Drawer 29

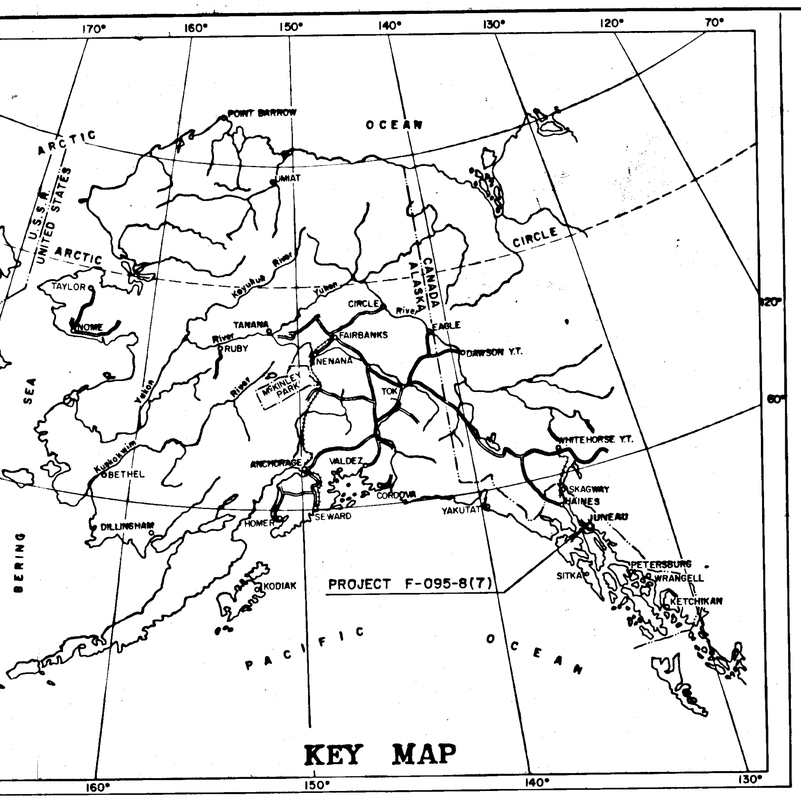
STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	1	28

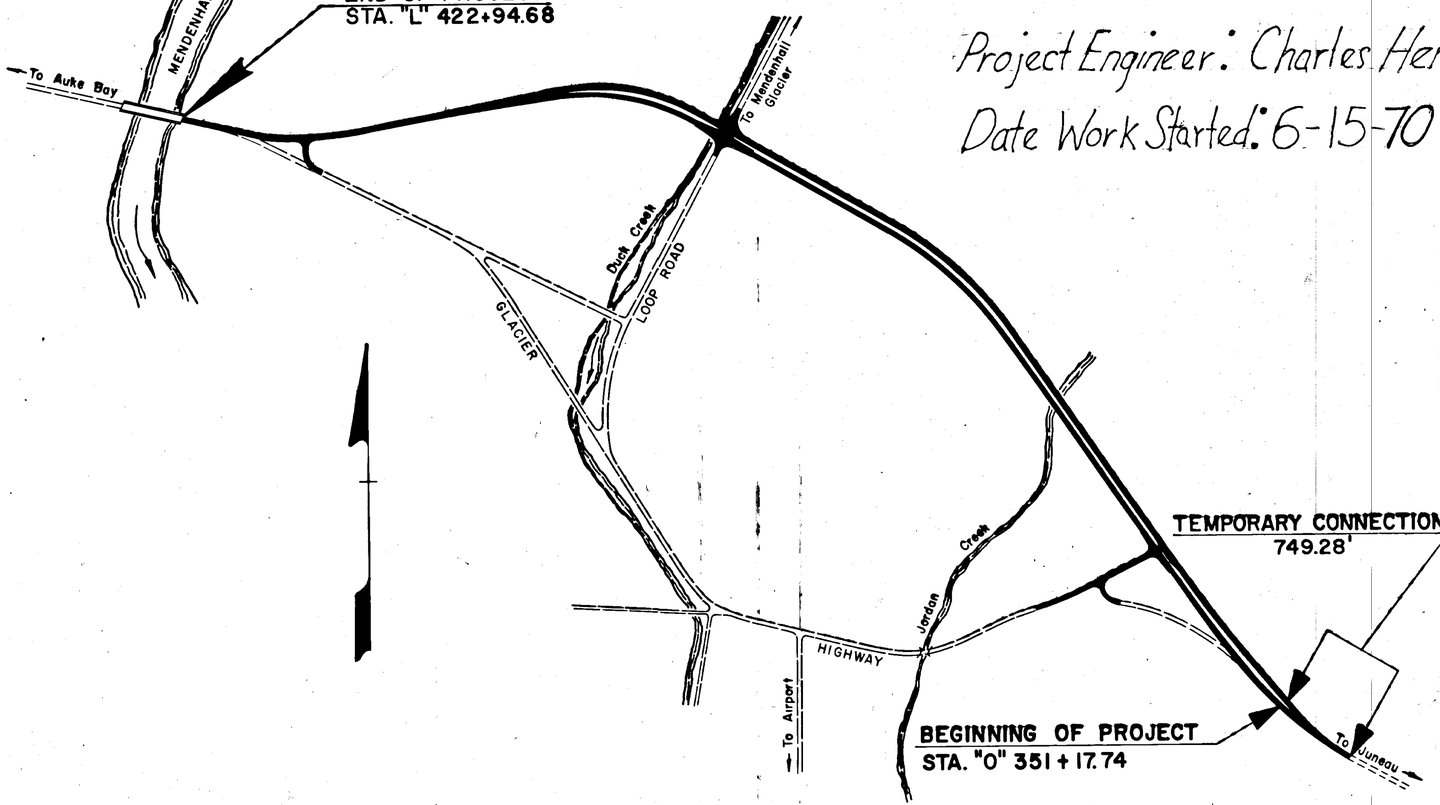
STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

F-095 - 8 (7)
GLACIER HIGHWAY
7.1 TO 8.3 MILES
GRADING, DRAINAGE & PAVEMENT

"AS BUILT PLANS"





Contractor: Green Construction Co.

Project Engineer: Charles Henry

Date Work Started: 6-15-70 Completed: July 23-1971

INDEX OF SHEETS

The following Standard Drawings apply to this project:

A-1, D-1a, D-1b, D-2, D-6, M-1, M-2, R-1, R-4, R-6, T-1, T-2, T-4, T-6, T-7, T-9, T-15, T-16 (Shts. 1 & 2), T-17, T-18, T-19, T-20, T-31, T-52.

DESIGN	DESIGNATION
ADT (1970)	= 4120
ADT (1990)	= 14420
DHV (12%)	= 1730
D	= 45-55
T	= 5 %
V	= 60-70 MPH

Checked by Bill Morris
7/31/72

PROJECT SUMMARY

WIDTH of SUBGRADE	=	44'-110'
WIDTH of PAVEMENT	=	24'-48'
LENGTH of GRADING	=	7,906.03' = 1.497 Mi.
LENGTH of PAVING	=	7,906.03' = 1.497 Mi.
LENGTH of PROJECT	=	7,156.75' = 1.355 Mi.
TEMPORARY CONNECTION	=	749.28' = 0.142 Mi.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

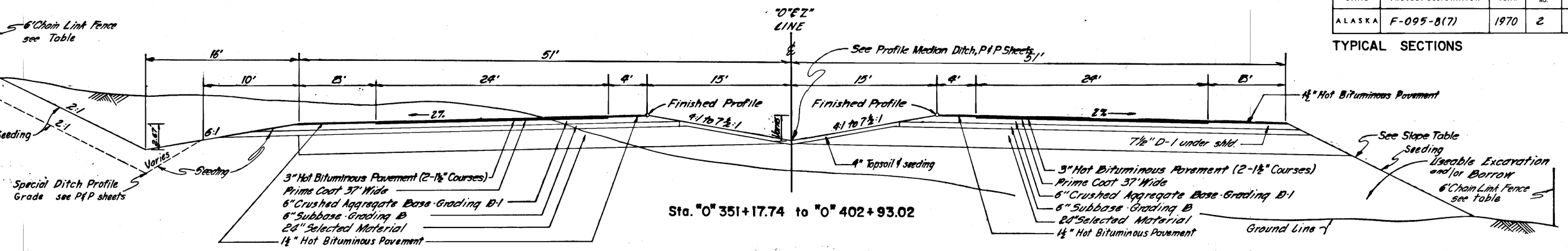
APPROVED:

Warren E. Wild P.E. DATE 3/9/70
SOUTHEASTERN DISTRICT ENGINEER

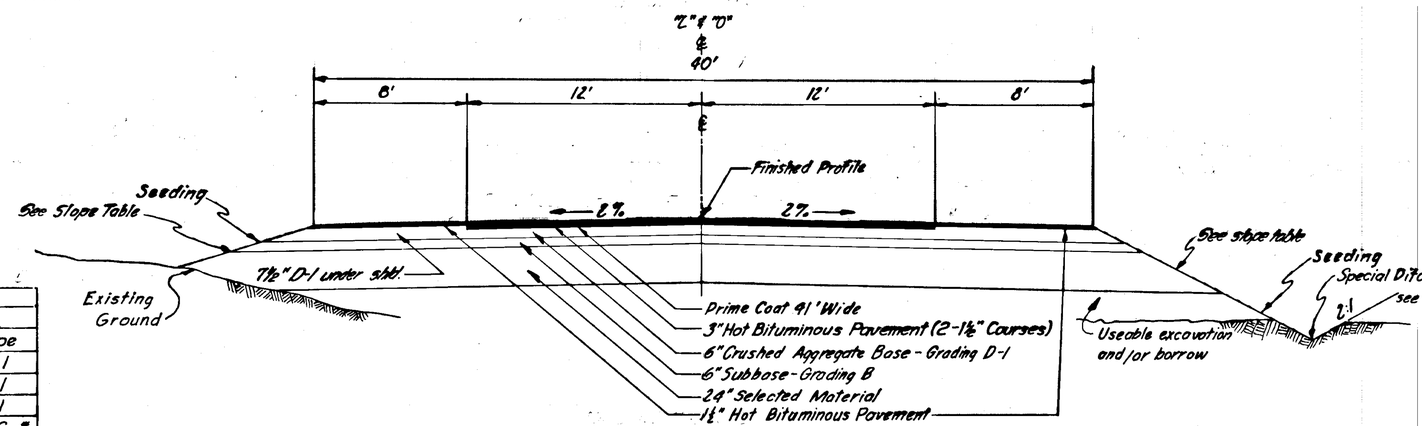
P.H. Landsdale DATE 3/13/70
COMMISSIONER OF HIGHWAYS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	2	28

TYPICAL SECTIONS

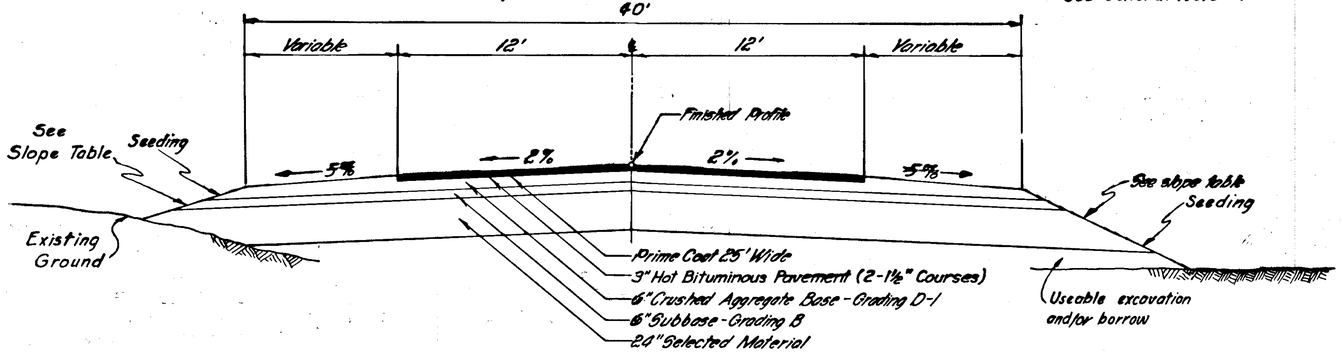


Sta. "0" 351+17.74 to "0" 402+93.02



Sta. "L" 408+91.03 to "L" 422+94.68 *

* See General Note #7



* See General Note #7

Approach Roads*

"B" Line — see sheet # 13 & 16

"C" Line — see sheet # 13

"D" Line — see sheet # 11 & 16

TABLE OF FILL SLOPES

Left			Right		
Sta	to Sta	Slope	Sta	to Sta	Slope
344+00	353+10	4:1	344+00	348+00	4:1
353+60	353+68	3:1	349+00	356+00	3:1
354+06	359+22	S.D.C.*	356+49	368+00	4:1
359+98	367+00	3:1	368+50	371+70	S.D.C.*
367+29	371+70	4:1	371+90	390+00	4:1
371+90	384+00	S.D.C.*	391+00	392+32	6:1
384+63	385+00	4:1	392+47	394+11	4:1
386+00	392+32	S.D.C.*	394+20	394+50	3:1
392+47	393+27	3:1	394+61	396+00	6:1
393+27	394+11	4:1	396+50	398+00	4:1
394+20	394+50	3:1	398+50	404+00	3:1
394+61	404+00	S.D.C.*	405+00	414+36	4:1
405+00	413+00	4:1	414+54	415+19	3:1
414+00	420+00	3:1	415+34	415+50	4:1
420+50	422+95	2:1	416+00	418+50	3:1
			418+91	422+95	2:1
* Special Ditch Controls					
"C" Line					
0+65	4+37	3:1	0+65	4+37	3:1
4+50	8+00	4:1	4+50	8+00	4:1
9+00	9+74	6:1	9+00	9+74	6:1
"D" Line					
8+00	8+81	4:1	8+00	8+93	4:1
8+91	10+00	3:1	9+11	10+00	3:1

GENERAL NOTES

1. Grade and alignment shown on these plans are subject to minor revisions.
2. Culvert lengths and locations are approximate only and subject to minor revisions.
3. Where pipe conduits are to be installed in embankment sections, the excavation shall be made after the embankment has been completed to the top of the conduit. This applies to 18" and 24" conduits.
4. Special welds at Brotherhood Bridge will be paid for under pay item 601(1).
5. Clearing Limits: Fenced section will be cleared 5' beyond fence or to R/W whichever is smaller.
   Unfenced section will be cleared 15' beyond slope limits or to R/W whichever is smaller.
6. Roadway obliteration will not be done until traffic is accommodated on new roadway, or as directed by the Engineer.
7. In areas of construction over existing embankment, excavate to top of selected material grade or as directed by the engineer.

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	3	2

ITEM Nº		UNIT	SHEET NUMBERS								TOTAL
			7	8	9	10	11	12	13		
101(1)	Mobilization	L.S.									All req'd
201(3)	Clearing & grubbing	Acre	4.6	7.2	6.3	5.7	4.0	0.1	1.3		29.2
203(3)	Unclassified excavation	Cu. Yd.	2518	1590	9013	9225	6278	899	2260		31,783
203(5)	Borrow	Ton	57,542	53,211	32,149	30,485	31,788	3198	13,704		222,077
304(1)	Crushed aggregate base, grading D-1	Ton	3448	4673	4351	5232	3108	714	1294		22,820
307(1)	Subbase, grading "B"	Ton	4372	5501	5061	5983	3462	785	1920		27,084
403(1)	Hot bituminous pavement	Ton	1428	1871	1680	2179	1197	270	557		9182
408(2)	MC-30 Liquid asphalt for prime coat	Ton	9.6	13.1	12.0	14.8	8.5	2.0	3.3		63.3
601(1)	Class "A" concrete	L.S.									All req'd
603(26E)	18" Pipe conduit	L.F.		148	210	136					494
603(26G)	24" Pipe conduit	L.F.	286								286
603(26K)	48" Pipe conduit	L.F.				268		100			368
603(31K)	End section for 48" pipe conduit	Ea.				4					4
604(7)	C.M.P. Inlets	Ea.	1	2	3	2					8
606(1)	Beam-type guardrail, Type I post	L.F.	325				137.5	225			687.5
607(3)	Chain link fence	L.F.	1493	2824	3000	1510					8827
610(2)	Structural plate pipe arch, 8'-2" x 5'-9"	L.F.		308							308
614(1)	Survey monuments	Ea.	1	2	2	1	2	1			9
614(2)	Monument cases	Ea.	1	2	2	1	2	1			9
615(1)	Standard Signs	Ea.	9	19	2	24	15	2	2		73
618(1)	Hydro-seeding, class 2	M.S.F.	58.6	110.0	98.6	95.3	73.6	28.9	1.0		466
618(2)	Water for maintenance	M.Gal.	110	203	182	176	136	54	2		863
620(2)	Top soil	M.S.F.	20.6	51.0	39.0	29.6	2.3				142.5
660(1)	Illumination system	L.S.									All req'd

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	4	28

TABLES

SUPERELEVATION TABLE

Station	Lt. Lane	Rt. Lane
"0" 351+17.74	-2%	-2%
"0" 359+10	-2%	↓
"0" 359+50	↓	-2%
"0" 361+60	↓	-4%
"0" 361+80	+4%	↓
"0" 364+20	+4%	↓
"0" 364+40	↓	-4%
"L" 366+50	↓	-2%
"L" 366+90	-2%	↓
"L" 374+20	↓	-2%
"L" 374+60	-2%	↓
"L" 376+70	-6%	↓
"L" 376+90	↓	+6%
"L" 383+70	↓	+6%
"L" 383+90	-6%	↓
"L" 386+00	-2%	↓
"L" 386+40	↓	-2%
"0" 394+30	↓	-2%
"0" 394+70	-2%	↓
"0" 396+80	-6%	↓
"0" 397+00	↓	+6%
"0" 402+90	-6%	+6%
"0" 404+25	-2%	↓
"L" 405+78.38	↓	-2%
"L" 412+60	-2%	↓
"L" 413+95	↓	-2%
"0" 415+30	+6%	-6%
"0" 418+60	+6%	-6%
"L" 419+96.81	↓	-2%
"L" 421+31.81	-2%	-2%

Note: All superelevations about finished profile points (see typical sections). Cross slopes transition lineally between successive stations.

CULVERT SUMMARY

Station	Pipe Conduit	Length	Remarks
"E_3" 345+00	1-24" Dia.	58'	Remove & Disp. Exist.
"E_1" 346+00	1-24" Dia.	76'	
"0" 353+68.00	See Median Summary		
"L" 371+90.00	2-8'-2" x 5'-9" S.P.P.A.	308'	
"0" 394+63.00	2-48" Dia.	268'	W/end sections
"L" 420+27.00	1-48" Dia.	70'	Approach road Rt.
"L" 422+95.00	1-48" Dia.	30'	Outfall
"L" 409+55	1-18" Dia.	52'	APPROACH RT. CO #6
"D" 10+50	1-48" Dia.	66'	APPROACH RT. EWO #8
"M" 491+85	1-24" Dia.	84'	LOOP RD CO #3
"M" 494+25	1-24" Dia.	70'	LOOP RD CO #3

MEDIAN DRAINAGE SUMMARY

Station	Cover of Drop Inlet	Drop Inlet Invert	Culvert Outlet Invert	Culvert Size	Length 72'
"0" 353+68	27.25	23.50	21.5	24"	152'*
"0" 359+19	27.25	25.25	~~23.7~~	18"	72'
"L" 368+50	27.25	25.25	24.26	18"	76'
"L" 375+00	27.68	25.68	~~25.0~~	18"	68'
"L" 384+00	26.86	24.86	24.9	18"	66'
"L" 389+00	~~25.89~~	23.89	23.2	18"	66'
"0" 397+50	27.00	25.00	24.0	18"	66'
"0" 402+50	27.96	25.96	~~24.8~~	18"	70'

*Special Case — drop inlet directly into culvert.

SURVEY MONUMENTS

STATION	LOCATION	POINT	MON. CASES
"0" 351+17.74	℄	B.O.P.	1
"0" 360+89.86	℄	P.C.	1
"0" 365+10.90 = "L" 365+10.90	℄	P.T. B.K. P.O.T. AHD.	1
"L" 375+98.40	℄	P.C.	1
"L" 384+62.84	℄	P.T.	1
"L" 393+81.12 = "M" 492+85.06	℄	P.O.T. P.O.T.	1
"0" 405+18.02 = "L" 405+36.40	℄	S.T. BK. P.O.T. Ahd.	1
"L" 414+38.07 = "0" 414+38.07	℄	P.O.T. BK. P.C. AHD.	1
"0" 419+55.15 = "L" 419+56.96	℄	P.T. BK. P.O.T. AHD.	1

GUARDRAIL SUMMARY

Station	to	Station	Length Lt.	Length Rt.
"GH" 410+66	to	"GH" 413+91		325'
"D" 8+00	to	"D" 9+23	137.5'	
"L" 422+44	to	"L" 422+94	50'	
"L" 422+19	to	"L" 422+94		75'
"As B" 5+98.61	to	"As B" 6+73.61	75'	
"As B" 5+98.61	to	"As B" 6+11.61		25'

Total length = 687.5'

CHAIN LINK FENCE SUMMARY

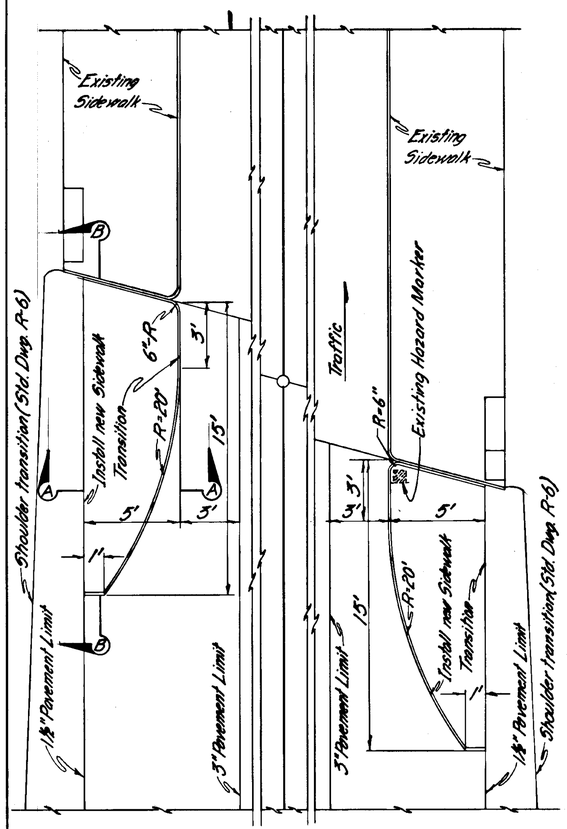
LEFT			RIGHT		
STATION	DIST. FROM ℄	REMARKS	STATION	DIST. FROM ℄	REMARKS
"0" 356+52.74	99'	Begin Fence	"E_2" 396+54.76	99'	Begin Fence
"0" 362+56.00	99'	End Fence	"L" 372+30.00	99'	End Fence
"0" 363+55.50	99'	Begin Fence	"L" 372+65.00	99'	Begin Fence
"L" 371+15.00	99'	End Fence	"L" 381+81.00	99'	
"L" 371+57.00	99'	Begin Fence	"L" 382+31.00	79'	
"L" 380+42.00	99'		"L" 386+63.41	79'	
"L" 380+92.00	79'		"L" 387+13.41	99'	
"L" 387+50.00	79'		"L" 393+19.42	99'	End Fence
"L" 388+00.00	83'		"0" 394+65.00	1' inside R/W	Begin Fence
"L" 390+00.00	83'		"0" 398+00.00	1' inside R/W	End Fence
"L" 390+50.00	89'				
"L" 393+20.20	89'	End Fence			
"0" 394+65.00	1' inside R/W	Begin Fence			
"0" 398+00.00	1' inside R/W	End Fence			

TOTAL LENGTH OF CHAIN LINK FENCE = 8,827 ft.

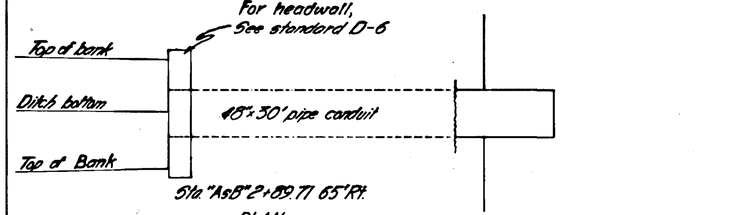
BASIS OF ESTIMATE

ITEM	ESTIMATING FACTOR
203(5)	1.87 Tons per cubic yard
304(1)	1.87 Tons per cubic yard
307(1)	1.87 Tons per cubic yard
403(1)	112 # /sq. yd. in.
408(2)	256 gal. per ton 60°F
408(2)	0.25 gal. per sq. yd.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	5	2

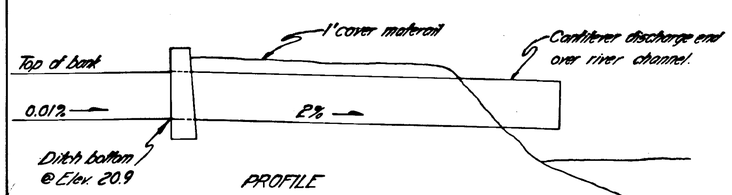


PLAN



PLAN

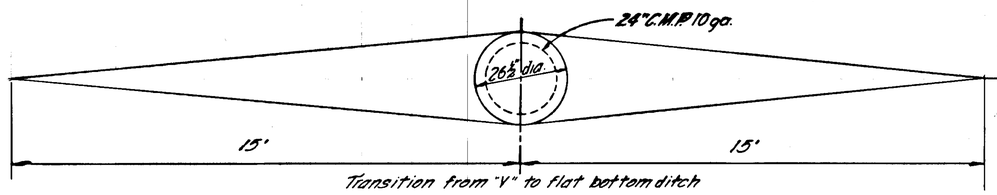
Note: Exception to Standard D-6
Concrete for Headwall shall be Class "A" Concrete



PROFILE

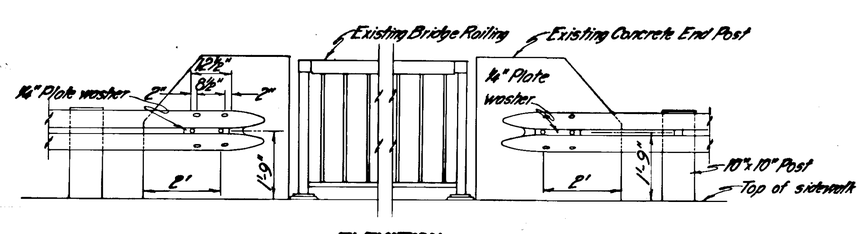
PIPE CONDUIT OUTFALL @ MENDENHALL RIVER

TYPICAL C.M.P. DROP INLET

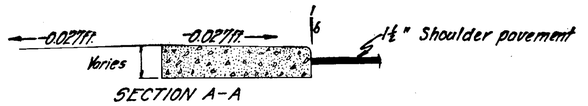


Transition from "V" to flat bottom ditch

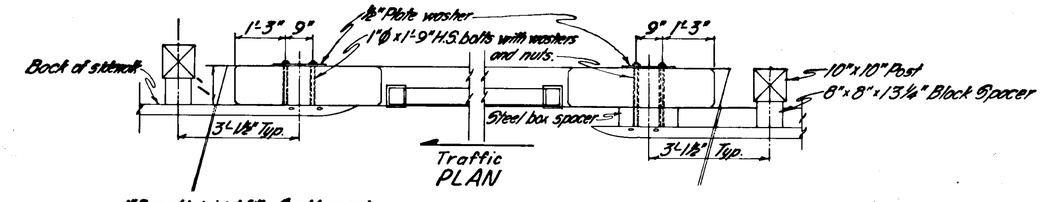
PLAN



ELEVATION

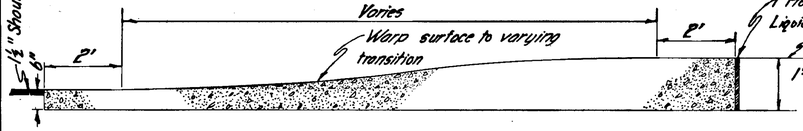


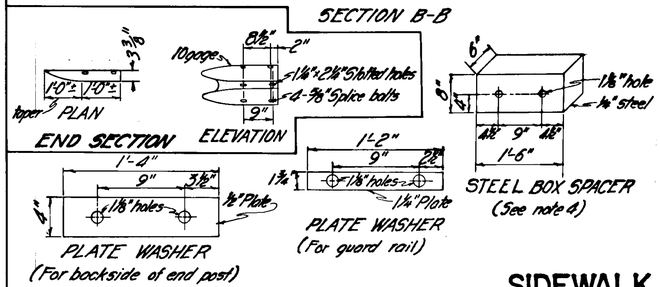
SECTION A-A



Traffic

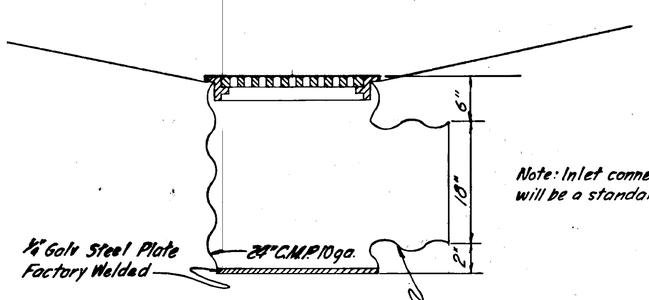
PLAN





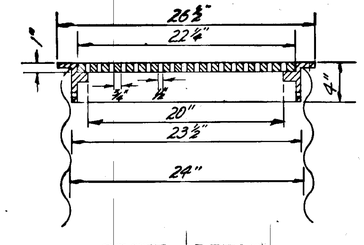
GENERAL NOTES

1. Connection of guardrail end sections to bridge end posts shall be made as shown on this sheet.
2. Mounting height of guardrail in sidewalk transition as shown on details.
3. Remove existing guardrail section and mounting posts 21' Rt. Sta. "As B" 5+98.0 to "As B" 6+11.0. Reset this section 20' Rt. of ℄, and splice to terminal section on bridge end post with an additional length of guard rail, as needed. Mounting posts and spacing shall conform to Std. Dwg. R-6. Discard existing terminal section opposite Sta. "As B" 5+98.00.
4. All Metal shall be shop galvanized.
5. When steel box spacer is installed, place a 1⅛" x 5⅜" pipe spacer on each 1" bolt passing through interior of box.
6. Remove and dispose of existing timber hazard posts at end of bridge sidewalks (2 total).



ELEVATION

Note: Inlet connection at Sta. 353+ will be a standard tee - 24"x24"x



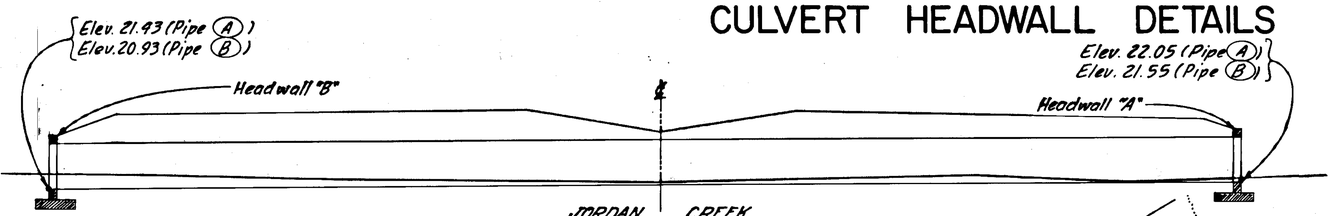
Note: Grate and Frame shall weigh a minimum of 160 lbs.

GRATE DETAIL

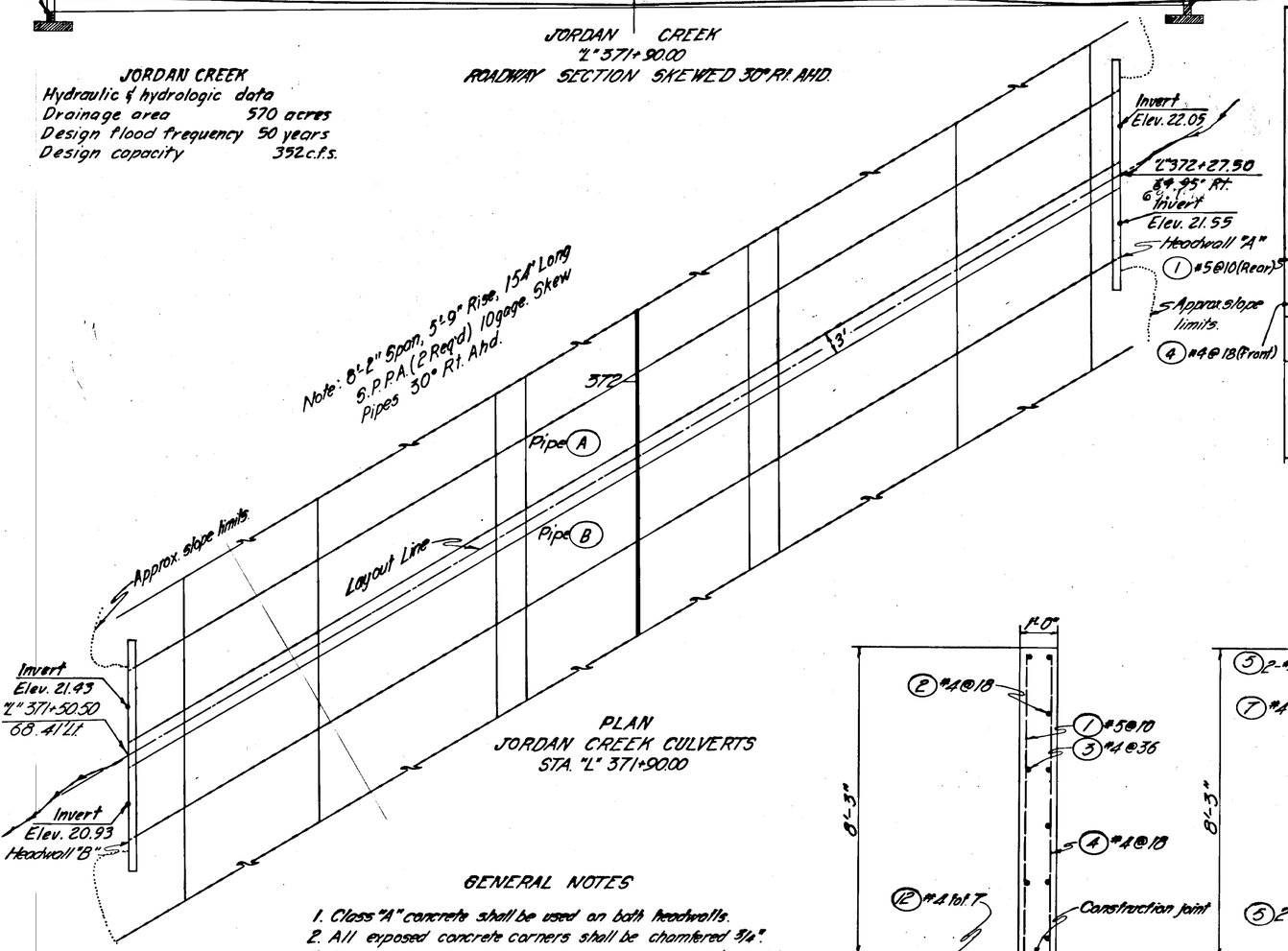
SIDEWALK & GUARDRAIL DETAILS

CULVERT HEADWALL DETAILS

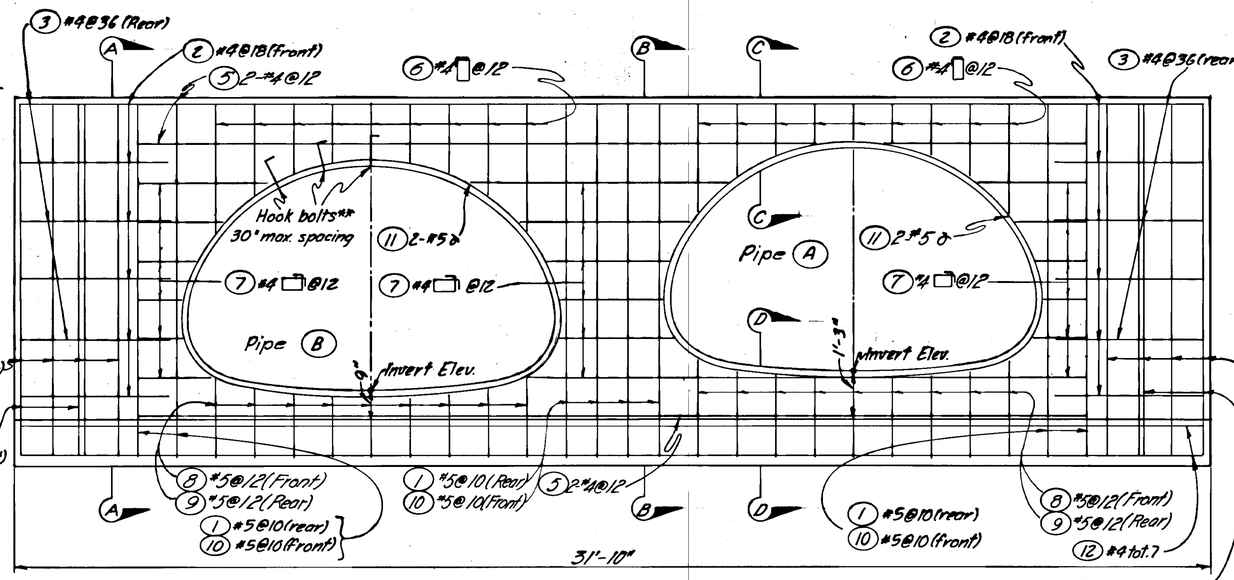
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	6	28



JORDAN CREEK
Hydraulic & hydrologic data
Drainage area 570 acres
Design flood frequency 50 years
Design capacity 352 c.f.s.



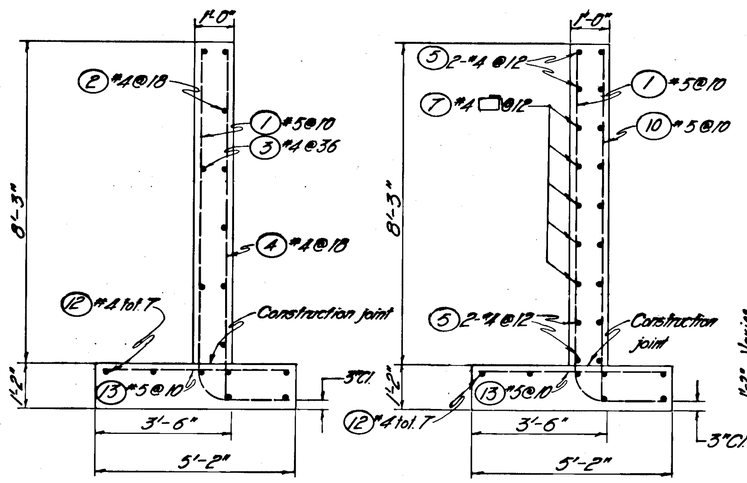
PLAN
JORDAN CREEK CULVERTS
STA. "L" 371+90.00



**Note: Hook bolts shall be placed around the entire periphery of each pipe, spacing not to exceed 30". Each structural plate shall be fastened to the headwall by at least one hookbolt.

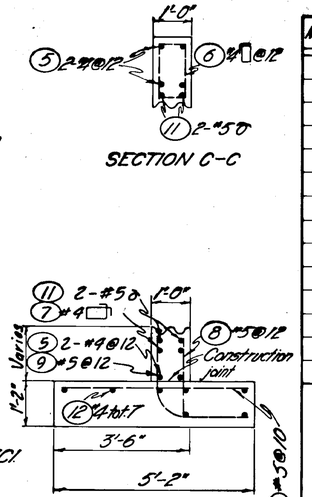
ELEVATION
Headwall "A" Shown*

*Note: Headwall "B" is identical to Headwall "A", except that the positions of the pipe openings are reversed.



SECTION A-A

SECTION B-B



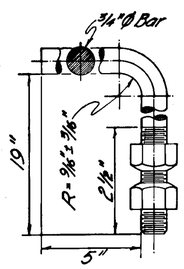
SECTION C-C

SECTION D-D

GENERAL NOTES

1. Class "A" concrete shall be used on both headwalls.
2. All exposed concrete corners shall be chamfered 3/4".
3. If unsuitable foundation material is encountered, it shall be removed and backfilled with suitable material as directed by the Engineer.
4. Furnishing and installation of hook bolts shall be incidental to class "A" concrete.
5. Hook bolts and nuts shall be galvanized.
6. Reinforcement shall be placed 2" clear from surface of concrete, unless otherwise noted.
7. Reinforcing steel shall be of intermediate grade.
8. All bar splices shall be lapped 20 bar diameters.

Hook bolts and nuts for imbedment in headwalls.



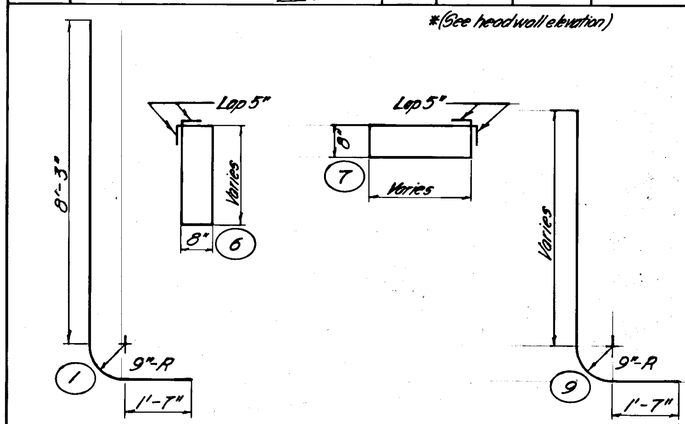
HOOK BOLT DETAIL

QUANTITIES FOR HEADWALLS		
Item	Wall "A"	Wall "B"
Reinforcing Steel	1149 lb	1149 lb
Class "A" Concrete	13.61 cu yd.	13.61 cu yd.

BAR LIST & BENDING DIAGRAM

MARK	LOCATION	SIZE	LENGTH FT-IN.	NO. REQ'D	REMARKS
1.	Headwall - Vertical - Rear	5	11-1	32	
2.	Headwall - Horizontal - Front	4	4-0	24	Str.
3.	Headwall - Horizontal - Rear	4	4-0	12	Str.
4.	Headwall - Vertical - Front	4	9-0	8	Str.
5.	Headwall - Horizontal - Front & Rear	4	24-5	12	Str.
6.	Headwall - Vertical over top of pipes	4	Varies	36	
7.	Headwall - Horiz. @ Side of/between pipes	4	Varies	36	
8.	Headwall - Vertical - below pipes (Front)	5	Varies	36	Str.
9.	Headwall - Vertical - below pipes (Rear)	5	Varies	36	
10.	Headwall - Vertical - Front	5	9-0	16	Str.
11.	Headwall - Loop Around pipes	5	26-0	8	*
12.	Footing - Longitudinal	4	31-4	14	Str.
13.	Footing - Transverse - Top	5	4-8	78	Str.
	Note: Quantities are for both headwalls				

*(See headwall elevation)



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	7	28

Vertical Contral: N.E. Cor. Brotherhood Bridge top of wingwall; adjusted Elevation is 37.80

Horizontal Control: Based on bearing of N 31° 32' 33.9" W ~~N 62°56' W~~ between ADH ~~B.P.R.~~ monuments at ~~12+70.45 P.I. and 16+12.5 P.T. Bk. = "A&B" 12+42.6 Ah.~~ "BING AND KEET" ESTABLISHED ON STATE PLANE COORDINATE TRIANGULATION NET IN 1966.

Embankment Equation:
Emb. = (Exc. - Waste)(Grading Factor) + (Borrow)(Weight Conversion Factor).

Exc. 2518 c.y. (Includes 739 c.y. waste) (Waste includes 600 cu.yd. from obliteration)
Borrow 57,542 tons (Includes 21,013 tons Selected material)

SPECIAL DITCH Rt. of ℄

STATION	OFFSET	F℄
349+00	65'	22.2
353+50	75'	23.1
355+50	75'	23.5

~~**SPECIAL DITCH Lt. of ℄**~~

~~Sta.~~	~~Offset~~	~~F℄~~
~~353+80~~	~~75'~~	~~22.0~~
~~354+00~~	~~75'~~	~~22.3~~
~~359+00~~	~~75'~~	~~24.5~~

~~**SPECIAL DITCH Rt. of E2**~~

~~E2 Sta.~~	~~Offset~~	~~F℄~~
~~345+00~~	~~6'~~	~~20.50~~
~~345+43.5~~	~~3'~~	~~20.55~~
~~346+00~~	~~17~~	~~20.61~~

MEDIAN PROFILE

From Sta.	From F℄	To Sta.	To F℄
348+50	28.96	350+50	28.61
350+50	28.61	353+68	27.25
353+68	27.75	356+92	29.00
356+42	29.00	359+00	27.13

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B. M. NOTED, STRUCTURE NOTATIONS CH'K'D — NOTE BOOK — NO. — BY — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	8	28

Exc. 1590 c.y. (includes 0 c.y. waste)
Borrow 53,211 tons (includes 21,013 tons Selected Material)

SPECIAL DITCH		
Rt. of ℄		
Sta.	Offset	Ⓔ
368+50	75'	24.2
371+80	83'	23.0
Lt. of ℄		
372+00	82'	~~24.0~~ 23.5
374+00	77'	~~24.6~~ 24.3

MEDIAN PROFILE			
From		To	
Sta.	Ⓔ	Sta.	Ⓔ
359+00	27.13	359+19	27.25
359+19	27.25	362+00	29.00
365+00	28.70	368+50	27.25
368+50	27.25	372+00	29.07
372+00	29.07	374+00	28.26

SPECIAL DITCH Lt. of ℄		
Sta.	Offset	Ⓔ
359+00	75'	24.5
359+19	75'	24.7

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, R/W CHECKED; NOTE BOOK, NO.; BY, DATE
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B. M.'S NOTED, STRUCTURE NOTATIONS CH'KD; NOTE BOOK, NO.; BY, DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	9	28

PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / PROFILE CHECKED / NOTE BOOK / NO. / BY / DATE

Sta. "L" 375+00 Install drop inlet 18"x72" pipe conduit.

375+97.76 ~~P.C.~~

25°56'24" ~~45°58'00"~~ "L" D = 3°00' L.I. 439.87' ~~T = 434.76'~~ 864.67' ~~E = 864.48'~~ R = 1909.86' S = 0.05'/ft

MENDENHALL

HURLOCK

Sta. "L" 384+00 Install drainlet 18" pipe conduit

"L" 384+62.43 PT (B.K.) = "L" 384+62.84 PT (Ahd)

AVENUE

AIRPORT

Sta. "L" 389+00 Install drop inlet 18"x72" pipe conduit.

Match Line "L" 374+00

~~N 32°00'00" W 1088.00'~~ N 33°26'28" W 1086.86'

375

R/W

Flow

Flow

3" Paving Limit

Special Ditch

380

3" Paving Limits

385

~~N 60°00'00" W ~ 930.00'~~ N 59°22'57" W ~ 918.10 to monument

Match Line "L" 389+00

Unimproved Road

3" Paving Limit

R/W

R/W

R/W

DRIVE

FIELD

"L" 380+38.16 P.I.

Exc. 9013 c.y. (includes 6493 c.y. waste)
Borrow 32,149 Tons (includes 20,157 tons Selected Material)

PROFILE — SURVEYED / DRAWN / TRACED / NOTE BOOK / GRADES CHECKED / R.P. NOTED / STRUCTURES / STATIONS CHKD / NO.

SPECIAL DITCH Lt. of ℄		
Sta.	Offset	ft.
374+00	77'	24.3
379+00	66'	~~27.62~~ 27.63
381+00	66'	25.11
384+00	66	24.53
389+00	73'	23.62
All Offsets to Lt. of ℄.		

Special Ditch Rt of ℄		
Station	offset	ft
383+00	75'	27'
389+00	67'	24.9

MEDIAN PROFILE			
From		To	
Sta.	ft	Sta.	ft
374+00	28.26	375+00	27.68
375+00	27.68	379+00	29.79
379+00	29.79	384+00	26.86
384+00	26.86	386+00	28.05
386+00	28.05	389+00	25.89

Elev. 32.00 400' V.C.

V.P.I. "L" 379+00

Elev. 29.60 400' V.C.

V.P.I. "L" 388+00

+0.143%

-0.58%

+0.528%

~~+0.53%~~ +0.05%

special ditch

Finish profile

Median Profile

Ground Line

-0.586%

-0.627%

-0.278%

+0.599%

-0.28%

-0.72%

30

20

10

374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389

Strip 1' Strip 5' Strip 1'

PLATE 1, PLAN-PROFILE
MERRIFELD & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	10	28

HURLOCK AVENUE
DRIVE
O'DAY
LOOP ROAD
Duck Creek
Existing 4 round shelter on concrete
"M" 491+27.25 Match existing roadway
"M" 494+45.72 Match existing roadway
Match Line "L" 389+00
Match Line "O" 404+00
N59°22'52"W ~ 918.70 to monument
3" Paving Limit
3" Paving Limits
"L" 393+81.54 (BK) = "M" 492+85.06
393+93.42 P.O.T. (BK) =
Sta "O" 394+36 Install 2 - 48" x 134' Pipe Conduits with End Sections at inlets and outlets.
Buried Tele Cables (approximate) Two 4" conduits will be installed by others prior to construction.
Note: For Loop Road Intersection detail see sheet No. 15
"O" D = 4°30' θs = 5°03'45" Ls = 225.00' S = 0.06'/ft.
Note: "O" line curve differs from R/W alignment.
Existing quonset hut frame
"O" 397+50 - Install drop inlet & 18" pipe conduit.
"O" 402+50 - Install drop inlet & 18" pipe conduit.
Sta "O" 398+00 End fence lt. & rt. End access control
R/W
35'
32'
Exc. 9225 cu.yd. (Includes 2116 cu.yd. Waste)
Borrow 30,485 tons (Includes 23,143 tons Selected Material)
Finished Profile
Median profile
Special ditch
Ground Line
2-4" Conduit
Telephone cables (approximate)
Elev. 30.0 No V.C.
V.P.I. "L" 393+75.00
Elev. 32.01 400' V.C.
V.P.I. "O" 403+82.00
+0.087%
+0.50%
-0.28%
-0.5%
+0.9%
+1.6%
-0.01
+0.200%
-0.516%
+0.676%
Strip 1'
PLAN
PROFILE

SPECIAL DITCHES

Sta.	Offset	℄	
389+00	73'	23.2	
392+33	73'	22.6	
394+61	78'	24.0	
397+50	78'	24.0	
398+00	70'	24.8	
402+50	70'	24.8	
389+00	67.3	24.9	Rt
393+00	80.2	24.5	Rt

MEDIAN PROFILE

From		To	
Sta.	℄	Sta.	℄
389+00	25.89	393+00	27.88
395+00	28.25	397+50	27.00
397+50	27.00	400+00	29.25
400+00	29.25	402+50	27.96
402+50	27.96	404+00	28.98

(P.A) Inlet Elev. 21.38	Outlet Elev. 20.90
(P.B) Inlet Elev. 21.88	Outlet Elev. 21.42

K+E PLAN & PROFILE KEUFFEL & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	11	28

MEDIAN PROFILE

To		From	
Sta.	FE	Sta	FE
404+00	28.98	405+00	29.65

SPECIAL DITCH Rt. of ℄

Sta.	Offset	FE
414+18	50	21.00
419+00	50	20.96
~~405+50~~	~~70.7~~	~~24.2~~
~~413+50~~	~~46.2~~	~~22.6~~

PLAN — NOTE BOOK / SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED

PROFILE — NOTE BOOK / SURVEYED / PLOTTED / GRADES CHECKED / D. M. S NOTED / STRUCTURE NOTATIONS CK'D

K+E PLATE 1 PLAN-PROFILE KEUFFEL & ESSER CO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	12	28

BEARING EQUATION
F-095-8(7) N 77°15'44"W =
"As-Built" F-095-8(6) N 77°13'50"W

Obliterate existing roadway Sta. 0+21.9+15.00
Relocate Mailbox 20' L.t.
Sta. 0+21.9+52
Construct Type 1A approach Lt.

R/W
E Glacier Hwy
18" Paving Limit
R=30'
R=30'
420
3" Paving Limit
N 77° 15' 44" W ~ 337.72'
3" Paving Limit
R=30'
R=30'
Flow
18" Paving Limit
R/W
Existing R/W Mon.

422+94.62 Bk. =
2"422+94.68 Ahd.
"As Built" 2+79.39 Ahd.

MENDENHALL RIVER

Sta. "As-Built" ~~2+89.71-85'~~ Rt.
Construct headwall, install
48"x30' pipe conduit from
headwall to river
See detail, Sheet no. 5

Existing Guard Rail

Viewpoint Area

Note: See Guardrail and Sidewalk details on sheet No. 5

Match Line "0" 419+00

Δ 19+55.11 P.T. Bk. =
~~D+19+55.15 P.T. Bk. =~~
2" 419+56.96 P.O.T. Ahd.

Sta 2" 420+27
Construct Type 1A approach Rt.
Plug and abandon Existing 24" x
80' Pipe Conduit at 23' Rt.
Install 48" x 70' Pipe Conduit
47' Rt.

END OF PROJECT
F-095-8(7)
Sta. "L" 422+94.68

Exc. 899 cu yd (includes 605 cu yd waste from obliteration)
Borrow 3198 Tons (Includes 2648 tons Selected Material)

SPECIAL DITCH		
Sta.	Offset	Ft.
419+00	50	20.95
421+00	50	20.92
~~"As Built" 2+89.71~~ 65+61	50	20.91

Δ 419+66.15 P.T. Bk. =
2" 419+56.96 P.O.T. Ahd.

Ground line
+1.032%

Finished Profile

-0.01%

special ditch

Match Existing Bridge Deck
Begin Bridge, Elev. 36.21 H&WG

2" 422+94.68 =
"As Built" 2+79.39

-2.0%

Mendenhall River

0+12 Edge of pavement
Elev. 35.05

1+40 40' V.C.
Elev. 34.40

Finished profile

-6.5%

1+93 Match existing Road
Elev. 31.00

Ground line

Approach Road Rt.
Sta. "L" 420+27

419 420 421 422

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

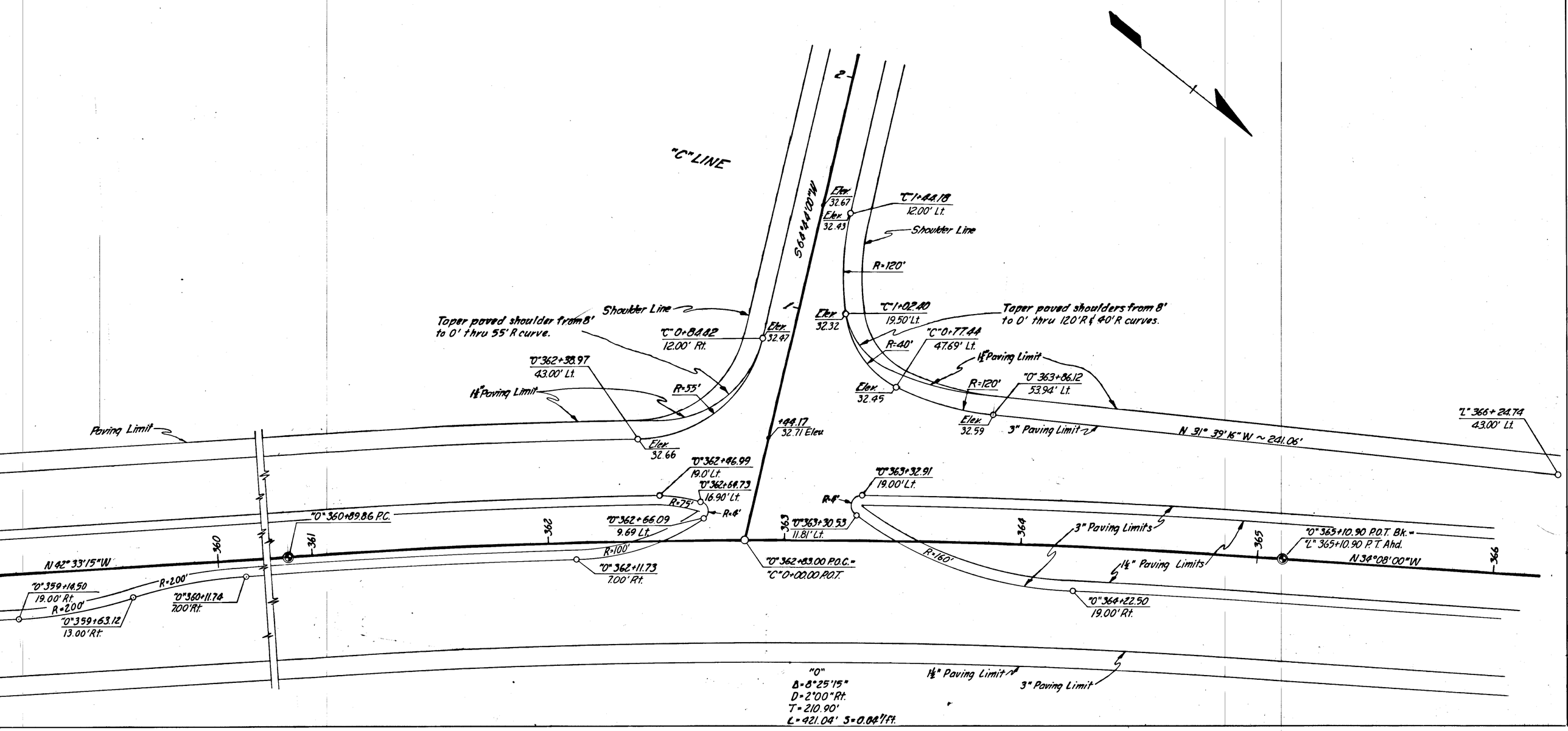
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	13	28

"C" LINE

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

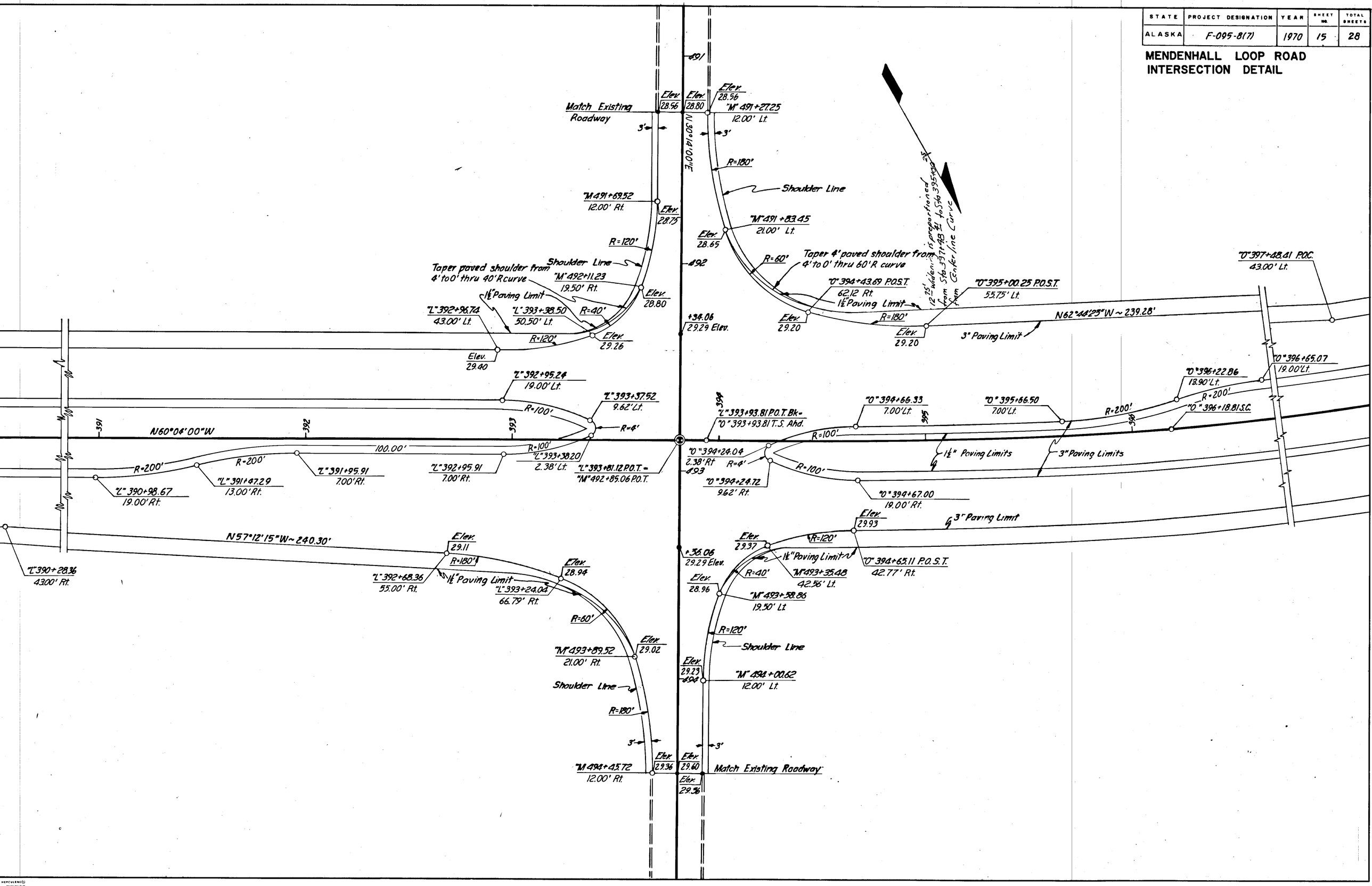
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	14	28

SMITH'S DAIRY INTERSECTION



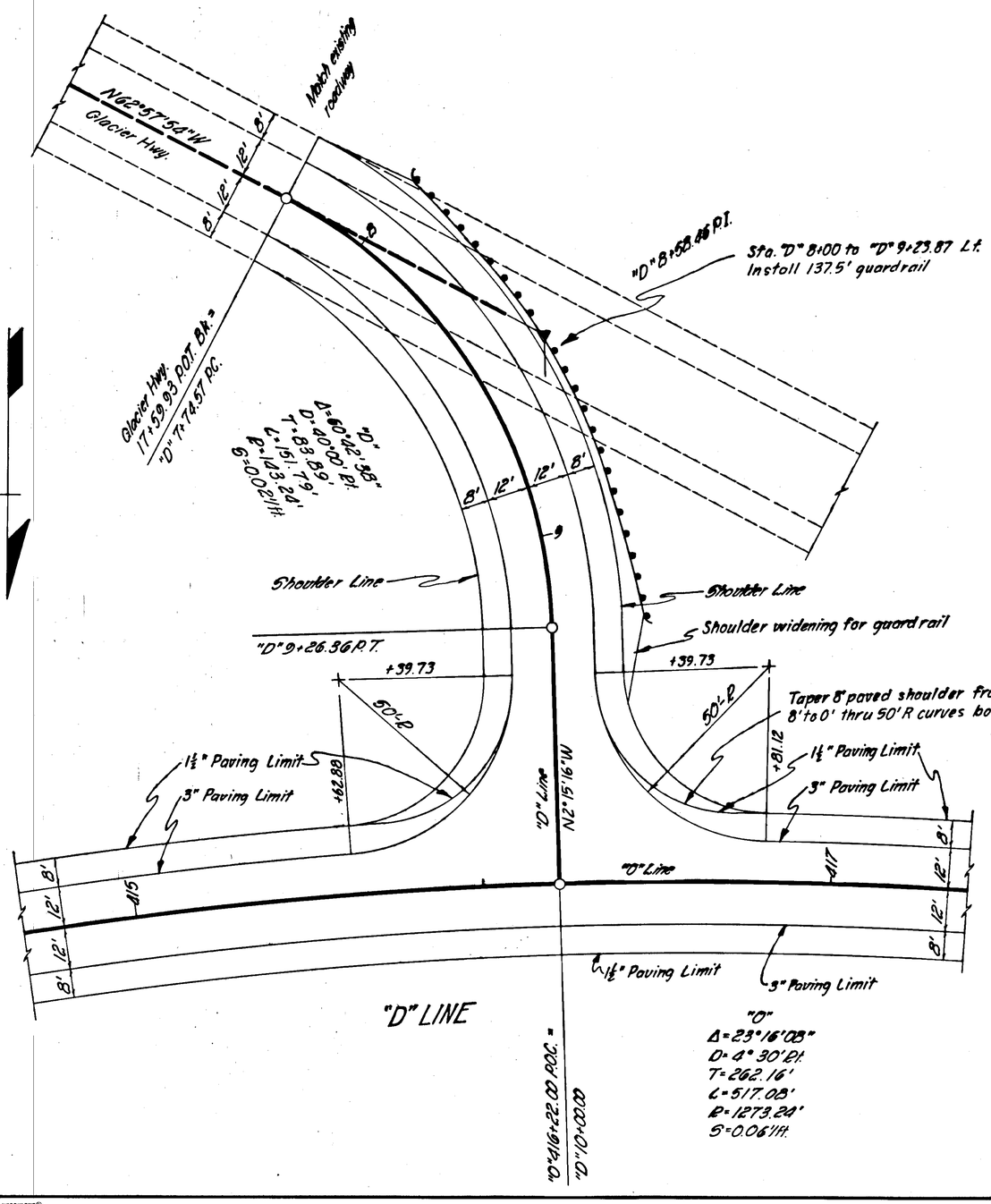
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	15	28

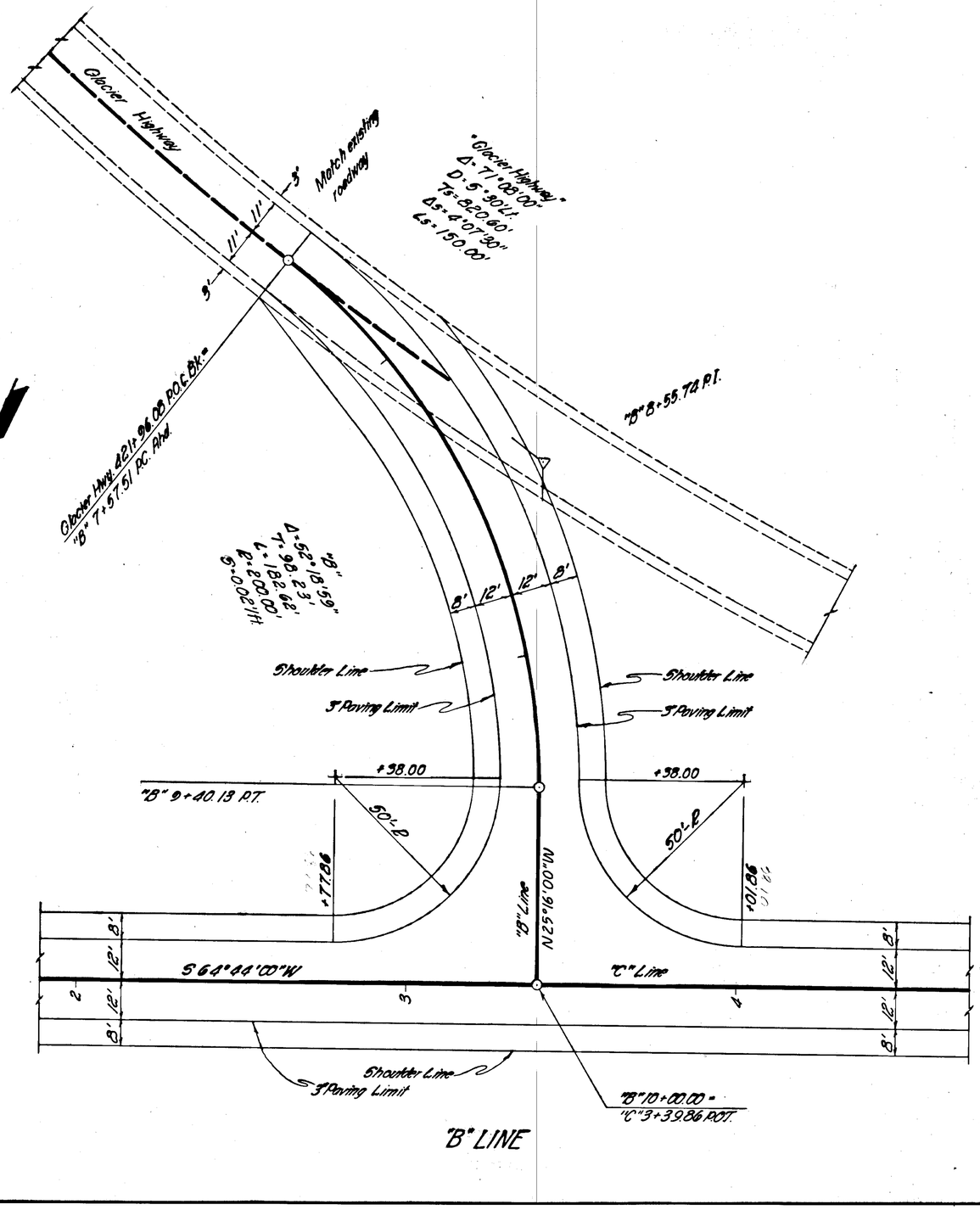
MENDENHALL LOOP ROAD
INTERSECTION DETAIL



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	16	28

INTERSECTION DETAILS

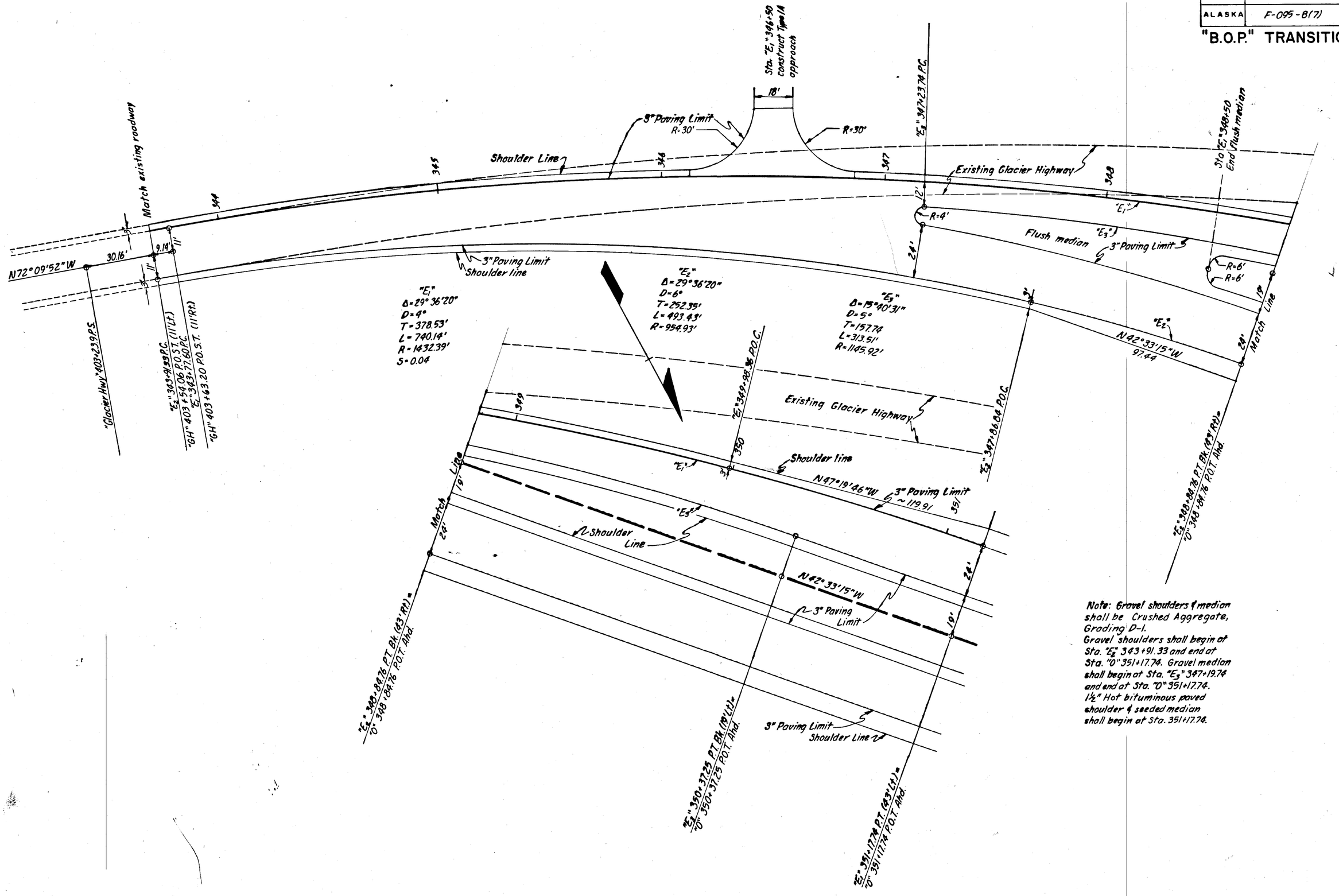




"B" LINE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	17	28

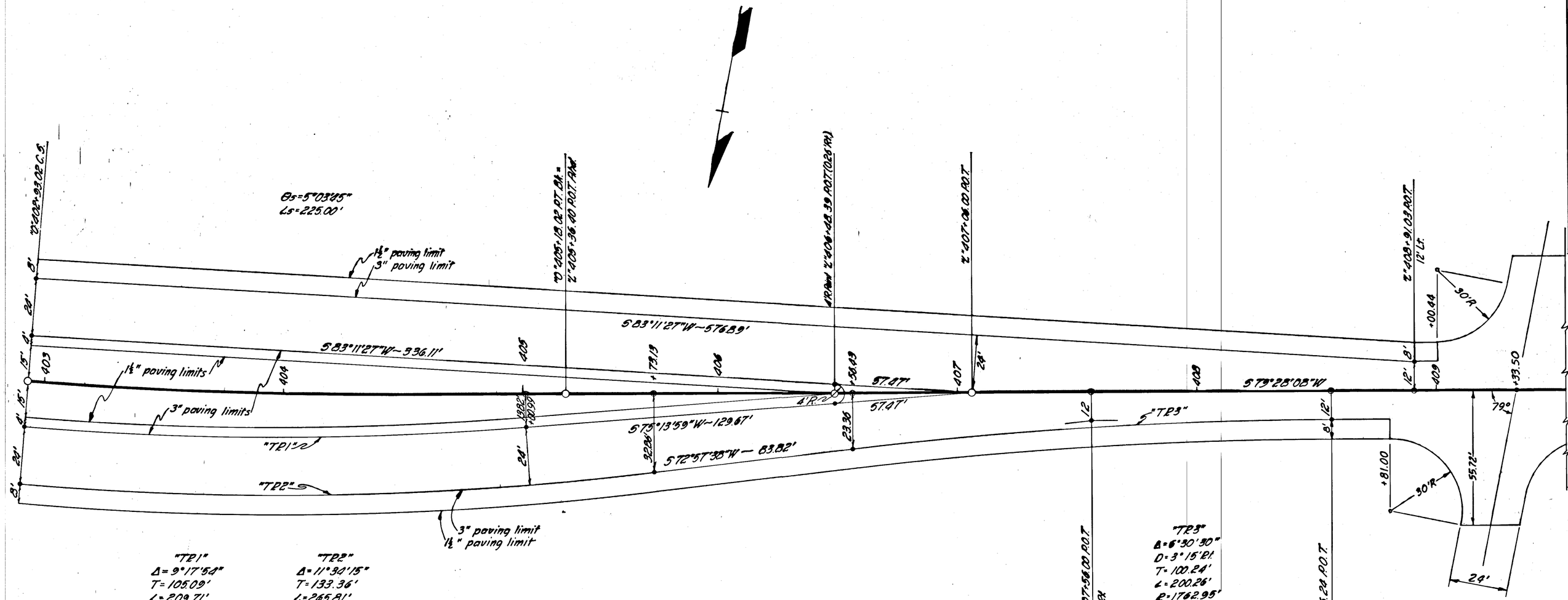
"B.O.P." TRANSITION



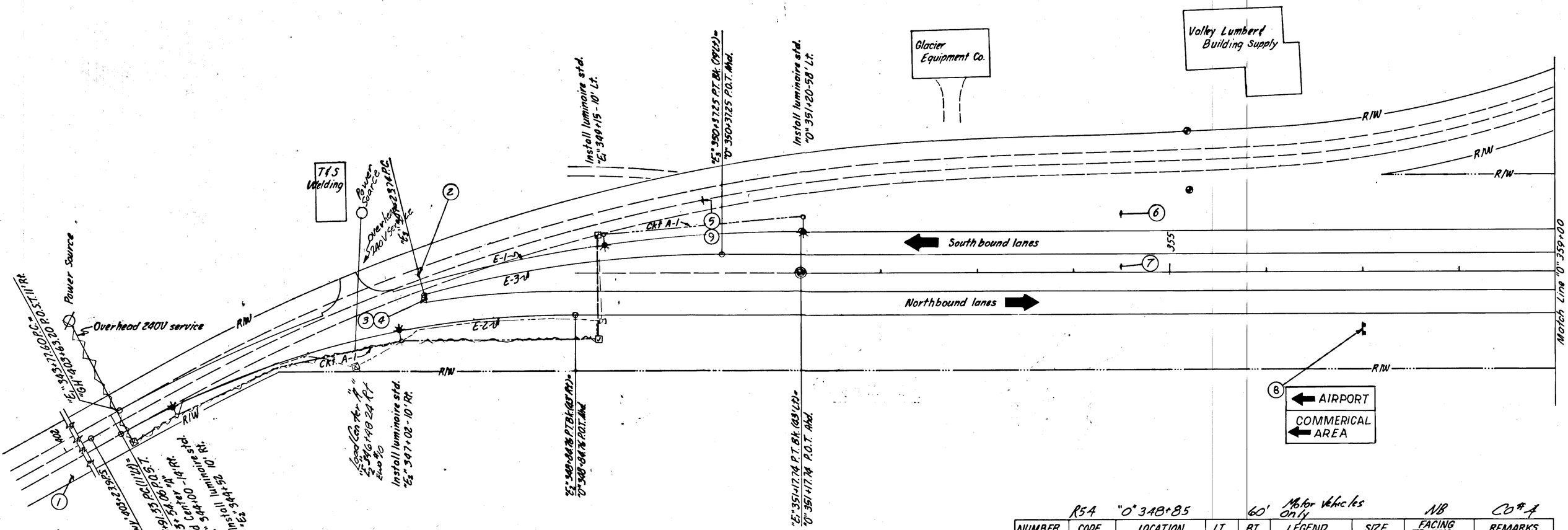
Note: Gravel shoulders & median shall be Crushed Aggregate, Grading D-1.
Gravel shoulders shall begin at Sta. "E2" 343+91.33 and end at Sta. "O" 351+17.74. Gravel median shall begin at Sta. "E3" 347+19.74 and end at Sta. "O" 351+17.74.
1½" Hot bituminous paved shoulder & seeded median shall begin at Sta. 351+17.74.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	18	28

TRANSITION DETAILS



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	19	28



GENERAL ILLUMINATION NOTES

1. Locations given are approximate only and are subject to minor field adjustment by the Engineer.
2. "Std." is an abbreviation for "standard".
3. Foundations for luminaire stds. shall be cast in place against undisturbed soil.
4. All luminaires shall be mounted 40 feet above roadway by assemblying components to obtain mounting height.
5. All mast arms shall be 15 feet long unless otherwise noted.
6. There shall be rigid metal conduit under roadway.
7. All conduit shall be 2 inch.
8. Lighting contactors in all load centers shall be rated 50 amps.

NOTES

1. Luminaires "E₂" 344+52, "E₂" 347+02, "E," 349+15, & "D" 351+20 shall be ~~mercury~~ 250 watt 400 watt High Pressure Sodium vapor, ~~700 watt~~, H35, 37,000 initial vertical lumens, medium semi cutoff, USASI Type III.
2. Main breaker load center "A" rated 35 amps. Circuit A-1 breaker rated 20 amps.
3. Wire size for circuit A-1 shall be no. 6 AWG.
4. Luminaires "E₂" 344+52, "E₂" 347+02, & "E," 349+15 shall have 10' long mast arms.

R54 "D" 348+85 60' Motor Vehicles Only NB CO#4

NUMBER	CODE	LOCATION	LT.	RT.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
(1)	W6-1	"GH" 401+92		26'	DIVIDED HWY	36"x36"	NB	
(2)	W6-3	"E," 347+18	9'		TWO WAY TRAFFIC	36"x36"	SB	
(3)	R4-7	"E₂" 347+24		4'	KEEP ➡ RIGHT	24"x30"	NB	
(4)	W14-6	"E₂" 347+24		4'	9 Button reflector	18"x18"	NB	Under R4-7
(5)	W14-6	"D" 350+15	75'		9 Button reflector	18"x18"	SB	Under W14-3
(6)	W4-2-21R	"D" 354+50	60'		⫛	36"x36"	SB	
(7)	W4-2-21R	"D" 354+50	6'		⫛	36"x36"	SB	
(8)	D1-3	"D" 357+00		60'	See plan	72"x42"	NB	
(9)	W14-3	"D" 350+15	75'		END	30"x30"	SB	

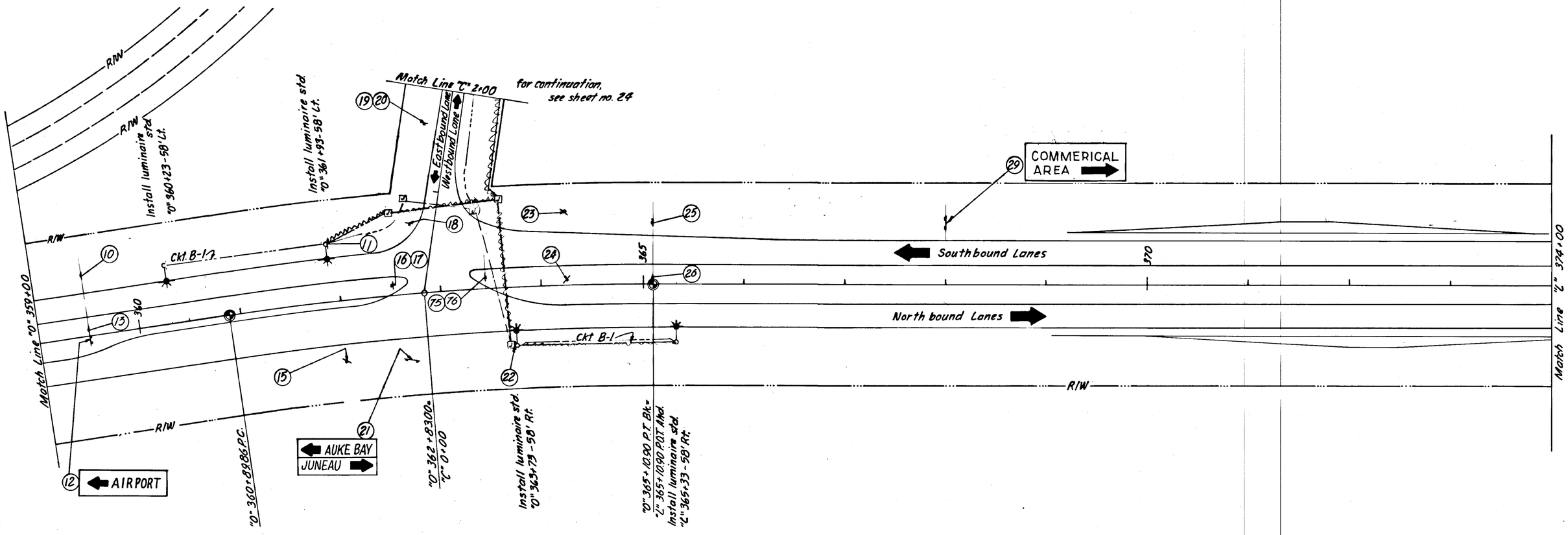
Guide Markers EWO#3

Station	Location	A	B	C
~~GH 396+00~~	Lt. Shld	/		
~~GH 396+00~~	Rt Shld	/		
GH 399+00	Lt Shld	/		
GH 399+00	Rt Shld	/		
GH 402+00	Lt Shld	/		
GH 402+00	Rt Shld	/		
~~GH 403+50~~	Rt Shld	/		
GH 403+63	Lt Shld	/		
E₂ 344+89	Rt Shld		/	
E 344+89	Lt Shld		/	
E₂ 345+88	Rt Shld		/	
E 346+00	Lt Shld			/
E₂ 346+87	Rt Shld		/	
E 347+00	Lt Shld			/
E₂ 347+86	Rt Median Shld		/	
E₂ 347+86	Rt Shld		/	
E 348+00	Lt Shld		/	

Guide Markers EWO#5

Station	Location	A	B	C	D
"D" 348+85	Rt Median Shld		/		
E₂ 348+85	Rt Shld		/		
E 349+00	Lt Shld		/		
"D" 350+00	Lt Shld		/		
"D" 350+00	Rt Median Shld		/		
"D" 351+00	Lt Shld		/		
"D" 352+00	Lt Shld		/		
"D" 352+14	Rt Median Shld		/		
"D" 353+00	Lt Shld		/		
"D" 354+00	Lt Shld		/		
"D" 354+00	Rt Shld		/		
"D" 355+00	Lt Shld		/		
"D" 355+14	Rt Median Shld		/		
"D" 356+00	Lt. Shld		/		
"D" 358+14	Rt Median Shld		/		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	20	28



NOTES 250 watt 400 watt

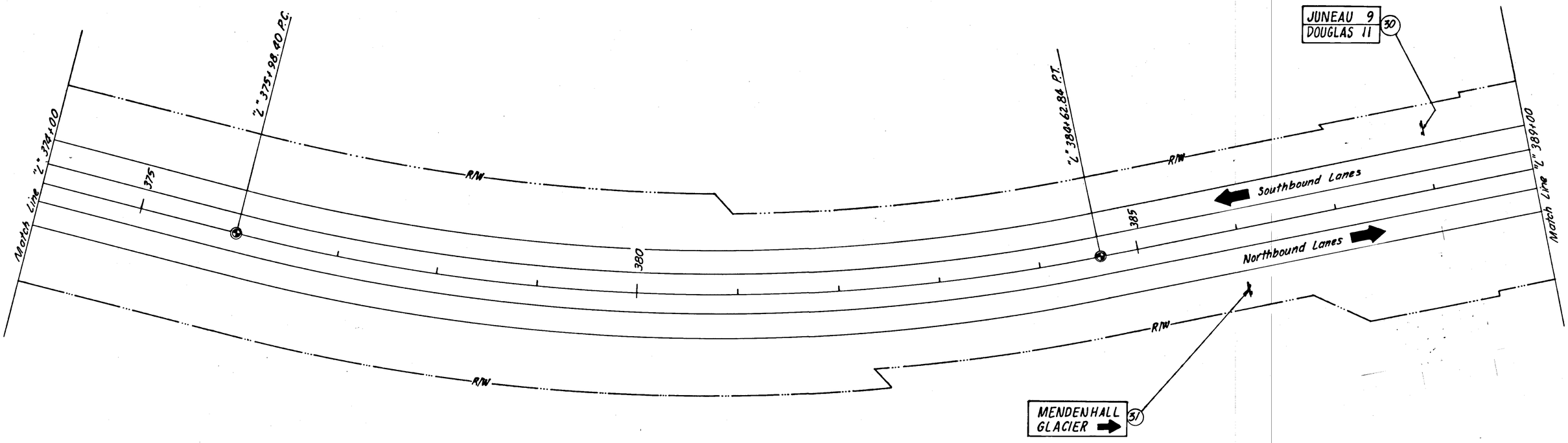
1. Luminaires "0" 360+23, "0" 361+93, "0" 363+73 & "L" 365+33 shall be mercury High Pressure Sodium vapor, 400 watt, H35, 37,000 initial vertical lumens, medium semi cutoff, USASI Type III.

Guide Markers EWD # 5					
Station	Location	A	B	C	D
"L" 359+00	Rt Shld		1		
"C" 359+00	Lt Shld		1		
"L" 359+14	Rt Median Shld			1	
"C" 360+12	Rt Median Shld			1	
"L" 361+12	Rt Median Shld			1	
"C" 361+39	Lt Shld			1	
"L" 361+47	Lt Median Shld			1	
"C" 362+12	Rt Median Shld			1	
"L" 362+39	Lt Shld			1	
"C" 362+47	Lt Median Shld			1	
"L" 363+43	Lt Median Shld			1	
"C" 363+45	Lt Shld			1	
"L" 364+00	Rt Shld		1		
"C" 364+22	Rt Median Shld			1	
"C" 364+25	Lt Shld			1	
"L" 364+43	Lt Median Shld			1	
"C" 365+11	Rt Median Shld			1	
"C" 365+25	Lt Shld			1	
"L" 366+25	Lt Shld			1	
"L" 367+00	Rt Shld		1		
"L" 367+65	Lt Median Shld		1		
"L" 368+00	Lt Shld		1		
"L" 368+11	Rt Median Shld		1		
"L" 370+00	Rt Shld		1		
"L" 370+65	Lt Median Shld		1		
"L" 371+00	Rt Median Shld		1		

Guide Markers EWD #5					
Station	Location	A	B	C	D
"L" 371+00	Lt Shld		1		
"L" 373+65	Lt Median Shld		1		
"L" 374+00	Rt Median Shld		1		
"L" 374+00	Lt Shld		1		
"L" 374+00	Rt Shld		1		

NUMBER	CODE	LOCATION	Lt.	Rt.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
(10)	W9-1R	"0" 359+50	60'		RIGHT LANE ENDS	36" x 36"	SB	
(11)	M1-2-7	"0" 361+93	58'		Route Marker	24" x 24"	SB	Bond to Light Pole
(12)	D1-1	"0" 359+50		4'	See plan	66" x 18"	NB	
(13)	W9-1R	"0" 359+50	6'		RIGHT LANE ENDS	36" x 36"	SB	
(15)	R5-1	"0" 362+00		60'	DO NOT ENTER	36" x 36"	SB	Face 45° Lt.
(16)	R4-7	"0" 362+52	10'		KEEP ➡ RIGHT	24" x 30"	SB	
(17)	W16-6	"0" 362+52	10'		9 Button reflector	18" x 18"	SB	Under R4-7
(18)	R1-1	"C" 0+65	24'		STOP	30" x 30"	EB	
(19)	M1-2-7	"C" 1+65	24'		Route Marker	24" x 24"	EB	
(20)	M4-4	"C" 1+65	24'		⬌	21" x 15"	EB	Under M1-2-7
(21)	D1-2	"0" 362+65		65'	See Plan	78" x 36"	EB	Face "C" Line
(22)	M1-2-7	"0" 363+73		58'	Route Marker	24" x 24"	NB	Bond to Light Pole
(23)	R5-1	"0" 364+25	72'		DO NOT ENTER	36" x 36"	NB	Face 45° Lt.
(24)	R5-1	"0" 364+25	6'		DO NOT ENTER	36" x 36"	NB	Face 45° Rt.
(25)	W6-2	"0" 365+10	60'		DIVIDED HWY. ENDS	36" x 36"	SB	
(26)	W6-2	"0" 365+10	6'		DIVIDED HWY. ENDS	36" x 36"	SB	
(29)	D1-2	"L" 368+00	60'		See Plan	72" x 30"	SB	
(75)	R4-7	"0" 363+45	10'		KEEP RIGHT	24" x 30"	NB	
(76)	W16-6	"0" 363+45	10'		9 Button reflector	18" x 18"	NB	Under R4-7
	R5-4	"0" 361+93	58'		Motor Vehicles only		SB	Under M1-2-7 Co #4
	R5-3	"0" 364+50	60'		Pedestrians Prohibited		NB	Co #4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	21	28

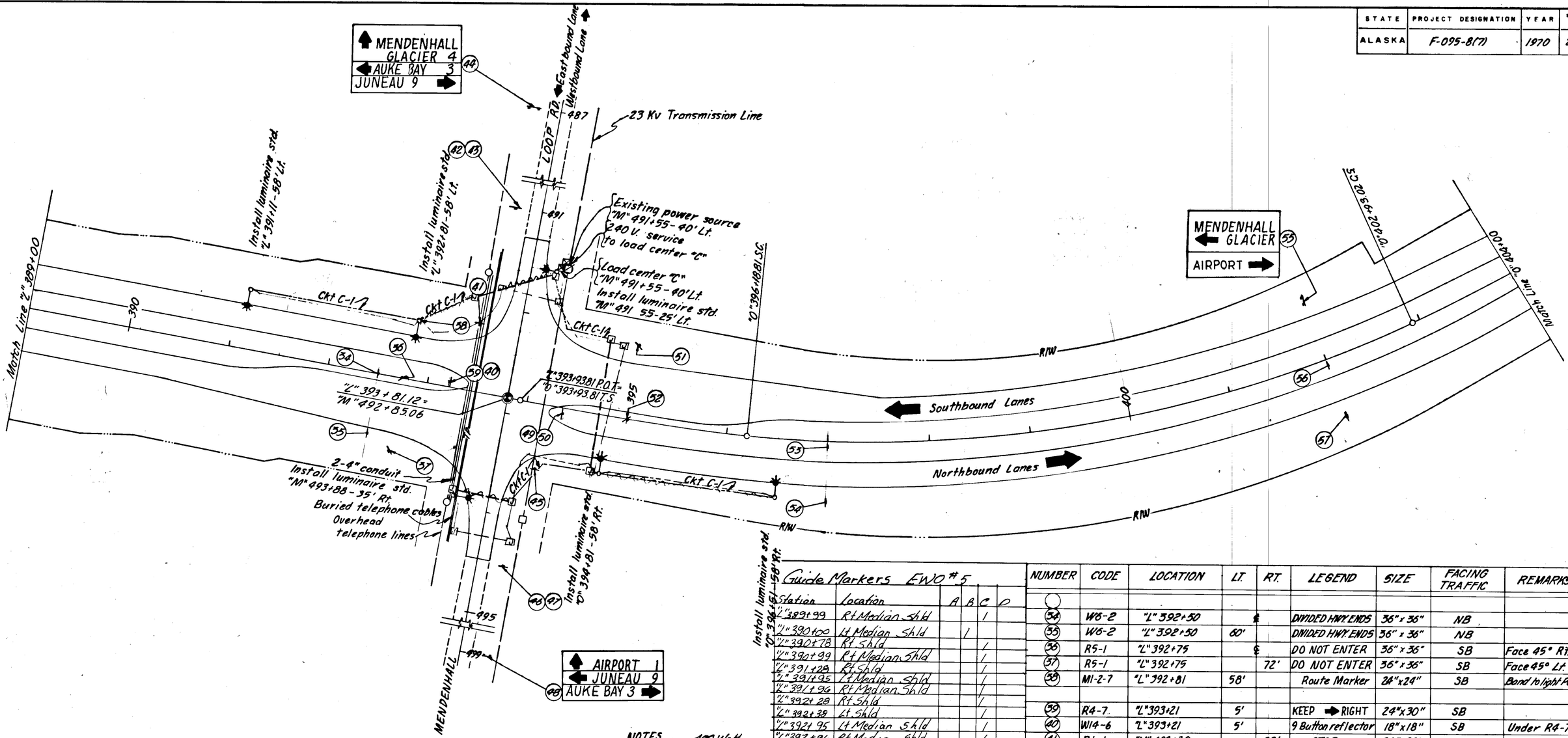


Guide Markers EWO #5

Station	Location	A	B	C	D
"L" 375+98	Right Shld		1		
"L" 375+98	Lt Median Shld		1		
"L" 377+21	Rt Shld		1		
"L" 377+21	Lt Median Shld		1		
"L" 378+44	Rt Shld		1		
"L" 378+44	Lt Median Shld		1		
"L" 379+00	Lt Shld		1		
"L" 379+68	Rt Shld		1		
"L" 379+68	Lt Median Shld		1		
"L" 380+92	Rt Shld		1		
"L" 380+92	Lt Median Shld		1		
"L" 382+16	Rt Shld		1		
"L" 382+16	Lt Median Shld		1		
"L" 383+40	Rt Shld		1		
"L" 383+40	Lt Median Shld		1		
"L" 384+00	Lt Shld		1		
"L" 384+63	Rt Shld		1		
"L" 384+63	Lt Median Shld		1		
"L" 387+00	Rt Shld		1		
"L" 387+00	Lt Median Shld		1		
"L" 389+00	Lt Shld		1		

NUMBER	CODE	LOCATION	LT.	RT.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
30	D1-12	"L" 388+00	60'		See plan	66"x30"	SB	
31	D1-1	"L" 386+00		60'	See plan	78"x30"	NB	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	22	28



NOTES

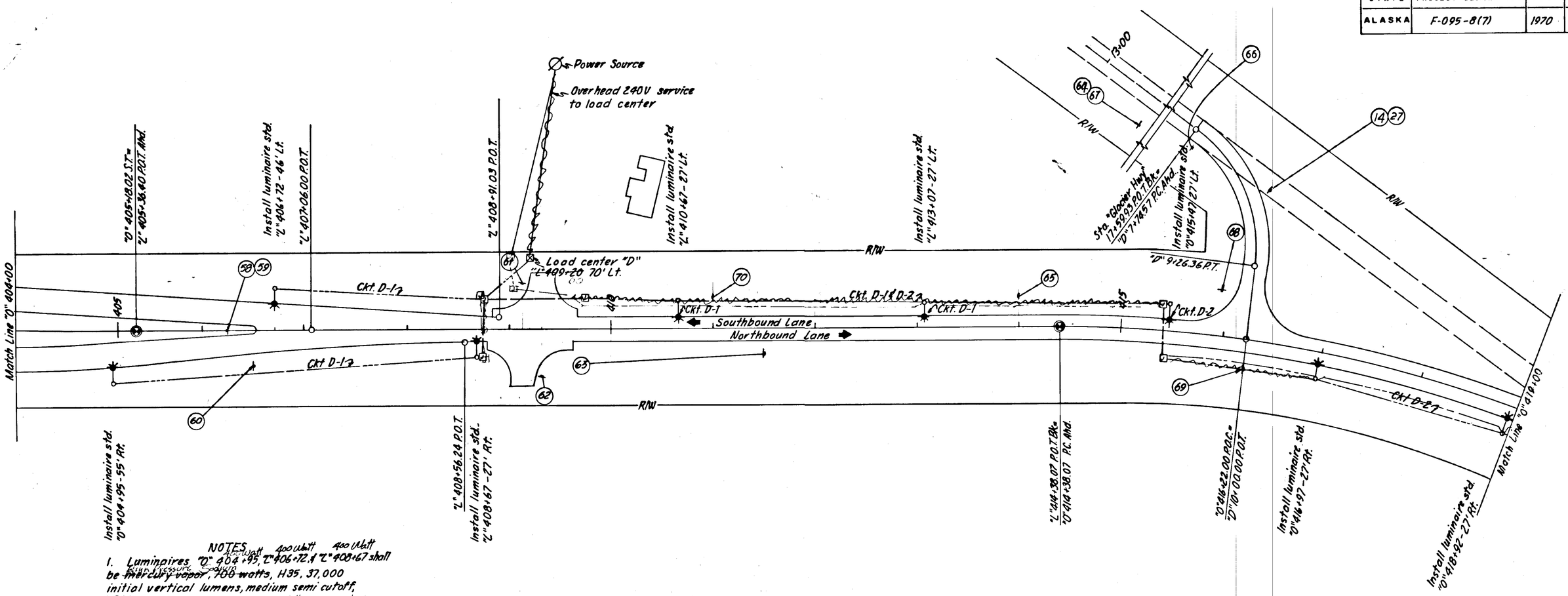
1. Luminaires "L" 392+81 & "O" 394+81 shall be ~~mercury vapor~~, ~~1000 watts~~ 400 Watt High Pressure Sodium; H36, 56,000 initial vertical lumens, USASI Type III, medium semi cutoff.
2. Luminaires "L" 391+11, "M" 491+55, "M" 493+88, & "O" 396+51 shall be ~~mercury vapor~~, 700 watts 250 Watt High Pressure Sodium H35, 37,000 initial vertical lumens, USASI Type III, medium semi cutoff.
3. Main circuit breaker load center "C" rated at 35 amps. Circuit C-1 breaker rated 25 amps.
4. Wire size circuit C-1 shall be no. 8 AWG.
5. Luminaire "M" 491+55 shall have 10' long mast arm.

Guide Markers EWO #5

Station	Location	A	B	C	D
"L" 389+99	Rt Median Shld				1
"L" 390+00	Lt Median Shld			1	
"L" 390+78	Rt Shld				1
"L" 390+99	Rt Median Shld				1
"L" 391+28	Rt Shld				1
"L" 391+95	Lt Median Shld				1
"L" 391+96	Rt Median Shld				1
"L" 392+28	Rt Shld				1
"L" 392+38	Lt Shld				1
"L" 392+95	Lt Median Shld				1
"L" 392+96	Rt Median Shld				1
"L" 393+28	Rt Shld				1
"L" 393+38	Lt Shld				1
"O" 394+35	Rt Shld				1
"O" 394+44	Lt Shld				1
"O" 394+66	Lt Median Shld				1
"O" 394+67	Rt Median Shld				1
"O" 395+35	Rt Shld				1
"O" 395+48	Lt Shld				1
"O" 395+66	Lt Median Shld				1
"O" 395+67	Rt Median Shld				1
"O" 396+48	Lt Shld				1
"O" 396+35	Rt Shld			1	
"O" 396+65	Lt Median Shld			1	1
"O" 397+36	Rt Shld			1	
"O" 397+48	Lt Shld				1
"O" 397+65	Lt Median Shld				1
"O" 398+37	Rt Shld			1	
"O" 398+70	Lt Median Shld			1	
"O" 399+37	Rt Shld			1	
"O" 399+76	Lt Median Shld			1	
"O" 400+38	Rt Shld			1	
"O" 400+82	Lt Median Shld			1	
"O" 401+38	Rt Shld			1	
"O" 401+88	Lt Median Shld			1	
"O" 401+98	Lt Shld			1	
"O" 402+38	Rt Shld			1	
"O" 402+93	Lt Median Shld			1	
"O" 403+38	Rt Shld			1	

NUMBER	CODE	LOCATION	LT.	RT.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
34	W6-2	"L" 392+50		℄	DIVIDED HWY. ENDS	36" x 36"	NB	
35	W6-2	"L" 392+50	60'		DIVIDED HWY. ENDS	36" x 36"	NB	
36	R5-1	"L" 392+75		℄	DO NOT ENTER	36" x 36"	SB	Face 45° Rt.
37	R5-1	"L" 392+75		72'	DO NOT ENTER	36" x 36"	SB	Face 45° Lt.
38	MI-2-7	"L" 392+81	58'		Route Marker	24"x24"	SB	Bond to light Pole
39	R4-7	"L" 393+21	5'		KEEP ➡ RIGHT	24"x30"	SB	
40	W14-6	"L" 393+21	5'		9 Button reflector	18"x18"	SB	Under R4-7
41	R1-1	"M" 492+20		38'	STOP	30"x30"	EB	
42	MI-2-7	"M" 491+00		26'	Route Marker	24"x24"	EB	
43	M4-4	"M" 491+00		26'	⬌	21"x15"	EB	Under MI-2-7
44	D1-13	"M" 487+00		26'	See Plan	84"x48"	EB	
45	R1-1	"M" 493+50	38'		STOP	30"x30"	WB	
46	MI-2-7	"M" 494+50	26'		Route Marker	24"x24"	WB	
47	M4-4	"M" 494+50	26'		⬌	21"x15"	WB	Under MI-2-7
48	D1-13	"M" 499+00	26'		See Plan	84"x36"	WB	
49	R4-7	"O" 394+37		6'	KEEP ➡ RIGHT	24"x30"	NB	
50	W14-6	"O" 394+37		6'	9 Button Reflector	18"x18"	NB	Under R4-7
51	R5-1	"O" 399+00	72'		DO NOT ENTER	36" x 36"	NB	Face 45° Rt.
52	R5-1	"O" 395+00		℄	DO NOT ENTER	36" x 36"	NB	Face 45° Lt.
53	W8-9R	"O" 397+00		6'	RIGHT LANE ENDS	36" x 36"	NB	
54	W8-9R	"O" 397+00		60'	RIGHT LANE ENDS	36" x 36"	NB	
55	D1-3	"O" 402+00	60'		See Plan	72"x42"	SB	
56	W4-2-21R	"O" 402+00		6'		36" x 36"	NB	
57	W4-2-21R	"O" 402+00		60'		36" x 36"	NB	
	R5-4	392+50		60'	Pedestrians Prohibited		SB	Change Order #5
	25-3	392+81	58'		Motor Vehicles Only		SB	Under MI-2-7 Change Order #5
	R5-3	395+20		53'	Motor Vehicles Only		NB	Change Order #5
	R5-4	395+40	60'		Pedestrians Prohibited		NB	Change Order #5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	23	28



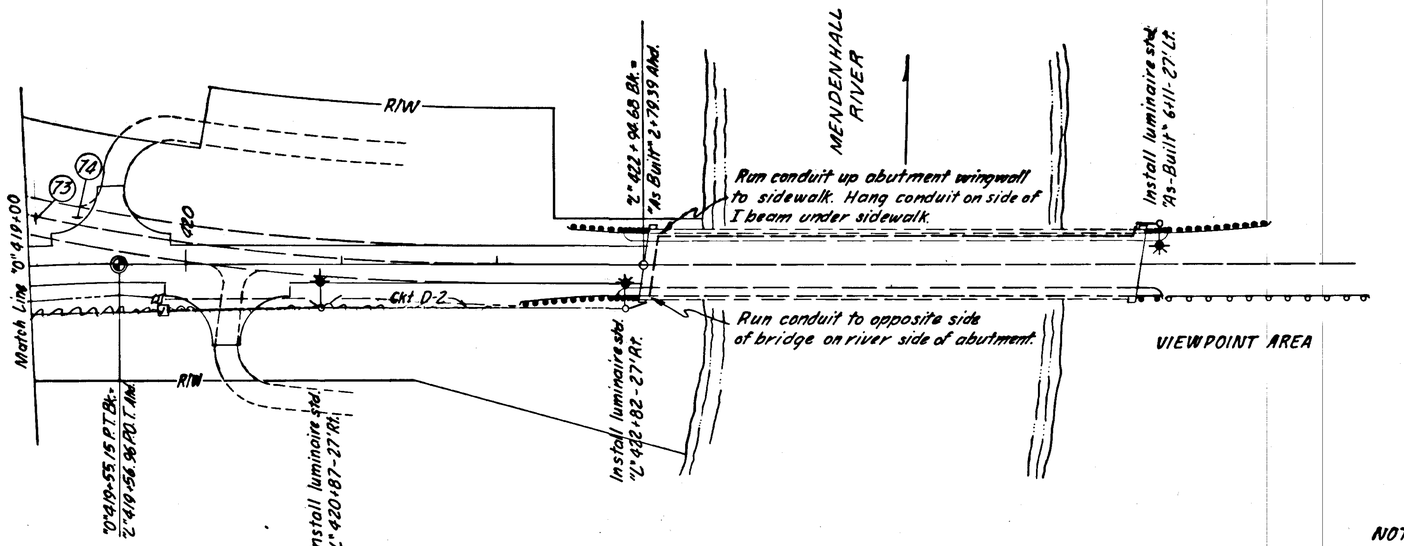
NOTES

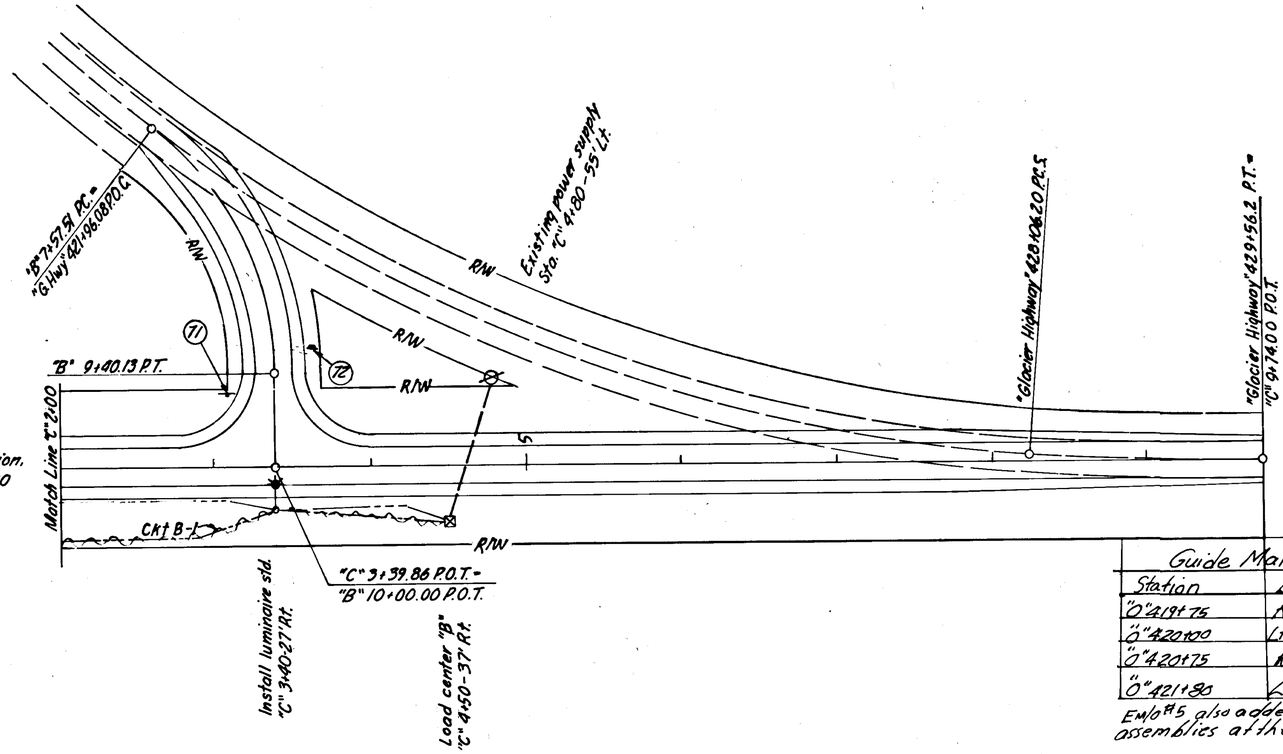
1. Luminaires "D" 404+95, "L" 406+72.4 "L" 408+67 shall be ~~mercury vapor~~ High Pressure Sodium, ~~400 watts~~, H35, 37,000 initial vertical lumens, medium semi cutoff, USASI Type III.
2. Luminaires "L" 410+67, "L" 413+07, "D" 415+97, & "D" 416+97 shall be ~~mercury vapor, 400 watts~~, H35, 37,000 initial vertical lumens, medium semi cutoff, USASI Type II.
3. Luminaire "D" 418+92 shall be ~~mercury vapor, 400 watts~~, H33, 20,500 initial vertical lumens, medium semi cutoff, USASI Type III.
4. Main circuit breaker load center "D" rated 60 amps. Circuit D-1 breaker rated 25 amps. Circuit D-2 breaker rated 25 amps.
5. Wire size circuit D-1 shall be no. 8 AWG. Wire size circuit D-2 shall be no 4. AWG.

Guide Markers EWD #5						NUMBER	CODE	LOCATION	LT.	RT.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
Station	Location	A	B	C	D	(58)	R4-7	"L" 406+25		℄	KEEP RIGHT	24" x 30"	SB	
"D" 404+38	Rt. Shld		/			(58)	W14-6	"L" 406+25		℄	9 Button Reflector	18" x 18"	SB	Under R4-7
"D" 405+56	Rt Shld		/			(60)	W6-3	"L" 406+50		35'	TWO WAY TRAFFIC	36" x 36"	NB	
"D" 406+56	Rt Shld		/			(61)	R1-1	"L" 409+13	45'		STOP	30" x 30"	EB	Side Road
"D" 406+66	Lt Shld		/			(62)	R1-1	"L" 409+32		47'	STOP	30" x 30"	WB	Side Road
"L" 407+56	Rt Shld		/			(63)	W12-2L	"L" 411+50		30'		30" x 30"	NB	
"L" 408+56	Rt Shld				/	(64)	W13-1	G.H. 13+60		30'	15 MPH	30" x 30"	NB	Under W1-2R
"L" 408+56	Lt Shld				/	(65)	M1-2-7	"L" 414+00	30'		Route Marker	24" x 24"	SB	
"L" 410+10	Rt Shld				/	(66)	W3-1	"G.H." 17+60		30'	STOP AHEAD	30" x 30"	NB	
"L" 410+10	Lt Shld				/	(67)	W1-2R	"G.H." 13+60		30'		30" x 30"	NB	Under W3-1
"L" 412+60	Lt Shld	/				(68)	R1-1	"D" 9+55		30'	STOP	30" x 30"	NB	
"L" 413+38	Lt Shld				/	(69)	P3-C	"D" ~~418+92~~ 417+00		30'	SCENIC VIEW POINT	30"x33"x16"	NB	
"D" 415+00	Rt Shld	/				(70)	W6-1	"D" 411+00	30'		DIVIDED HWY.	36" x 36"	SB	
"D" 415+62	Lt Shld				/	(14)	~~W10-1A~~	"D" 8+60	30'		⟶	24" x 12"	NB	
"D" 416+81	Lt Shld				/	(27)	W14-6	"D" 8+60	30'		9 Button Reflector	18" x 18"	NB	Under W10-1A
"D" 417+81	Lt Shld				/		R5-4	"L" 406+50	44'		Right Turn Only		SB	Change Order #5
"D" 418+91	Lt Shld				/									

W1-6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	24	28





NOTES

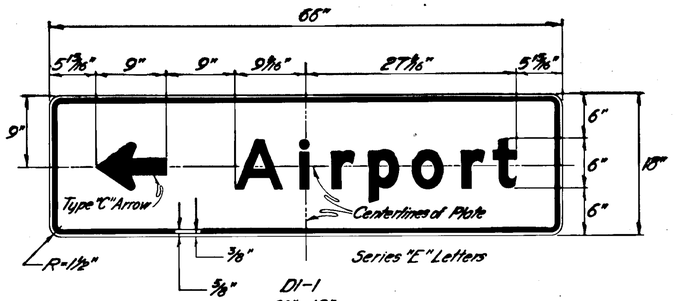
1. Luminaire "C" 3+40 shall be ~~mercury vapor~~ High Pressure Sodium, 400 watt, H33, 20,500 initial vertical lumens, medium semi cut off, USASI Type II 3-way.
2. Luminaires "L" 420+87, "L" 432+82, & "As-Built" 6+11 shall be mercury vapor, 400 watt, H33, 20,500 initial vertical lumens, medium semi cutoff, USASI Type II. High Pressure Sodium
3. Main circuit breaker load center "B" rated 30 amps. Circuit B-1 breaker rated 20 amps.
4. Wire size circuit B-1 shall be no. 8 AWG.
5. There shall be rigid metal conduit between the 2 luminaires on each side of the bridge.

Guide Markers EWO #5						
Station	Location	A	B	C	D	
"D" 419+75	Rt Shld				/	
"D" 420+00	Lt Shld				/	
"D" 420+75	Rt Shld				/	
"D" 421+80	Lt Shld	/				

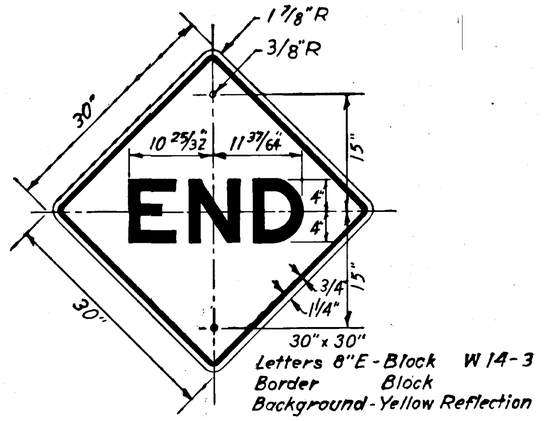
EWO #5 also added 11 guard Rail reflector assemblies at the Brotherhood Bridge

NUMBER	CODE	LOCATION	LT.	RT.	LEGEND	SIZE	FACING TRAFFIC	REMARKS
(71)	R1-1	"B" 9+50		25'	STOP	30"x30"	NB	
(72)	W8-10	"B" 9+25	25'		ROAD ENDS 1200 FT	36"x36"	SB	
(73)	W2-2R	"D" 419+05	30'		┣	30"x30"	SB	
(74)	R1-1	"D" 419+32	30'		STOP	30"x30"	EB	Side Road

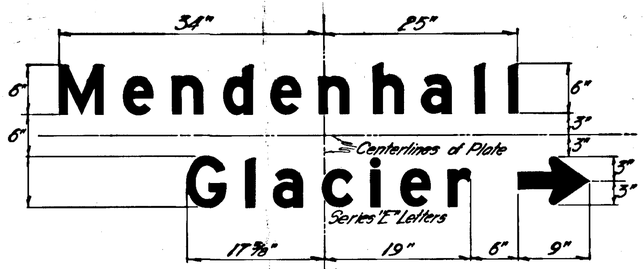
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	25	28



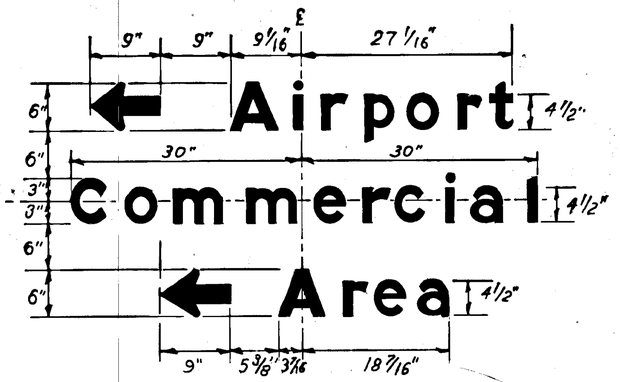
D1-1
66" x 18"
PLATE DETAIL



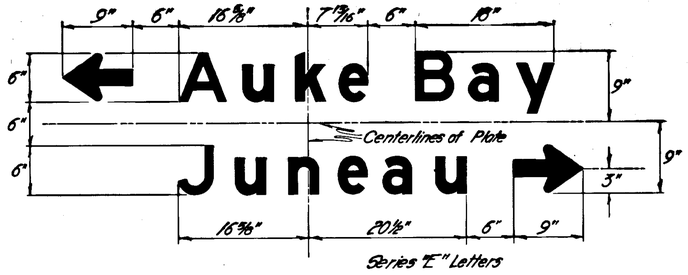
30" x 30"
Letters 8" E-Block W 14-3
Border Block
Background - Yellow Reflection



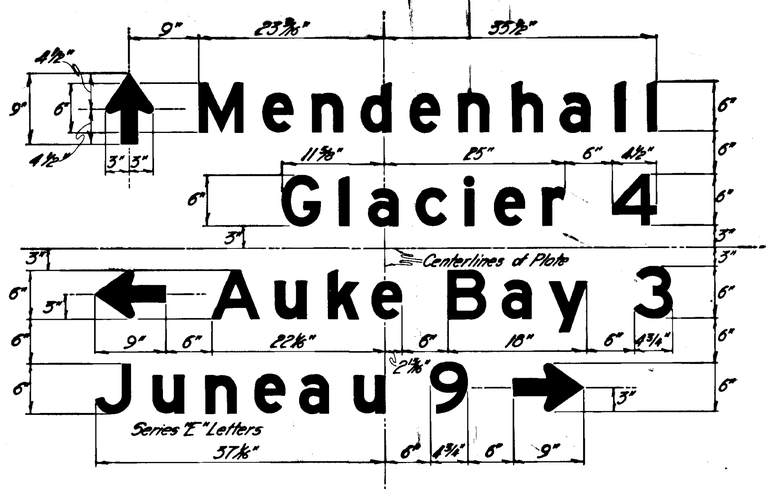
D1-1
78" x 30"



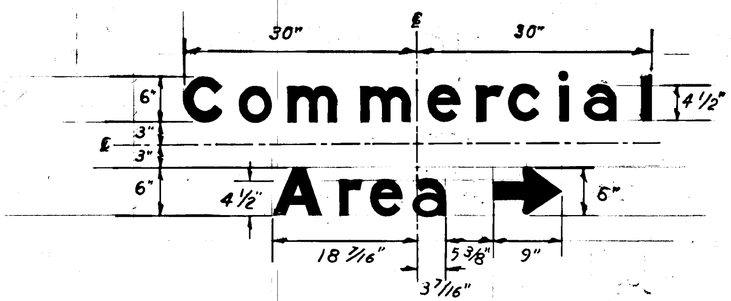
D1-3
72" x 42"



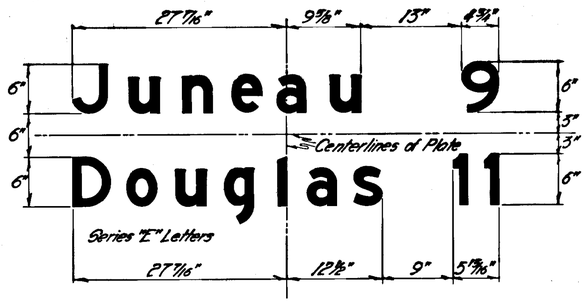
D1-2
78" x 30"



D1-13
84" x 48"



D1-2
72" x 30"



D1-12
66" x 30"

NOTE:
1. All destination signs shall have white reflectorized legend, arrows and border on green reflectorized background.
2. Multiple message signs shall have horizontal 3/8" wide stripe(s) centered between messages.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	26	28

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter		A	i	r	p	o	r	t	
Letter Width	9.00	6.00	1.20	2.94	3.81	3.93	2.94	3.03	
Space Width	9.00	2.13	3.07	1.88	1.75	2.44	1.00		
Cumulative	9.00	18.00	24.00	26.13	27.33	30.40	33.34	35.22	39.03	40.78	44.71	47.15	50.09	51.09	54.12

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter		A	u	k	e	B	a	y	
Letter Width	9.00	6.00	3.84	3.78	3.84	4.78	3.87	4.86	
Space Width	6.00	2.13	3.07	1.75	6.00	2.25	2.25		
Cumulative	9.00	15.00	21.00	23.13	26.97	30.04	33.82	35.57	39.41	45.41	50.19	52.44	56.31	58.56	63.42

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	J	u	n	e	o	u		
Letter Width	4.50	3.84	3.84	3.84	3.87	3.84	9.00	
Space Width	2.88	3.07	2.44	1.88	3.07	6.00		
Cumulative	4.50	7.38	11.22	14.29	18.13	20.57	24.41	26.29	30.16	33.23	37.07	43.07	52.07	

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	J	u	n	e	o	u	g	
Letter Width	4.50	3.84	3.84	3.84	3.87	3.84	4.78	
Space Width	2.88	3.07	2.44	1.88	3.07	13.00		
Cumulative	4.50	7.38	11.22	14.29	18.13	20.57	24.41	26.29	30.16	33.23	37.07	50.07	54.85	

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	D	o	u	g	l	a	s	ll	
Letter Width	4.78	3.93	3.84	3.84	1.20	3.87	3.75	5.91	
Space Width	2.07	2.44	2.44	3.07	2.44	2.25	9.00		
Cumulative	4.78	6.85	10.78	13.22	17.06	19.50	23.34	26.41	27.61	30.05	33.92	36.17	39.92	48.92	54.83

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter		M	e	n	d	e	n	h	a	l	l	
Letter Width	6.00	5.53	3.84	3.84	3.81	3.84	3.84	3.81	3.87	1.20	1.20	
Space Width	6.00	2.75	2.50	2.44	2.44	2.50	3.07	2.44	3.07	3.07		
Cumulative	6.00	12.00	17.53	20.28	24.12	26.62	30.46	32.90	36.71	39.15	42.99	45.49	49.33	52.40	56.21	58.65	62.52	65.59	66.79	69.86	71.06

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	O	l	a	c	i	e	r	A	
Letter Width	4.78	1.20	3.87	3.81	1.20	3.84	2.94	5.53	
Space Width	2.63	2.44	2.44	2.50	2.44	2.50	6.00		
Cumulative	4.78	7.41	8.61	11.05	14.92	17.36	21.17	23.67	24.87	27.31	31.15	33.65	36.59	42.59	48.12

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter		A	u	k	e	B	a	y	3	
Letter Width	9.00	6.00	3.84	3.78	3.84	4.78	3.87	4.86	4.78	
Space Width	6.00	2.13	3.07	1.75	6.00	2.25	2.25	6.00		
Cumulative	9.00	15.00	21.00	23.13	26.97	30.04	33.82	35.57	39.41	45.41	50.19	52.44	56.31	58.56	63.42	69.42	74.20

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	J	u	n	e	o	u	9		
Letter Width	4.50	3.84	3.84	3.84	3.87	3.84	4.78	9.00	
Space Width	2.88	3.07	2.44	1.88	3.07	6.00	6.00		
Cumulative	4.50	7.38	11.22	14.29	18.13	20.57	24.41	26.29	30.16	33.23	37.07	43.07	47.85	53.85	62.85

6" Series "E" Upper Case — 4½" Series "E" Lower Case

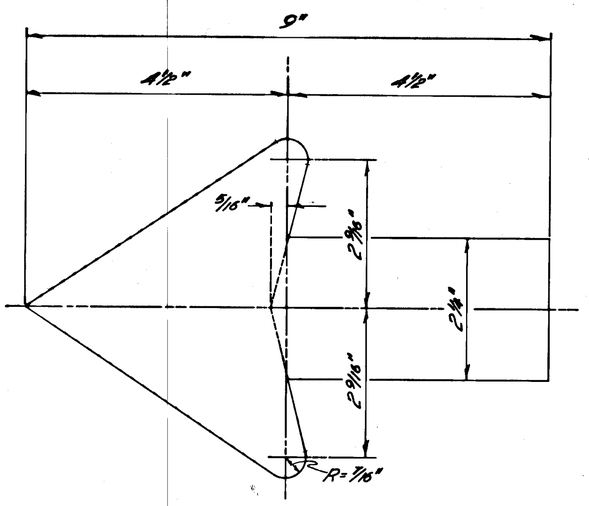
Letter	M	e	n	d	e	n	h	a	l	l	
Letter Width	5.53	3.84	3.84	3.81	3.84	3.84	3.81	3.87	1.20	1.20	
Space Width	2.75	2.50	2.44	2.44	2.50	3.07	2.44	3.07	3.07		
Cumulative	5.53	8.28	12.12	14.62	18.46	20.90	24.71	27.15	30.99	33.49	37.33	40.40	44.21	48.65	50.52	53.59	54.79	57.86	59.06

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter	G	l	o	c	i	e	r		
Letter Width	4.78	1.20	3.87	3.81	1.20	3.84	2.94	9.00	
Space Width	2.63	2.44	2.44	2.50	2.44	2.50	6.00		
Cumulative	4.78	7.41	8.61	11.05	14.92	17.36	21.17	23.67	24.87	27.31	31.15	33.65	36.59	42.59	51.59

6" Series "E" Upper Case — 4½" Series "E" Lower Case

Letter		A	i	r	p	o	r	t	l	
Letter Width	6.00	6.00	1.20	2.94	3.81	3.93	2.94	3.03	1.78	
Space Width	6.00	2.13	3.07	1.88	1.75	2.44	1.00	24.30		
Cumulative	6.00	12.00	18.00	20.13	21.33	24.40	27.34	29.22	33.03	34.78	38.71	41.15	44.09	45.09	48.12	72.42	74.20



DETAIL OF
TYPE "C" ARROW

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	27	28

6" Series "E" Upper Case / 4½" Series "E" Lower Case

Letter	←	J	u	n	e	a	u	9									
Letter Width	9.00	4.50	3.84	3.84	3.84	3.87	3.84	4.78									
Space Width		6.00	2.88	3.07	2.44	1.88	3.07	17.35									
Cumulative	9.00	15.00	19.50	22.38	26.22	29.29	33.13	35.57	39.41	41.29	45.16	48.23	52.07	69.42	74.20		

6" Series "E" Upper Case / 4½" Series "E" Lower Case

Letter	A	u	k	e	B	o	u	3	→								
Letter Width	6.00	3.84	3.78	3.84	4.78	3.87	4.86	4.78	9.00								
Space Width		2.13	3.07	1.75	6.00	2.25	2.25	6.00	6.00								
Cumulative	6.00	8.13	11.97	15.04	18.82	20.57	24.41	30.41	35.19	37.44	41.31	43.56	48.42	54.42	59.20	65.20	74.20

6" Series "E" Upper Case / 4½" Series "E" Lower Case

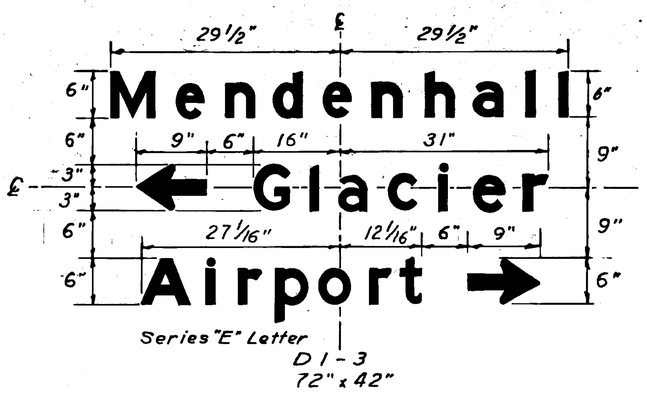
Letter	M	e	n	d	e	n	h	a	l	l							
Letter Width	5.53	3.84	3.84	3.81	3.84	3.84	3.81	3.87	1.20	3.07							
Space Width		2.75	2.50	2.44	2.44	2.50	3.07	2.44	3.07	3.07							
Cumulative	5.53	8.28	12.12	14.62	18.46	20.90	24.71	27.15	30.99	33.49	37.33	40.40	44.21	46.69	50.52	53.59	54.79	57.86	59.06

6" Series "E" Upper Case / 4½" Series "E" Lower Case

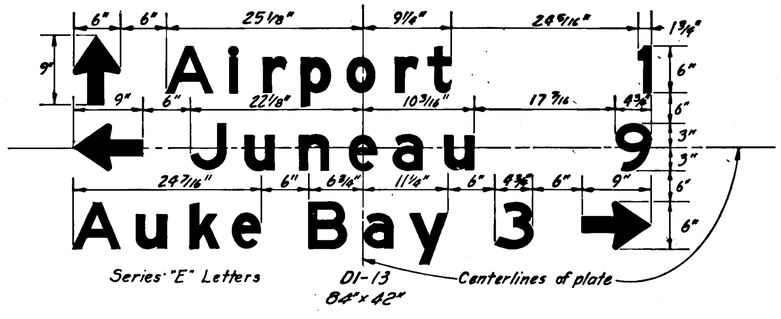
Letter	←	G	l	a	c	i	e	r									
Letter Width	9.00	4.78	1.20	3.87	3.81	1.20	3.84	2.94									
Space Width		6.00	2.63	2.44	2.44	2.50	2.44	2.50									
Cumulative	9.00	15.00	19.78	22.41	23.61	26.05	29.52	32.36	36.17	38.67	39.87	42.31	46.15	48.65	51.59		

6" Series "E" Upper Case / 4½" Series "E" Lower Case

Letter	C	o	m	m	e	r	c	i	a	l							
Letter Width	4.78	3.93	6.36	6.36	3.84	2.94	3.81	1.20	3.87	1.20							
Space Width		2.13	2.44	3.07	2.44	2.50	1.19	2.50	2.44	3.07							
Cumulative	4.78	6.91	10.84	13.28	19.64	22.71	29.07	31.51	35.35	37.85	40.79	41.98	45.79	48.29	49.49	51.93	55.80	58.87	60.07



Series "E" Letter
D1-3
72" x 42"



Series "E" Letters
D1-13
84" x 42"
Centerlines of plate

6" Series "E" Upper Case / 4½" Series "E" Lower Case

Letter	A	r	e	a	→												
Letter Width	6.00	2.94	3.84	3.87	9.00												
Space Width		2.13	1.19	1.88	6.00												
Cumulative	6.00	8.13	11.07	12.26	16.10	17.98	21.85	27.85	36.85								

5" Series "C" Upper Case

Letter	R	I	G	H	T												
Letter Width	2.73	0.70	2.73	2.73	2.50												
Space Width		1.05	1.05	1.05	0.84												
Cumulative	2.73	3.78	4.48	5.53	8.26	9.31	12.04	12.88	15.38								

5" Series "C" Upper Case

Letter	L	A	N	E	E	N	D	S									
Letter Width	2.50	3.12	2.73	2.50	2.50	2.73	2.73	2.73									
Space Width		0.28	0.84	1.05	1.50	0.84	1.05	0.84									
Cumulative	2.50	2.78	5.90	6.74	9.47	10.52	13.02	20.52	23.02	23.86	26.59	27.64	30.37	31.21	33.94		

5" Series "C" Upper Case

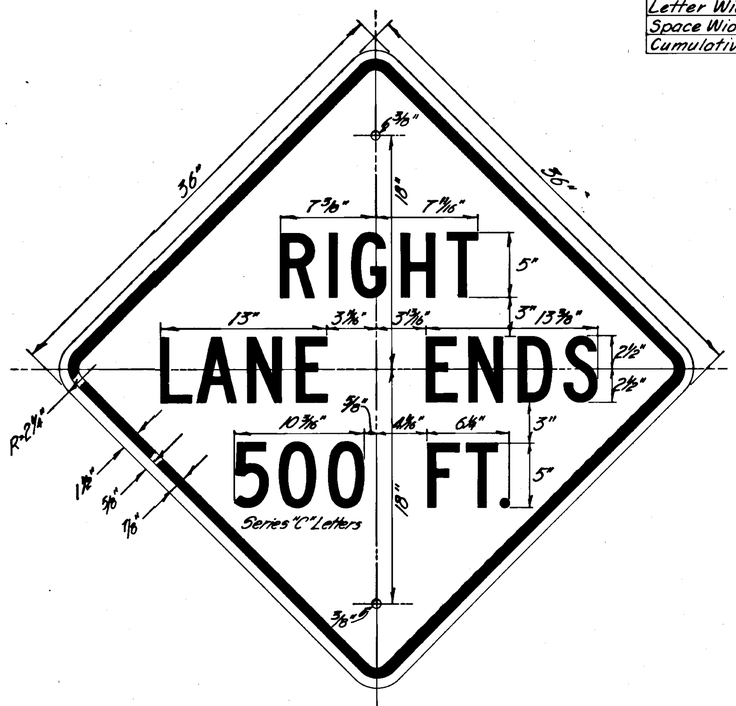
Letter	5	0	0	F	T	•											
Letter Width	2.73	2.89	2.89	2.50	2.50	0.70											
Space Width		0.84	0.84	4.84	0.56	0.00											
Cumulative	2.73	3.57	6.46	7.30	10.19	15.03	17.53	18.09	20.59	20.59	21.29						

5" Series "D" Upper case

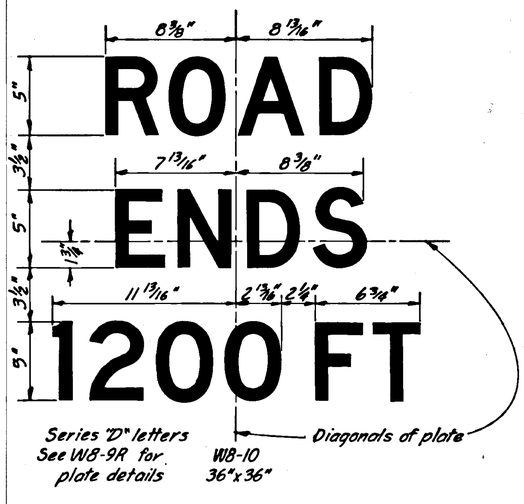
Letter	R	O	A	D			E	N	D	S							
Letter Width	3.36	3.50	4.19	3.36			3.05	3.36	3.36	3.36							
Space Width		.94	.94	.94			.94	1.17	3.36	.94							
Cumulative	3.36	4.30	7.80	8.74	12.93	13.87	17.23				3.05	3.99	7.35	8.52	11.88	12.82	16.18

5" Series "D" Upper case

Letter	I	2	O	O	F	T											
Letter Width	1.20	3.36	3.50	3.50	3.05	3.05											
Space Width		1.17	.94	.94	2.25	.62											
Cumulative	1.20	2.37	5.73	6.67	10.17	11.11	14.61	16.85	19.91	20.53	23.58						



W8-9R
36" x 36"
Black legend and border on yellow reflectorized background.

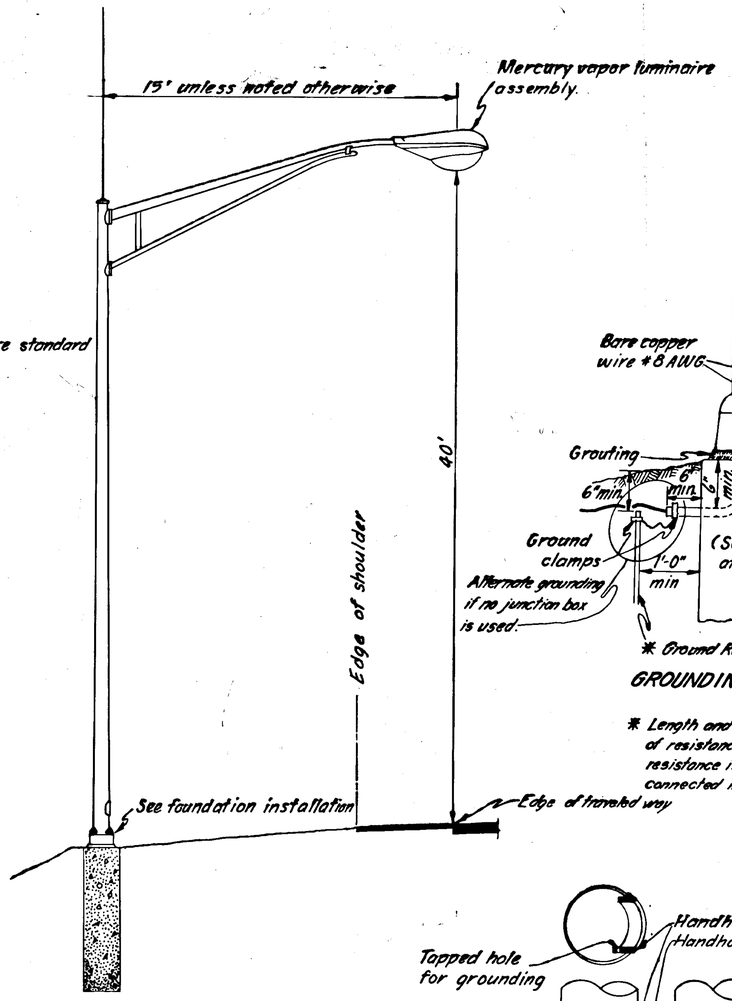


Series "D" letters
See W8-9R for plate details

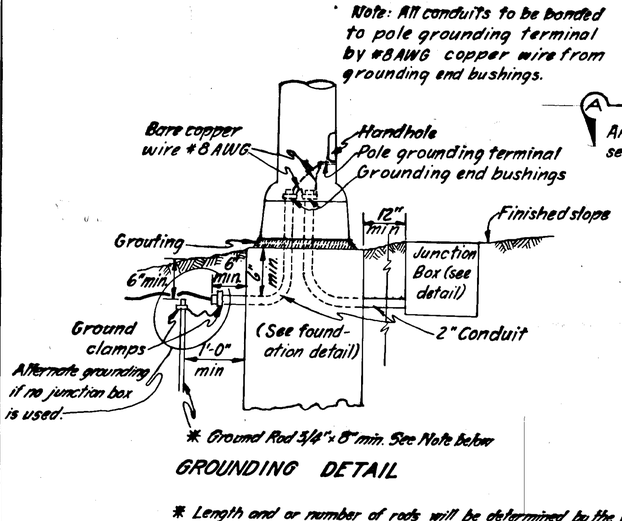
W8-10
36" x 36"

Diagonals of plate

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-8(7)	1970	28	28

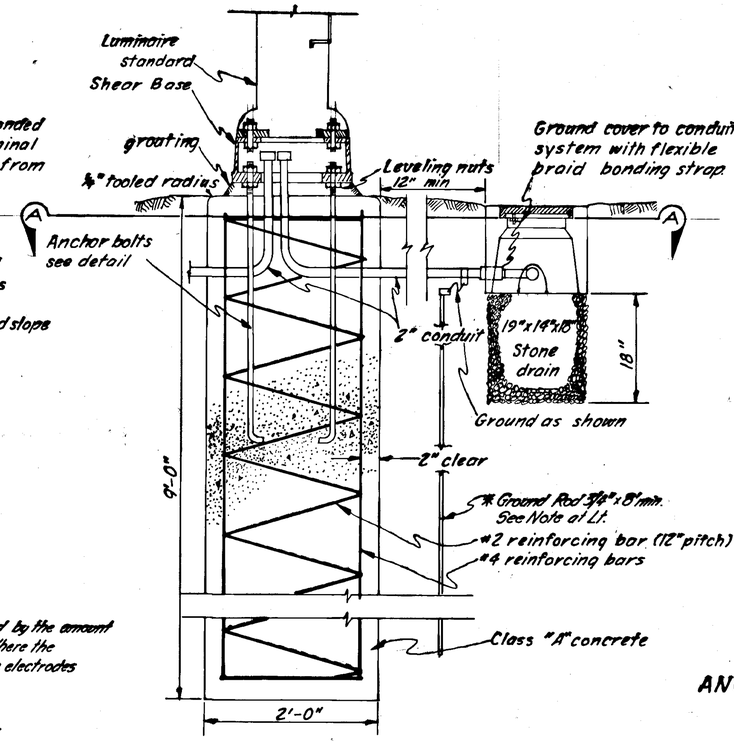


LUMINAIRE STANDARD INSTALLATION

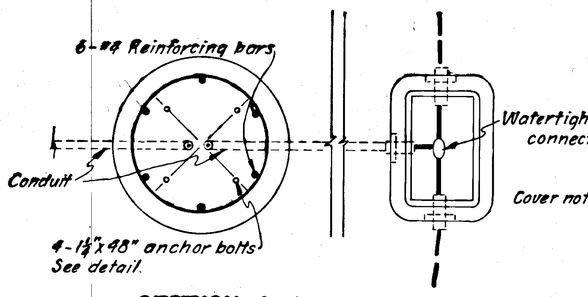


GROUNDING DETAIL

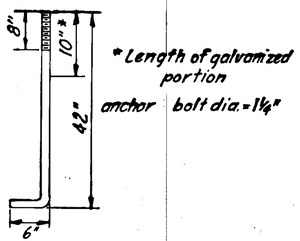
* Length and or number of rods will be determined by the amount of resistance to ground not exceeding 25 ohms. Where the resistance is not as low as 25 ohms, two or more electrodes connected in parallel shall be used.



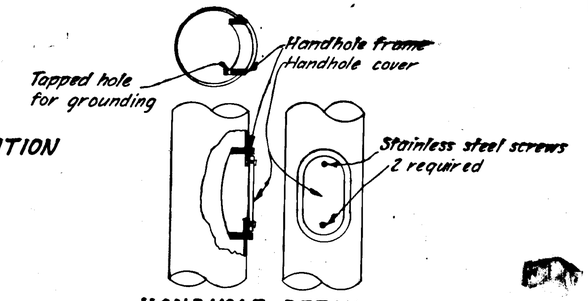
FOUNDATION & JUNCTION BOX INSTALLATION



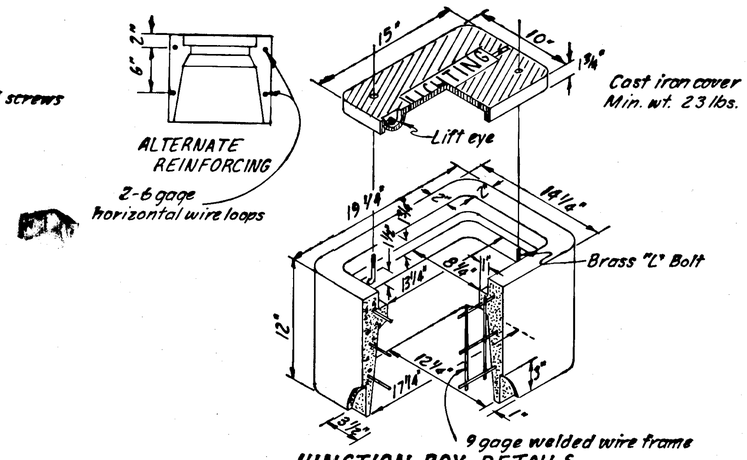
SECTION A-A



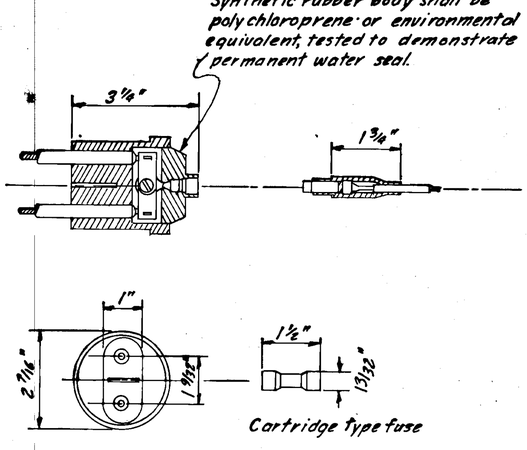
ANCHOR BOLT DETAIL



HANDHOLE DETAIL



JUNCTION BOX DETAILS



FUSE CONNECTOR ASSEMBLY