

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES**

**PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
JUNEAU AIRPORT ACCESS
RS-0962(I)
PAVING & INTERSECTION CONSTRUCTION**

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962(I)	1	13

INDEX OF SHEETS	
1	TITLE SHEET
2	SUMMARY TABLES
3	TYPICAL SECTIONS
4-8	PLAN & PROFILE SHEETS
9,10	INTERSECTION DETAIL SHEETS
11-13	STRIPING, SIGNING & ILLUMINATION

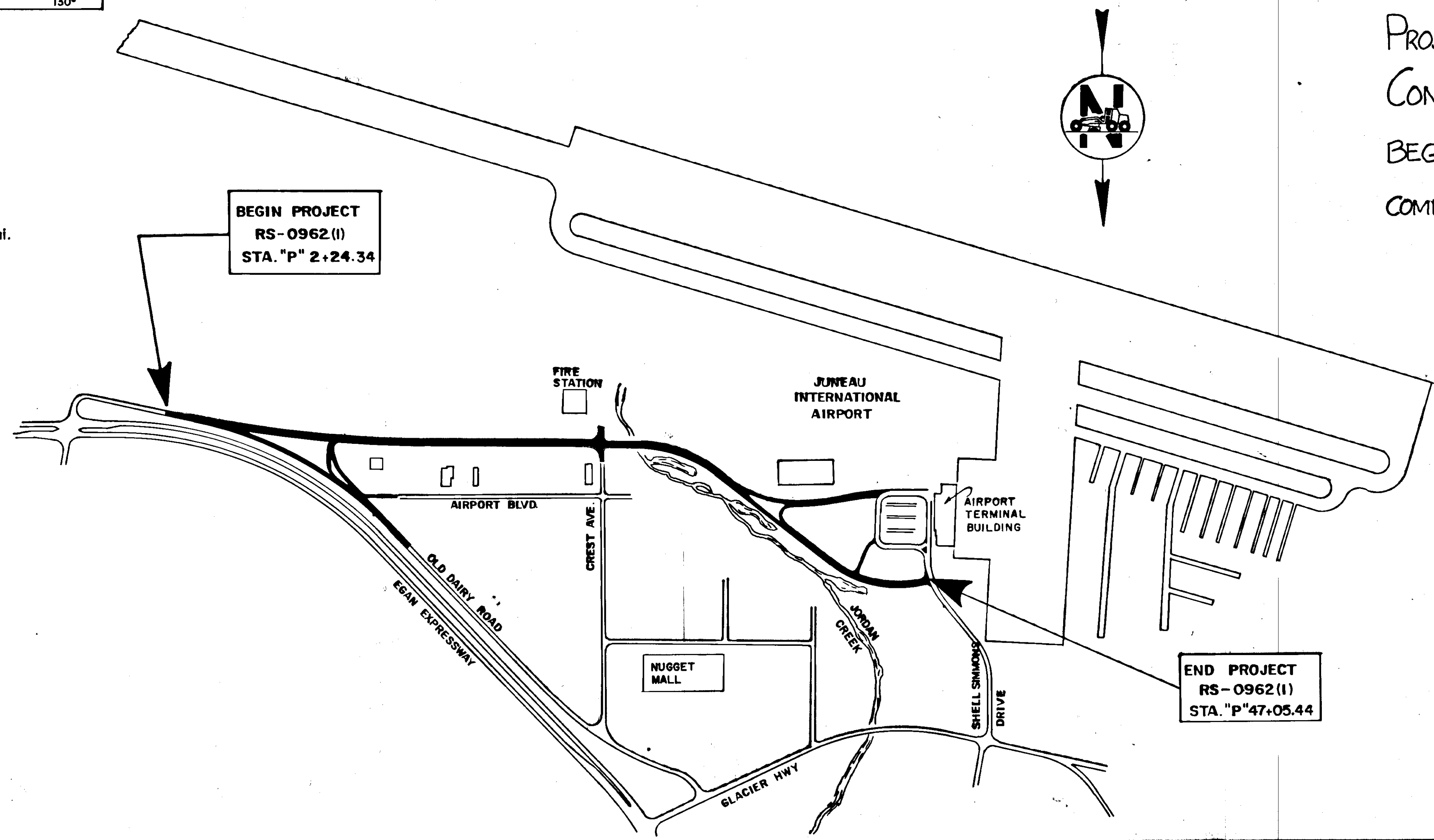
The following standard drawings apply to this project: A-1, C-00.04, C-10.04, C-11.04, D-01.00, D-04.00, D-05.00, D-06.11, D-24.13, D-26.03, G-04.15, G-04.34, G-13.16, G-14.08, I-40.21, I-80.00, L-03.12, L-10.13, L-14.01, L-20.03, L-23.03, L-30.01, M-16.03, S-00.11, S-05.00, S-20.10, S-30.12, T-20.03, T-21.03, T-22.00.

PROJECT SUMMARY

WIDTH OF PAVEMENT	40' & 36'
LENGTH OF PAVING	249.56' = 1.1779 mi.
LENGTH OF PROJECT	5183.56' = 1.1835 mi.

DESIGN DESIGNATION

ADT (1981)	2599
ADT (2000)	5171
DHV (16%)	827
D	60-40
T	3.5%
TRAFFIC INDEX	7.5



BEGIN PROJECT
RS-0962(I)
STA. "P" 2+24.34

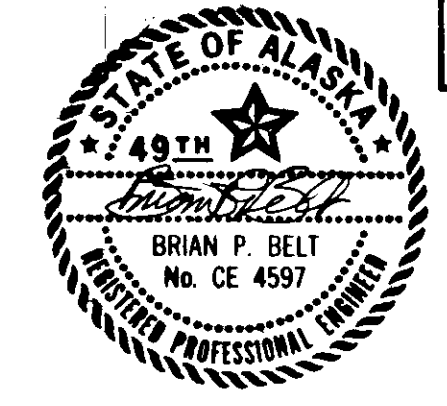
END PROJECT
RS-0962(I)
STA. "P" 47+05.44

"AS BUILT" PLANS
PROJECT ENGR. - BRIAN BELT
CONTRACTOR - RED SAMM CONST.
BEGIN PROJECT: JULY 16, 1981
COMPLETE PROJECT: JUNE 6, 1982



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
Wilcox K. Wilcox DATE 4/7/81
SOUTHEASTERN REGION DESIGN CONST. ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
Charles Matlock DATE 5-5-81
DIRECTOR - HIGHWAY DESIGN & CONSTRUCTION



SUMMARY TABLES

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
109(1)	Petroleum Escalation	contingent sum	all required
110(1)	Mobilization	lump sum	all required
111(1)	Temporary Erosion and Pollution Control	contingent sum	all required
114(1)	Construction Surveying by the Contractor	lump sum	all required
115(1)	Traffic Maintenance	lump sum	all required
115(2)	Construction Signs	lump sum	all required
116(1)	Furnishing and Maintaining Field Office	lump sum	all required
116(2)	Furnishing and Maintaining Field Laboratory	lump sum	all required
202(2A)	Removal of Pavement	lump sum	all required
202(4)	Removal of Culvert Pipe deleted by C.O. #1	linear foot	50
203(3A)	Unclassified Excavation	lump sum	all required
301(1)	Crushed Aggregate Base Course	Ton	18,569 10,448
304(4)(A)	Subbase, Grading & A	Ton	15,819 4,417
401(1)	Asphalt Concrete, Type I	Ton	4,560 5,251
401(2)	Asphalt Cement (AC-5)	Ton	315.57 273.6
403(2)	MC-30 Liquid Asphalt for Prime Coat	Ton	20.10 26.0
603(22-18)	18 Inch Pipe	linear foot	48
603(22-24)	24 Inch Pipe	linear foot	82 128
603(28-18)	End Section for 18 Inch Pipe	each	1
603(28-24)	End Section for 24 Inch Pipe	each	3
604(4)	Adjust Existing Manholes	each	2
604(5)	Inlets	each	3
604(5A)	Reconstruct Existing Inlet deleted by E.W.O. #3	each	1
606(1)	Beam Type Guardrail, Type I Post	linear foot	250.600
606(6)	End Anchorages	each	4
614(1)	Survey Monuments	each	17
614(2)	Monument Cases	each	17
615(1)	Standard Sign	square foot	699.23 722.98
618(1A)	Seeding	lump sum	all required
660(3)(3A)	Highway Lighting System Complete (Revised)	lump sum	all required
670(6)	Thermoplastic Pavement Markers	lump sum	all required
670(7)	Raised Pavement Markers	each	182 183

MONUMENTATION

STATION	DENOTES	REMARKS
"P"3+74.34="D"10+00.00	PC / PC	Install Monument & Case
"D"16+43.46, 37.02 Lt	R/W	Adjust R & M monument *
"D"22+55.53	PT	Install Monument & Case
"P"11+50.00="B"10+00.00	"P"/"B" Intersection	"
"B"10+57.12	PC	"
"B"12+26.59	PT	"
"P"16+92.948="P"16+89.83A	PT	"
"P"26+43.85="F"10+00.00	"P"/"F" Intersection	"
"P"28+52.09	PC	"
"P"33+11.87	PT	"
"P"34+01.13="Y"109+27.06	PT/"P"/"Y" Intersection	"
"P"41+39.65	PC	"
"P"46+95.44	PT	"
"Y"100+00.00	PC	"
"Y"101+50.00	PT	"
"Y"103+35.97	PC	"
"Y"104+85.97	PT	"
"Y"105+41.02	PC	"

* payment incidental to Item 614(1) Survey Monuments
 Note: Monument legend, as shown on Std. Drg. M-16.03, shall be changed from "Department of Highways" to "Juneau International Airport".

GENERAL NOTES:

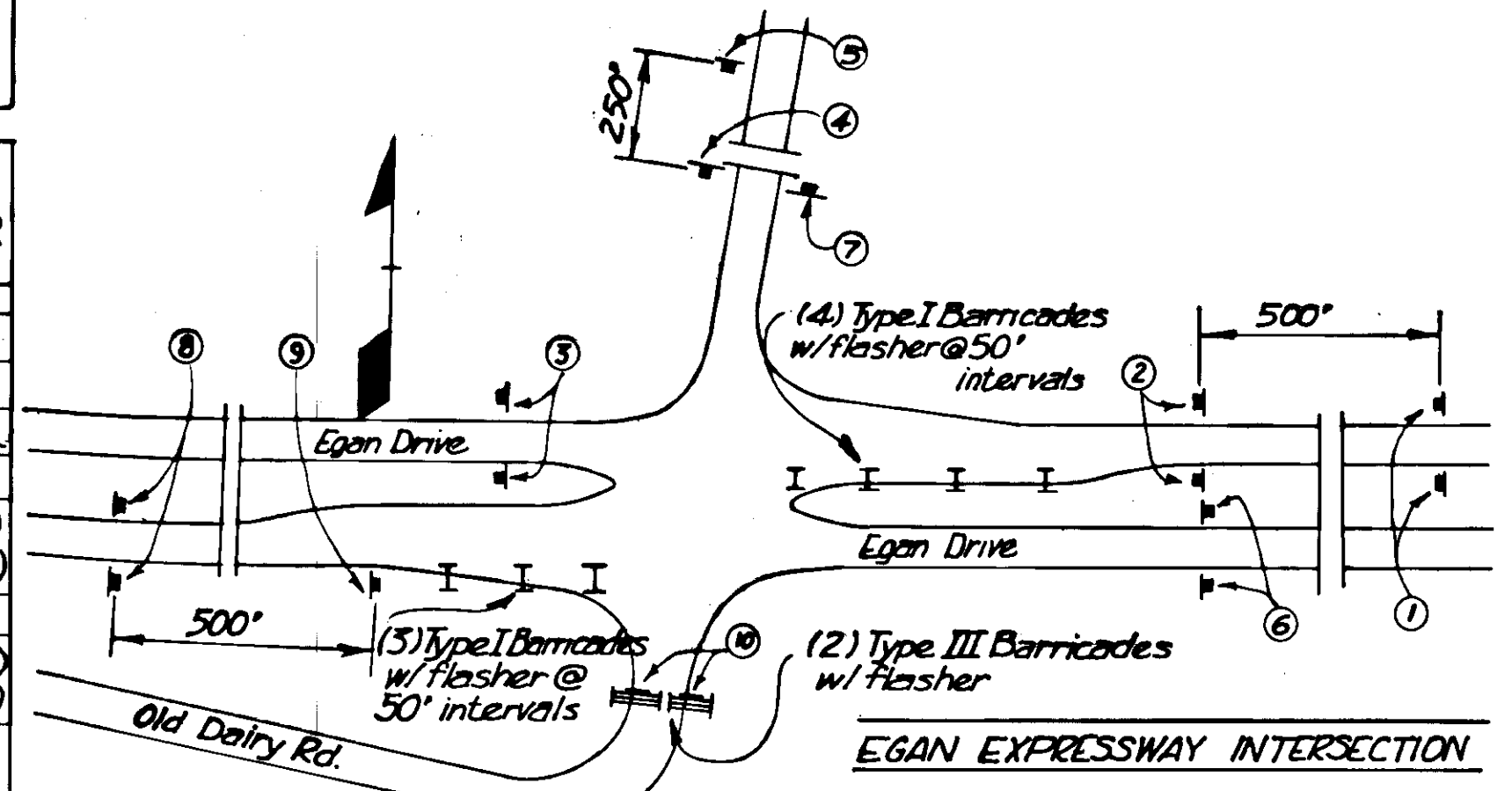
- The Contractor shall erect and maintain Type I Barricades at the termini and any other point of possible access to keep the public from entering the project, except as otherwise specified; these barricades are incidental to Item 115(1) Traffic Maintenance.
- Superelevation for this project shall be Case I as shown on Std. Drg. I-80.00.
- Logs, timbers, and other miscellaneous debris within the project limits shall be removed and disposed of by the Contractor; payment for this work will be considered incidental to other items of work.
- Petroleum Escalation attributable to Item 203(3A) Unclassified Excavation, a lump sum item, shall be paid proportionately at the same rate as payment for that work is made to the Contractor.
- Approach construction shall be paid for under the applicable Contract bid items.

UTILITY/DRAINAGE WORK SUMMARY

SYMBOL	LOCATION	WORK	REMARK	PAY UNDER
1	"A"10+86, 2.00' Rt.	Adjust Existing Manhole	Adjust Cover Elevation to 23.20	604(4)
2	"B"14+45, 19.50' Lt.	Adjust Existing Manhole	Adjust Cover Elevation to 24.61	604(4)
3	"B"12+65, Left	Remove & Dispose Culvert	Existing 24" x 50' driveway CMP	202(4)
4	deleted			
5	"B"13+82, Left	Extend Existing 24" CMP by 15'	clean culvert of siltation *	603(22G)
6	"B"11+80, 15.00' Rt.	Install End Section	see detail on Sheet 9	603(28G)
7	"B"11+80, 15.00' Rt. to "B"11+80, 33.00' Lt.	Install 18" x 48" CMP w/ end section	flows from inlet 6 inlet elev = 21.58, outlet elev = 21.28	603(22E) 603(28E)
8	"P"36+90, 33.50' Lt.	Install Field Inlet	see detail on Sheet 10 and Special Provisions	604(5)
9	"P"37+51.50, 40.50' Lt.	Extend Existing 24" CMP by 24', install end section	flows to inlet 6 inlet elev = 21.92, connect elev = 21.28	603(22G) 603(28G)
10	"P"12+10	Install 24" x 28" CMP with end sections	mainline cross-culvert see Sheet 4	603(22G) 603(28G)
	"P"36+90 Lt to 37+51.5	Install 12" x 60" CMP w/ end section	E.W.O. #3	603(22-12) 603(28-12)
	"Y"100+50 to 100+80 Lt.	Install 12" x 72" CMP	Supp. Agreement # 1	603(22-12) 604(B)
	"P"37+00, Left	Removal of Drainage Structure	E.W.O. #3	

* incidental to other items of work

202(2)	Remove and Replace Guard Posts	Lump Sum	All Required
203(3B)	Terminal Unclassified Excavation	Lump Sum	All Required
501(1)	Class A Concrete	Lump Sum	All Required
606(5)	Removal and Reconstruction of Guardrail	Lump Sum	All Required
607(4)	Reconstructed Fence	Linear Foot	50
608(1)	Concrete Sidewalk, 4" depth	Square Yard	65.9
609(2)	Curb and Gutter, Type I	Linear Foot	286
620(1A)	Topsoil	Lump Sum	All Required
660(1A)	Loop Detector Installation	Lump Sum	All Required
660(3C)	Luminaire Base Reinforcement	Lump Sum	All Required
660(3D)	Repair Anchor Bolts and Illumination Conduits and Transports	Lump Sum	All Required



BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
301(1)	1.96 Tons / cubic yard
304(1)	1.96 Tons / cubic yard
401(1)	114 lb / square yard / inch depth
401(2)	6% of 401(1)
403(2)	0.25 gallons / square yard
403(2)	256 gallons / ton

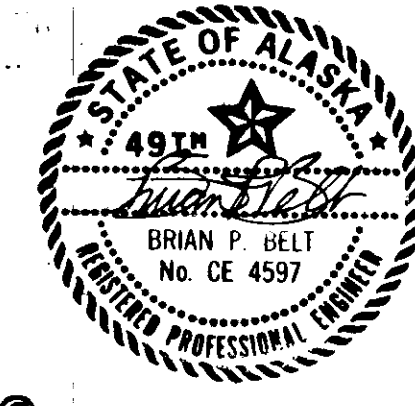
SUMMARY OF LUMP SUM ITEMS

ITEM NO.	LOCATION	ESTIMATED QUANTITY
115(2)	all	44.3 sq. ft.
202(2A)	"D"-Line (Sheet 4)	4311 sq. yd.
	"F"-Line (Sheet 5)	600 sq. yd.
	"P"-Line (Sheet 6)	100 sq. yd.
	"Y"-Line (Sheet 7)	78 sq. yd.
	Total	5089 sq. yd.
203(3A)	"B"/"D"-Line (Sheet 4)	1379 cy
	"F"-Line (Sheet 5)	264 cy
	Terminal Intersection	25 cy
	Total	1668 cy
618(1A)	all	69.5 msf
660(3)	see sheet 11	-
670(7)	see sheet 11	-

CONSTRUCTION SIGNING SCHEDULE

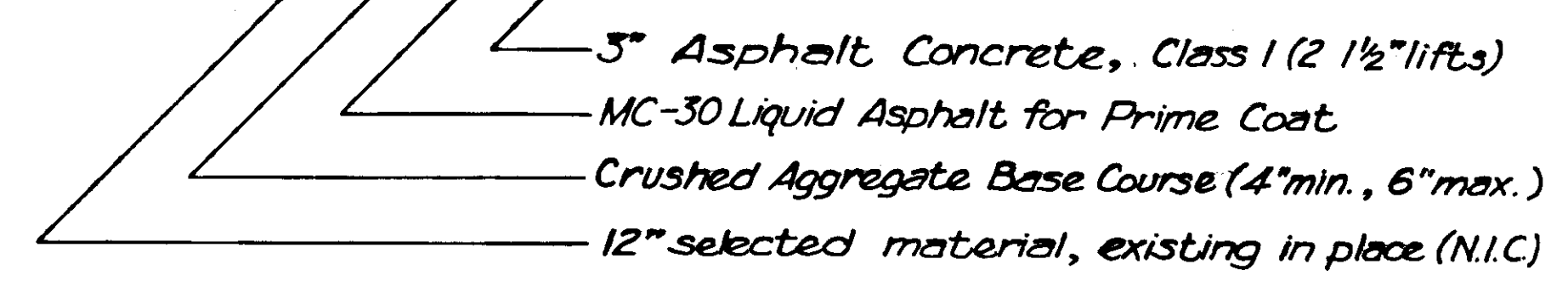
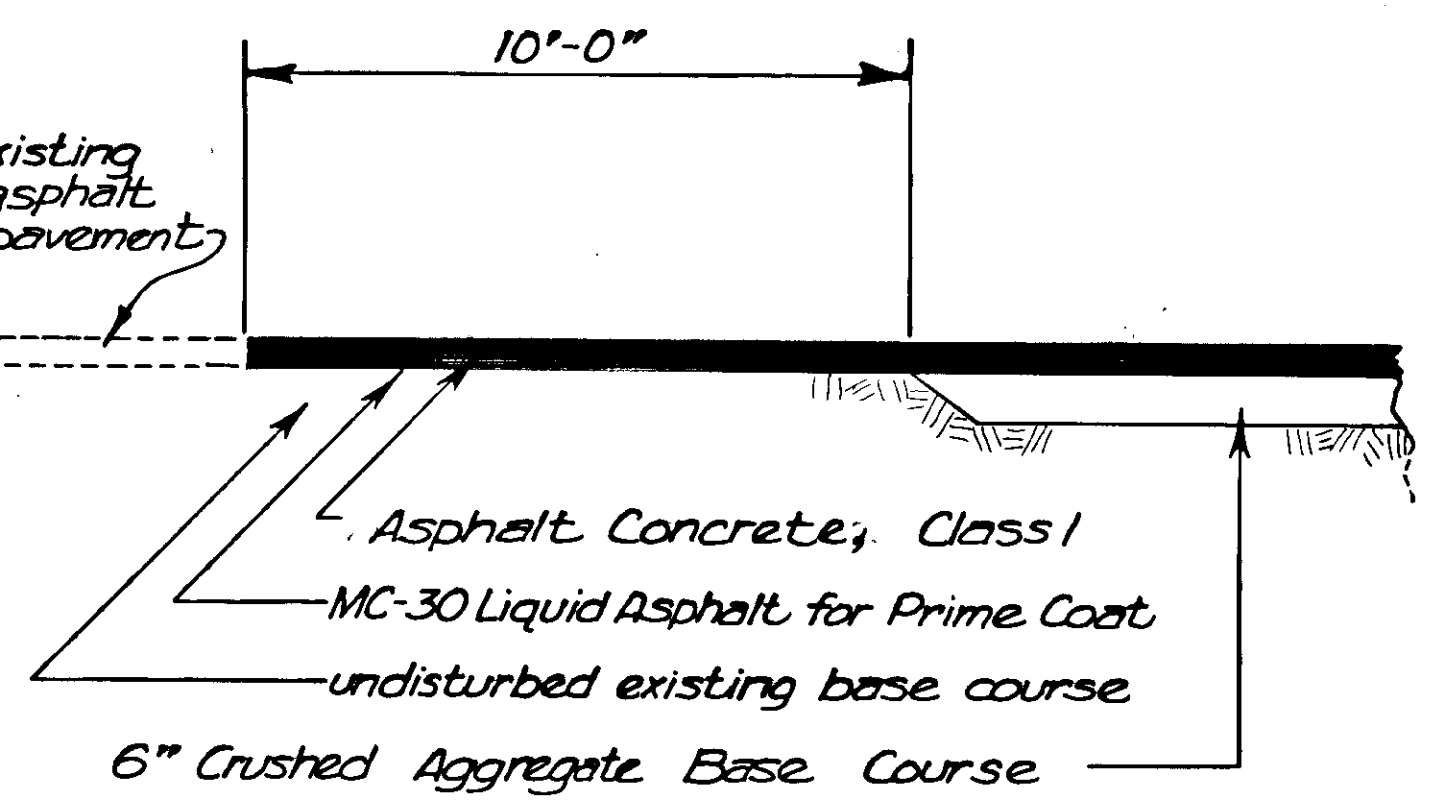
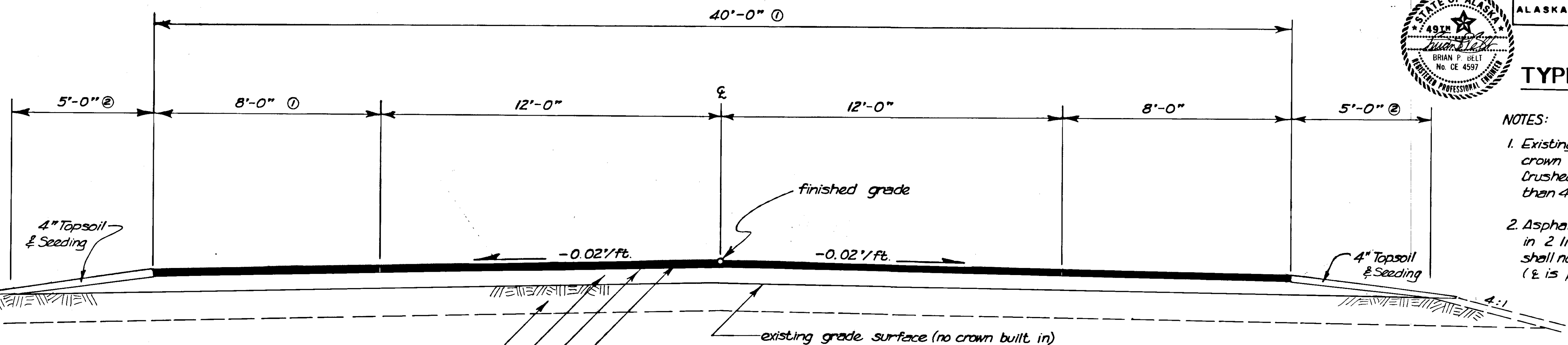
SYMBOL	LOCATION	FACING	LEGEND	CODE	AREA (SF)
1	Egan Drive (2 signs)	E	ROAD CONSTRUCTION AHEAD	CW20-1F(E)	2x25=50
2	"	E	NO LEFT TURN	R3-2(E)	2x12=24
3	"	E	END CONSTRUCTION	G20-2	2x10=20
4	Glacier Highway	N	ROAD CLOSED AHEAD	CW20-3F(T)	16
5	"	N	ROAD CONSTRUCTION AHEAD	CW20-1F(T)	16
6	Egan Drive (2 signs)	W	END CONSTRUCTION	G20-2	2x10=20
7	Glacier Highway	S	"	"	10
8	Egan Drive (2 signs)	W	ROAD CONSTRUCTION AHEAD	CW20-1F(E)	2x25=50
9	"	W	NO RIGHT TURN	R3-1(E)	12
10	Old Dairy Rd. (2 signs)	N	ROAD CLOSED	R11-2	2x10=20
	Shell Simmons Dr., Old Dairy Rd.	NW NW	ROAD CONSTRUCTION AHEAD	CW20-1F(T)	4x16=64
	Airport Blvd., Crest Ave (4 signs)	W N	"	"	4x16=64
	Airport Blvd., Old Dairy Rd. (2 signs)	W NW	DETOUR AHEAD	CW20-2F(T)	2x16=32
	"	"	DETOUR (w/arrow)	M4-10(LR)	2x6=12
	Shell Simmons Dr., Old Dairy Rd.	NW NW	BE PREPARED TO STOP	CW20-8(E)	2x16=32
	Airport Blvd., Old Dairy Rd.	W NW	ROAD CLOSED TO THRU TRAFFIC	R11-4	2x12=24
	Shell Simmons Dr., Old Dairy Rd.	SE SE	"	"	4x10=40
	Airport Blvd., Crest Ave (4 signs)	E S	END CONSTRUCTION	G20-2	4x10=40
			Total Area		= 443 sq. ft.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962 (1)	1981	3	13



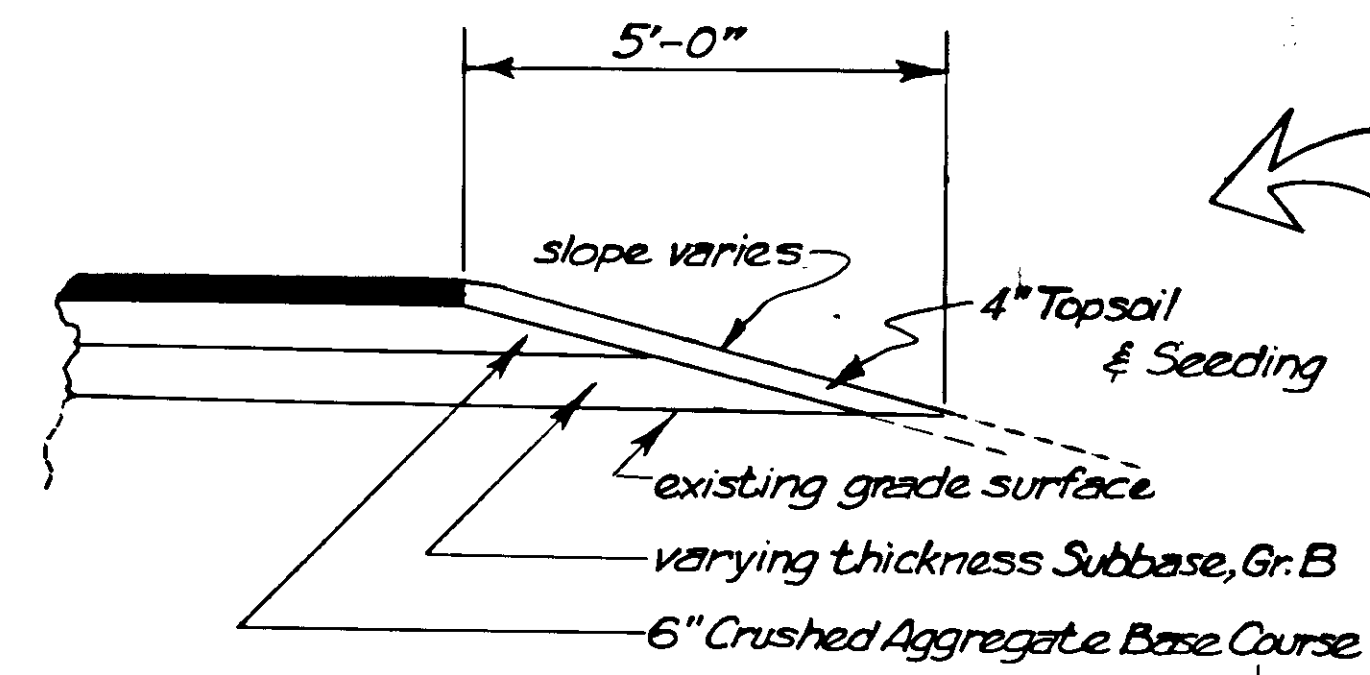
TYPICAL SECTIONS

- NOTES:**
- Existing "P"-Line crown varies from "P"-Line crown to be constructed. Depth of Crushed Aggregate shall be no less than 4" and no greater than 6".
 - Asphalt Concrete shall be constructed in 2 lifts; paving joint of final lift shall not fall within the traffic lanes (& is permissible).

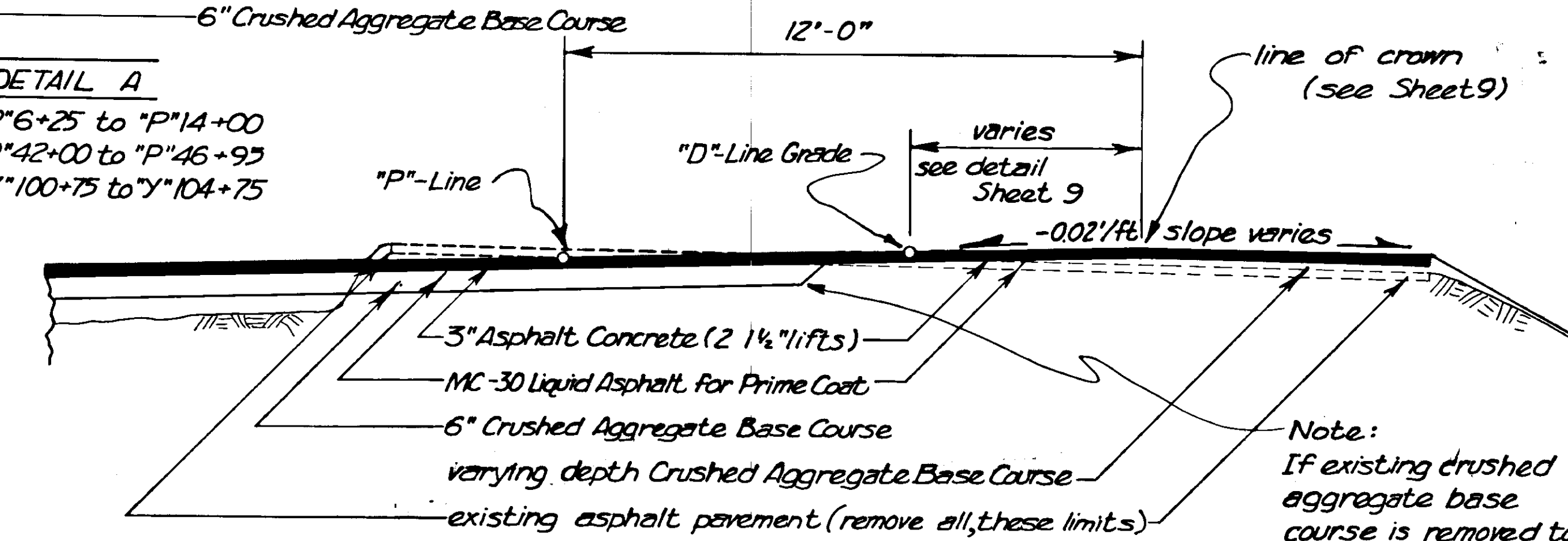


TYPICAL SECTION OF IMPROVEMENT
 Stations "P" 2+24.34 to "P" 46+95.44 & "Y" 100+00.00 to "Y" 109+27.06

- Decrease left shoulder width to 4'-0" from "P" 38+13.92 to "P" 46+95.44 & "Y" 100+00.00 to "Y" 105+28.23 (unless specified otherwise on the Intersection Construction Detail Sheets).
- See Detail A (this sheet) if additional embankment is required between existing grade surface and bottom of Crushed Aggregate Base Course.

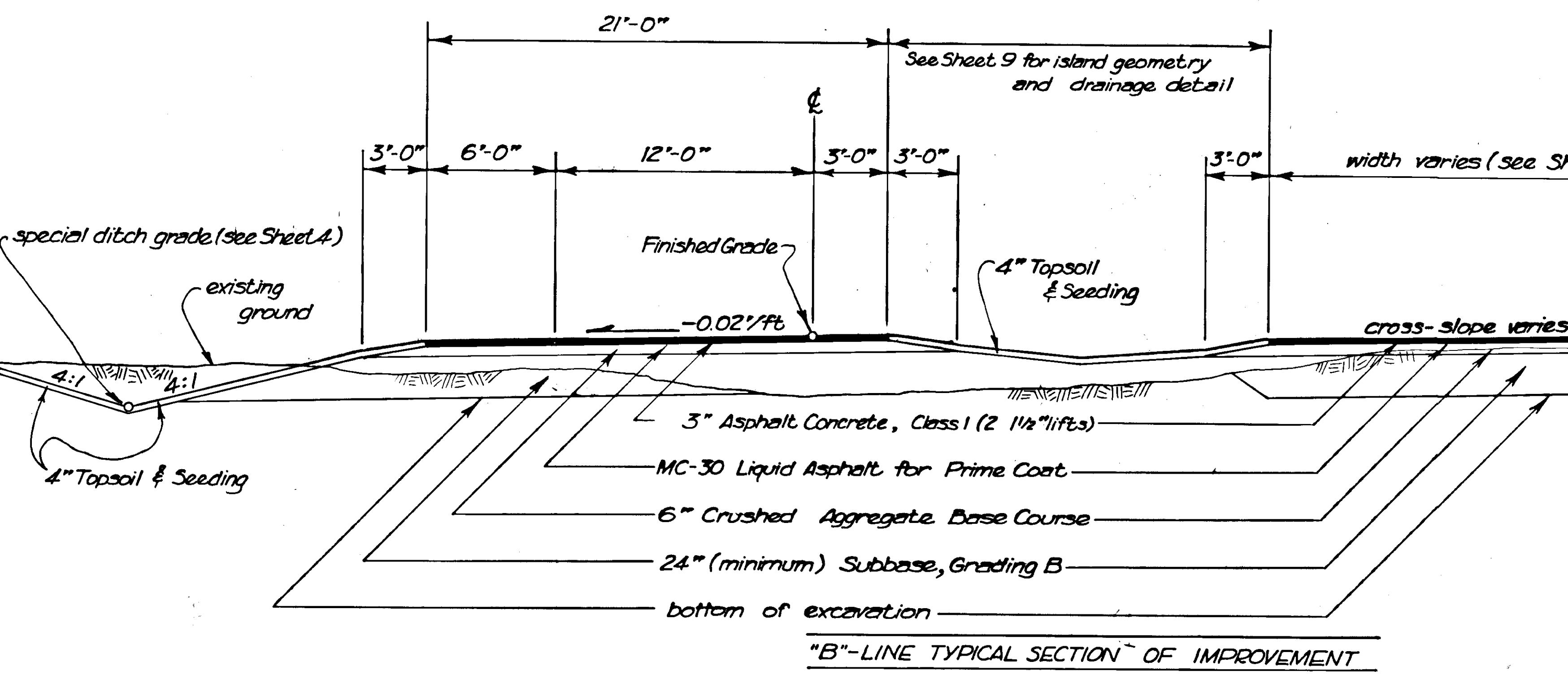


DETAIL A
 Stations: "P" 6+25 to "P" 14+00
 "P" 42+00 to "P" 46+95
 "Y" 100+75 to "Y" 104+75

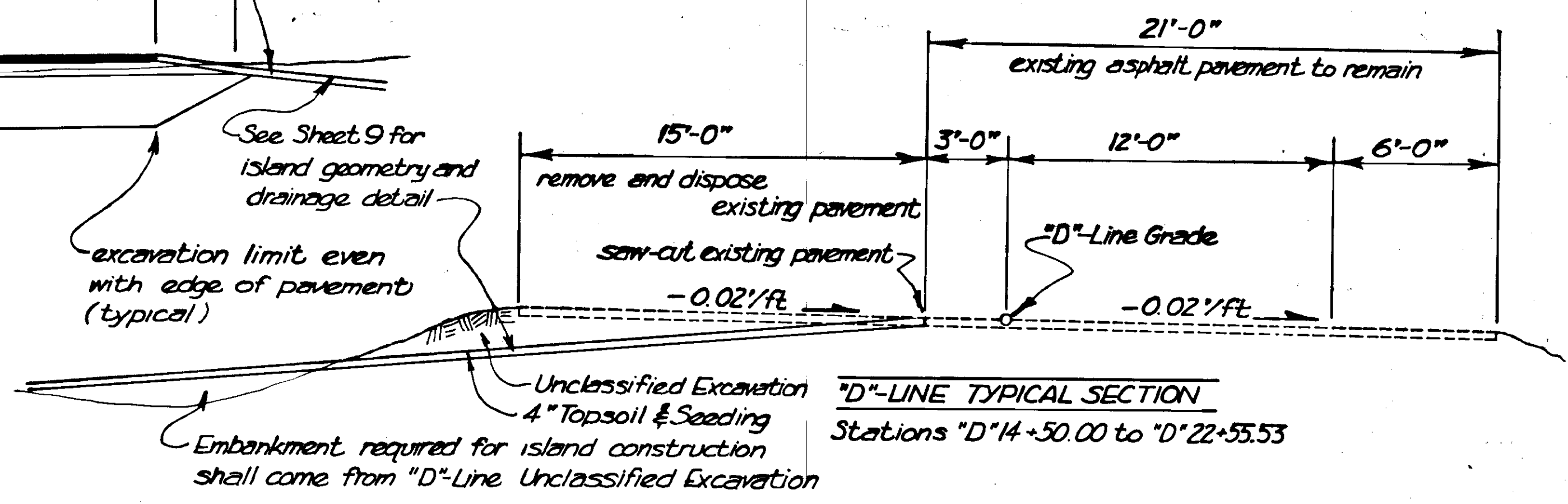


"D"-LINE TYPICAL SECTION
 Stations "D" 10+00.00 to "D" 14+50.00

Note: If existing crushed aggregate base course is removed to accommodate new Asphalt Concrete, excavate to allow for a 6" depth of new Crushed Aggregate Base Course.



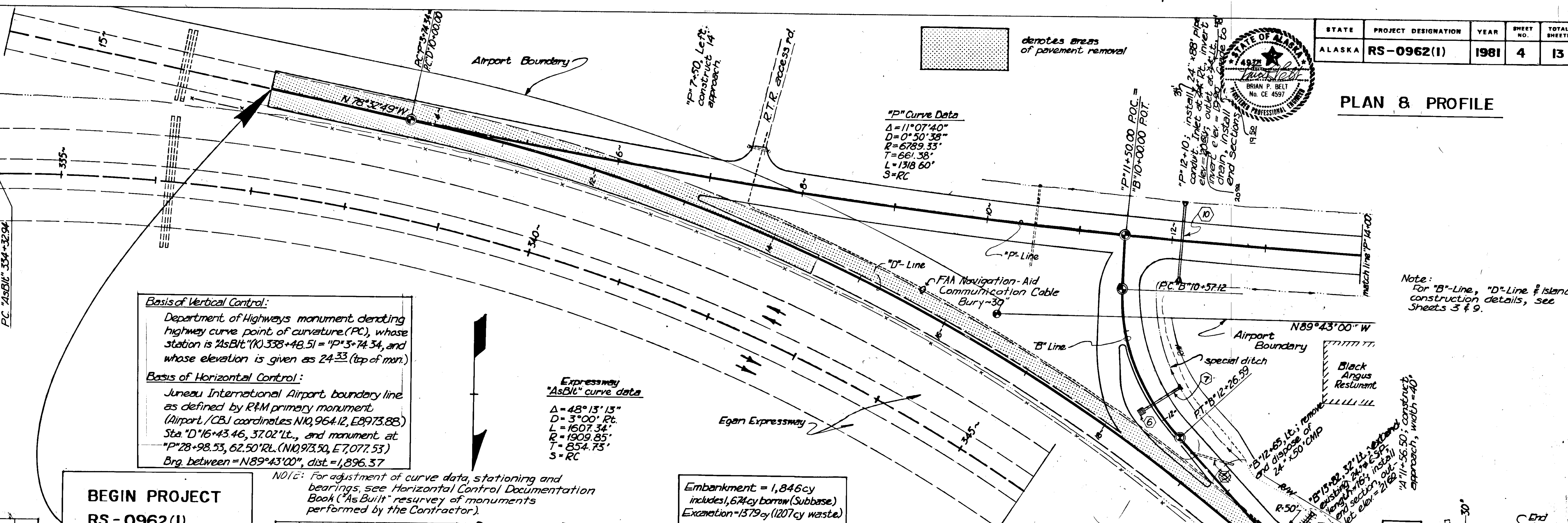
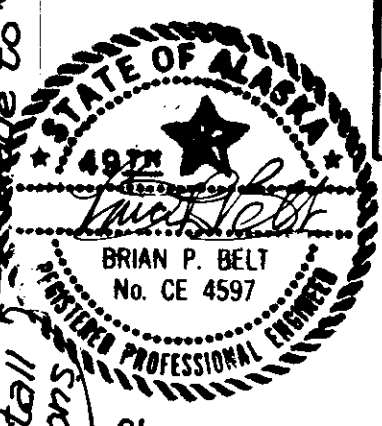
"B"-LINE TYPICAL SECTION OF IMPROVEMENT



"D"-LINE TYPICAL SECTION
 Stations "D" 14+50.00 to "D" 22+55.53

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962(1)	1981	4	13

PLAN & PROFILE



***P* Curve Data**
 $\Delta = 11^{\circ}07'40''$
 $D = 0^{\circ}50'38''$
 $R = 6769.33'$
 $T = 661.38'$
 $L = 1318.60'$
 $S = RC$

Expressway *AsBlt* curve data
 $\Delta = 48^{\circ}13'13''$
 $D = 3^{\circ}00'00''$
 $L = 1607.34'$
 $R = 1909.85'$
 $T = 854.75'$
 $S = RC$

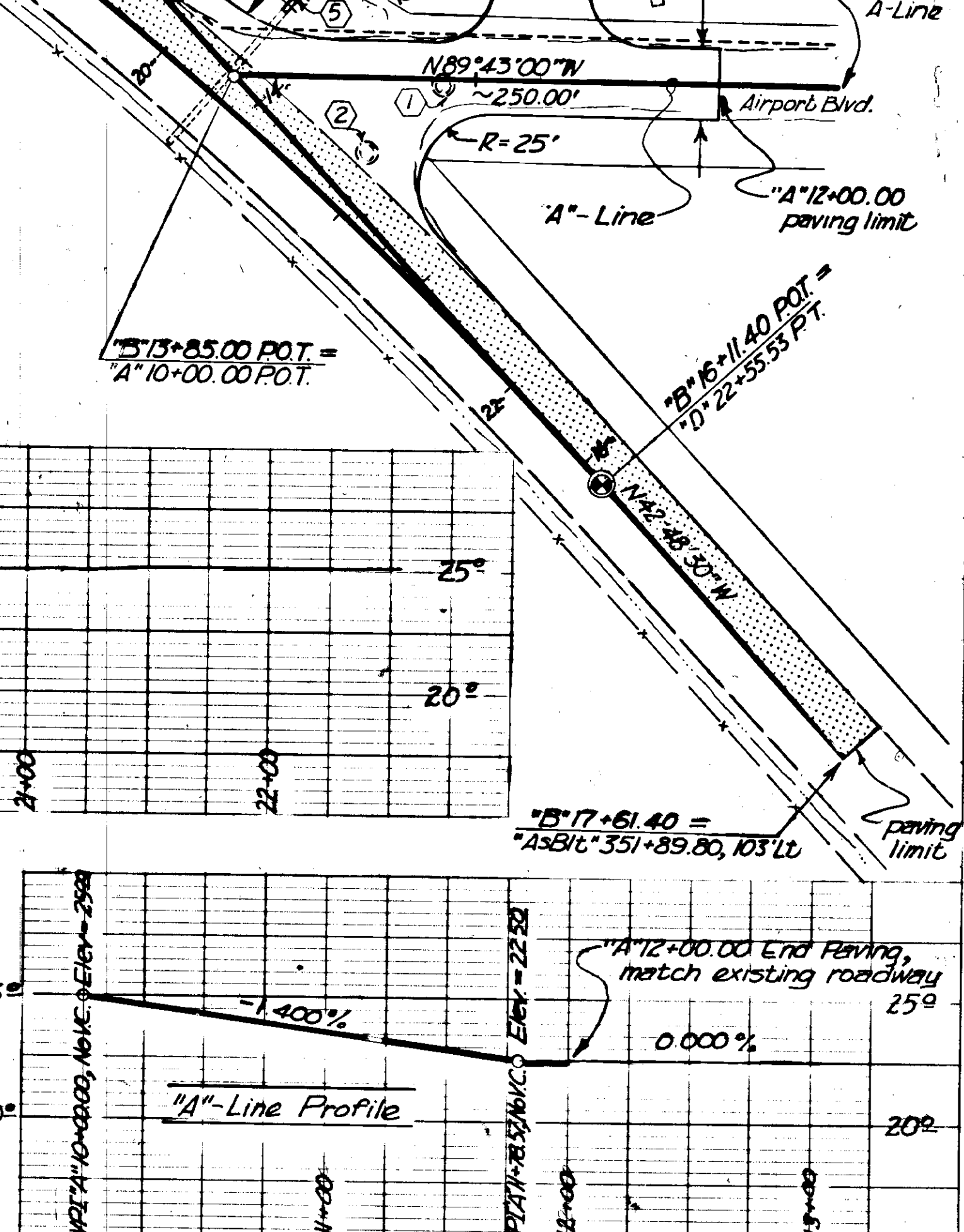
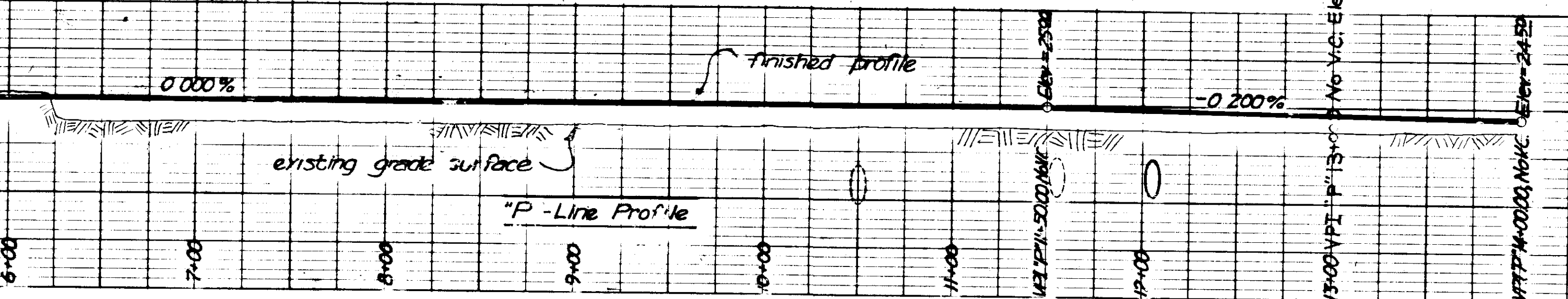
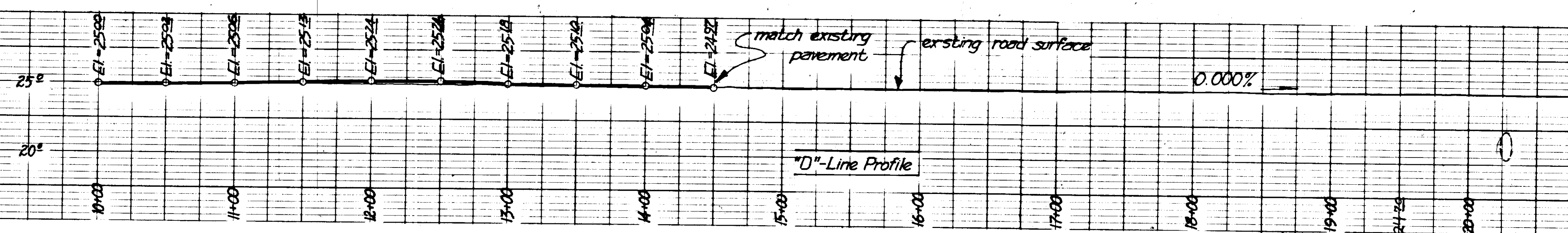
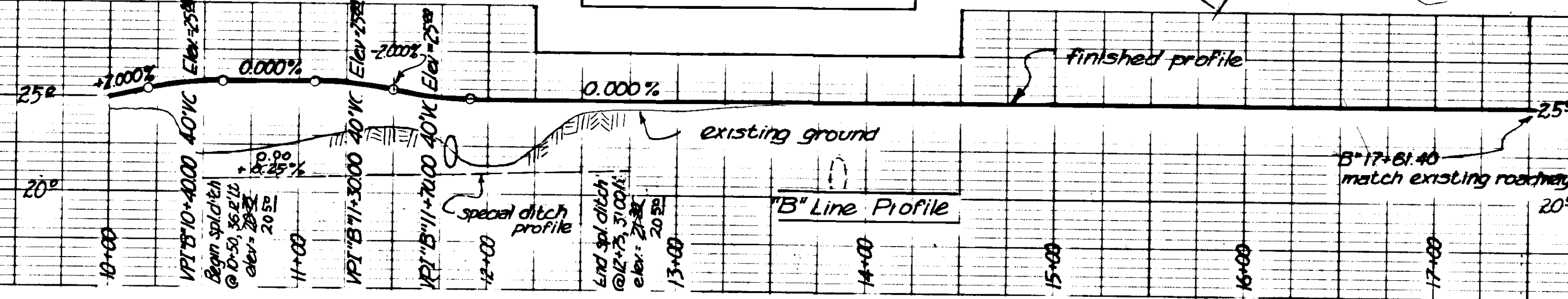
Basis of Vertical Control:
 Department of Highways monument denoting highway curve point of curvature (PC), whose station is "AsBlt" (K) 338+48.51 = "P" 3+74.34, and whose elevation is given as 24.33 (top of mon.)

Basis of Horizontal Control:
 Juneau International Airport boundary line as defined by R&M primary monument (Airport/CBI coordinates N10,964.12, E8973.88) Sta. "D" 16+43.46, 37.02' Lt., and monument at "P" 28+98.53, 62.50' Rt. (N10,973.50, E 7,077.53) Brg. between = N89°43'00", dist = 1,896.37

NOTE: For adjustment of curve data, stationing and bearings, see Horizontal Control Documentation Book ("As Built" resurvey of monuments performed by the Contractor).

Embankment = 1,846cy includes 1,674cy borrow (Subbase)
 Excavation = 1379cy (1207cy waste)

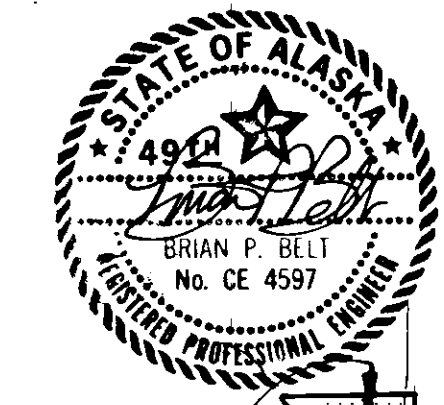
BEGIN PROJECT
RS - 0962 (1)
 "AsBlt" (K) 336+98.51 = "P" 2+24.34



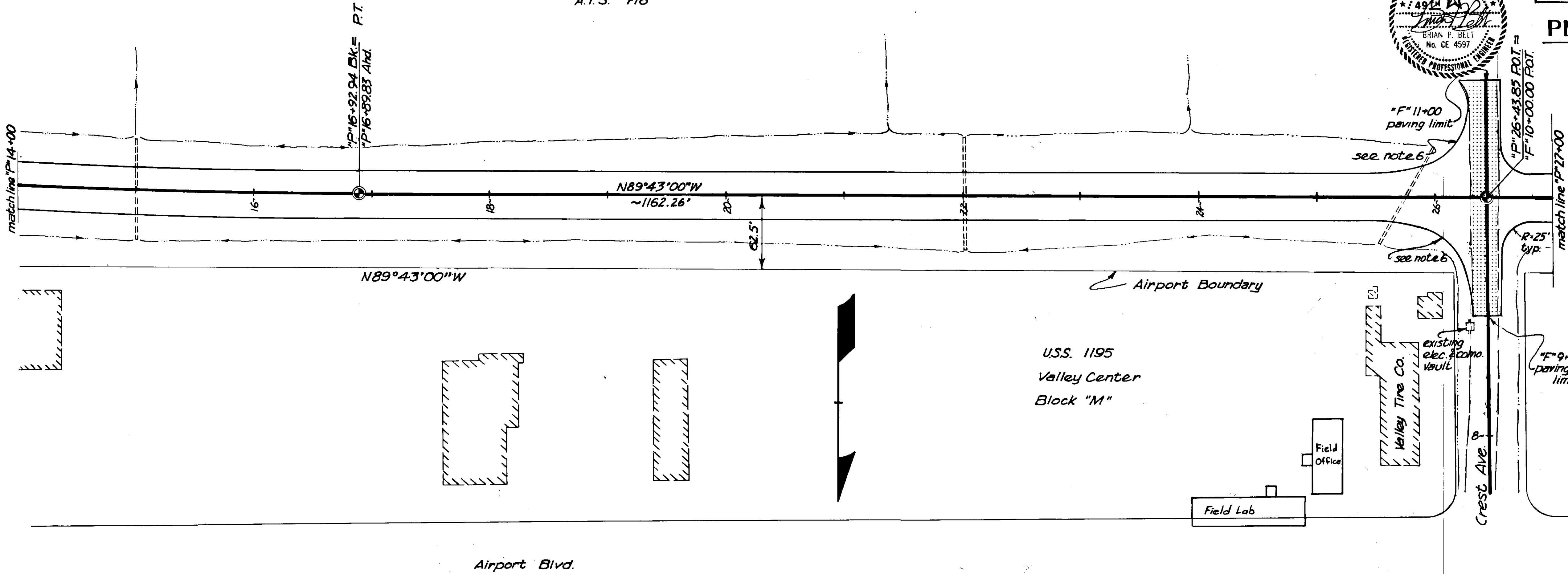
Note: For "B" Line, "D" Line & Island construction details, see Sheets 3 & 9.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962 (1)	1981	5	13

PLAN & PROFILE (CONT'D)

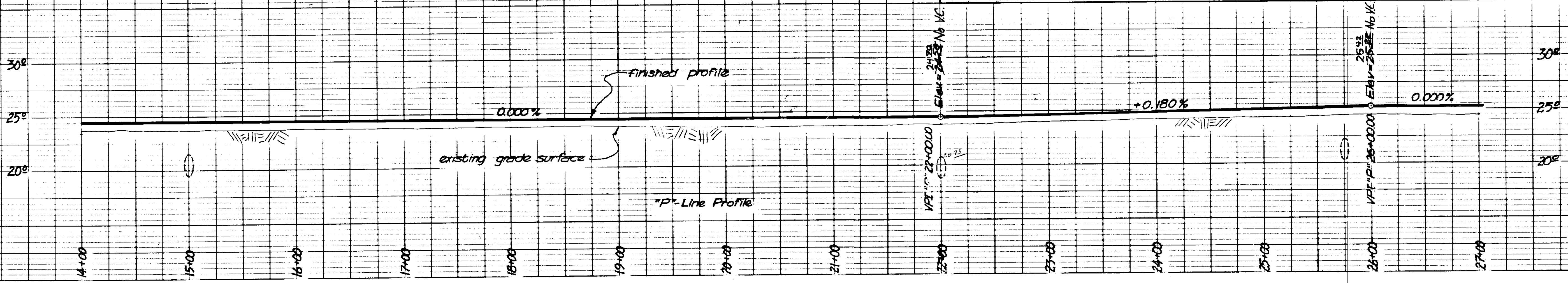
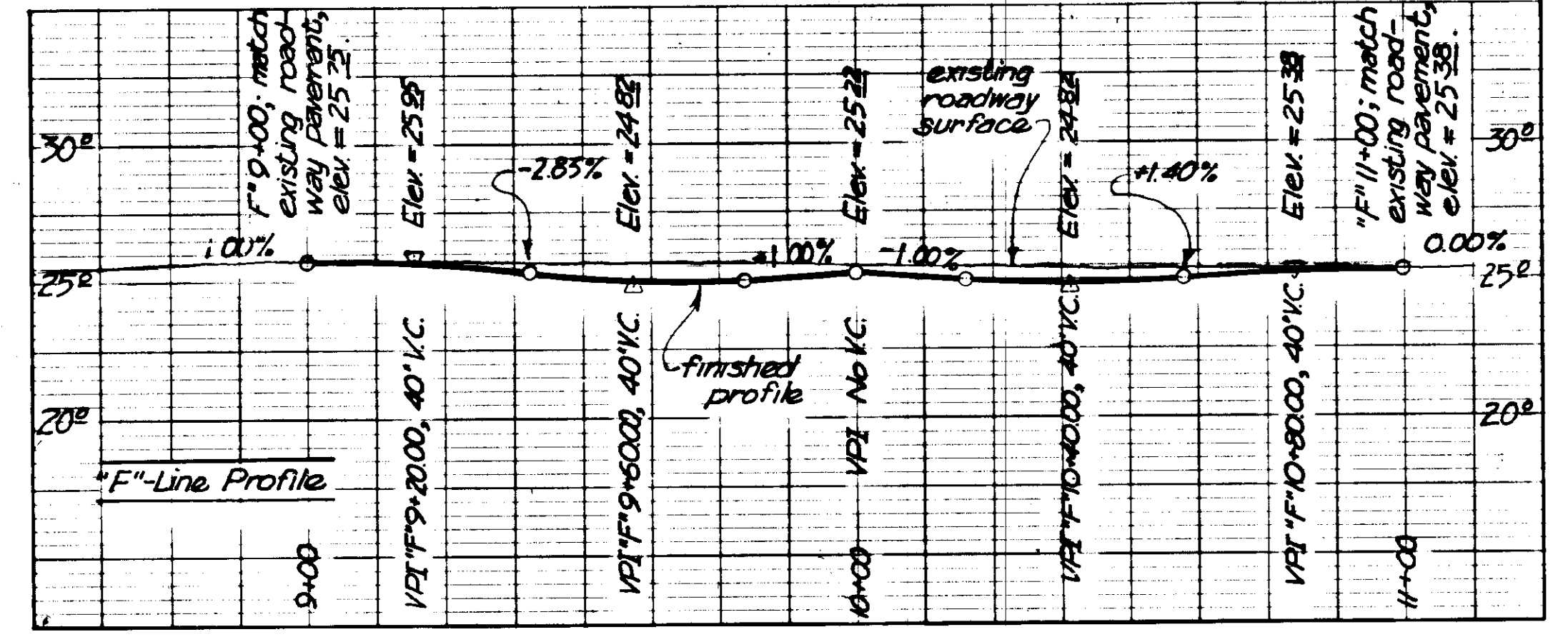


A.T.S. 716

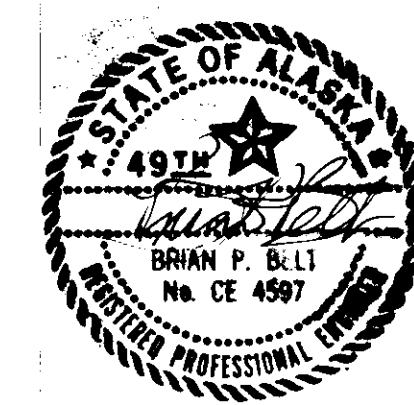


- "F"-LINE PAVING NOTES:**
1. Saw-cut and remove existing pavement between limits shown; estimated quantity = 600 sq. yds.
 2. Excavate, remove and dispose of material to a depth of 0.75' below finished grade. This quantity is approximately 264 cu. yds. Payment for this work shall be paid as Item 203(3A) Unclassified Excavation.
 3. Pavement depth = 3" (2 1/2" lifts), width = 24'; install 6" lift of Crushed Aggregate Base Course beneath pavement.
 4. Crown = 0.02' / ft.
 5. Construct pavement match joints as shown on Sheet 2, at "F"-Line paving extremities.
 6. NE & SE quadrant of intersection, construct 3-cnr. curve as per Std. Drwg. I 40.21

Embankment = 27cy
includes 27cy borrow (all Subbase)
Excavation = 264 cy (all waste.)



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEETS
ALASKA	RS-0962(I)	1981	6	13



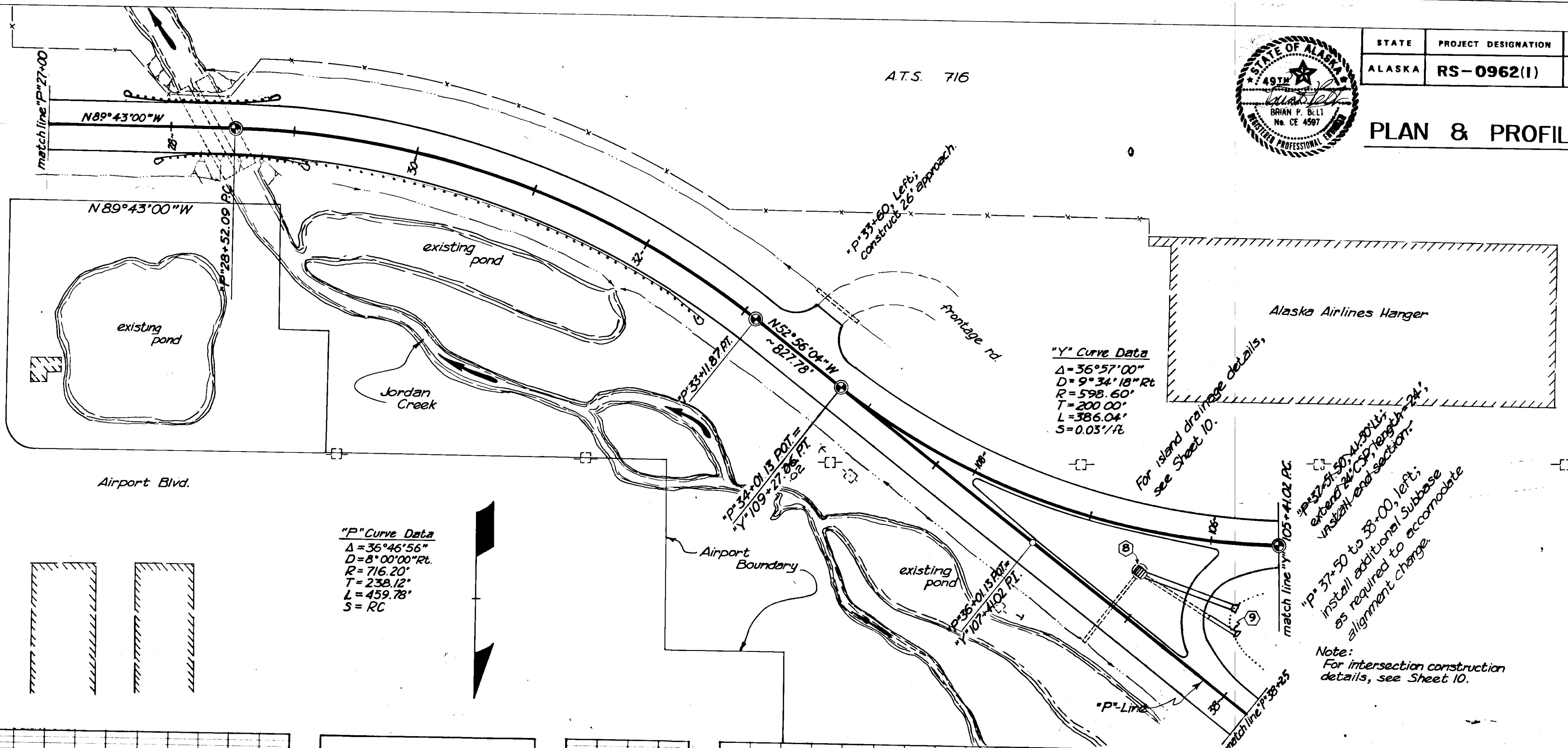
PLAN & PROFILE (CONT'D)

ATS. 716

GUARDRAIL SCHEDULE

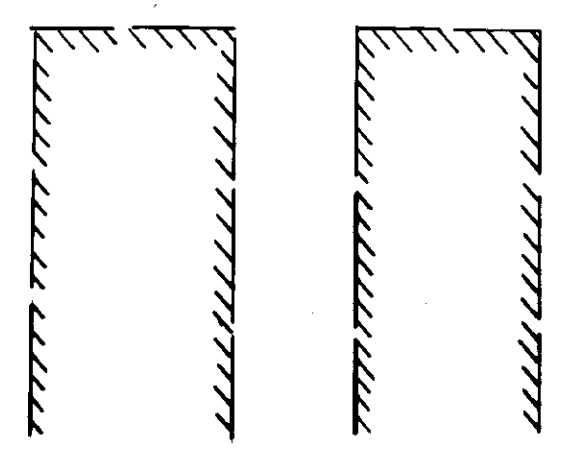
Left		Right	
Station	Offset	Station	Offset
27+62.50	22.00'	27+87.50	22.00'
28+00.00	18.00'	28+25.00	18.00'
28+30.00	18.00'	28+75.00	18.00'
28+87.50	22.00'	29+12.50	22.00'

- Notes:
1. Adjust stationing so that post does not coincide with top of plate arch culvert.
 2. Guardrail quantity = $\frac{600}{250}$ linear ft.
 3. See relevant guardrail Standard Drawings listed on Sheet 1.



"Y" Curve Data
 $\Delta = 36^{\circ}57'00''$
 $D = 9^{\circ}34'18''Rt$
 $R = 598.60'$
 $T = 200.00'$
 $L = 386.04'$
 $S = 0.03'/R$

"P" Curve Data
 $\Delta = 36^{\circ}46'56''$
 $D = 8^{\circ}00'00''Rt$
 $R = 716.20'$
 $T = 238.12'$
 $L = 459.78'$
 $S = RC$

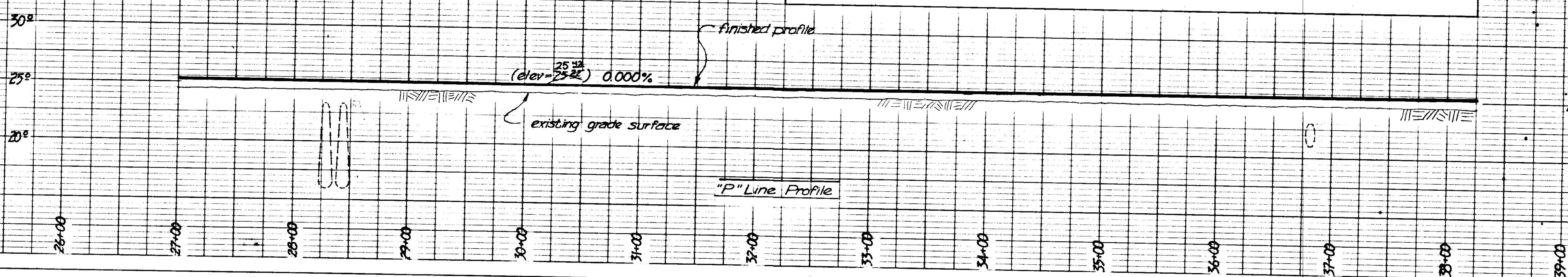
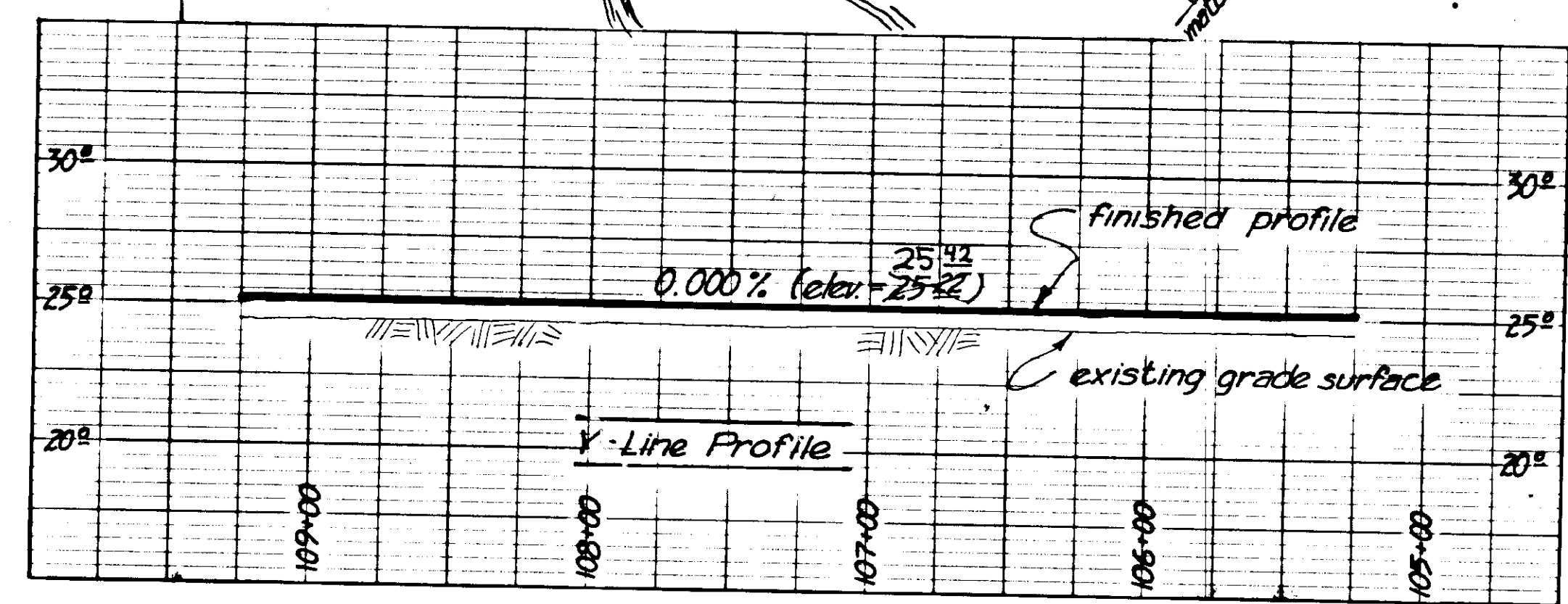


Note:
 For intersection construction details, see Sheet 10.

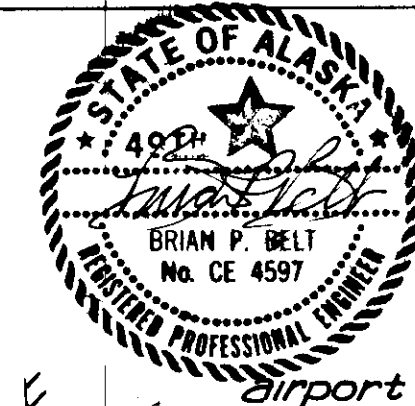
Note:
 For island drainage details, see Sheet 10.

Note:
 "P" 37+50 to 38+00, left; install additional Subbase as required to accommodate alignment change.

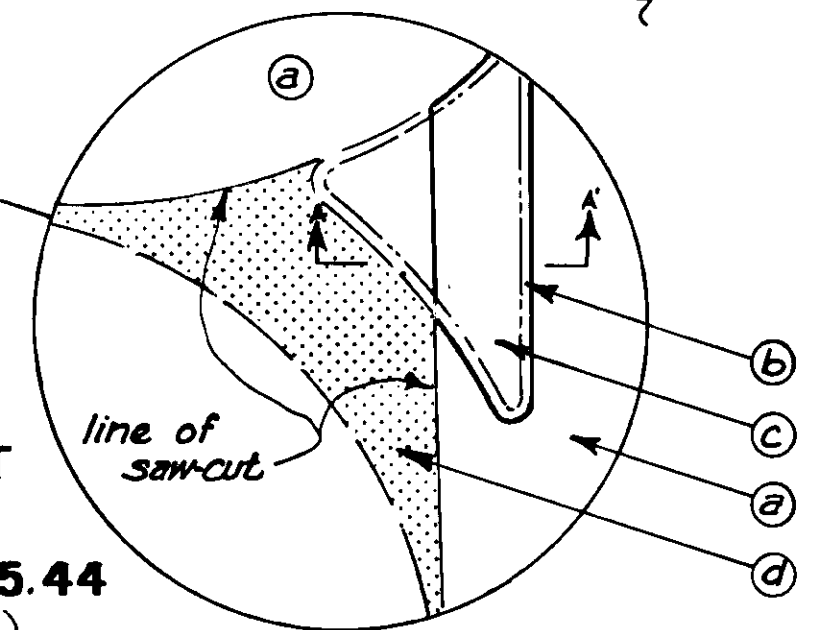
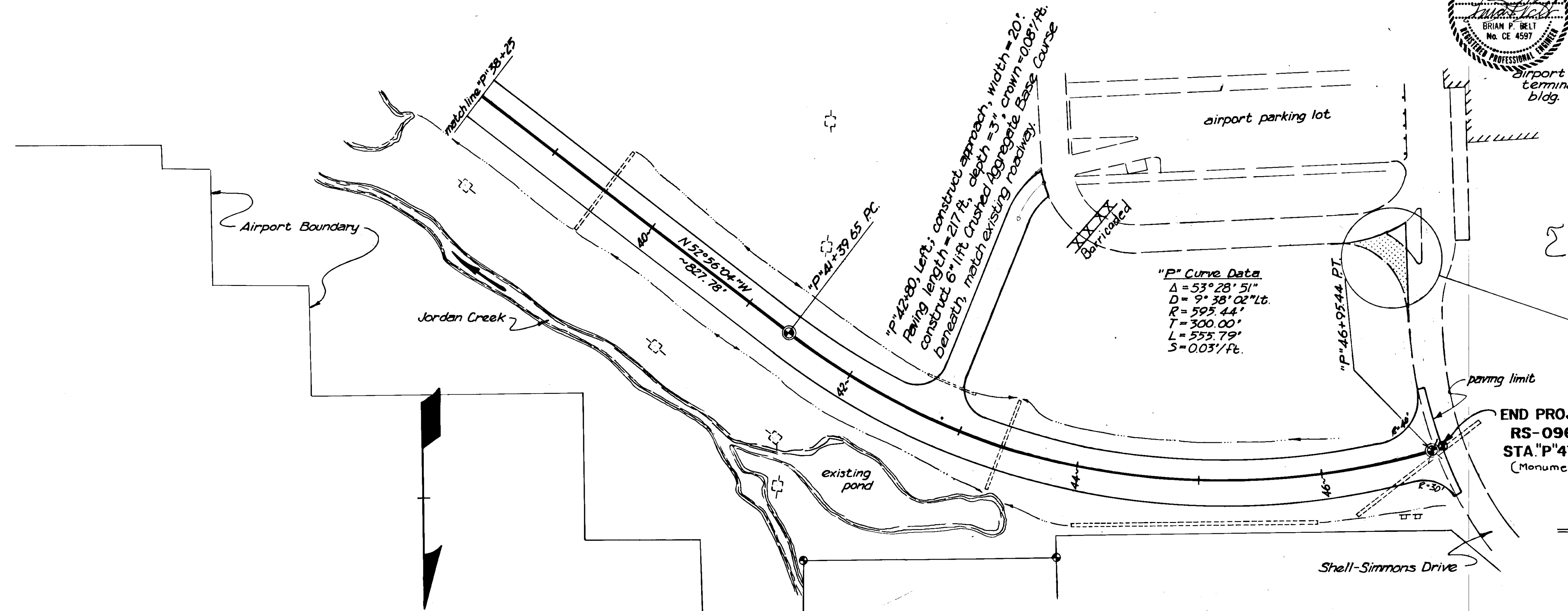
Embankment = 129cy
 includes 129cy borrow (all Subbase)
 Excavation = 0



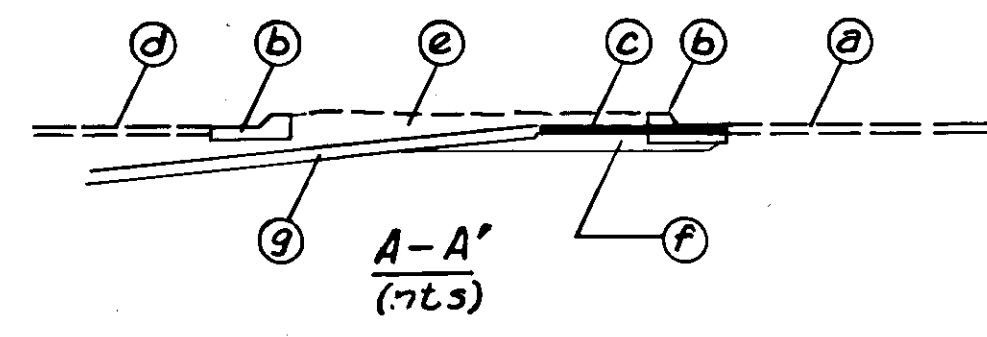
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962(1)	1981	7	13



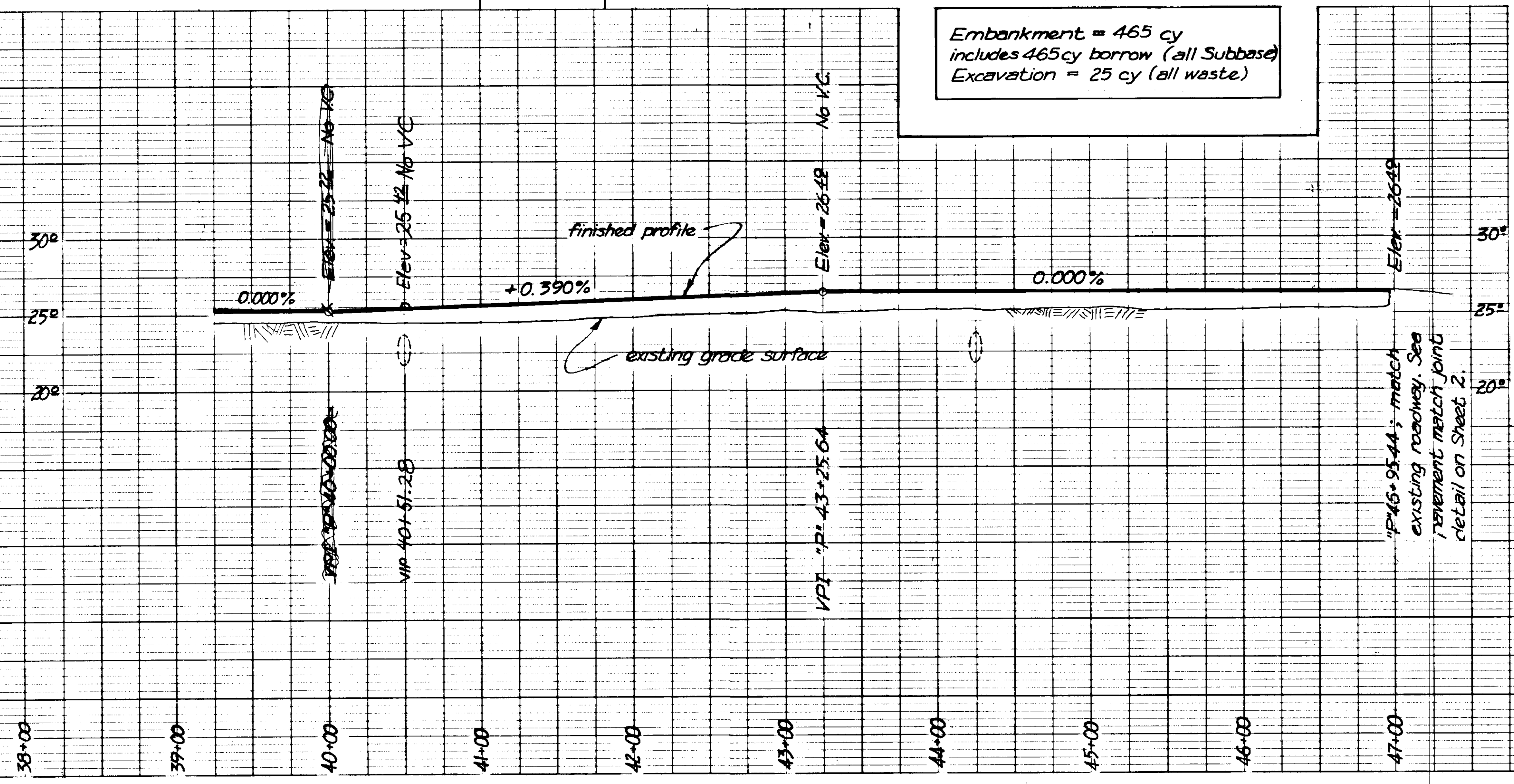
PLAN & PROFILE (CONT'D)



END PROJECT
RS-0962(1)
STA "P" 47+05.44
(Monumented)

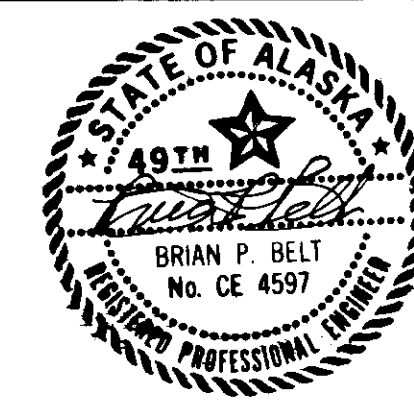


Embankment = 465 cy
includes 465 cy borrow (all Subbase)
Excavation = 25 cy (all waste.)



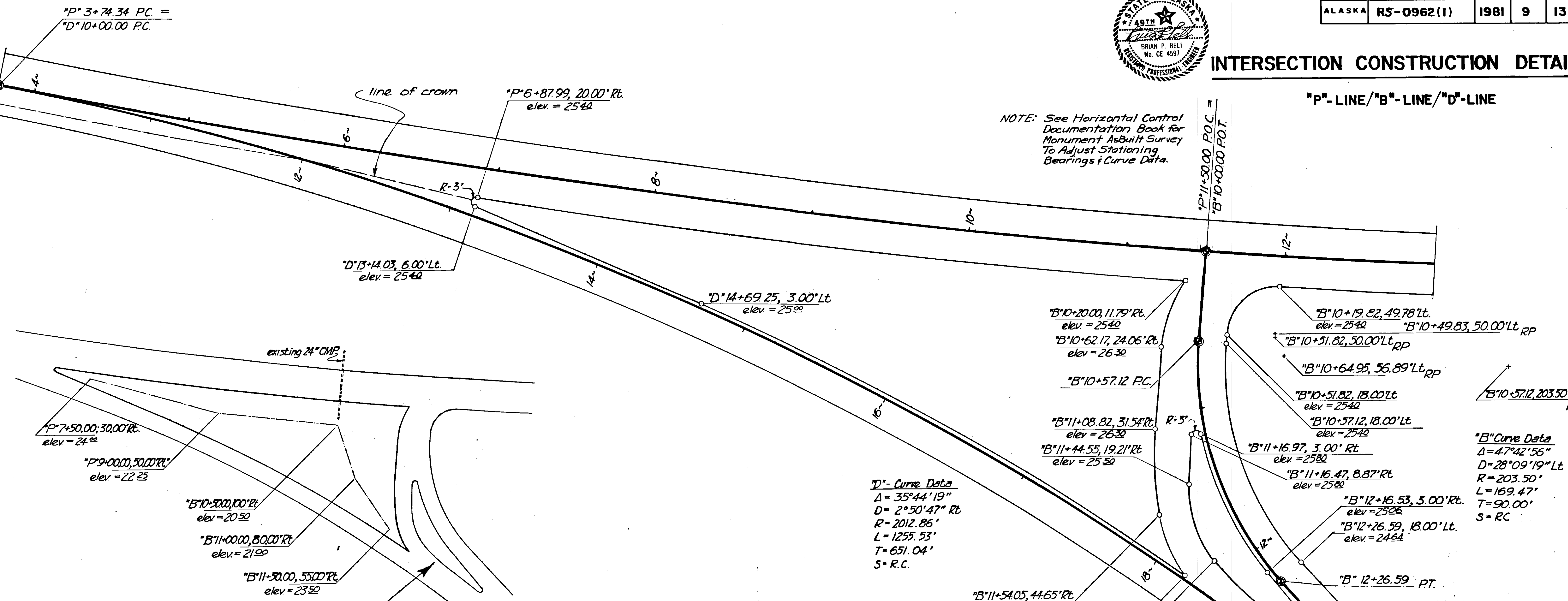
- a existing pavement to remain in place
- b existing concrete curb & gutter to be removed, estimated quantity = 120 lin. ft.; to be paid for incidental to other items of work.
- c 5" Hot Asphalt Pavement, estimated quantity = 9.0 Tons.
- d saw-cut, remove and dispose of existing pavement, estimated quantity = 78 sq. yds; paid for under Item 202(2A).
- e Unclassified Excavation, estimated quantity = 25 cu yds. (grade to drain).
- f 6" Crushed Aggregate Base Course, estimated quantity = 17 Tons.
- g 4" Topsoil & Seeding, estimated quantity = 1200 sq. ft.

PARKING LOT INTERSECTION MODIFICATION DETAIL

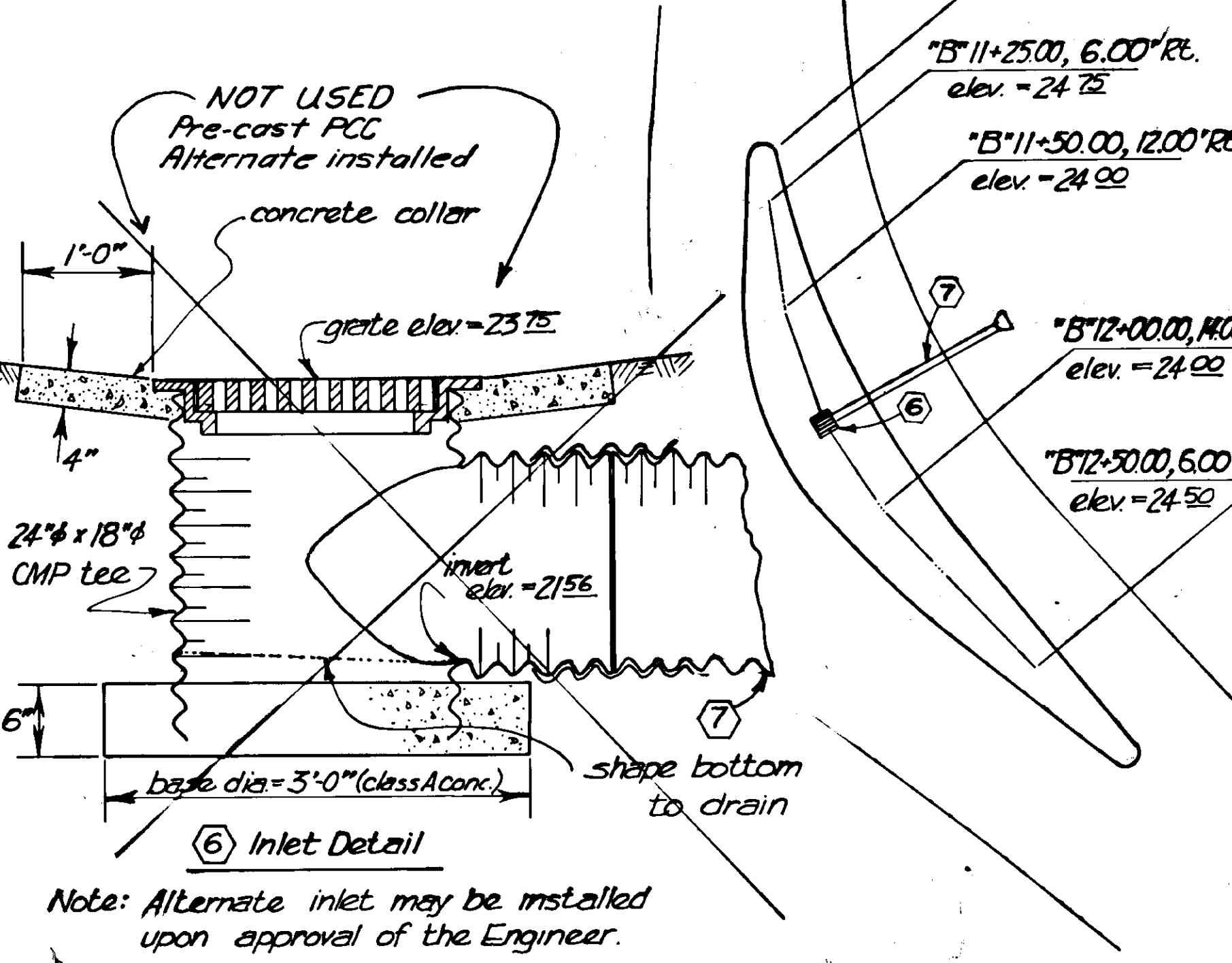


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962(1)	1981	9	13

INTERSECTION CONSTRUCTION DETAIL



ISLAND DRAINAGE DETAILS



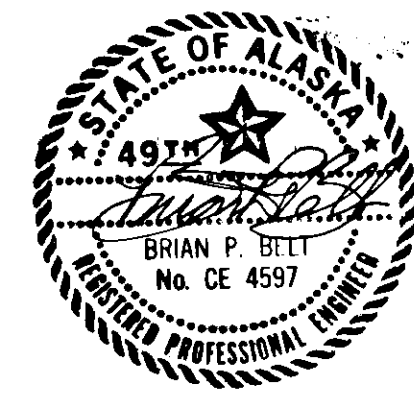
RADIUS POINT LOCATIONS (all stationing is "B"-Line)

CURVE		RP LOCATION	REMARK	LENGTH RADIUS
FROM	TO			
10+20.00, 11.79' Rt.	10+62.17, 24.06' Rt.	10+64.95, 56.89' Lt.	Pavement Edge	81.0'
10+20.50, 5.00' Rt.	10+62.30, 18.08' Rt.	"	Edge Traveled Way (striping)	75.0'
10+35.94	10+62.30, 6.08' Rt.	"	"	63.0'
10+19.82, 49.78' Lt.	10+51.82, 18.00' Lt.	10+51.82, 50.00' Lt.	Pavement Edge	32.0'
10+12.00, 50.00' Lt.	10+49.83, 12.00' Lt.	10+49.83, 50.00' Lt.	Edge Traveled Way (striping)	38.0'
10+57.12, 18.00' Lt.	12+26.59, 18.00' Lt.	10+57.12, 203.50' Lt.	Pavement Edge	185.5'
10+57.12	12+26.59	"	Edge Traveled Way (striping)	191.5'
10+57.12	12+26.59	"	"	203.5'
11+16.97, 3.00' Rt.	12+16.53, 3.00' Rt.	"	Pavement Edge	206.5'
11+08.82, 31.54' Rt.	11+54.05, 44.65' Rt.	12+59.32, 153.40' Lt.	Pavement Edge	218.0'
11+10.16, 25.74' Rt.	11+55.17, 38.81' Rt.	"	Edge Traveled Way (striping)	212.0'
11+13.05, 14.17' Rt.	11+57.56, 27.12' Rt.	"	"	200.0'
11+44.55, 19.21' Rt.	11+90.58, 26.65' Rt.	11+80.45, 44.72' Lt.	Pavement Edge	72.0'
11+57.56, 27.12' Rt.	11+90.86, 29.63' Rt.	"	Edge Traveled Way (striping)	75.0'
11+55.17, 38.81' Rt.	11+91.94, 41.57' Rt.	"	"	87.0'
11+54.05, 44.65' Rt.	11+88.96, 47.90' Rt.	"	"	93.0'
11+90.58, 26.65' Rt.	12+35.83, 20.08' Rt.	10+76.30, 162.93' Lt.	Pavement Edge	197.0'
11+90.86, 29.63' Rt.	12+36.33, 23.03' Rt.	"	Edge Traveled Way (striping)	200.0'
11+91.94, 41.57' Rt.	12+18+80.57	"	"	212.0'

* defines 3-centered curve whose data is:
 $\Delta = 58^{\circ}24'18''$
 $\theta = 4.00'$
 $R_1 = 200.00'$
 $R_2 = 75.00'$

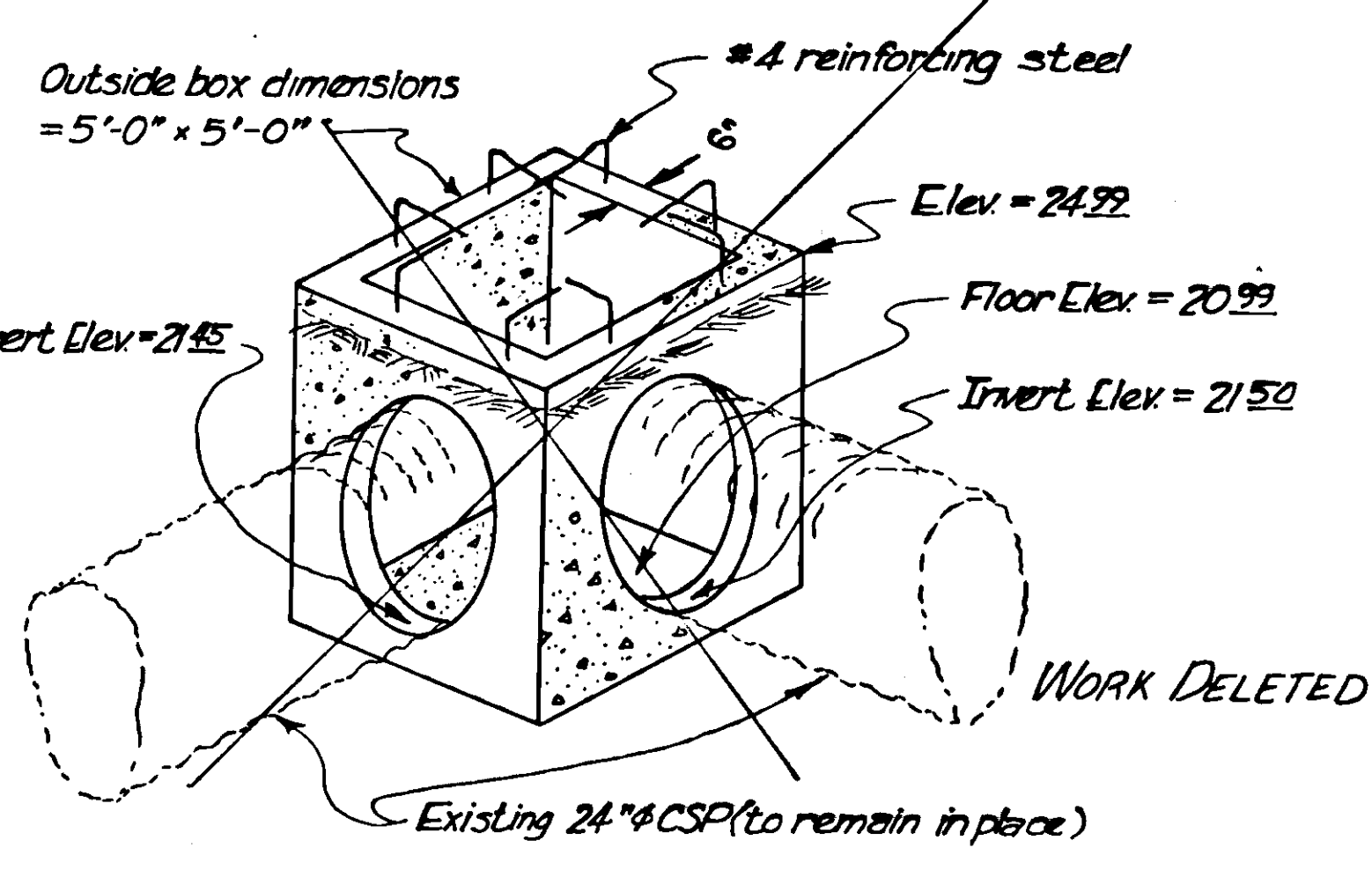
LINE OF CROWN LOCATION

STATION	OFFSET	ELEVATION	R.S.H. ELEV
"D" 10+50.00	11.00' Rt.	25.24	25.24
"D" 11+00.00	9.00' Rt.	25.24	25.22
"D" 11+50.00	5.50' Rt.	25.24	25.11
"D" 12+00.00	0	25.24	24.92
"D" 12+50.00	3.50' Lt.	25.31	24.88
"D" 13+00.00	8.00' Lt.	25.40	24.82
"B" 12+81.96	11.94' Rt.	25.24	
"D" 19+50.00	10.50' Lt.	25.12	
"D" 20+00.00	7.00' Lt.	25.12	
"D" 20+50.00	4.50' Lt.	25.09	
"D" 21+00.00	2.50' Lt.	25.12	
"D" 21+50.00	1.50' Lt.	25.16	
"D" 22+55.33	0	25.02	

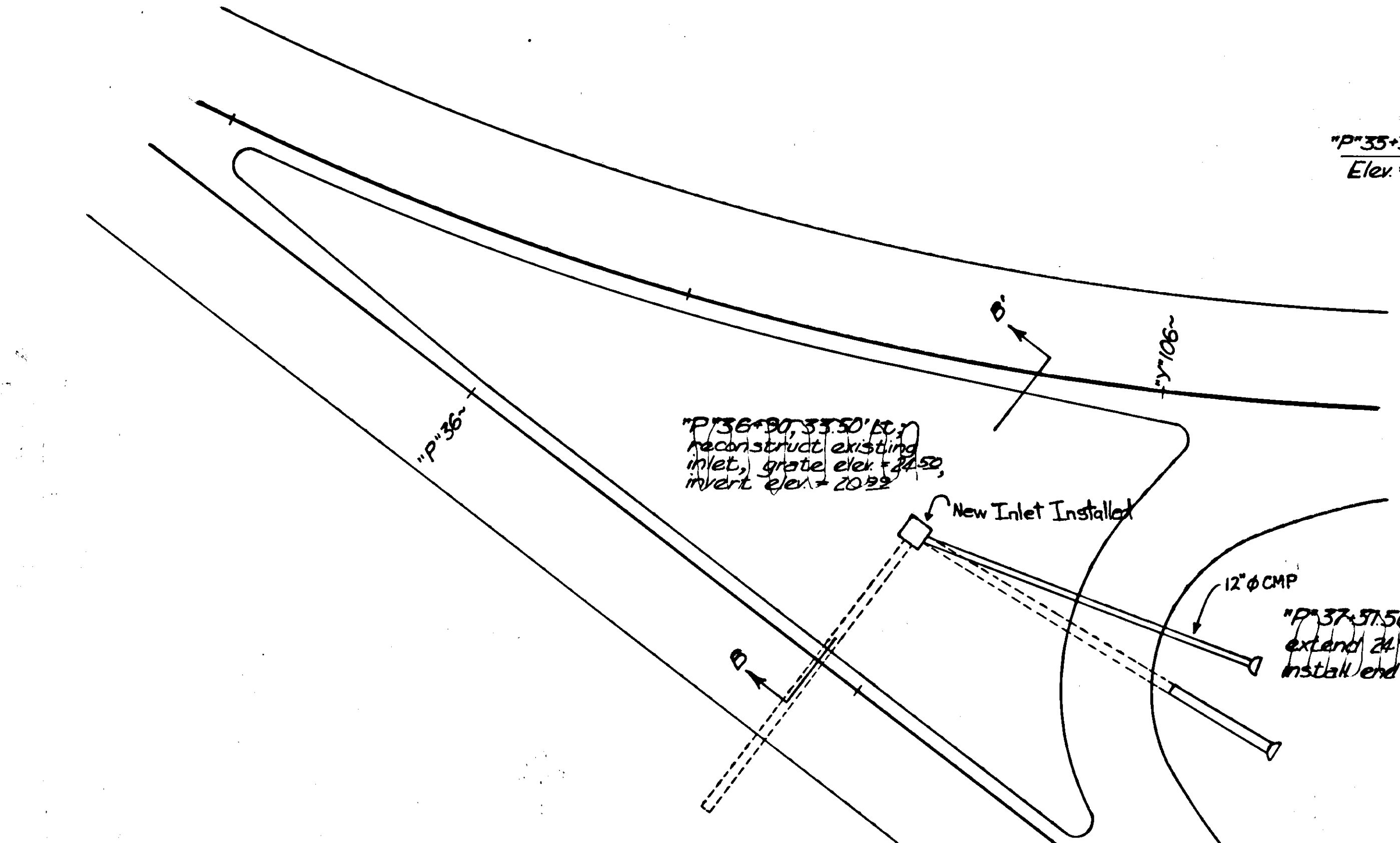
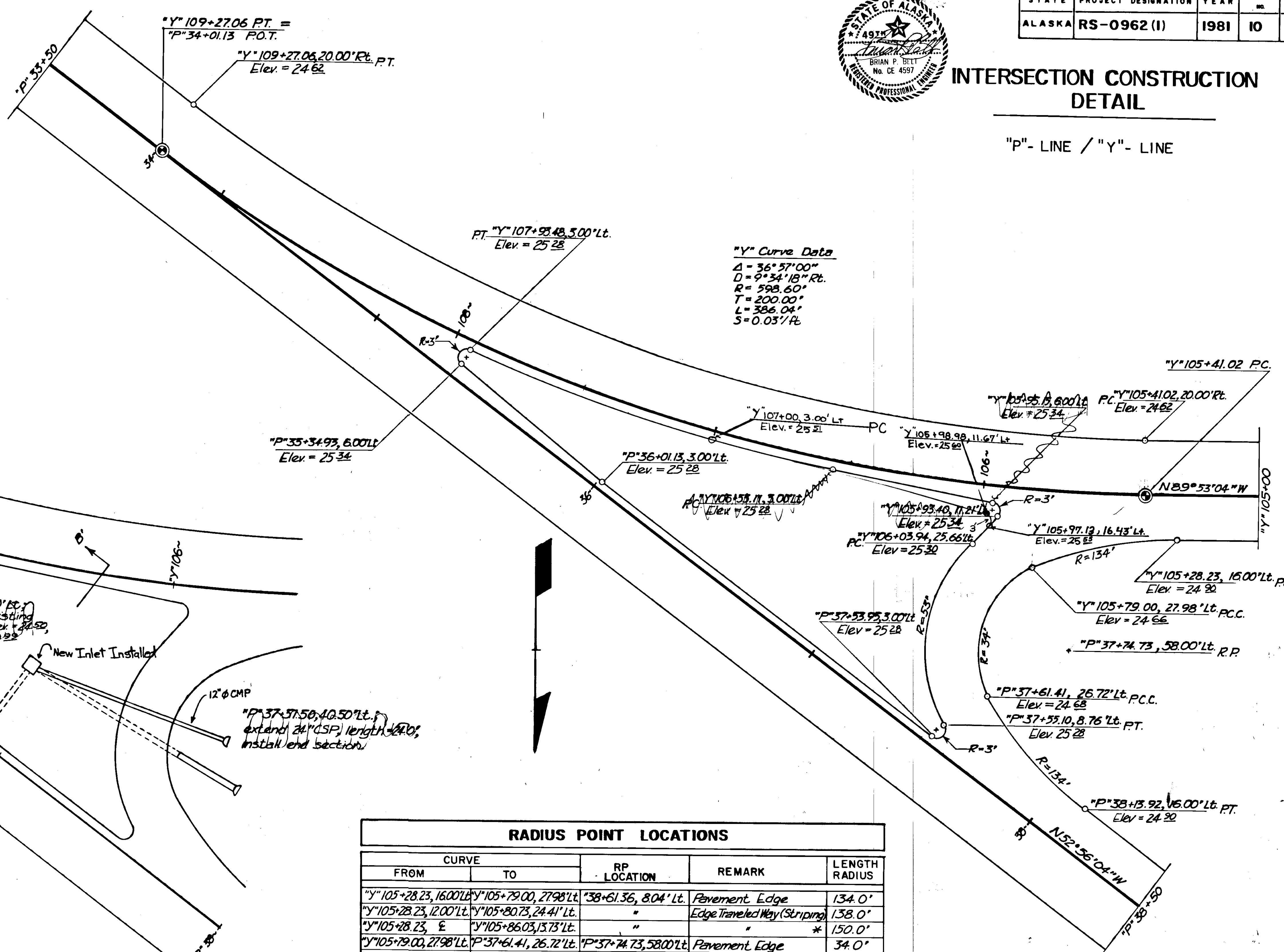


INTERSECTION CONSTRUCTION DETAIL

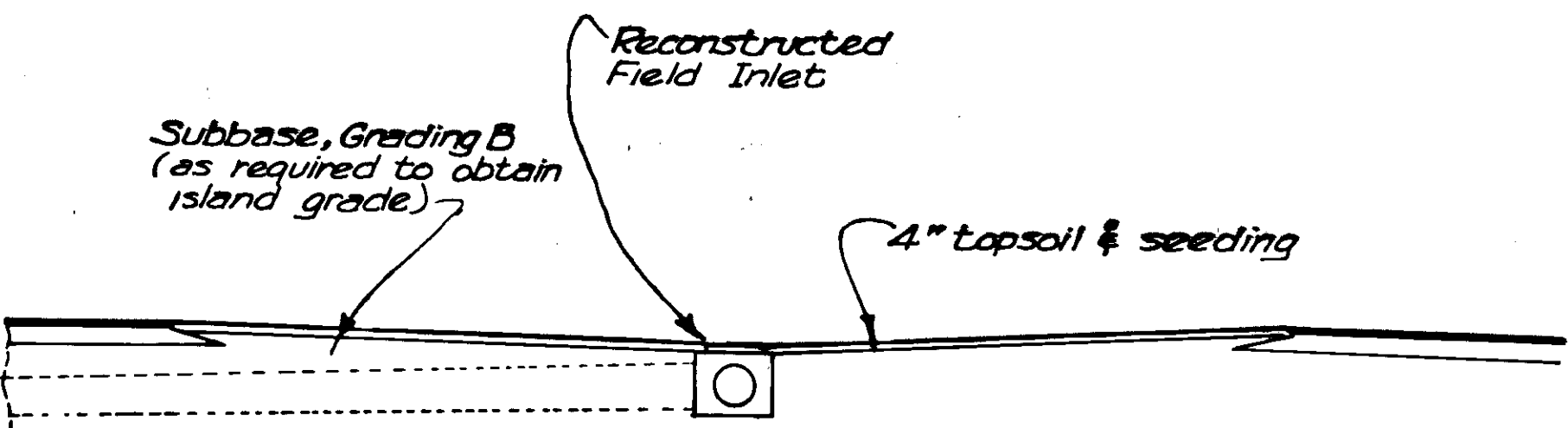
"P"- LINE / "Y"- LINE



EXISTING FIELD INLET FOR RECONSTRUCTION



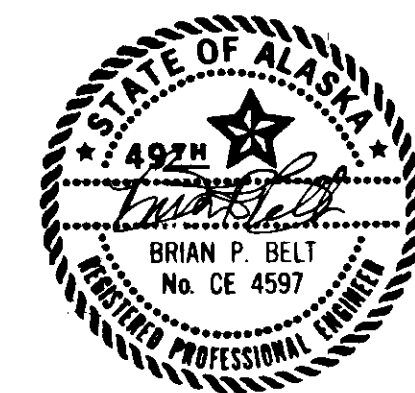
ISLAND DRAINAGE DETAIL



Section B-B'
(N.T.S.)

RADIUS POINT LOCATIONS				
CURVE		RP LOCATION	REMARK	LENGTH RADIUS
FROM	TO			
"Y" 105+28.23, 16.00' Lt.	"Y" 105+79.00, 27.98' Lt.	"P" 38+61.36, 8.04' Lt.	Pavement Edge	134.0'
"Y" 105+28.23, 12.00' Lt.	"Y" 105+80.73, 24.41' Lt.	"	Edge Traveled Way (Striping)	138.0'
"Y" 105+28.23, E	"Y" 105+86.03, 13.73' Lt.	"	"	* 150.0'
"Y" 105+79.00, 27.98' Lt.	"P" 37+61.41, 26.72' Lt.	"P" 37+74.73, 58.00' Lt.	Pavement Edge	34.0'
"Y" 105+80.73, 24.41' Lt.	"P" 37+59.84, 23.04' Lt.	"	Edge Traveled Way (Striping)	38.0'
"Y" 105+86.03, 13.73' Lt.	"P" 37+55.14, 12.00' Lt.	"	"	* 50.0'
"Y" 106+03.94, 25.66' Lt.	"P" 37+55.10, 8.76' Lt.	"	Pavement Edge	53.0'
"P" 37+61.41, 26.72' Lt.	"P" 38+13.92, 16.00' Lt.	"Y" 104+80.79, 8.03' Lt.	"	134.0'
"P" 37+59.84, 23.04' Lt.	"P" 38+13.92, 12.00' Lt.	"	Edge Traveled Way (Striping)	138.0'
"P" 37+55.14, 12.00' Lt.	"P" 38+13.92, E	"	"	* 150.0'

* defines 3-centered curve whose data is: Δ = 143° 03' 00"
 o = 8'
 R = 150'
 R₂ = 50'



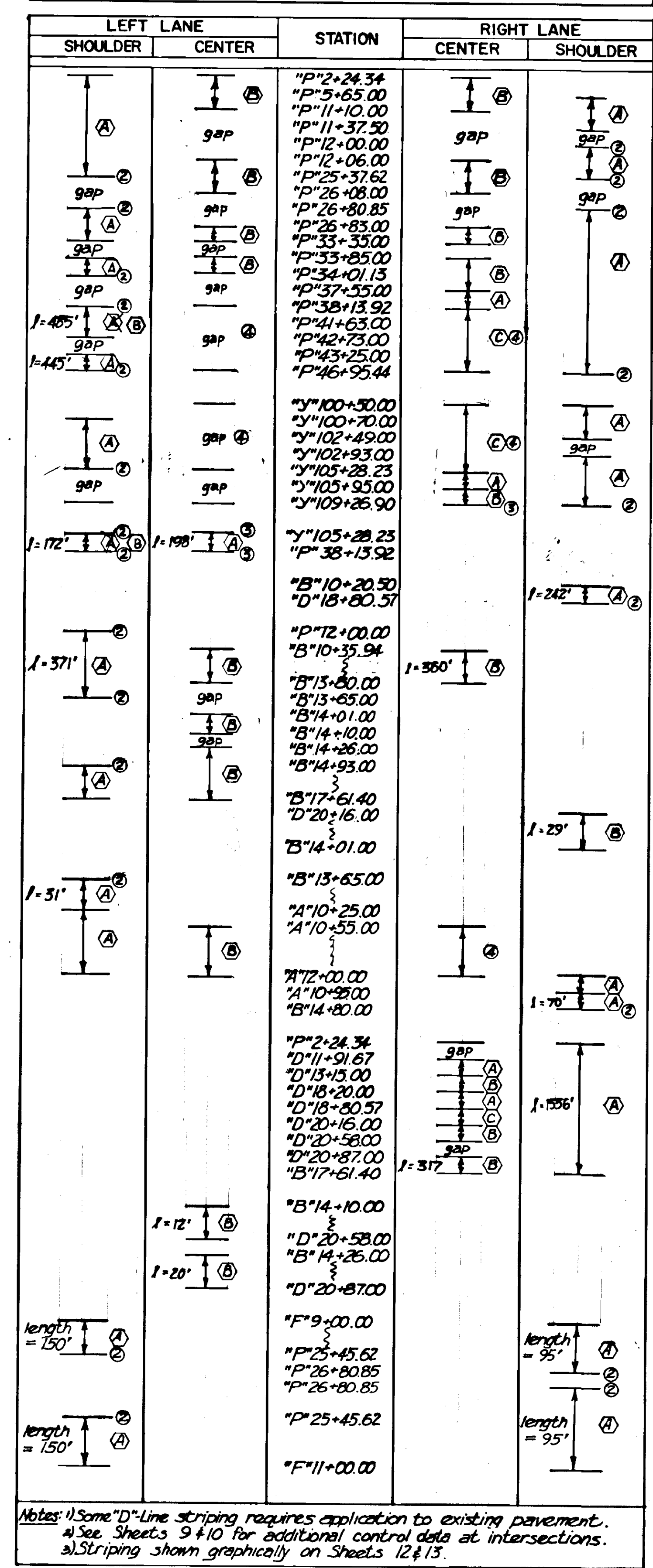
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0962(1)	1981	11	13

STRIPING, SIGNING & ILLUMINATION

SIGNING SCHEDULE

STATION	LEFT	RIGHT	FACE	LEGEND	CODE	SIZE	AREA (SF)
"P"2+25		X	SE	Airport	DI-2	42" x 126"	36.75
"P"3+50		X	SE	Old Dairy Rd	R2-1	30" x 36"	7.50
"P"6+88		X	E	SPEED LIMIT 40	W12-1	24" x 24"	4.00
"P"6+88		X	E	(Type I marker)	OM-1	18" x 18"	2.25
"P"8+50		X	E	EMERGENCY PARKING ONLY	R8-4	24" x 30"	5.00
"P"10+00		X	E	NO RIGHT TURN	R3-1	30" x 30"	6.25
"P"10+00		X	E	NO RIGHT TURN	R3-1	18" x 24"	3.00
"P"11+60	X		N	Airport	DI-2	42" x 126"	36.75
"P"11+60	X		N	Juneau	DI-2	42" x 126"	36.75
"D"18+60	X		SE	LEFT LANE MUST TURN LEFT	R3-7L	36" x 36"	9.00
"D"18+60	X		SE	LEFT LANE MUST TURN LEFT	R3-7L	36" x 36"	9.00
"D"18+95	X		NW	WRONG WAY	R5-9	24" x 36"	6.00
"D"18+95	X		N	WRONG WAY	R5-9	24" x 36"	6.00
"B"10+40	X		N	STOP	R1-1	30" x 30"	6.25
"B"12+81	X		NW	KEEP RIGHT	R4-7B	30" x 36"	7.50
"B"12+81	X		NW	(Type I marker)	OM-1	18" x 18"	2.25
"B"13+50	X		NW	STOP AHEAD	W3-1	36" x 36"	9.00
"B"13+50	X		NW	STOP AHEAD	W3-1	18" x 24"	3.00
"B"17+50	X		SE	SPEED LIMIT 40	R2-1	30" x 36"	7.50
"A"10+50	X		W	STOP	R1-1	30" x 30"	6.25
"P"13+00	X		E	SPEED LIMIT 40	R2-1	30" x 36"	7.50
"P"14+50	X		W	Juneau	DI-2	42" x 126"	36.75
"P"14+50	X		W	Old Dairy Rd	DI-2	42" x 126"	36.75
"P"15+50	X		W	STOP	W2-2L	36" x 36"	9.00
"P"21+00	X		E	(fire station symbol)	W11-8	30" x 30"	6.25
"P"21+00	X		E	FIRE STATION	W11-8	18" x 24"	3.00
"P"22+50	X		E	STOP	W2-1	36" x 36"	9.00
"P"25+00	X		E	Airport	DI-2	42" x 140"	40.83
"P"25+00	X		E	Commercial Area	DI-2	42" x 140"	40.83
"P"25+00	X		W	EMERGENCY PARKING ONLY	R8-4	24" x 30"	5.00
"P"25+00	X		W	SPEED LIMIT 40	R2-1	30" x 36"	7.50
"F"9+60	X		N	STOP	R1-1	30" x 30"	6.25
"P"10+50	X		S	STOP	R1-1	30" x 30"	6.25
"P"27+10	X		E	EMERGENCY PARKING ONLY	R8-4	24" x 30"	5.00
"P"31+00	X		NW	(fire station symbol)	W11-8	30" x 30"	6.25
"P"31+00	X		NW	FIRE STATION	W11-8	18" x 24"	3.00
"P"32+50	X		SE	SPEED LIMIT 40	R2-1	30" x 36"	7.50
"P"35+35	X		NW	KEEP RIGHT	R4-7B	30" x 36"	7.50
"P"36+50	X		SE	(merge symbol)	W4-1L	36" x 36"	9.00
"P"36+50	X		SE	MERGE	W4-1L	18" x 24"	3.00
"D"41+75	X		SE	NO LEFT TURN	R3-2	30" x 30"	6.25
"D"41+75	X		SE	NO LEFT TURN	R3-2	18" x 24"	3.00
"D"42+58	40'		NE	DO NOT ENTER	R5-1	30" x 30"	6.25
"D"42+58	40'		SW	STOP	R1-1	30" x 30"	6.25
"D"42+58	90'		SW	NO RIGHT TURN	R3-1	30" x 30"	6.25
"D"42+58	90'		SW	NO RIGHT TURN	R3-1	18" x 24"	3.00
"D"42+80	40'		NE	DO NOT ENTER	R5-1(L)	48" x 16"	5.33
"D"43+02	40'		NE	DO NOT ENTER	R5-1	30" x 30"	6.25
"D"43+02	40'		SW	STOP	R1-1	30" x 30"	6.25
"D"44+00	X		E	STOP AHEAD	W3-1	36" x 36"	9.00
"D"44+00	X		E	STOP AHEAD	W3-1	18" x 24"	3.00
"D"44+00	X		E	STOP AHEAD	W3-1	36" x 36"	9.00
"D"44+00	X		E	STOP AHEAD	W3-1	18" x 24"	3.00
"D"45+00	X		E	ONLY ONLY	R3-8L/R	30" x 36"	7.50
"D"45+00	X		E	ONLY ONLY	R3-8L/R	30" x 36"	7.50
"P"45+75	X		E	Airport Terminal	DI-2	40" x 140"	40.83
"P"45+75	X		E	Mendenhall Valley	DI-2	40" x 140"	40.83
"D"46+75	X		NE	STOP	R1-1	30" x 30"	6.25
"D"46+75	X		NE	STOP	R1-1	30" x 30"	6.25
"D"46+75	X		SW	DO NOT ENTER	R5-1	30" x 30"	6.25
"D"46+75	X		SW	DO NOT ENTER	R5-1	30" x 30"	6.25
"P"47+25	100'		NE	STOP	W1-7	24" x 48"	8.00
"P"47+25	100'		NW	NO LEFT TURN	R3-2	30" x 30"	6.25
"P"47+25	100'		NW	NO LEFT TURN	R3-2	18" x 24"	3.00
"P"46+95	175'		NE	NO RIGHT TURN	R3-1	30" x 30"	6.25
"P"46+95	175'		NE	NO RIGHT TURN	R3-1	18" x 24"	3.00
"Y"101+00	X		W	SPEED LIMIT 40	R2-1	30" x 36"	7.50
"Y"101+50	X		W	NO PARKING	R8-3	24" x 30"	5.00
"Y"101+50	X		W	EMERGENCY PARKING ONLY	R8-4	24" x 30"	5.00
"Y"102+00	X		W	Juneau City Center	DI-2	42" x 140"	40.83
"Y"102+00	X		W	Mendenhall Valley	DI-2	42" x 140"	40.83
"Y"102+79	X		S	ONE WAY	R6-1(R)	48" x 16"	5.33
"Y"103+00	X		W	LEFT LANE MUST TURN LEFT	R3-7L	36" x 36"	9.00
"Y"104+00	X		W	ONE WAY	W1-2R	36" x 36"	9.00
"Y"104+25	X		W	20 MPH	R3-5L	30" x 36"	7.50
"Y"104+25	X		W	20 MPH	W13-1	18" x 18"	2.25
"Y"105+96	X		W	(Type I marker)	W12-1	24" x 24"	4.00
"Y"105+96	X		W	(Type I marker)	OM-1	18" x 18"	2.25
"Y"107+50	X		SE	WRONG WAY	R5-9	24" x 36"	6.00
"Y"107+50	X		SE	WRONG WAY	R5-9	24" x 36"	6.00
"Y"108+00	X		NW	2 WAY TRAFFIC	W6-3	36" x 36"	9.00
"Y"108+00	X		NW	2 WAY TRAFFIC	W6-3	18" x 24"	3.00
"P"33+35	35'		SW	STOP	R1-1	30" x 30"	6.25
"Y"102+87	35'		S	STOP	R1-1	30" x 30"	6.25
"P"35+35	X		NW	(Type I marker)	OM-1	18" x 18"	2.25
"D"19+75	X		W	DO NOT ENTER	R5-1	30" x 30"	6.25

STRIPING SCHEDULE

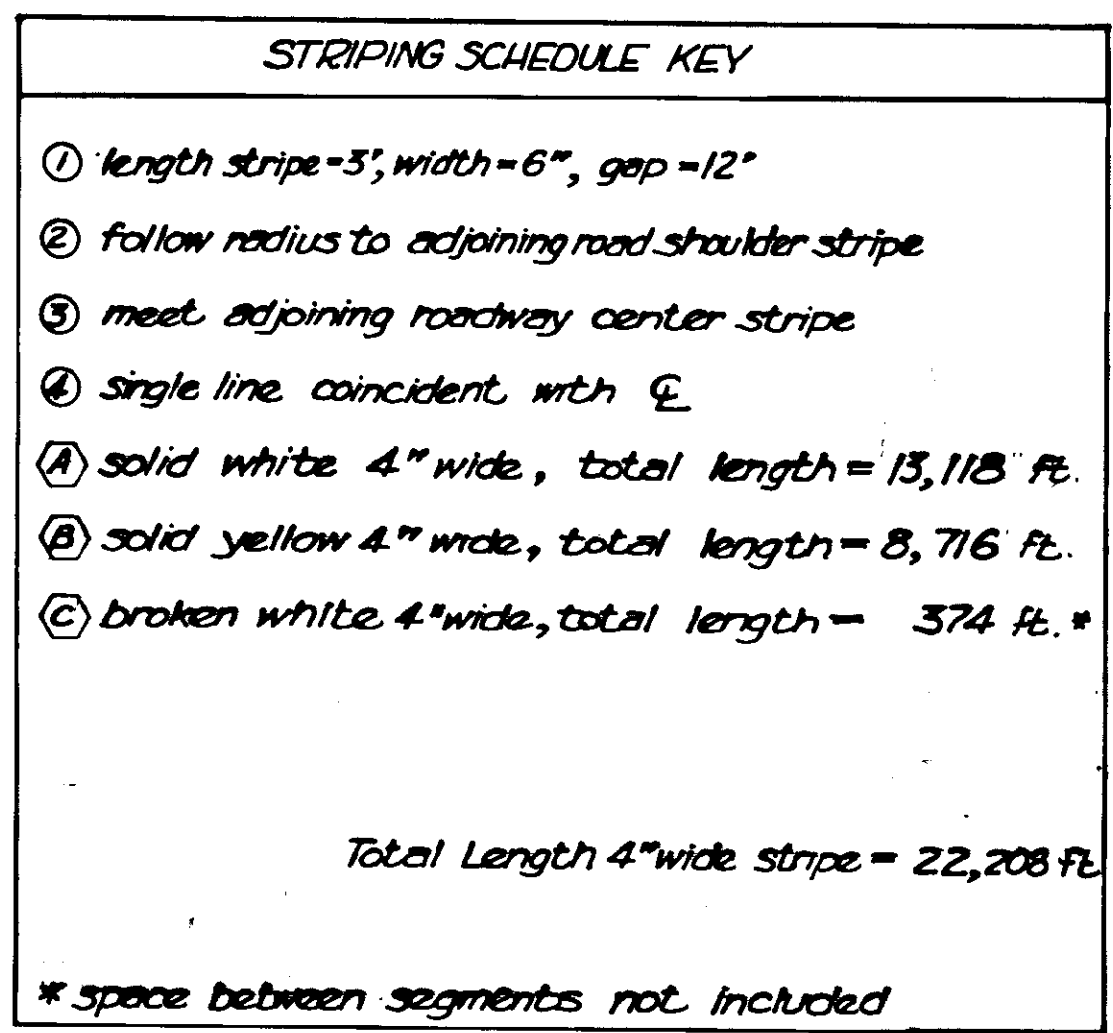


THERMOPLASTIC SUMMARY

COLOR	SIZE	LENGTH	AREA
Yellow	4" Stripe	8,716'	2,905 SF
Yellow	special marking	-	688
white	4" Stripe	13,492'	4,497
white	special markings	-	1,135
		Total Area =	9,225 SF

SPECIAL PAVEMENT MARKING SCHEDULE

STATION / SYMBOL	LEFT	RIGHT	LEGEND	COLOR	SIZE	APPROX AREA
"P"2+50		X	ONLY	white	9" x 24"	58
"D"19+50	X		ONLY	white	-	25
1			(island end tapers)	white	18" - 165'	320
2				yellow	18" - 96'	197
3				white	18" - 26'	59
4				yellow	18" - 60'	183
5				yellow	18" - 22'	51
6				yellow	18" - 41'	131
7				yellow	18" - 180'	126
8				white	18" - 48'	106
9				white	4" - 102'	87
"B"10+35	X		(stop bar)	white	2' x 15'	30
"A"10+55	X			white	2' x 12'	24
"P"34+15	X		lane arrow	white	6" x 24"	31
"P"34+15	X			"	"	31
"P"38+00	X			"	"	31
"P"38+50	X			"	"	31
"P"45+50	X		ONLY	white	-	25
"P"45+50	X		ONLY	"	-	25
"Y"103+00	X		ONLY	"	-	25
"Y"104+25	X		ONLY	"	-	25
"P"42+80	40'		(stop bar)	white	2' x 20'	40
"P"46+75	X			"	2' x 15'	30
"P"46+75	X			"	2' x 15'	30
"P"46+75	X			"	2' x 15'	30
"P"46+75	X			"	2' x 15'	30
"P"33+60	X			"	2' x 15'	30
"Y"102+79	X			"	2' x 10'	20
						Area (Yellow) 688 SF
						Area (White) 1,135 SF
						TOTAL AREA = 1,823 SF



ILLUMINATION SUMMARY *

Changed in Spec. by E.W.O.#1

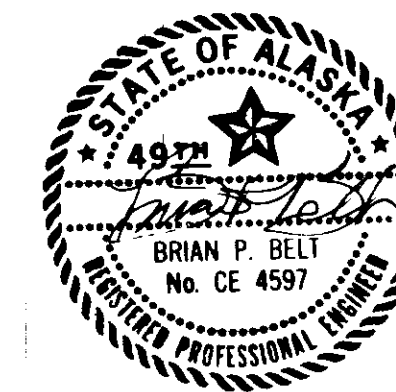
ITEM	QUANTITY
Electroliner conductor (estimated)	26 each
rigid metal conduit 80% PVC, 20% RMC	5,000 lin. ft.
junction boxes	4,666 lin. ft.
load centers	8 each
existing pole relocation	2 each
	1 each

* See Sheets 12 & 13 for schedules
Note: All paid for under Item 660(3) Highway Lighting System Complete (Revised)

RAISED PAVEMENT MARKER PLACEMENT

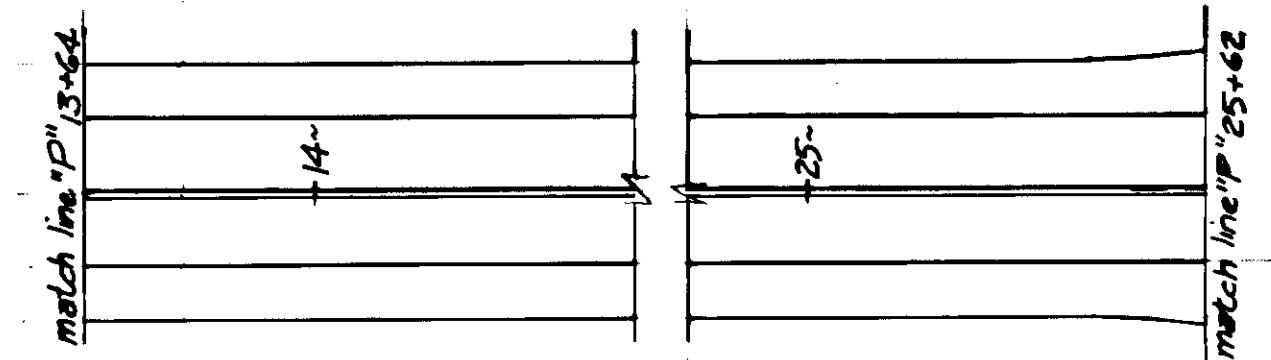
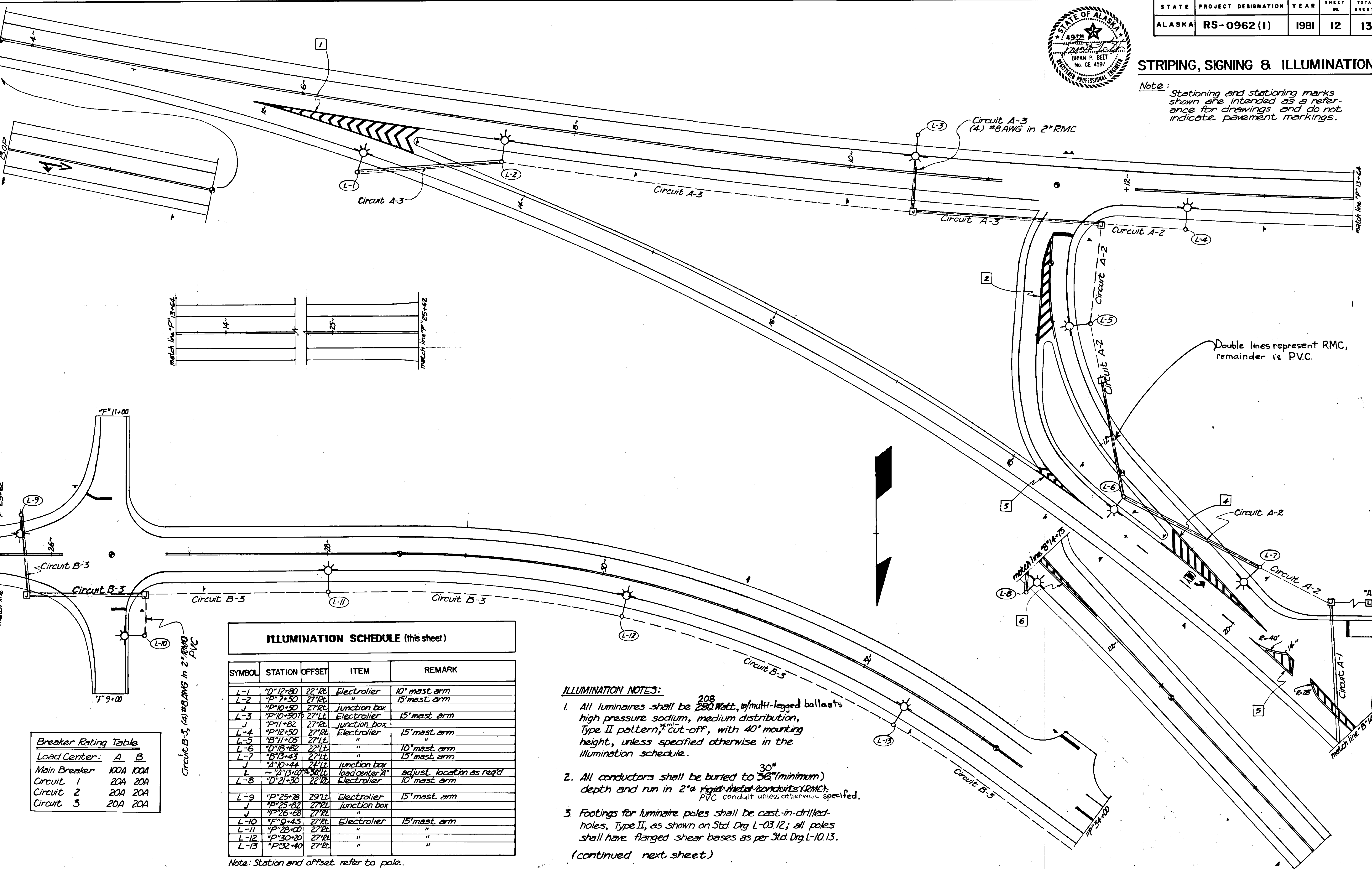
- Raised Pavement Markers (RPMs) shall be installed the entire length of this project; they shall be precast Portland cement concrete with parallel abrasive-resistive steel strips. Reflectors shall be two-way prismatic, with color consistent with coincident roadway striping. The Contractor's choice of product and installation procedure shall be submitted to the Engineer for approval.
- RPMs shall be installed along all centerlines with intervals of 80' on tangent sections and 40' on horizontal curves. General placement pattern shall coincide with thermoplastic striping installation; RPMs shall be placed at the leading edge of broken stripes. Diverging lanes shall have 4' shoulder RPMs with same stationing and interval as their respective center markers.
- All island tapers shall be adequately marked and shall have one-way markers placed in areas of conflict; all wrong-way situations shall have red reflectors installed backing the lane's appropriate colored marker.
- RPMs shall be installed in accordance with the manufacturer's instructions and these specifications. Allowed protrusion above roadway pavement surface is 1/4".
- Raised Pavement Marker quantity is as follows:

Yellow/White	72
Yellow	12
White	23
Yellow/Red	15
White/Red	61
Total	183
- The Contractor shall place markers as directed by the Engineer in areas not specifically described above such as intersections and island end tapers.



STRIPING, SIGNING & ILLUMINATION

Note: Stationing and stationing marks shown are intended as a reference for drawings and do not indicate pavement markings.



ILLUMINATION SCHEDULE (this sheet)

SYMBOL	STATION	OFFSET	ITEM	REMARK
L-1	"D" 12+80	22' RL	Electrolier	10' mast arm
L-2	"P" 7+50	27' RL	"	15' mast arm
J	"P" 10+50	27' RL	junction box	
L-3	"P" 10+50	27' LT	Electrolier	15' mast arm
J	"P" 11+82	27' RL	junction box	
L-4	"P" 12+50	27' RL	Electrolier	15' mast arm
L-5	"B" 11+05	27' LT	"	"
L-6	"D" 18+82	22' LT	"	10' mast arm
L-7	"B" 13+43	27' LT	"	15' mast arm
J	"A" 10+44	24' LT	junction box	
L	"A" 13+00	30' LT	load center	adjust location as req'd
L-8	"D" 21+30	22' RL	Electrolier	10' mast arm
L-9	"P" 25+78	29' LT	Electrolier	15' mast arm
J	"P" 25+82	27' RL	junction box	
J	"P" 26+68	27' RL	"	
L-10	"F" 0+43	27' RL	Electrolier	15' mast arm
L-11	"P" 28+00	27' RL	"	"
L-12	"P" 30+20	27' RL	"	"
L-13	"P" 32+40	27' RL	"	"

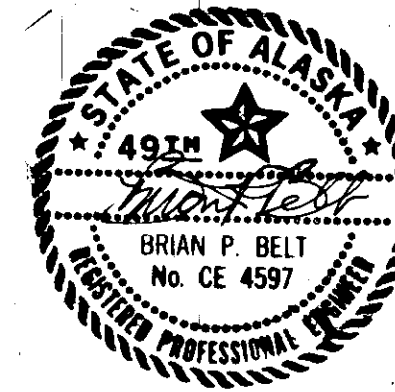
Note: Station and offset refer to pole.

ILLUMINATION NOTES:

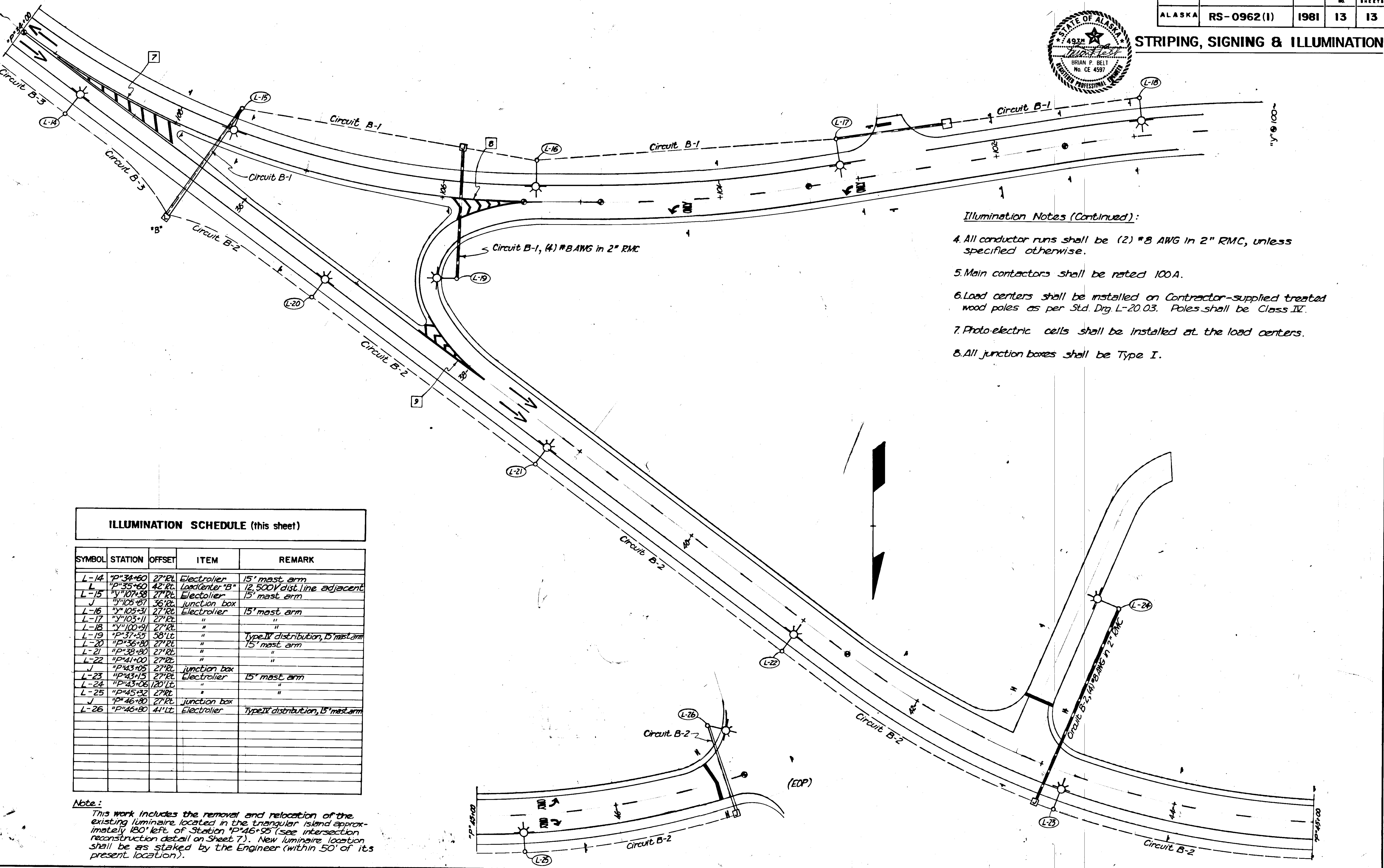
- All luminaires shall be 208 Watt, w/multi-legged ballasts high pressure sodium, medium distribution, Type II pattern, cut-off, with 40' mounting height, unless specified otherwise in the illumination schedule.
 - All conductors shall be buried to 30" (minimum) depth and run in 2" rigid metal conduits (RMC). PVC conduit unless otherwise specified.
 - Footings for luminaire poles shall be cast-in-drilled-holes, Type II, as shown on Std. Drg. L-03.12; all poles shall have flanged shear bases as per Std. Drg. L-10.13.
- (continued next sheet)

Breaker Rating Table

Load Center:	A	B
Main Breaker	100A	100A
Circuit 1	20A	20A
Circuit 2	20A	20A
Circuit 3	20A	20A



STRIPING, SIGNING & ILLUMINATION



Illumination Notes (Continued):

4. All conductor runs shall be (2) #8 AWG in 2" RMC, unless specified otherwise.
5. Main contactors shall be rated 100 A.
6. Load centers shall be installed on Contractor-supplied treated wood poles as per Std. Drg. L-20.03. Poles shall be Class IV.
7. Photo-electric cells shall be installed at the load centers.
8. All junction boxes shall be Type I.

ILLUMINATION SCHEDULE (this sheet)

SYMBOL	STATION	OFFSET	ITEM	REMARK
L-14	"P" 34+60	27' RL	Electrolier	15' mast arm
L	"P" 35+60	42' RL	Load center "B"	12,500V dist. line adjacent
L-15	"Y" 07+58	27' RL	Electrolier	15' mast arm
J	"Y" 105+31	36' RL	Junction box	
L-16	"Y" 105+31	27' RL	Electrolier	15' mast arm
L-17	"Y" 103+11	27' RL	"	"
L-18	"Y" 100+91	27' RL	"	"
L-19	"P" 37+55	58' Lt	"	Type IV distribution, 15' mast arm
L-20	"P" 36+80	27' RL	"	15' mast arm
L-21	"P" 38+80	27' RL	"	"
L-22	"P" 41+00	27' RL	"	"
J	"P" 43+05	27' RL	Junction box	
L-23	"P" 43+15	27' RL	Electrolier	15' mast arm
L-24	"P" 43+06	120' Lt	"	"
L-25	"P" 45+32	27' RL	"	"
J	"P" 46+80	27' RL	Junction box	
L-26	"P" 46+80	41' Lt	Electrolier	Type IV distribution, 15' mast arm

Note:
 This work includes the removal and relocation of the existing luminaire located in the triangular island approximately 180' left of Station "P" 46+95 (see intersection reconstruction detail on Sheet 7). New luminaire location shall be as staked by the Engineer (within 50' of its present location).