

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	1	50

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Typical Section & Misc. Tables
3	Estimate of quantities
4	General Notes & Details
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7	Right-of-Way Monument Summary
8	Materials Site Sheet
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28-29	Drainage Details
30	Tourist Turnout Details
31-47	Bridge Sheets

The following standard drawings apply to this project.
D-1, M-1, M-3, R-1, R-3, R-8, T-1, T-11, T-15 and T-20.

DESIGN DESIGNATION

ADT (1961) = 15
ADT (1981) = 30
DHV = 5
D = 35 %
T = 5 %
V = 35 MPH.

PROJECT SUMMARY

WIDTH OF SUBGRADE	24'
LENGTH OF GRADING	54,214.94' = 10.268 Mi.
LENGTH OF BRIDGE	81.08' = 0.015 Mi.
LENGTH OF PROJECT	54,296.02' = 10.283 Mi.

AS ADVERTISED

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED
W.C. Harrison Date 4/21/67
COMMISSIONER OF HIGHWAYS

STATE OF ALASKA DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT

As Built

S-0924 (4)

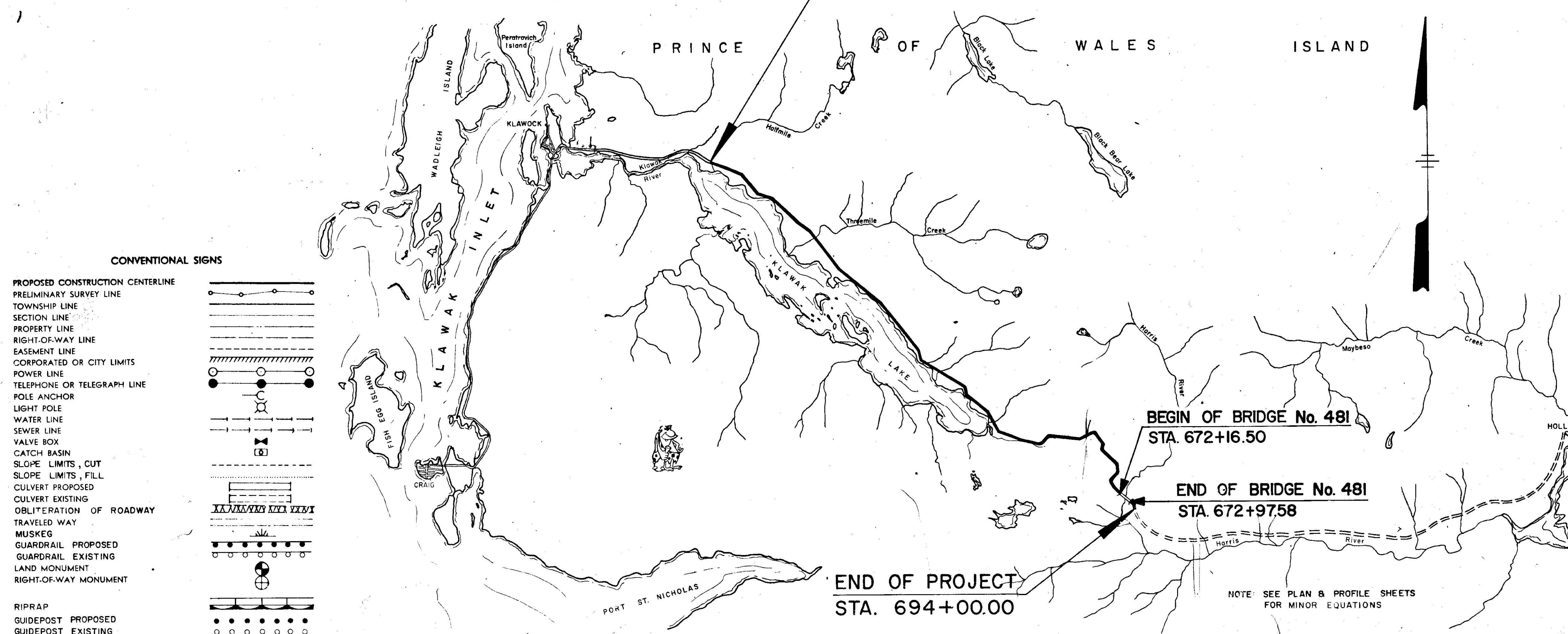
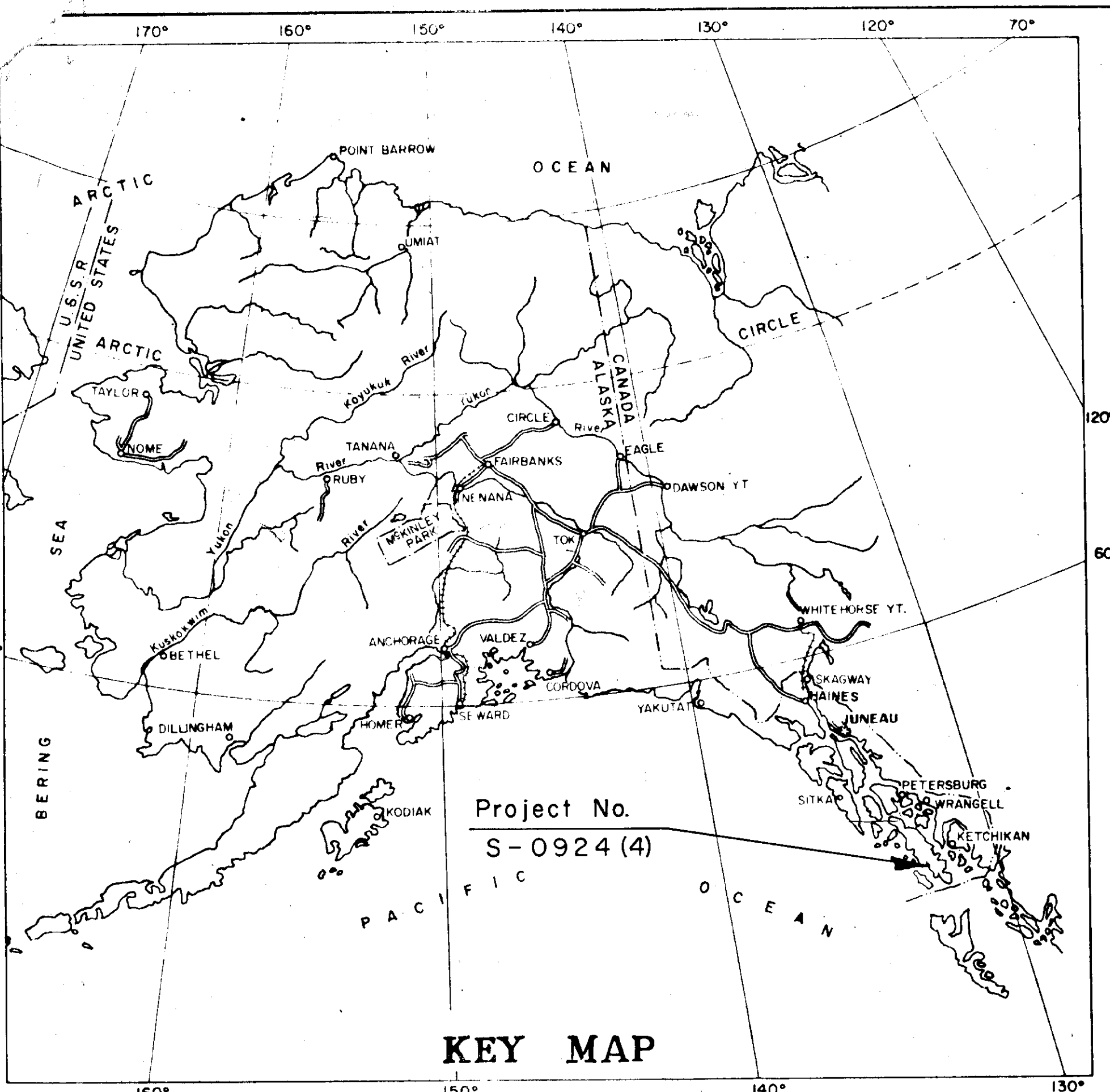
HALFMILE CREEK TO HARRIS RIVER
GRADING, DRAINAGE, AND BRIDGE

BURGESS CONST. CO.

Wyckoff 1967 #8, McGroth 1969 - const. 9-1-67 to 10-2-69

BEGINNING OF PROJECT

STA. 151+23.60

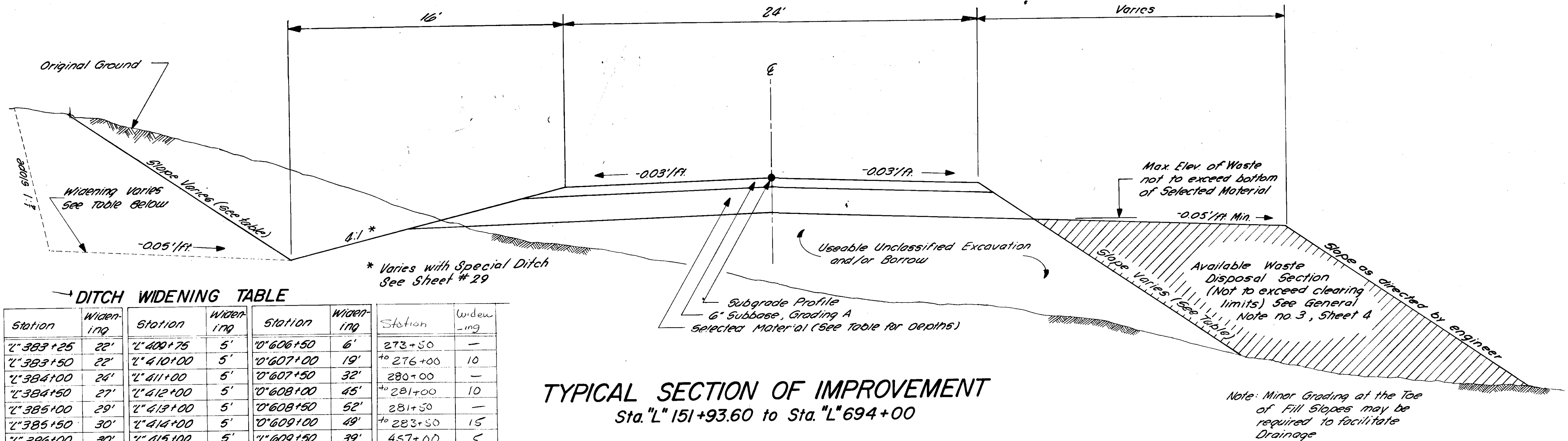


CONVENTIONAL SIGNS

PROPOSED CONSTRUCTION CENTERLINE	
PRELIMINARY SURVEY LINE	
TOWNSHIP LINE	
SECTION LINE	
PROPERTY LINE	
RIGHT-OF-WAY LINE	
EASEMENT LINE	
CORPORATED OR CITY LIMITS	
POWER LINE	
TELEPHONE OR TELEGRAPH LINE	
POLE ANCHOR	
LIGHT POLE	
WATER LINE	
SEWER LINE	
VALVE BOX	
CATCH BASIN	
SLOPE LIMITS, CUT	
SLOPE LIMITS, FILL	
CULVERT PROPOSED	
CULVERT EXISTING	
OBLITERATION OF ROADWAY	
TRAVELED WAY	
MUSKEG	
GUARDRAIL PROPOSED	
GUARDRAIL EXISTING	
LAND MONUMENT	
RIGHT-OF-WAY MONUMENT	
RIPRAP	
GUIDEPOST PROPOSED	
GUIDEPOST EXISTING	

NOTE: SEE PLAN & PROFILE SHEETS
FOR MINOR EQUATIONS

TYPICAL SECTION & MISC. TABLES



DITCH WIDENING TABLE

Station	Widen- ing	Station	Widen- ing	Station	Widen- ing	Station	Widen- ing
"L" 383+25	22'	"L" 400+75	5'	"O" 606+50	6'	273+50	—
"L" 383+50	22'	"L" 410+00	5'	"O" 607+00	19'	+0 276+00	10
"L" 384+00	24'	"L" 411+00	5'	"O" 607+50	32'	280+00	—
"L" 384+50	27'	"L" 412+00	5'	"O" 608+00	45'	+0 281+00	10
"L" 385+00	29'	"L" 413+00	5'	"O" 608+50	52'	281+50	—
"L" 385+50	30'	"L" 414+00	5'	"O" 609+00	49'	+0 283+50	15
"L" 386+00	30'	"L" 415+00	5'	"L" 609+50	39'	457+00	5
"L" 386+50	28'	"L" 416+00	5'	"L" 610+00	28'	457+50	8
"L" 387+00	28'	"L" 417+00	5'	"L" 610+50	18'	458+00	8
"L" 387+50	27'	"L" 418+00	5'	"L" 611+00	8'	458+50	10

SLOPE TABLE

Station	Height of Fill		
	Under 5	5-10	Over 10
0°151+9360			
	3'1	2'1	1 1/2'1
2°694+00			

Station	Height of Cut		
	Under 5	5-10	Over 10
0°151+2360			
	2'1	2'1	1 1/2'1
2°322+00			
	2'1	3/4'1	1/4'1
2°330+00			
	2'1	2'1	1 1/2'1
2°408+50			
	2'1	3/4'1	1/4'1
2°418+50			
	2'1	2'1	1 1/2'1
2°467+00			
	2'1	3/4'1	1/4'1
2°500+00			
	2'1	2'1	1 1/2'1
2°611+00			
	2'1	3/4'1	1/4'1
2°627+00			
	2'1	2'1	1 1/2'1
2°698+00			

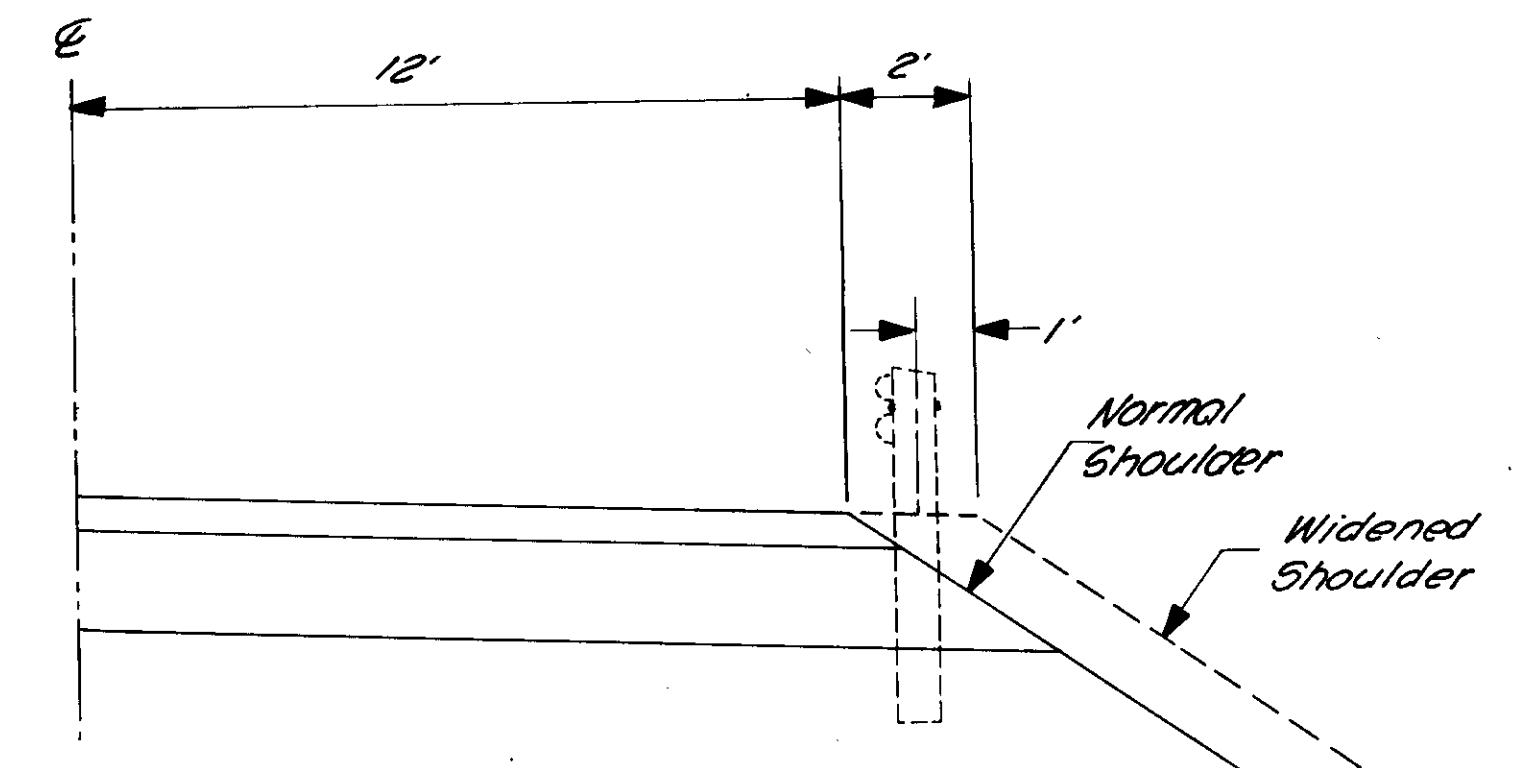
SELECT MATERIAL DEPTHS

Station	Depth	Station	Depth
0°151+23.60		2°379+80	
	12"		12"
0°156+90		2°417+20	
	18"		6"
2°215+00		2°442+50	
	12"		18"
2°238+50		2°462+00	
	18"		12"
2°300+50		2°508+25	
	12"		6"
2°327+00		2°542+00	
	6"		12"
2°360+25		2°567+50	
	18"		6"
2°368+20		2°603+25	
	6"		12"
2°379+80		2°665+00	
			6"
		2°694+00	

* Note backfill in post excavation area Sta "L" 668+00 to Sta. "L" 672+25 shall consist entirely of selected material.

GUARDRAIL TABLE

Station	Lt./Rt.	Length Lin. Ft.	Station	Lt./Rt.	Length Lin. Ft.
"L" 412 + 50.8 ₇₅		462.5	"L" 640 + 25		
Rt		309.0		Rt	160.0
"L" 415 + 305 417 + 62			"L" 641 + 75.7		
"L" 470 + 50 ✓		262.5	"L" 648 + 61.3 647 + 60		350.0
Rt		362.5	Lt.		200.0
"L" 474 + 076 473 + 112			"L" 650 + 56.9 58		
"L" 558 + 421 ₅₀		275.0	"L" 652 + 84.1 ₅₀		
Lt		125.0	Lt.		1250 ✓
"L" 559 + 657 561 + 55			"L" 654 + 06.3 5 + 10		
"L" 579 + 25 ✓		137.5	"L" 656 + 40 ₃		125.0
Lt		150.0	Lt.		150.0
"L" 580 + 75X			"L" 657 + 92.1 83 + 10		
"L" 601 + 35.94 602 + 25			"L" 667 + 00 ✓		127.5
Lt		75.0		Rt	187.5
"O" 603 + 071 ₅₀			"L" 668 + 051 57		
"L" 625 + 00 624 + 50		112.5			
Rt		100.0			
"L" 625 + 96.7 ₆₀					
			Total =		2,025 lin ft.



TYPICAL WIDENING FOR GUARDRAIL

STANDARD SIGNS

Sign No.	Station	Dist. to E		Type	Hgt.	Legend	
		Lt.	Rt.				
	1	"2+006+16	20'	W1-22	5'		✓
47+80	2	"2+420+77	20'	W1-2R	5'		✓
152+50	3	"2+889+50	20'	R2-1	5'	Speed Limit 35	
303+00	4	"2+896+00	20'	20 R2-1	5'	Speed Limit 35	
	5	"2+612+00	20'	W1-4R	5'		✓
	6	"2+632+73	20'	W1-4R	5'		✓
	7	"2+640+00	20'	W7-7	5'	Hill	✓
	8	"2+686+00	20'	R2-1	5'	Speed Limit 35	✓

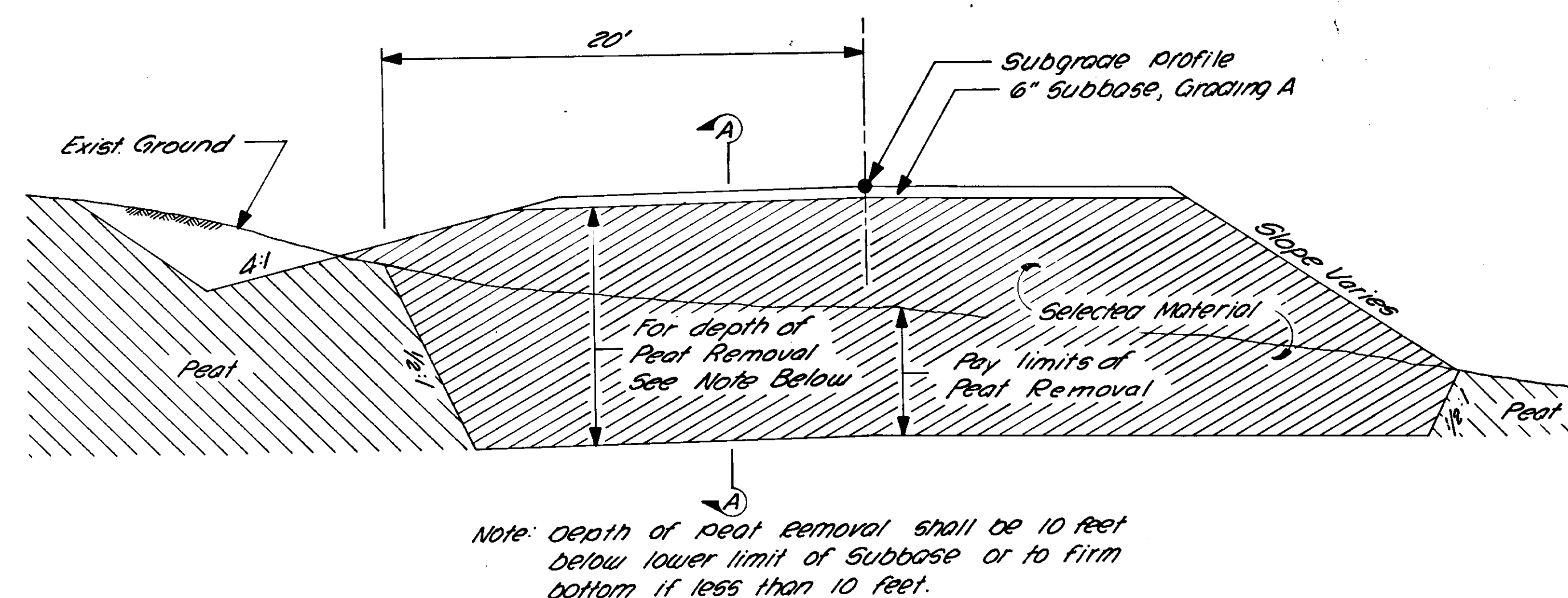
* Daylight Rt. Cut From:
"L" 322+00 to "L" 330+00
"L" 410+00 to "L" 414+50

** Widened Areas "L" 383+25 to
"L" 387+50 and "O" 606+50 to
"L" 611+00 shall have 2:1 slope
4.

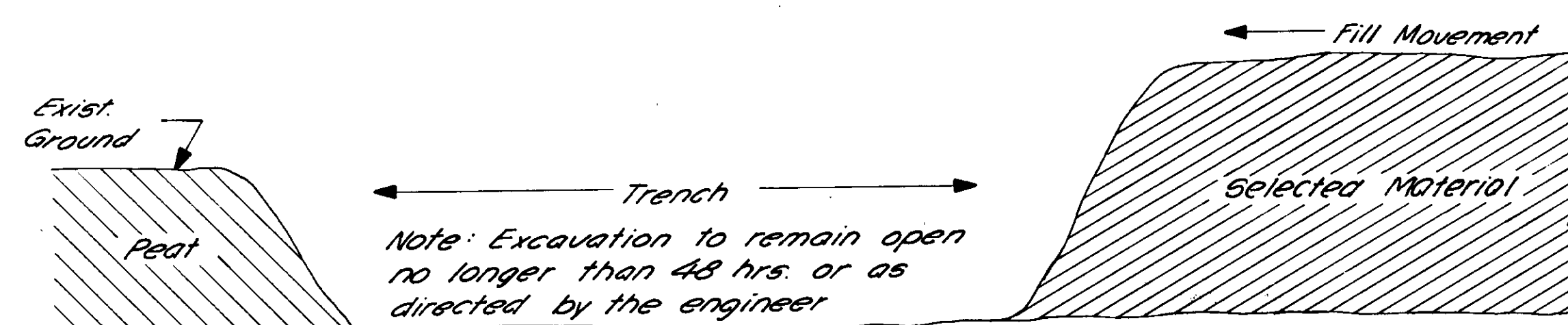
1	2	3	4	5
6	S-0924 (4)	1966	3	50

AS ADVERTISED

GENERAL NOTES & DETAILS

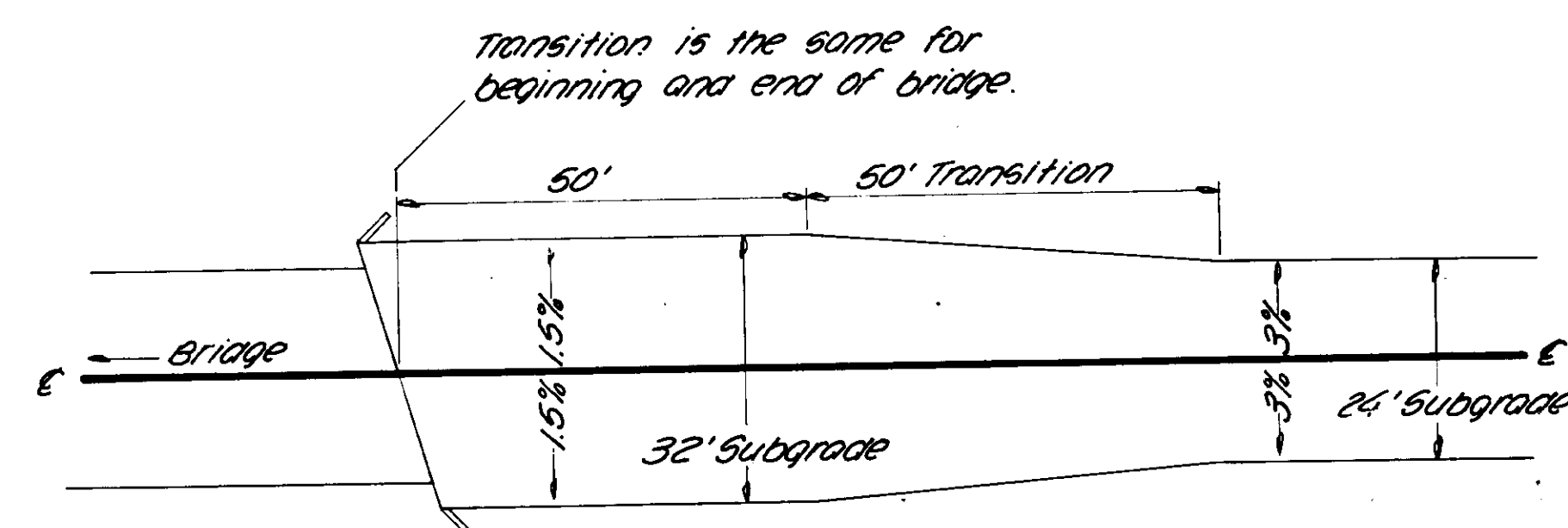


TRANSVERSE SECTION

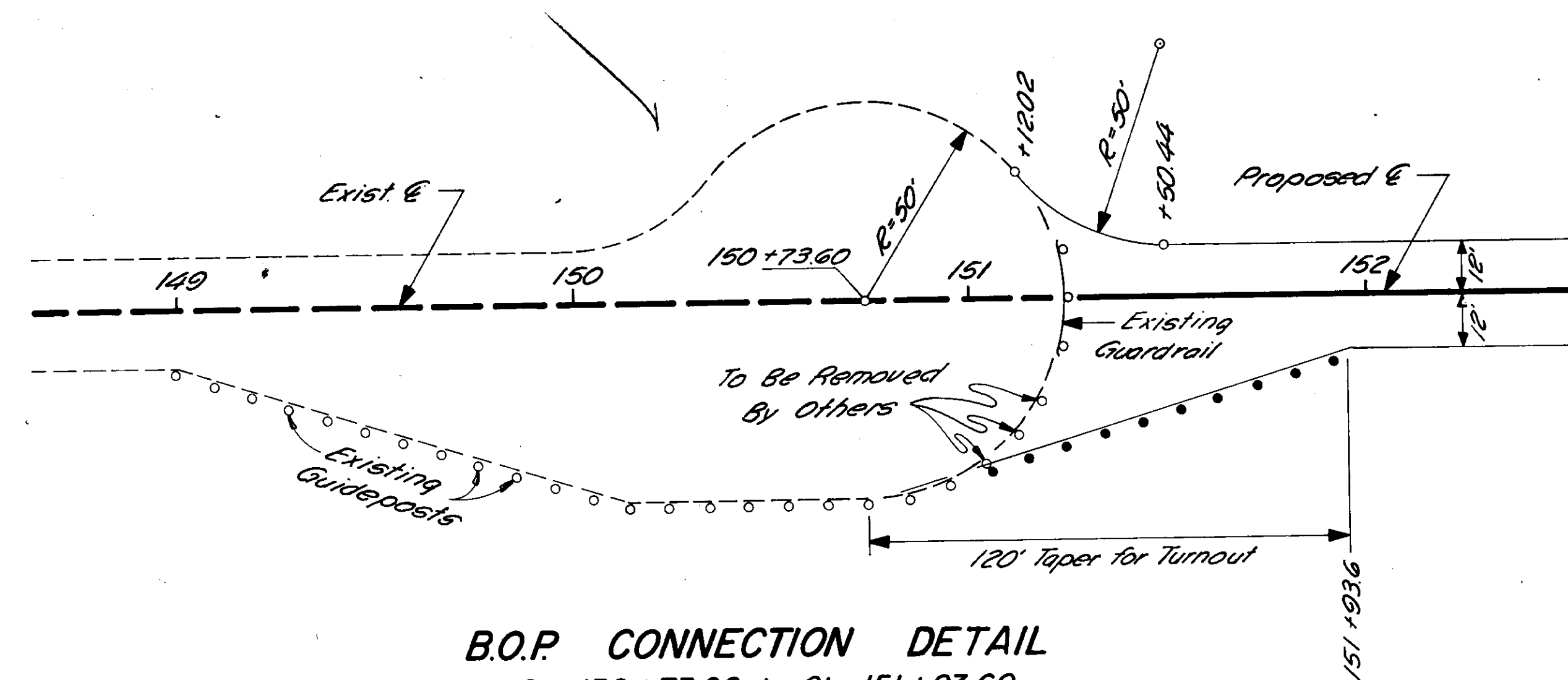


LONGITUDINAL SECTION A-A

PEAT REMOVAL DETAILS Sta. 668+00 to Sta. 672+25



ROADWAY TRANSITION
AT BRIDGE

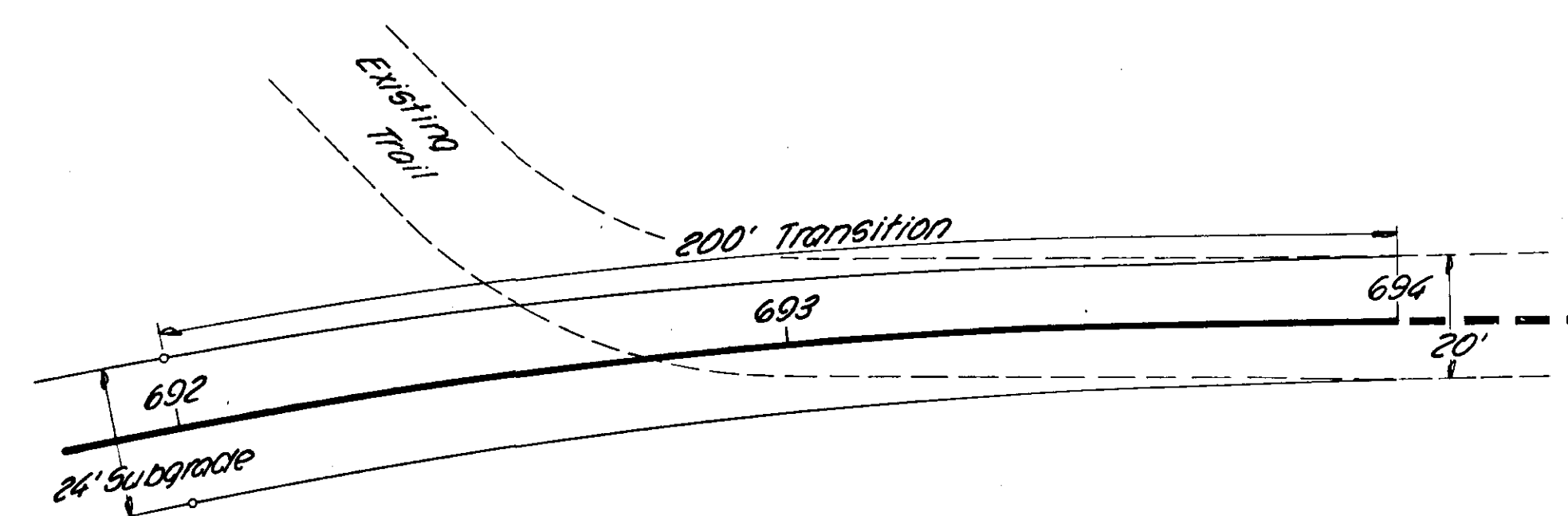


B.O.P. CONNECTION DETAIL
Sta. 150+73.60 to Sta. 151+93.60

GENERAL NOTES

- Grades and alignment shown on these plans are subject to minor revisions.
- Culvert lengths and locations are approximate only and are subject to minor revisions.
- All material removed from pit No. 1 shall be replaced to the original ground line with waste and/or surplus material. All other waste and/or surplus material encountered on this project will not be disposed of within one hundred (100) feet of Klawak Lake. There is no payment for overhaul of unclassified excavation designated as waste and/or surplus material by the engineer.
- The clearing limits shall be a neat orderly line approximately ten (10) feet beyond the slope limits or to the right-of-way line whichever is the lesser of the two.
- Where directed the excavation for culverts to be placed in embankment fill shall be made after the embankment has been completed to a minimum height of twelve (12) inches above the top of the culvert. The uppermost level of computation for structure excavation for these culverts will be twelve (12) inches above the top of the culvert.
- Corrugated Galvanized Metal Pipe or Corrugated Aluminum pipe may be furnished for pay item 603(26), Pipe Conduit, at the option of the Contractor.
- Rock may be encountered in the unclassified excavation.

AS ADVERTISED



E.O.P. CONNECTION DETAIL

CULVERT SUMMARY

See plan & profile sheets for changes.

Station	Structure Excavation													Remarks
	206(1)	603(2A)	603(2B)	603(2C)	603(2D)	603(2E)	603(31)	603(3J)	610(1)	610(2A)	610(2B)	613(2)	Design Fill Height	
	CV	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	FT	
"O" 151+87	24	56										2	2	Ditch Out
"O" 153+34	73									52			2	{ Ditch In & Out, Skew 5° Lt. Ahd.
"O" 153+34										52			2	{ Install at Max. Slope of 2%
"O" 154+41	0									54			2	{ Ditch Out, Skew 7° Rt. Ahd.
"O" 154+41										54			2	{ Install at Max. Slope of 2%
"O" 156+62	0	64										2	10	Ditch Out Skew 20° Rt. Ahd.
"L" 166+00	25	52										2	4	Skew 8° Lt. Ahd.
"L" 168+50	28	56										2	6	
"L" 170+45	29	62										2	5	Skew 10° Lt. Ahd.
"L" 171+95	29	62										2	4	Skew 25° Lt. Ahd.
"L" 175+45	26	52										2	5	
"L" 177+70	29	58										2	6	
"L" 179+70	28	58										2	5	Ditch Out, Skew 20° Lt. Ahd.
"L" 182+65	0		60									2	6	
"L" 185+65	0	50										2	4	
"L" 187+70	0	54										2	4	Ditch In. Skew 10° Lt. Ahd.
"L" 191+95	9	56										2	2	
"L" 201+33	0		64									2	6	Skew 5° Rt. Ahd.
"L" 203+04	27	54										2	8	
"L" 206+63	33	66										2	9	Ditch In & Out.
"L" 208+50	6	93										2	7	Skew 48° Lt. Ahd.
"L" 215+43	0		74									2	4	Skew 30° Rt. Ahd.
"L" 216+75	0	65										2	9	
"L" 218+00	0	60										2	9	
"L" 220+50	0	74										2	12	Skew 10° Rt. Ahd.
"L" 221+40	0	102		0								2	12	Constr. Ditch Block at Inlet. Skew 45° Lt. Ahd.
"L" 223+00	17		64									2	3	Skew 30° Lt. Ahd.
"L" 228+95	0	62										2	6	
"L" 230+10	2			58								2	5	Ditch In. Constr. Ditch Block at Inlet. Skew 5° Lt. Ahd.
"L" 234+80	6			56								2	3	Constr. Ditch Block at Inlet.
"L" 236+90	5												1	
"L" 237+90	20				60	64							2	Ditch In. Skew 20° Lt. Ahd.
"L" 240+00	16	80										2	2	Ditch Out. Skew 45° Lt. Ahd.
"L" 243+00	12	60										2	2	Skew 15° Lt. Ahd.
"L" 248+80	14	56										2	2	Ditch Out
"L" 251+60	0	62										2	6	Skew 25° Rt. Ahd.
"L" 254+80	5			72								2	2	Ditch Out
"L" 257+50	13	56										2	4	Ditch Out

Station	Structure Excavation													Remarks
	206(1)	603(2A)	603(2B)	603(2C)	603(2D)	603(2E)	603(31)	603(3J)	610(1)	610(2A)	610(2B)	613(2)	Design Fill Height	
	CV	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	FT	
"L" 262+00	26	58											2	2 Ditch Out
"L" 271+07												66	3	{ Ditch Out. Skew 17° 30' Lt. Ahd.
"L" 271+07	44											66	3	{ Install at Max. Slope of 0.5%.
"L" 272+25	0	60											2	7 Ditch Out
"L" 273+00	0	56											2	8
"L" 278+00	28	56											2	8
"L" 289+85	0		60										2	8 Ditch In. Constr. Ditch Block at Inlet.
"L" 293+05	14	58											2	5 Skew 25° Rt. Ahd.
"L" 294+90	0	58											2	6 Skew 20° Rt. Ahd.
"L" 299+26	30				56								2	5 Constr. Ditch Block at Inlet
"L" 301+35	0	60											2	8
"L" 303+50	16	56											2	5
"L" 310+30	32	74											2	2 Skew 40° Rt. Ahd.
"L" 311+00	22		60										2	5 Constr. Ditch Block at Inlet
"L" 312+10	19	62											2	6
"L" 314+50	11	58											2	5 Skew 10° Lt.
"L" 316+50	13	58											2	5
"L" 320+03	0	76											2	13 Ditch In
"L" 331+50	0	96											2	21
"L" 333+40	40						62						1	Ditch In & Out. Constr. Ditch Block at Inlet. Skew 20° Rt. Ahd.
"L" 336+00	0	80											2	15
"L" 339+50	47	82											2	13
"L" 342+50	30	58											2	6
"L" 346+91	0	70											2	12
"L" 347+60	15	76											2	12 Skew 15° Lt. Ahd.
"L" 351+20	30	66											2	10
"L" 352+30	10	58											2	7
"L" 355+35	6												2	4 Skew 15° Rt. Ahd.
"L" 356+00	3	60				50							2	5 Skew 15° Rt. Ahd.
"L" 358+05	0	86											2	14 Skew 25° Lt. Ahd.
"L" 359+93	5	58											2	6 Skew 20° Lt. Ahd.
"L" 361+58	11	62											2	6 Skew 10° Rt. Ahd.
"L" 368+90	3									60			2.5	Constr. Ditch Block at Inlet
"L" 374+05	0	74											2	10 Skew 35° Lt. Ahd.
"L" 375+75	46												1	Constr. Ditch Block at Inlet

AS ADVERTISED

CULVERT SUMMARY

See plan & profile sheets for changes

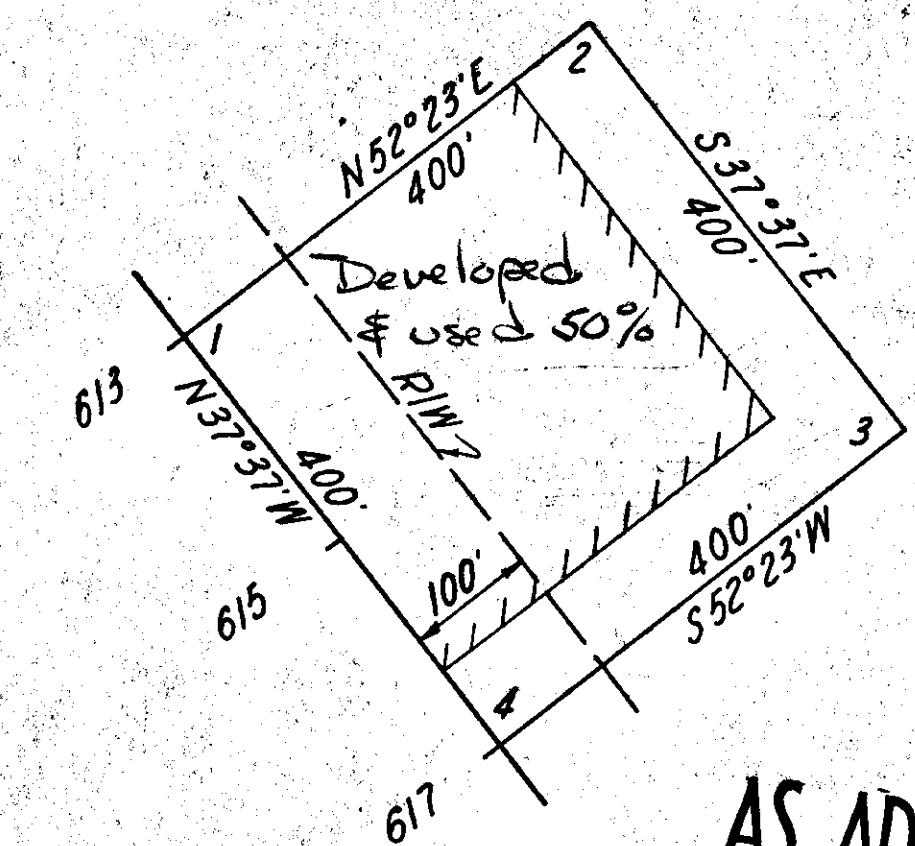
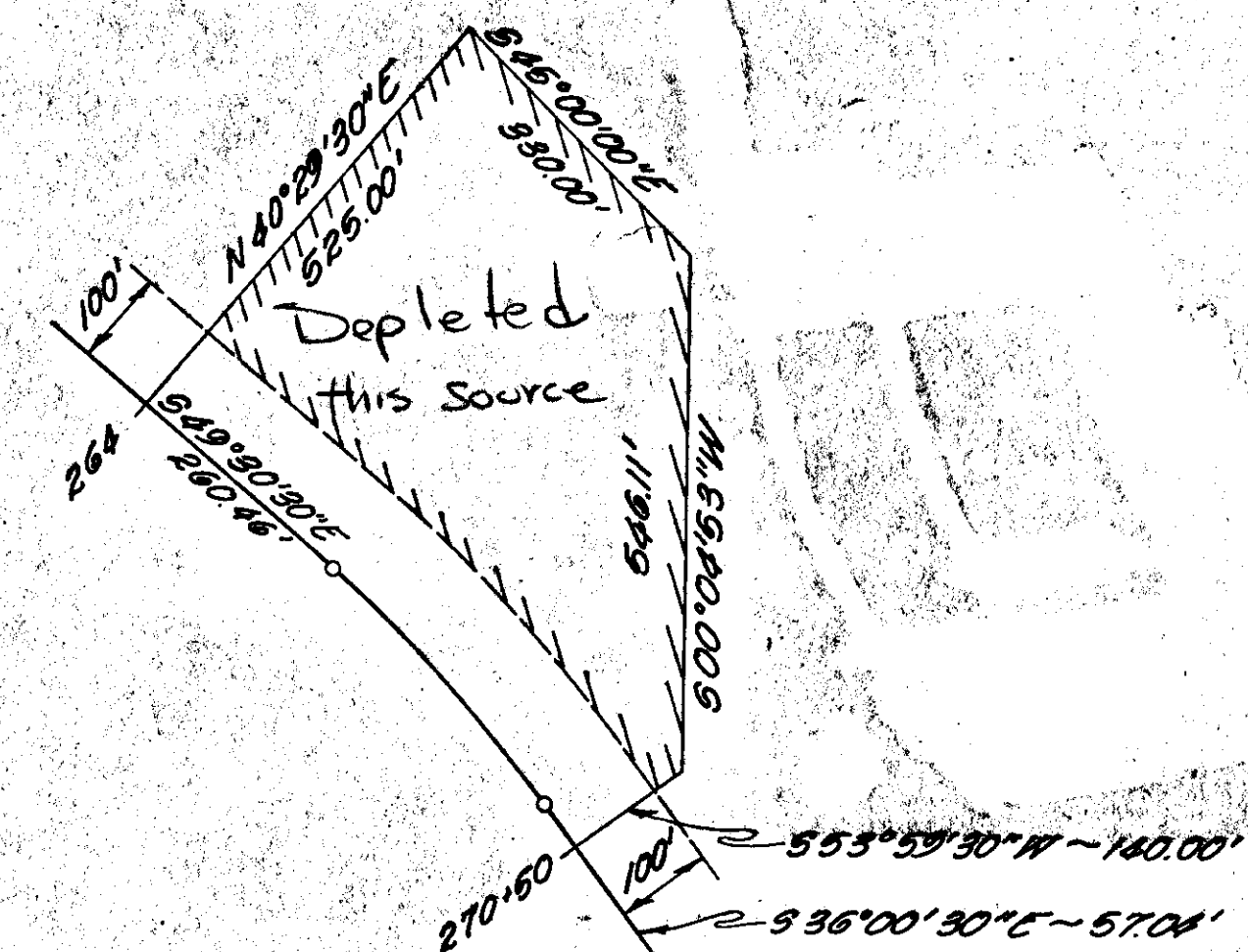
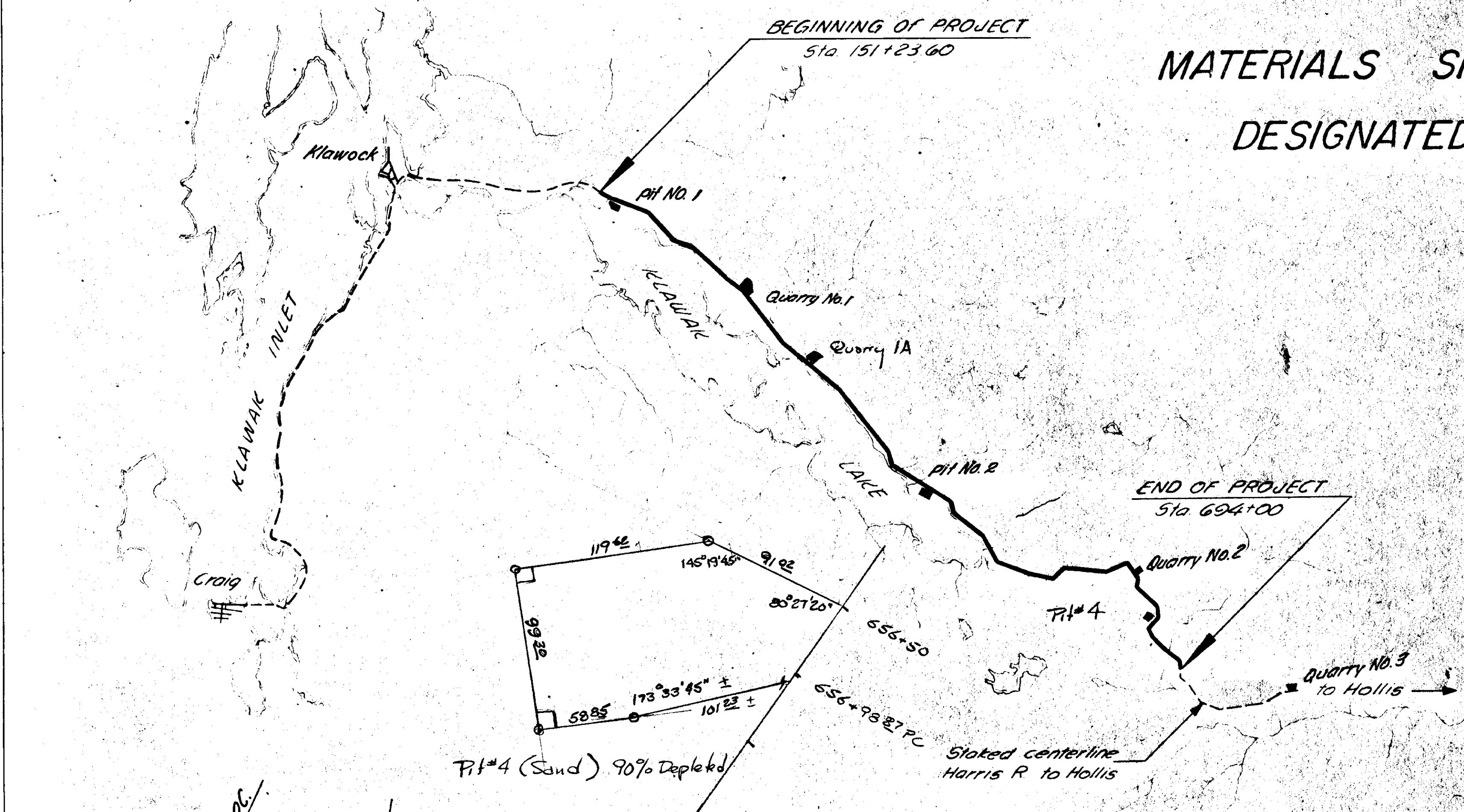
Station															Remarks
	Structure Excavation	24" Pipe Conduit	30" Pipe Conduit	36" Pipe Conduit	48" Pipe Conduit	48" Pipe Conduit	60" Pipe Conduit	65" Span 40" Rise Pipe C.M.P. Arch	72" Span 48" Rise Pipe C.M.P. Arch	Structural Plate Pipe 96" Dia. 10 Ga.	Structural Plate Pipe Arch 9'-6" Span 6'-5" Rise 8 Ga.	Structural Plate Pipe Arch 15'-4" Span 9'-5" Rise 5 Ga.	Culvert Marker Posts	Design Fill Height	
	C.V.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA	FT.	
"L" 379+50	25	60											2	8	Skew 10° Lt. Ahd.
"L" 380+80	15	62											2	3	Ditch Out. Skew 20° Lt. Ahd.
"L" 384+50	21	56											2	3	Ditch Out.
"L" 388+85	29	64											2	2	Skew 30° Rt. Ahd.
"L" 389+95	0			72									2	13	
"L" 392+81	0		62										2	9	Ditch In
"L" 395+30	32				58								2	2	Ditch Out. Constr. Ditch Block at Inlet. Skew 10° Lt. Ahd.
"L" 401+90	9	52											2	4	
"L" 403+40	23	56											2	2	Ditch Out. Skew 5° Lt. Ahd.
"L" 406+90	24	70											2	11	
"L" 419+00	0						70							4	Skew 40° Lt. Ahd. Install at Max. Slope of 2.5%
"L" 423+71	20	68											2	10	
"L" 433+00	5	54											2	4	Ditch In
"L" 437+60	0									88				2	Skew 48° Lt. Ahd. Install at Max. Slope of 1.5%
"L" 446+45	3	62											2	6	Ditch In
"L" 450+34	0			62										9	Install at Max. Slope of 3%
"L" 463+50	0	70											2	13	
"L" 466+25	10				56									2	Skew 20° Rt. Ahd.
"L" 467+65	0	72											2	9	Skew 25° Rt. Ahd.
"L" 470+00	46	80											2	12	
"L" 483+50	0	68											2	9	
"L" 486+50	0	48											2	4	
"L" 497+40	234									80				5	Ditch In. Skew 35° Lt. Ahd. Install at Max. Slope 1.5%
"L" 501+25	24	50											2	5	Ditch Out
"L" 502+65	24	50											2	4	Ditch Out
"L" 506+00	3						56							3	Ditch In & Out
"L" 513+60	29	56											2	8	
"L" 517+50	32	62											2	10	
"L" 527+63	0													3	Ditch In To Max. Pipe Slope of 10%. Skew 39° Lt. Ahd.
"L" 529+75	0	50										84	2	3	Skew 10° Lt. Ahd.
"L" 534+00	46							58						1	Constr. Ditch Block at Inlet. Ditch Out.
"L" 541+00	22	56											2	2	Ditch Out
"L" 545+10	27	62											2	2	Ditch Out. Skew 25° Rt. Ahd.
"L" 550+15	27	60											2	7	Skew 10° Rt. Ahd.
"L" 552+60	20	56											2	3	
"L" 553+30	20	56											2	2	Ditch Out. Constr. Ditch Block at Inlet
"L" 553+80	20	58											2	3	Ditch Out. Constr. Ditch Block at Inlet
"L" 555+70	19	58											2	2	Constr. Ditch Block at Inlet
"L" 556+40		56													
"L" 557+80		0	86												
"L" 560+60		0	78												
"L" 567+75	32	64													
"L" 569+75	38	76													
"L" 572+50	28	58													
"L" 578+50	33	64													
"L" 584+20	32	64													
"L" 588+80	26	60													
"L" 591+40	0														
"L" 593+35	9														
"L" 595+00	46	84													
"L" 598+80	28	62													
"L" 603+60	27	56													
"L" 611+35	0	60													
"L" 615+50	22	64													
"L" 616+14	7	58													
"L" 619+25	71														
"L" 625+70	0	84													
"L" 627+05	0	70													
"L" 628+75	0	60													
"L" 633+75	24	54													
"L" 636+30	30	60													
"L" 639+80	31	56													
"L" 647+40	28	56													
"L" 653+37	0														
"L" 657+90	1	66													
"L" 659+50	20	54													
"L" 661+75	23	60													
"L" 664+60	26	56													
"L" 667+75	0	80													
"L" 678+55	0														
"L" 680+50	0	58													
"L" 685+75	18	54													
"L" 688+50	17	98													
"L" 690+00	0	60													
"L" 691+00	0	50													
GRAND TOTAL	2,997	6,979	444	534	226	250	126	178	60	188	212	216	248		GRAND TOTAL

SUMMARY OF STANDARD CONCRETE RIGHT-OF-WAY MONUMENTS														
STATION	DIST FROM C IN FT.		NO.	REMARKS	STATION	DIST FROM C IN FT.		NO.	REMARKS	STATION	DIST FROM C IN FT.		NO.	REMARKS
	LEFT	RIGHT				LEFT	RIGHT				LEFT	RIGHT		
0+753+75.51	100	100	2	P.C.						0+160+65.47	100	100	2	P.T.
0+755+51.30	100	100	2	P.T.						0+165+84.57	100	100	2	P.C.
0+758+39.99	100	100	2	P.C.	2+468+68.11	100	100	2	P.T.	0+169+57.90 Bk=				
2+177+28.13	100	100	2	P.C.	2+471+34.83	100		1	P.C.	2+169+57.90 Ah	100	100	2	P.T.
2+184+02.71	100	100	2	P.T.	2+477+53.68	100	100	2	P.T.					
2+190+00.00	100	100	2	P.O.T.	2+485+00.00	100	100	2	P.O.T.					
2+197+62.43	100	100	2	P.C.	2+491+44.89	100		1	P.C.					
2+207+36.87	100	100	2	P.T.	2+496+84.89	100	100	2	P.T.					
2+220+00.00	100	100	2	P.O.T.	2+506+67.77	100	100	2	P.C.					
2+220+00.00	150		1	R/W Offset	2+516+42.77	100	100	2	P.T.					
2+223+73.29	150	100	2	P.C.	2+526+00.00	100	100	2	P.O.T.					
2+225+00.00	150		1	P.O.C.	2+536+06.69	100	100	2	P.C.					
2+225+00.00	100		1	R/W Offset	2+539+06.69	100	100	2	P.T.					
2+235+38.29	100	100	2	P.T.	2+550+39.50	100	100	2	P.C.					
2+245+00.00	100	100	2	P.O.T.	2+556+49.50	100	100	2	P.T.					
2+253+74.92	100	100	2	P.C.	2+558+47.10	100	100	2	P.C.					
2+256+24.92	100	100	2	P.T.										
2+266+60.46	100	100	2	P.C.										
2+269+97.96 Bk=	269+97.96 Ah													
2+280+00.00	100	100	2	P.T.	2+569+52.10	100	100	2	P.T.					
2+290+00.00	100	100	2	P.O.T.	2+580+00.00	100	100	2	P.O.T.					
2+300+00.00	100	100	2	P.O.T.	2+588+23.19	100	100	2	P.C.					
2+310+00.00	100	100	2	P.O.T.	2+593+87.77	100	100	2	P.T.					
2+314+34.36	100	100	2	P.C.	2+601+35.94	100	100	2	P.C.					
2+319+39.36	100	100	2	P.T.	2+604+24.62	100	100	2	P.T.					
					2+617+49.16	100	100	2	P.C.					
					2+621+15.83	100	100	2	P.T.					
2+328+31.18	100	100	2	P.C.	2+623+16.15	100	100	2	P.C.					
2+330+68.68	100	100	2	P.T.	2+627+23.15	100	100	2	P.T.					
2+337+00.00	100	100	2	P.O.T.	2+635+00.00	100	100	2	P.O.T.					
2+337+00.00	150		1	R/W Offset	2+642+22.68	100	100	2	P.C.					
2+347+00.00	150		1	P.T.	2+646+71.01	100	100	2	P.T.					
2+347+00.00	100		1	R/W Offset	2+648+61.32	100	100	2	P.C.					
2+349+97.79	100	100	2	P.C.	2+654+06.32	100	100	2	P.T.					
2+361+97.79	100	100	2	P.T.	2+656+98.87	100	100	2	P.C.					
2+370+00.00	100	100	2	P.O.T.	2+664+38.20	100	100	2	P.T.					
2+380+00.00	100	100	2	4 Point	2+665+96.33	100	100	2	P.C.	Total			159	
2+390+00.00	100	100	2	P.O.T.	2+668+79.11	100	100	2	P.T.				160	
2+396+35.29	100	100	2	P.C.	2+676+43.12	100	100	2	P.C.					
2+403+51.04	100	100	2	P.T.	2+678+76.45	100	100	2	P.T.					
2+411+65.10	100	100	2	P.C.	2+686+66.67	100	100	2	P.C.					
2+415+32.87 Bk=					2+693+66.21	100	100	2	P.T.					
2+415+27.19 Ah	100		1	P.T.										
2+423+42.51	100		1	P.C.										
2+428+90.29	100	100	2	P.T.										
2+440+00.00	100	100	2	P.O.T.										
2+450+00.00	100	100	2	P.O.T.										
2+458+71.28	100	100	2	P.C.										
														AS ADVERTISED

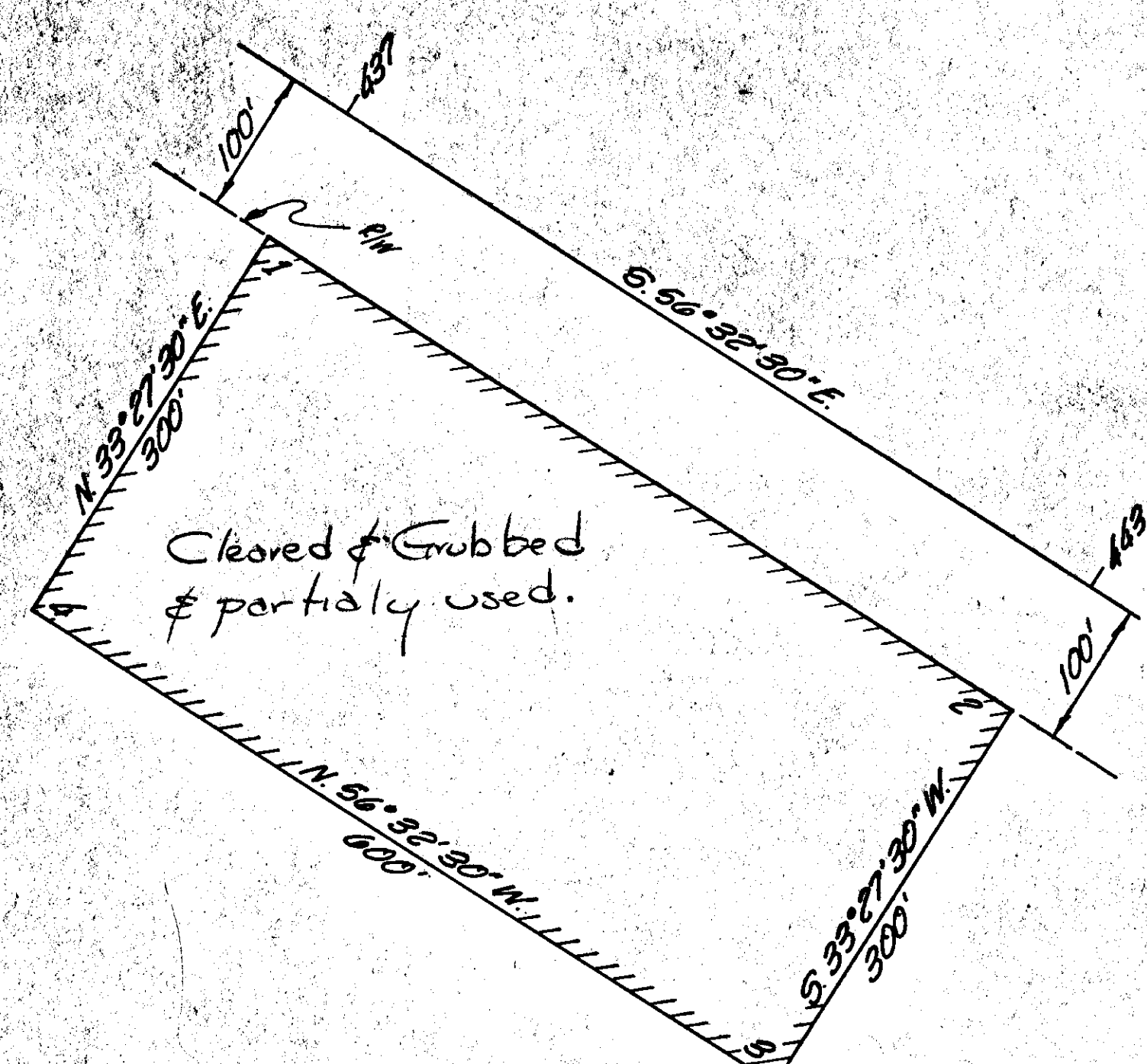
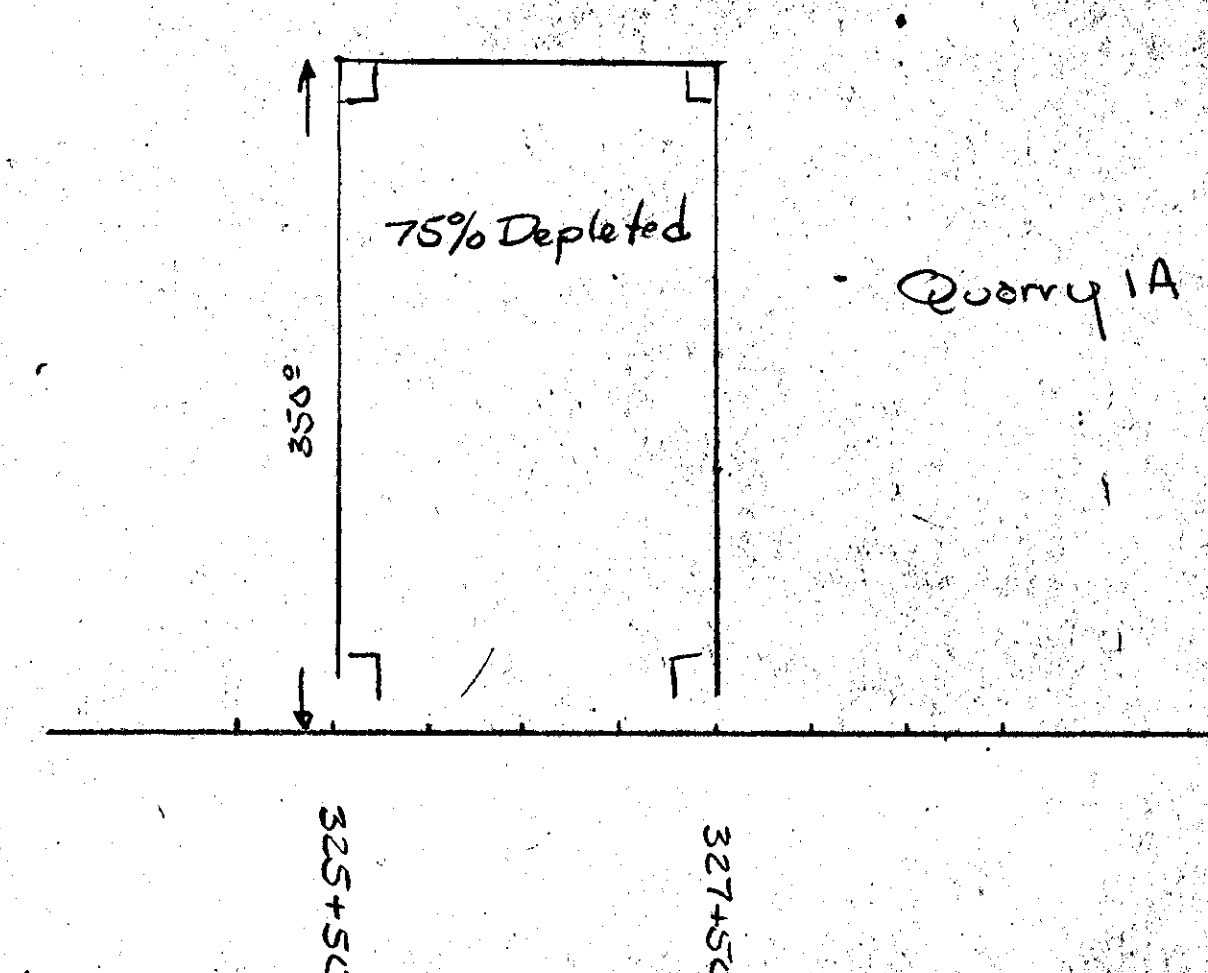
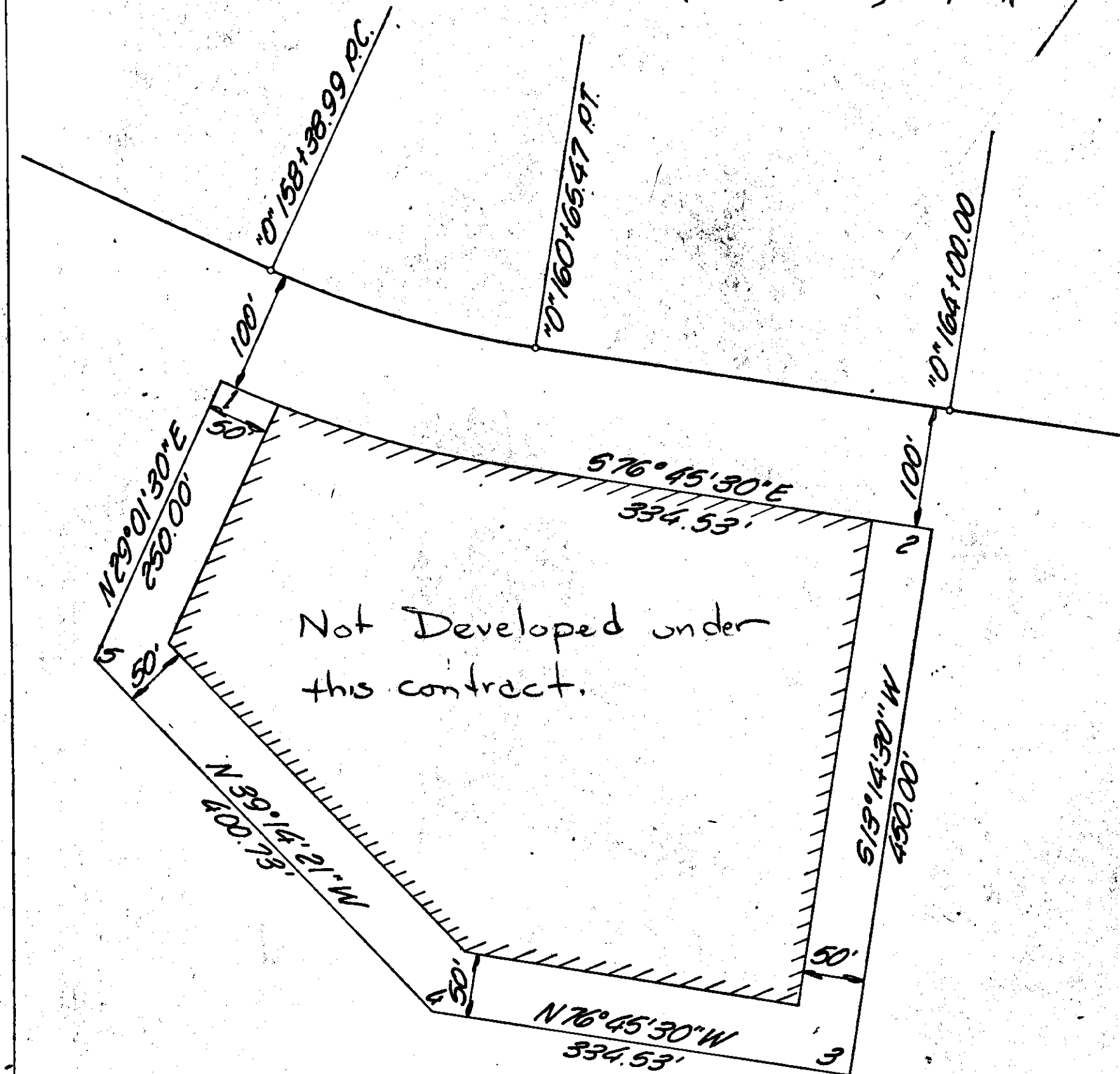
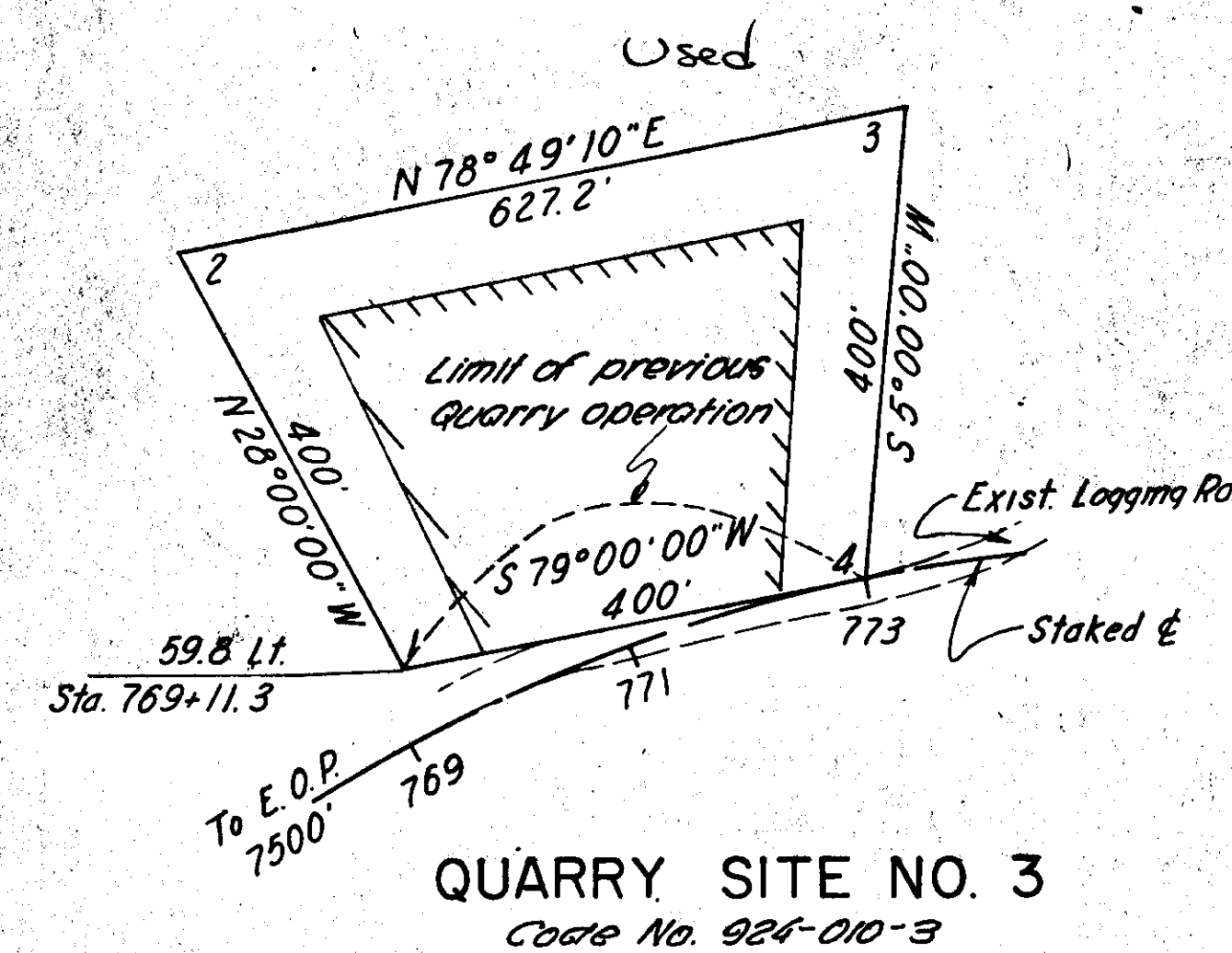
AS ADVERTISED

MATERIALS SITE LOCATIONS

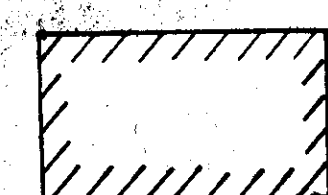
MATERIALS SITE LOCATIONS DESIGNATED SOURCES



AS ADVERTISED



LEGEND

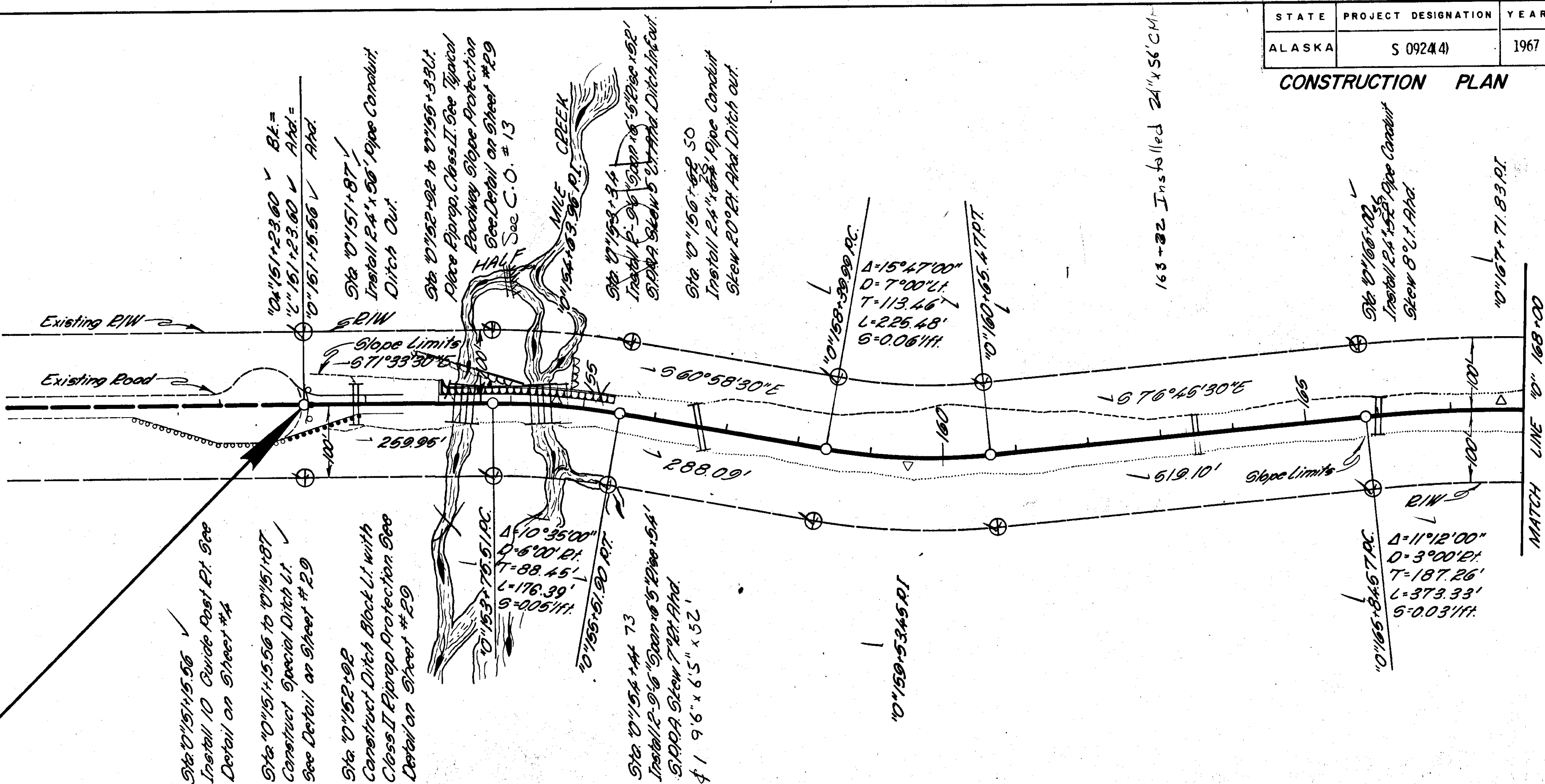


Proposed use area

NOTE:
A 50'-min. natural vegetation screen shall be left between the edge of roadway clearing and grubbing and the edge of pit clearing and grubbing.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0924(4)	1967	9	50

CONSTRUCTION PLAN



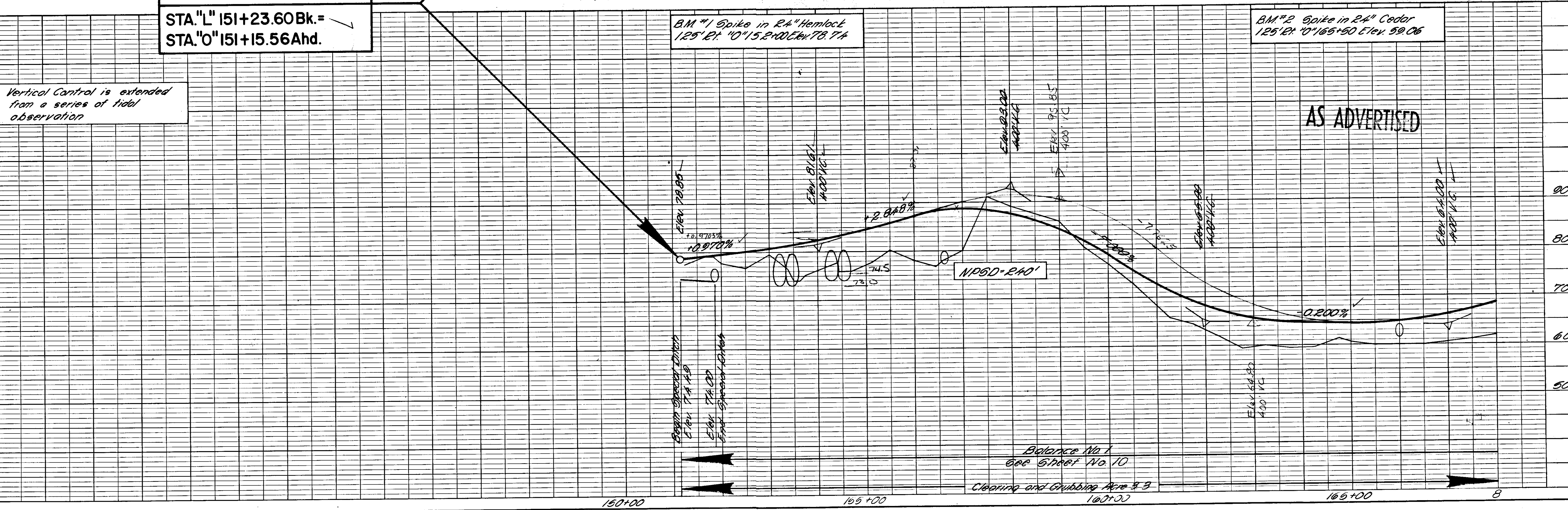
Horizontal Control is extended from a polaris observation

BEGINNING OF PROJECT
S-0924(4)
STA."L" 151+23.60Bk.=
STA."O" 151+15.56Ahd.

Vertical Control is extended from a series of tidal observation

BM #1 Spike in 24" Hemlock
125' Pt. "O" 151+23.60 Elev. 78.74

BM #2 Spike in 24" Cedar
125' Pt. "O" 151+50 Elev. 99.06

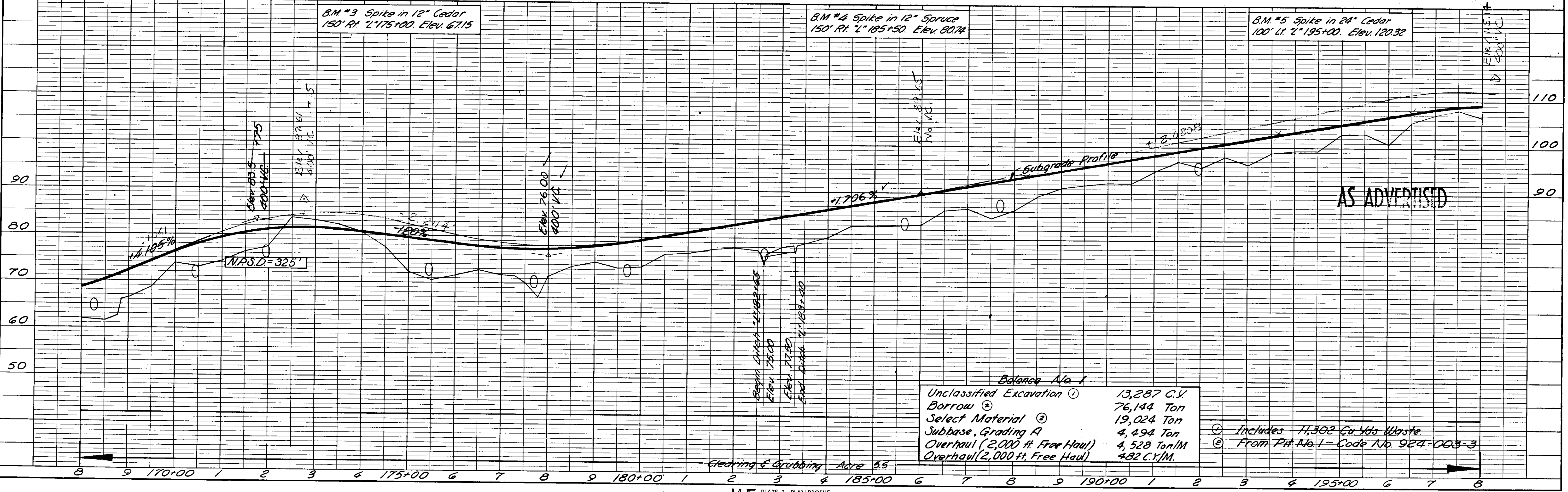
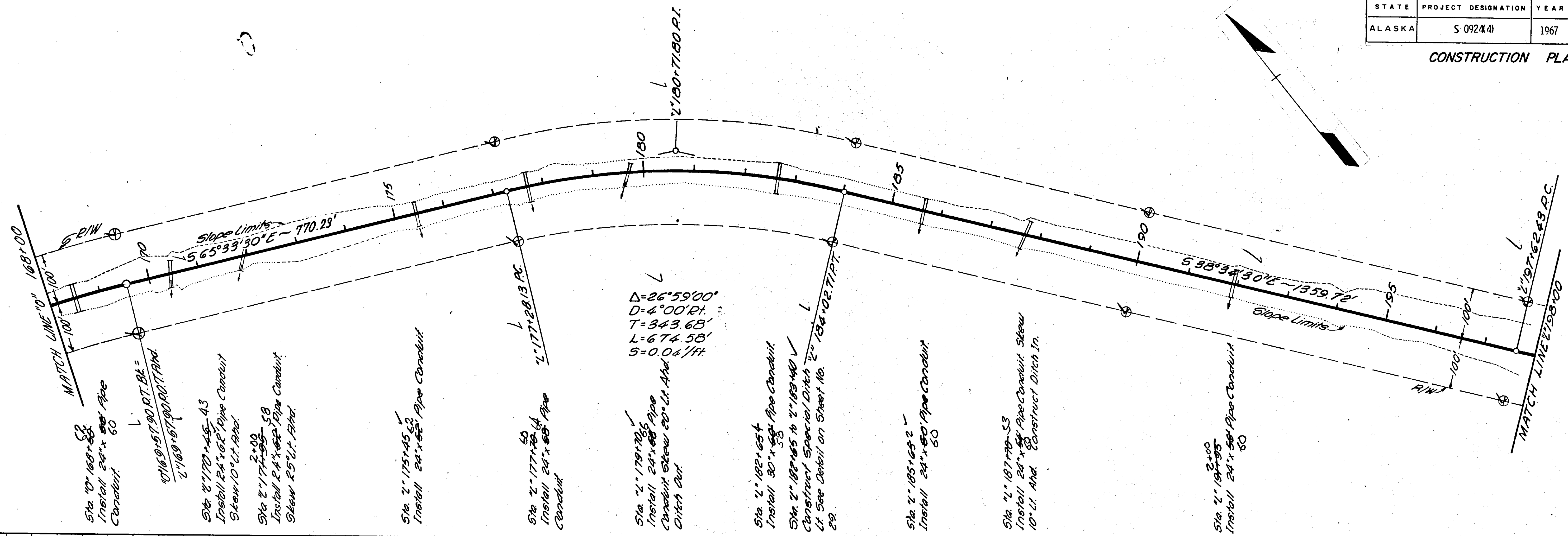


AS ADVERTISED

Balance No 1
See Sheet No 10

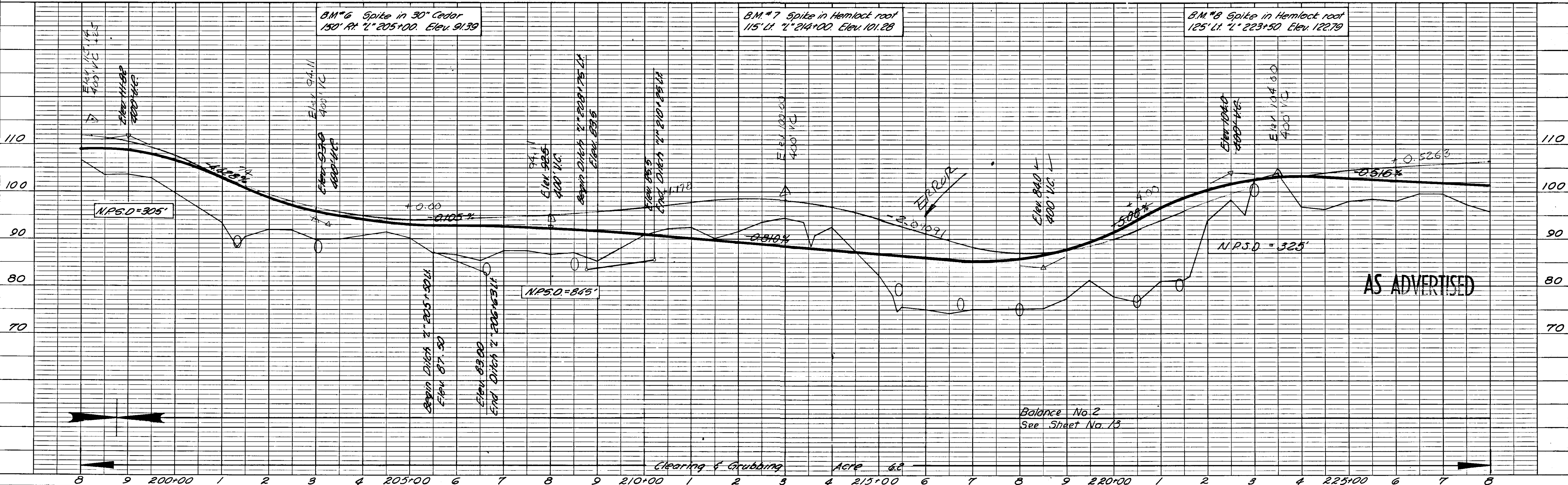
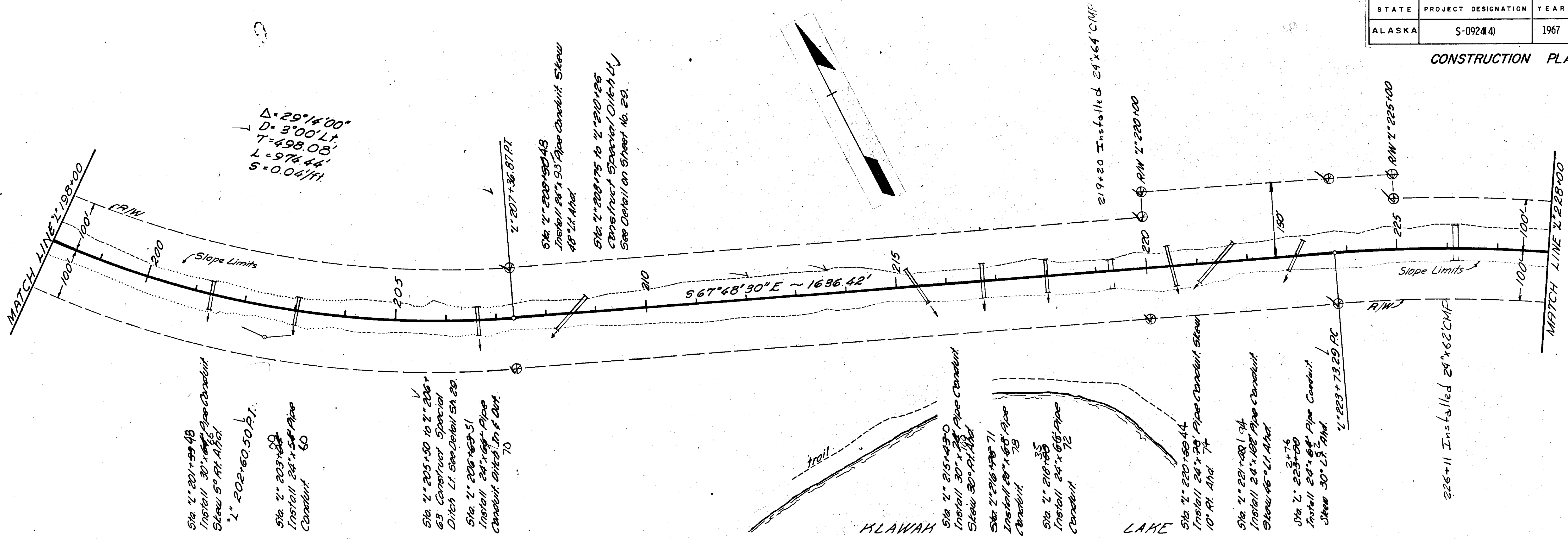
Clearing and Grubbing Apr 89

CONSTRUCTION PLAN



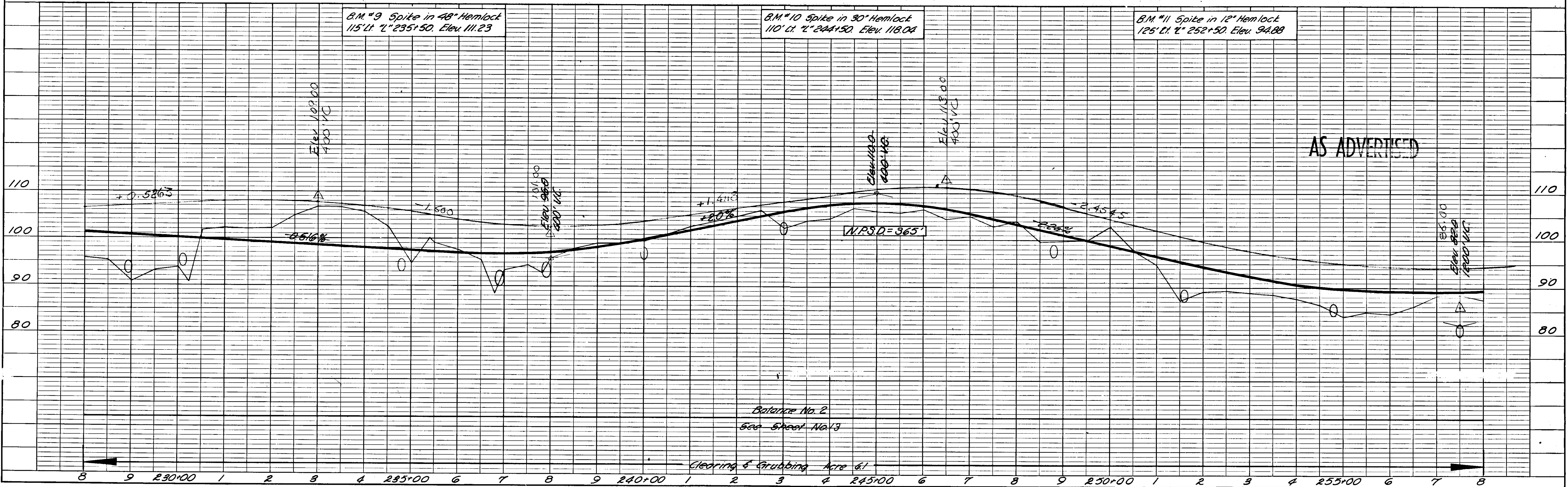
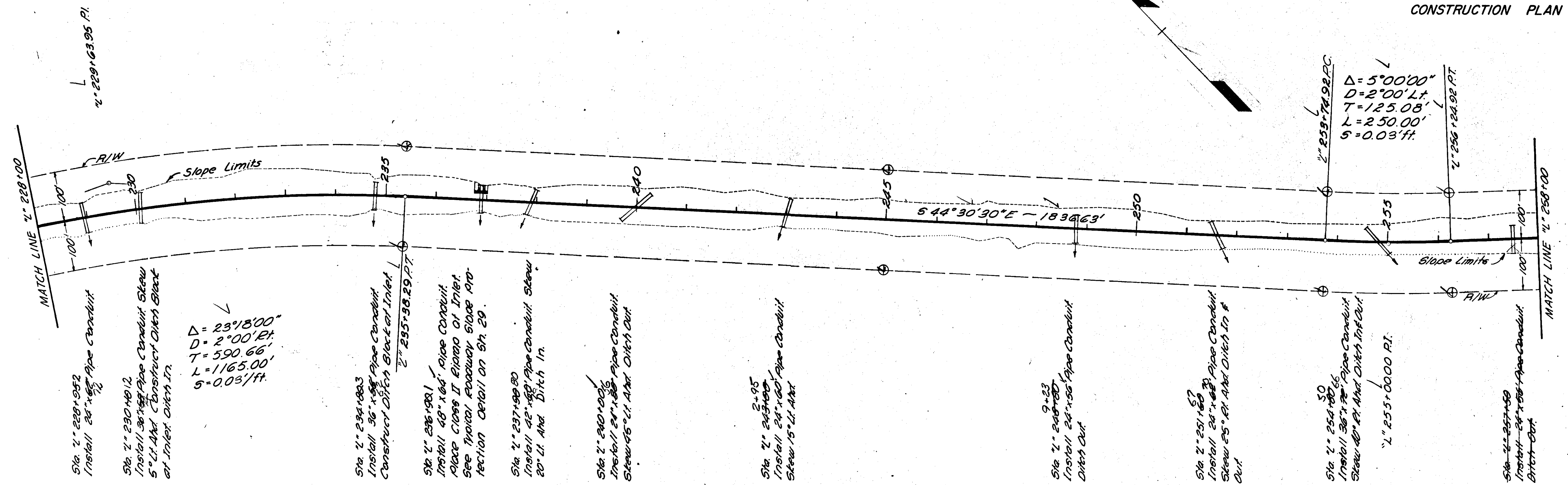
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-092(4)	1967	11	50

CONSTRUCTION PLAN



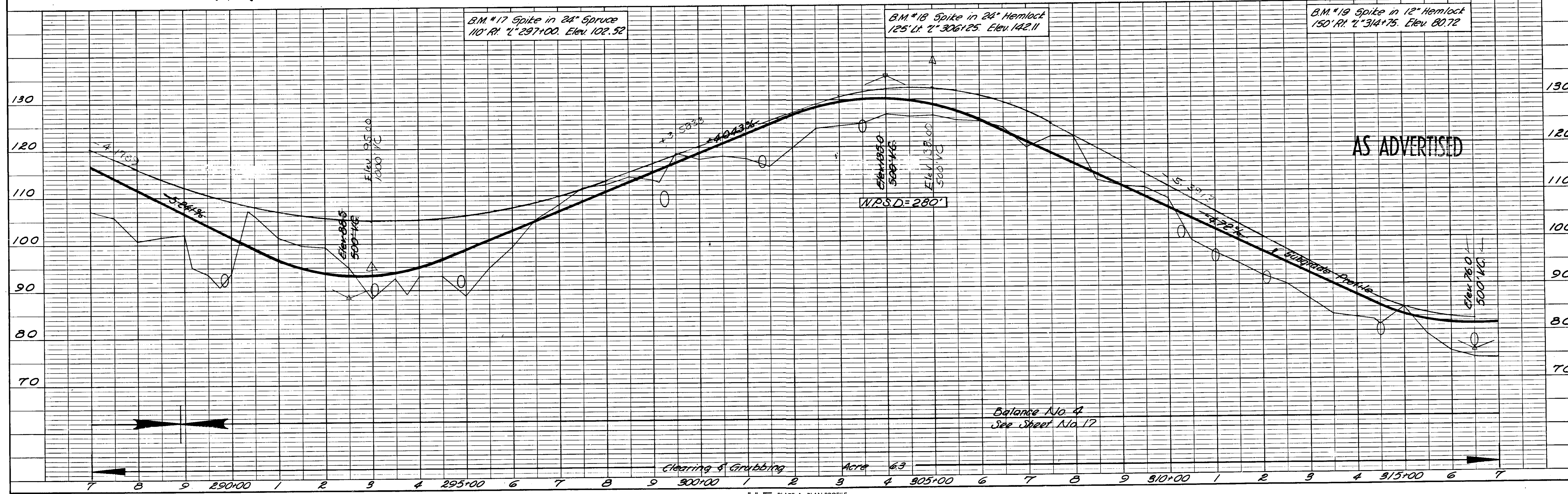
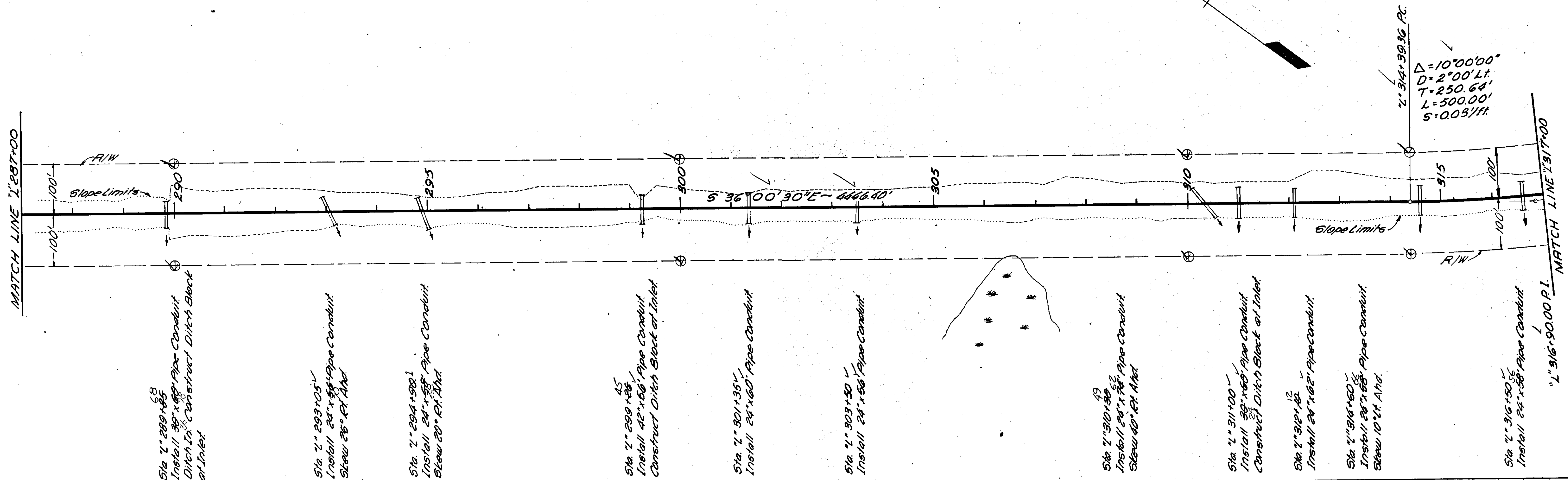
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	12	50

CONSTRUCTION PLAN



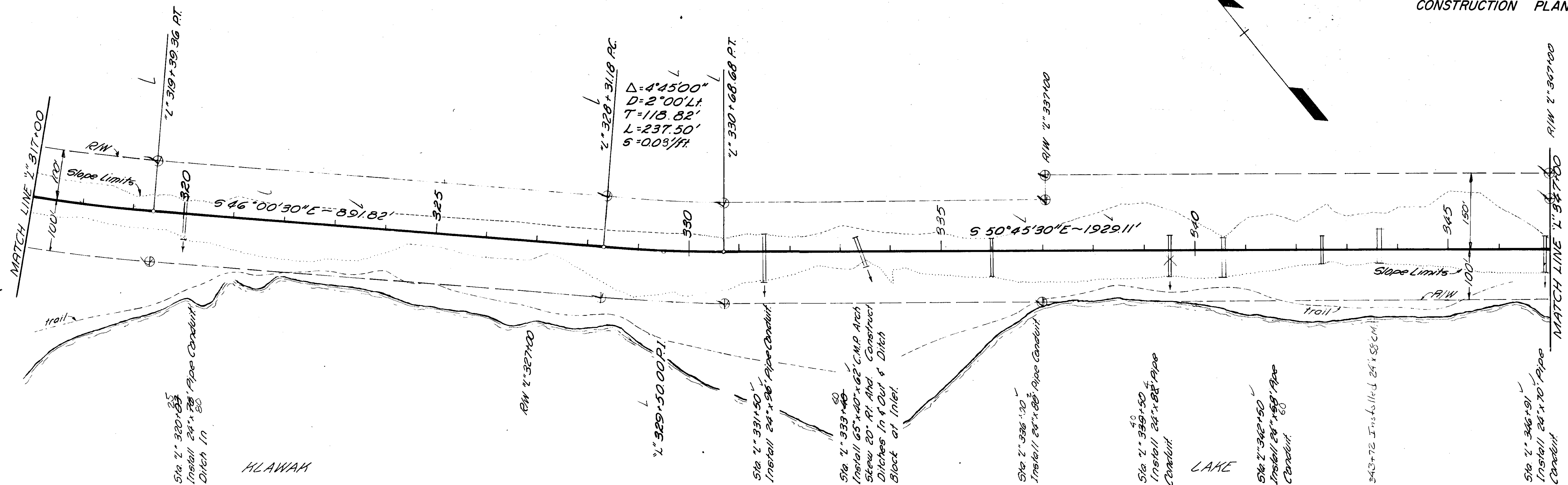
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	14	50

CONSTRUCTION PLAN



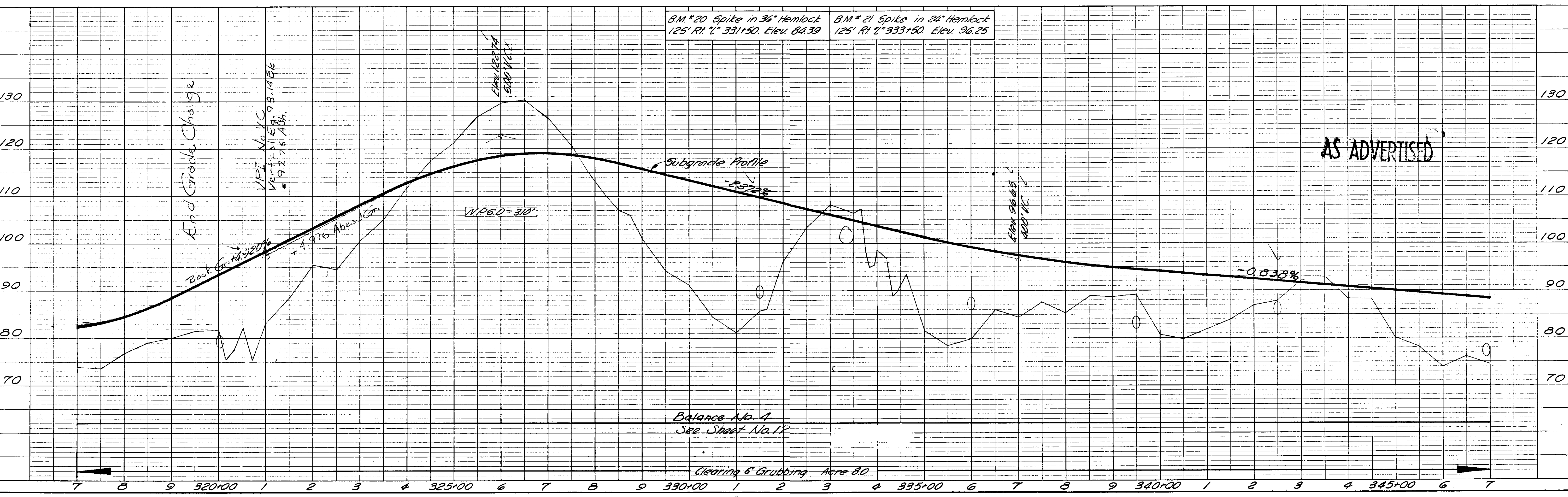
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0924(4)	1967	15	50

CONSTRUCTION PLAN



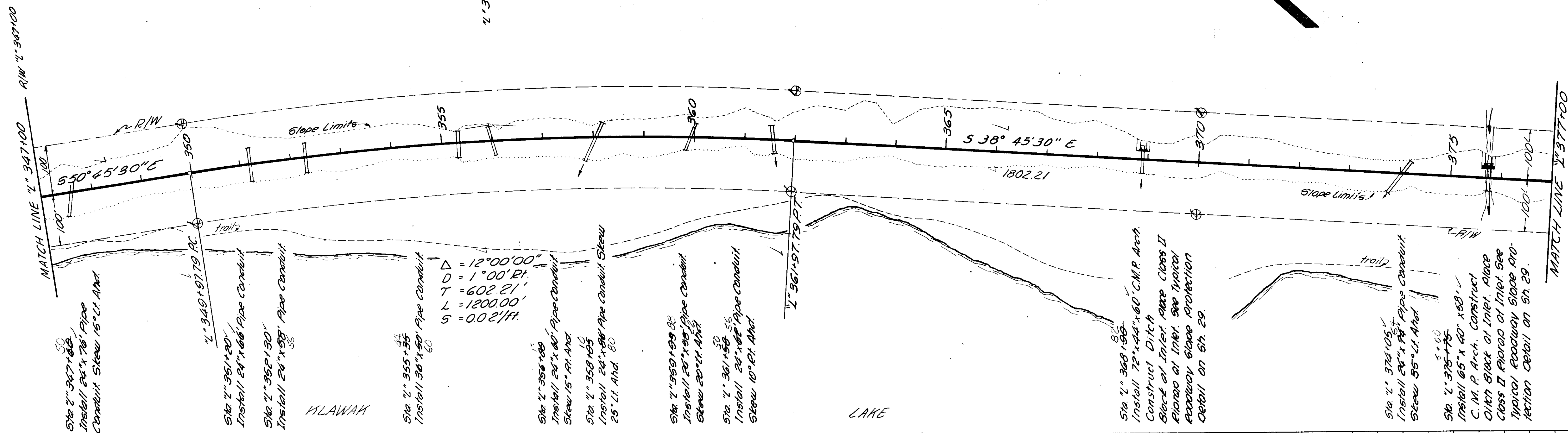
B.M. #20 Spike in 36" Hemlock
125' Rt L' 331+50 Elev. 84.39

B.M. #21 Spike in 24" Hemlock
125' Rt L' 333+50 Elev. 96.25



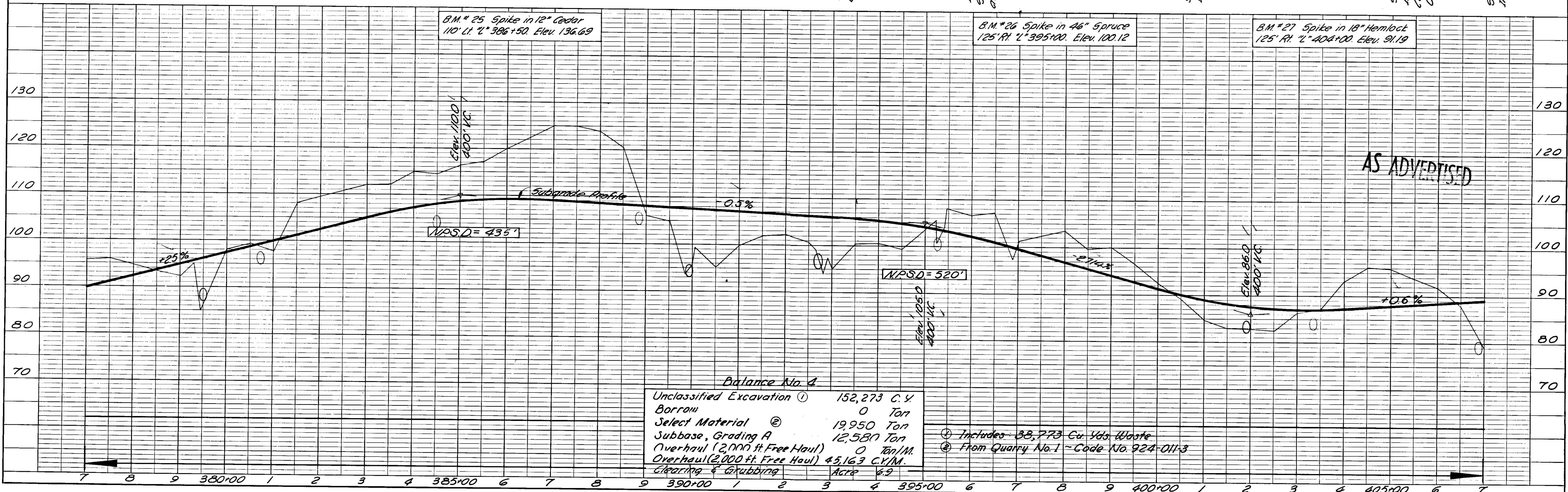
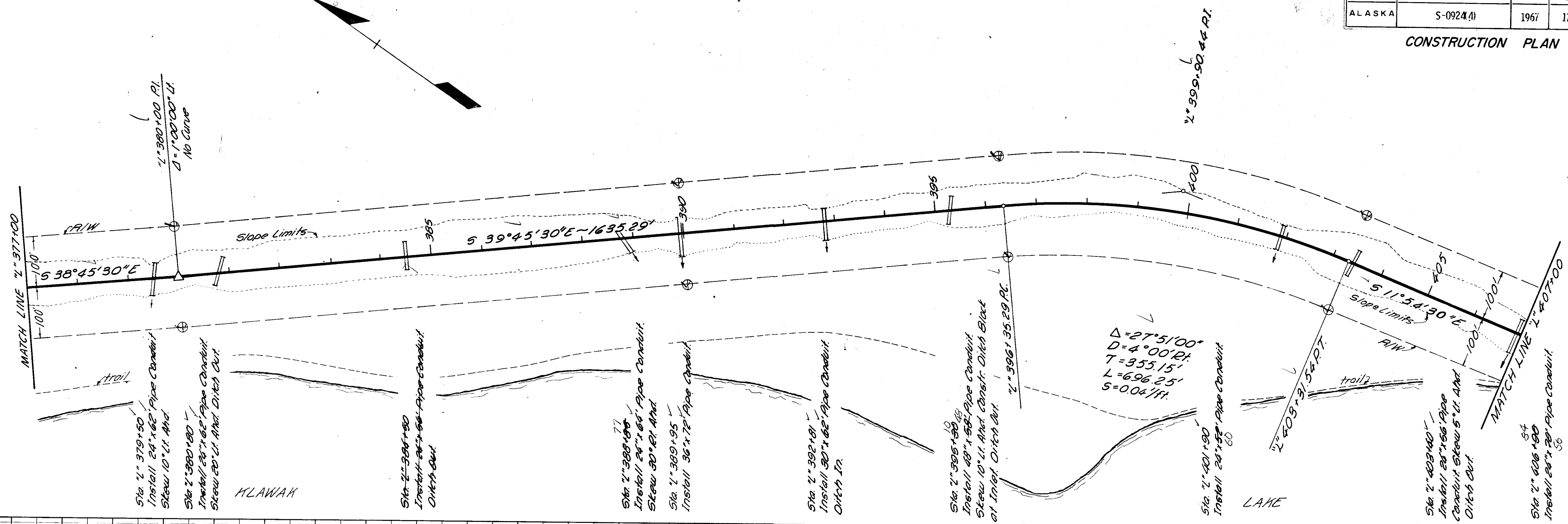
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	16	50

CONSTRUCTION PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	17	50

CONSTRUCTION PLAN



Balance No. 4

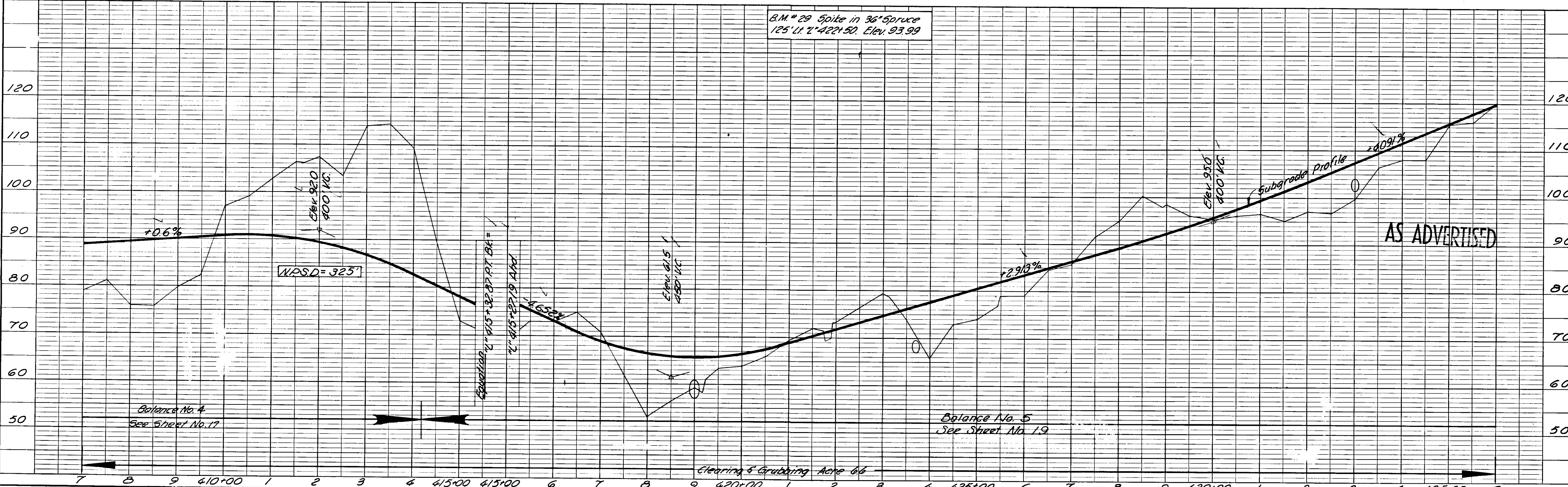
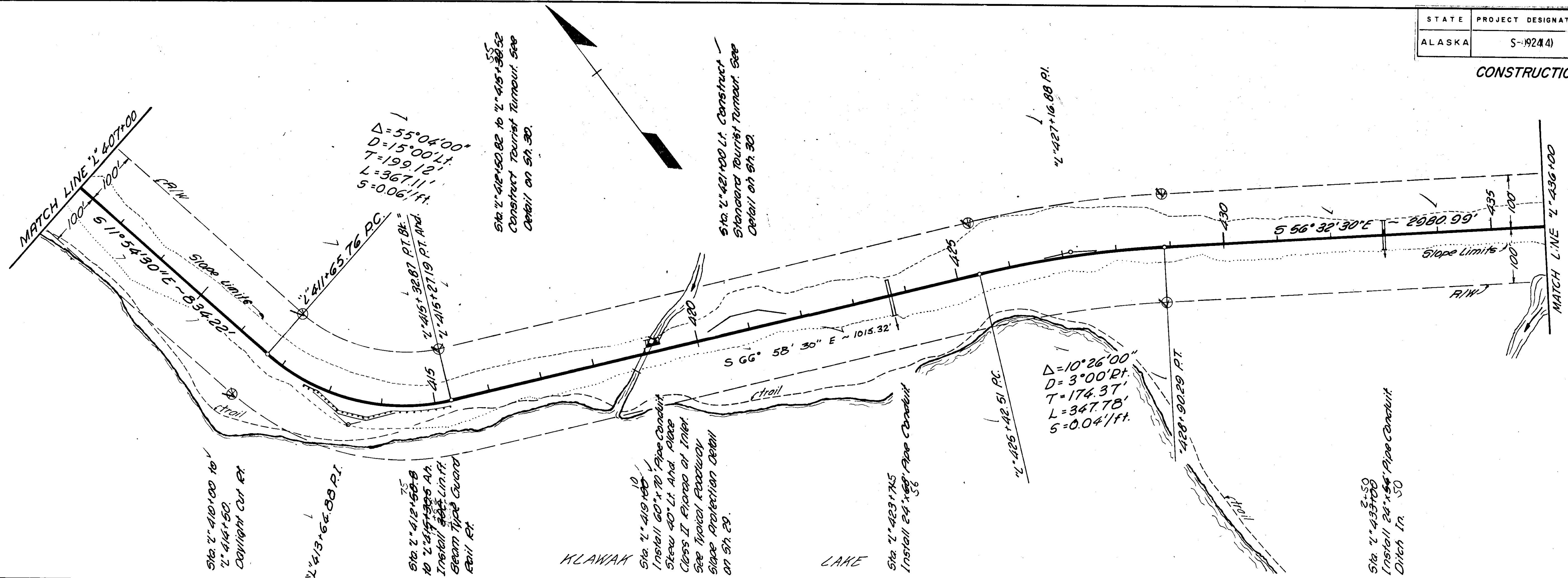
Unclassified Excavation ①	152,273 C.Y.
Borrow	0 Ton
Select Material ②	19,950 Ton
Subbase, Grading A	12,580 Ton
Overhaul (2,000 ft. Free Haul)	0 Ton/M.
Overhaul (2,000 ft. Free Haul)	45,163 C.Y./M.
Clearing & Grubbing	Acres 6.9

- ① Includes 38,273 Cu. Yds. Waste
- ② From Quarry No. 1 - Code No. 924-011-3

AS ADVERTISED

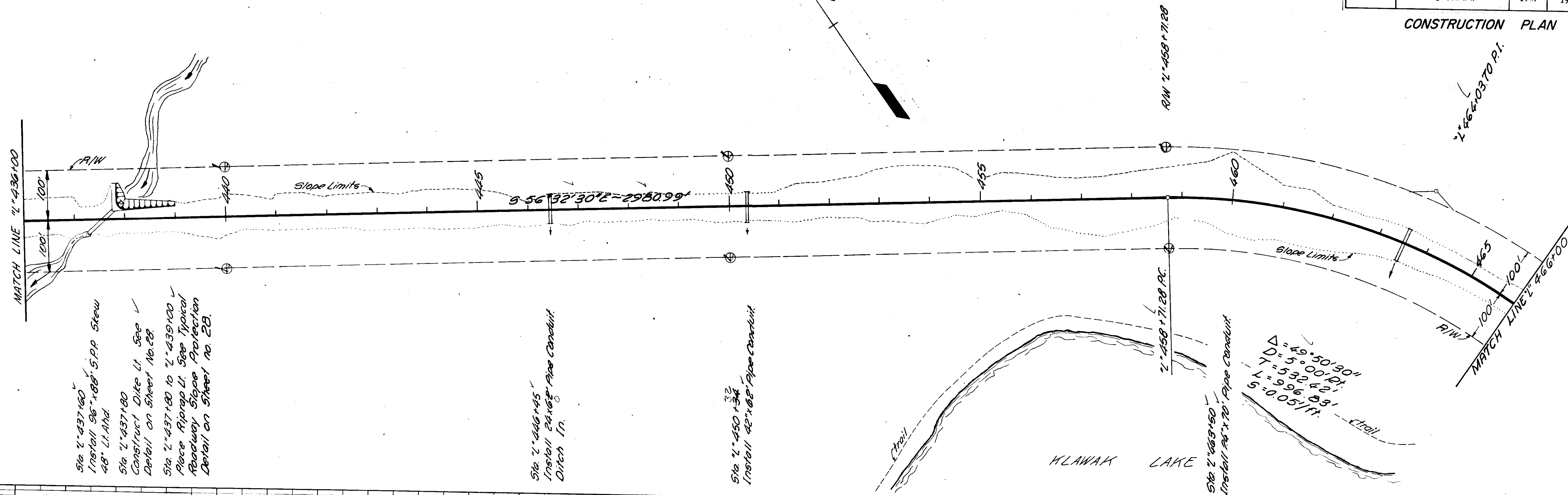
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-1924(4)	1967	18	50

CONSTRUCTION PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TO SHEET
ALASKA	S-09244	1967	19	20

CONSTRUCTION PLAN



Sta 437+00
Install 96"x88" S.P.P. Skew
48" Li. Add

Sta 437+80
Construct Dike Li. See
Detail on Sheet No. 28

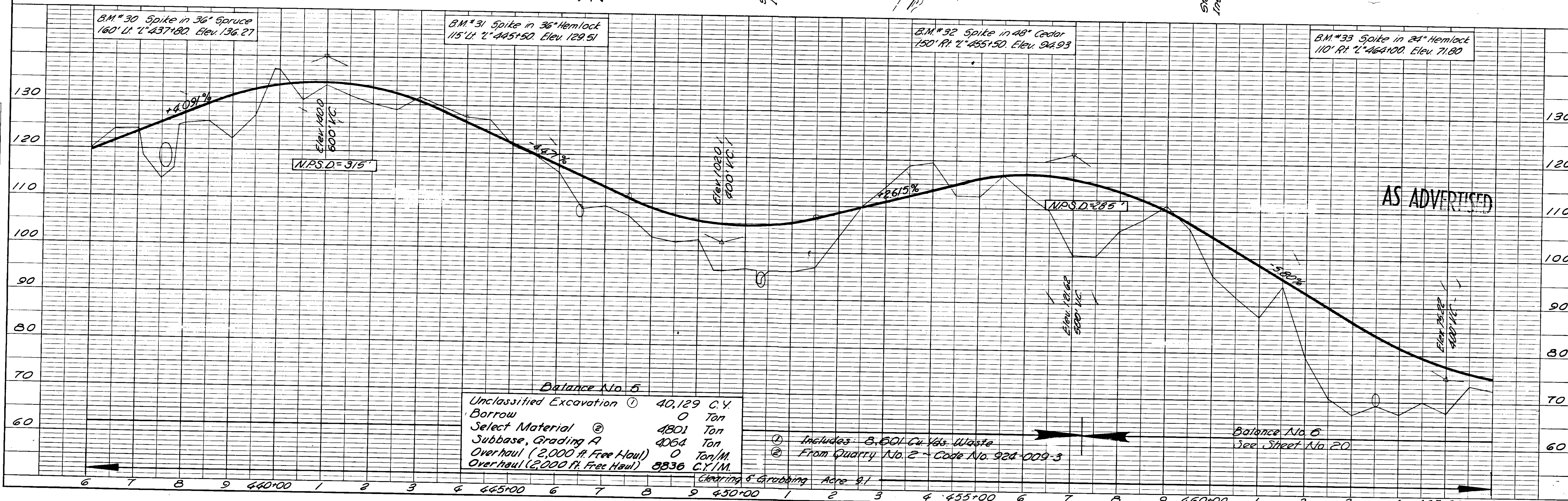
Sta 437+80 to 439+00
Place Riprap Li. See Typical
Roadway Slope Protection
Detail on Sheet No. 28.

Sta 446+45
Install 24"x24" Pipe Conduit
Ditch In.

Sta 450+32
Install 42"x62" Pipe Conduit

Sta 463+50
Install 24"x24" Pipe Conduit

$\Delta = 49^\circ 50' 30''$
 $D = 5^\circ 00' 00''$
 $T = 532.42'$
 $L = 996.83'$
 $S = 0.05/ft$



B.M. #30 Spike in 36" Spruce
160' Lt. 437+80 Elev. 136.27

B.M. #31 Spike in 36" Hemlock
115' Lt. 445+50 Elev. 129.51

B.M. #32 Spike in 48" Cedar
150' Rt. 455+50 Elev. 94.93

B.M. #33 Spike in 24" Hemlock
110' Rt. 464+00 Elev. 71.80

N.P.S.D. = 3/5"

N.P.S.D. = 285'

AS ADVERTISED

Balance No. 5

Unclassified Excavation ① 40,129 C.Y.
Borrow 0 Ton
Select Material ② 4801 Ton
Subbase, Grading A 4064 Ton
Overhaul (2,000 ft. Free Haul) 0 Ton/M.
Overhaul (2,000 ft. Free Haul) 8836 C.Y./M.

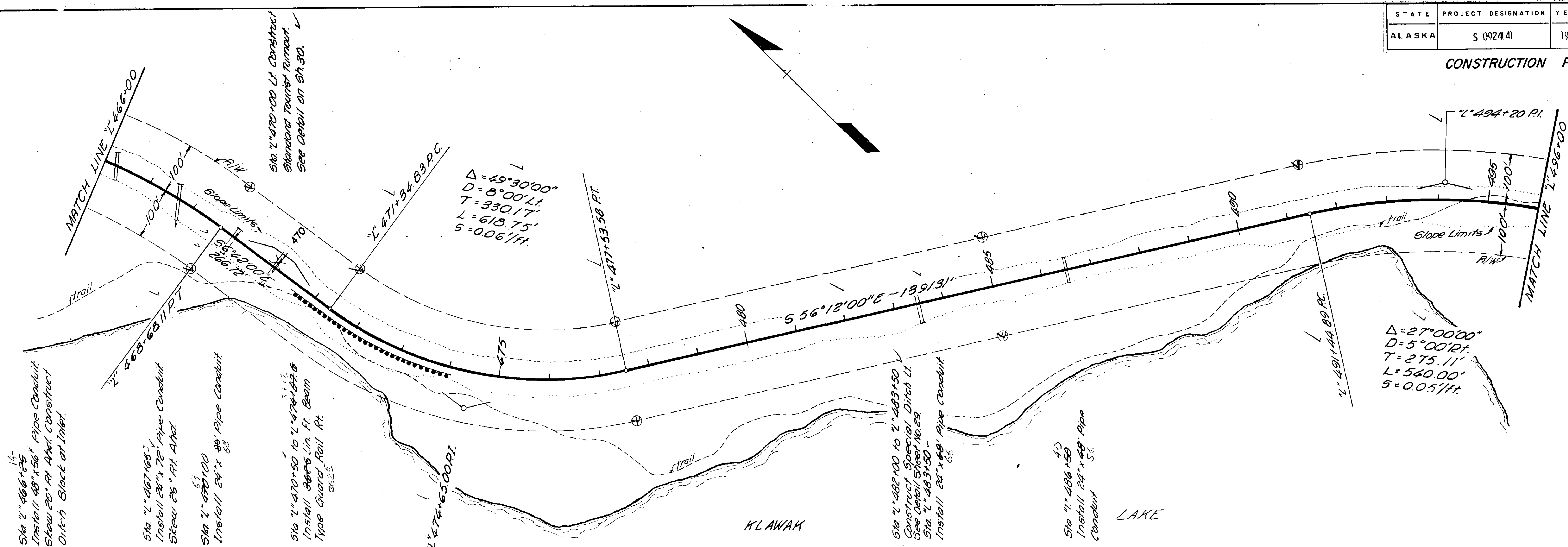
① Includes 8,601 Cu Yds. Waste
② From Quarry No. 2 - Code No. 924-009-3

Balance No. 6
See Sheet No. 20

Clearing & Grubbing Acre 9.1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0924(4)	1967	20	50

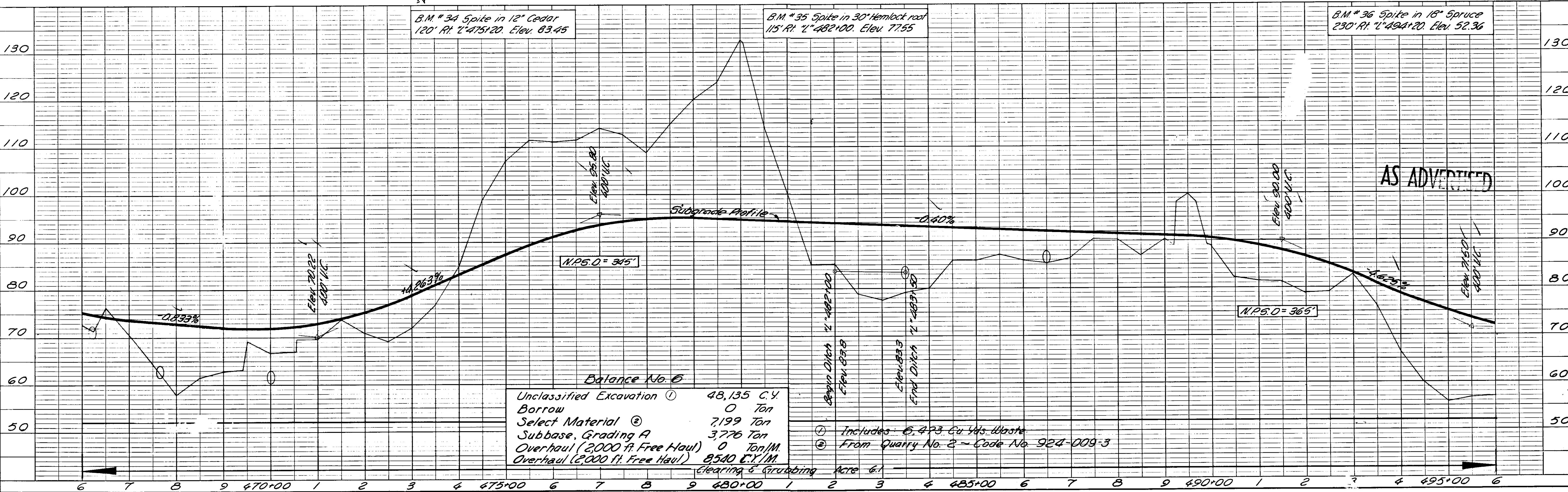
CONSTRUCTION PLAN



B.M. # 34 Spike in 12" Cedar
120' R/W. Sta 475+20. Elev. 83.45

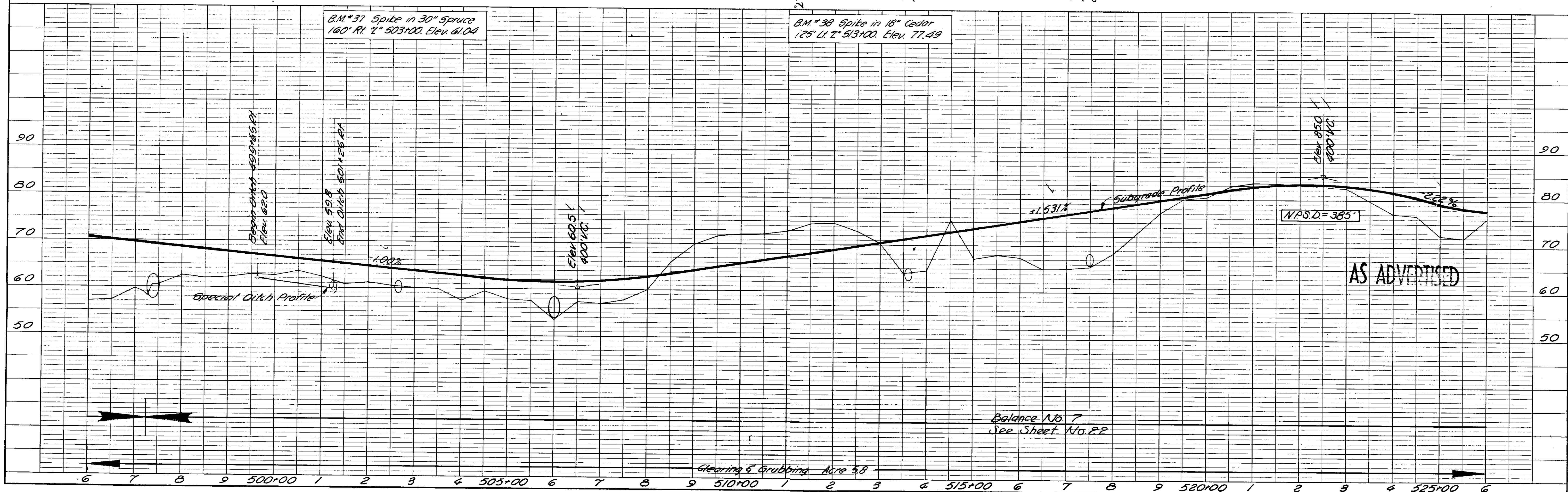
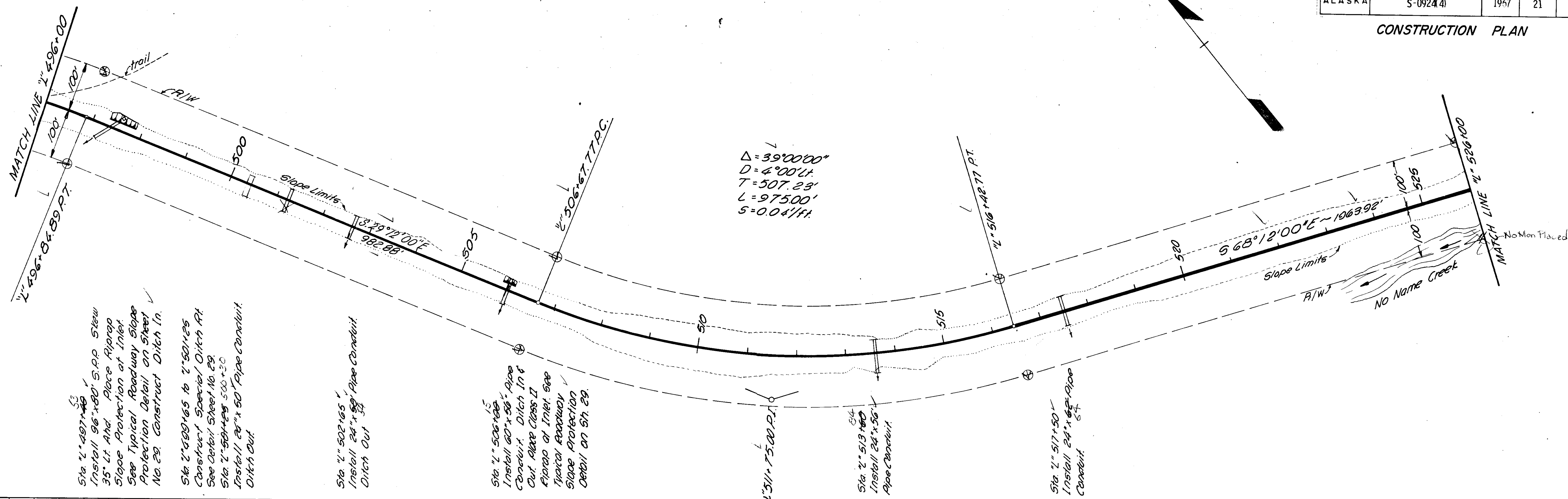
B.M. # 35 Spike in 30" Hemlock roof
115' R/W. Sta 482+00. Elev. 77.55

B.M. # 36 Spike in 18" Spruce
230' R/W. Sta 494+20. Elev. 52.36



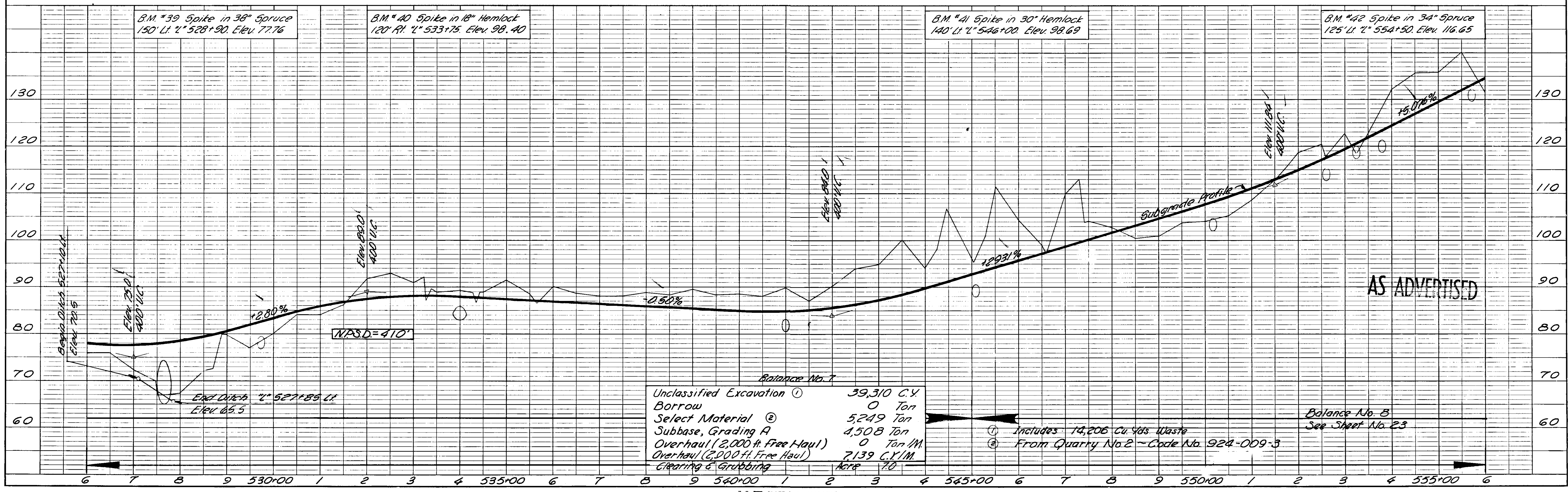
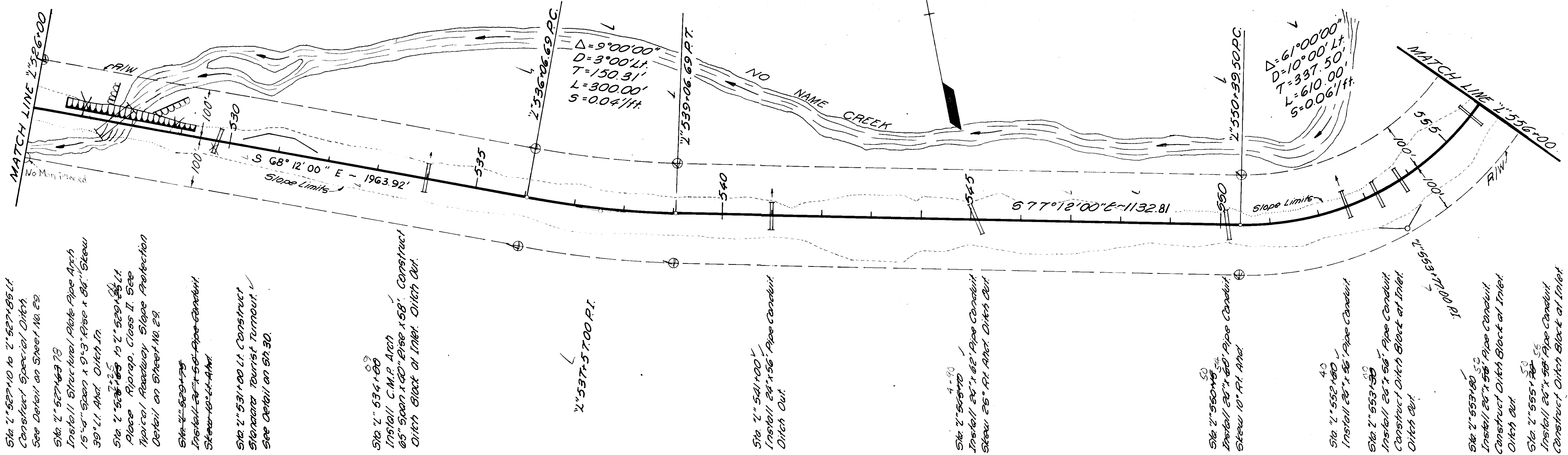
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	21	50

CONSTRUCTION PLAN



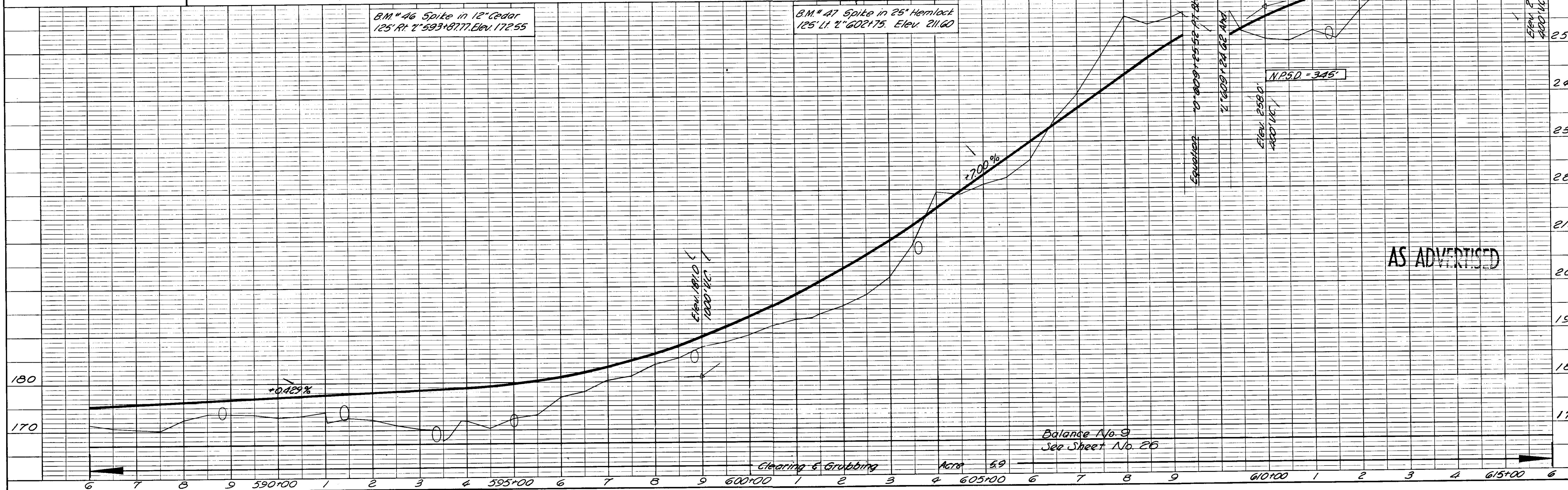
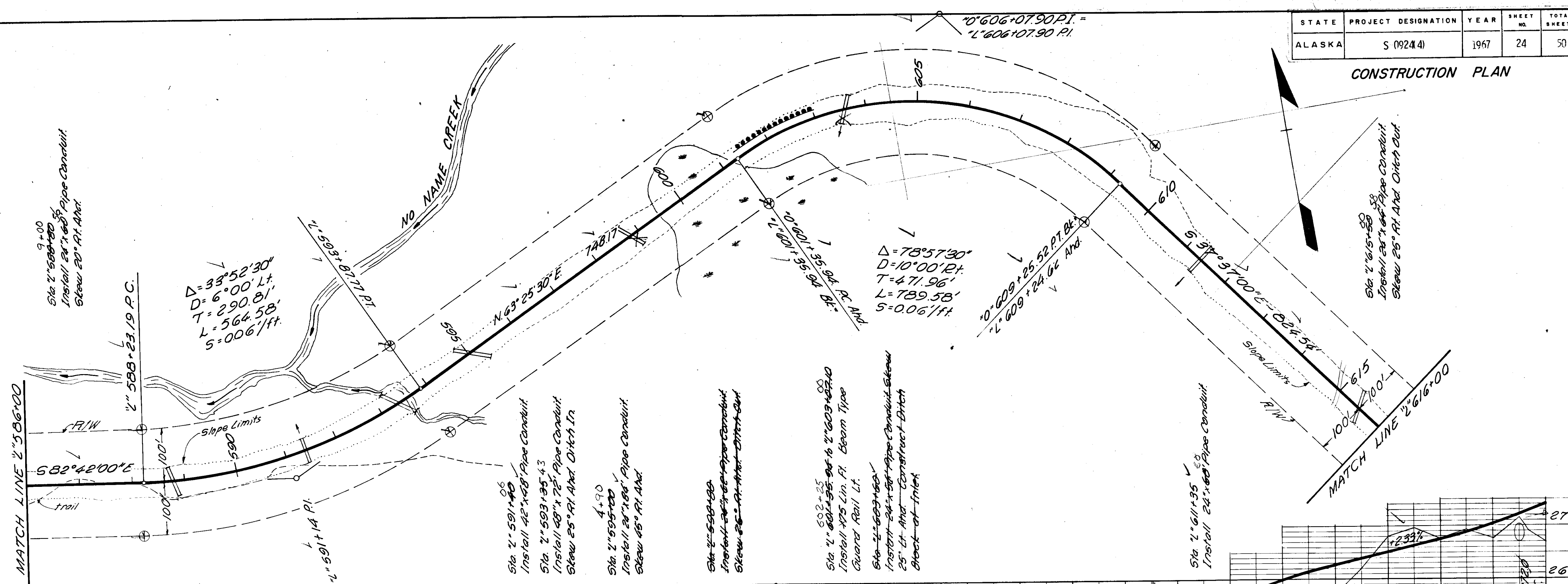
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	22	50

CONSTRUCTION PLAN



NO.	STRUCTURE NOTATIONS CH'KD
NOTE BOOK	B. M'S NOTED
GRADES CHECKED	PLOTTED
SURVEYED	
INVOILL	

CONSTRUCTION PLAN

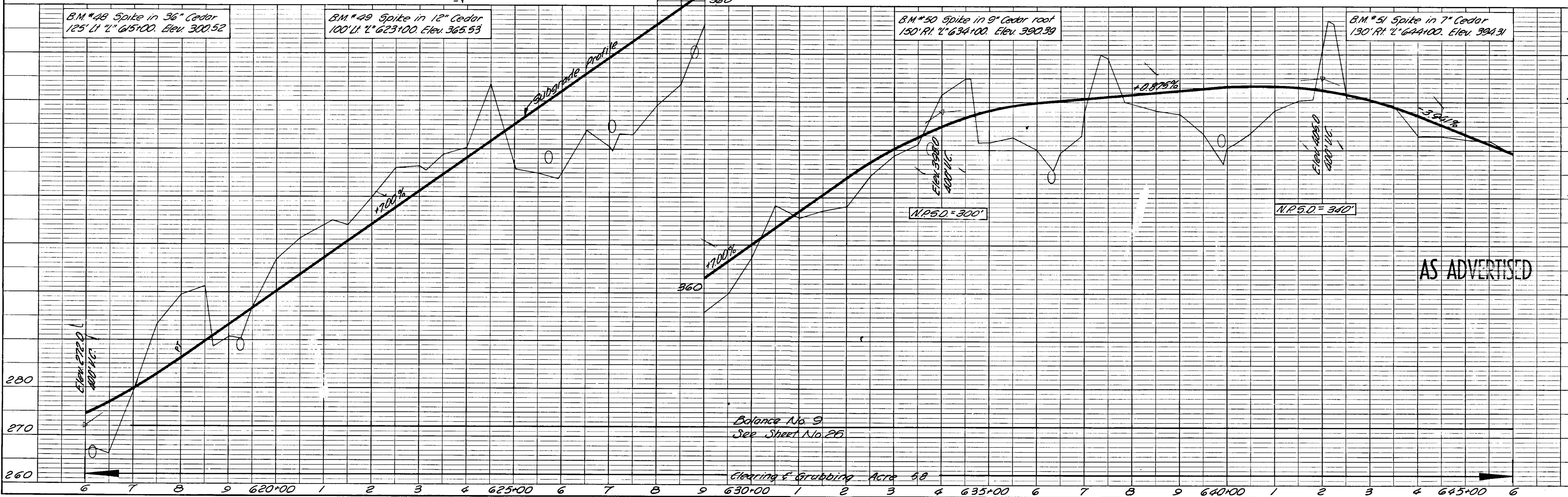
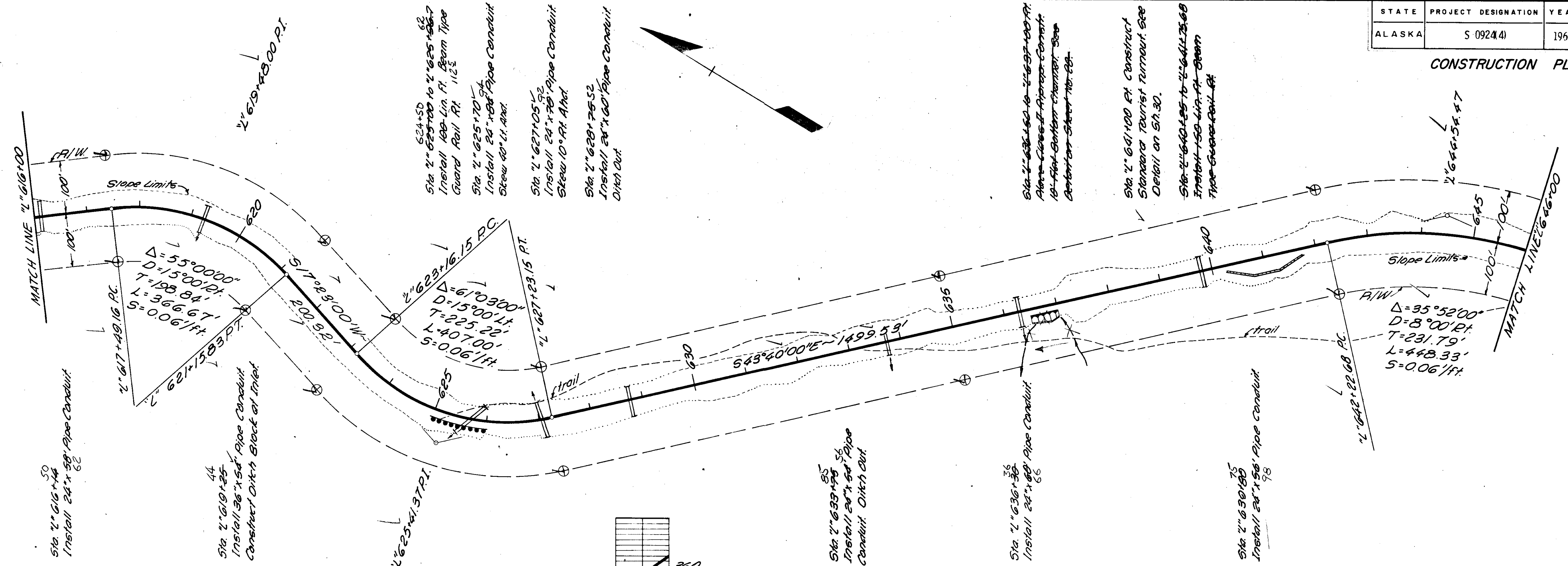


AS ADVERTISED

Balance No. 9
See Sheet No. 26

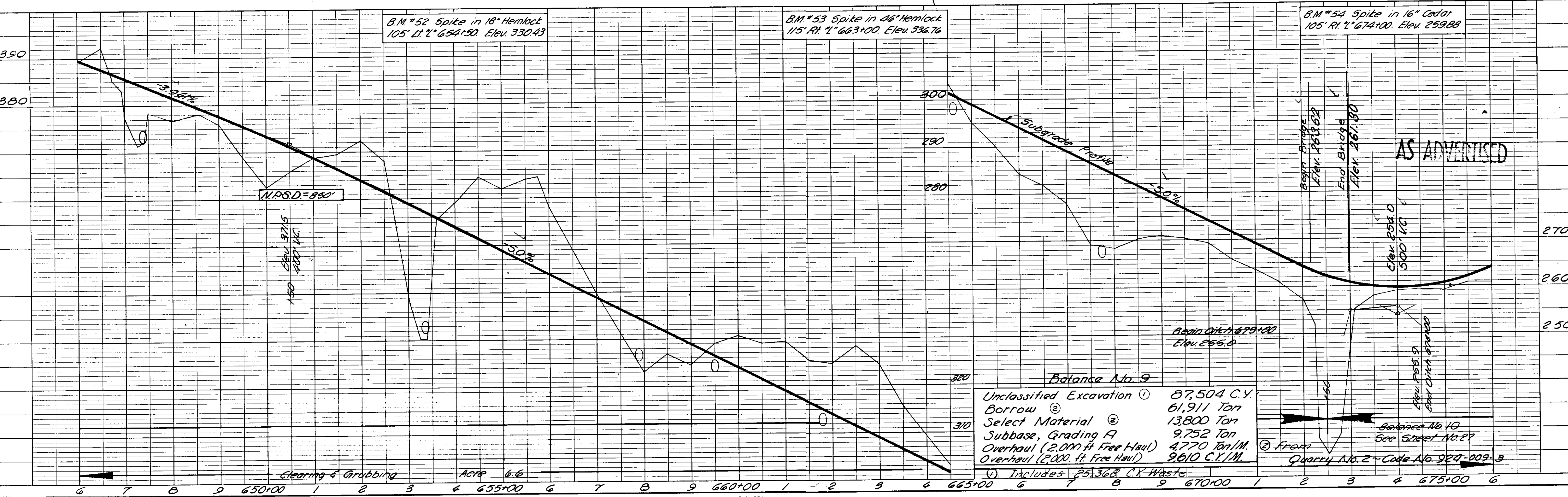
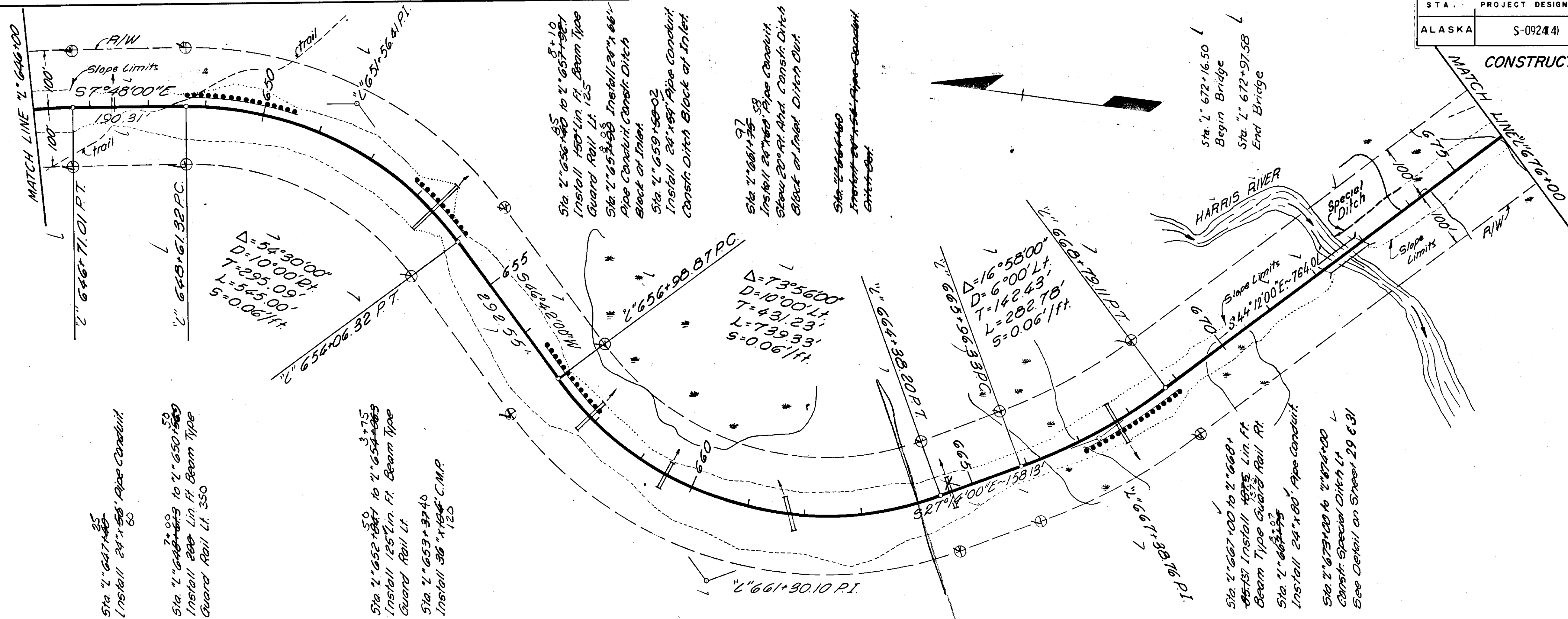
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S 0924(4)	1967	25	50

CONSTRUCTION PLAN



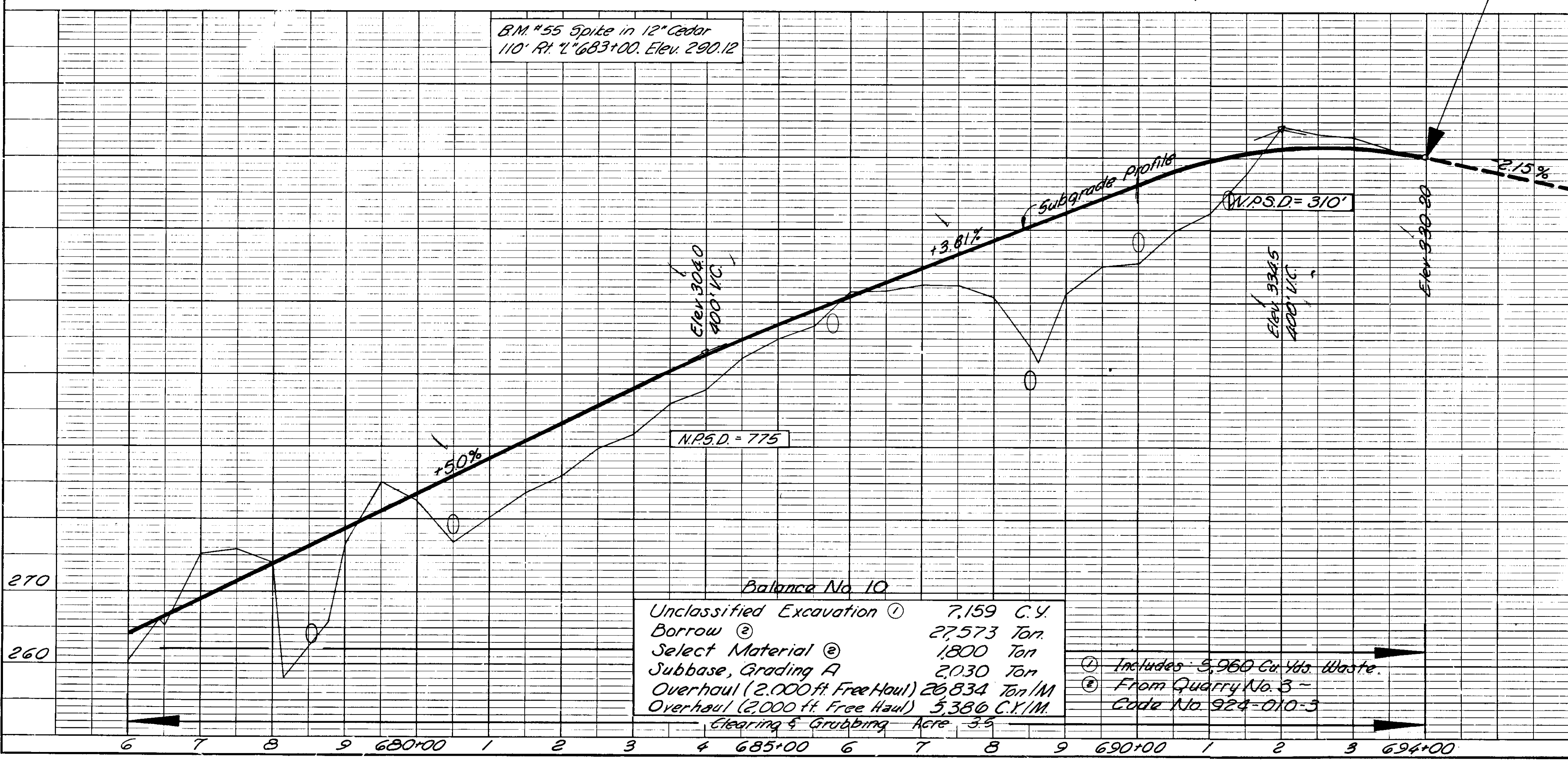
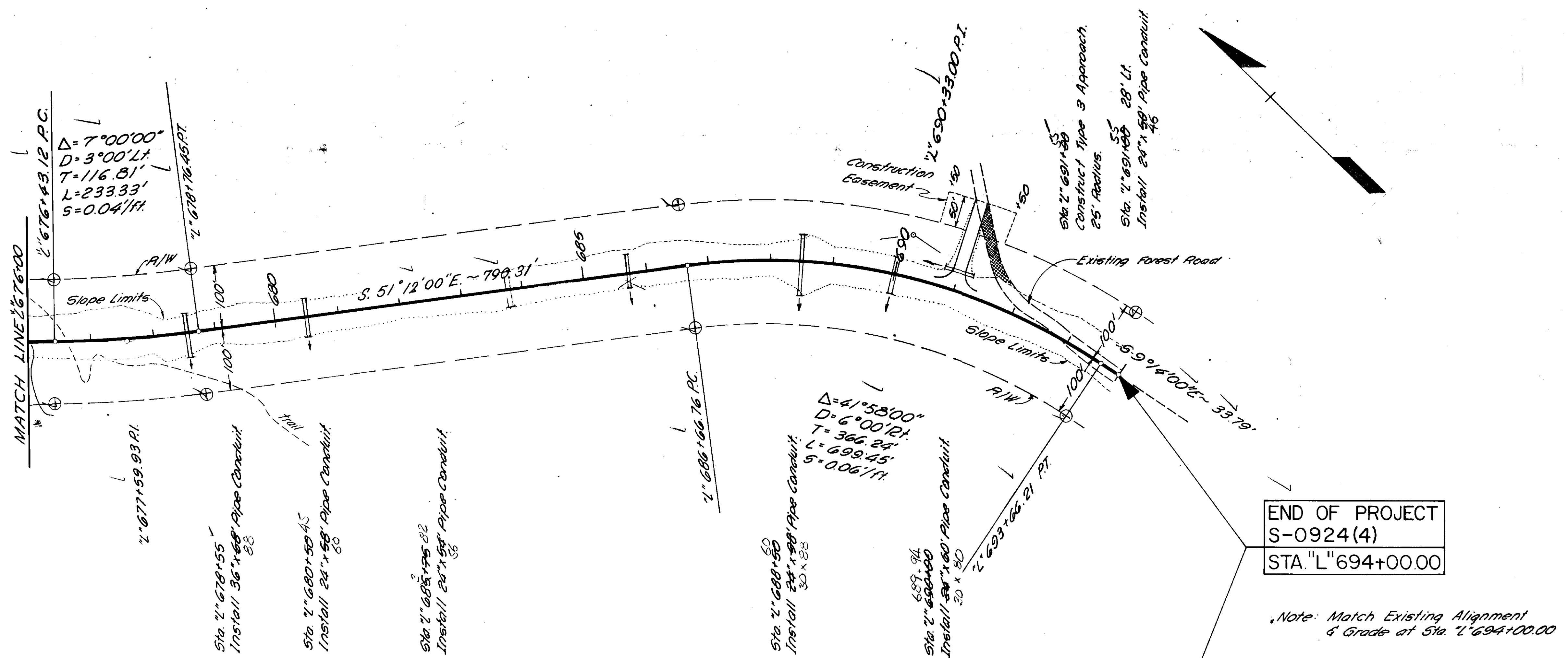
STA.	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	26	50

CONSTRUCTION PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1957	27	50

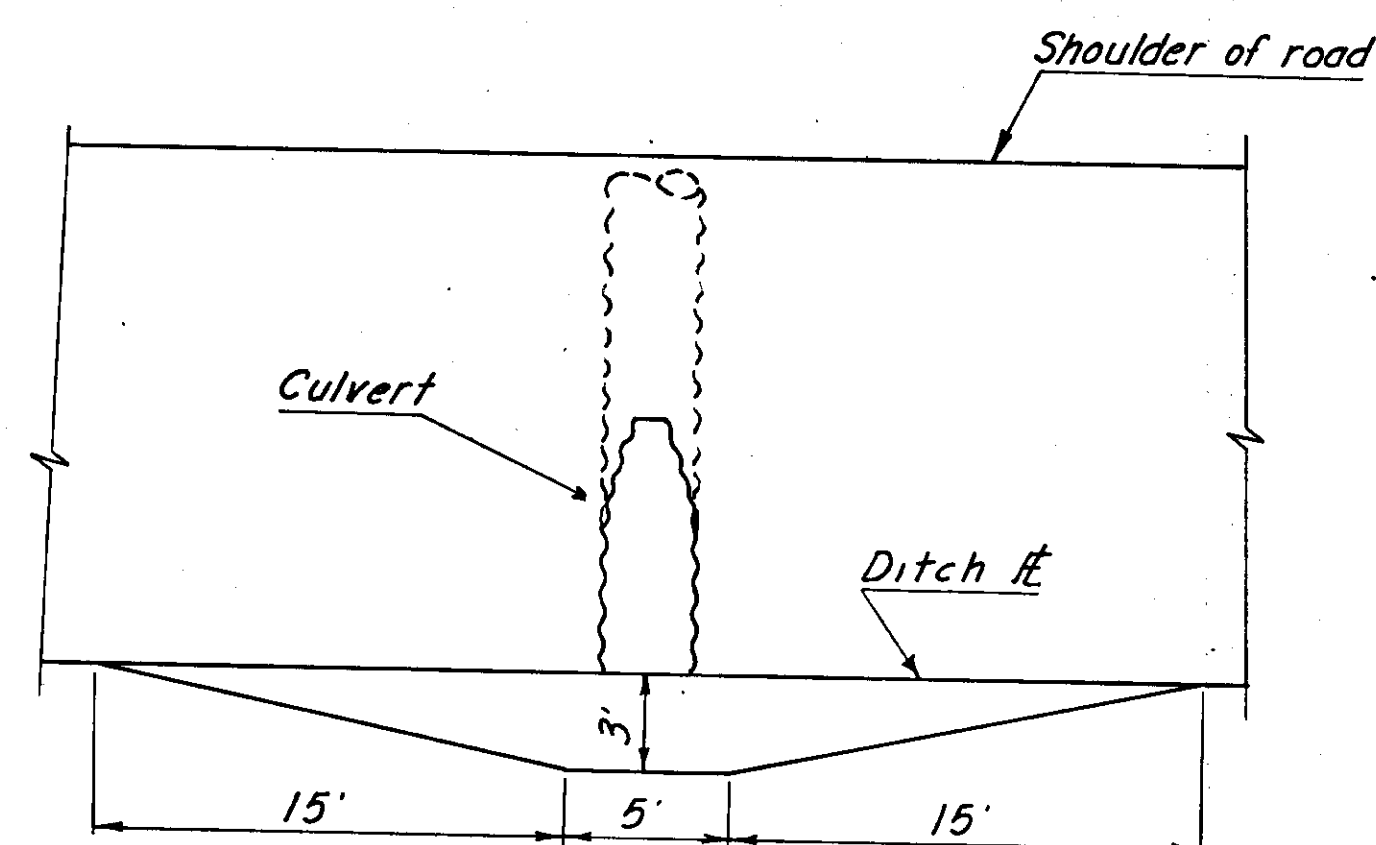
CONSTRUCTION PLAN



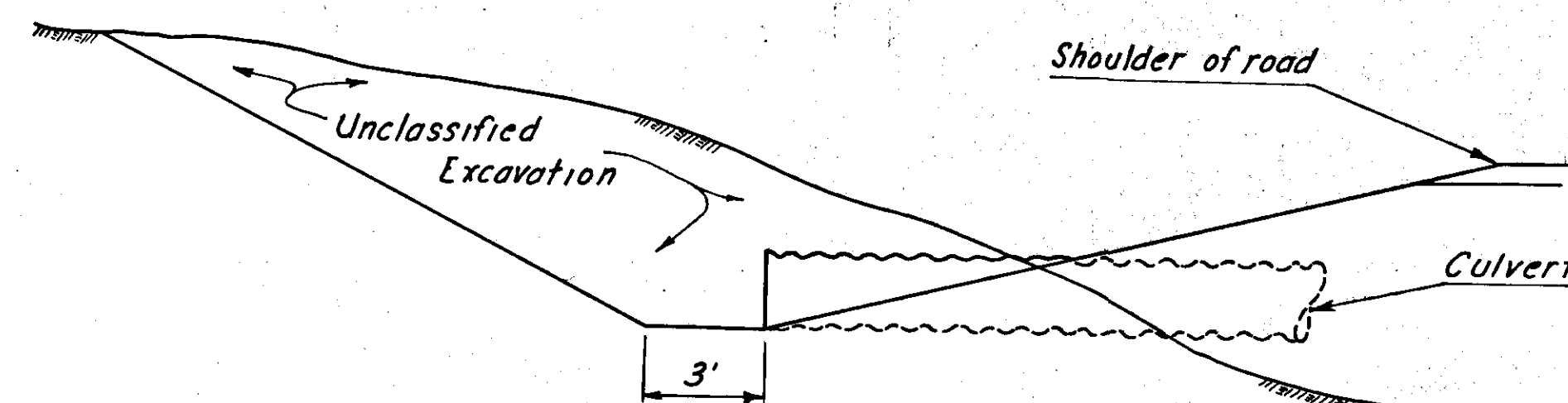
AS ADVERTISED

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	29	50

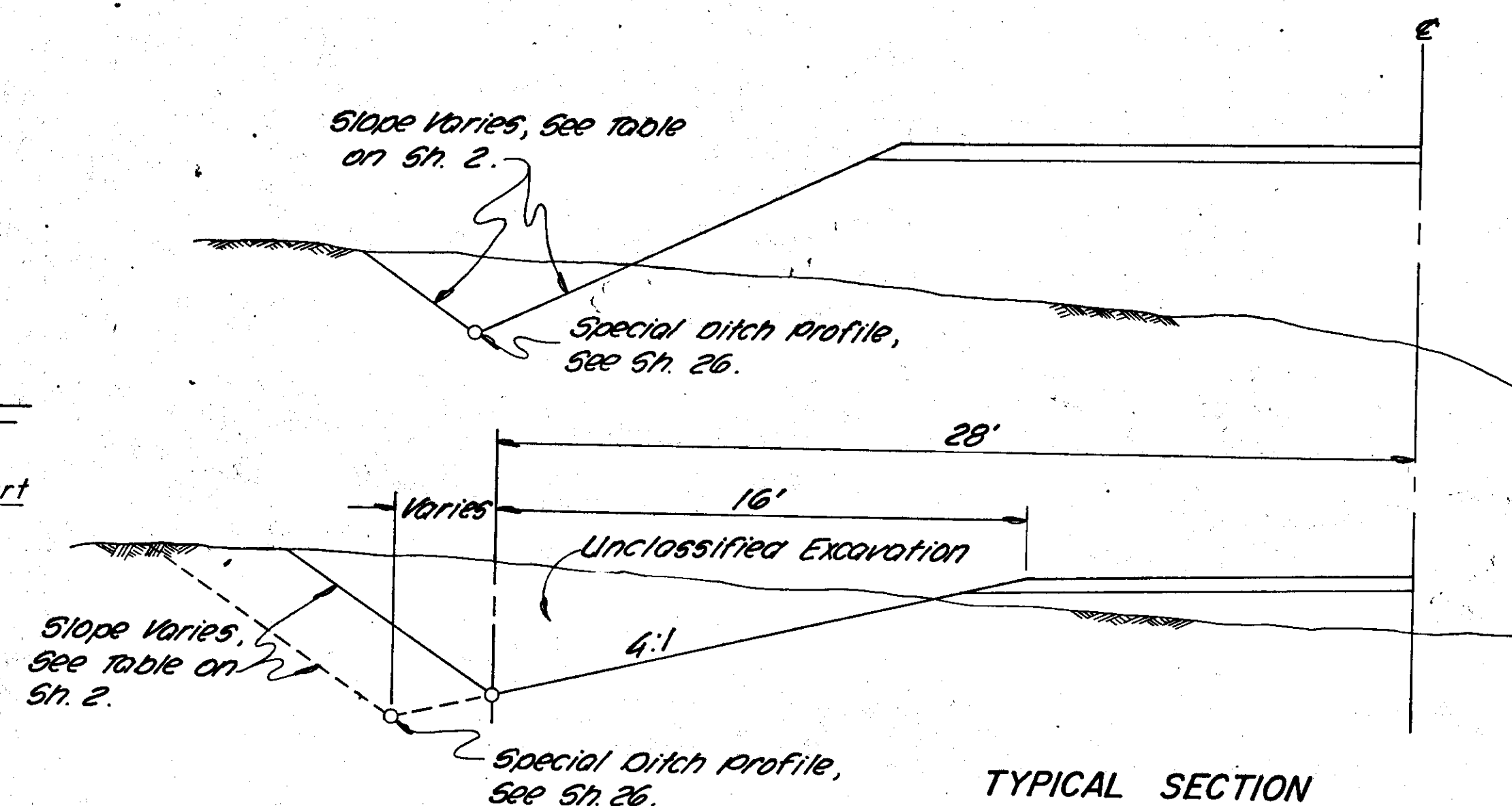
DRAINAGE DETAILS



PLAN VIEW



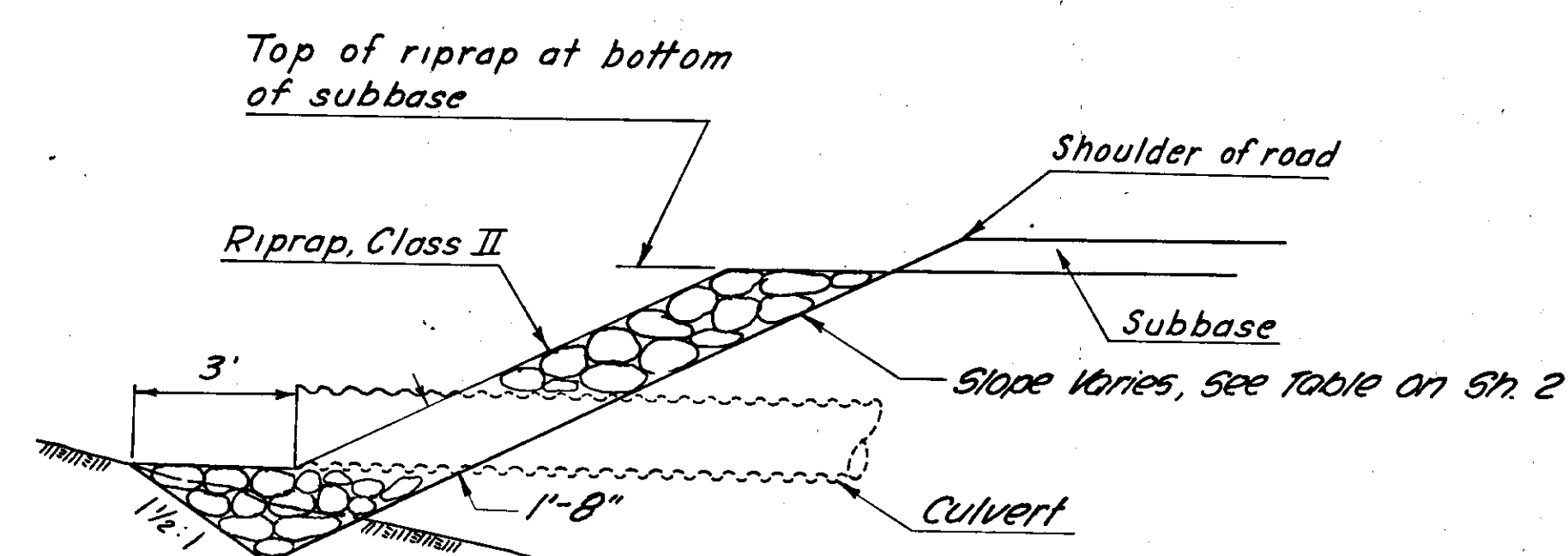
TYPICAL SECTION



TYPICAL SECTION

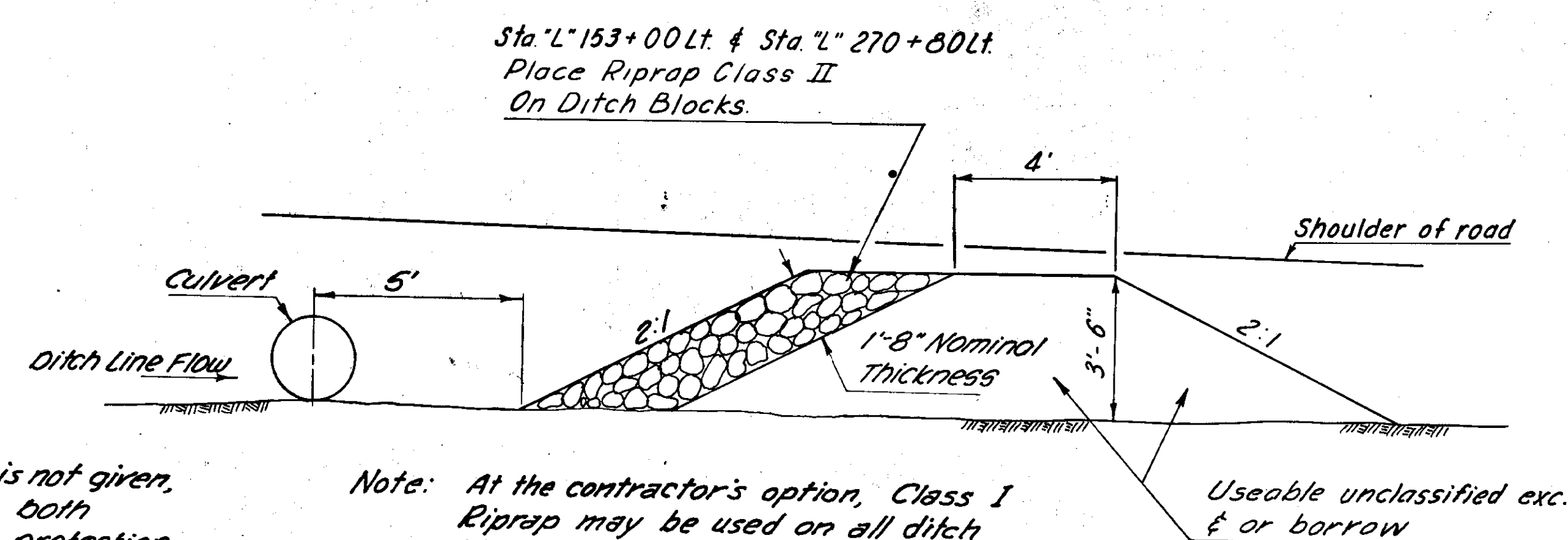
CULVERT INLET DETAIL

SPECIAL DITCH DETAIL



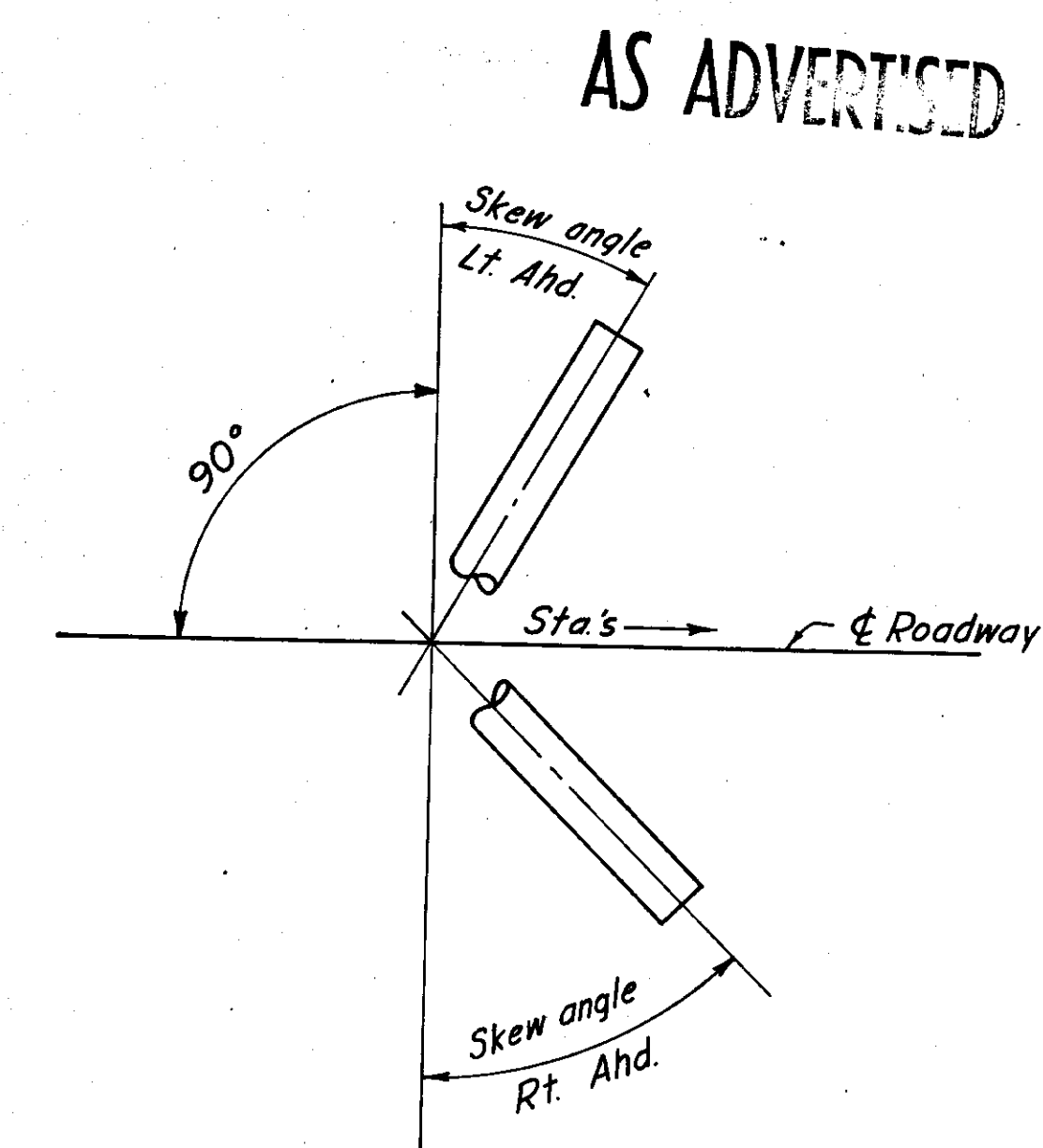
Note: Where length of Riprap is not given, extend Riprap 10 feet on both sides of Culvert for Inlet protection.

TYPICAL ROADWAY SLOPE PROTECTION DETAIL



Note: At the contractor's option, Class I Riprap may be used on all ditch blocks except those at Sta. "L" 153+00 Lt. & "L" 270+80 Lt.

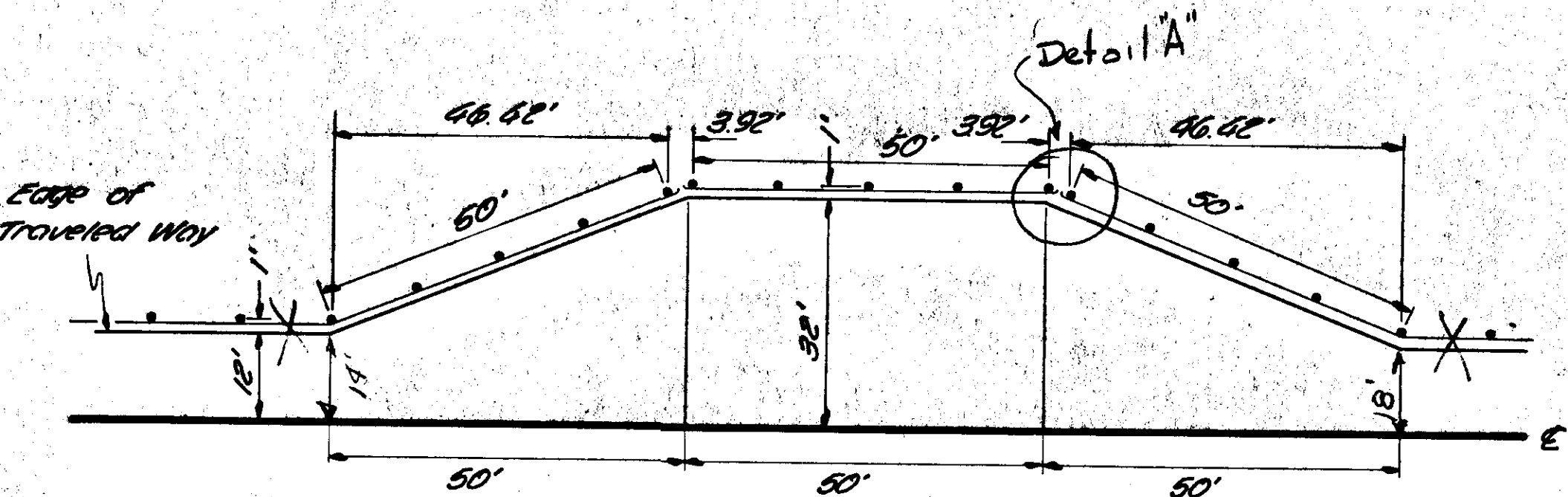
DITCH BLOCK DETAIL



CULVERT SKEW ANGLE

TOURIST TURNOUTS

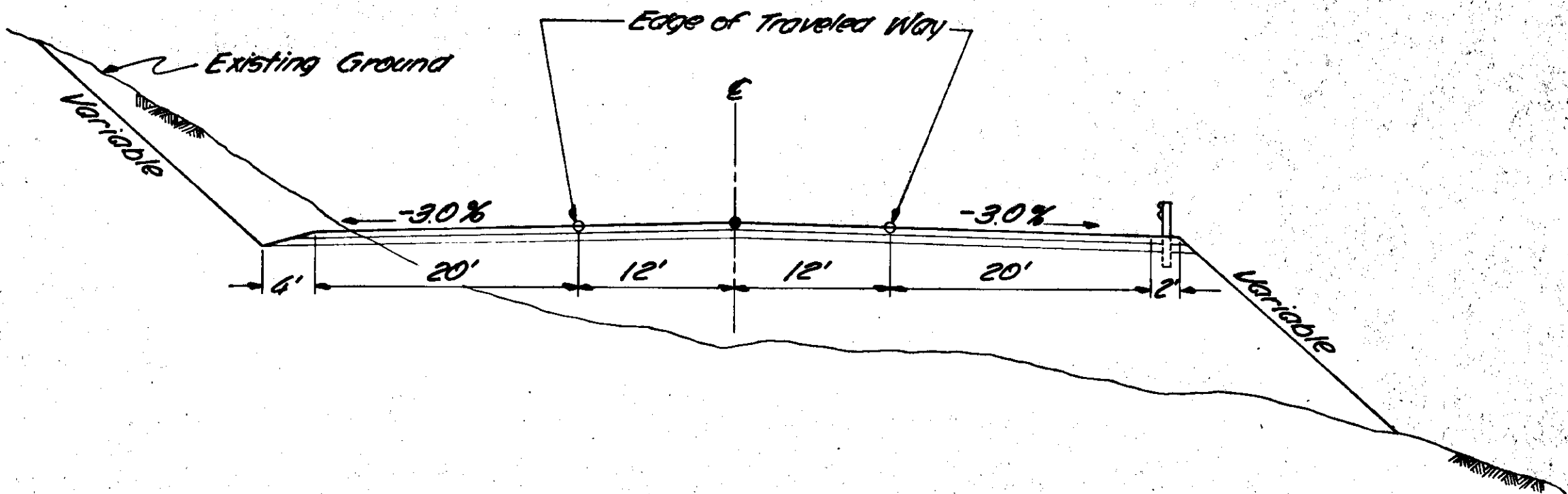
STATION	GUARDBAIL LIN. FT.
"L" 267+00 Rt.	—
"L" 275+00 Lt.	—
"L" 621+00 Lt.	—
"L" 670+00 Lt.	—
"L" 531+00 Lt.	—
"L" 580+00 Lt.	1375
"L" 641+00 Rt.	150



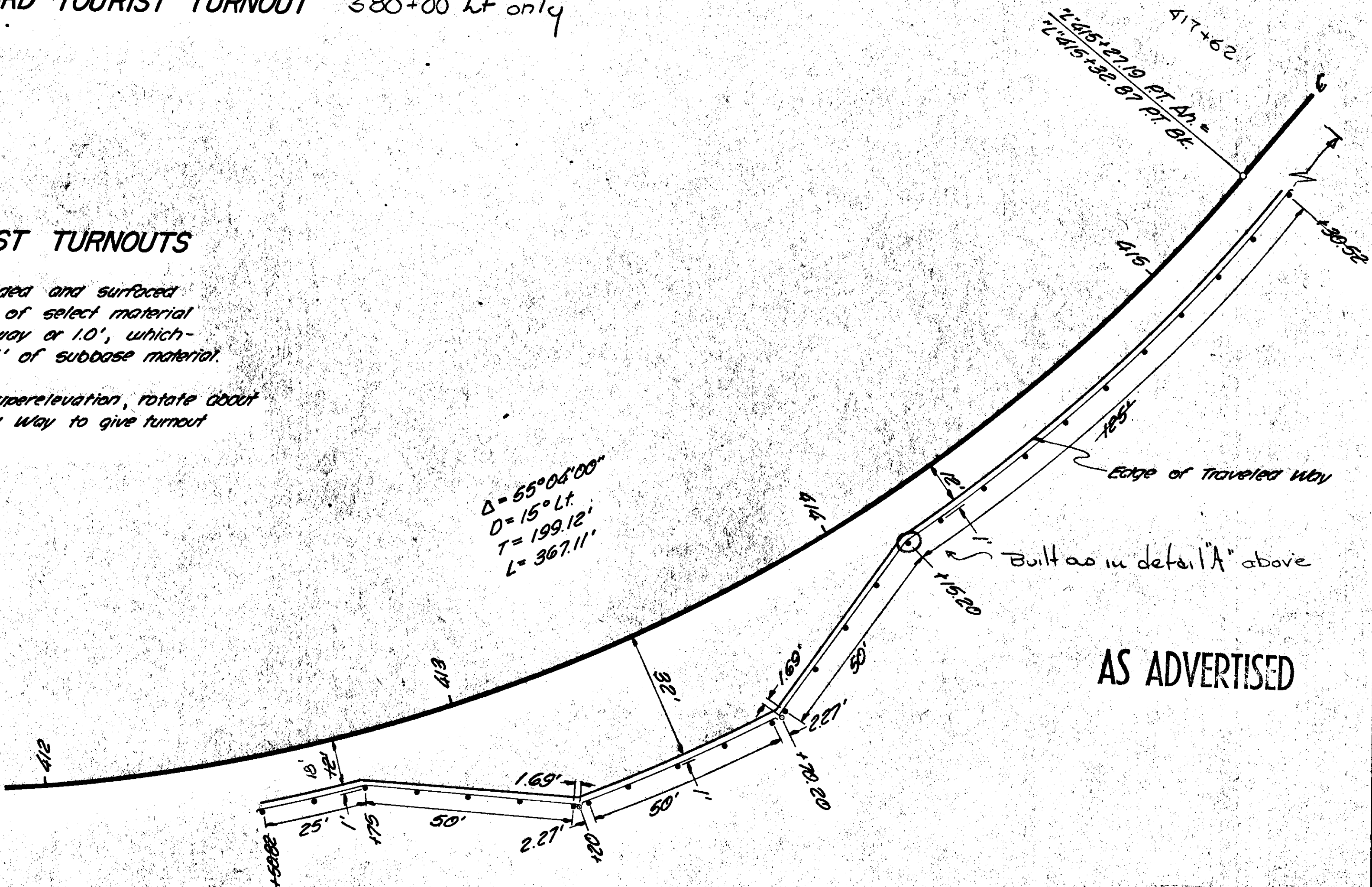
STANDARD TOURIST TURNOUT 580+00 Lt only

NOTES FOR TOURIST TURNOUTS

1. Turnouts shall be graded and surfaced with the same depth of select material as the adjacent roadway or 1.0', whichever is less, and 0.5' of subbase material.
2. When roadway has superelevation, rotate about inside Edge of Traveled Way to give turnout 0.03'/ft. slope.

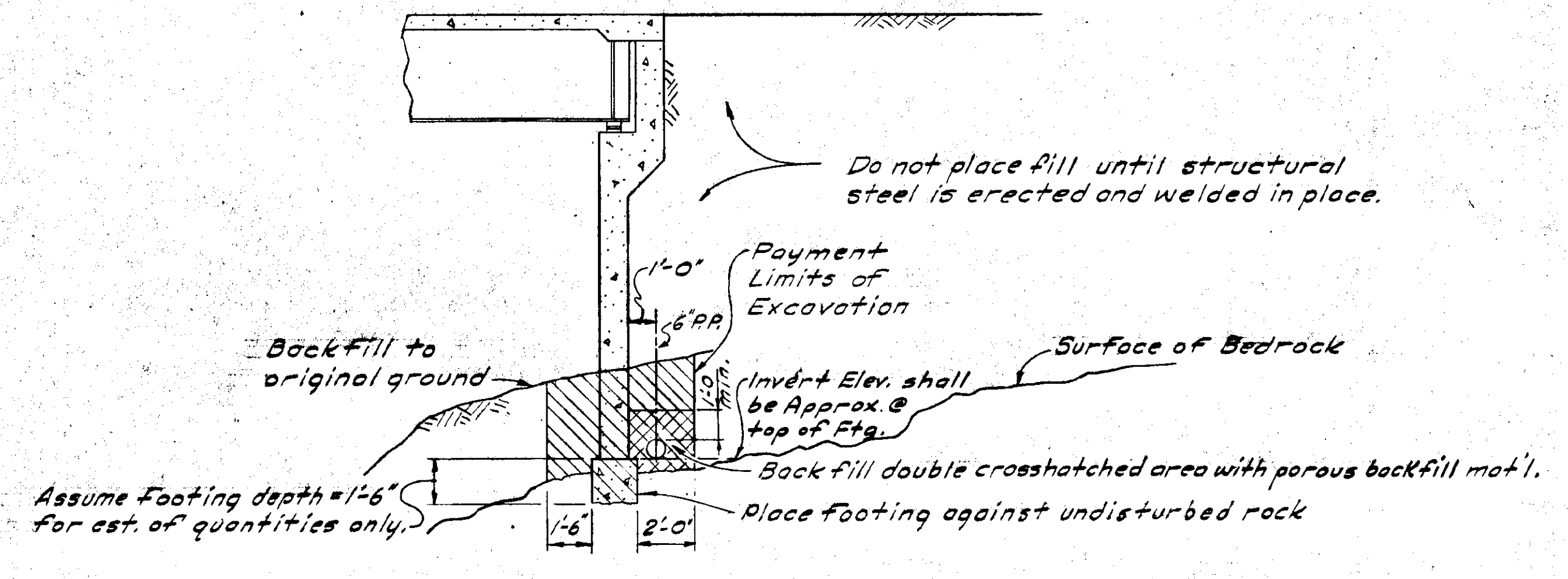


TYPICAL SECTION
TOURIST TURNOUT

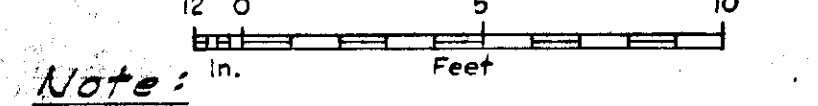


TOURIST TURNOUT
Sta. "L" 412+50.82 to "L" 415+30.52

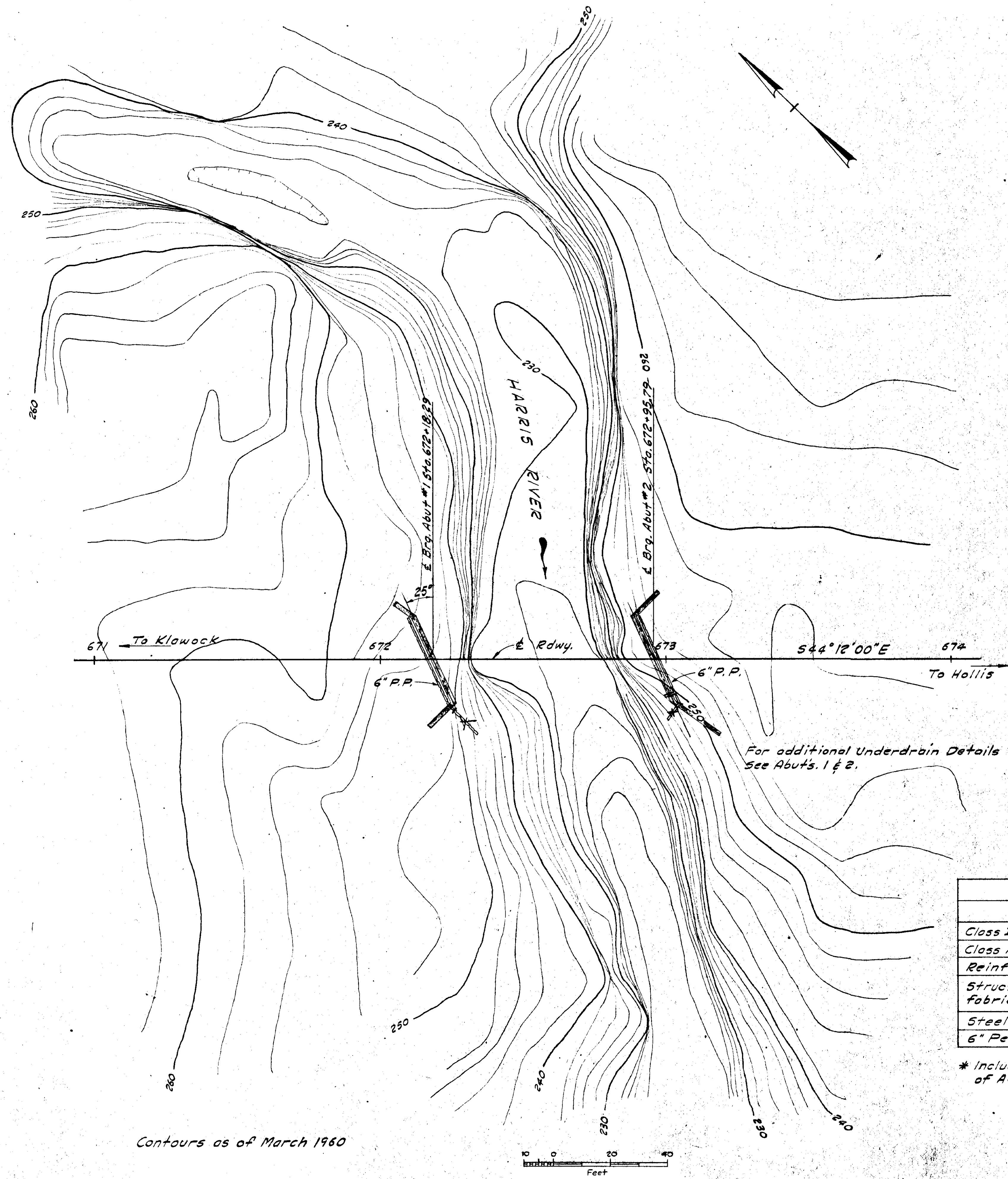
AS ADVERTISED



BACKFILL DETAIL



Note: P.P. indicates Perforated Pipe Underdrain, See Special Provisions. Enclose Pipe outlets with 1/2" mesh Galvanized Hardware Cloth. Tie in place with heavy Gage Galvanized wire.



ESTIMATE OF QUANTITIES				
ITEM	UNIT	Super	Substr	Total
Class I Excavation for Structures	Cu. Yd.	—	120	120
Class A Concrete	Cu. Yd.	54.8	72.8	127.6
Reinforcing Steel	Lb.	15,200	12,250	27,450
Structural Steel, furnished, fabricated & erected.	Lb.	52,100*	—	52,100*
Steel Beam Bridge Rail	L.F.	345	—	345
6" Perforated Pipe Underdrain	L.F.	—	95	95

* Includes approximately 7,360 Lbs of A-36 and 44,470 Lbs of A441 steel.

AS ADVERTISED

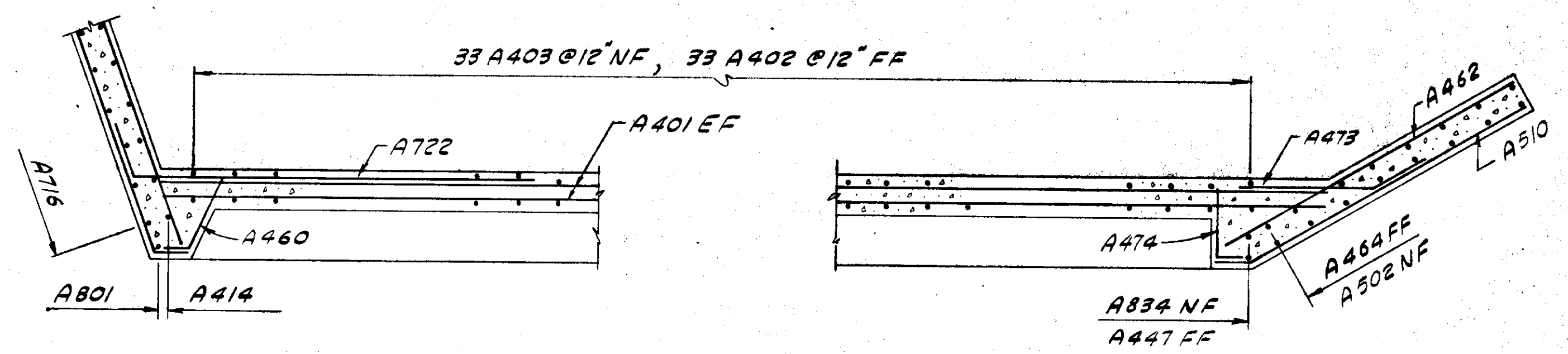
HARRIS RIVER BRIDGE
ROUTE No. S-924
FOUNDATION PLAN

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

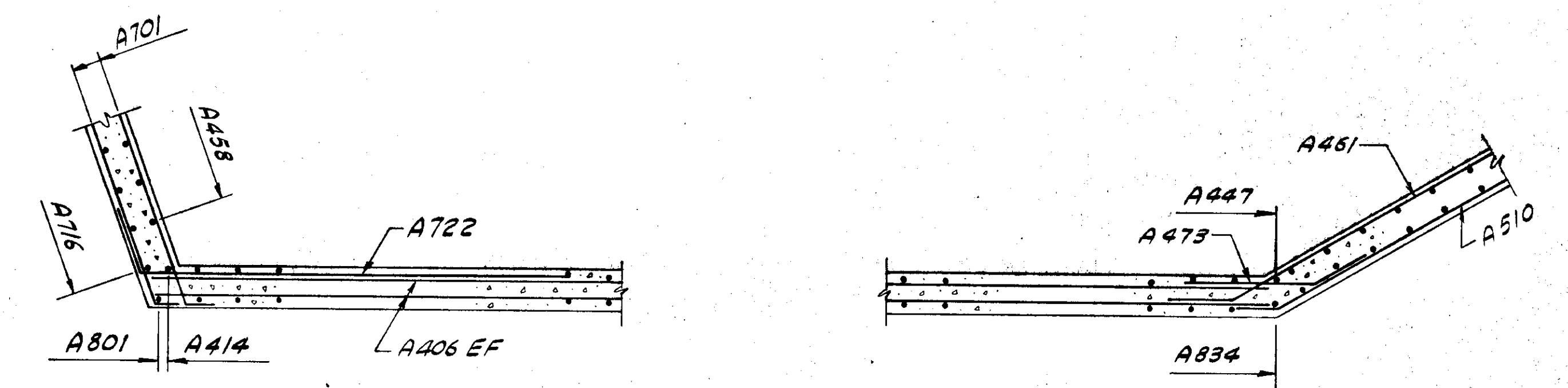
Date 3-2-67
Approved [Signature]



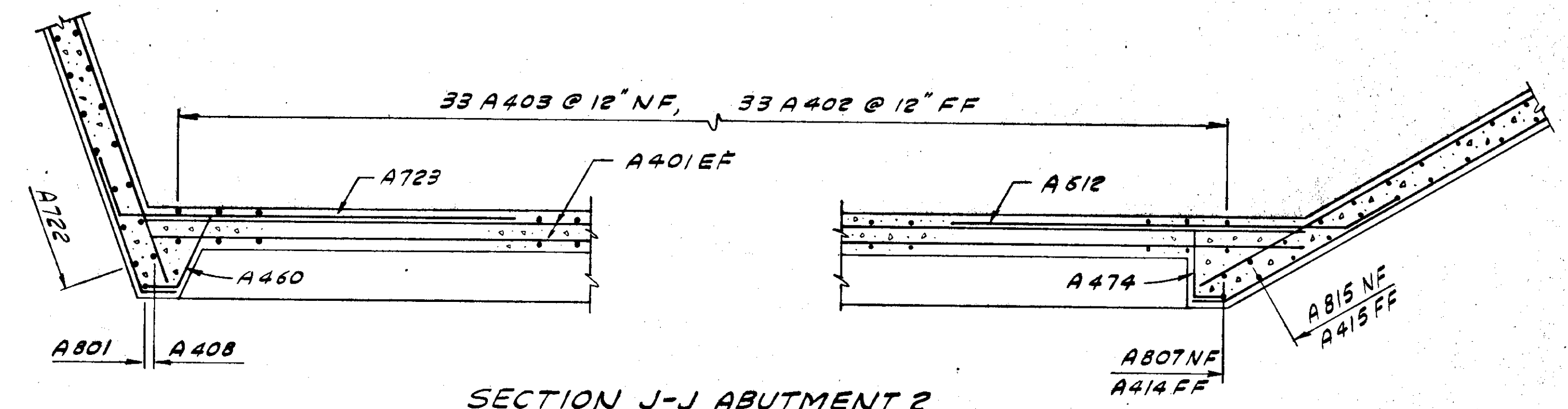
BRIDGE NO. 481
DWNG. NO. 1772



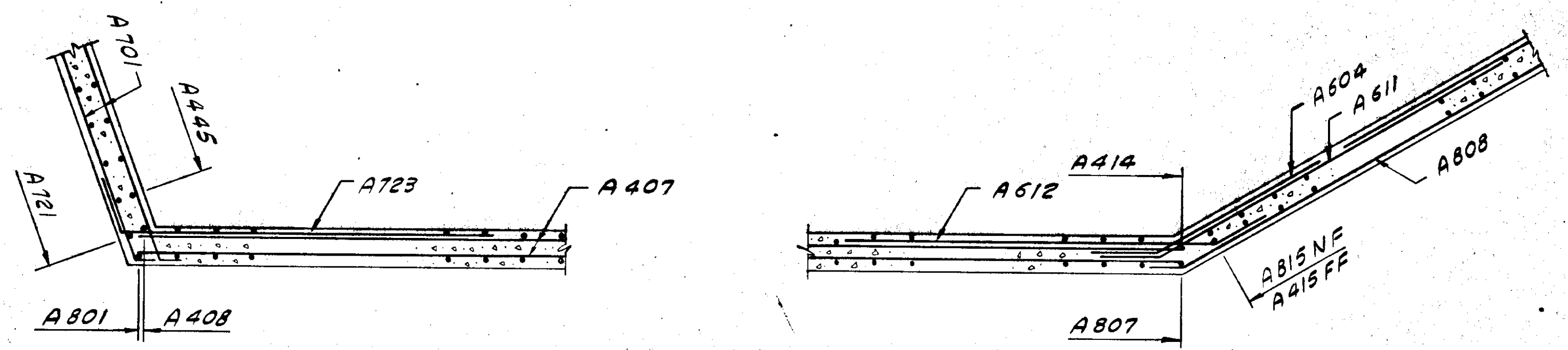
SECTION D-D ABUTMENT 1



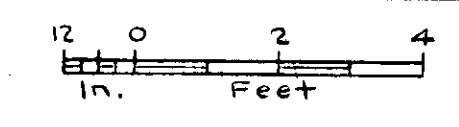
SECTION E-E ABUTMENT 1



SECTION J-J ABUTMENT 2



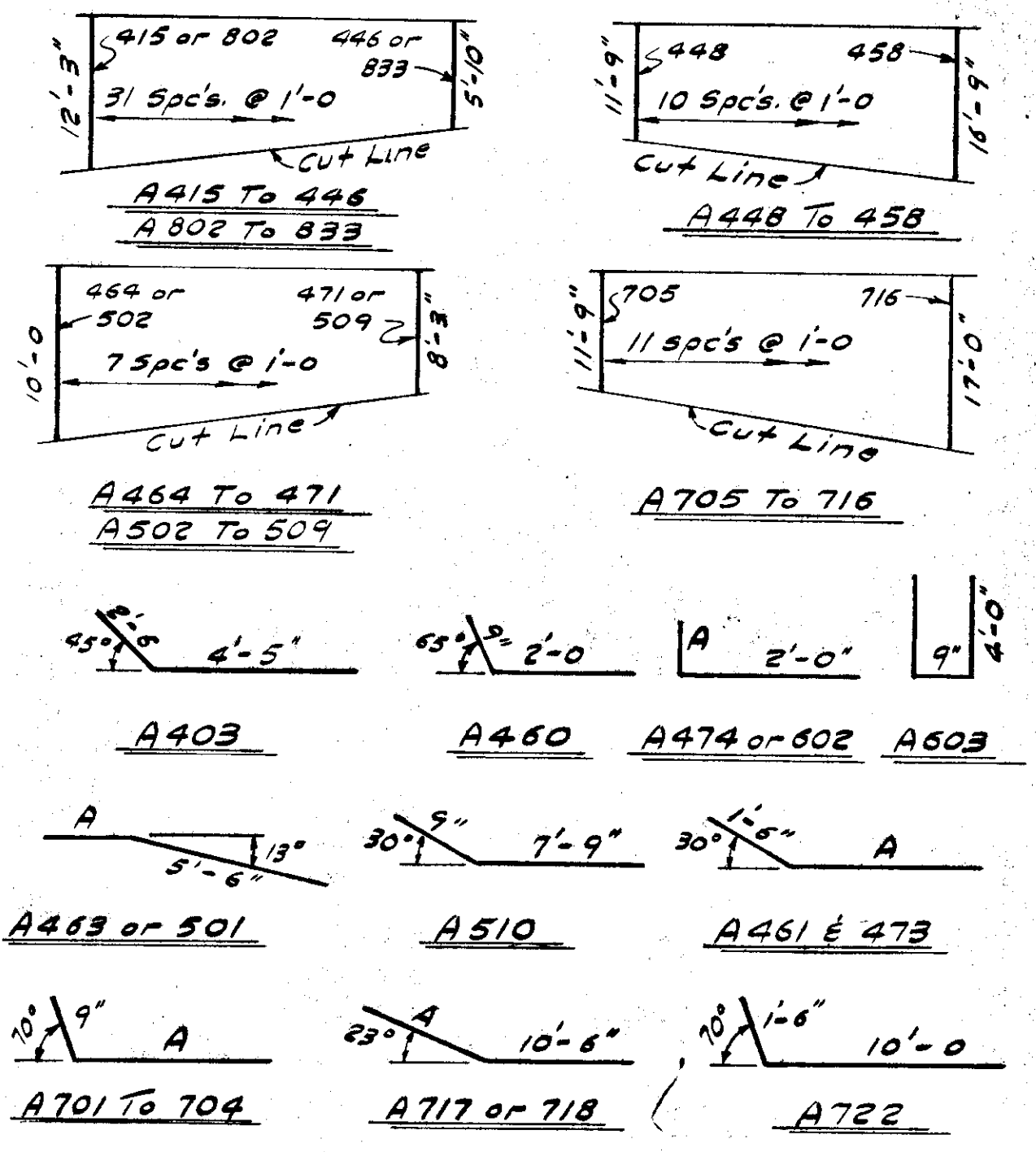
SECTION K-K ABUTMENT 2



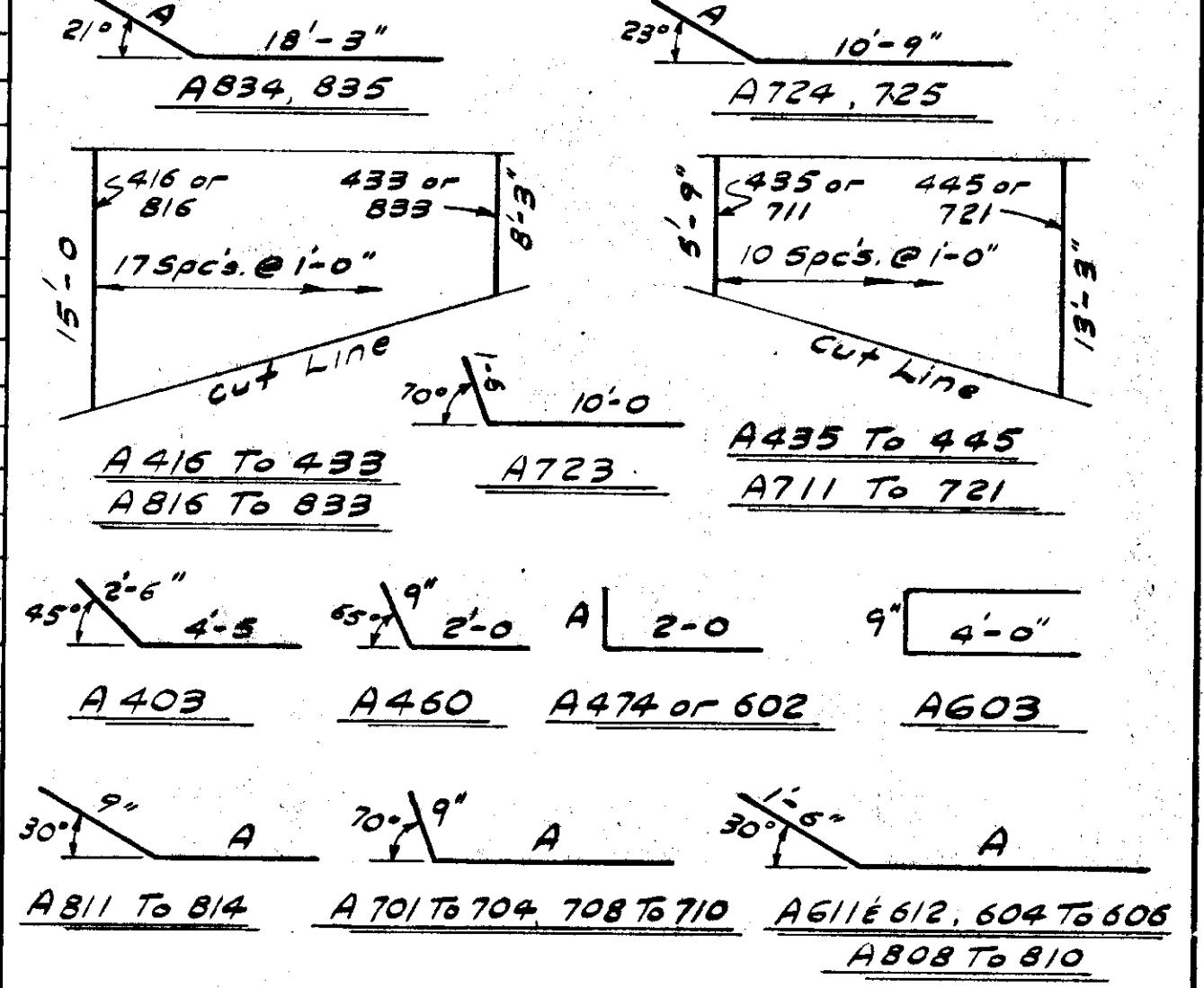
REBAR SCHEDULE - ABUTMENT 1					
MARK	NO.	Size	LENGTH	TYPE	"A"
A401	8	4	35'-0"		
402	33		5'-0"		
403	33		6'-11"	Bent	
404	29		1'-3"		
405	2		34'-6"		
406	8		33'-0"		
407	2		2'-6"		
408	2		7'-0"		
409	2		11'-6"		
410	2		16'-0"		
411	2		20'-3"		
412	2		24'-6"		
413	2		29'-3"		
414	1		16'-9"		
415 To 446	32		289'-4"		
447	1		10'-0"		
448 To 458	11		156'-9"		
459	2		12'-6"		
460	4		2'-9"	Bent	
461	6		10'-0"	Bent	8'-6"
462	3		8'-3"		
463	1		8'-0"	Bent	1'-6"
464 To 471	8		73'-0"		
472	2		8'-6"		
473	9		4'-6"	Bent	3'-0"
A474	4	4	2'-9"	Bent	0'-9"
A501	1	5	7'-0"	Bent	1'-6"
502 To 509	8	5	73'-0"		
A510	9	5	8'-6"	Bent	
A601	5	6	33'-0"		
602	34	6	2'-6"	Bent	0'-6"
A603	55	6	8'-9"	Bent	
A701	26	7	12'-6"	Bent	11'-9"
702	1		9'-6"	Bent	8'-9"
703	1		7'-3"	Bent	6'-6"
704	1		5'-0"	Bent	4'-3"
705 To 716	12		172'-6"		
717	1		12'-3"	Bent	1'-9"
718	1		11'-9"	Bent	1'-3"
719	1		9'-0"		
720	1		6'-9"		
721	1		4'-6"		
A722	15	7	11'-6"	Bent	
A801	1	8	16'-9"		
802 To 833	32	8	289'-4"		
A834	1	8	10'-0"		

REBAR SCHEDULE ABUTMENT 2					
MARK	NO.	Size	LENGTH	TYPE	"A"
A401	8	4	35'-0"		
402	33		5'-0"		
403	33		6'-11"	Bent	
404	35		1'-3"		
405	2		34'-6"		
406	2		18'-0"		
407	16		33'-0"		
408	1		14'-2"		
409	6		10'-0"		
410	7		10'-3"		
411	7		10'-6"		
412	7		10'-9"		
413	5		10'-7"		
414	1		15'-3"		
415	2		15'-2"		
416 To 433	18		209'-2"		
434	2		20'-6"		
435 To 445	11		104'-6"		
446	2		13'-0"		
460	4		2'-9"	Bent	
A474	4	4	2'-9"	Bent	0'-9"
A601	5	6	33'-0"		
602	34		2'-6"	Bent	0'-6"
603	68		8'-9"	Bent	
604	9		22'-0"	Bent	20'-6"
605	1		19'-6"	Bent	18'-0"
606	1		17'-0"	Bent	15'-6"
607	1		12'-9"		
608	1		10'-0"		
609	1		7'-6"		
610	1		5'-6"		
611	10		11'-6"	Bent	10'-0"
A612	25	6	11'-6"	Bent	10'-0"
A701	14	7	12'-6"	Bent	11'-9"
702	1		10'-3"	Bent	9'-6"
703	1		8'-3"	Bent	7'-6"
704	1		6'-0"	Bent	5'-3"
705	1		9'-6"		
706	1		7'-6"		
707	1		5'-3"		
708	2		4'-0"	Bent	3'-3"
709	2		7'-0"	Bent	6'-3"
710	2		10'-0"	Bent	9'-3"
711 To 721	11		104'-6"		
722	1		13'-9"		
A723	13	7	11'-6"	Bent	10'-0"
724	1	7	12'-6"	Bent	1'-9"
A725	1	7	12'-0"	Bent	1'-3"
A801	1	8	14'-2"		
802	6		10'-0"		
803	7		10'-3"		
804	7		10'-6"		
805	7		10'-9"		
806	5		10'-11"		
807	1		15'-3"		
808	9		21'-6"	Bent	20'-0"
809	1		19'-0"	Bent	17'-6"
810	1		16'-3"	Bent	14'-9"
811	1		13'-0"	Bent	12'-3"
812	1		10'-3"	Bent	9'-6"
813	1		7'-9"	Bent	7'-0"
814	1		5'-9"	Bent	5'-0"
815	2		15'-2"		
816 To 833	18		209'-2"		
834	1		20'-9"	Bent	2'-6"
A835	1	8	19'-9"	Bent	1'-6"

REBAR DETAILS ABUTMENT 1



REBAR DETAILS ABUTMENT 2



AS ADVERTISED

No Change

HARRIS RIVER BRIDGE

ROUTE No. S-924

ABUTMENT DETAILS

State of Alaska

DEPARTMENT OF HIGHWAYS

Juneau, Alaska

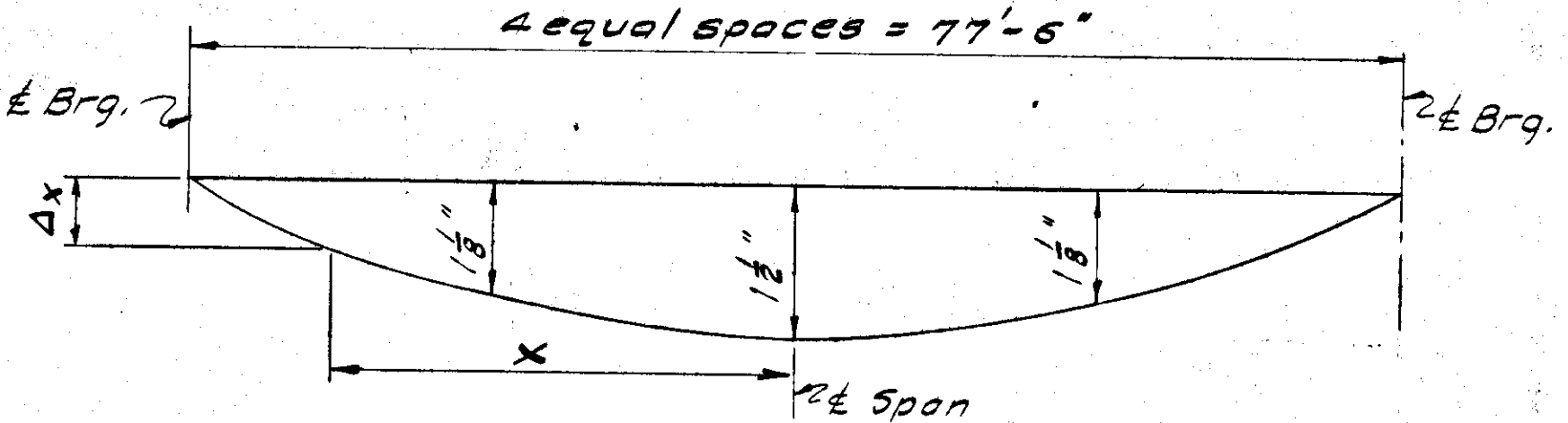
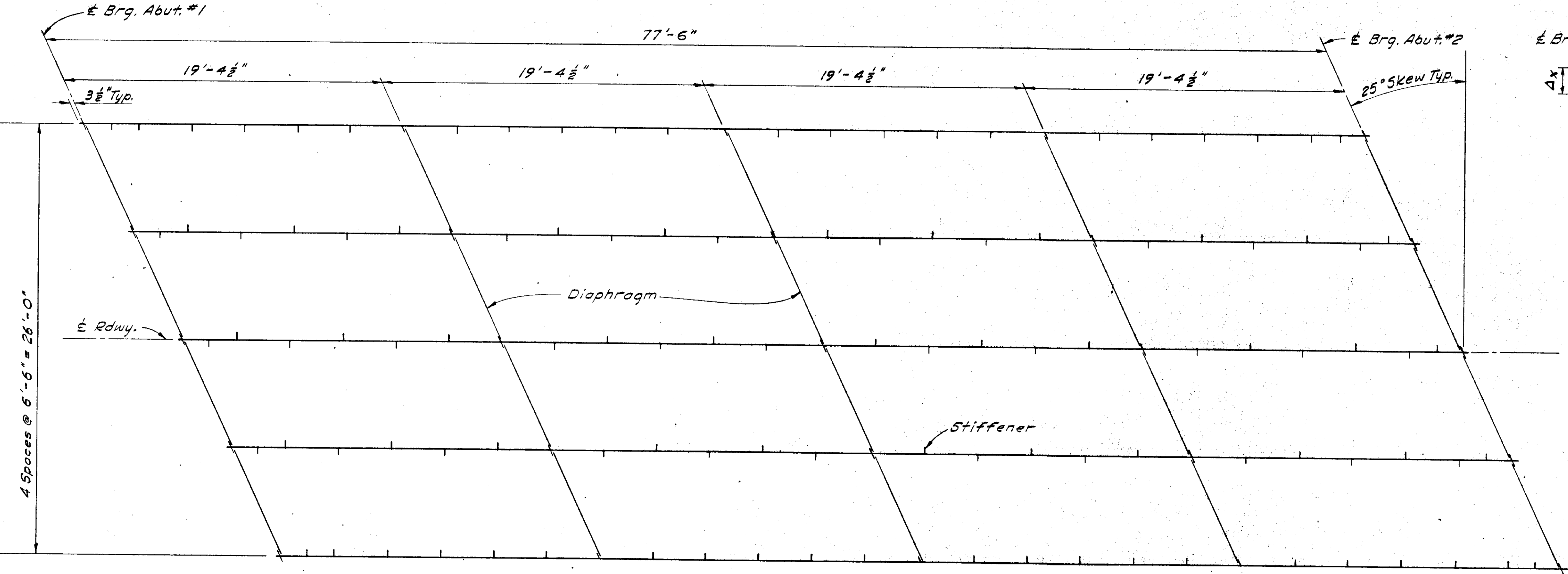
BRIDGE NO. **481**

DWG. NO. **1775**

Date **3-2-67**

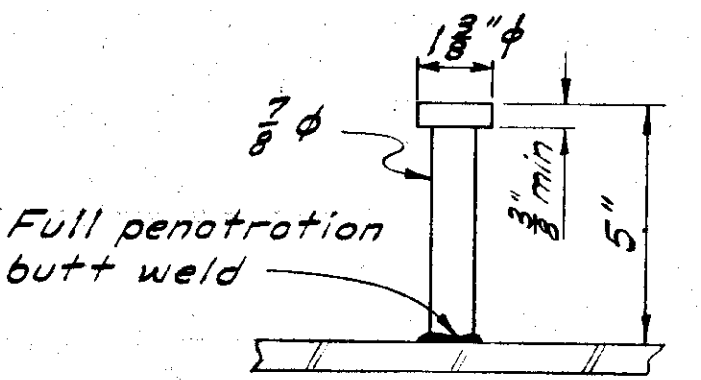
Approved *[Signature]*

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	36	50



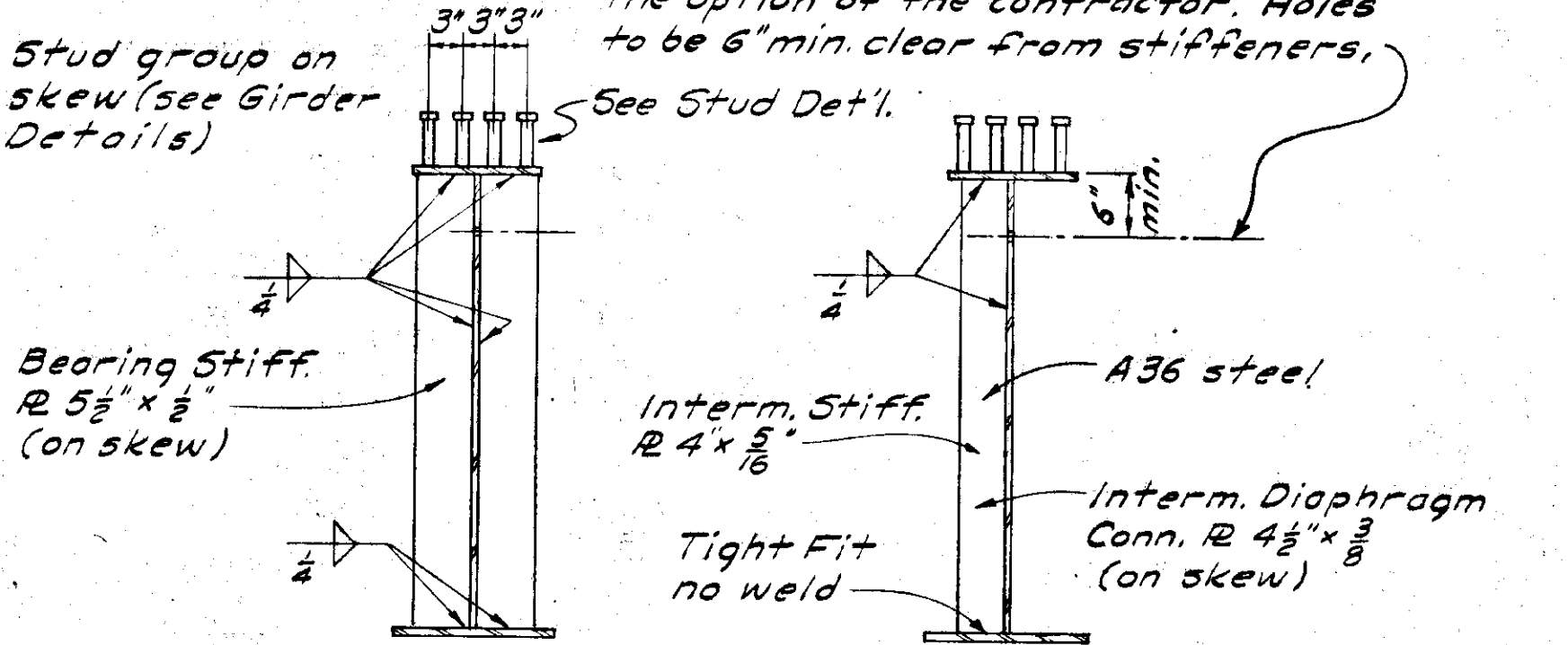
DEAD LOAD DEFLECTION DIAGRAM FOR DECK SLAB

The above corrections shall be applied in the field. For points other than those shown:
 $\Delta x = 1.50'' - (0.001x^2)$
where x is in feet, Δx is in inches.
Girders may be fabricated straight without camber. (The total dead load deflection at midspan is $1\frac{1}{8}''$ and the vertical sag correction is $2\frac{1}{8}''$.)



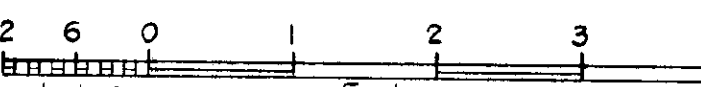
STUD DETAIL

1' max. dia holes @ 4'-0" spacing may be used for falsework support at the option of the contractor. Holes to be 6" min. clear from stiffeners.



NEAR BEARINGS INTERMEDIATE

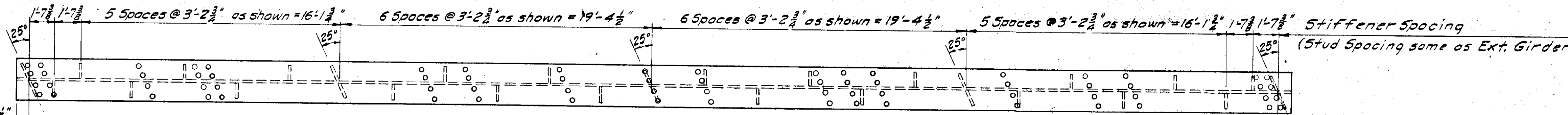
STIFFENER DETAILS



AS ADVERTISED

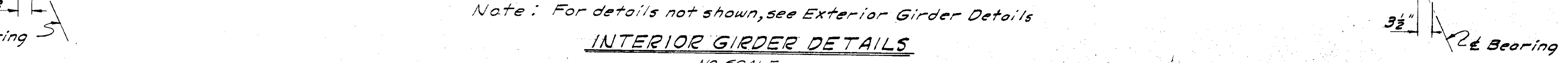
EXTERIOR GIRDER DETAILS

No Scale



INTERIOR GIRDER DETAILS

No Scale



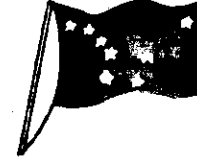
Note: For details not shown, see Exterior Girder Details

No Change

HARRIS RIVER BRIDGE
ROUTE No. S-924
FRAMING PLAN

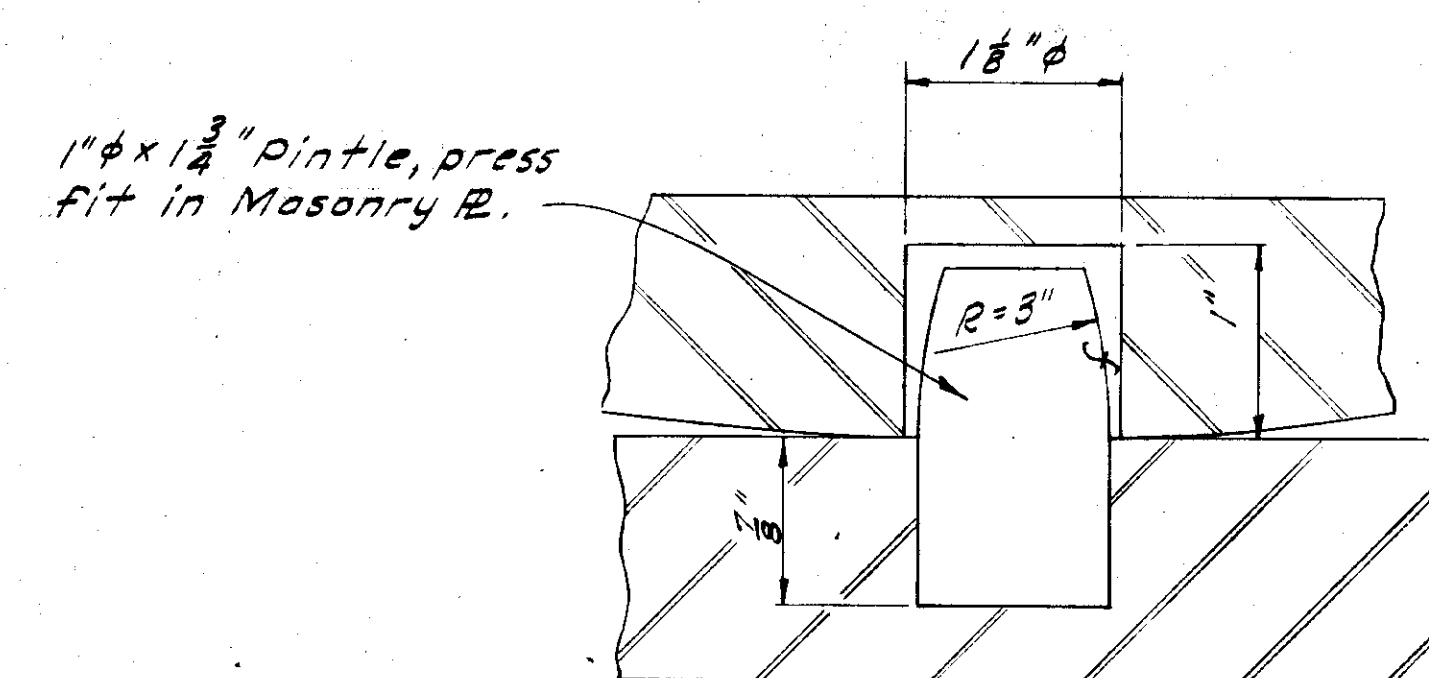
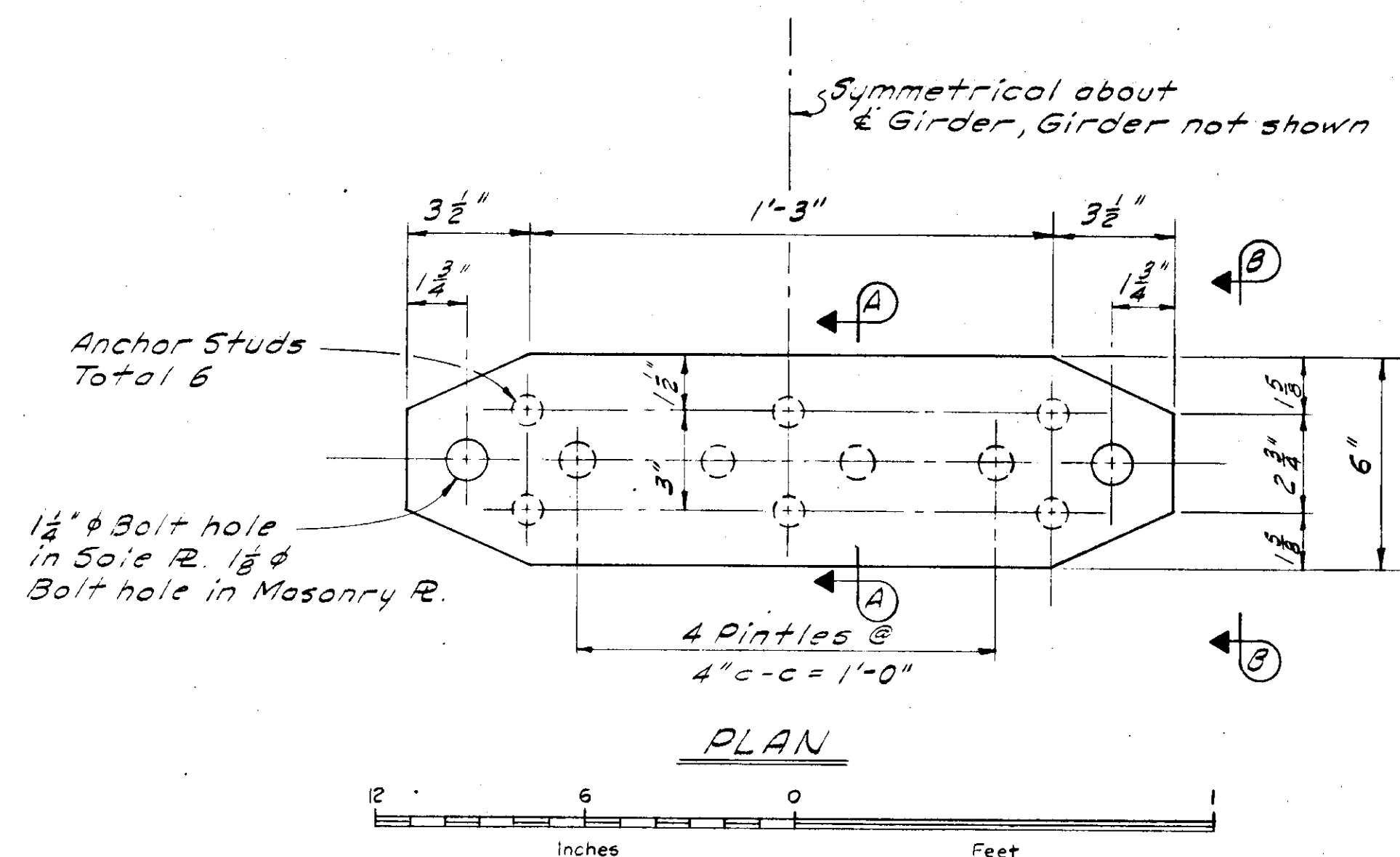
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 3-2-67
Approved [Signature]



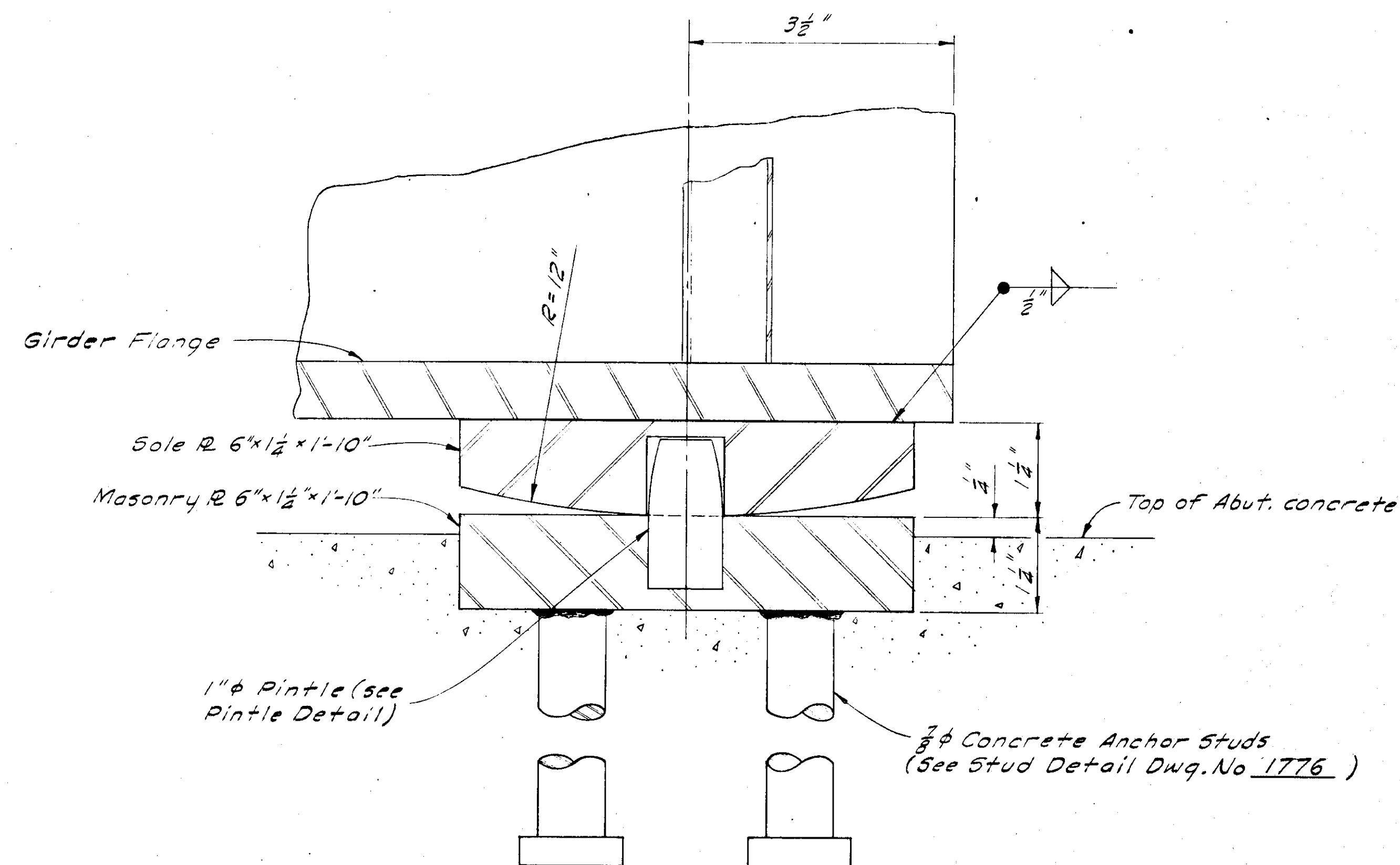
BRIDGE NO. 481
DWNG. NO. 1776

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	1967	38	50

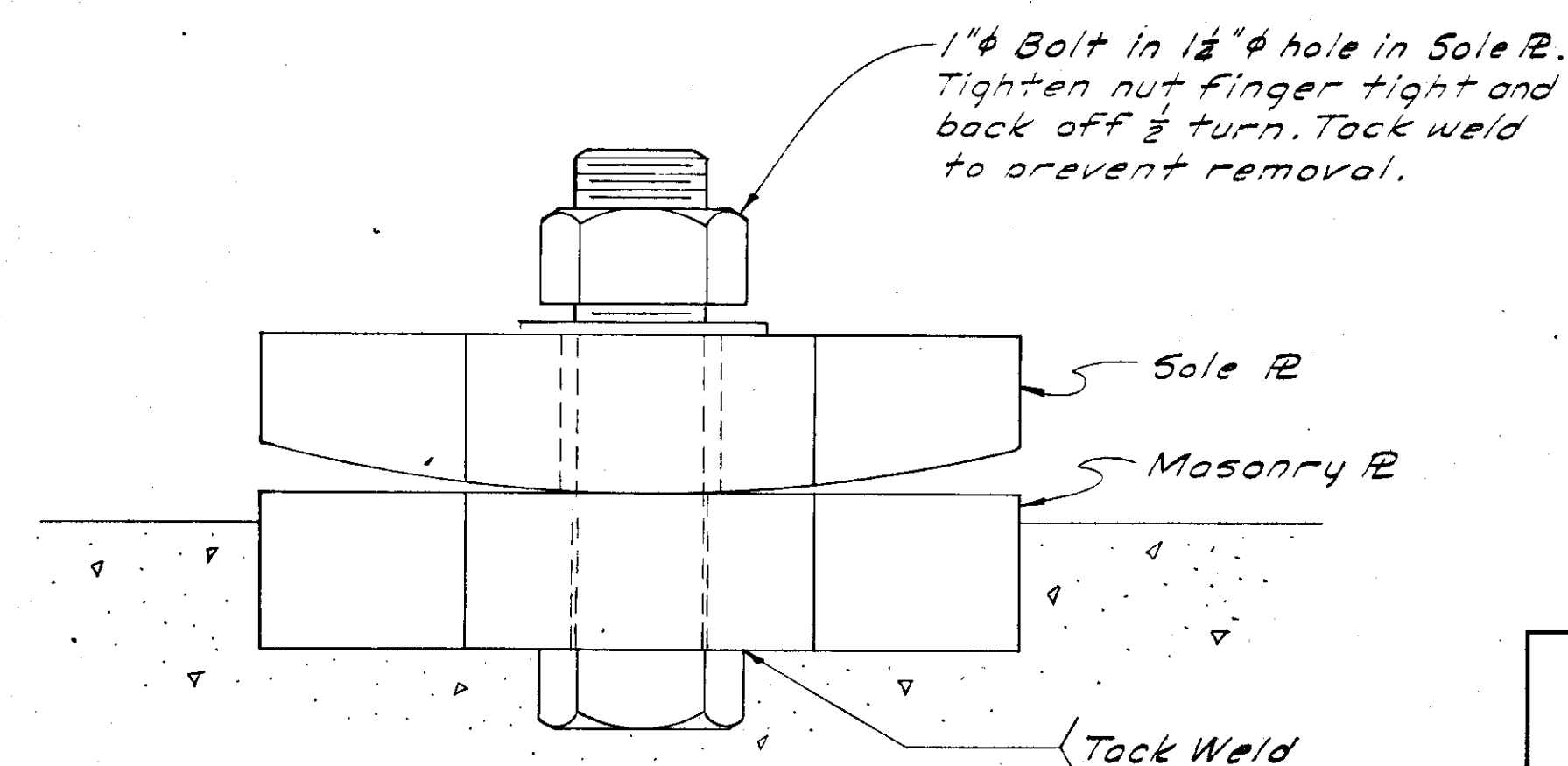


PINTLE DETAIL
Full Scale

Note: Pintles shall be A108 Class C1030, Rockwell
"B" hardness 85 with a minimum yield of 36,000
psi.
Sole Plates and Masonry Plates shall be A-36 steel.



SECTION A-A
No Scale



VIEW B-B
No Scale

AS ADVERTISED

HARRIS RIVER BRIDGE
ROUTE No. S-924
BEARING DETAILS

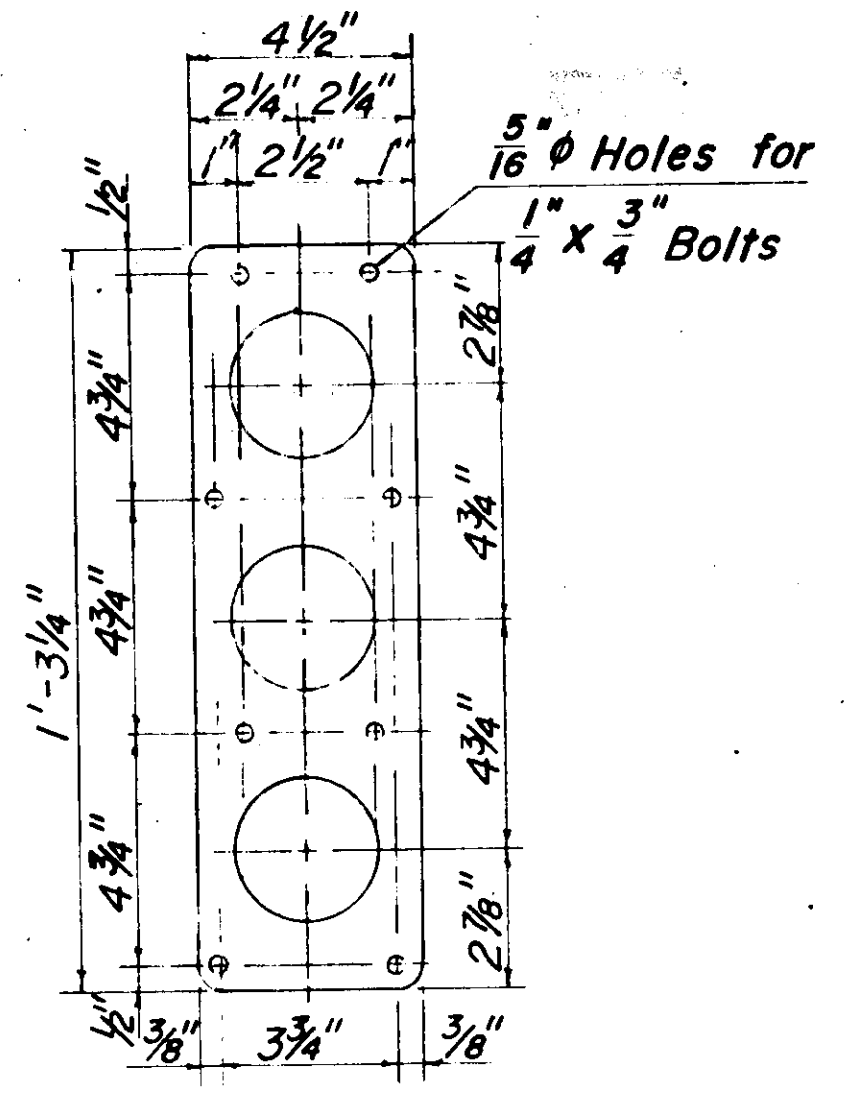
State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 3-2-67
Approved [Signature]

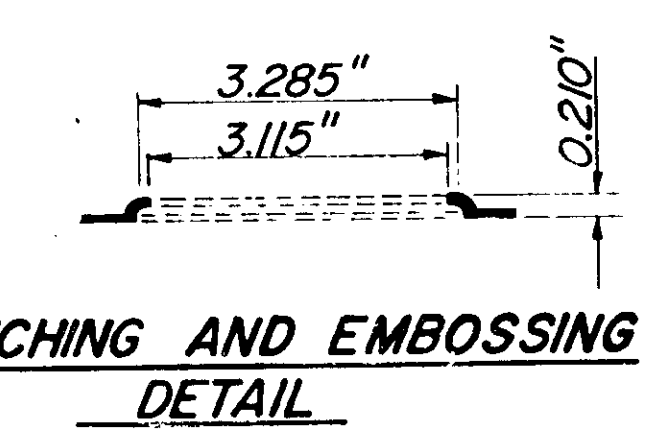


BRIDGE NO. 481
DWNG. NO. 1778

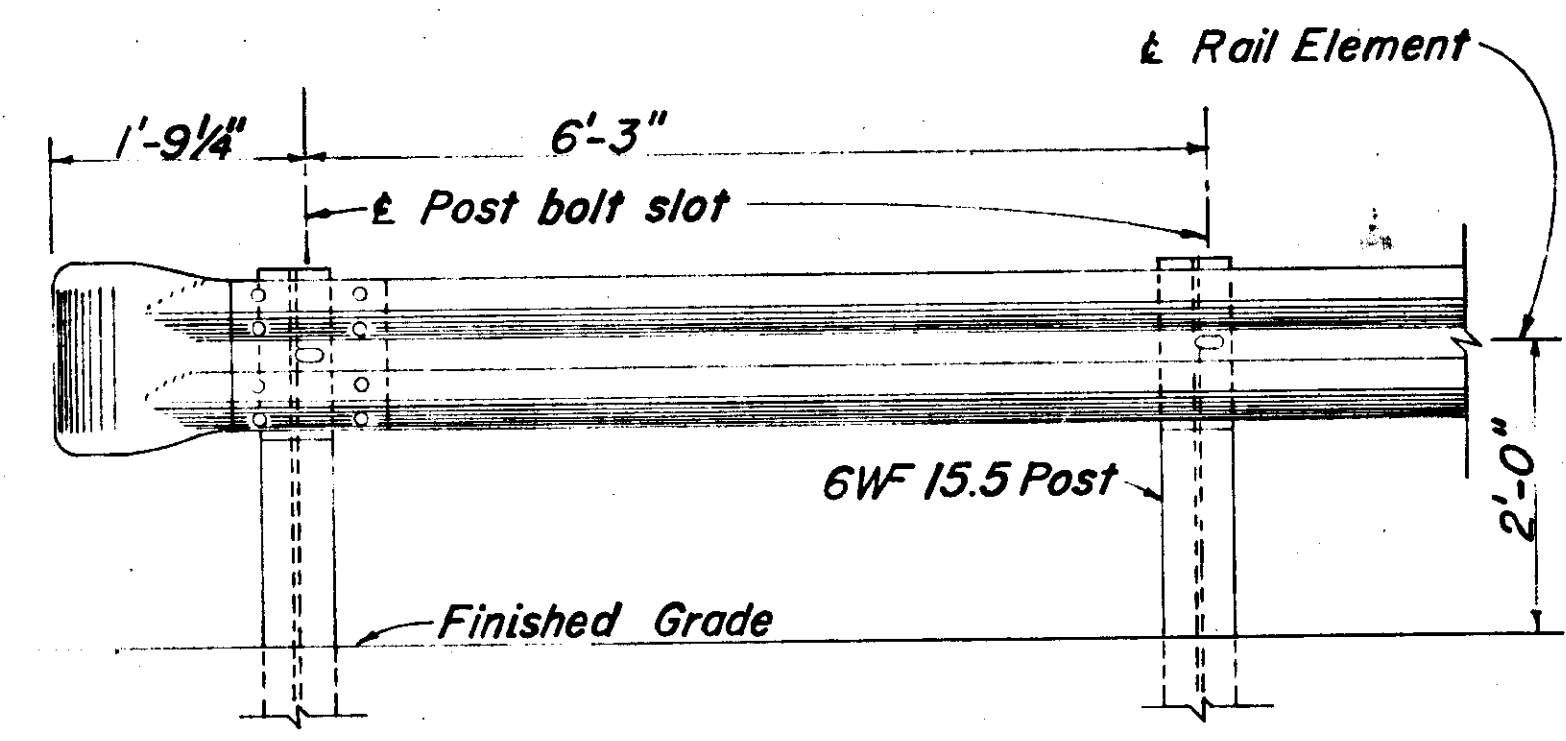
No Change



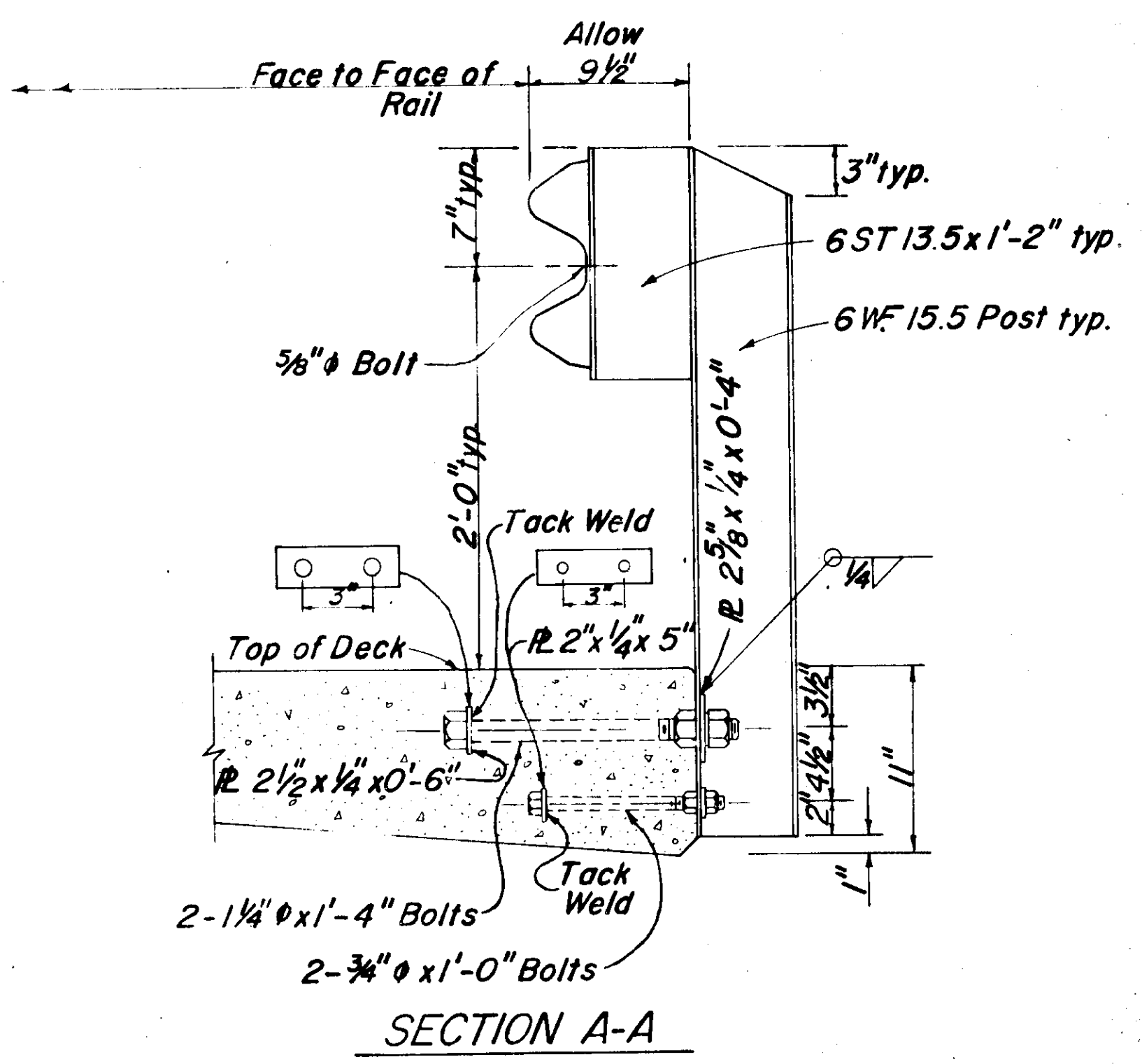
REFLECTOR FRAME



RAIL REFLECTOR
(2 Required)

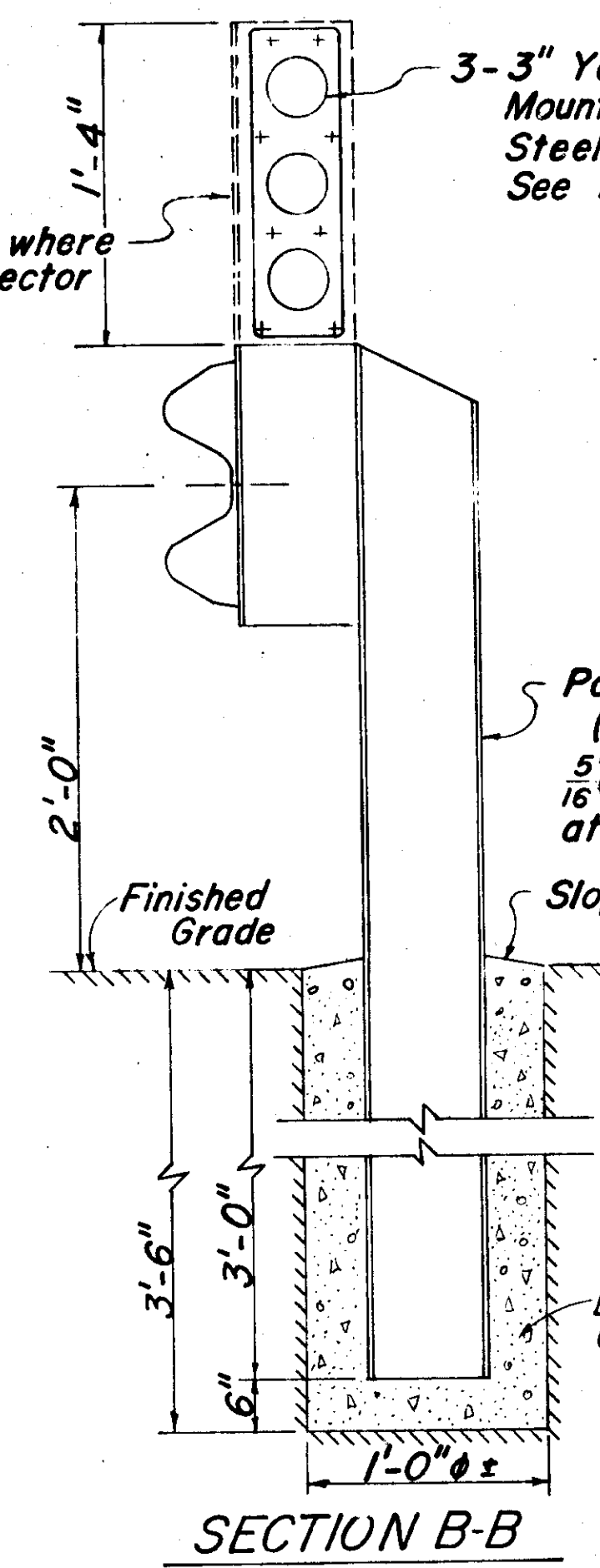


RAIL ELEVATION

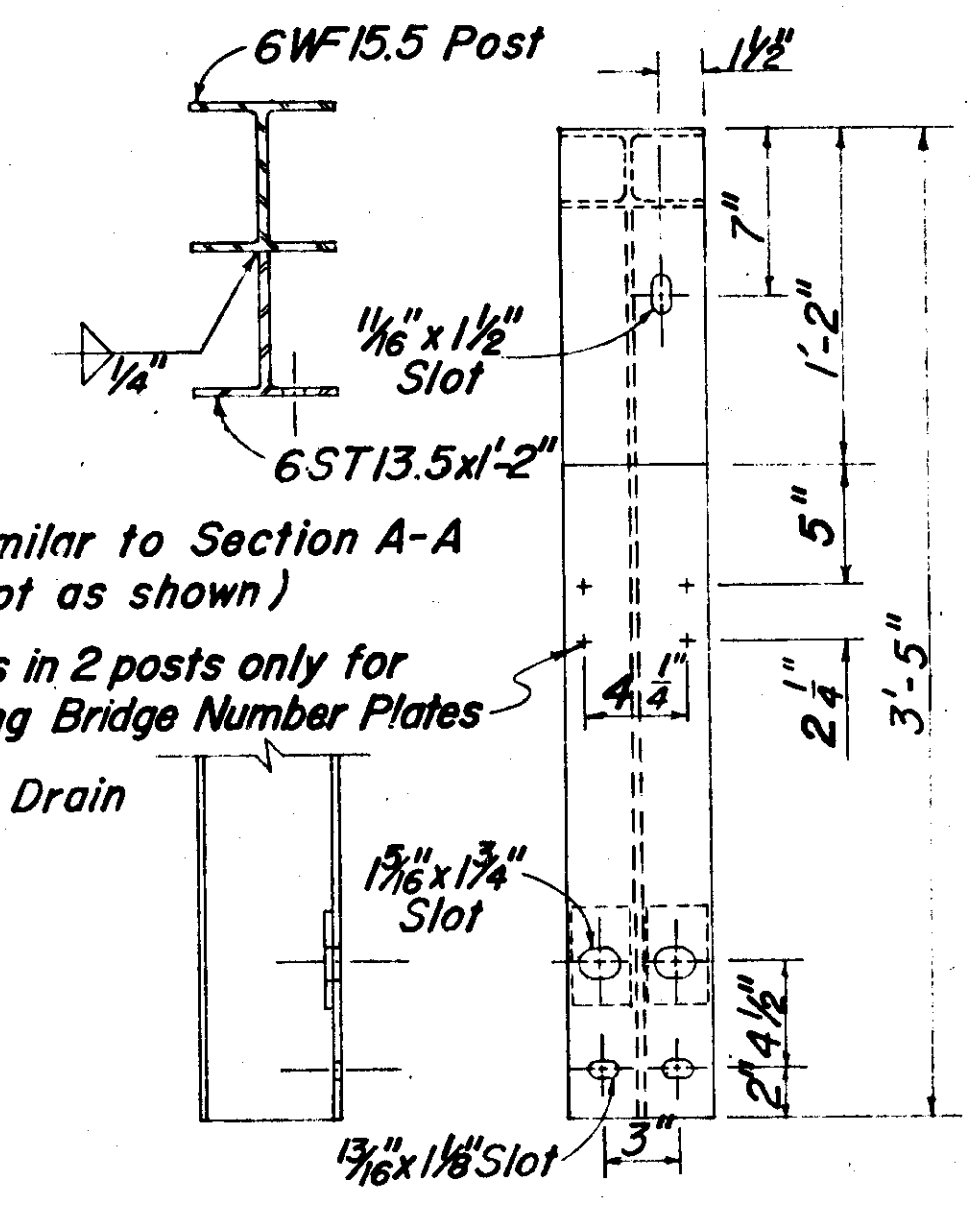


SECTION A-A

Extend 6ST13.5 where required for reflector assembly.



SECTION B-B



AS ADVERTISED

HARRIS RIVER BRIDGE
ROUTE No. S-924
STEEL BEAM BRIDGE RAILING

BRIDGE No. 481

State of Alaska
DEPARTMENT OF HIGHWAYS
Juneau, Alaska

Date 3-2-67
Approved [Signature]

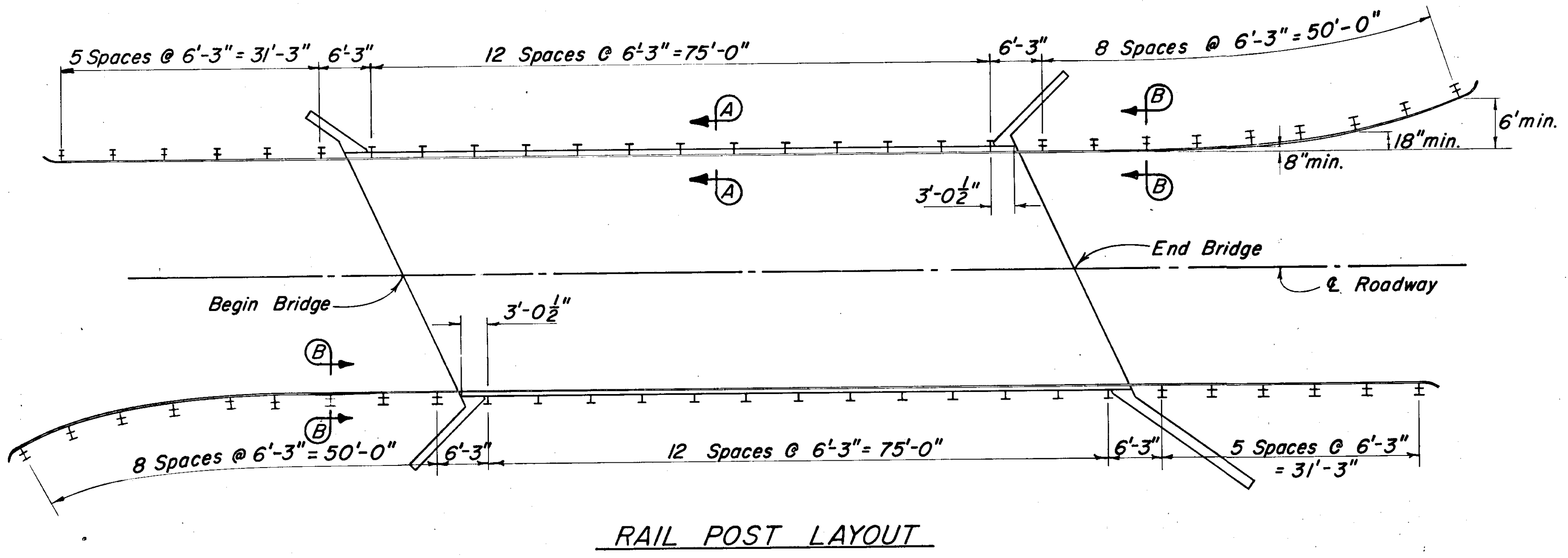
DWG. NO. 1779

Notes: At rail splice nearest expansion joint in bridge deck, slot holes in movable section of rail to allow same amount of movement as provided in bridge deck. Place 1/16" asbestos sheet packing between rail elements. Adjust bolts to provide sliding fit and set threads. Provide lock washers for top anchor bolts & cut washers for bottom anchor bolts. Contractor to provide metal shims to align posts.
All anchor bolt assemblies are to be galvanized after fabrication.
One reflector assembly shall be placed as shown at each end of the bridge to the right of and facing approaching traffic

A State furnished Bridge Number Plate shall be placed to the right of approaching traffic at each end of the Bridge on the first rail post which is bolted to concrete.

No Change

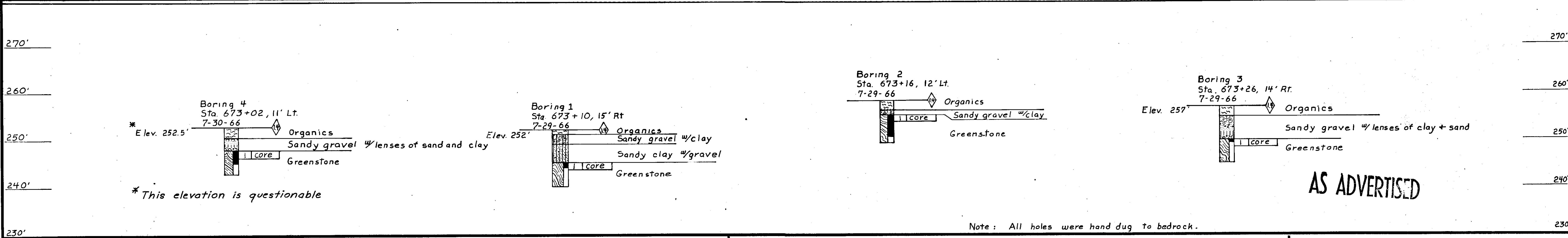
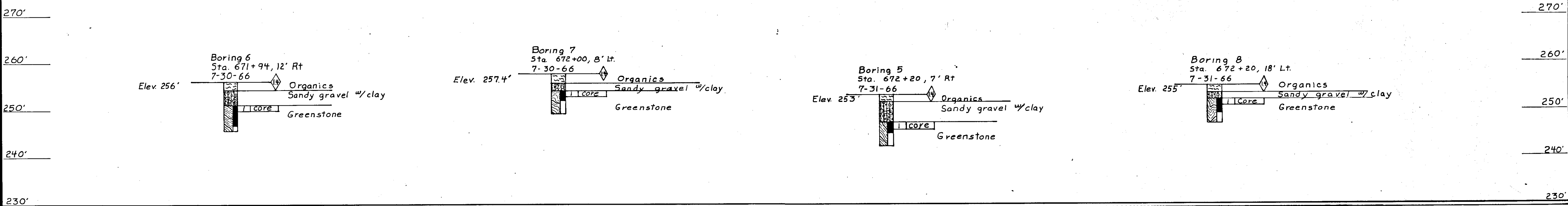
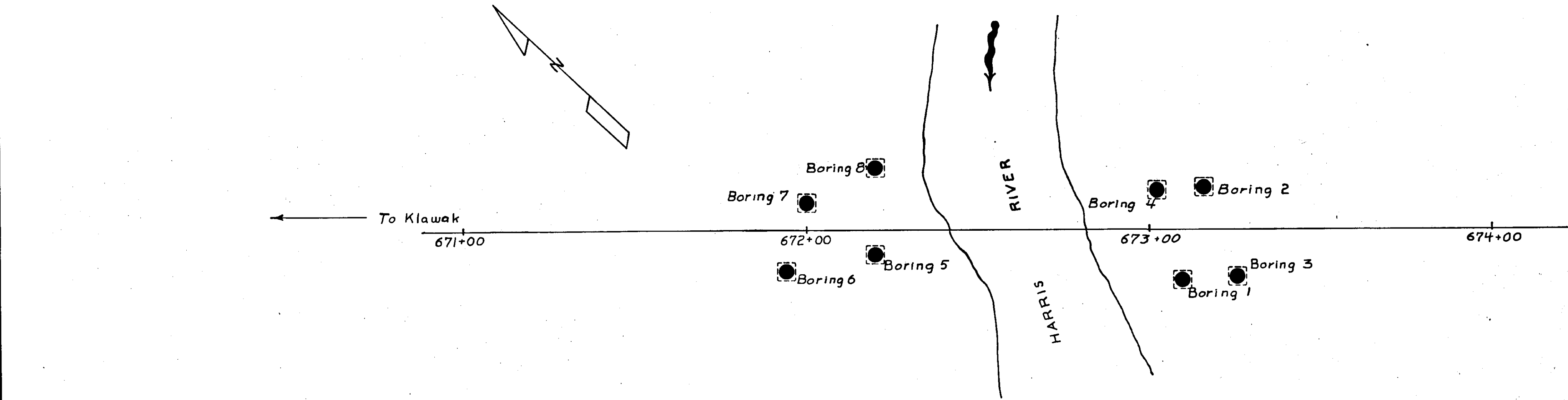
REVISIONS		
No.	Date	Description



RAIL POST LAYOUT

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
ALASKA	S-0924(4)	40	50

NOTE: Logs of Borings are provided for information and represent the sub-surface conditions at the point drilled only.



AS ADVERTISED

Note: All holes were hand dug to bedrock.

LEGEND OF EARTH MATERIALS			
MATERIAL SYMBOLS CONSISTENCY CLASSIFICATION			
According to the Standard Penetration Test			
	No of blows	Granular	Cohesive
Cobbles or Boulders			
Sandy gravel	0-5	very loose	very soft
Sand	6-10	loose	soft
Silt	11-20	slightly compact	stiff
Clay	21-35	compact	very stiff
Peat and/or organic matter	36-70	dense	hard
Fill material	70+	very dense	very hard
Sedimentary rock			
Metamorphic rock			
Igneous rock			

LEGEND OF BORING OPERATIONS			
ROTARY BORING			
PENETRATION TEST			
Boring no. Location Date			
Elev.			
Plan of any boring			
Flush penetrometer			
Bull nose penetrometer			
Rotary boring			
Auger boring			
Jet boring			
Diamond core boring			
Test pit			
Probe			
Graphic description of material			
Casing set			
Ground water surface			
Consolidation test			
Direct shear test			
Triaxial compression test			
Vane shear test			
Sample no.			
Blows/H., P. pushed			
Soil classification			
Gradational material change			
Strata change			
Interval sampled w/ Interval recovered blocked in.			
ST-Shelby tube sampler, O.D., pushed			
SP-Standard penetration sampler (2" O.D. x 14" I.D. split spoon sampler) (driven w/ 140# hammer, 30" drop)			
Graphic representation of driving rate			
Blows/foot Penetrometer w/ # Hammer, 30" drop			

HARRIS RIVER BRIDGE

ROUTE No.S-924

LOG OF TEST BORINGS

BRIDGE NO. 481

State of Alaska

DEPARTMENT OF HIGHWAYS

Juneau, Alaska

Date 9-13-66

Approved RRM

Drawing no. 1780