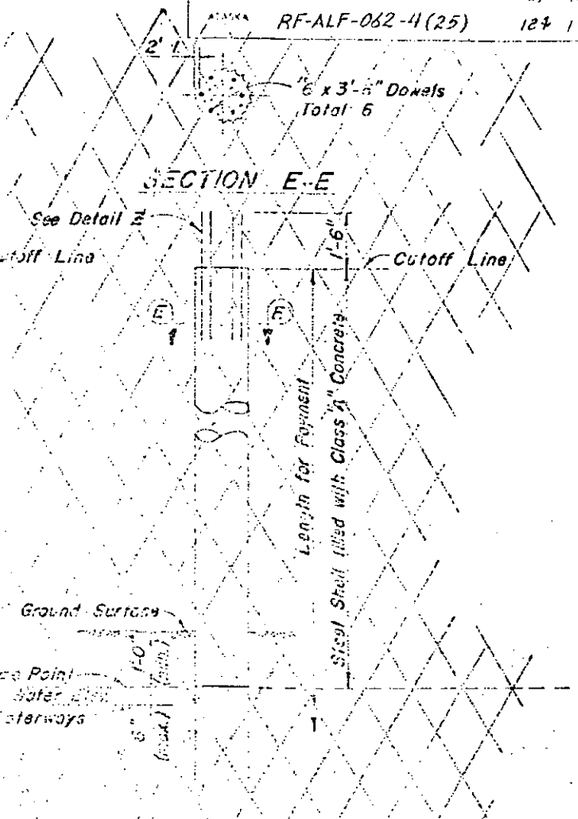
ALTERNATIVE "C"

* ALTERNATIVE "A" USED FOR ALL PILES

CAST IN PLACE PILES



SECTION D-D



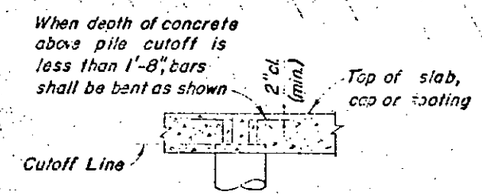
SECTION E-E

FORMED PILE EXTENSION

Note: Formed Pile Extensions shall be used with Alternative "A" & "C" when web walls are used and shall always be used with Alternative "B" Piles. Formed Pile Extensions may be used with Alternative "A" or "C" piles when web walls are not used.

SHELL PILE EXTENSION

Shell pile extensions shall be cast in a steel shell of uniform cross section equal to the section of the pile at the butt. They may be used on Alternative "A" or "C" piles when web walls are not used.



DETAIL Z

AS BUILT PLANS

R. Platzke Date 4-28-78

CORRECTIONS TRANSFERED

Tracings H. Leslie Date 8-1-79

Checked W. Holbrook Date 8-2-79

REVISIONS

No. Date Description

CHENA RIVER BRIDGE

ROUTE NO. F-62

CONCRETE PILES

BRIDGE NO. 231

State of Alaska

DEPARTMENT OF HIGHWAYS

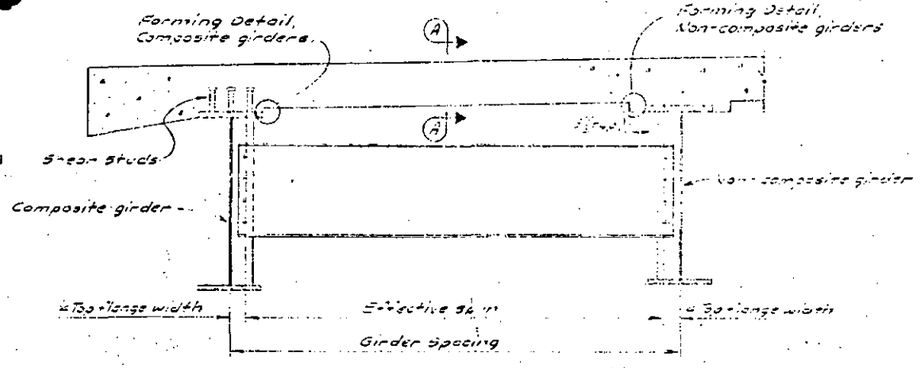
Juneau, Alaska

Date

Approved

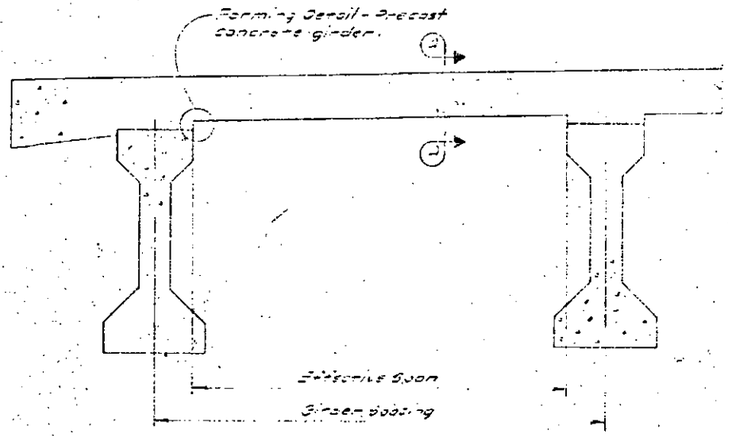
DWG. NO. 3389

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RF-ALF-062-4(25)	1975	125	126



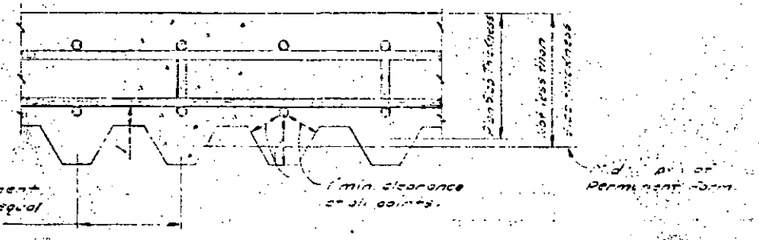
STEEL GIRDER FORMING

Note: See Bridge Plans for specific dimensions and details not shown.



CONCRETE GIRDER FORMING

Note: The reinforcing steel spacing and configuration shown on the Bridge plans shall be maintained.



SECTION A-A

PERMANENT FORM CRITERIA			
EFFECTIVE SPAN	MAX. SLAB THICKNESS	S MIN. (IN³/FT)	I MIN. (IN⁴/FT)
4'-6"	7"	.154	.127
4'-9"	7"	.172	.149
5'-0"	7"	.191	.174
5'-3"	7"	.211	.202
5'-6"	7"	.231	.232
5'-9"	7"	.252	.265
6'-0"	7 5/8"	.278	.301
6'-3"	7 3/4"	.304	.341
6'-6"	7 3/4"	.329	.383
6'-9"	7 7/8"	.359	.429
7'-0"	7 7/8"	.390	.478
7'-3"	7 7/8"	.422	.532
7'-6"	7 7/8"	.452	.588
7'-9"	7 7/8"	.487	.671
8'-0"	7 7/8"	.519	.752
8'-3"	7 7/8"	.553	.862
8'-6"	8"	.598	.971
8'-9"	8"	.634	1.090
9'-0"	8 3/8"	.677	1.220
9'-3"	8 3/4"	.722	1.362
9'-6"	8 3/4"	.761	1.515

GENERAL NOTES

Design span for forms shall be not less than the effective span.

Design Stresses: Table based on a max. allow. working stress of 29,000 psi
Max. allow. working stress = 0.725 min. yield strength but not greater than 29,000 psi.

Design Load: Wet concrete (150 pcf)
+10 psf for reinforcing steel and form
+ 30 psf construction load
Min. Dead Load for deflection = 120 psf

Deflection: Max. allow. Dead Load Deflection = 1/180 or 1/2" whichever is less.

Materials: All Permanent Form material shall conform to the requirements of ASTM A446 (Grades 1 through E), coated in accordance with the requirements of ASTM A525, Class G165. Form supports shall be 12 ga. min.

Physical properties of Permanent Forms shall be calculated in accordance with AISI specification "Design of Cold Formed Steel Structural Members," latest edition.

Welding of Permanent Forms material or attachment hardware to flanges subjected to tensile stresses or to flanges of ASTM A514 or A537 steel will not be permitted.

Shop plans for Permanent Forms shall be submitted to the Engineer for approval in accordance with Section 105-1.02 of the specifications, and shall indicate the grade of steel, the physical and section properties of the forms, and the tensile stress zones of steel girder flanges.

All Permanent Forms shall be securely attached to the girders, and shall be relatively leak-proof.

Welding and welds shall be in accordance with AWS D2.0 for fillet welds, except that 5" fillet welds will be permitted.

Any damaged galvanization form surfaces which will be permanently exposed shall be required in accordance with Section 105-3.03 of the specifications.

Any increase in concrete quantity necessitated as a result of utilizing Permanent Forms shall be provided at no cost to the State.

Transverse construction joints shall be located at the bottom of a flute and the [illegible] holes shall be drilled at 12" max. spacing along the line of the joint.

Chloride salt admixtures shall not be used in concrete placed on Permanent Forms.

AS BUILT PLANS
R. Platzke Date 4-[illegible]-78
Project Engineer
CORRECTIONS TRANSFERRED
Tracings H. Leslie Date 8-[illegible]-79
Checked W. Holbrook Date 5-2-79

CHENA RIVER BRIDGE
ROUTE NO. F-62
PERMANENT FORMS FOR BRIDGES

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date
Approved
BRIDGE NO. 231
DWNG. NO. 3390