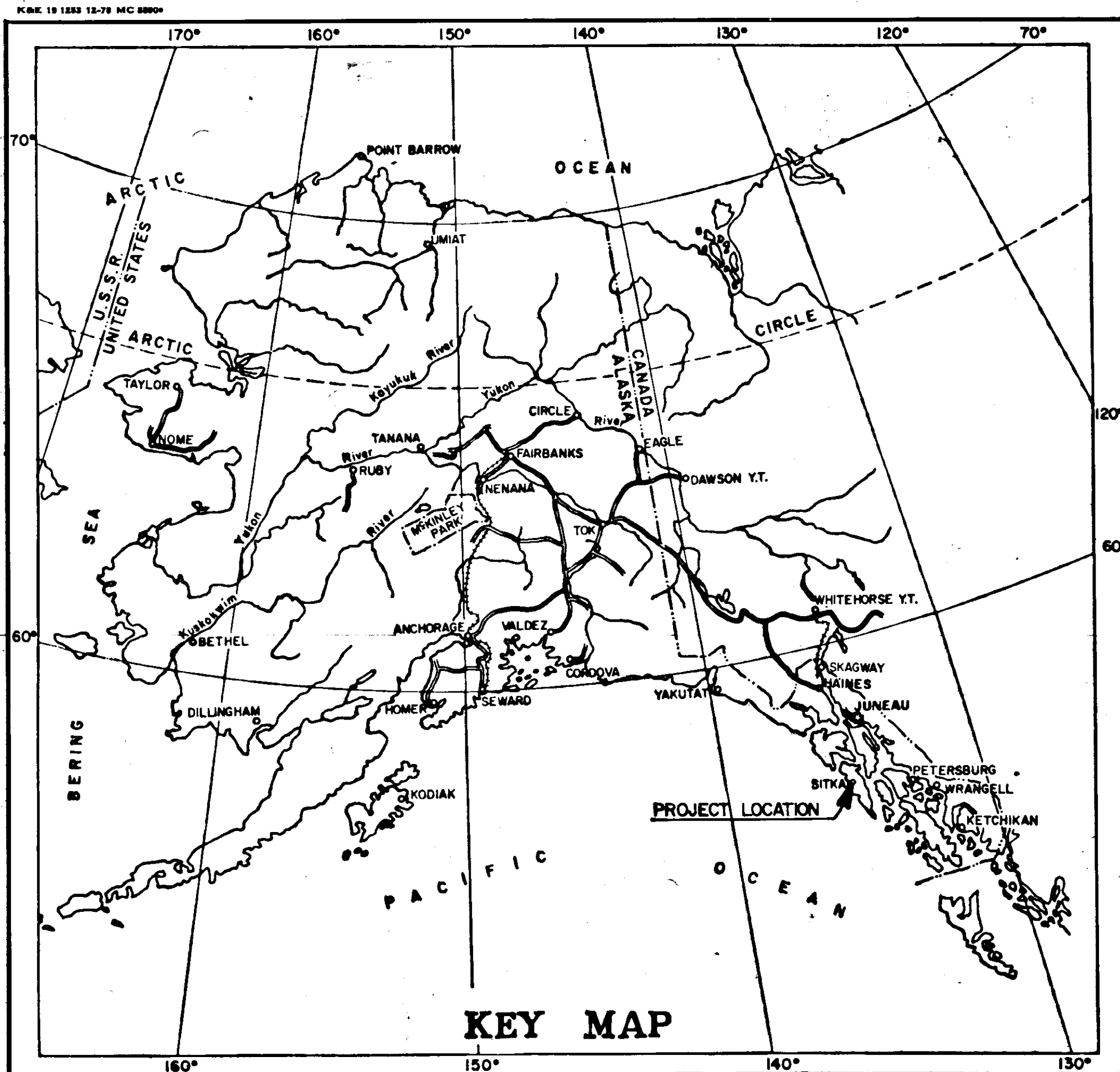




STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT SITKA FERRY TERMINAL TO CAMPGROUND FH-II-1(4) (E30062) GRADING, DRAINAGE AND PAVING A-87281 SAWMILL CREEK ROAD PAVING A-87291

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	FH-II-1(4), A87281 A87291	7	8

INDEX OF SHEETS	
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES A-87281
3	TYPICAL SECTION, EST. OF QUANT., SUMMARY TABLES A-87291
4	TYPICAL SECTION, EST. OF QUANT., SUMMARY TABLES FH-II-1(4)
5	TYPICAL SECTION, EST. OF QUANT., SUMMARY TABLES
6-8	PLAN & PROFILE

THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT:
A-1, C-01.01, C-02.00, C-03.01, D-01.00, D-04.01, G-04.01 S,
G-04.01 W, G-14.02 S, G-14.01 W, G-24.01 S, G-24.01 W, I-40.00,
M-16.00, S-00.00, S-05.00, S-30.01, T-21.00

DESIGN DESIGNATION

FH-II-1(4)	
ADT 1984	516
ADT 2005	630
DHV 11%	69
%T	2%
Traffic Index	5.5

A-87281	
ADT 1984	4,557
ADT 2005	5,560
DHV 12%	667
%T	7%
Traffic Index	8.5

A-87291	
ADT 1984	1,943
ADT 2005	2,371
DHV 12%	285
%T	5%
Traffic Index	7.0

PROJECT SUMMARY

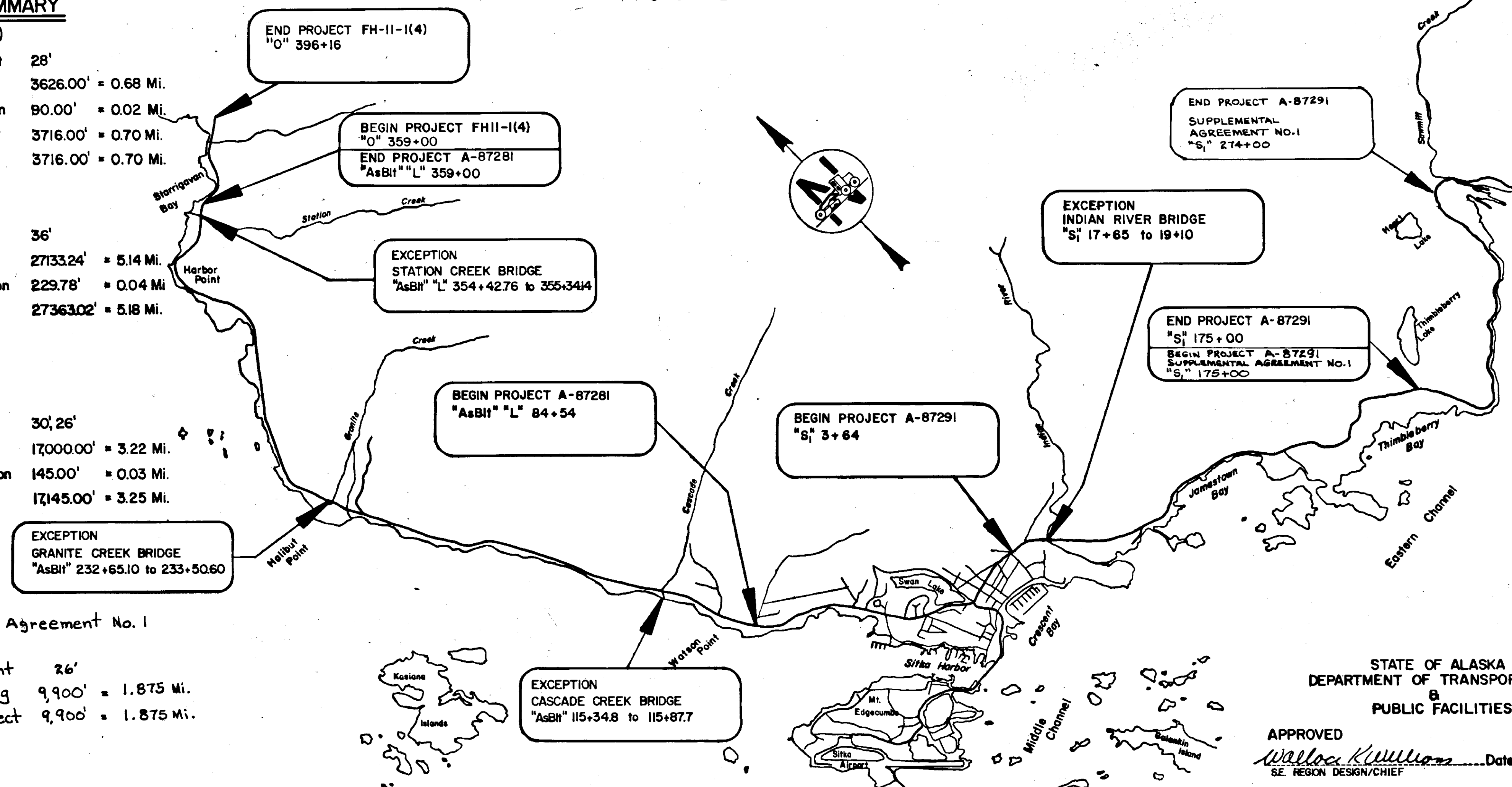
FH-II-1(4)	
Width of Pavement	28'
Length of Grading	3626.00' = 0.68 Mi.
Length of Exception	90.00' = 0.02 Mi.
Length of Paving	3716.00' = 0.70 Mi.
Length of Project	3716.00' = 0.70 Mi.

A-87281	
Width of Pavement	36'
Length of Paving	27133.24' = 5.14 Mi.
Length of Exception	229.78' = 0.04 Mi.
Length of Project	27363.02' = 5.18 Mi.

A-87291	
Width of Pavement	30', 26'
Length of Paving	17,000.00' = 3.22 Mi.
Length of Exception	145.00' = 0.03 Mi.
Length of Project	17,145.00' = 3.25 Mi.

Supplemental Agreement No. 1

A-87291	
Width of Pavement	26'
Length of Paving	9,900' = 1.875 Mi.
Length of Project	9,900' = 1.875 Mi.



"AS-BUILT"

CONTRACTOR: ASSOCIATED SAND & GRAVEL, INC.

PROJECT ENGINEER: PHIL SPEER

BEGIN CONSTRUCTION: AUGUST 3, 1985

COMPLETE CONSTRUCTION: OCTOBER 24, 1985

Phil Speer 12/12/85

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
Wallace K. Williams Date 4/9/85
SE REGION DESIGN/CHIEF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
Phil Speer Date 4-9-85
SE REGION DIRECTOR, HIGHWAY DESIGN/CONST.

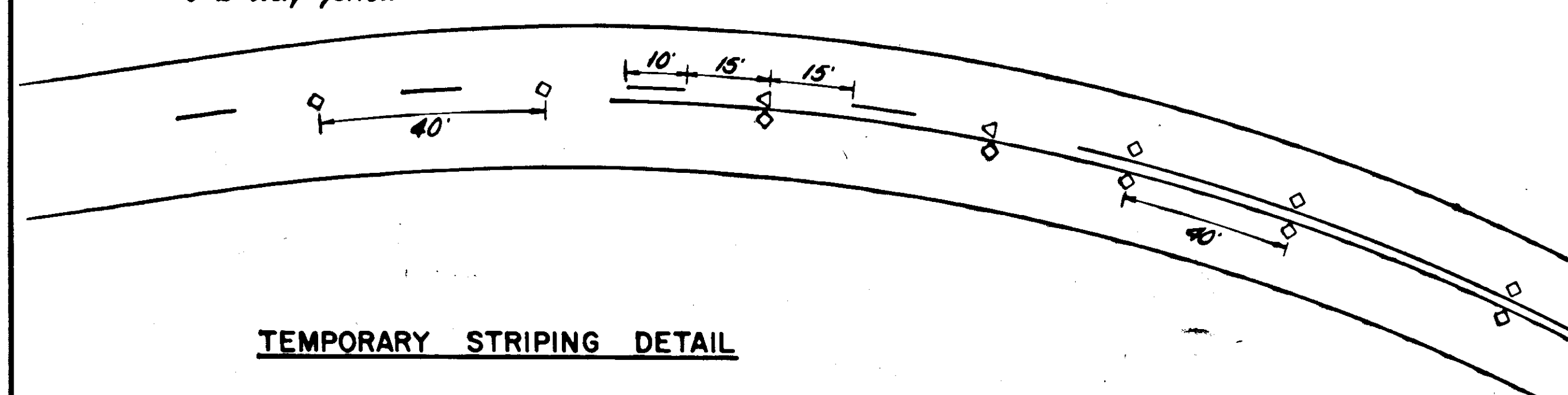
ESTIMATE OF QUANTITIES								
ITEM NO.	ITEM	UNIT	A87281	A87291	FH-II-1(4)	TOTAL	TOTAL	
			QUANTITY	QUANTITY	QUANTITY			
109 (2)	DBE & WBE Adjustments	C.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
110 (2)	Mobilization & Demobilization	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
111 (1)	Temporary Erosion & Pollution Control	C.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
114 (1)	Construction Surveying by the Contractor	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
115 (1)	Traffic Maintenance	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
116 (1)	Furnishing & Maintaining Field Office	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
116 (2)	Furnishing & Maintaining Field Laboratory	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
203 (3)	Unclassified Excavation EWO NO.1	C.Y.-L.S.		1786 All Req'd.		1786	All Req'd.	
203 (3B)	Borrow Type A EWO NO. 4	Ton-L.S.			837 All Req'd.	837	All Req'd.	
301 (1)	Crushed Aggregate Base Course C.O. No.1 & 2	Ton	980-3,032.9	3480-2,845.28	4735-4,921.47	9195	12,109.15	
303 (1)	Reconditioning	Sta.			37 /	37 /		
401 (1)	Asphalt Concrete, Type II	Ton		6589-7,069.3	1322-1,489.16	7911	12,328.56	
401 (1a)	Asphalt Concrete, Type III	Ton	8371-9,244.52			8371	9,244.52	
401 (2)	AC-5 Asphalt Cement	Ton	586-531,799	395-407,873	79.3-87,729	1060.3	1,245.011	
402 (1)	CSS-1 Asphalt for Tack Coat	Ton	44.5-27.0	49.4-20.0		63.9	49.93	
403 (2)	MC-30 Liquid Asphalt for Prime Coat	Ton			4.8-8.84	4.8-8.84		
509 (1)	Deck Protection	L.S.			All Req'd.	All Req'd.		
603 (13-20)	24 Inch Corrugated Aluminum Pipe	L.F.			108-135	108	135	
603 (13-60)	60 Inch Corrugated Aluminum Pipe	L.F.			64-84	64	84	
604 (4)	Adjust Existing Manholes	Ea.	47-50	20-40		67	90	
606 (1)	Beam Type Guard Rail, Type I Post EWO NO.7	L.F.	275.0		1000-937.5	1000	1,212.5	
606 (4)	Removal & Reconstruction of Guard Rail	L.F.			1325 /	1325 /		
606 (6)	End Anchorages	Ea.			2 /	2 /		
611 (2)	Riprap, Class II	C.Y.			366-1,531.1	366	1,531.1	
614 (1)	Survey Monuments	Ea.			9 /	9 /		
614 (2)	Monument Cases	Ea.			9 /	9 /		
614 (4)	Adjust Existing Monument Cases	Ea.	29-27	21-18		50	45	
615 (1)	Standard Signs	S.F.		25 /		25 /		
639 (1)	Approaches	Ea.	235-252	138-150	3-11	376	417	
670 (1)	Painted Traffic Markings	L.S.	All Req'd.	All Req'd.	All Req'd.	All Req'd.		
670 (7)	Raised Pavement Markers	Ea.	571-577	464-476	129-100	1164	1,491	
114 (1A)	EWO NO. 6 Construction Engineering by the Contractor	L.S.			All Req'd.	All Req'd.		

Total Includes Supplemental Agreement

SUPPLEMENTAL AGREEMENT NO.1			
ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	AB7291
			QUANTITY
110(2)	Mobilization & Demobilization	L.S.	All Req'd.
111(1)	Temporary Erosion & Pollution Control	C.S.	All Req'd.
114(1)	Construction Surveying by the Contractor	L.S.	All Req'd.
115(1)	Traffic Maintenance	L.S.	All Req'd.
116(1)	Furnishing & Maintaining Field Office	L.S.	All Req'd.
116(2)	Furnishing & Maintaining Field Laboratory	L.S.	All Req'd.
203(3A)	Unclassified Excavation	L.S.	All Req'd.
301(1)	Crushed Aggregate Base Course	Ton	1,309.54
401(1)	Asphalt Concrete, Type II	Ton	3,771.10
401(2)	AC-5 Asphalt Cement	Ton	217.61
402(1)	CSS-1 Asphalt for Tack Coat	Ton	2.93
639(1)	Approaches	Ea.	4
670(1)	Painted Traffic Markings	L.S.	All Req'd.
670(2)	Raised Pavement Markers	Ea.	338

1. One lane of traffic shall be maintained at all times. Detours around the work area shall be in accordance with Standard Drawing C-03.01. Two lane roadway - single lane closure, Typical lane closure - short duration.
2. Installation methods for Raised Pavement Markers (RPM's) shall be in accordance with manufacturer's recommendations.
3. Epoxy adhesive shall be standard set type. Temperature and curing times shall be as recommended by the adhesive manufacturer.
4. Raised Pavement Markers will not be installed within the limits of intersecting streets.
5. If concrete markers are used, ~~markers~~ shall be Magnesium Phosphate Set 45 or equivalent.
6. All locations for RPM's shall be approved by the project engineer after staking by the contractor.

△-1 Way Yellow
○-2 Way Yellow



TEMPORARY STRIPING DETAIL

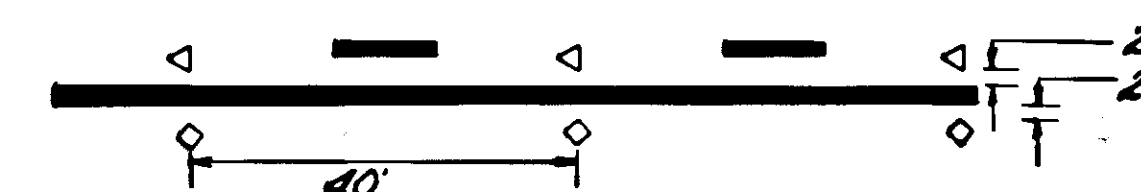


4"x1' Reflective Yellow Strips (Typ.), Installed within 24 hours unless permanent pavement markings are installed within 24 hours. This work will not be measured for payment but will be considered incidental to Item 670(1), Painted Traffic Markings.

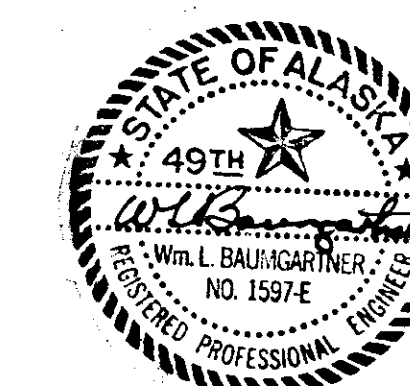
4" Solid Yellow Stripe

40' 40'

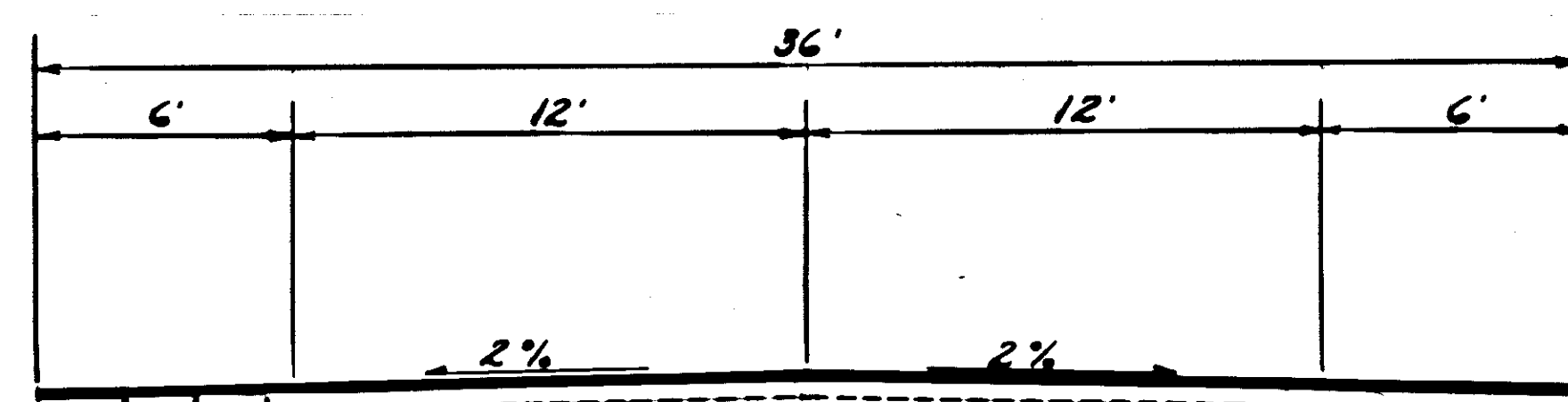
NO PASSING ZONE PLACEMENT DETAIL



12/12/85



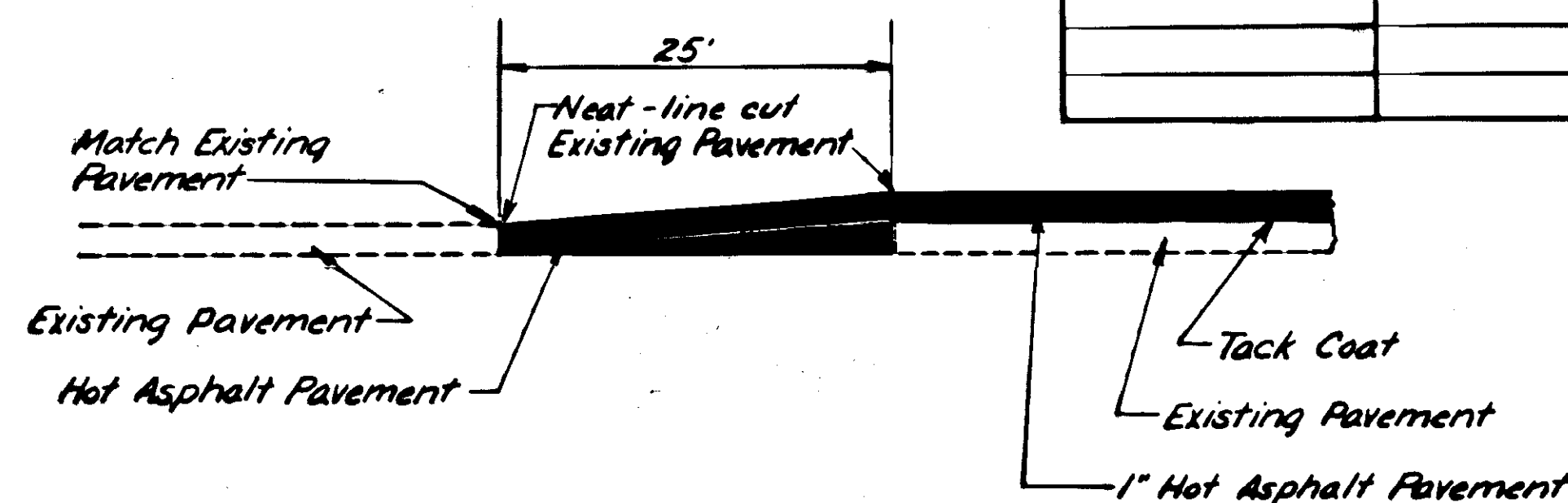
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	A-87281	1985	3	8



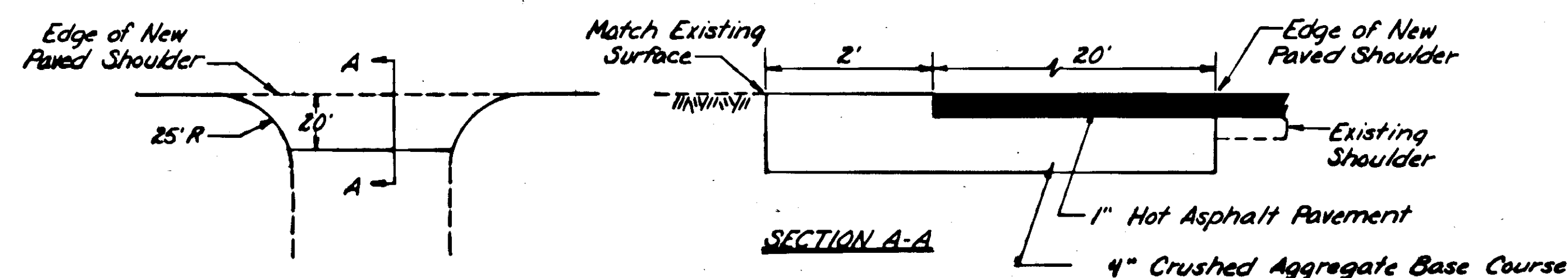
- Existing Pavement
- CSS-1 Emulsified Asphalt for Tack Coat
- 1" Hot Asphalt Pavement

TYPICAL SECTION

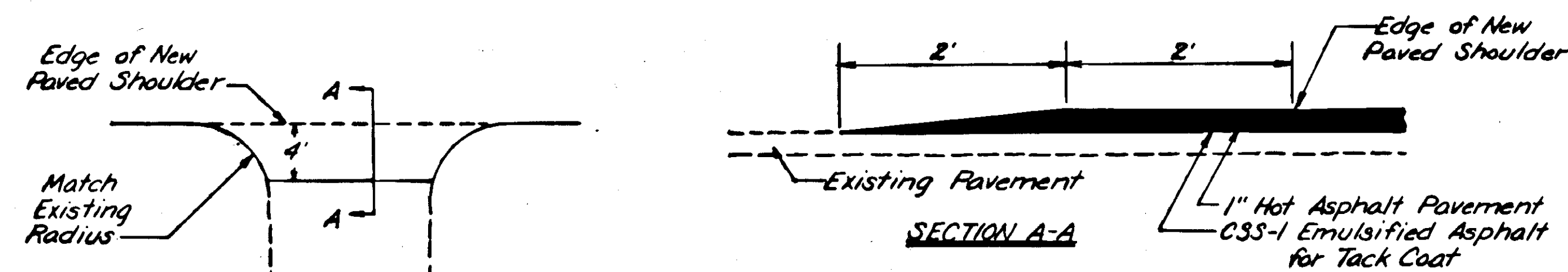
BASIS OF ESTIMATE	
ITEM NO.	ESTIMATING FACTOR
301 (1)	1.96 Tons per Cu. Yard
401 (1)	114.4 lbs. per sq. Yd. Inch Depth
401 (2)	7 % of Item 401 (1)
402 (1)	0.10 gals. per Sq. Yd. /
	253 gals. per Ton



PAVEMENT TRANSITION DETAIL



TYPICAL UNPAVED INTERSECTION & APPROACH SURFACING DETAIL



TYPICAL PAVED INTERSECTION & APPROACH SURFACING DETAIL

ESTIMATE OF QUANTITIES*

ITEM NO.	ITEM	UNIT	QUANTITY
109(2)	DBE & WBE Adjustments	C.S.	All Reg'd
110 (1)	Mobilization	L.S.	All Reg'd
111 (1)	Temporary Erosion & Pollution Control	C.S.	All Reg'd
114 (1)	Construction Surveying by the Contractor	L.S.	All Reg'd
115 (1)	Traffic Maintenance	L.S.	All Reg'd
116 (1)	Furnishing & Maintaining Field Office	L.S.	All Reg'd
116 (2)	Furnishing & Maintaining Field Laboratory	L.S.	All Reg'd
301(1)	Crushed Aggregate Base Course	Ton	-980-
401(1a)	Asphalt Concrete, Type III	Ton	8371
401(2)	AC-5 Asphalt Cement	Ton	-586-
402 (1)	CSS-1 Asphalt for Tack Coat	Ton	44.5
604 (4)	Adjust Existing Manholes	Ea.	47
614 (4)	Adjust Existing Monument Cases	Ea.	-29-
639 (1)	Approaches	Ea.	-235-
670 (1)	Painted Traffic Markings	L.S.	All Reg'd
670 (7)	Raised Pavement Markers	Ea.	-571
606(1)	Beam Type Guardrail Type I Post - EWD No. 7	L.F.	275.0

* These quantities are included in the Estimate of Quantities on sheet No. 2.

MONUMENT SUMMARY

STATIONING	LOCATION	POINT	REMARKS
"L" 95+05.14	E	P.C.	Adjust
"L" 99+41.98	"	P.T.	"
"L" 108+61.05	"	P.C.	"
"L" 113+45.93 Bk.	"	P.T.	"
"L" 113+42.19 Ahd.	"	P.O.T.	"
"L" 137+76.75	"	P.C.	"
"L" 144+05.08	"	P.T.	"
"L" 148+89.95	"	P.C.	"
"L" 153+80.79	"	P.T.	"
"L" 159+93.75	"	P.C.	"
"L" 165+26.26	"	P.T.	"
"L" 175+75.09	"	P.C.	"
"L" 180+00.59	"	P.T.	"
"L" 185+48.59	"	P.C.	"
"L" 202+29	"	-	"
"L" 202+68.03	"	P.T.	"
"L" 213+05.66	"	P.C.	"
"L" 217+23.79	"	P.T.	"
"L" 222+78.84	"	P.C.	"
"L" 227+05.71	"	P.T.	"
"L" 235+12.65	"	P.C.	"
"L" 246+30.52	"	P.C.	"
"L" 251+94.82	"	P.C.	"
"L" 261+96	7'6" Lt.	-	"
"L" 267+32.92	E	P.C.	"
"L" 299+84.63	"	P.C.	"
"L" 314+51.05 Bk.	"	P.T.	"
"L" 314+92.86 Ahd.	"	P.O.T.	"
"L" 319+86.79	"	P.C.	"
"L" 324+66.47	"	P.T.	"

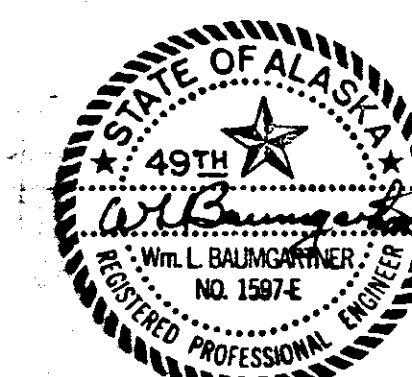
RAISED PAVEMENT MARKERS

BEGIN STATION	END STATION	NO. MARKERS	BEGIN STATION	END STATION	NO. MARKER
L'107+77	L'114+57	36-34	L'266+49	L'274+89	44-31
L'136+93	L'144+93	42 1	L'299+01	L'315+41	84-81
L'148+06	L'154+06	40-34	L'319+03	L'325+83	44-30
L'159+10	L'165+10	46 15	L'330+87	L'343+67	66-1
L'174+91	L'181+71	36-38	L'345+65	L'353+25	40-30
L'184+65	L'191+45	36-34			
L'194+16	L'203+56	47 29		Total	577
L'212+22	L'218+22	32-30			
L'221+94	L'227+94	32-24			
L'245+47	L'252+67	30-36			

Notes: A 87281

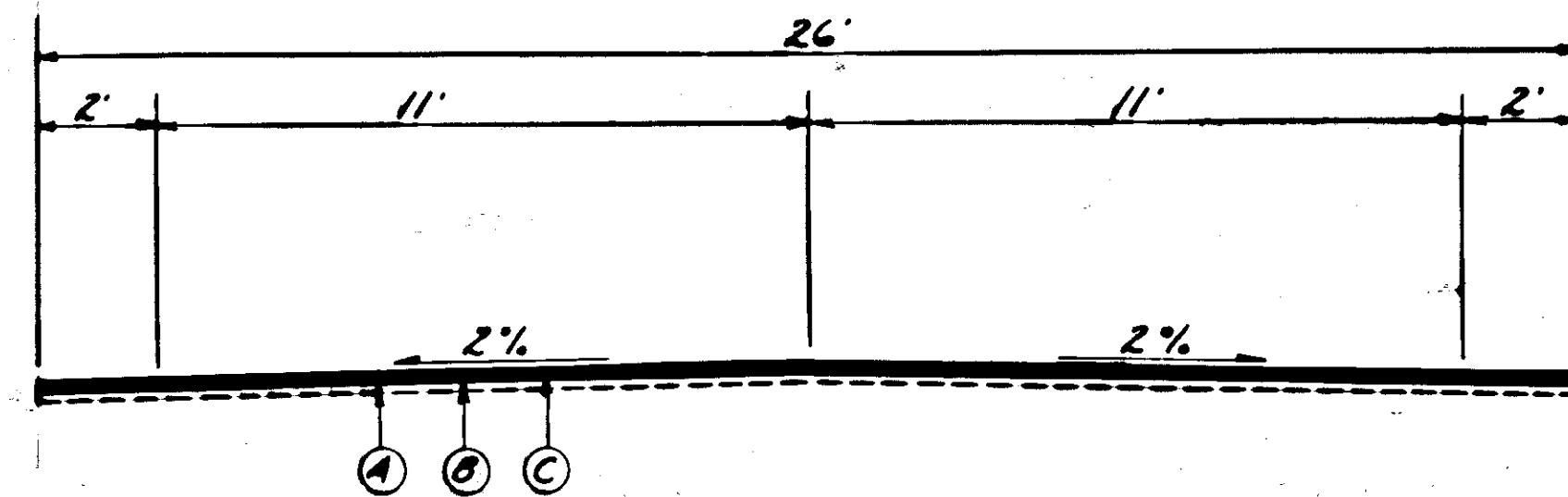
1. All stationing referred to on this project was derived from "As Built" Projects F-099-3(2) and F-099-3(6).
2. The pavement transition at the existing bridges shall be accomplished by removing approximately 75' of the existing adjacent roadway pavement full depth to a neat line and replacing with new pavement as directed by the engineer. The removal of pavement shall be considered incidental to Item 401(1), Hot Asphalt Pavement.
3. Any excavation required for the construction of approaches shall be considered incidental to item 301(1), Crushed Aggregate Base Course.
4. The pavement transition at the B.O.R shall be in the form of a butt joint. 25' of existing roadway pavement shall be removed and this removal of pavement shall be considered incidental to 401(1) Hot Asphalt Pavement.
5. A 1/2" layer of asphalt shall be placed on the pedestrian approaches to Granite Creek.

12/12/85



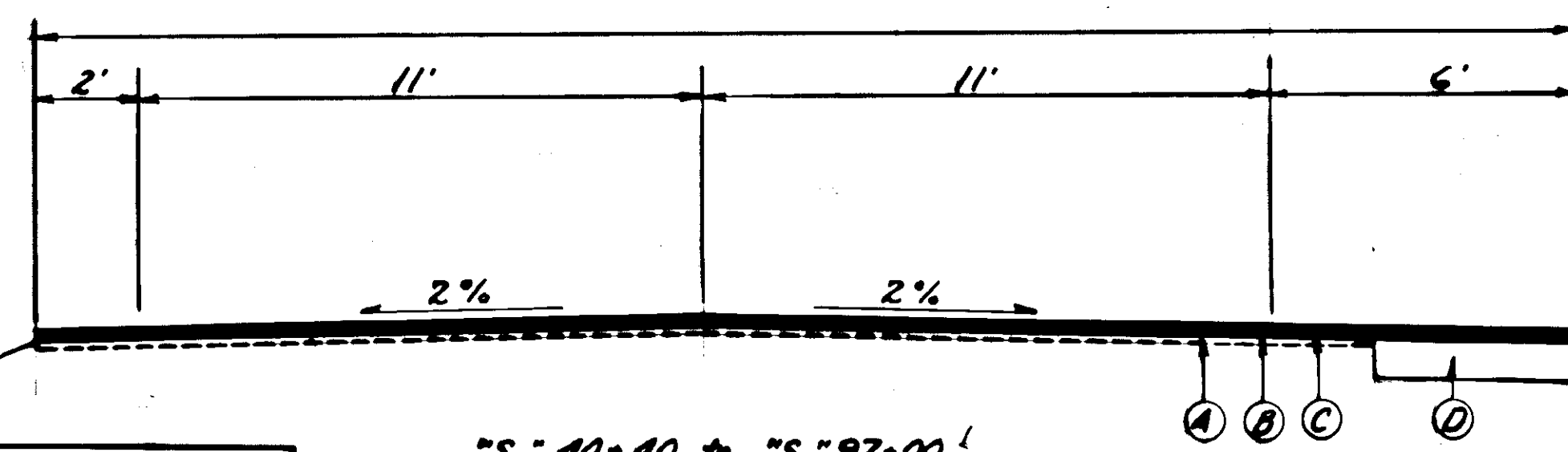
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	A87291	1985	4	8

TYPICAL SECTIONS



"S," 3+64 to "S," 40+40'

"S," 97+00 to "S," 175+00'



"S," 40+40 to "S," 97+00'

④	Existing Pavement
⑤	CSS-1 Emulsified Asphalt for Tack Coat
⑥	1 1/2" Hot Asphalt Pavement
⑦	6" D-1

Supplemental Agreement No. 1

RAISED PAVEMENT MARKERS

BEGIN STATION	END STATION	NO. MARKERS
"S," 179+40	"S," 186+69	44
"S," 190+42	"S," 212+20	110
"S," 213+15	"S," 220+52	38
"S," 222+01	"S," 225+89	22
"S," 230+03	"S," 236+84	36
"S," 238+89	"S," 246+02	38
"S," 247+80	"S," 253+80	32
"S," 256+35	"S," 259+52	18
Total		338

ESTIMATE OF QUANTITIES *

ITEM NO.	ITEM	UNIT	QUANTITY
109(2)	DBE & WBE Adjustments	C.S.	All Req'd
110(1)	Mobilization	L.S.	All Req'd
111(1)	Temporary Erosion & Pollution Control	C.S.	All Req'd
114(1)	Construction Surveying by the Contractor	L.S.	All Req'd
115(1)	Traffic Maintenance	L.S.	All Req'd
116(1)	Furnishing & Maintaining Field Office	L.S.	All Req'd
116(2)	Furnishing & Maintaining Field Laboratory	L.S.	All Req'd
203(3)(3A)	Unclassified Excavation EWO No. 1	E.Y. L.S.	1786
301(1)	Crushed Aggregate Base Course	Ton	3480
401(1)	Asphalt Concrete Type II	Ton	6589
401(2)	AC-5 Asphalt Cement	Ton	395
402(1)	CSS-1 Asphalt for Tack	Ton	19.4
604(4)	Adjust Existing Manhole	Ea.	20
614(4)	Adjust Existing Monument Cases	Ea.	21
615(1)	Standard Signs	SF	25
639(1)	Approaches	Ea.	138
670(1)	Painted Traffic Markings	L.S.	All Req'd
670(7)	Raised Pavement Markings	Ea.	464

* These quantities are included in the Estimate of Quantities on sheet no. 2.

MONUMENT SUMMARY

STATIONING	LOCATION	POINT	REMARKS
"S," 8+04.00	E	P.S.	Adjust
"S," 16+75.40	"	P.T.	"
"S," 33+90.20	"	P.C.	"
"S," 42+85.80	"	P.T.	"
"S," 56+44.10	"	P.S.	"
"S," 62+23.40	"	P.T.	"
"S," 62+78.50	"	P.S.	"
"S," 68+59.70	"	P.T.	"
"S," 70+54.00	"	P.S.	"
"S," 75+28.80	"	P.T.	"
"S," 75+44.80	"	P.S.	"
"S," 80+01.50	"	P.T.	"
"S," 83+20.40	"	P.S.	"
"S," 87+64.80	"	P.T.	"
"S," 89+57.70	"	P.S.	"
"S," 95+59.30	"	P.T.	"
"S," 162+09.98	"	P.C.	"
"S," 167+67.63	"	P.T.	"

RAISED PAVEMENT MARKERS

BEGIN STATION	END STATION	NO. MARKERS	BEGIN STATION	END STATION	NO. MARKERS
"S," 8+00	"S," 16+80	46	"S," 115+72	"S," 124+12	44
"S," 32+98	"S," 43+78	56	"S," 133+32	"S," 146+52	68
"S," 56+52	"S," 68+52	62	"S," 156+41	"S," 160+41	22
"S," 70+48	"S," 80+08	50	"S," 162+32	"S," 167+52	28
"S," 83+23	"S," 87+63	24			
"S," 89+59	"S," 95+59	32			
"S," 101+52	"S," 107+52	32			
			Total		476

BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
301(1)	196 Tons per Cu. Yard
401(1)	114.4 lbs. per sq. Yd. Inch Depth
401(2)	6% of Item 401(1)
402(1)	0.10 gals. per Sq. Yd. / 253 gals. per Ton

SIGN SCHEDULE

STATION	OFF-SET	CODE	LEGEND	SIGN PANEL	POSTS	FACING	REMARKS
	LT. RT.	NO.		SIZE	AREA	NO. LEN. EMB. POSTS	
"S," 43+00	X	R8-1	No Parking on Pavement	24x30	5.0'		Mount on existing pole
"S," 55+00	X	"	"	"	"		"
"S," 62+25	X	"	"	"	"		"
"S," 76+00	X	"	"	"	"		"
"S," 87+25	X	"	"	"	"	1 10' 3'	"

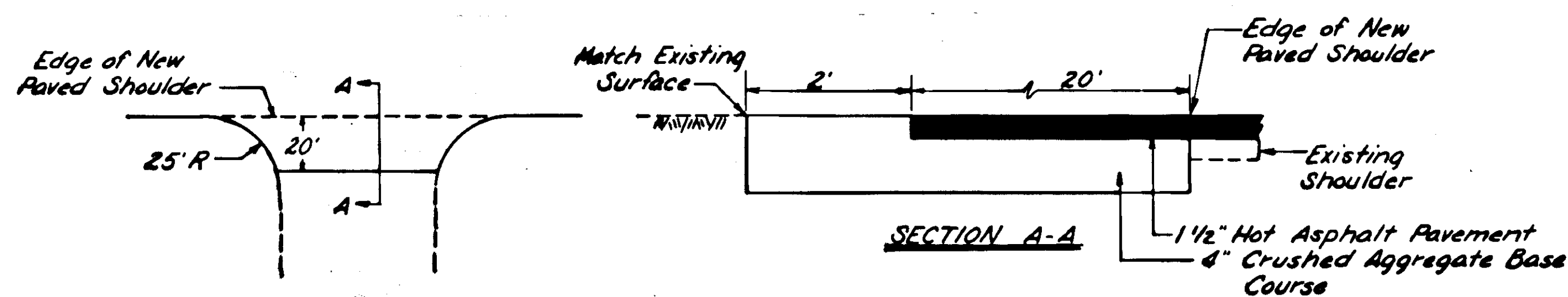
SIGNING SCHEDULE NOTES:

- Sign locations and post lengths are approximate only and are subject to minor revisions.
- Sign post shall be telescoping perforated galvanized square steel post; the 2" size shall be used above ground and the 2 1/4" size shall be below ground for the sleeve.
- The post shall be installed with sleeve type embedment and concrete foundation in accordance with Standard Drawing S-30.00.
- Post lengths are from the cut-off in the sleeve to the top of the post. See Standard Drawings S-05.00 and S-30.00.
- All signs shall be .063" thick.

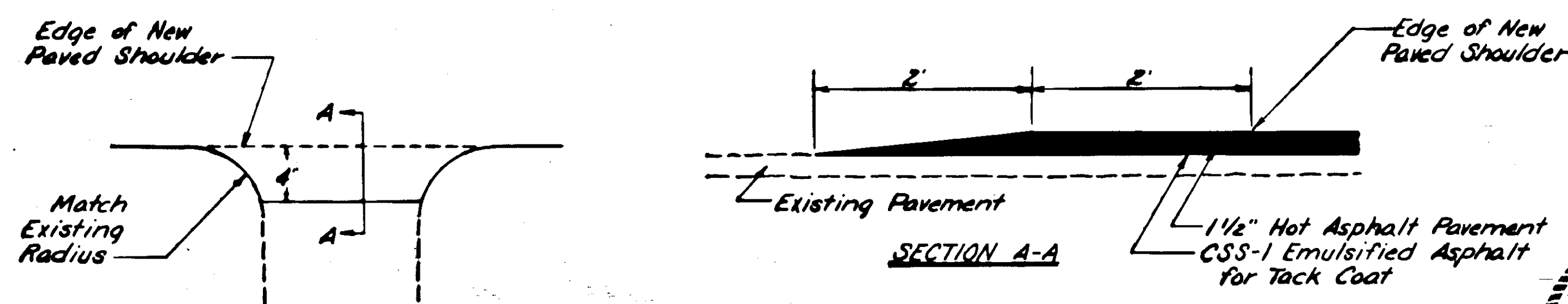
Notes A87291

- The pavement transition at the existing bridge shall be accomplished by removing approximately 75' of the existing adjacent roadway pavement full depth to a neat line and replacing with new pavement as directed by the engineer. The removal of pavement shall be considered incidental to item 401(1), Hot Asphalt Pavement.
- The pavement transition at the BQP shall be in the form of a butt joint. 25' of existing roadway pavement shall be removed and this removal of pavement shall be considered incidental to 401(1) Hot Asphalt Pavement.

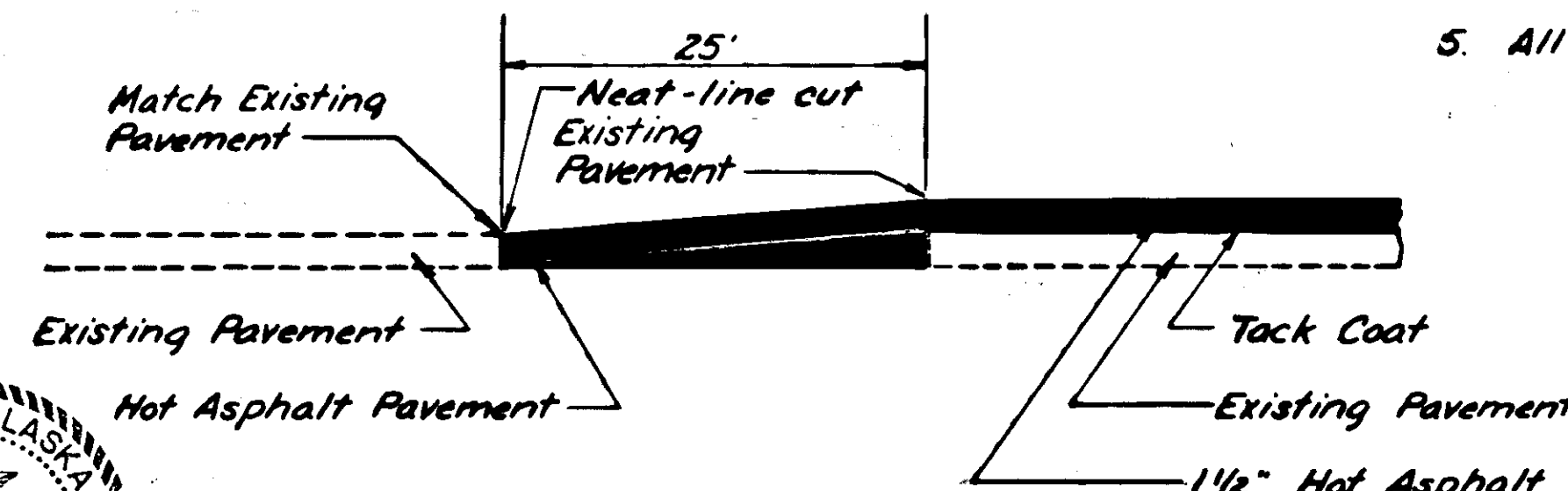
12/2/85



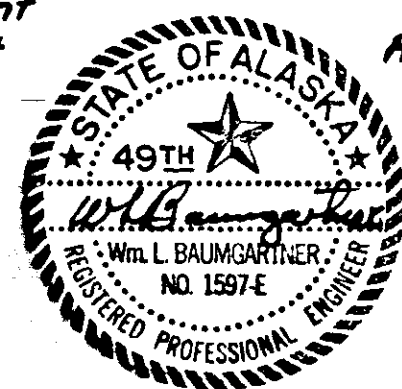
TYPICAL UNPAVED INTERSECTION & APPROACH SURFACING DETAIL



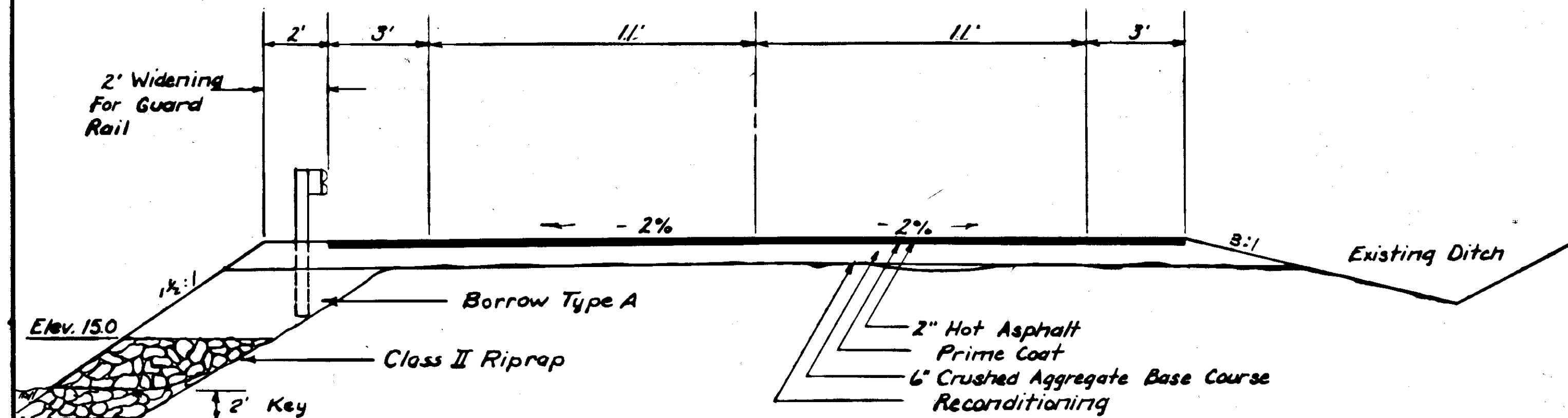
TYPICAL PAVED INTERSECTION & APPROACH SURFACING DETAIL



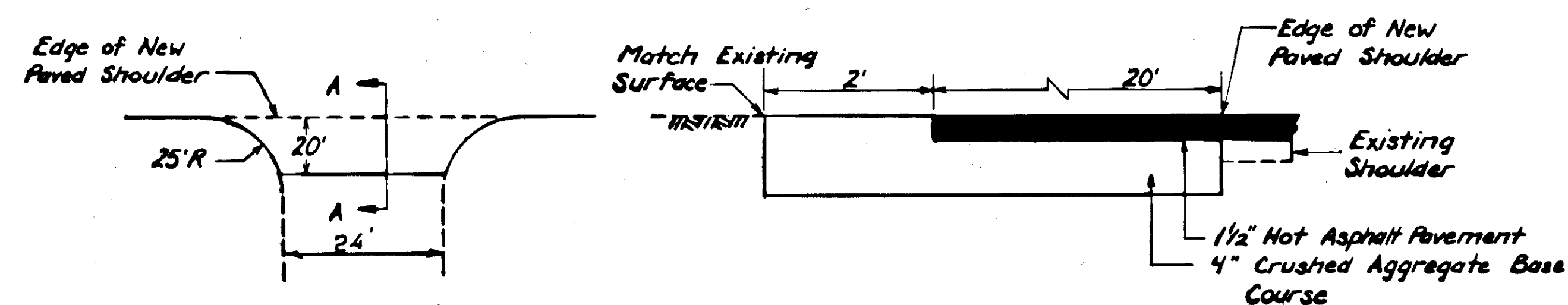
PAVEMENT TRANSITION DETAIL



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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TYPICAL SECTION OF IMPROVEMENT

TYPICAL UNPAVED INTERSECTION & APPROACH /
SURFACING DETAIL

MONUMENT SUMMARY			
STATIONING	LOCATION	POINT	REMARKS
"0" 358+01.43	E	P.S.	Install Monument & Case
" 366+51.43	"	P.T.	"
" 366+64.12	"	P.S.	"
" 374+86.89	"	P.T.	"
" 379+12.89	"	P.C.	"
" 382+45.56	"	P.T.	"
" 382+99.74	"	P.C.	"
" 385+01.74	"	P.T.	"
" 396+00.00	"	P.O.T.	"

RAISED PAVEMENT MARKERS		
STATION TO STATION	NO. MARKERS	
358+06 375+05	87-74	
378+27 386+27	42-26	
385+05		
Total	100	

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
110 (2)	Mobilization & Demobilization	LS	All Reg'd
111 (1)	Temporary Erosion & Pollution Control	CS	"
114 (1)	Construction Surveying by the Contractor	LS	"
115 (1)	Traffic Maintenance	LS	"
116 (1)	Furnishing and Maintaining Field Office	LS	"
116 (2)	Furnishing and Maintaining Field Laboratory	LS	"
203 (58) (50)	Borrow Type A EWO No. 4	Ton-LS	937
301 (1)	Crushed Aggregate Base Course	Ton	4735
303 (1)	Reconditioning	Sta.	37.1
401 (1)	Asphalt Concrete Type II	Ton	1322
401 (2)	AC-5 Asphalt Cement	Ton	79.3
403 (2)	MC-30 Liquid Asphalt for Prime Coat	Ton	4.8
509 (1)	Deck Protection	LS	All Reg'd
603 (13-24)	24 Inch Corrugated Aluminum Pipe	LF	108
603 (13-60)	60 Inch Corrugated Aluminum Pipe	LF	64
606 (1)	Beam Type Guardrail Type 1 Post	LF	1000
606 (4)	Removal and Reconstruction of Guardrail	LF	1325
606 (6)	End Anchorages	EA	2
611 (2)	Riprap, Class II	CY	366
614 (1)	Survey Monuments	EA	9
614 (2)	Monument Cases	EA	9
639 (1)	Approaches	EA	3
670 (1)	Painted Traffic Markings	LS	All Reg'd
670 (7)	Raised Pavement Markers	Ea.	129
109 (2)	DBE & WBE Adjustments	CS	All Reg'd

These quantities are included in the Estimate of Quantities on sheet 2.

GUARD RAIL SUMMARY

STATION TO STATION	OFFSET	LENGTH	REMARKS
	LI. RI.		
"0" 381+92.2 "0" 385+54.7	X	362.5'	Removal & Reconstruction
"0" 382+29.7 "0" 385+54.7	X	325'	"
"0" 386+44.7 "0" 389+32.2	X	287.5'	"
"0" 386+44.7 "0" 389+94.7	X	350'	"
"0" 364+00 "0" 374+00	X	1000'	Install

BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
203 (58)	1.90 Tons per Cu Yard
301 (1)	1.96 Tons per Cu Yard
401 (1)	1144 lbs. per Sq. Yd. Inch Depth
401 (2)	6% of Item 401 (1)
402 (1)	0.10 gals. per Sq. Yd. / 253 gals. per Ton
509 (1)	120 Sq. Yd.

CULVERT SUMMARY

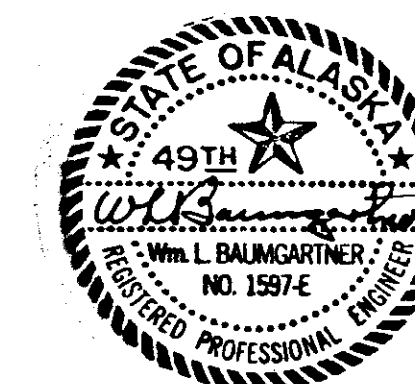
STATION	LENGTH	SIZE
"0" 364+65	56'-61'	24"
"0" 368+58	52'-62'	24"
"0" 372+05	64'-84'	60"*
"0" 377+00	12'	

* w/ Mitered Ends and slope protection

NOTES: FH-11-1(4)

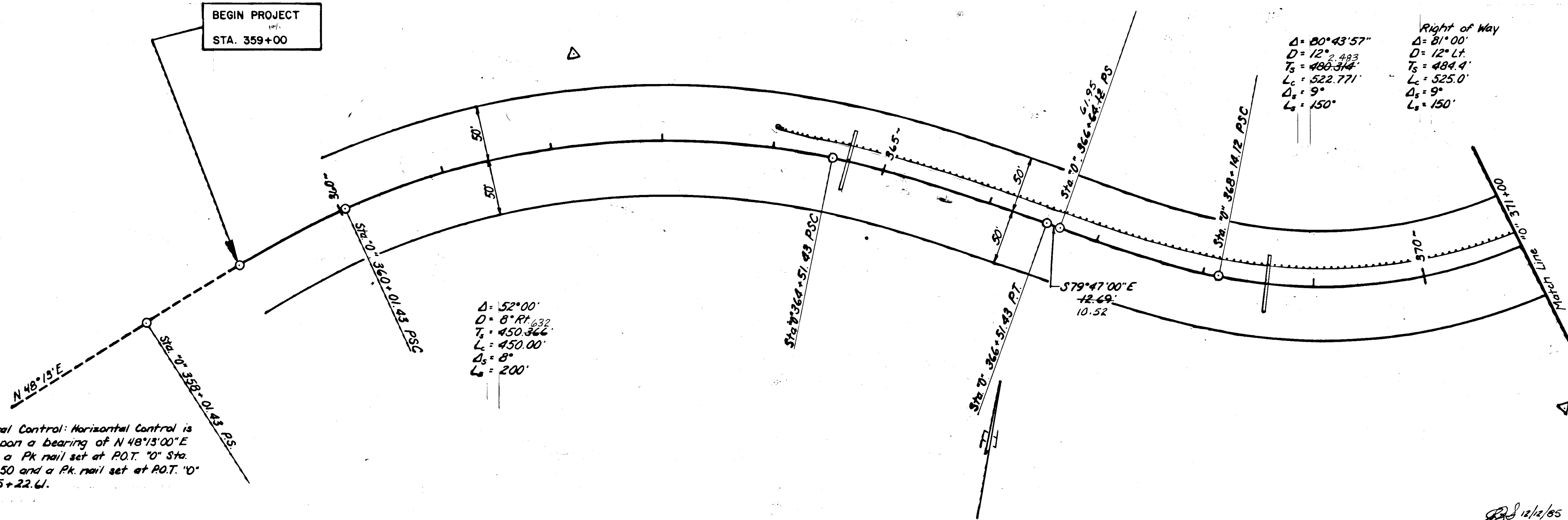
- Grades and alignment as shown on the plans are subject to minor revision.
- Culvert lengths and location are approximate and subject to minor revision. Removal of existing pipe shall be considered incidental to other items.
- The 60" culvert located at approximate Sta. "0" 372+05 shall be installed 6" below the natural streambed. If the natural streambed is unyielding, 6" of washed rock shall be placed inside the pipe and the rock placement shall extend 25' upstream and downstream to provide a taper. This work shall be considered incidental to other items and no separate payment shall be made.
- All material placed below Elev. 15.0 shall consist of Class II rip-rap.

12/12/85



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ALASKA	FH-11-1(4)		6	8

PLAN	SURVEYED	DATE
NO.	BY	
	NOTED	
	RT. OF WAY CHECKED	

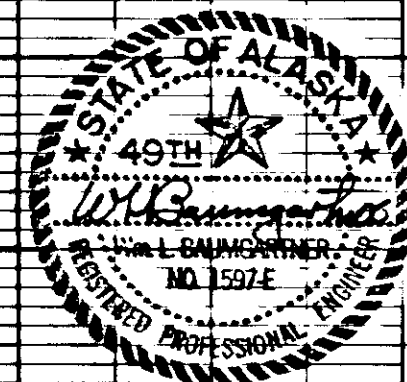
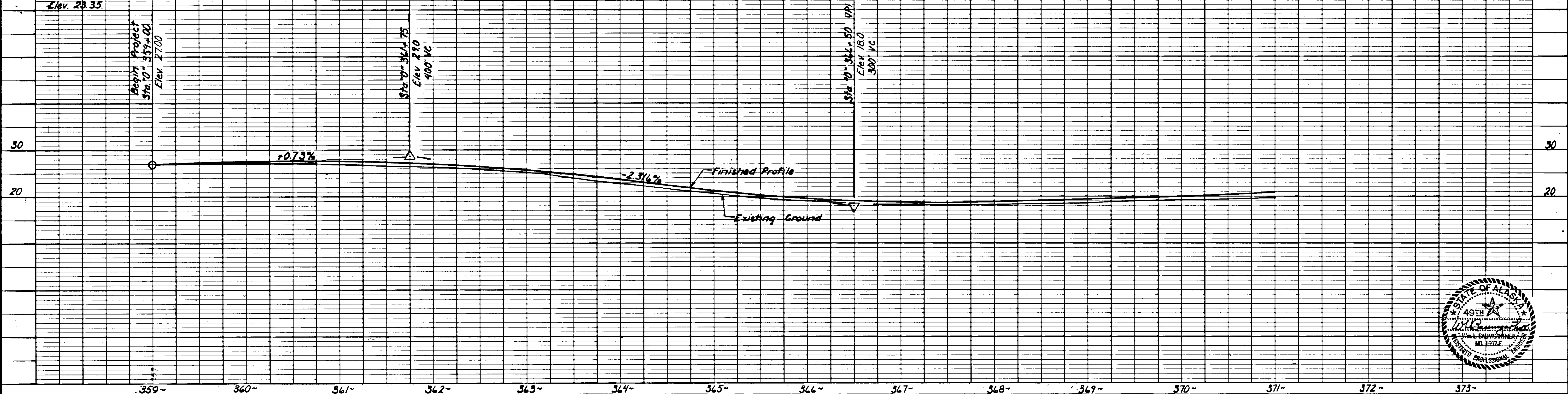


Horizontal Control: Horizontal Control is based upon a bearing of N 48°13'00\"E between a Pk nail set at P.O.T. 'O' Sta. 356+56.50 and a Pk nail set at P.O.T. 'O' Sta. 365+22.61.

12/12/65

PROFILE	SURVEYED	DATE
NO.	BY	
	NOTED	
	STRUCTURE NOTATIONS CH'D	

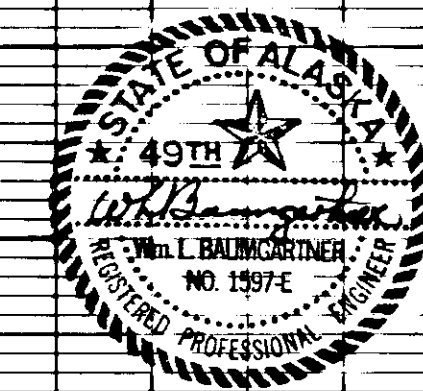
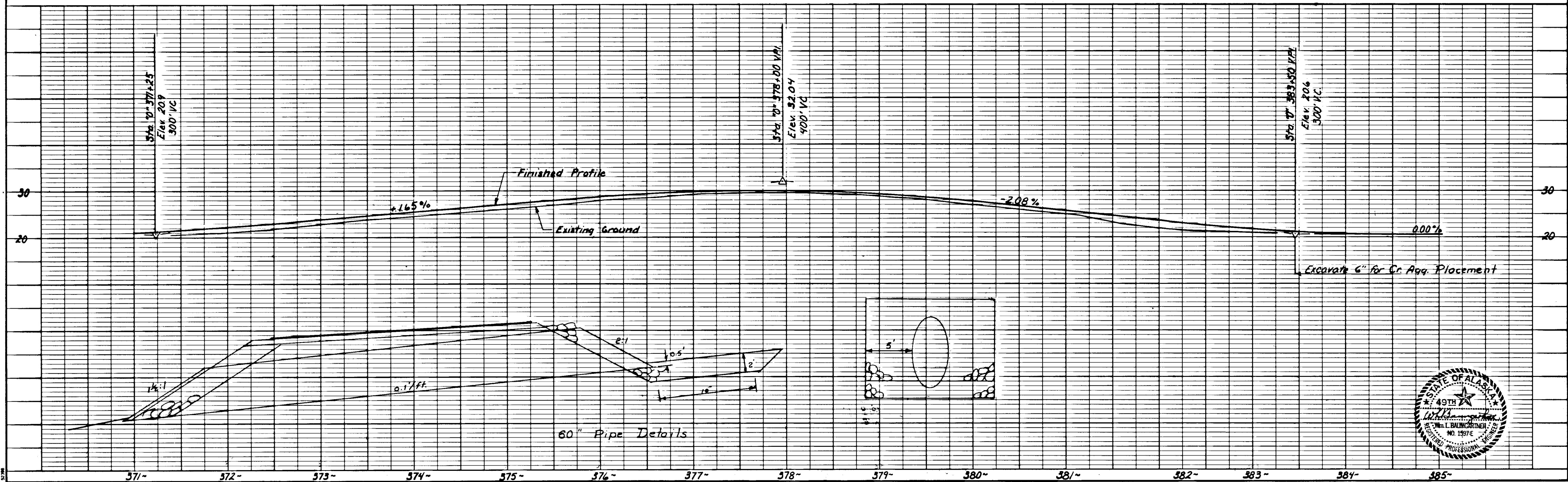
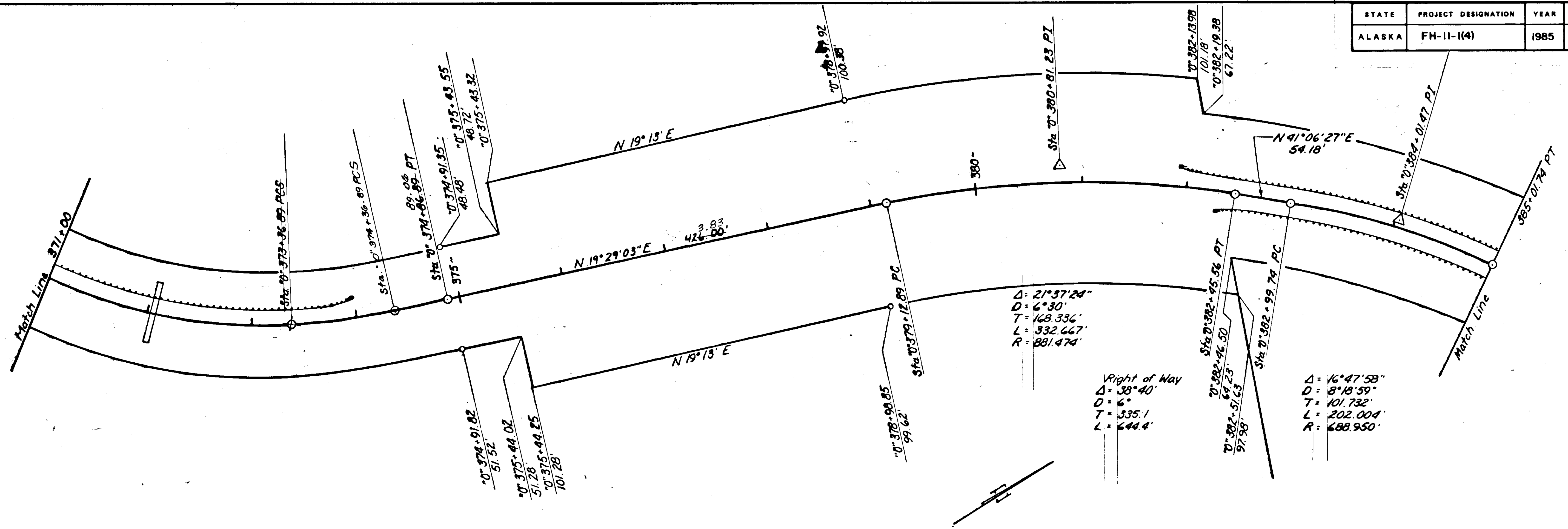
Vertical Control: Vertical Control is based upon T.B.M. "GAVIN" T.B.M. "Gavin" is a 20 penny nail in the base of a 36\" Hemlock that branches into 3 separate trees 8' off the ground and 55' right of Sta. 390+62.7 Elev. 28.35.



PLAN	SURVEYED	DATE
	PLANNED	BY
	NOTED	BY
	NOTED	BY

PROFILE	SURVEYED	DATE
	PLANNED	BY
	NOTED	BY
	NOTED	BY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH-II-(4)	1985	7	8



PLAN	SURVEYED	BY	DATE
	NOTE BOOK	ALIGNED	CHECKED
	NO.	RT. OF WAY	CHECKED

PROFILE	SURVEYED	BY	DATE
	NOTE BOOK	GRADES	CHECKED
	NO.	B. M.'S	NOTED
		STRUCTURE	NOTATIONS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH-11-1(4)	1985	8	8

