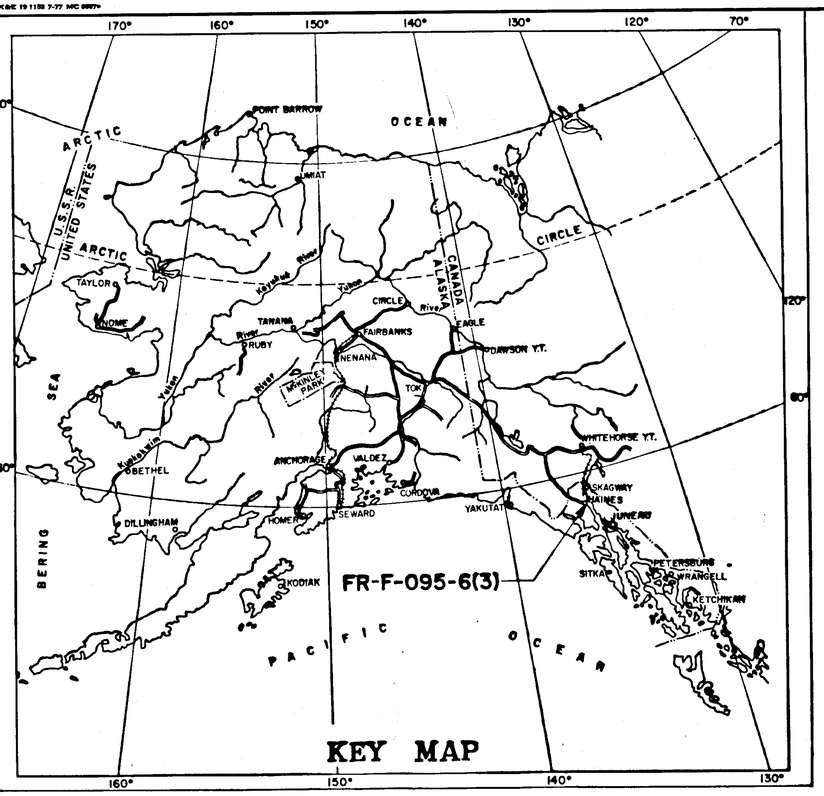
STATE	PROJECT	SHEET NO.	TOT. SHEE
ALASKA	FR-F-095-6(3)	1	14

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
FR-F-095-6(3)
HAINES M.P. 4 TO M.P. 14
GRADING, PAVING, & DRAINAGE

NOTE: Equations are shown on the plan & profile sheets

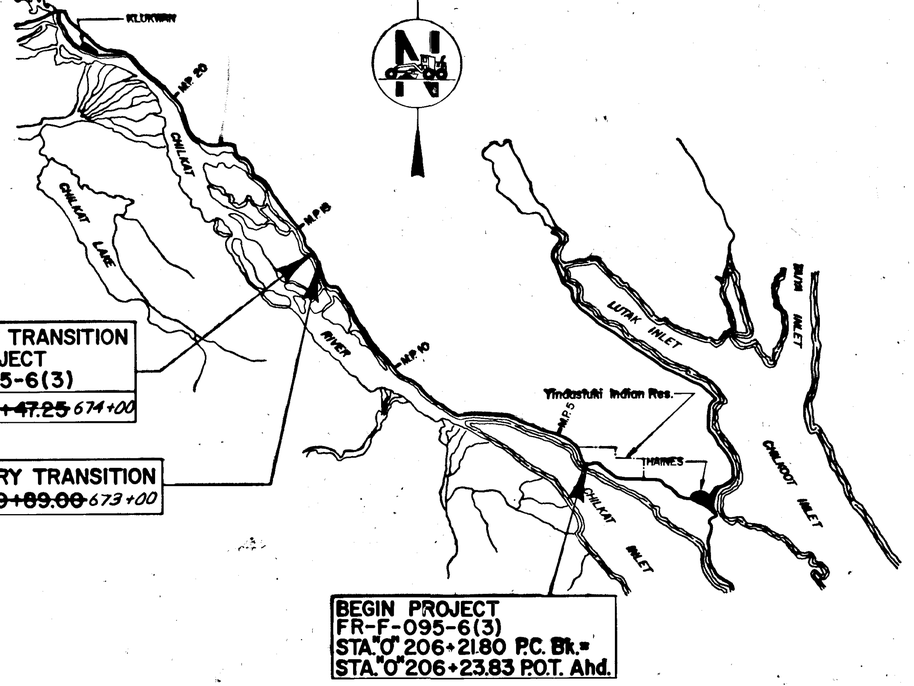


PROJECT SUMMARY

WIDTH OF PAVEMENT	=	28'
LENGTH OF PAVING	=	~~53,476.14'~~ = ~~10.128~~ mi.
LENGTH OF PROJECT	=	~~53,476.14'~~ = ~~10.128~~ mi

DESIGN DESIGNATION

ADT (1979)	=	450
ADT (1999)	=	2,300
DHV (13%)	=	300
D	=	60-40
T	=	9%
V	=	50



END TEMPORARY TRANSITION AND PROJECT FR-F-095-6(3)
STA. "L" ~~741+47.25~~ 674+00

BEGIN TEMPORARY TRANSITION
STA. "L" ~~739+89.00~~ 673+00

BEGIN PROJECT
FR-F-095-6(3)
STA. "O" 206+21.80 P.C. Bk. =
STA. "O" 206+23.83 P.O.T. Ahd.

INDEX OF SHEETS	
1	TITLE SHEET
2	TYPICAL SECTIONS
3	ESTIMATE OF QUANTITIES, SUMMARY TABLES
4	SIGNING SCHEDULE, MISC. DETAILS
5	STATE FURNISHED MATERIALS SITE
6 - 14	PLAN SHEETS

THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT: A-1, C-00.04, C-10.03, C-11.03, D-02.02, D-06.10, G-04.13, G-04.32, G-13.12, G-14.04, G-18.00, I-80.00, M-16.03, S-00.11, S-05.00, S-20.10, S-30.11, T-21.02, and I-40.10.

AS BUILT PLANS

Contractor: Associated Sand and Gravel Inc.

Project Engineer: Larry Geise

Beginning Date: 7-12-79
Completion Date: 6-10-80

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED

Walter R. Williams Date 2/11/79
SOUTHEASTERN REGION
DESIGN/CONSTRUCTION ENGINEER

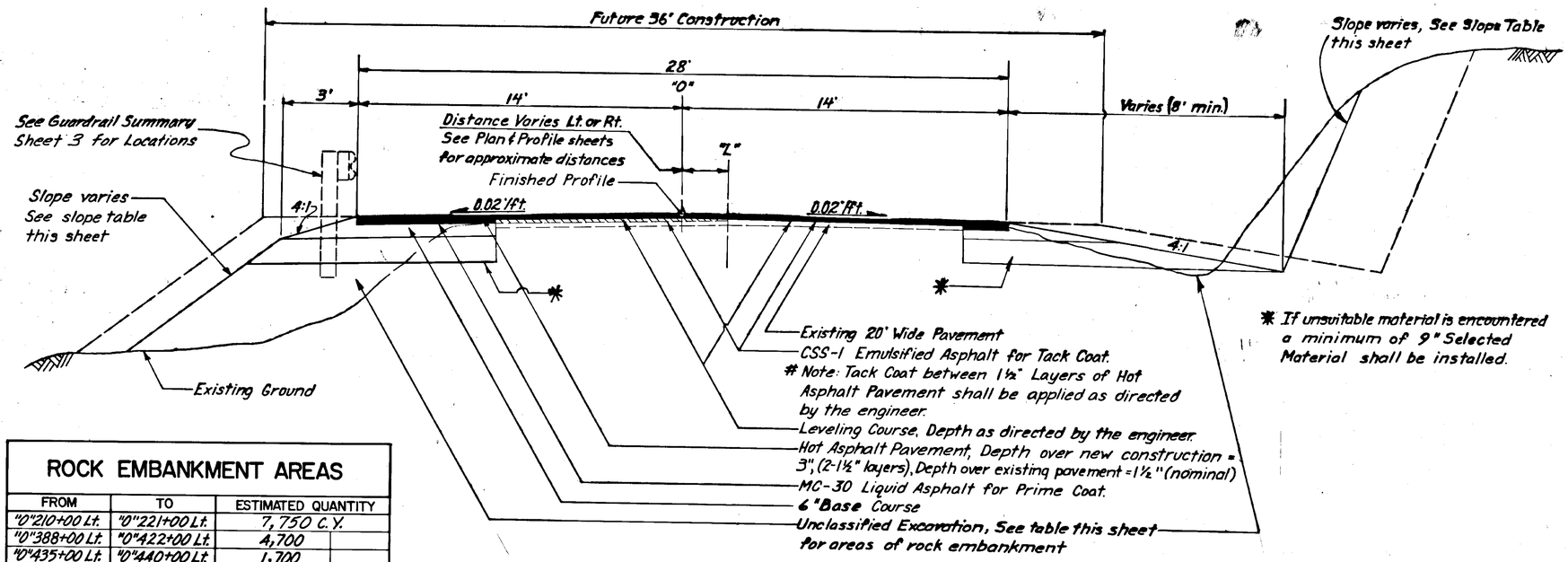
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED

Date 4-19-7
DIRECTOR-HIGHWAY DESIGN & CONSTRUCTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	2	14

TYPICAL SECTIONS OF IMPROVEMENT



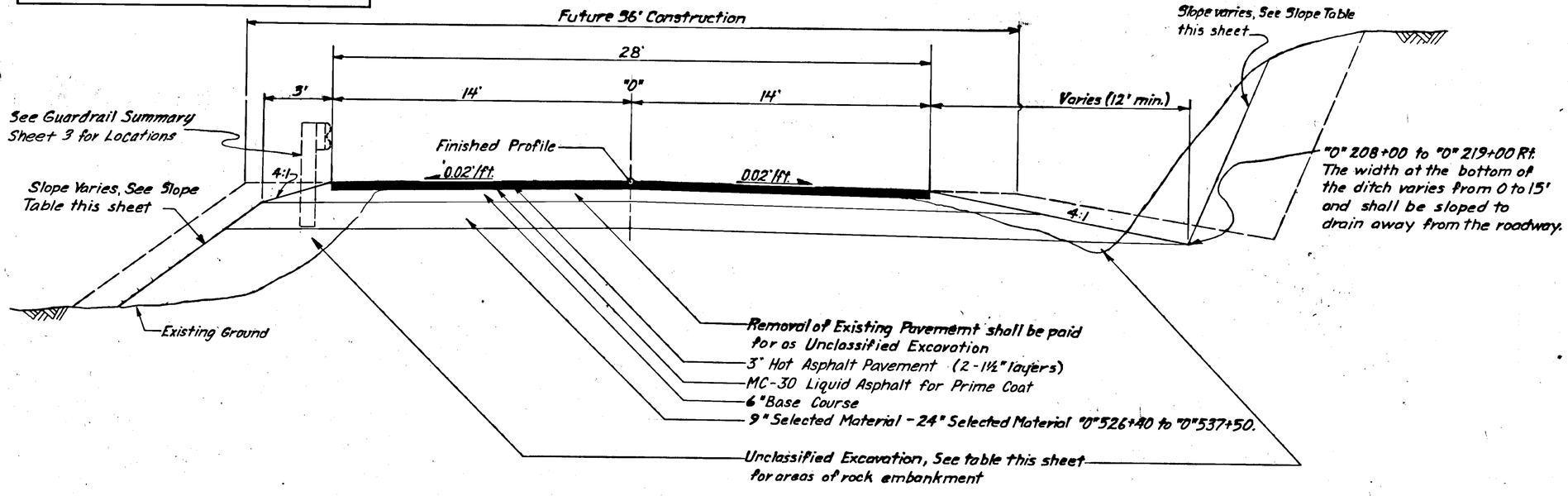
TYPICAL A

(For Areas, See Application table this sheet)

ROCK EMBANKMENT AREAS

FROM	TO	ESTIMATED QUANTITY
"0" 210+00 Lt.	"0" 221+00 Lt.	7,750 C.Y.
"0" 388+00 Lt.	"0" 422+00 Lt.	4,700
"0" 435+00 Lt.	"0" 440+00 Lt.	1,700
"0" 473+00 Lt.	"0" 476+00 Lt.	200
"0" 592+00 Lt.	"0" 596+00 Lt.	150
"0" 610+00 Lt.	"0" 613+00 Lt.	100
"0" 663+00 Lt.	"0" 672+00 Lt.	2,600
"0" 690+00 Lt.	"0" 730+00 Lt.	4,700

NOTE: Rock Embankment to be placed in the above areas shall consist only of shot rock.



TYPICAL B

(For Areas, See Application table this sheet)

TYPICAL SECTION APPLICATION TABLE

TYPICAL A		TYPICAL B		REMARKS
FROM	TO	FROM	TO	
"0" 206+23	"0" 208+00			
		"0" 208+00	"L" 230+00	
"L" 230+00	"0" 286+25			
"0" 286+25	"0" 346+89			See Note Below
"0" 346+89	"0" 385+00			
		"0" 385+00	"0" 396+50	
"0" 396+50	"0" 422+00			See Note Below
		"0" 422+00	"0" 427+50	
"0" 427+50	"0" 435+20			See Note Below
		"0" 435+20	"0" 438+54	
"0" 438+54	"0" 452+12			See Note Below
"0" 452+12	"0" 473+00			
		"0" 473+00	"0" 482+00	
"0" 482+00	"0" 526+40			
		"0" 526+40	"0" 537+50	
"0" 537+50	"0" 616+52			See Note Below
"0" 616+52	"L" 641+69			
"0" 641+69	"0" 651+54			See Note Below
"0" 651+54	"0" 657+00			
		"0" 657+00	"0" 671+30	
"0" 671+30	"L" 685+94			
"L" 685+94	"0" 694+73			See Note Below
"0" 694+73	"L" 699+40			See Note Below
"0" 699+40	"0" 729+09			
"0" 729+09	"0" 741+47			

NOTE: The only new slope work intended on the Right shall be, regrading of the fore slope and the flow line of the existing ditch.

SLOPE TABLE

FILL		CUT	
HEIGHT OF FILL	SLOPE	HEIGHT OF CUT	SLOPE
0-5'	4:1	All Slopes in Solid Rock	¼:1
5-10'	2:1		
10' and over	1½:1	All Others	2:1
All Rock Embankment Slopes	1½:1		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	3	14

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	Furnishing and Maintaining Engineering Facilities	L. S.	All Req'd
110(1)	Mobilization	L. S.	All Req'd
111(1)	Temporary Erosion and Pollution Control	C. S.	All Req'd
115(1)	Traffic Maintenance	L. S.	All Req'd
201(3B)	Clearing and Grubbing	L. S.	All Req'd
204(4)	Removal and Disposal of Culvert Pipe	L.F.	3,736
203(3)	Unclassified Excavation	C.Y.	48,828
301(1)	Crushed Aggregate Base Course	Ton	29,557
114(1)	Construction Engineering by Contractor	L. S.	All Req'd.
401(1)	Hot Asphalt Pavement, Class I	Ton	26,062
401(2)	AC-5 Asphalt Cement	Ton	1,573.7
401(4)	Anti-Stripping Additive	C. S.	All Req'd
402(3)	CSS-1 Emulsified Asphalt for Tack Coat	L. S.	All Req'd
403(1)	MC-30 Liquid Asphalt for Prime Coat	Ton	63.1
603(22G)	24" Pipe Conduit	L.F.	3,030
603(22I)	36" Pipe Conduit	L.F.	428
603(22K)	48" Pipe Conduit	L.F.	130
603(28K)	End Section for 48" Pipe Conduit	Ea.	4
606(1)	Beam Type Guardrail, Type I Post	L.F.	6,975
606(3)	Removal and Reconstruction of Guardrail	L.F.	~~3,375~~
614(1)	Survey Monuments	Ea.	~~71~~
614(7)	Monument Cases	Ea.	~~71~~
615(1)	Standard Sign	S.F.	545.76
627(1)	Watering	M Gal.	800
670(1)	Painted Traffic Markings	L. S.	All Req'd

BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
301 (1)	1.96 Tons per Cu. Yd.
401 (1)	118 lbs. per S.Y./ Inch Depth
402(3)*≠	0.08 Gal. per S.Y. ~~240~~ Gals. per Ton @60°F
403 (1)	0.25 Gal. per S.Y. ~~256~~ Gals. per Ton @60°F

*Estimated Quantity - 90 Tons
≠ (of diluted mixture)

APPROACH SUMMARY

STATION	LEFT	RIGHT	WIDTH
"L" 279+00		X	24'
"O" 317+54	X		24'
"O" 318+00		X	20'
"O" 319+10	X		24'
"O" 341+90		X	14'
"L" 367+90		X	24'
"O" 391+30		X	14'
"O" 400+40		X	20'
"O" 418+15		X	14'
"O" 418+75		X	14'
"O" 445+27		X	14'
"L" 491+40		X	14'
"O" 539+60		X	30'
"O" 541+10		X	30'
"O" 581+80	X		30'
"O" 587+90	X		24'
"O" 620+00		X	14'
"O" 238+55		X	24'
"O" 230+00	X		14'
"O" 258+00		X	14"

See Standard Drawing I-40.10 for more details.

GUARDRAIL SUMMARY

FROM STATION	TO STATION	OFFSET Lt.	OFFSET Rt.	REMOVE & DISPOSE	Reconstruct	INSTALL	REMARKS
209+25	220+50	X				X	
285+00	289+00	X				X	
301+00	312+00	X				X	
319+00	325+25	X				X	
372+00	414+50	X				X	
418+00	494+00	X				X	
501+00	508+00		X	X			Existing Posts are Wood
513+50	521+50				X		Existing Posts are Wood
581+00	589+75	X				X	
608+75	614+25	X				X	
630+00	650+00	X				X	
658+00	673+50	X				X	
		X			X		Existing Posts are Wood
		X				X	
		X			X		Existing Posts are Wood

1. Removal and Disposal of guardrail shall be considered incidental to item 606(1) Beam Type Guardrail, Type I Post, and no seperate payment will be made therefor.
2. "O" 690+75 to "O" 730+75 no steel posts shall be used in the installations. No terminal posts or end section shall be required in this section.
3. Guardrail lengths and locations are approximate only and are subject to minor revisions.

MONUMENTS & CASES

STATION	LOCATION	POINT
"O" 207+10.36	CL	P.C.
"O" 215+36.44	CL	P.T.
"O" 218+05.58	CL	P.C.
"O" 227+34.81	CL	P.T.*
"O" 227+35.13		P.O.T.
"L" 238+47.54	CL	P.C.
"L" 244+88.33	CL	P.T.
"L" 261+56.56	7.78' Rt	P.I.
"L" 286+25.10 Bk= "O" 286+25.10 Ahd	CL	P.O.T P.C.
"O" 292+96.32	CL	P.T.
"O" 303+29.72	1.75' Lt	P.I.
"O" 321+79.85	.80' Rt	P.I.
~~"O" 330+05.18~~	~~11.29' Lt~~	~~P.T.~~
"O" 341+97.23	CL	P.C.
"O" 346+86.80 Bk= "L" 346+78.32 Ahd	CL	P.T. P.O.T
"L" & "O" 380+39.70	6.81' Lt	P.I.
"O" 389+70.50	12.21' Rt	P.I.
"O" 400+59.22	1.27 Lt	P.I.
"O" 407+18.35	3.56' Rt	P.I.
"O" 416+82.40	CL	P.C.
"O" 422+75.75	CL	P.T.
"O" 433+61.26	4.92' Lt	P.I.
"O" 436+62.01	CL	P.C.
"O" 439+66.18	CL	P.T.
"O" 448+16.17	CL	P.C.
"O" 451+94.49	CL	P.T.
"O" 454+97.15	CL	P.C.
"O" 458+78.37 Bk= "O" 458+88.64 Ahd	CL	P.T. P.O.T.
"L" 462+05.78	2.25' Lt	P.I.
"L" 465+64.52	4.10' Lt	P.I.
~~"L" & "O" 471+11.81~~	~~10.27' Lt~~	~~P.I.~~
"O" 484+65.63	6.71' Lt	P.I.
"L" 501+84.91	2.10' Lt	P.I.
"L" 504+74.57 Bk= "O" 504+74.57 Ahd	CL	P.O.T P.C.
"O" 507+81.53 Bk= "L" 507+82.16 Ahd	CL	P.T. P.O.T
"L" 512+62.84 Bk= "O" 512+62.84 Ahd	CL	P.O.T. P.C.
"O" 515+91.71 Bk "L" 515+92.38 Ahd	CL	P.T. P.O.T.
"O" & "L" 518+81.00	6.84' Rt	P.I.
"L" 525+24.41 Bk= "O" 525+24.41 Ahd	CL	P.O.T. P.C.
"O" 532+48.89	CL	P.T.
"O" 534+87.66	CL	P.C.
"O" 538+40.12	CL	P.T.
"O" 542+35.74	9.83' Rt	P.I.
"O" 546+28.52	CL	P.C.
"O" 553+36.10 Bk= "O" 553+36.07 Ahd	CL	P.T. P.O.T.
"O" 563+15.64	2.07' Rt	P.I.
"O" 571+83.37	3.76' Rt	P.I.
"O" 576+37.92	7.84' Lt	P.I.
"O" 583+03.67	5.83' Lt	P.I.
"O" 594+40.06	8.66' Rt	P.I.
"O" 605+75.41	CL	P.C.
"O" 616+51.94 Bk= "L" 616+80.67 Ahd	CL	P.T. P.C.
"L" 629+49.73	6.40' Lt	P.I.
"L" 636+94.05	13.70' Rt	P.I.
"L" 641+68.51 Bk= "O" 641+68.51 Ahd	CL	P.O.T. P.C.
"O" 651+54.02 Bk= "L" 651+55.11 Ahd	CL	P.T. P.C.
"O" 657+25.95	CL	P.T.
"O" 661+77.78	CL	P.C.
"O" 672+78.91 Bk= "L" 673+05.17 Ahd	CL	P.T. P.O.T.
~~"L" 676+73.10~~	~~CL~~	~~P.C.~~
~~"L" 684+17.92~~	~~CL~~	~~P.T.~~
~~"L" 685+93.67 Bk= "O" 685+93.67 Ahd~~	~~CL~~	~~P.O.T. P.C.~~
~~"O" 694+72.74 Bk= "L" 694+72.29 Ahd~~	~~CL~~	~~P.T. P.O.T.~~
~~"O" 701+00.66~~	~~4.50' Lt~~	~~P.I.~~
~~"O" 703+26.59~~	~~CL~~	~~P.C.~~
~~"O" 707+96.02~~	~~CL~~	~~P.T.~~
~~"O" 712+35.52~~	~~CL~~	~~P.C.~~
~~"O" 717+33.31~~	~~CL~~	~~P.T.~~
~~"O" 723+76.42~~	~~CL~~	~~P.C.~~
~~"O" 729+09.39 Bk= "L" 729+10.47 Ahd~~	~~CL~~	~~P.T. P.O.T.~~
~~"L" 733+12.13~~	~~CL~~	~~P.C.~~
~~"L" 741+47.25~~	~~CL~~	~~P.T.~~

GENERAL NOTES

1. Those sections of the typical sections shown for Future Construction are not part of this contract.
2. Alignment as shown on these plans is subject to minor revisions.
3. Stationing with "L" designation refers to the alignment as staked in the field. Stationing with "O" designation refers to a designed alignment.
4. Sections of the existing roadway which are to be abandoned, shall be obliterated and graded to drain as directed by the engineer. All material removed from these sections shall be utilized on the project unless otherwise directed by the engineer.
5. The proposed finished profile shall match the existing profile as close as possible, actual finished profile elevations for ℄ shall be as provided by the engineer.
6. In all areas utilizing typical section B, the superelevation shall be in accordance with standard drawing I-80.00, case II, Table 2, e=0.060. In all other areas of work, the superelevation shall be dictated by the existing superelevation rate or as directed by the engineer.
7. Clearing and Grubbing limits shall be 10' beyond slope limits in cut areas and 5' beyond slope limits in fill areas, or to the R.O.W., whichever is less.
8. Culvert lengths and locations are approximate only, and are subject to minor revisions.
9. All waste material shall be disposed of out side the R/W limits shown on the plans.
10. The removal of existing pavement shown herein shall be paid for as unclassified excavation. All cuts made in existing pavement shall be made in a neat workmanship manner.
11. Benching or "Keying In" shall be required in the placement of all rock embankment where the slope of the existing embankment warrants such work.
12. The location of the 8" pipeline as shown on the plans is approximate and it shall be the contractors responsibility to locate it prior to any work which may result in damage to the utility. With the exception of the following areas the contractor shall repair all damage to the pipeline at his own expense.
    Areas estimated for pipeline removal:
    Station "O" 659+00 to "O" 665+00
    Areas estimated for pipeline abandonment:
    Station "O" 216+50 to "O" 228+00
    Station "O" 422+00 to "O" 430+00
    Station "O" 526+00 to "O" 533+00
    Following the slope staking of the above areas the engineer will designate specific locations at which the pipeline shall be cut and the section of pipeline remaining will be capped. It is anticipated that only one cut and cap will be required at the beginning and end of each of the areas listed above. Caps shall consist of ¼" steel plate, Welded all the way around, to the ends of the pipe and painted with 2 coats of approved rust resistant paint. All work shall be subject to the approval of the engineer.
    Disposal of sections of pipeline designated for removal shall be paid for as Removal & Disposal of Culvert Pipe.
    No direct payment will be made for any work associated with the cutting and capping of various sections of the 8" pipeline as it will be considered incidental to Item 202(2) Removal & Disposal of Culvert Pipe.
13. The location of the buried telephone cable as shown on the plans is approximate and it shall be the contractors responsibility to locate it prior to any work which may result in damage to the utility. Help in locating the cable may be obtained from the manager of the "General Telephone Co. of Alaska" in Haines. The contractor shall have all damages to the cable repaired by the General Telephone Co. of Alaska, at his expense.
    After clearing, grubbing, and slope staking of the following areas is completed the telephone company shall relocate the cable outside the construction zone at no expense to the contractor.
    Station "O" 221+00 to Station "O" 228+00
    Station "O" 422+00 to Station "O" 430+00
    Station "O" 526+00 to Station "O" 533+00
    Station "O" 659+00 to Station "O" 665+00
14. Painted traffic markings shall be applied in accordance with Alaska Traffic Manual, Standard Drawing T-21.02, and as directed by the engineer. See the unpaved shoulder or no shoulder portion of the standard T-21.02 drawing for color and width of strips. The shoulder strips shall be 12" either side of the centerline and no passing zones are estimated to be 30 percent of the project length.

CULVERT PIPE INSTALLATION

STATION	SIZE	LENGTH	HEIGHT OF COVER
* "O" 212+~~58~~ 58	24"	~~72~~ 70	8'
* "O" 219+~~14~~ 08	24"	~~66~~ 74	6'
* "O" 235+~~51~~ 52	24"	~~58~~ 60	4'
* "O" 23?+~~49~~ 51	24"	~~58~~ 60	4'
≠ "O" 246+~~01~~ 02	48"	66'	3'
* "L" 252+~~53~~ 55	24"	~~70~~ 60	3'
"L" 263+~~91~~ 93	24"	~~76~~ 60	4'
"L" 268+~~80~~ 73	36"	~~52~~ 60	4'
"L" 272+00	24"	~~56~~ 58	4'
"O" 316+~~80~~ 46	24"	50'	2'
"O" 316+~~85~~ 50	24"	50'	2'
"O" 322+~~00~~ 19	24"	~~52~~ 56	3'
"O" 323+~~44~~ 54	24"	~~48~~ 56	3'
"O" 338+~~35~~ 30	24"	~~52~~ 56	2'
"O" 342+~~62~~ 73	36"	~~46~~ 56	2'
"L" 348+~~16~~ 30	24"	~~44~~ 48	2'
"L" 348+~~41~~ 51	24"	~~44~~ 48	2'
"L" 373+~~20~~ 55	24"	56'	2'
"O" 390+~~84~~ 09	24"	~~58~~ 56	2'
"O" 392+~~41~~ 69	24"	52'	2'
"O" 396+~~12~~ 07	24"	~~58~~ 56	3'
~~"O" 408+84 405+81~~	36"	50'	3'
"O" 427+~~24~~ 27	24"	64'	3'
"O" 431+~~38~~ 39	24"	58'	2'
"O" 434+52	24"	52'	2'
"O" 443+~~15~~ 80	24"	56'	2'
"O" 443+~~28~~ 84	24"	56'	2'
"L" 457+~~27~~ 01	24"	64'	2'
"O" ~~472+28~~ 473+16	24"	~~52~~ 58	3'
"O" ~~476+00 477+44~~	24"	~~52~~ 62	2'
"L" 486+~~52~~ 74	24"	~~56~~ 52	2'
"L" ~~497+56~~ 493+85	24"	~~58~~ 60	2'
* "L" 501+~~60~~ 63	24"	~~58~~ 60	3'

536+91 — 36" · 72' — 25'

STATION	SIZE	LENGTH	HEIGHT OF COVER
≠ "O" 507+~~48~~ 36	48"	64'	6'
* "O" ~~537+00~~ 536+86	24"	72'	4'
"O" ~~537+05~~ 536+91	24"	72'	4'
"O" 542+~~52~~ 31	24"	60'	2'
"O" ~~549+16~~ 548+88	24"	40'	2'
"O" 555+~~58~~ 36	24"	48'	3'
"O" 564+~~66~~ 41	24"	50'	4'
"O" 571+~~54~~ 31	24"	56'	3'
"O" 581+~~75~~ 53	24"	50'	3'
"O" ~~594+40~~ 593+79	24"	52'	2'
"O" 596+~~80~~ 62	24"	48'	2'
"O" 601+~~32~~ 08	24"	44'	2'
"O" 604+~~75~~ 50	24"	52'	4'
"L" ~~614+08~~ 613+80	24"	50'	2'
"L" ~~614+13~~ 613+85	24"	50'	2'
"L" 621+~~24~~ 37	24"	58'	4'
"L" 631+~~85~~ 88	24"	58'	5'
"L" ~~651+08 Deleted~~	24"	~~52'~~	~~4'~~
"L" 651+~~13~~ 18	24"	52'	4'
"O" ~~667+60~~ 667+57	24"	~~72' 66~~	~~6'~~
"O" ~~672+66~~ 672+37	36"	~~54' 58~~	~~5'~~
"O" ~~672+72~~ 672+47	36"	~~54' 58~~	~~5'~~
~~"L" 680+08~~	~~24"~~	~~54'~~	~~3'~~
~~"L" 690+28~~	~~24"~~	~~68'~~	~~4'~~
~~"O" 711+04~~	~~24"~~	~~58'~~	~~3'~~
~~"L" 729+28~~	~~24"~~	~~54'~~	~~5'~~
* ~~"L" 735+90~~	~~36"~~	~~86'~~	~~7'~~

≠ Denotes Installation of end sections.
* All culvert pipes less than 48" in dia. shall have there ends cut to conform to the finished slope after installation. Payment shall be considered incidental to Item 603(22) "Pipe Conduit".

For all installations see sht. #4 for more details.

CULVERT PIPE REMOVAL SUMMARY

STATION	LENGTH
"L" 209+95	~~62'~~ 52
"L" 218+~~71~~ 89	59'
"L" 235+51	55'
"L" 237+~~49~~ 51	66'
"L" 246+01	65'
"L" 252+~~53~~ 54	56'
"L" 263+~~91~~ 94	50'
"L" ~~267+80~~ 268+74	50'
"L" 272+00 ~~Deleted~~	~~32'~~
"L" 316+~~80~~ 48	44'
"L" 316+~~80~~ 50	44'
"L" 322+~~00~~ 19	52'
"L" 323+~~44~~ 51	45'
"L" ~~331+30~~ 330+~~44~~	~~42'~~
"L" 338+~~35~~ 30	58' 48
"L" 342+~~62~~ 11	47' 48
"L" 342+~~67~~ 15	47' 48
"L" 348+~~16~~ 30	39' 40
"L" 348+~~41~~ 57	38'
"L" 373+~~20~~ 56	~~34'~~ 55
"L" 390+~~84~~ 08	~~43'~~ 44
"L" 392+~~41~~ 69	~~34'~~ 36
"L" 396+~~12~~ 08	46' 44
"L" ~~408+84~~ 405+81	~~52'~~ 50
"L" 427+~~24~~ 26	~~49'~~ 48
"L" 431+38	50'
"L" 434+~~52~~ 51	~~41'~~ 46
"L" 443+~~15~~ 81	48'
"L" 443+~~28~~ 84	48'
"L" 457+~~27~~ 03	59' 60
"L" ~~472+28~~ 473+16	~~45'~~ 48
"L" 486+~~52~~ 74	36'

STATION	LENGTH
"L" ~~497+56~~ 493+85	50'
"L" 507+~~48~~ 36	~~55'~~ 56
"L" ~~537+00~~ 536+85	~~47'~~ 44
"L" ~~537+05~~ 536+91	~~47'~~ 44
"L" 542+~~52~~ 31	~~42'~~ 46
"L" ~~549+16~~ 548+88	~~56'~~ 50
"L" 555+~~58~~ 36	~~42'~~ 44
"L" 564+~~66~~ 31	~~46'~~ 50
"L" 571+~~54~~ 31	~~52'~~ 54
"L" 581+~~75~~ 53	42'
"L" ~~594+40~~ 593+~~79~~	~~46'~~ 48
"L" 596+~~80~~ 62	~~44'~~ 42
"L" 601+~~32~~ 08	46'
"L" 604+~~75~~ 50	50'
"L" ~~614+08~~ 613+~~83~~	54'
"L" ~~614+13~~ 613+~~87~~	54'
"L" 621+~~24~~ 37	50'
"L" 631+~~85~~ 88	54'
"L" ~~651+08~~ ~~Deleted~~	~~48'~~
"L" 651+~~13~~ 18	~~53'~~ 54
"L" 667+~~60~~ 67	~~44'~~ 54
"L" 672+~~66~~ 37	54'
"L" 672+~~71~~ 42	54'
~~"L" 680+08~~	~~54'~~
~~"L" 690+28~~	~~51'~~
~~"L" 711+04~~	~~54'~~
~~"L" 718+55~~	~~50'~~
~~"L" 729+28~~	~~54'~~
~~"L" 735+90~~	~~85'~~
~~"L" 735+95~~	~~86'~~

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	4	14

SIGNING SCHEDULE

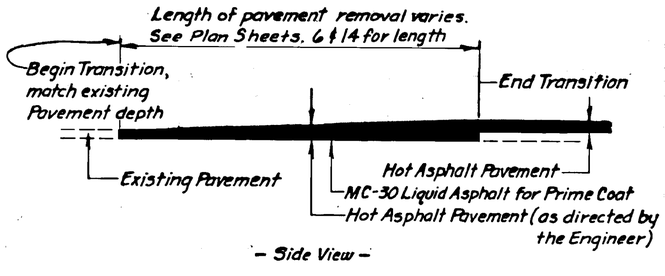
STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA in S.F.	POST NO. of POSTS	TYPE	SIZE	LENGTH	EMBEDMENT	FACING TRAFFIC	REMARKS
"O" 210+95		26'	M10-2	Mile 4	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"O" 210+95		26'	M10-2	Mile 4	6" X 8"	0.063		0.33						EB	
"O" 215+36		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2R
"O" 215+36		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 230+81	26'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2L
"L" 230+81	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 235+56		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2L
"L" 235+56		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 247+98	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2R
"L" 247+98	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 264+55		26'	M10-2	Mile 5	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"L" 264+55		26'	M10-2	Mile 5	6" X 8"	0.063		0.33						EB	
"O" 315+62		26'	M10-2	Mile 6	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"O" 315+62		26'	M10-2	Mile 6	6" X 8"	0.063		0.33						EB	
"O" 338+82		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2L
"O" 338+82		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 349+80	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2R
"L" 349+80	26'		W13-1	50 M.P.H.	2' x 2'	0.063		4.00							
"L" 368+63		26'	M10-2	Mile 7	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"L" 368+63		26'	M10-2	Mile 7	6" X 8"	0.063		0.33						EB	
"O" 385+28		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2L
"O" 385+28		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 394+10	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2R
"O" 394+10	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 413+83		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2R
"O" 413+83		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 420+88		26'	M10-2	Mile 8	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"O" 420+88		26'	M10-2	Mile 8	6" X 8"	0.063		0.33						EB	
"O" 425+76	26'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2L
"O" 425+76	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 429+72		26'	W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-4R
"O" 429+72		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 442+66	26'		W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-4R
"O" 442+66	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 451+95		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2L
"O" 451+95		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"L" 461+89	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	11'	3'	EB	
"L" 461+89	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"L" 466+82		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	14'	3'	WB	
"L" 466+82		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"O" 474+66		26'	M10-2	Mile 9	6" X 8"	0.063		0.33	1	Tube	2"	10'	3'	WB	
"O" 474+66		26'	M10-2	Mile 9	6" X 8"	0.063		0.33						EB	
"O" 475+40	16'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	14'	3'	EB	Install Back of Gdrail
"O" 475+40	16'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"O" 480+61		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"O" 480+61		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"L" 488+72	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	15'	3'	EB	
"L" 488+72	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"L" 501+75		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"L" 501+75		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"L" 509+63		26'	W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"L" 509+63		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-4R
"L" 510+82	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	
"L" 510+82	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"L" 522+24		26'	W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"L" 522+24		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-4R
"L" 522+86	18'		W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	15'	3'	EB	
"L" 522+86	18'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-4R
"O" 530+50		26'	M10-2	Mile 10	6" X 12 3/4"	0.063		0.53	1	Tube	2"	11'	3'	WB	
"O" 530+50		26'	M10-2	Mile 10	6" X 12 3/4"	0.063		0.53						EB	
"O" 546+61	26'		W1-4R	Reverse Curve	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	
"O" 546+61	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-4R
"O" 568+05		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	15'	3'	WB	
"O" 568+05		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"O" 575+61	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	
"O" 575+61	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"O" 579+00		26'	M10-2	Mile 11	6" X 12 3/4"	0.063		0.53	1	Tube	2"	11'	3'	WB	
"O" 579+00		26'	M10-2	Mile 11	6" X 12 3/4"	0.063		0.53						EB	
"O" 579+06		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"O" 579+06		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"O" 587+00	26'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	
"O" 587+00	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"O" 613+52		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"O" 613+52		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2R
"L" 624+46	26'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	
"L" 624+46	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L
"L" 632+43		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	
"L" 632+43		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							Mount Below W1-2L

SIGNING SCHEDULE

STATION	DIST. FROM ℄ LT.	DIST. FROM ℄ RT.	CODE NO.	LEGEND	SIGN PANEL THICKNESS SIZE	UNFRAMED	FRAMED	AREA in S.F.	POST NO. of POSTS	TYPE	SIZE	LENGTH	EMBEDMENT	FACING TRAFFIC	REMARKS
"L" 633+50		26'	M10-2	Mile 12	6" X 12 3/4"	0.063		0.53	1	Tube	2"	11'	3'	WB	
"L" 633+50		26'	M10-2	Mile 12	6" X 12 3/4"	0.063		0.53						EB	
"L" 641+42	26'		W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	EB	Mount Below W1-2R
"L" 641+42	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 648+55		26'	W1-2R	Curve Right	3' X 3'	0.063		9.00	2	Tube	2"	15'	3'	WB	Mount Below W1-2R
"O" 648+55		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 658+78		26'	W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2L
"O" 658+78		26'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 660+26	26'		W1-2L	Curve Left	3' X 3'	0.063		9.00	2	Tube	2"	14'	3'	EB	Mount Below W1-2L
"O" 660+26	26'		W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
"O" 673+48		20'	W1-2R	~~Curve Right~~ Road Narrows	3' X 3'	0.063		9.00	2	Tube	2"	16'	3'	WB	Mount Below W1-2R
"O" 673+48		20'	W13-1	50 M.P.H.	2' X 2'	0.063		4.00							
~~"O" 675+79~~	~~20'~~		~~W1-2R~~	~~Curve Right~~	~~3' X 3'~~	~~0.063~~		~~9.00~~	~~2~~	~~Tube~~	~~2"~~	~~16'~~	~~3'~~	~~EB~~	~~Mount Below W1-2R~~
~~"O" 675+79~~	~~20'~~		~~W13-1~~	~~50 M.P.H.~~	~~2' X 2'~~	~~0.063~~		~~4.00~~							
~~"O" 686+70~~		~~26'~~	~~M10-1~~	~~Mile 13~~	~~6" X 12 3/4"~~	~~0.063~~		~~0.53~~	~~1~~	~~Tube~~	~~2"~~	~~11'~~	~~3'~~	~~WB~~	
~~"O" 686+70~~		~~26'~~	~~M10-1~~	~~Mile 13~~	~~6" X 12 3/4"~~	~~0.063~~		~~0.53~~						~~EB~~	
~~"O" 687+25~~	~~26'~~		~~W1-2L~~	~~Curve Left~~	~~3' X 3'~~	~~0.063~~		~~9.00~~	~~2~~	~~Tube~~	~~2"~~	~~16'~~	~~3'~~	~~EB~~	~~Mount Below W1-2L~~
~~"O" 687+25~~	~~26'~~		~~W13-1~~	~~50 M.P.H.~~	~~2' X 2'~~	~~0.063~~		~~4.00~~							
~~"O" 700+27~~		~~22'~~	~~W1-2L~~	~~Curve Left~~	~~3' X 3'~~	~~0.063~~		~~9.00~~	~~2~~	~~Tube~~	~~2"~~	~~15'~~	~~3'~~	~~WB~~	~~Mount Below W1-2L~~
~~"O" 700+27~~		~~22'~~	~~W13-1~~	~~50 M.P.H.~~	~~2' X 2'~~	~~0.063~~		~~4.00~~							~~Install Back of Gdrail~~
~~"O" 710+97~~	~~16'~~		~~W1-2R~~	~~Curve Right~~	~~3' X 3'~~	~~0.063~~		~~9.00~~	~~2~~	~~Tube~~	~~2"~~	~~14'~~	~~3'~~	~~EB~~	~~Mount Below W1-2R~~
~~"O" 710+97~~	~~16'~~		~~W13-1~~	~~50 M.P.H.~~	~~2' X 2'~~	~~0.063~~		~~4.00~~							
~~"L" 738+47~~		~~26'~~	~~W5-1~~	~~Road Narrows~~	~~3' X 3'~~	~~0.063~~		~~9.00~~	~~1~~	~~Tube~~	~~2"~~	~~13'~~	~~3'~~	~~WB~~	
~~"L" 739+89~~		~~26'~~	~~M10-2~~	~~Mile 14~~	~~6" X 12 3/4"~~	~~0.063~~		~~0.53~~	~~1~~	~~Tube~~	~~2"~~	~~11'~~	~~3'~~	~~EB~~	
~~"L" 739+89~~		~~26'~~	~~M10-2~~	~~Mile 14~~	~~6" X 12 3/4"~~	~~0.063~~		~~0.53~~						~~WB~~	
~~"L" 741+47~~		~~26'~~	~~R2-1~~	~~Speed Limit 50~~	~~30" X 36"~~	~~0.063~~		~~7.50~~	~~1~~	~~Tube~~	~~2"~~	~~14'~~	~~3'~~	~~WB~~	
					TOTALS			545.76	93			1375'			

SIGNING NOTES

1. Sign locations and post length are approximate only and are subject to minor revisions.
2. All sign posts shall be telescoping perforated galvanized steel posts; the 2" size shall be used above ground and the 2¼" size shall be used below ground for the sleeve.
3. All posts shall be installed with sleeve type embedment in accordance with Standard Drawing S-30.11, except that the 2¼" size shall be used for the entire embedment depth.
4. Post lengths are from the cut off in the sleeve to the top of the post. See Standard Drawings S-05.00 & S-30.11.
5. All existing signs shall be removed and dismantled by the contractor and stockpiled at the State of Alaska, DOT&PF Maintenance Station as directed by the engineer. *This work shall be considered incidental to Item 615(1) "Standard Signs".*

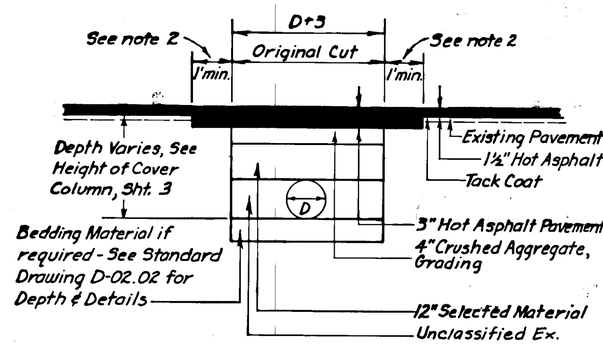


– Side View –

PAVEMENT TRANSITION DETAIL

CULVERT PATCH DETAIL

(For Typical A Only)

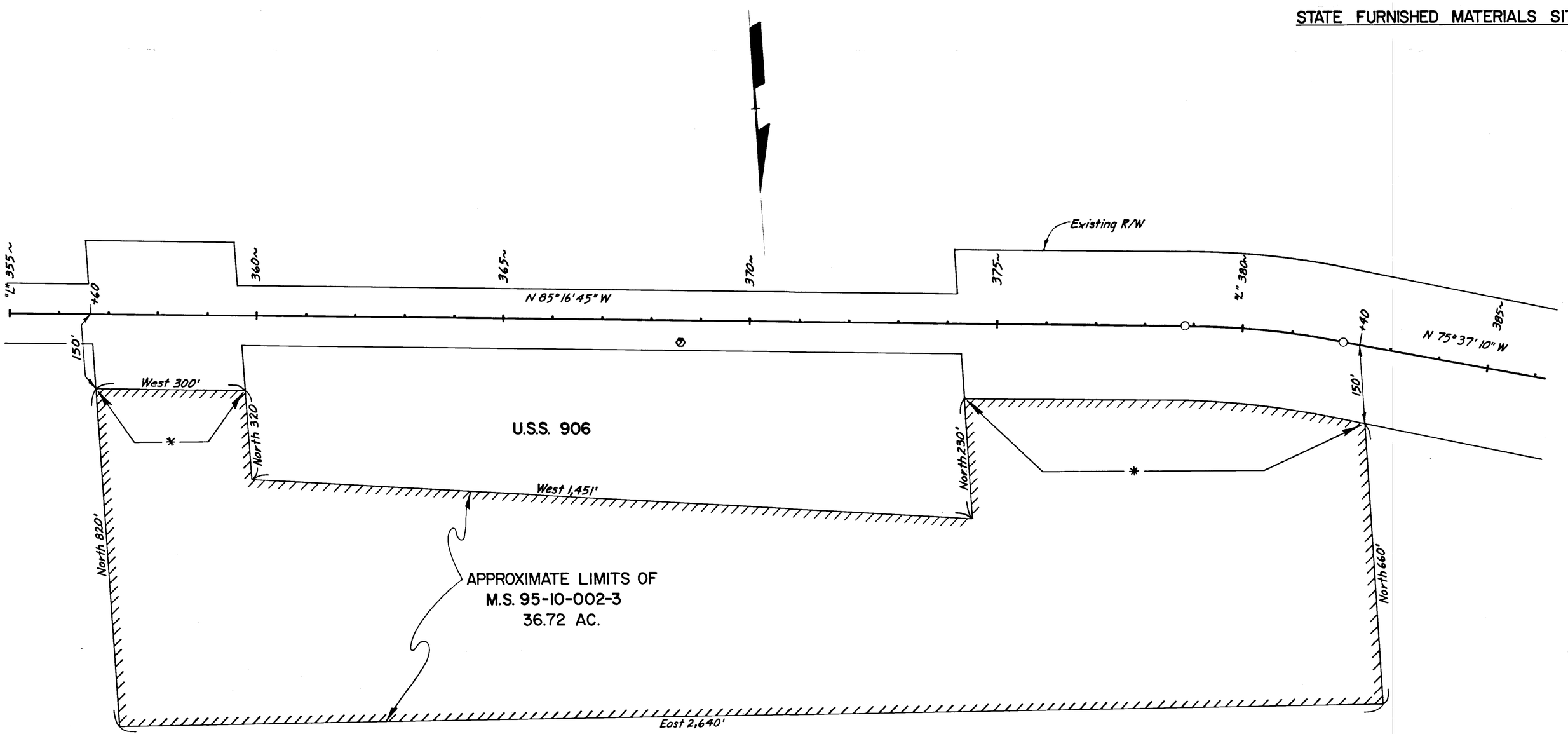


NOTES:

1. *Culvert patches shall be installed for the width of the existing pavement only.*
2. *Prior to paving the culvert patch, the existing pavement shall be cut back over undisturbed earth as directed by the Engineer.*
3. *New culverts shall be laid to approximately the same flow line as existing culverts.*

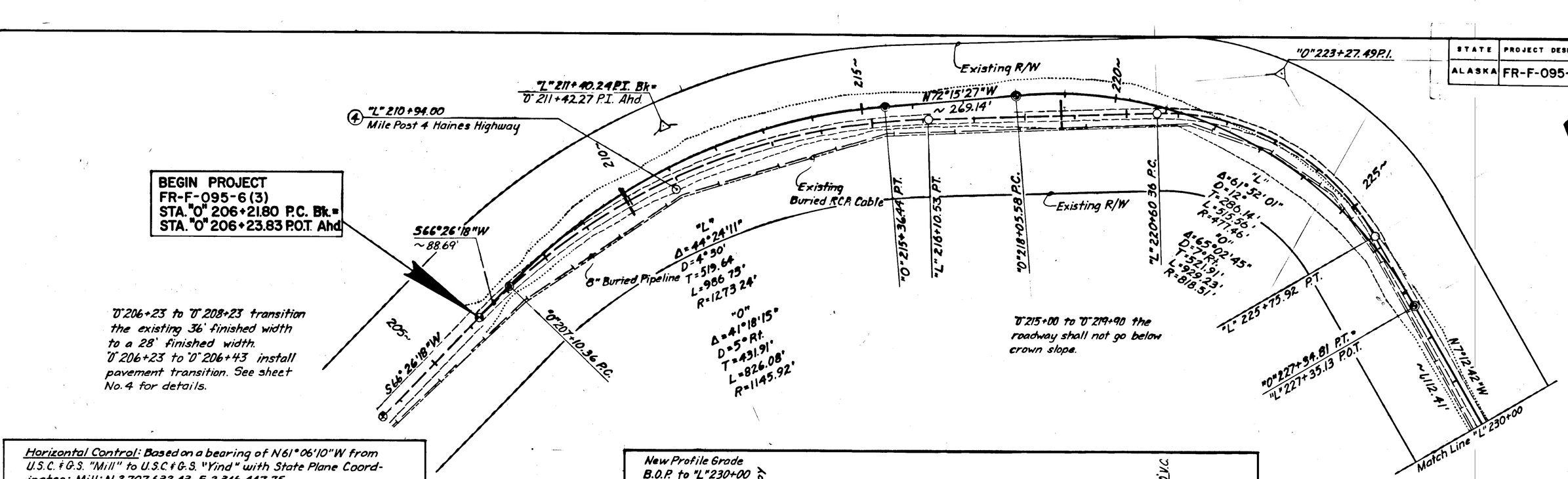
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	5	14

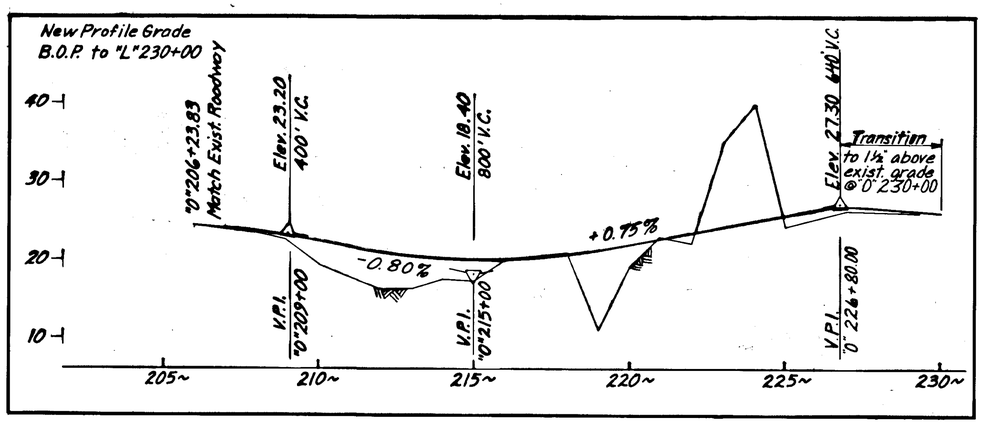
STATE FURNISHED MATERIALS SITE

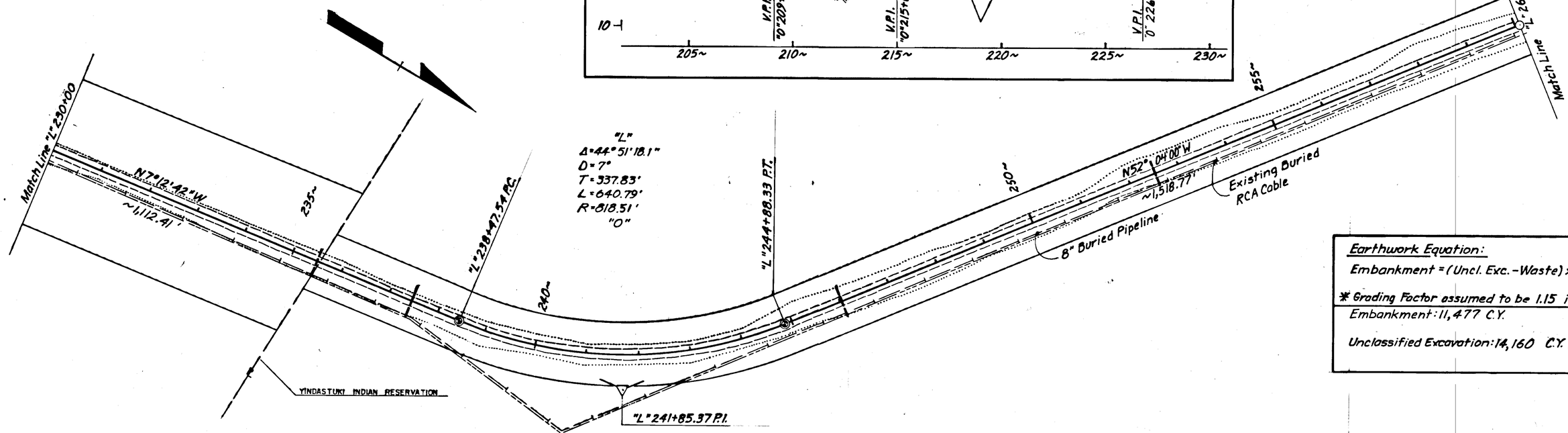


* In developing access to MS-95-10-002-3 the contractor shall use only those areas shown above.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	FR-F-095-6(3)	1979	6







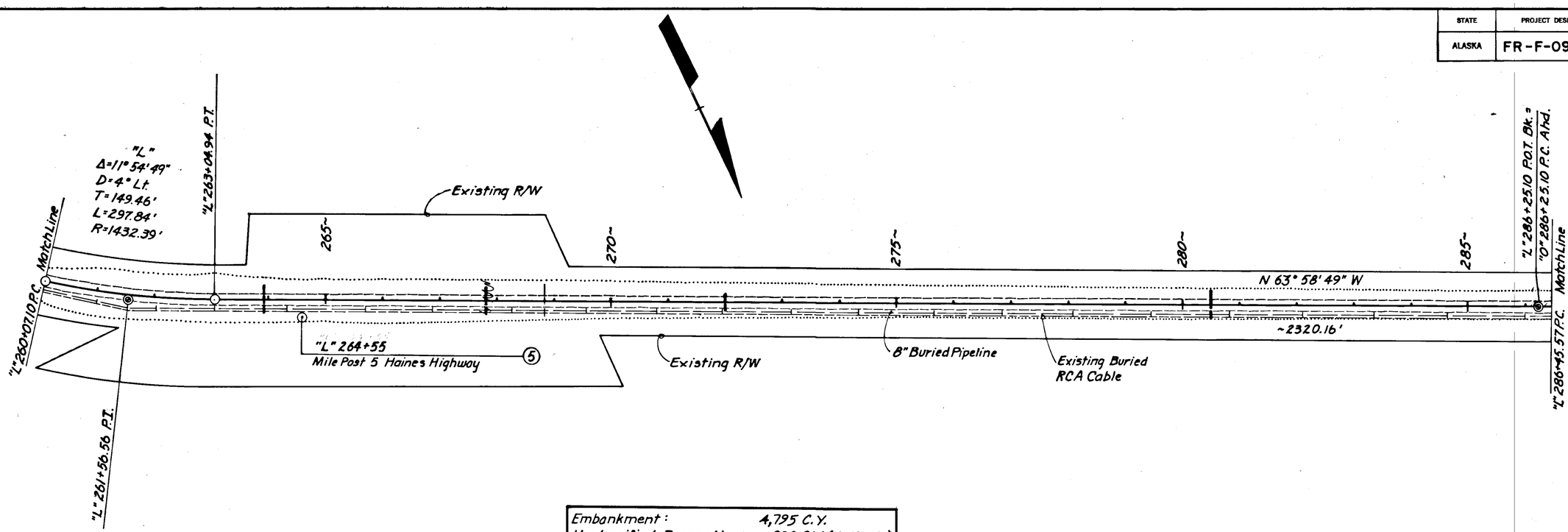
Horizontal Control: Based on a bearing of N61°06'10"W from U.S.C.&G.S. "Mill" to U.S.C.&G.S. "Yind" with State Plane Coordinates: Mill: N 2,707,632.43 E 2,346,447.75
Yind: N 2,713,937.85 E 2,335,024.21
A scale factor of 0.99995591 was used to convert grid distances to ground distances.

Vertical Control: Based on U.S.C.&G.S. & G.S.C. Bench Marks located throughout the project. See sheets 6-14 for locations.
U.S.C.&G.S. is United States Coast & Geological Survey. G.S.C. is Geological Survey of Canada.

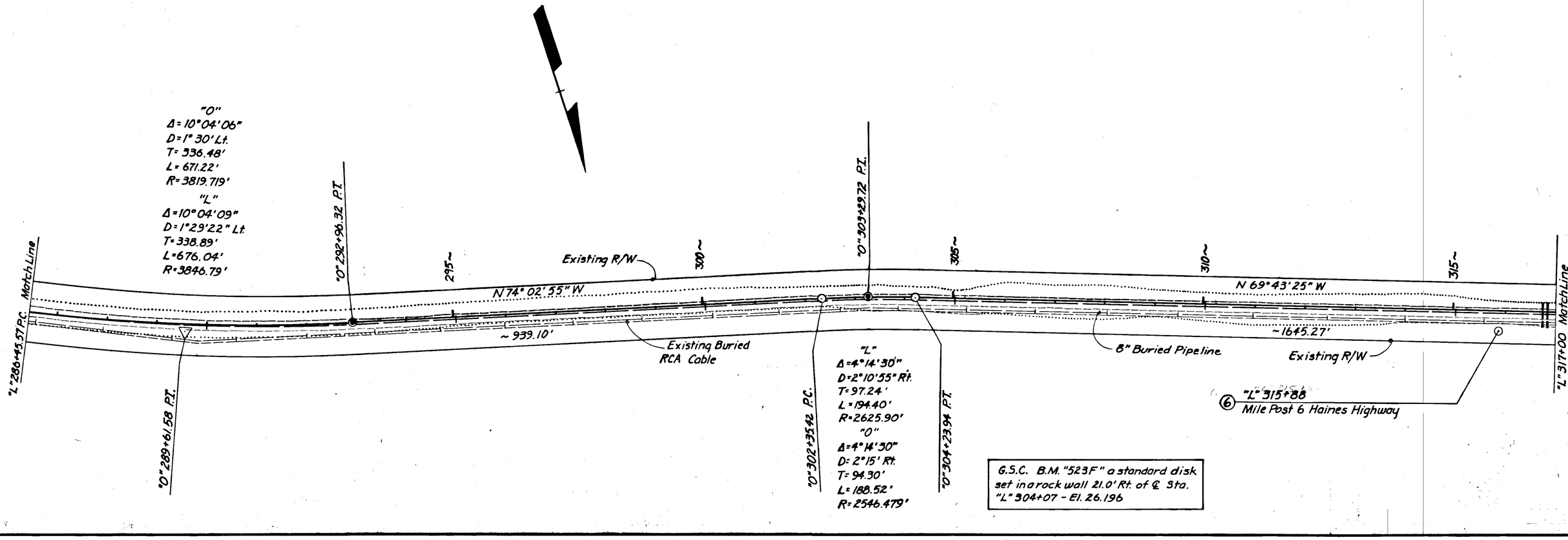
Earthwork Equation:
Embankment = (Uncl. Exc. - Waste) x Grading Factor
* Grading Factor assumed to be 1.15 in rock

Embankment: 11,477 C.Y.
Unclassified Excavation: 14,160 C.Y. (No Waste)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	7	14

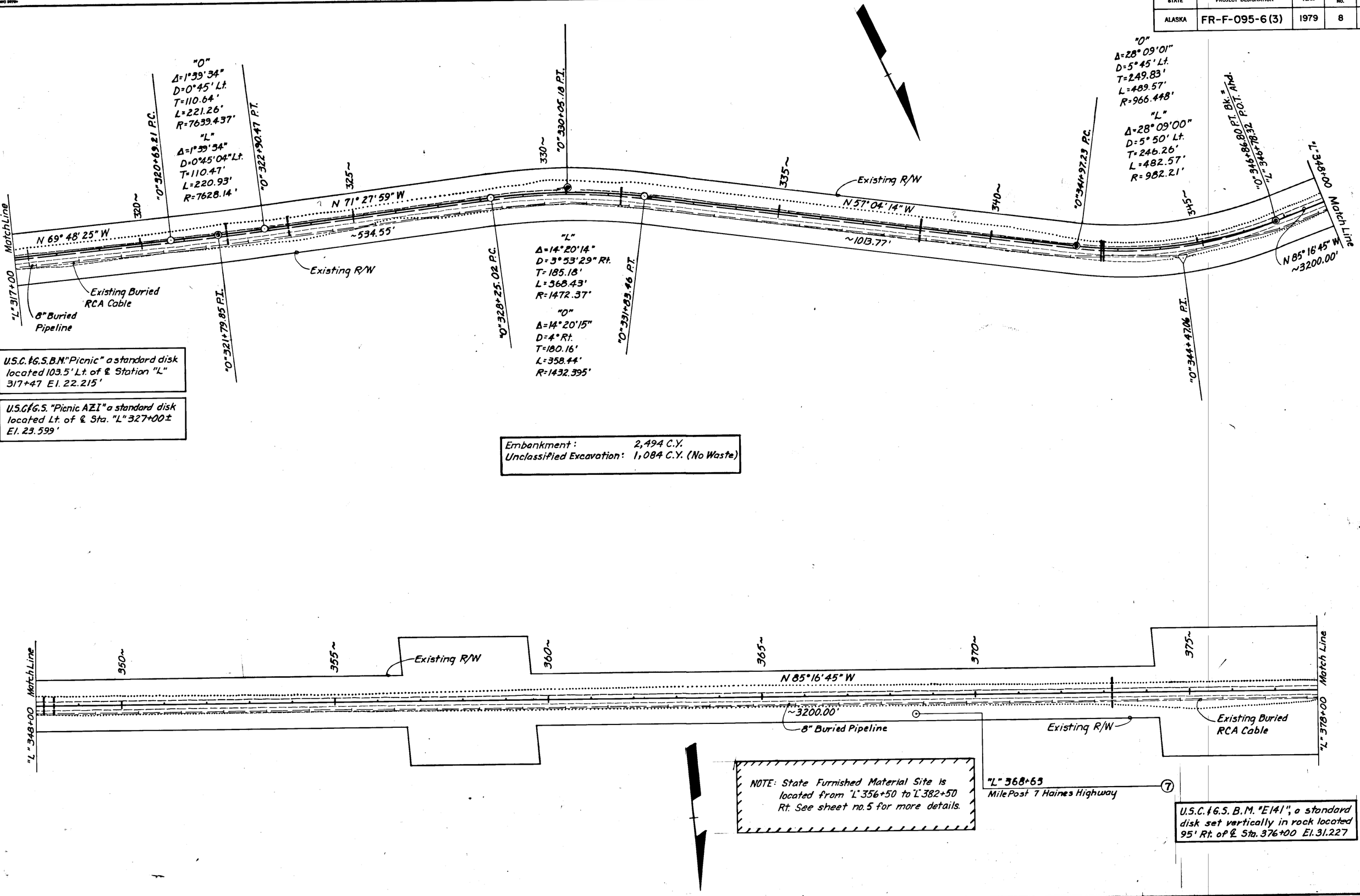


Embankment:	4,795 C.Y.
Unclassified Excavation:	820 C.Y. (No Waste)



G.S.C. B.M. "523F" a standard disk set in a rock wall 21.0' Rt. of ℄ Sta. "L" 304+07 - El. 26.196

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	8	14



U.S.C. & G.S. B.M. "Picnic" a standard disk located 103.5' Lt. of ℄ Station "L" 317+47 El. 22.215'

U.S.C. & G.S. "Picnic AZI" a standard disk located Lt. of ℄ Sta. "L" 327+00± El. 23.599'

Embankment:	2,494 C.Y.
Unclassified Excavation:	1,084 C.Y. (No Waste)

U.S.C. & G.S. B.M. "E141", a standard disk set vertically in rock located 95' Rt. of ℄ Sta. 376+00 El. 31.227

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	9	14

Match Line

"L" 378+00

"L" 380+39.70 P.I. = "O" 380+39.70 P.I.

380~

"L"
Δ=10°53'24"
D=3°30'34" Rt.
T=155.62'
L=310.31'
R=1632.62'

"O"
Δ=9°39'35"
D=3° Rt.
T=161.38'
L=321.99'
R=1909.859'

"L" 378+78.32 P.O.T. Bk. -
"O" 378+78.32 P.C. Ahd.

"O" 382+40.31 P.T.

385~

N 75° 37' 10" W

~628.29'

Existing Buried RCA Cable

Existing R/W

"O" 388+28.60 P.C.

"O" 389+70.50 P.I.

390~

"O"
Δ=19°40'15"
D=7° Lt.
T=141.90'
L=281.01'
R=818.511'

"L"
Δ=21°44'27"
D=7°59'29" Lt.
T=137.68'
L=272.05'
R=716.97'

"O" 391+09.61 P.T.

395~

S 84° 42' 36" W

~887.40'

8" Buried Pipeline

"O" 400+59.22 P.I.

400~

Existing R/W

"O" 405+75.45 P.C.

405~

"L"
Δ=5°42'41"
D=2° 09'32" Lt.
T=132.39'
L=264.55'
R=2653.95'

"O" 408+61.02 P.T.

"O"
Δ=5°42'41"
D=2° Lt.
T=142.90'
L=285.57'
R=2,864.789'

S 89° 22' 23" W

~454.09'

S 83° 39' 42" W

~821.39'

Match Line

"L" 410+00

"L"
Δ=5°30'11"
D=4°24'32" Rt.
T=62.46'
L=124.82'
R=1299.55'

"O" 399+97.01 P.C.

"O" 401+21.36 P.T.

"O"
Δ=4°39'47"
D=3°45' Rt.
T=62.21'
L=124.35'
R=1,527.887'

"O" 407+18.35 P.I.

Embankment: 6,999 C.Y.

Unclassified Excavation: 9,339 C.Y. (No Waste)

"O" 419+92.79 P.I.

420~

"L" 420+89
Mile Post 8 Haines Hwy.

"L"
Δ=17°22'15"
D=7°13'29" Rt.
T=121.15'
L=240.44'
R=793.05'

"O" 416+82.41 P.C.

"O"
Δ=41°32'03"
D=7° Rt.
T=310.39'
L=593.35'
R=818.511'

"L"
Δ=26°00'16"
D=5° 32' 34" Rt.
T=238.69'
L=469.16'
R=1033.70'

"O" 422+75.75 P.T.

425~

"L"
Δ=1°25'43"
D=0°59'22" Lt.
T=72.20'
L=144.39'
R=5790.70'

430

N 54° 48' 15" W

~995.66'

Existing Buried RCA Cable

8" Buried Pipeline

Existing R/W

"O" 433+61.26 P.T.

"O"
Δ=21°17'30"
D=7° Lt.
T=153.86'
L=304.17'
R=818.511'

"O" 436+62.01 P.C.

"L"
Δ=27°09'03"
D=9°08'55" Lt.
T=151.23'
L=296.78'
R=626.28'

435~

N 42° 16' 33" W

~211.62'

"O" 439+46.18 P.T.

Match Line

N 63° 34' 03" W

~850.53'

S 83° 39' 42" W

~821.39'

Match Line

"L" 410+00

Existing R/W

U.S.C. & G.S. B.M. "Brenda" a standard disk located 25' Lt. of ℄ Sta. "L" 430+50 El. 35.489'

G.S.C. B.M. "522 F" a standard disk set in a rock wall 32.3' Rt. of ℄ Sta. "L" 423+50 El. 37.499'

"O" 432+71.41 P.C.

"O" 434+50.59 P.T.

"L"
Δ=17°58'32"
D=9°37'30" Rt.
T=94.15'
L=186.76'
R=595.28'

"O"
Δ=12°31'42"
D=7° Rt.
T=89.85
L=178.98'
R=818.511'

"O" 438+15.87 P.I.

"L" 440+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	10	14

Match Line "L" 440+00

440~

445~

N 63° 34' 03" W

~850.53~

Existing Buried T.P. Cable

"L" 446+76.11 P.I.

"D" 450+07.00 P.I.

450~

"D"
Δ=23°42'50"
D=6°13'14" Lt.
T=193.38'
L=381.22'
R=921.08'

"L"
Δ=22°26'46"
D=5°52'45" Lt.
T=193.38'
L=381.79'
R=974.56'

"D" 454+92.13 P.C.

455~

N 46° 34' 03" W

~302.66'

"D" 458+78.37 P.T. Bk. = "L" 458+88.64 P.T. Ahd.

460~

N 70° 16' 53" W

~202.56'

"L" 462+05.78 P.T.

Existing Buried RCA Cable

N 65° 46' 53" W

~152.77'

465~

"L" 465+64.52 P.T.

N 55° 31' 09" W

~326.20

Match Line "L" 469+00

U.S.C.&G.S. B.M. "Brenda AZ1" a standard disk located 55' Rt. of ℄ Sta. "L" 446+00 - El. 41.818

"D" 448+16.71 P.C.

"L" 448+74.29 P.C.

"L"
Δ=15°43'54"
D=7°46'28" Rt.
T=101.82'
L=202.35'
R=736.99'

"D"
Δ=17°00'00"
D=4°30' Rt.
T=190.29'
L=377.78
R=1,273.24

"L" 450+76.64 P.T.

"D" 451+94.49 P.T.

"L" 457+00.23 P.T.

"L" 460+91.20 P.C.

"L"
Δ=4°30'00"
D=1°57'53" Rt.
T=114.58'
L=229.04'
R=2916.828'

"L" 463+20.24 P.T.

"L" 464+73.01 P.C.

"L"
Δ=10°15'43"
D=5°37'20" Rt.
T=91.51'
L=182.53'
R=1019.095'

"L" 466+55.54 P.T.

Embankment : 2,722 C.Y.

Unclassified Excavation : 3,256 C.Y. (No Waste)

"L" 462+70 to "L" 465+25 the outside shoulder shall not go below crown slope.

Match Line "L" 469+00

"L" 471+11.81 P.T. Bk. = "D" 471+11.81 P.T. Ahd

470~

N 55° 31' 09" W

~326.20

475~

N 37° 27' 36" W

~1120.05'

8" Buried Pipeline

480~

"D"
~~Δ=14°37'13"~~
D=7° Lt.
~~T=105.00'~~
~~L=208.86'~~
R=818.511'

"L"
Δ=20°02'30"
D=7°59'47" Lt.
T=126.61'
L=250.63'
R=716.52'

² 484+53.35 "D" ~~483+69.63~~ P.C.

² 486+46.68 P.T. Bk. = "D" ~~485+71.89~~ P.O.T. Ahd "L" 486+51.82

485~

490~

N 52° 04' 49" W

~1526.06'

Existing Buried RCA Cable

495~

Match Line "L" 500+00

88.94 "L" ~~469+01.74~~ P.O.T. Bk. = "D" 469+01.74 P.C. Ahd 88.94

32.86 ² "D" ~~472+39.73~~ P.T. Bk. = ~~469+72+40.58~~ P.O.T. Ahd

"L" 474+64
MilePost 9 Haines Hwy. ⑨

"L"
Δ=21°28'24"
D=10°25'03" Rt.
T=104.29'
L=206.13'
R=549.995'

² "D"
~~Δ=18°03'33"~~
D=7° Rt.
~~T=130.07'~~
~~L=257.99'~~
R=818.511'

Δ = 17°04'28"
T = 122.87
L = 243.92

Δ = 13°32'00"
T = 97.12'
L = 193.33'

Δ = 13°32'00"
T = 97.12'
L = 193.33'

D^2 484+53.35
Δ^2 486+46.68
L 486+51.82
D^2 485+50.47 P.I.

D^2 484+65.35 P.T.

D^2 485+50.47 P.I.

T.B.M. #1 a rock outcropping 3' above the roadway 23' Lt. of ℄ Sta. 489+90 El. 37.20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	11	14

"L" 500+00.00 Match Line

N 52°04'49" W

~1526.06'

"L" 500+97.95 P.C.

"L" 501+84.91 P.I.

N 48°32'48" W

~202.83'

"L" 502+71.74 P.T.

"L"
Δ=5°32'01"
D=3°11'03" Rt.
T=86.96'
L=173.79'
R=1,799.396'

"L" 504+74.57 P.O.T. Bk. =
"O" 504+74.57 P.C. Ahd.

505~

"L"
Δ=21°29'15"
D=8°26'55" Lt.
T=128.68'
L=254.33'
R=678.17'

"O"
Δ=21°29'15"
D=7° Lt.
T=155.31'
L=306.96'
R=818.511'

"O" 506+29.88 P.I. =
"L" 506+29.88 P.I.

"O" 507+81.53 P.T. Bk. =
"L" 507+82.16 P.O.T. Ahd.

Existing R/W

510~

N 68°02'03" W

~480.68'

Existing Buried
RCA Cable

"O" 512+62.84 P.O.T. Bk. =
"O" 512+62.84 P.C. Ahd.

"O" 514+29.52 P.I. =
"L" 514+29.52 P.I.

515~

"O" 513+12 Begin Full Super. "O" 515+25 End Full Super.

"O"
Δ=23°01'15"
D=7° Rt.
T=166.68'
L=328.87'
R=818.511'

"L"
Δ=23°01'15"
D=8°13'25" Rt.
T=141.88'
L=279.94'
R=696.72'

"O" 515+91.71 P.T. Bk. =
"L" 515+92.38 P.O.T. Ahd.

N 45°00'48" W

~182.61'

"L" 517+74.99 P.O.T. Bk. =
"O" 517+74.99 P.C. Ahd.

"O" 518+81.00 P.I. =
"L" 518+81.00 P.I.

"O" 519+85.84 P.T. Bk. =
"L" 519+86.01 P.O.T. Ahd.

520~

"O"
Δ=14°45'34"
D=7° Lt.
T=106.01'
L=210.85'
R=818.511'

"L"
Δ=14°45'34"
D=8°15'04" Lt.
T=89.94'
L=178.88'
R=694.40'

N 59°46'22" W

525~

~538.40'

8" Buried Pipeline

Existing R/W

"L" 525+24.41 P.O.T. Bk. =
"O" 525+24.41 P.C. Ahd.

"O" 529+12.31 P.I.

530~

(10) "L" 530+55
Mile Post 10 Haines Highway

"L"
Δ=54°43'34"
D=9°39'01" Rt.
T=307.27'
L=567.09'
R=593.72'

"O"
Δ=50°42'49"
D=7° Rt.
T=387.90'
L=724.48'
R=818.511'

"L" 532+08.13 P.T. Match Line

"O" 537+90 to "O" 541+55 the outside shoulder shall not go below crown slope.

Embankment: 6,715 C.Y. (Includes 3,450 C.Y. Selected Material)
Unclassified Excavation: 4,206 C.Y. (Includes 820 C.Y. of Waste

"L"
Δ=28°41'66"
D=15°29'22" Lt.
T=94.58'
L=185.19'
R=369.90'

"O" 534+87.66 P.C.

"O"
Δ=24°40'21"
D=7° Lt.
T=179.01'
L=352.46'
R=818.511'

"L"
Δ=17°40'16"
D=7°19'12" Lt.
T=121.67'
L=241.41'
R=782.73'

"O"
Δ=17°40'16"
D=7° Lt.
T=127.23'
L=252.44'
R=818.511'

"O" 532+48.89 P.T.

N 9°03'33" W

~238.77'

535~

"O" 538+40.12 P.T.

540~

"O" 541+08.51 P.C.

"O" 543+60.95 P.T.

N 51°24'10" W

545~

"O" 549+84.12 P.I.

550~

555~

Existing R/W

N 37°15'04" W

~863.21'

"L" 560+00.00 Match Line

N 33°43'54" W

~268.39'

~267.57'

Existing Buried
RCA Cable

"O" 536+46.67 P.I.

8" Buried Pipeline

"O" 542+35.74 P.I.

"O" 546+28.52 P.C.

"O"
Δ=14°09'06"
D=2° Rt.
T=355.60'
L=707.58'
R=2,864.79'

"O" 553+36.10 P.T. Bk. =
"O" 553+36.07 P.O.T. Ahd.

"L"
Δ=5°18'23"
D=2°21'53" Rt.
T=112.28'
L=224.40'
R=2,442.94'

"L"
Δ=8°50'43"
D=2°54'01" Rt.
T=152.79'
L=304.98'
R=1,975.63'

T.B.M. #2 a rock outcropping 3' above the roadway level 23.9' Rt. of ℄ Sta. 546+53 El. 38.36

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6 (3)	1979	12	14

"L"
Δ = 4°04'15"
D = 1°48'31" Lt.
T = 112.59'
L = 225.08'
R = 3,167.94'

"O"
Δ = 4°04'15"
D = 1°45' Lt.
T = 116.36'
L = 232.62'
R = 3274.045'

"L"
Δ = 10°57'39"
D = 7°44'44" Lt.
T = 71.06'
L = 141.68'
R = 740.79'

"O"
Δ = 10°57'28"
D = 7 Lt.
T = 78.51'
L = 156.54'
R = 818.511'

"L" 560+00.00 Match Line
"O" 561+99.28 P.C.
"O" 564+31.90 P.T.
"O" 571+04.86 P.C.
"O" 572+61.40 P.T.
"O" 576+37.92 P.T.
"O" 583+03.67 P.T.
560~
565~
570~
575~
580~
585~
N 37°15'04" W
N 41°19'19" W
N 52°16'47" W
N 39°35'48" W
N 25°57'23" W
~863.21'
~672.96'
~235.02'
~427.51
~782.05'
Existing Buried RCA Cable
8" Buried Pipeline
"L" 579+29
Mile Post 11 Haines Highway (11)
Existing R/W
"O" 563+15.64 P.T.
"O" 571+83.37 P.T.
"O" 574+96.42 P.C.
"O" 577+78.27 P.T.
"O" 582+05.78 P.C.
"O" 584+00.64 P.T.
"L" 590+00.00 Match Line

G.S.C. B.M. "521F" a standard disk set 3' above roadway level 20.3' Rt. of ℄ Sta. 570+17 El. 41.004'

Embankment : 3,108 C.Y.

Unclassified Excavation : 1,238 C.Y. (No Waste)

"O"
Δ = 12°40'59"
D = 4°30 Rt.
T = 141.50'
L = 281.85'
R = 1273.240

"L"
Δ = 12°41'00"
D = 4°24'34" Rt.
T = 144.41'
L = 287.64'
R = 1,299.39'

"O"
Δ = 13°38'25"
D = 7° Rt.
T = 97.89'
L = 194.86'
R = 818.511'

"L"
Δ = 13°38'25"
D = 8°19'59" Rt.
T = 82.23'
L = 163.69'
R = 687.57'

"L"
Δ = 7°42'34"
D = 1°28'35" Lt.
T = 261.49'
L = 522.18'
R = 3,880.81'

"O"
Δ = 7°42'34"
D = 1°30' Lt.
T = 257.37'
L = 513.96'
R = 3819.719'

"L"
Δ = 9°22'46"
D = 2°04'10"
T = 227.13'
L = 453.23'
R = 2,768.66'

"O"
Δ = 18°05'19"
D = 1°40'49" Lt.
T = 542.80'
L = 1,076.53'
R = 3,410.'036'

"L"
Δ = 8°43'33"
D = 4°30'01" Lt.
T = 97.14'
L = 193.90'
R = 1,273.161'

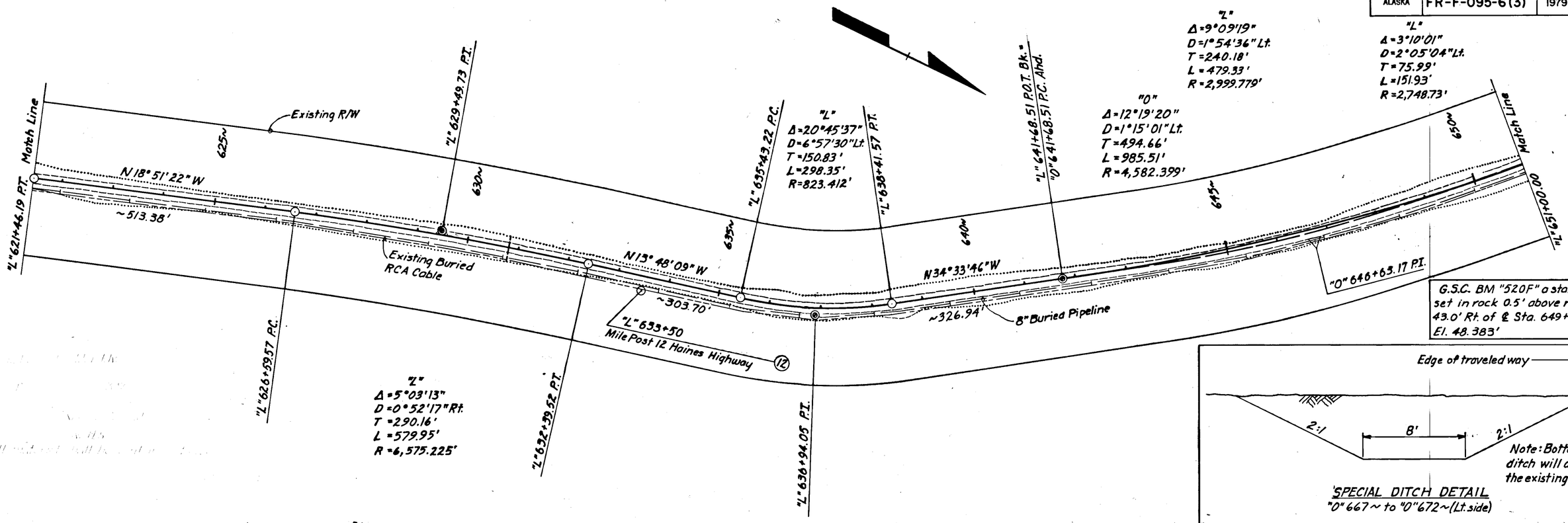
"L" 590+00.00 Match Line
"O" 591+82.69 P.C.
"O" 596+98.65 P.T.
"O" 605+75.41 P.C.
"L" 619+20.05 P.T.
"L" 621+46.19 P.T. Match Line
590~
595~
600~
605~
610~
615~
620~
N 25°57'23" W
N 33°39'57" W
~782.05'
~878.76'
Existing R/W
Existing Buried RCA Cable
8" Buried Pipeline
"O" 594+40.06 P.T.
"O" 611+18.21 P.I.
"O" 616+51.94 P.T. Bk.
"L" 616+80.67 P.C. Ahd.

"O" 615+00 End Full Super.
"L" 618+30 Begin Full Super.

"L"
Δ = 32°53'54"
D = 7°04'01" Rt.
T = 239.38'
L = 465.52'
R = 810.757'

U.S.C.&G.S. B.M. "G 141" a standard disk set in rock wall 1' above roadway level 23.0' Rt. of ℄ Sta. 613+42 El. 45.230'

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	13	14



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FR-F-095-6(3)	1979	14	14

U.S.C.&G.S. B.M. "Ray AZ 1" a standard disk located 25' Lt. of ℄ Sta. 689+84 El. 49.386'

"L" 680+73.53 P.I.

680~

Existing R/W

685~

"O" 690+41.13 P.I.

690~

N 37°21'44"W

~175.76'

Existing Buried RCA Cable

"L" 684+17.92 P.T.

"L" 685+93.67 P.O.T. Bk.*
"O" 685+93.67 P.C. Ahd.

"L" 686+70
Mile Post 13 Haines Highway (13)

"L"
Δ = 52°08'15"
D = 7° Rt.
T = 400.43'
L = 744.82'
R = 818.511'

"L" 683+18 to "O" 686+45
The roadway shall remain in full super

"O"
Δ = 26°22'20"
D = 3° Rt.
T = 447.46'
L = 879.07'
R = 1,909.859'

"L"
Δ = 20°24'35"
D = 2°59'24" Rt.
T = 344.96'
L = 682.60'
R = 1,916.25'

"L" 694+72.74 P.T. Bk.*
"O" 694+72.29 P.O.T. Ahd.

"L"
Δ = 5°57'49"
D = 2°35'18" Rt.
T = 115.28'
L = 230.36'
R = 2,213.62'

N10°59'24"W

~467.77'

700~

"L" 676+50.00

Match Line

N 89°29'59"W
~368.93'

"L" 676+73.10 P.C.

"L" 699+40.06 P.O.T. Bk.*
"O" 699+40.06 P.C. Ahd.

8" Buried Pipeline

"L"
Δ = 6°25'02"
D = 2°48'40" Rt.
T = 114.26'
L = 228.28'
R = 2,038.19'

"O"
Δ = 6°25'02"
D = 2° Rt.
T = 160.60'
L = 320.86'
R = 2,864.789'

"O" 701+00.66 P.I.

"O" 702+60.92 P.T.

"O" 703+26.59 P.C.

"O"
Δ = 28°12'49"
D = 6° Lt.
T = 239.98'
L = 470.23'
R = 954.930'

"L"
Δ = 28°12'49"
D = 5°54'33" Lt.
T = 243.67'
L = 477.45'
R = 969.61'

N4°34'22"W
~65.67'

705~

"O" 705+66.57 P.I.

"O" 707+96.82 P.T.

N32°47'11"W
~438.70'

Match Line

"L" 707+00.00

"O" 701+50 End Full Super
"O" 704+50 Begin Full Super

END TEMPORARY TRANSITION AND PROJECT
STA. "L" 741+47.25

"L"
Δ = 20°52'41"
D = 2°30' Lt.
T = 422.24'
L = 835.12'
R = 2,291.831'

BEGIN TEMPORARY TRANSITION
(SEE NOTE BELOW)
STA. "L" 739+89.00

"L" 733+12.13 P.C.

"L" 737+34.37 P.I.

"L" 739+89
(14) Mile Post 14 Haines Highway

"L" 739+89 to "L" 741+47
Transition the 28' finished width to meet existing finished width.

"L" 741+27 to "L" 741+47
Install pavement transition.
See sheet #4 for details

Embankment: 5,952 C.Y.
Unclassified Excavation: 1,603 C.Y. (No Waste)

"L"
Δ = 13°19'27"
D = 2°31'45" Lt.
T = 264.60'
L = 526.82'
R = 2,265.40'

"O"
Δ = 13°19'27"
D = 2°30' Lt.
T = 267.69'
L = 532.97'
R = 2,291.831'

"O" 714+86.08 P.I.

"O" 712+35.52 P.C.

"O" 717+33.31 P.T.

"O"
Δ = 16°10'41"
D = 3°15' Rt.
T = 250.56'
L = 497.79'
R = 1,762.947'

"L"
Δ = 16°10'41"
D = 3°14'05"
T = 251.74'
L = 500.14'
R = 1,771.27'

710~

Match Line

"L" 709+00.00

N 32°47'11"W
~438.70'

715~

Existing R/W

720~

"O" 723+76.42 P.C.

725~

N16°36'30"W

8" Buried Pipeline
~643.11'

"O" 726+44.11 P.I.

"O" 729+09.39 P.T. Bk.*
"L" 729+10.47 P.O.T. Ahd.

730~

N29°55'57"W

~401.66'

Existing Buried RCA Cable

Existing R/W

735~

740~

NOTE TO USERS 6-79 SEC 3070