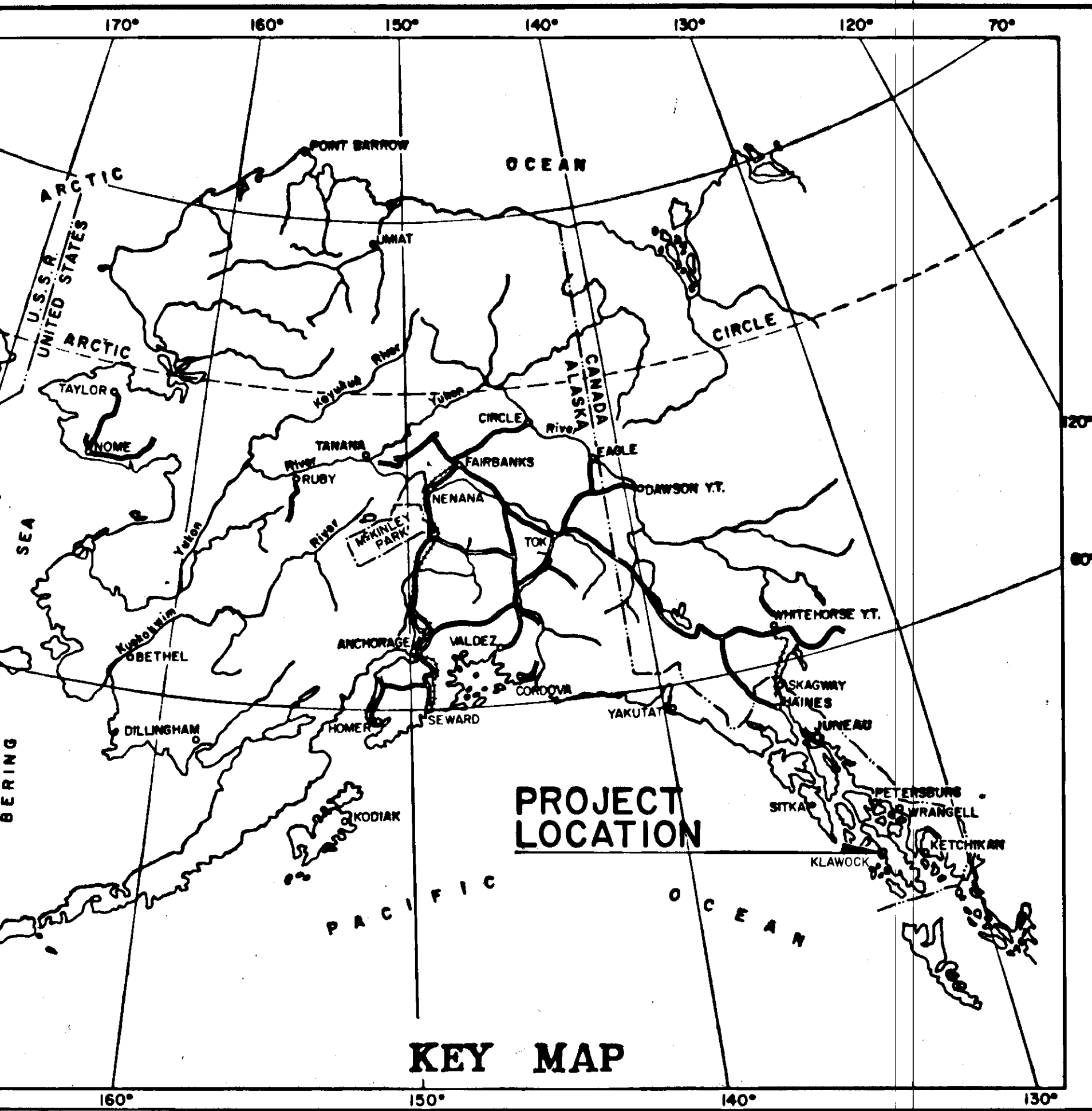




STATE OF ALASKA DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT

KLAWOCK RIVER BRIDGE REPLACEMENT

BR-0924 (10), 69237
AND

KLAWOCK RIVER BRIDGE APPROACHES

RS-0924 (11), 69710

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0924 (10) / RS-0924 (11)	1	24

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3	TYPICAL SECTIONS
4-6	PLAN AND PROFILE
7	BOAT RAMP DETAILS
8	MISCELLANEOUS DETAILS
9	SIDEWALK DETAILS
10-11	TRAFFIC CONTROL PLAN
12	WATER AND SEWER RELOCATION DETAILS
13	SIGNING, STRIPING AND TRAFFIC COUNTER DETAILS
B1	BRIDGE GENERAL LAYOUT
B2	BRIDGE SITE PLAN
B3	ABUTMENTS
B4	PIERS 2, 3, & 4
B5	TYPICAL SECTION
B6	MISCELLANEOUS DETAILS
B7	GIRDERS
B8-9	BRIDGE RAILING
B10-B11	LOG OF TEST HOLES
B12	PILE ATTACHMENT REVISION

The following Standard Drawings apply to this project.
A-1, C-01.03, C-02.01, C-03.01, C-04.00, D-01.01, D-04.10, D-23.00, D-26.01, G-04.03S, G-09.01S, G-14.04S, G-18.00S, G-29.01S, G-45.00, I-81.00, M-13.01, M-16.01, S-00.00, S-05.00, S-20.00, S-30.01, T-20.00, T-21.01, T-33.01

"AS-BUILT" PLANS

CONTRACTOR: SOUTH COAST, INC.
PROJECT ENGINEER: BRIAN BELT
NOTICE TO PROCEED: 1-22-90
COMPLETION DATE: 11-10-90

DESIGN DESIGNATION

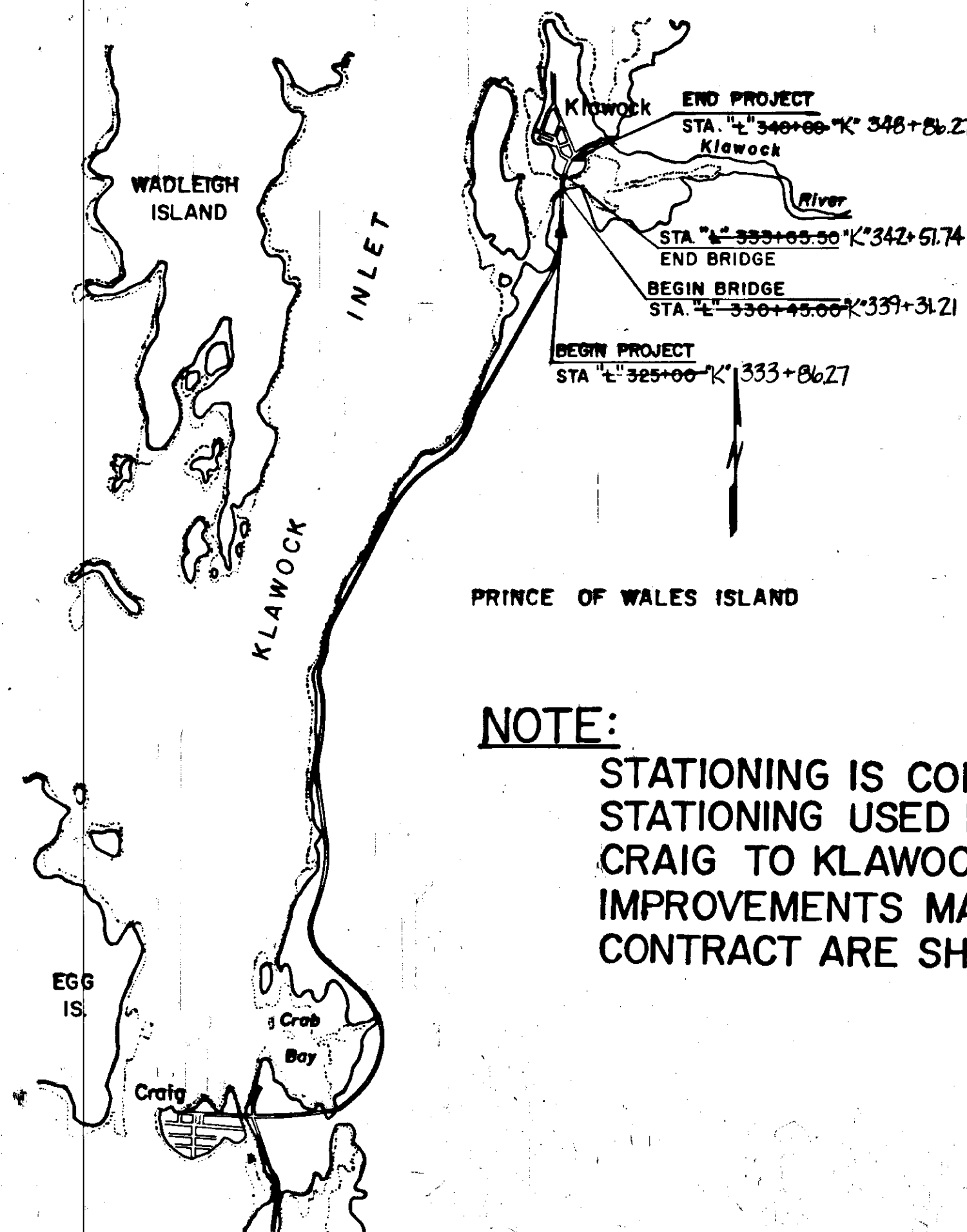
A.D.T. (1989)	=	1,514
A.D.T. (2009)	=	2,101
D.H.V. (12%)	=	252
% T	=	7.0
T.I.	=	7.5
V (325+00 to 332+00)	=	40 MPH
V (332+00 to 340+00)	=	30 MPH

PROJECT SUMMARY

	BR-0924 (10)
LENGTH OF PROJECT	= 320.5' (0.061 mile)
LENGTH OF RAVING	= 320.5'
LENGTH OF GRADING	= 320.5'
LENGTH OF BRIDGE	= 320.5' (0.061 mi)
WIDTH OF PAVEMENT	= 320.5'
WIDTH OF SUBGRADE	= 320.5'
WIDTH OF BRIDGE	= 46.5'

RS-0924 (11)

1,179.5' (0.223 mile)
1,179.5' (0.223 mile)
1,179.5' (0.223 mile)
1,179.5' (0.223 mile)
40.0' Typ
Varies, 49.25' To 58' Typ



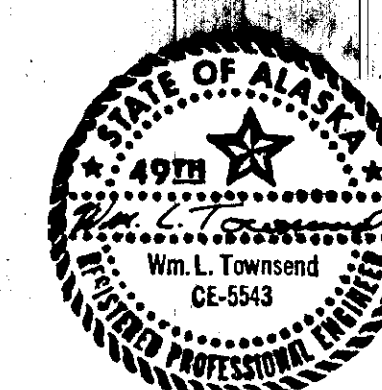
NOTE:

STATIONING IS CONVERTED TO "K"-LINE
STATIONING USED IN PROJ. RS-0924(12)
CRAIG TO KLAWOCK OVERLAY (1992).
IMPROVEMENTS MADE UNDER THAT
CONTRACT ARE SHOWN ON THESE PLANS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
SOUTHEASTERN REGION DESIGN SECTION

APPROVED
Meinell Date 9-18-89
S.E. Region Design Chief

APPROVED
Wm. L. Townsend Date 9-18-89
Director, S.E. Region Design & Construction



Estimate of Quantities				
Item No.	Item	Unit	Roadway	Bridge
				Total
120 (1)	DBE Adjustments	C.S.	All Req'd.	All Req'd.
202 (1)	Removal of Structures and Obstructions	L.S.		All Req'd.
202 (2)	Removal of Pavement	S.Y.	4710.51724	4710.51724
202 (4)	Removal of Culvert Pipe	L.F.	-56-100	-56-100
203 (11)	Bore Test Holes (Change Order No. 7)	L.S.	All Req'd.	All Req'd.
203 (3)	Unclassified Excavation	C.Y.	1640.265289	1640.265289
203 (6)	Borrow, Type A	C.Y.	-3585.23201	-3585.23201
203 (12)	Grade Blasting (Change Order No. 9)	L.S.	All Req'd.	All Req'd.
301 (1)	Crushed Aggregate Base Course	Ton	2475.30735	2475.30735
304 (1)	Subbase, Grading A	Ton	4470.436174	4470.436174
401 (10)	Rejected Asphalt Refund (Change Order No. 11)	L.S.	All Req'd.	All Req'd.
401 (1)	Asphalt Concrete, Type II	Ton	833.75184	166.14982
401 (2)	AC-5 Asphalt Cement	Ton	50-44.36	10.887
402 (1)	CSS-1 Asphalt for Tack Coat	Ton	1.24181	-0.56082
500 (5)	Timber Stairs (Change Order No. 7)	L.S.	All Req'd.	All Req'd.
501 (7)	Class A Concrete	L.S.		All Req'd.
501 (7)	Precast Abutment Caps	L.S.		All Req'd.
501 (8)	Precast Pier Caps	L.S.		All Req'd.
502 (1)	Prestressed Concrete Structure Members	Ea.	36	36
503 (1)	Reinforcing Steel	L.S.	All Req'd.	All Req'd.
505 (5)	Structural Steel Pipe Piles, Furnished	L.F.	-574.51782	-574.51782
505 (6)	Structural Steel Pipe Piles, Driven	Ea.	20	20
507 (1)	Metal Bridge Railing	L.F.	641.15	641.15
509 (1)	Concrete Protective Sealer	L.S.		All Req'd.
505 (12)	Pile Redesign Credit (Change Order No. 3)	L.S.		All Req'd.
508 (1)	Waterproof Membrane (Change Order No. 8)	L.S.		All Req'd.
603 (9-18)	18 Inch Corrugated Aluminum Pipe	L.F.	215.362	215.362
603 (9-24)	24 Inch Corrugated Aluminum Pipe	L.F.	-68-70	-68-70
604 (5A)	Inlet, Type A	Ea.	1	1
604 (5B)	Inlet, Field	Ea.	1	1
606 (8)	Bridge Approach Guardrail	L.F.	337.53405	337.53405
606 (5)	Removal and Disposal of Guardrail	L.F.	-222-215	-222-215
606 (6)	End Anchorage	Ea.	4	4
608 (3)	Asphalt Sidewalk	S.Y.	133.5	133.5
609 (2)	Curb and Gutter, Type I	L.F.	-230-225.3	-230-225.3
611 (1)	Riprap, Class II	C.Y.	-440-178.53	-440-178.53
614 (1)	Survey Monuments	Ea.	2	3
614 (2)	Monument Cases	Ea.	2	2
615 (1)	Standard Signs	S.F.	-49.41-49.43	-49.41-49.43
615 (7)	Salvage Signs	Ea.	-8-4	-8-4
615 (8)	Fishing Regulation Signs (Change Order No. 6)	L.S.		All Req'd.
626 (1)	3 Inch Ductile Iron Sewer Conduit	L.F.	-57-44	-57-44
626 (2)	3 Inch Steel Insulated Sewer Conduit	L.F.		330.5
626 (3)	Temporary Sewer Service	L.S.	All Req'd.	All Req'd.
627 (1)	6 Inch Ductile Iron Water Conduit	L.F.	-206-223.25	-206-223.25
627 (2)	6 Inch Steel Insulated Water Conduit	L.F.		330.5
627 (9)	Install 6 Inch Gate Valve	Ea.	1	1
627 (10)	Adjustment of Valve Box	Ea.	+0	+0
627 (11)	Temporary Water Service	L.S.	All Req'd.	All Req'd.
634 (1)	Boat Launch Stones	C.Y.	-138-212.3	-138-212.3
635 (2)	Insulation Board	S.F.	192	192
640 (1)	Mobilization and Demobilization	L.S.	All Req'd.	All Req'd.
641 (1)	Temporary Erosion and Pollution Control	C.S.	All Req'd.	All Req'd.
642 (1)	Construction Surveying	L.S.	All Req'd.	All Req'd.
643 (25)	Existing Bridge Rail Modification (Change Order No. 5)	L.S.	All Req'd.	All Req'd.
643 (2)	Traffic Maintenance	L.S.	All Req'd.	All Req'd.
643 (3)	Permanent Construction Signing	Ea/day	-1375-1292	-1375-1292
643 (4)	Construction Sign	Ea/day	-1500-842	-1500-842
643 (5)	Type II Barricade	Ea/day	-300-1545	-300-1545
643 (6)	Type III Barricade	Ea/day	-200-489	-200-489
643 (7)	Traffic Cone	Ea/day	-3000-4798	-3000-4798
643 (2)	Load Center, Type 2	Ea.	1	1
643 (10)	Special Construction Sign	S.F.	52.5	52.5
643 (11)	Portable Concrete Barrier	Each	-52-181	-52-181
643 (13)	Temporary Pavement Marking	Sta.	-15-24.3	-15-24.3
643 (15)	Flagging	Hour	-1500-2568	-1500-2568
643 (24)	Temporary Traffic Signal System	Day	-200-80	-200-80
644 (1)	Field Office	L.S.	All Req'd.	All Req'd.
644 (2)	Field Laboratory	L.S.	All Req'd.	All Req'd.
645 (1)	Training Program	Man-Hr.	500	500
660 (6)	Traffic Count System, Complete	L.S.	All Req'd.	All Req'd.
670 (1)	Painted Traffic Markings	L.S.	All Req'd.	All Req'd.

Out of sequence.

STANDARD SIGN SUMMARY														
STATION	OFFSET		CODE NO.	LEGEND	SIGN PANEL THICKNESS				NO. OF POSTS	TYPE	SIZE	LENGTH	EMBEDMENT	FACING TRAFFIC
	LT.	RT.			CLASS	FRAMED	UNFRAMED	AREA S.F.						
"L" 325+48	32'		R2-1	Speed Limit 50	T		0.080	7.5	1	PST	2"x2"	14.5'	3.5'	S.B.
"L" 325+48		32'	R2-1	Speed Limit 25	T			7.5	1			14.5'		N.B.
"L" 322+50		32'	R2-5C	Speed Zone Ahead	T			7.5	1			14.5'		N.B.
"L" 326+70		37'	R1-1	STOP	T			6.25	1			11.0'		N.B.
"L" 327+50	32'		R7-101	No Parking Any Time	T			1.5	1			13.0'		N.B.
"L" 327+50		32'	R7-101	No Parking Any Time	T			1.5	1			13.0'		N.B.
"L" 330+45		26'	I-3	Klawock River	T			7.33	2			12.0'		N.B.
"L" 333+65	26'		I-3	Klawock River	T			7.33	2			12.0'		N.B.
"L" 336+00	32'		R7-101	No Parking Any Time	T			1.5	1			13.0'		N.B.
"L" 336+00		32'	R7-101	No Parking Any Time	T			1.5	1			13.0'		N.B.
* See Sheet 13 for "Fishing Regulation Signs" extra work														
* Convert to "K-Line Stationing" by adding 886.27 to "L" Station									Total = 49.41					

Lengths are approximate and for estimating purposes only.
From Alaska Sign Design Specification (ASDS).
Letter size shall be 6-4.5, sign dimension is 24"x44"

PIPE SUMMARY					
PIPE	STATION	REMOVE	INSTALL	INLET ELEV.*	OUTLET ELEV.*
P-0	"K" 335+33.47	18"x16"	18"x16"	19.7	19.7
P-1	326+47.335+33	18"x16"	18"x16"	19.7	19.7
P-2	329+33.335+17	18"x16"	18"x16"	19.7	19.7
P-3	330+36.339+17	18"x16"	18"x16"	19.7	19.7
P-4	336+00.334+80	24"x68"	24"x68"	15.3	15.3
P-5	338+50.347+16	18"x16"	18"x16"	14.8	14.8
P-6	338+85.347+17	18"x16"	18"x16"	14.8	14.8
P-7	342+55.47	18"x16"	18"x16"	14.6	14.6
P-8	344+49.28.47	18"x16"	18"x16"	14.6	14.6

*Elevations are at invert of pipe.

INLET SUMMARY					
STRUCT.	STATION	REMOVE	INSTALL	PIPE NO	PIPE SIZE
S-1	330+36.19.5' Lt.		X	P-3	18"x16"
S-2	338+85.30' Lt.		X	P-6	18"x16"
(S-1)	"K" 335+10.15, 11' Lt.		X	P-3	18"x16"
(S-2)	347+11.27, 30' Lt.		X	P-6	18"x16"
(S-3)	342+55.27, 19' Lt.		X	P-7	18"x16"

EXISTING SIGN SUMMARY					
STATION	OFFSET		CODE NO.	LEGEND	REMARKS
	LT.	RT.			
"L" 325+48	32'			50 MPH	Salvage
"L" 325+48		27'		25 MPH	
"L" 326+66		36'		STOP	
"L" 329+12		26'		loaded logging trucks prohibited	
"L" 330+47		17'		Klawock River	
"L" 333+56	20'			Klawock River	
"L" 333+56	20'			logging trucks use right lane	
"L" 336+82	27'			No Parking	

Basis of Estimate	
Item No.	Estimating Factor
301 (1)	1.96 Tons per cubic yard
401 (1)	116 Lbs. per square yard per inch depth
401 (2)	6 % of Item 401 (1)
402 (1)	Application rate 0.10 gal. per sq. yd. -253 gal. per ton
403 (1)	" " " " " " " " -256 " " "
304 (1)	1.87 Tons per cubic yard
203 (6)	1.87 tons per cubic yard

MONUMENT SUMMARY			
STATION	OFFSET		REMARKS
	LT.	RT.	
326+52.85	18.0'		Install Mon. & Case
333+50	23.0'		Install vertical control monument
335+45.59	18.0'		Install Mon. & Case
"K" 328+90.11		15.80'	K-28 Mon. set under RS-0924(12) Craig to Klawock
"K" 335+39.12	17.83'		HH-1 Mon. set under RS-0924(11) paved over
"K" 339+36.70	17.30'		Reset Meander Corner in bridge deck
"K" 344+30.31	16.41'		HH-2 Mon. set under RS-0924(11)
"K" 346+13.29	17.68'		K-29 Mon. set under RS-0924(12) Craig to Klawock

VALVE SUMMARY		
STATION	OFFSET	REMARKS
338+79	22' Rt.	Adjust
334+25	175' Rt.	Install
"K" 347+24	Rt.	No work
343+16	19.3' Rt.	Install 6" gate valve

GUARDRAIL SUMMARY				
STATION	TO STATION	OFFSET	LENGTH	REMARKS
329+75	330+55	X	80'	Remove & dispose
329+95	330+55	X	60'	" " "
333+56	333+78	X	22'	" " "
333+56	334+17	X	60'	" " "
328+99.53	330+37.03	X	137.5'	Install new
329+80.74	330+49.49	X	68.75'	" " "
333+59.53	334+34.53	X	75.0'	" " "
333+71.99	334+28.24	X	56.25'	" " "
"K" 331+85.88	337+24.38	X	138.50'	New Installation
338+66.82	339+36.57	X	68.75'	" " "
342+44.91	343+20.91	X	76.00'	" " "
342+56.99	343+14.24	X	57.25'	" " "

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KLAWOCK

ALASKA

ESTIMATE OF QUANTITIES

DESIGNED KLM

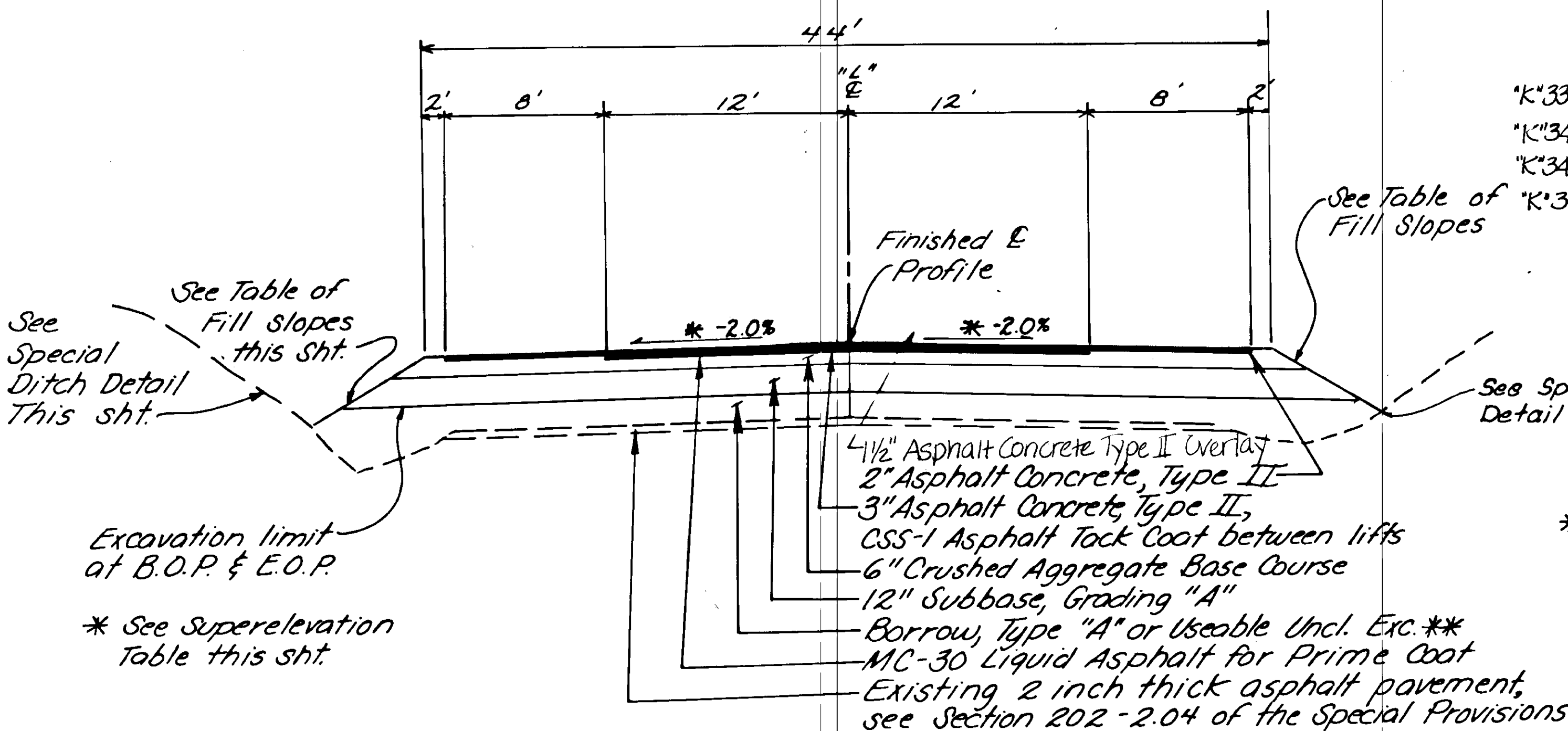
CHECKED DDS

DRAWN C

DATE 8-89

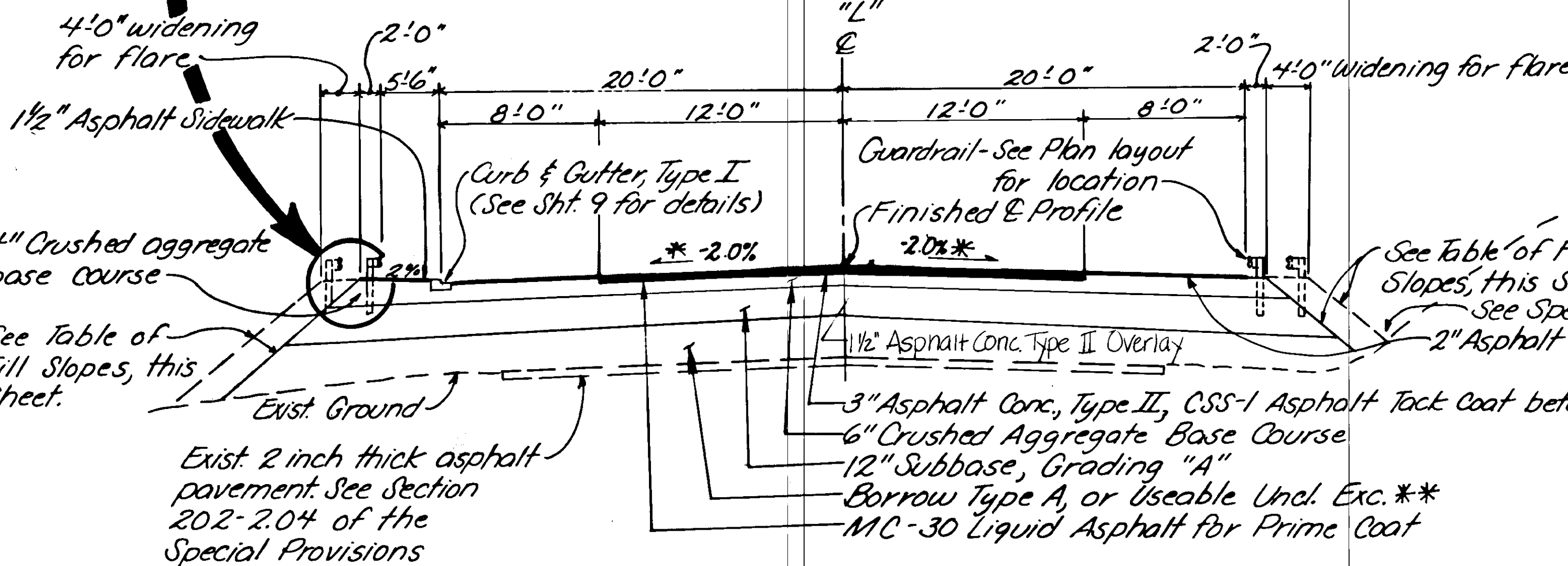
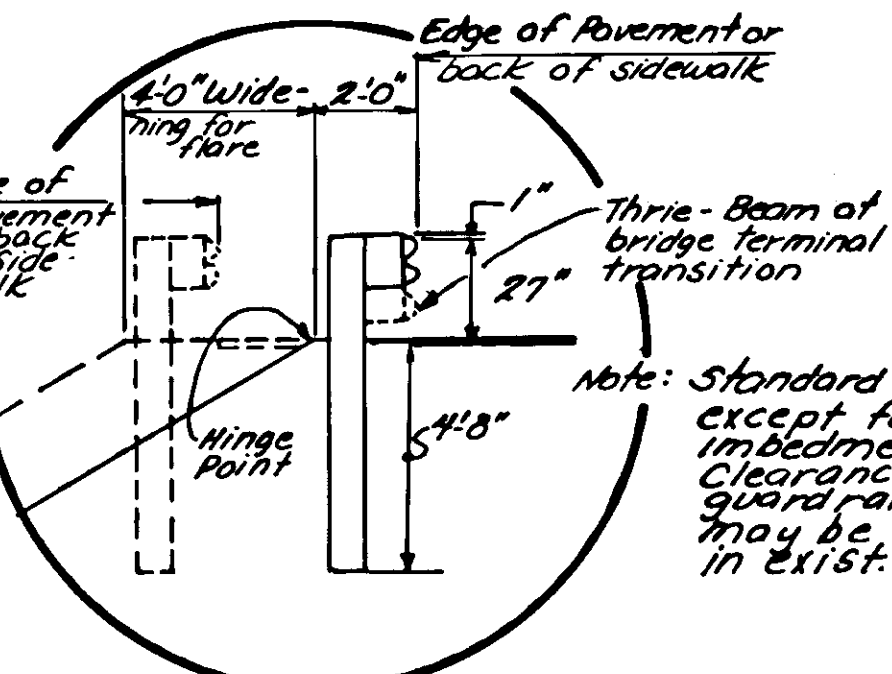
PROJECT NUMBER BR-0924(10)/RS-0924(11)

SHEET 2 OF 24



TYPICAL ROADWAY SECTION

Sta. "L" 325+00 to Sta. "L" 328+99.53
 Sta. "L" 334+45 to Sta. "L" 340+00
 "K" 343+31.27 "K" 348+86.27



TYPICAL ROADWAY SECTION

*K' 337+85.80 Sta. "L" 328+99.53 to Sta. "L" 330+45 "K" 339+31.21
 *K' 344+31.72 Sta. "L" 333+65.5 to Sta. "L" 334+45 "K" 343+31.27

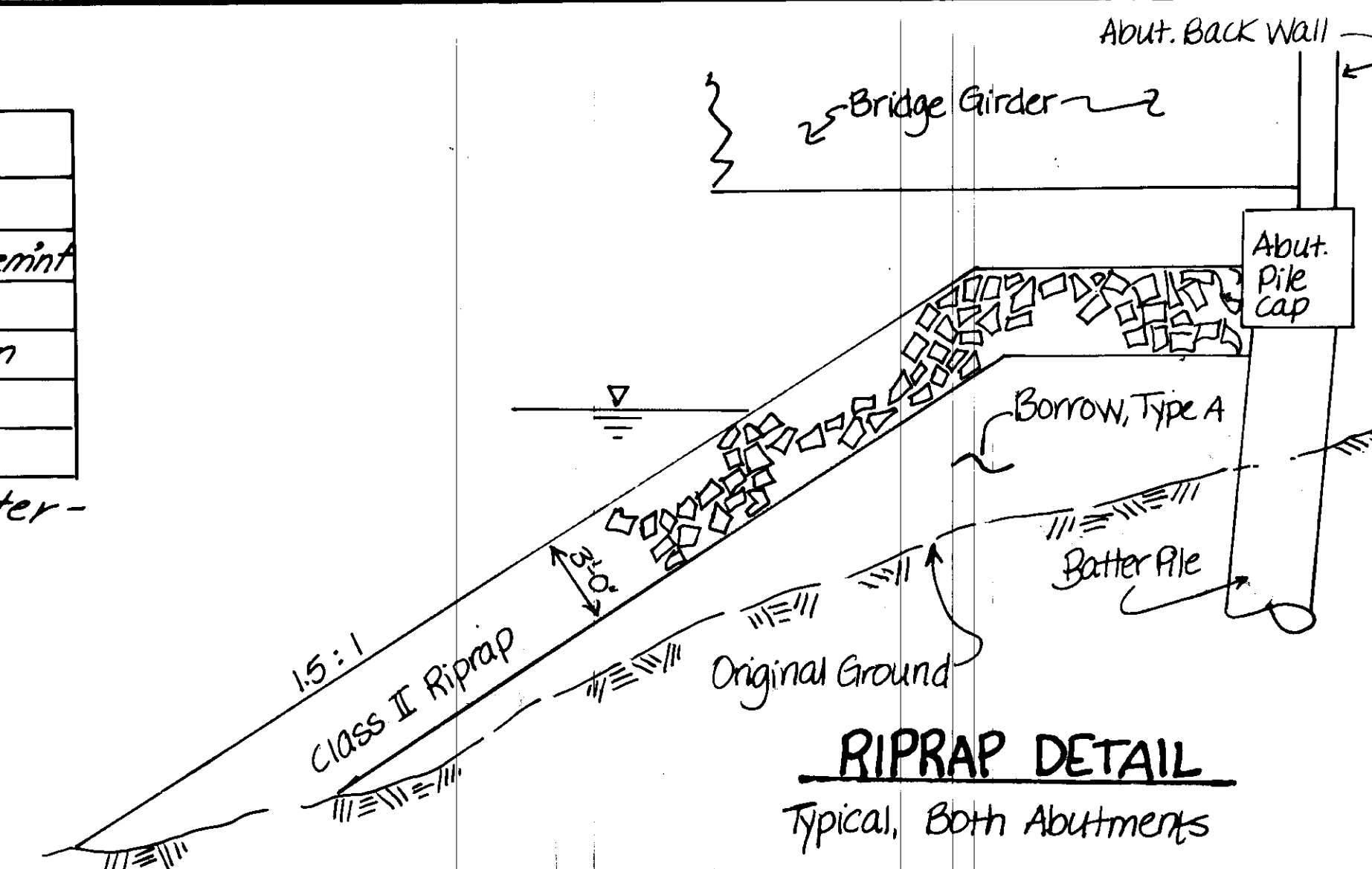
SUPERELEVATION TABLE				
STATION	SLOPE		REMARKS	
	LT.	RT.		
*K' 333+86.27 "L" 325+00	-2.0%	-2.0%	B.O.P. match exist. pavement	
*K' 343+58.50 "L" 334+56.59	-2.0%	-2.0%	Begin Transition	
*K' 344+68.39 "L" 335+96.59	+3.0%	-3.0%	Begin full superelevation	
*K' 348+86.27 "L" 340+00	+3.0%	-3.0%	E.O.P. match exist. pave.	

NOTE: Superelevation shall rotate about center-line. Transition length equals 110 feet.

** Useable Unclassified Excavation must meet the specifications for Selected Material, Type B and be placed 30" below the finished grade.

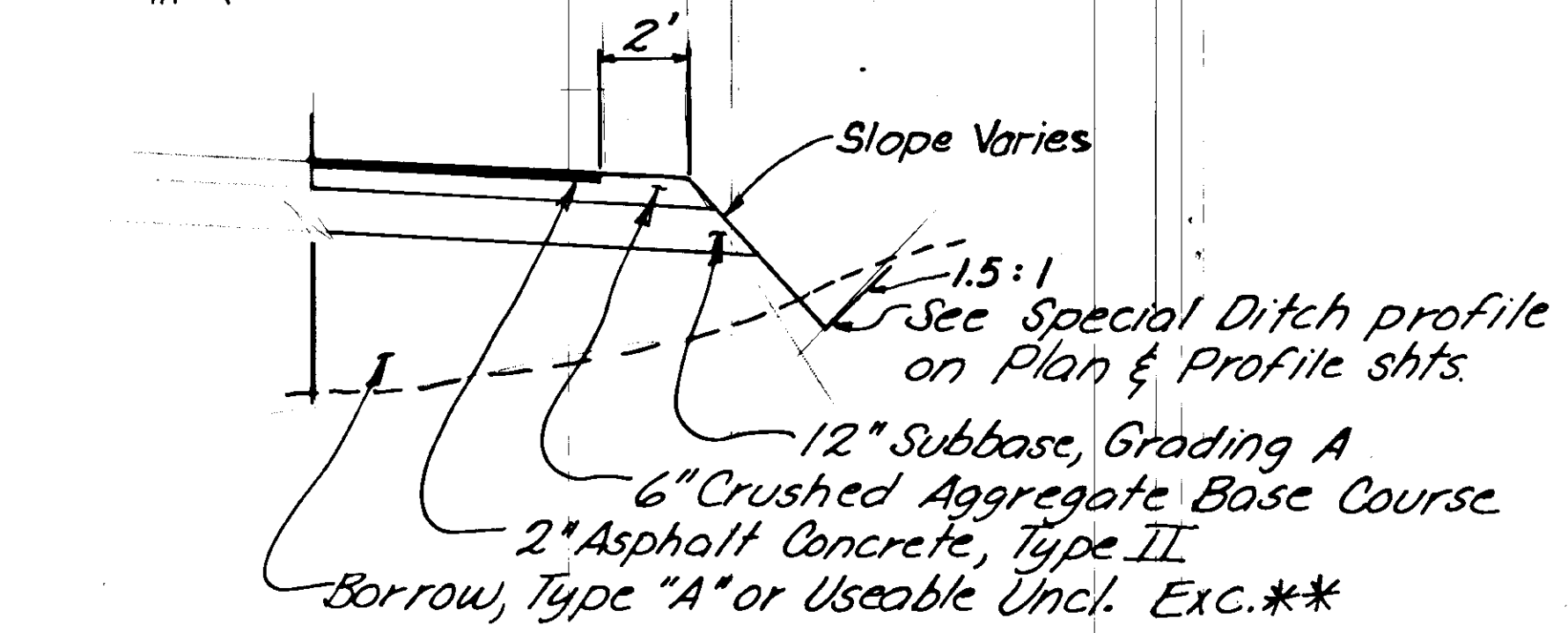
TABLE OF FILL SLOPES

HEIGHT	SLOPE
0' to 5'	4:1
5' to 10'	3:1
10' to 15'	2:1
15' +	1.5:1



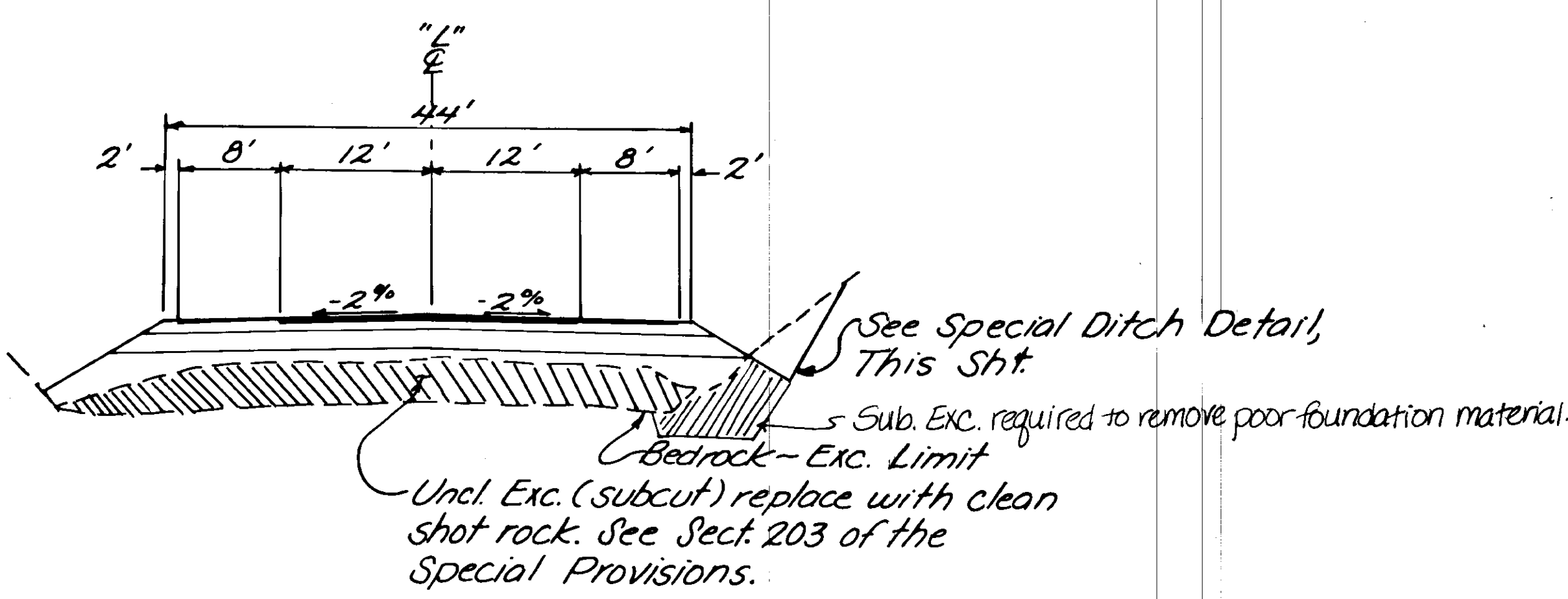
RIPRAP DETAIL

Typical, Both Abutments



SPECIAL DITCH DETAIL

*K' 334+86.27 "L" 326+00, 27' RT to "L" 326+14, 32' RT *K' 335+00.27
 *K' 335+66.27 "L" 326+00, 32' RT to "L" 329+59, 38' RT *K' 338+36.27
 *K' 342+71.27 "L" 333+85, 48' RT to "L" 336+00, 38' RT *K' 344+86.27
 *K' 344+86.27 "L" 336+00, 32' LT to "L" 338+35, 32' LT (Section Reversed)
 "K" 347+21.77



SPECIAL SUBCUT SECTION

Sta. "L" 327+50 to Sta. "L" 328+75
 "K" 336+36.27 "K" 337+61.27

STATIONING CONVERSION:
 The stationing for this project has been converted from "L" line to "K" line on these "As-Built" so that stationing is consistent with the road stationing for the Craig to Klawock Highway.

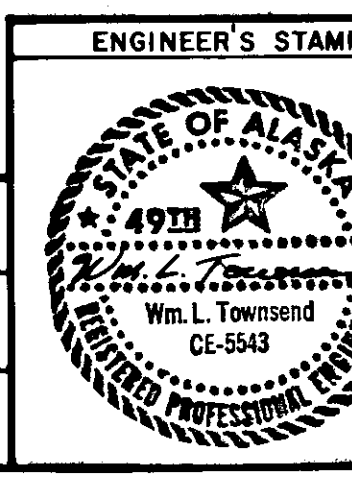
BY	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

Klawock ALASKA
 TYPICAL SECTIONS

APPROVED BY: _____
 DESIGN GROUP CHIEF
 DATE: _____
 RECOMMENDED BY: _____
 DESIGN ENGINEER, GROUP "A"
 DATE: _____
 PREPARED BY: BR-0924(10)/RS-0924(11)
 PROJECT MANAGER
 LEAD DESIGNER

DESIGNED BY: KLM
 DRAWN BY: *Ch*
 CHECKED BY: DDS
 SCALE: NONE
 DATE: 8/89
 SHEET 3 OF 24

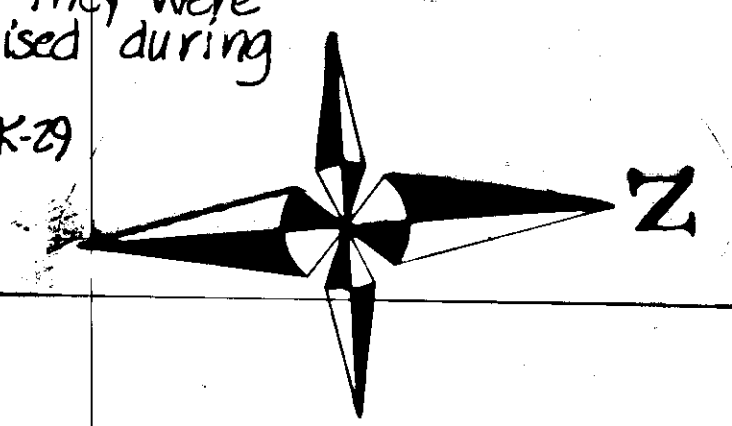


Basis of Bearing:

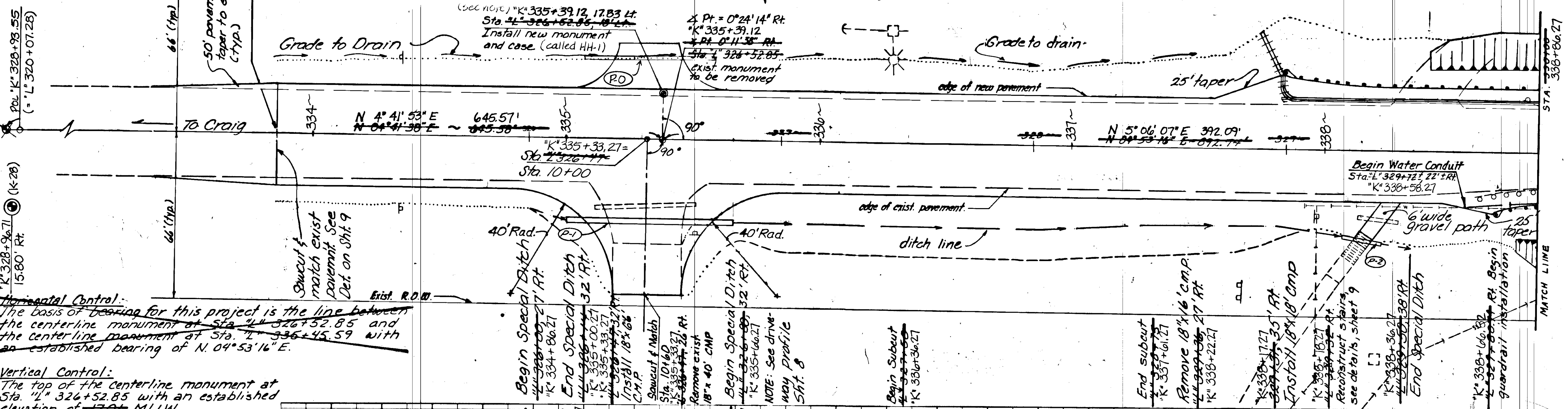
Horizontal alignment for this project is controlled by monuments K-28 and K-29; the bearing between is N 4° 28' 52" E and the distance between is 1,719.17'. These monuments were set in 1992 under Project No. RS-0924(12) Craig to Klawock Overlay. (See Stationing note on sheet 3)

Note: Both horizontal control monuments specified for installation under this contract were placed. They were paved over and not raised during Project RS-0924(12). New monuments K-28 & K-29 provide control.

BEGIN PROJECT
"Klawock River Bridge Approaches"
PROJECT NO. RS-0924(11), 69710
STA. "L" 325+00 - "K" 333+86.27

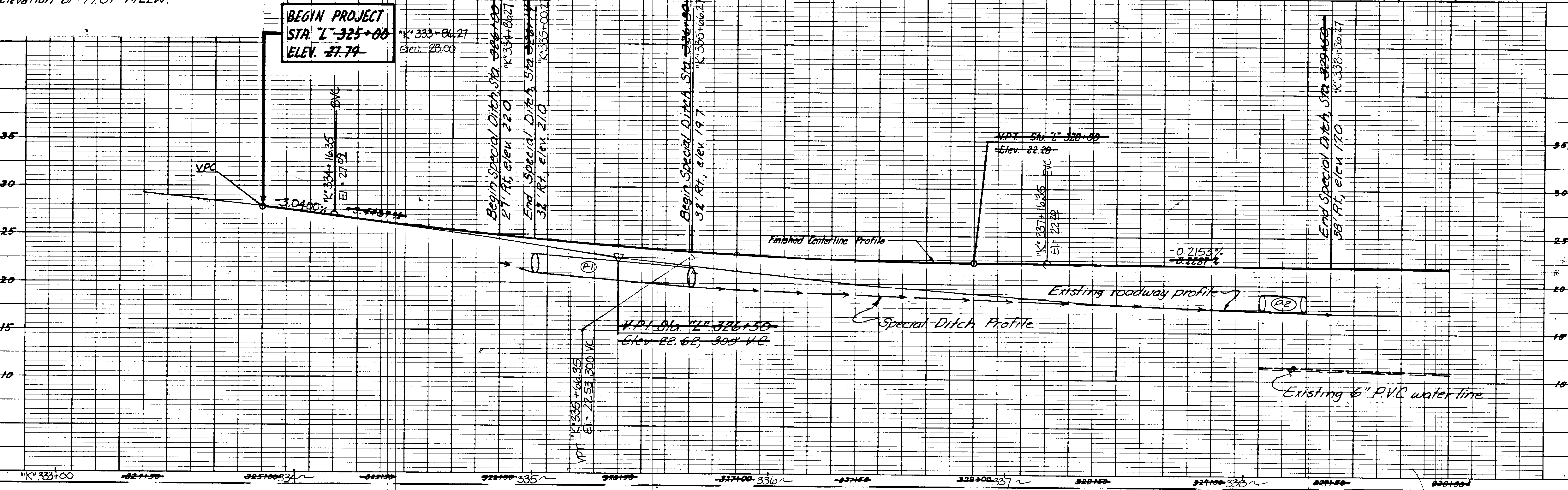


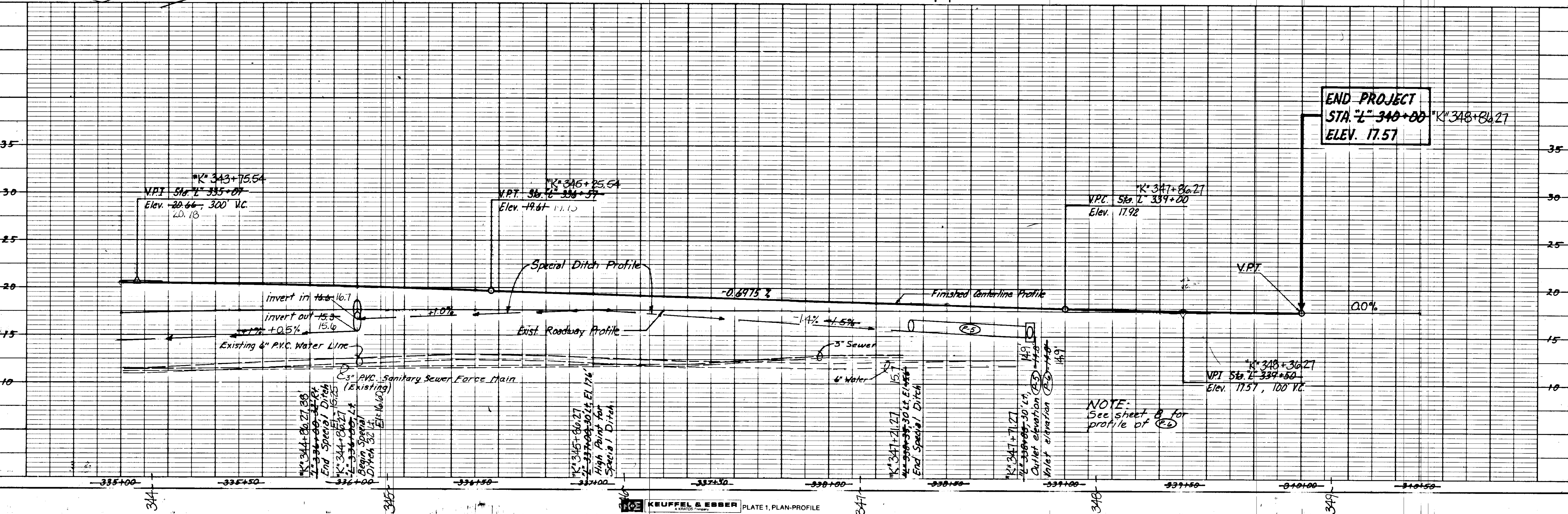
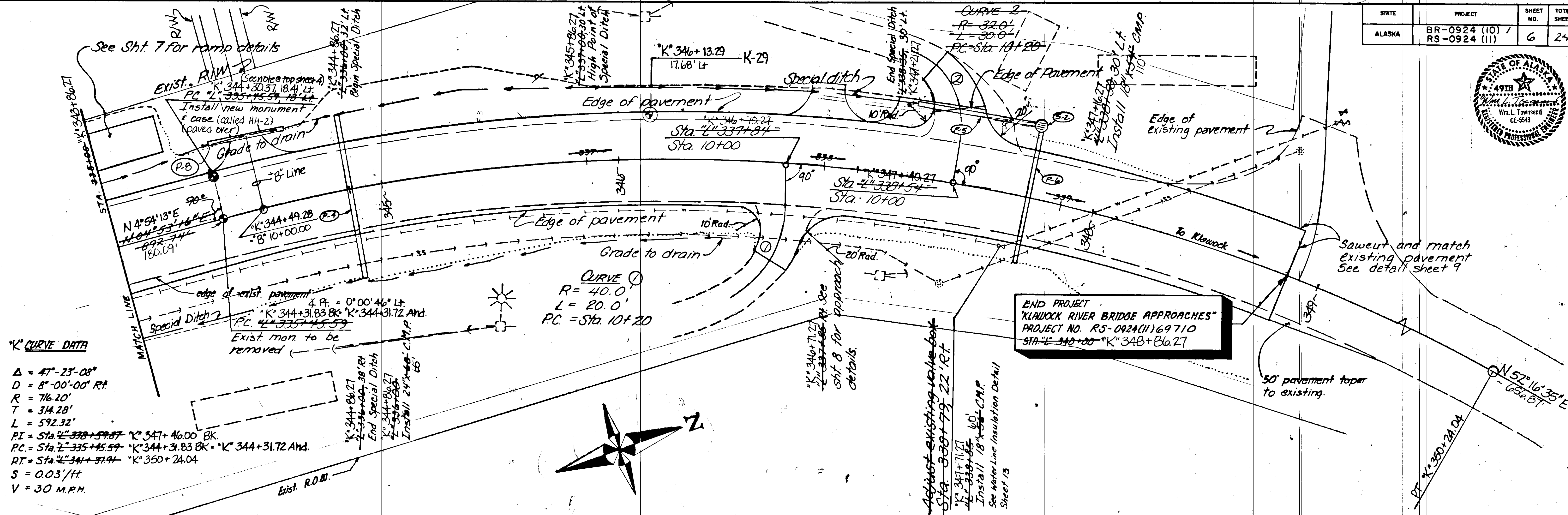
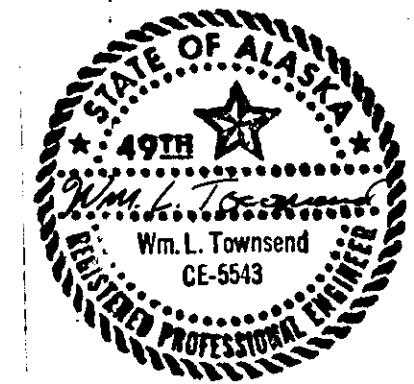
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0924 (10) / RS-0924 (11)	4	24

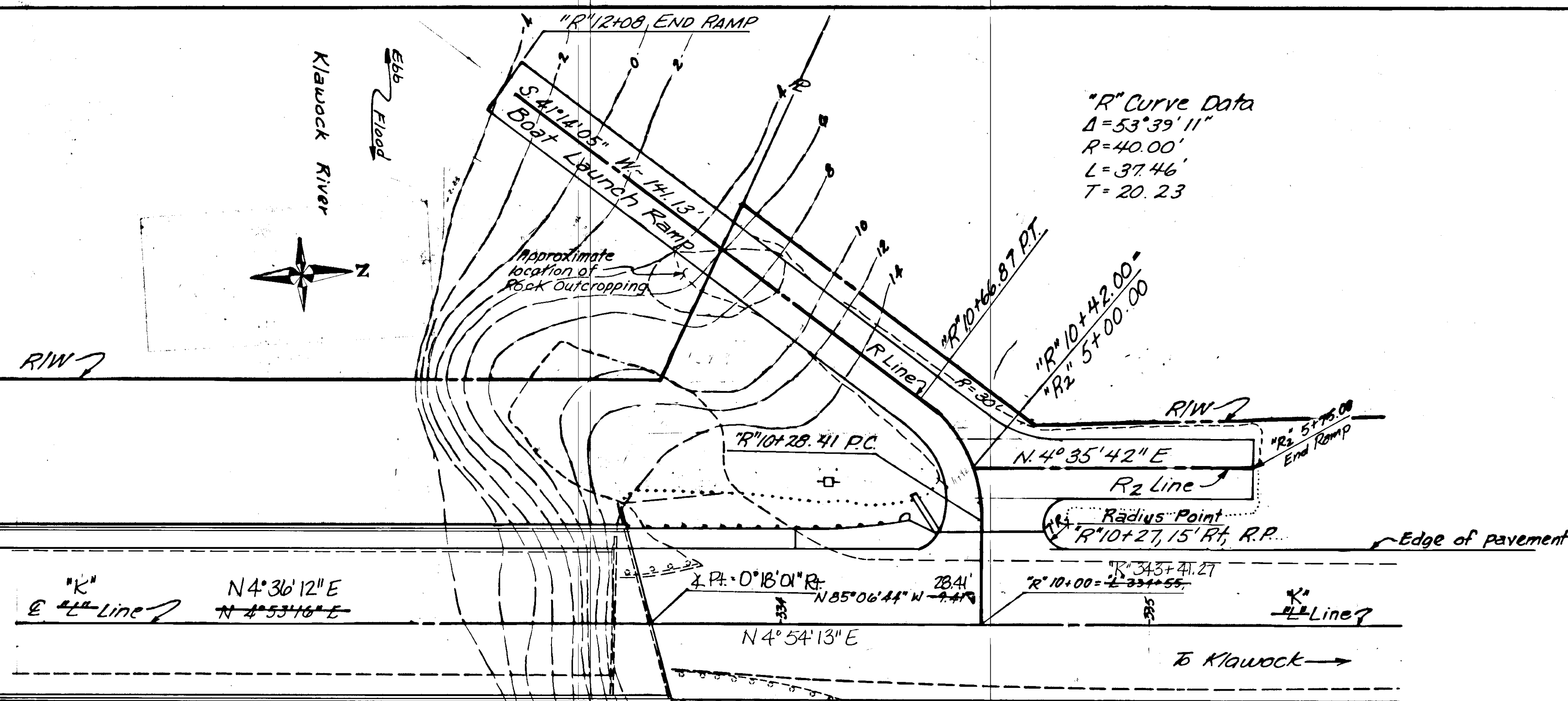


Horizontal Control:
The basis of bearing for this project is the line between the centerline monument at Sta. "L" 326+52.85 and the centerline monument at Sta. "L" 336+45.59 with an established bearing of N 04° 53' 16" E.

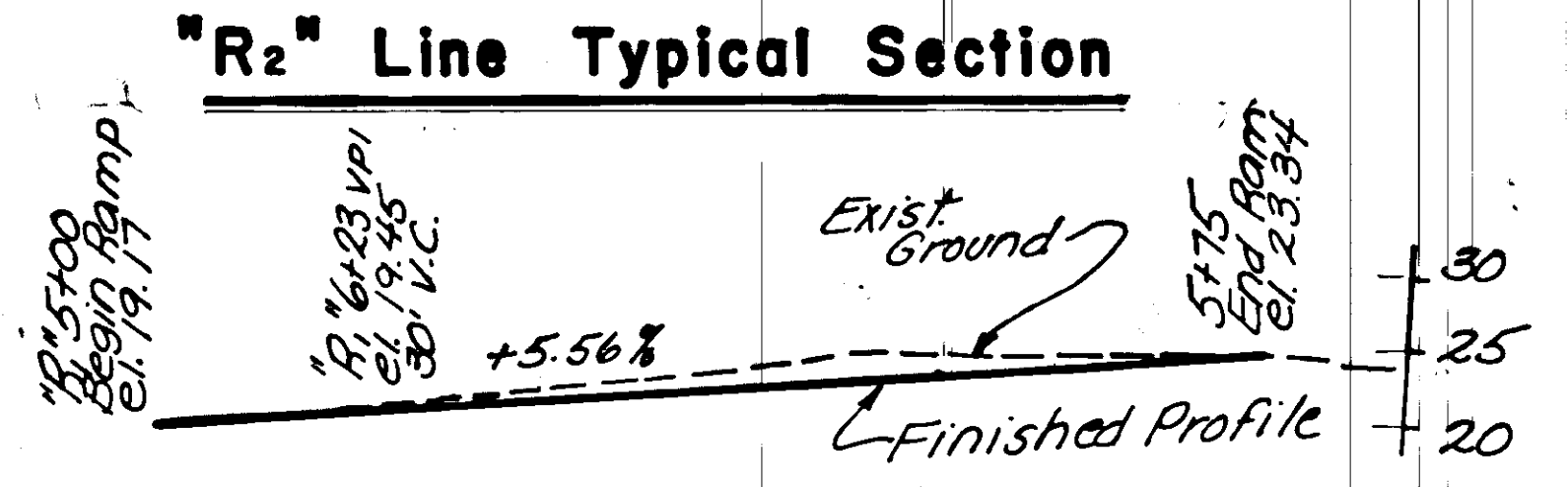
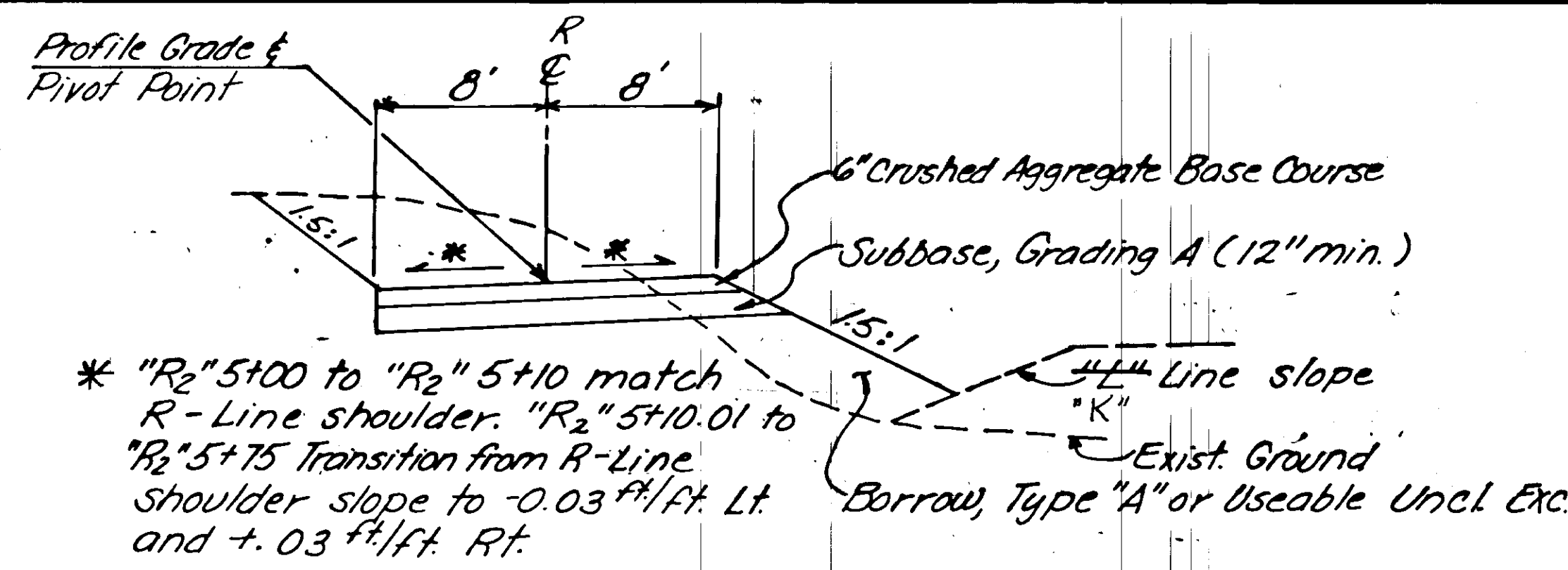
Vertical Control:
The top of the centerline monument at Sta. "L" 326+52.85 with an established elevation of +7.0' MLLW.



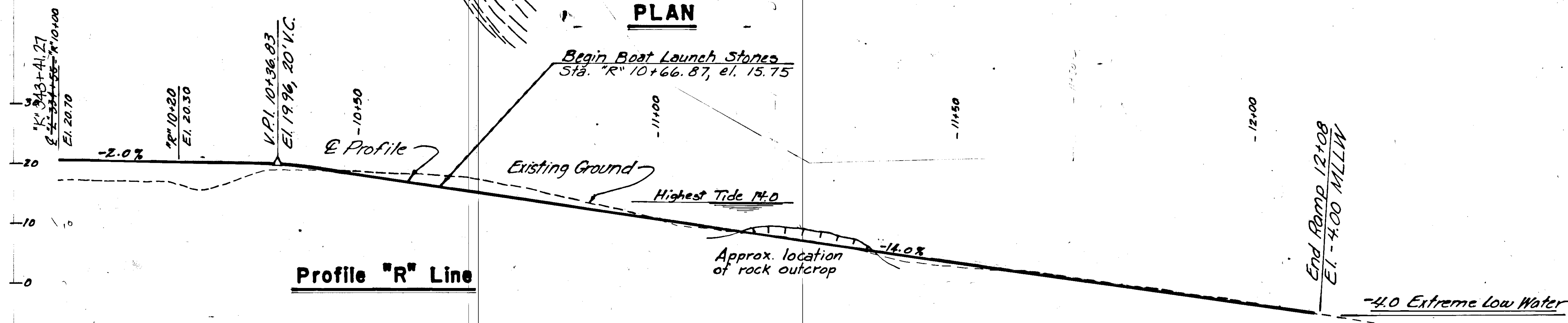




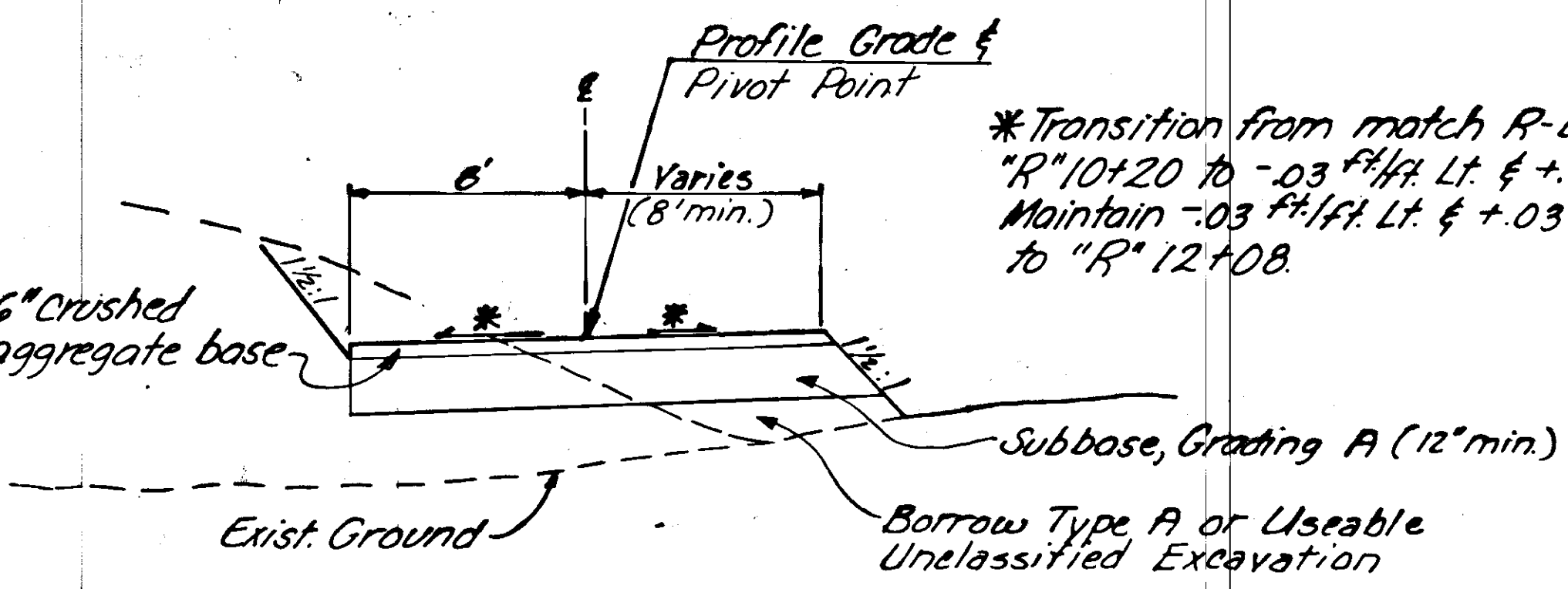
"R" Curve Data
 $\Delta = 53^{\circ}39'11''$
 $R = 40.00'$
 $L = 37.46'$
 $T = 20.23'$



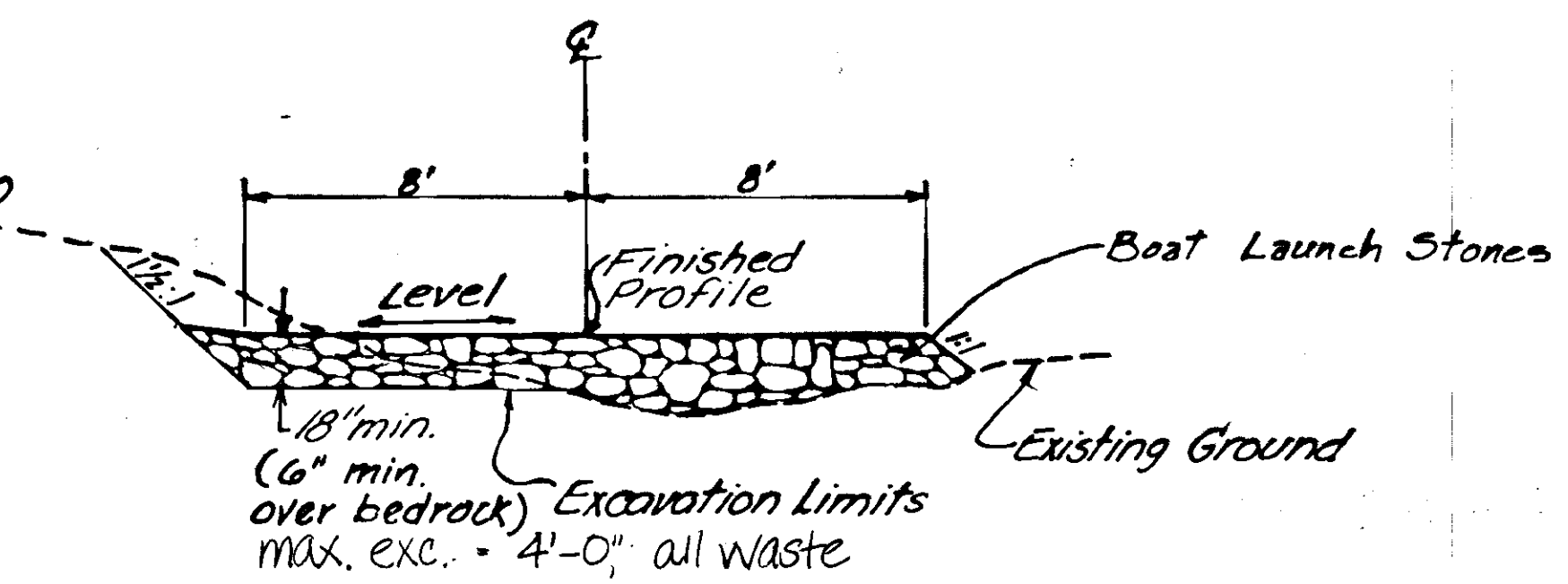
Profile "R2" Line



Profile "R" Line

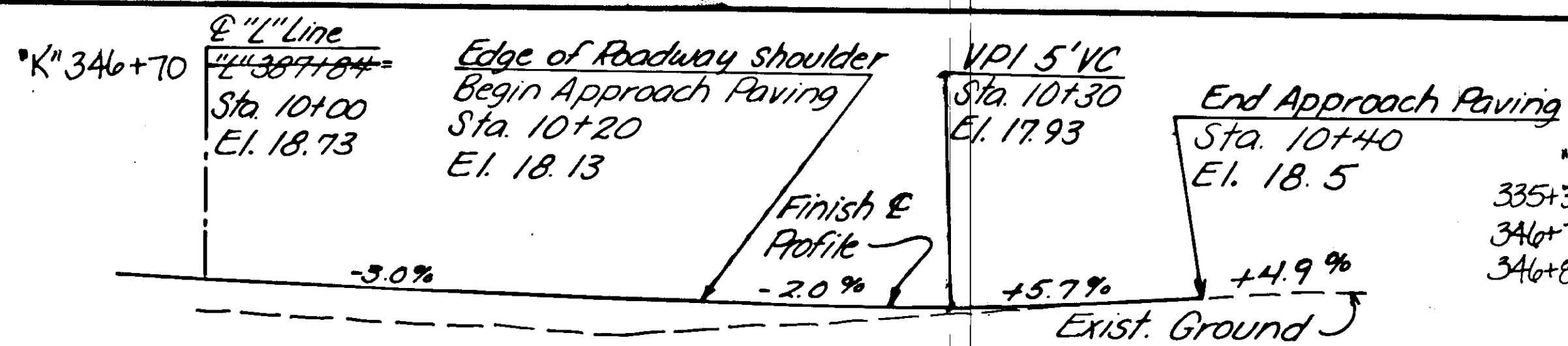


"R" Line Typical Section
 STA. 10+00 TO STA. 10+66.87



"R" Line Typical Section
 STA. 10+66.87 TO STA. 12+08

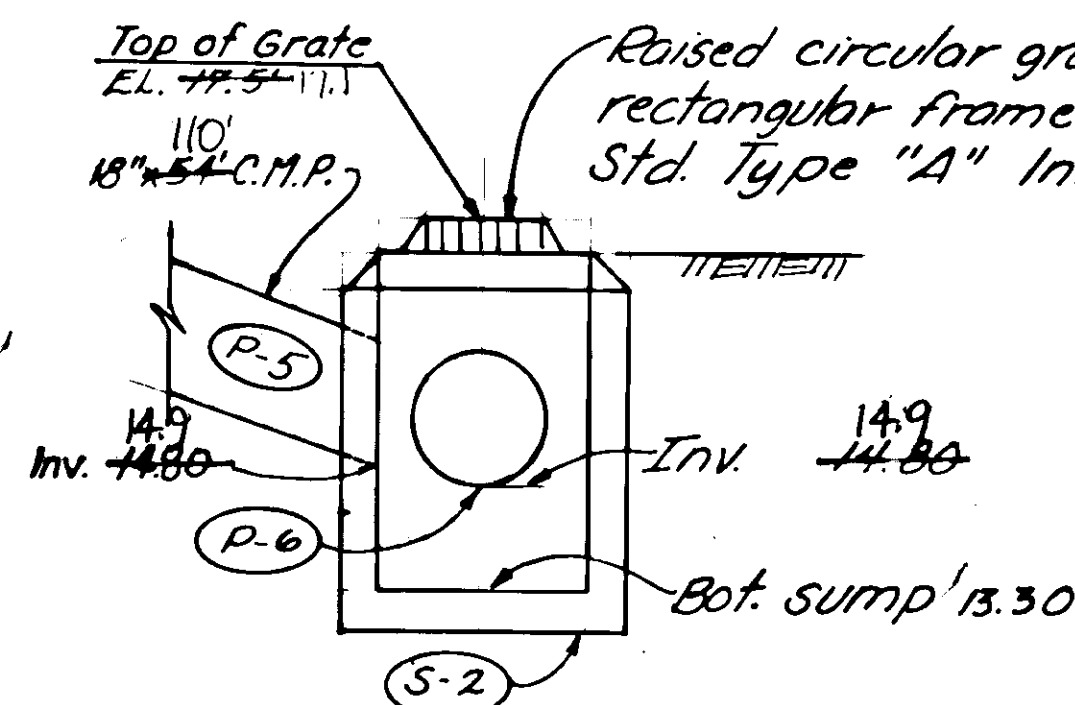
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Klawock, Alaska	
BOAT RAMP DETAILS			
DESIGNED <u>KLM</u>	CHECKED <u>WLT</u>	DRAWN <u>BWB</u>	DATE <u>8-89</u>
PROJECT NUMBER <u>BR-0924(10)/RS-0924(11)</u>		SHEET <u>7</u> OF <u>24</u>	



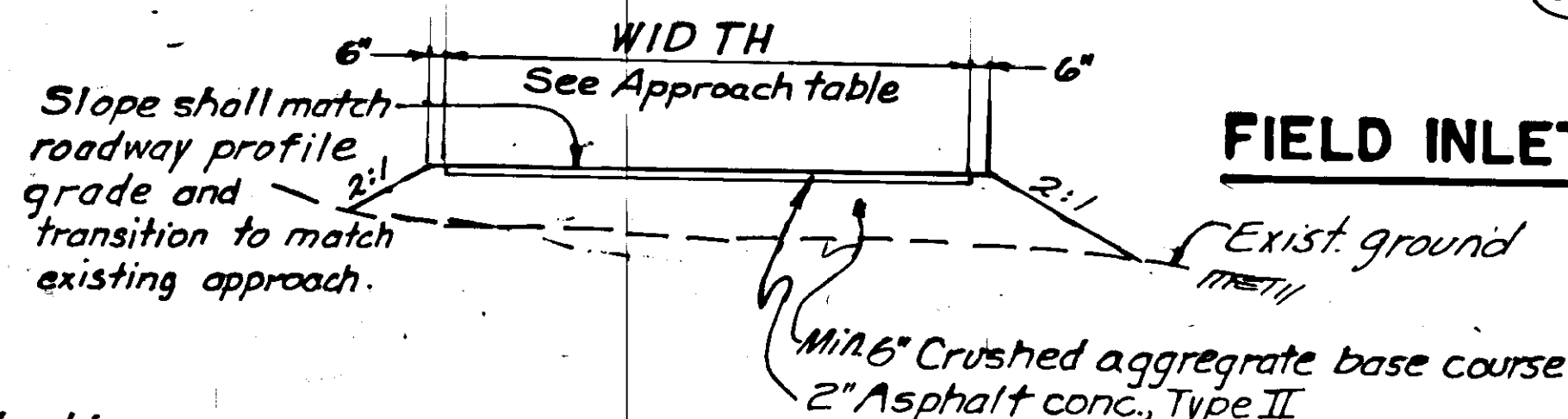
PROFILE - DRIVEWAY

Sta. "L" 337+84
"K" 346+70

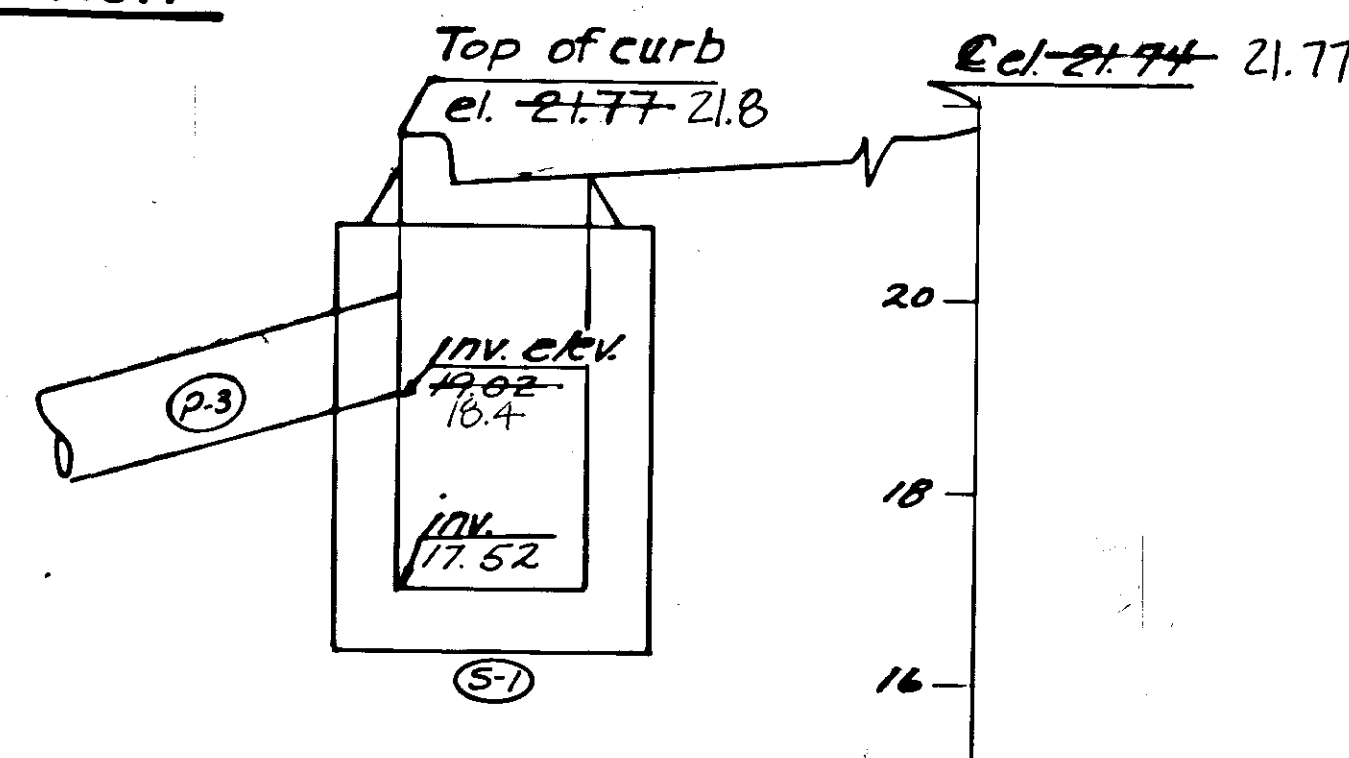
APPROACH TABLE				
STA.	OFFSET	WIDTH	RADIUS	
335+33	Lt.	24'	25'	
336+47	Rt.	27'	40'	
337+84	Rt.	16'	20'/10'	
338+54	Lt.	14' 1/2"	26'/10'	
344+47	Lt.	12'	20'	
*Varies from 24' at Sta. 10+20 to 16' at Sta. 10+50.				
346+70	Lt.	30'	20'	



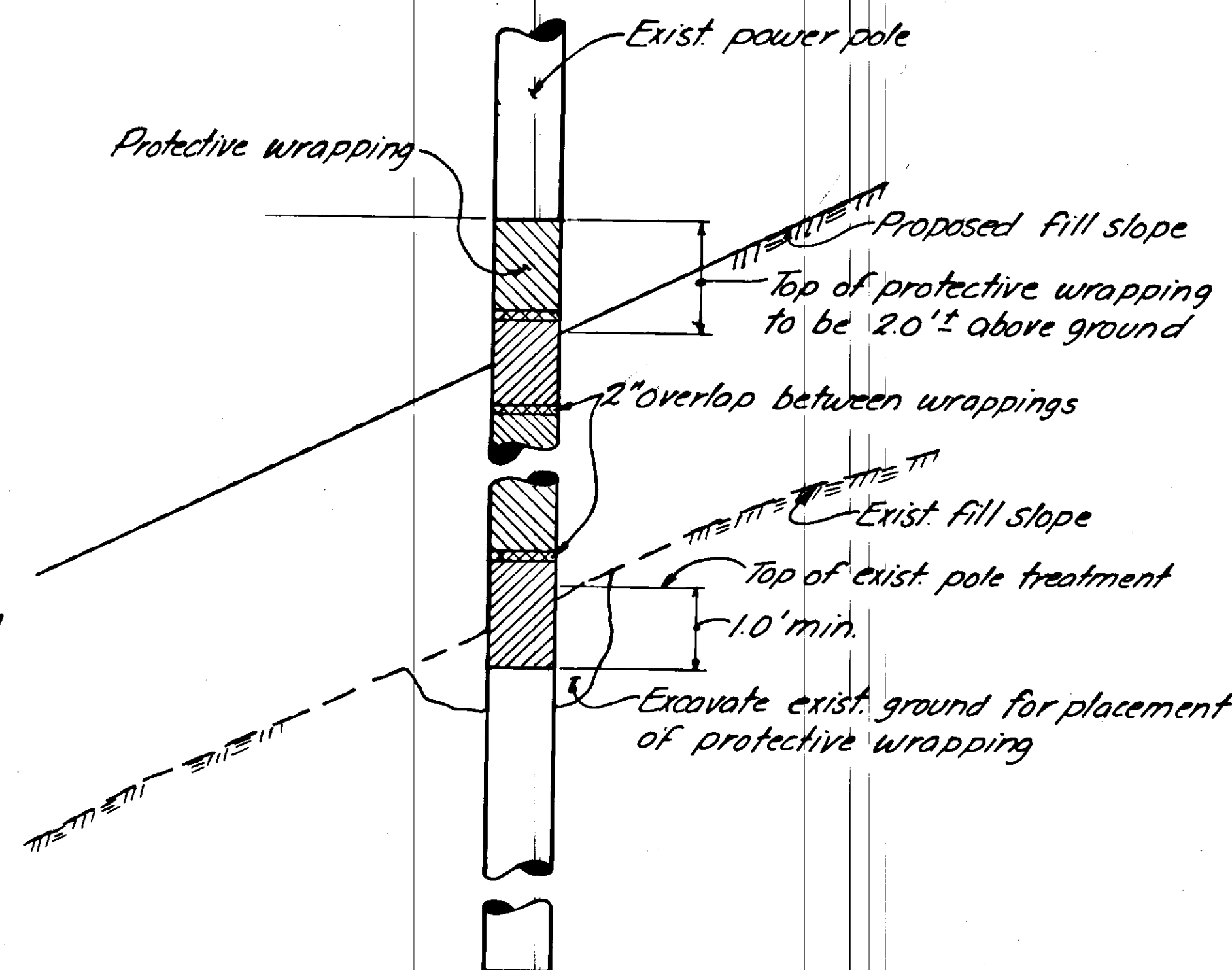
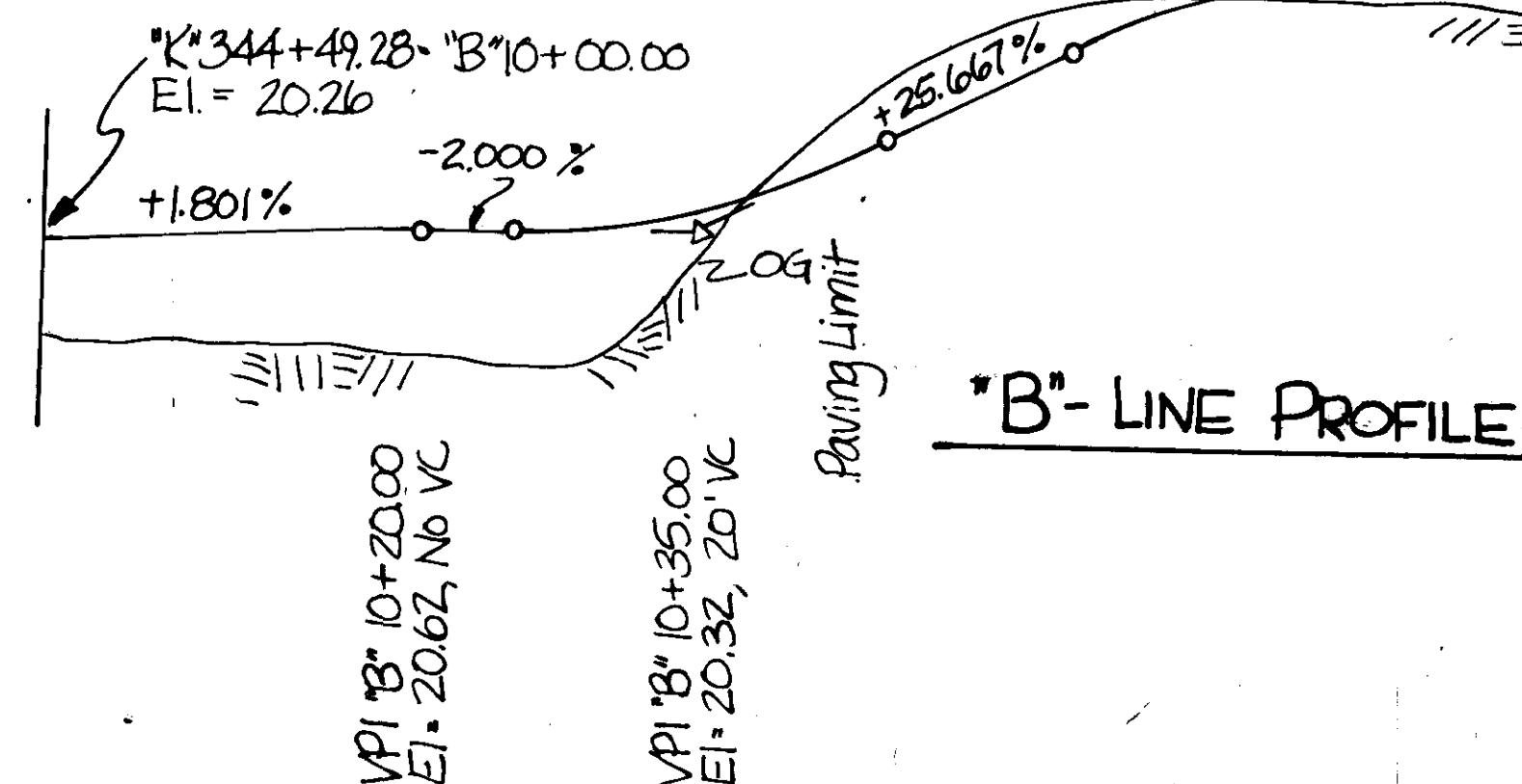
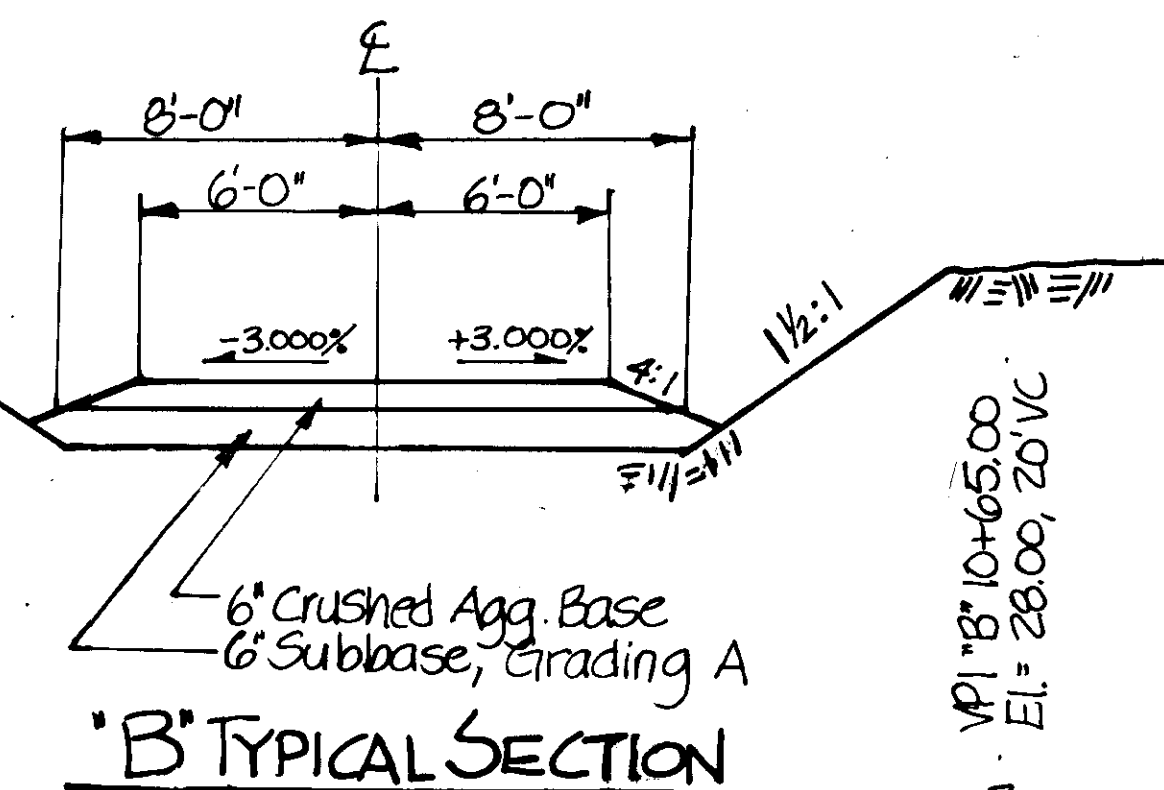
FIELD INLET AT 338+85



TYPICAL SECTION APPROACH



STORM DRAIN AT 330+36

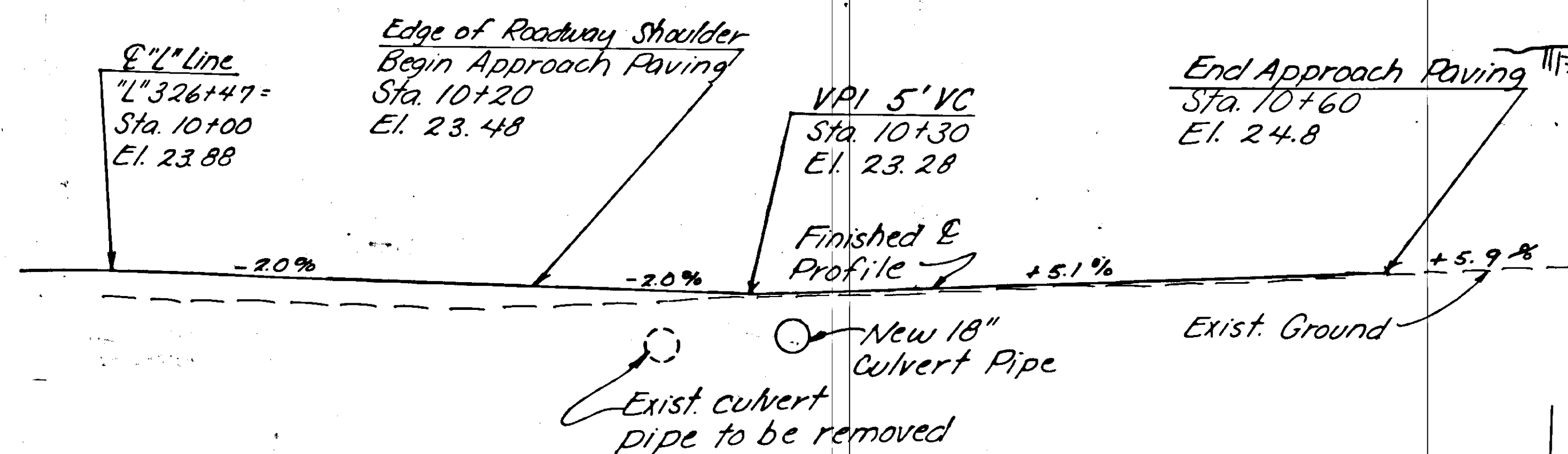


POLE PROTECTION DETAIL

"L" 330+40, Lt. "K" 339+26

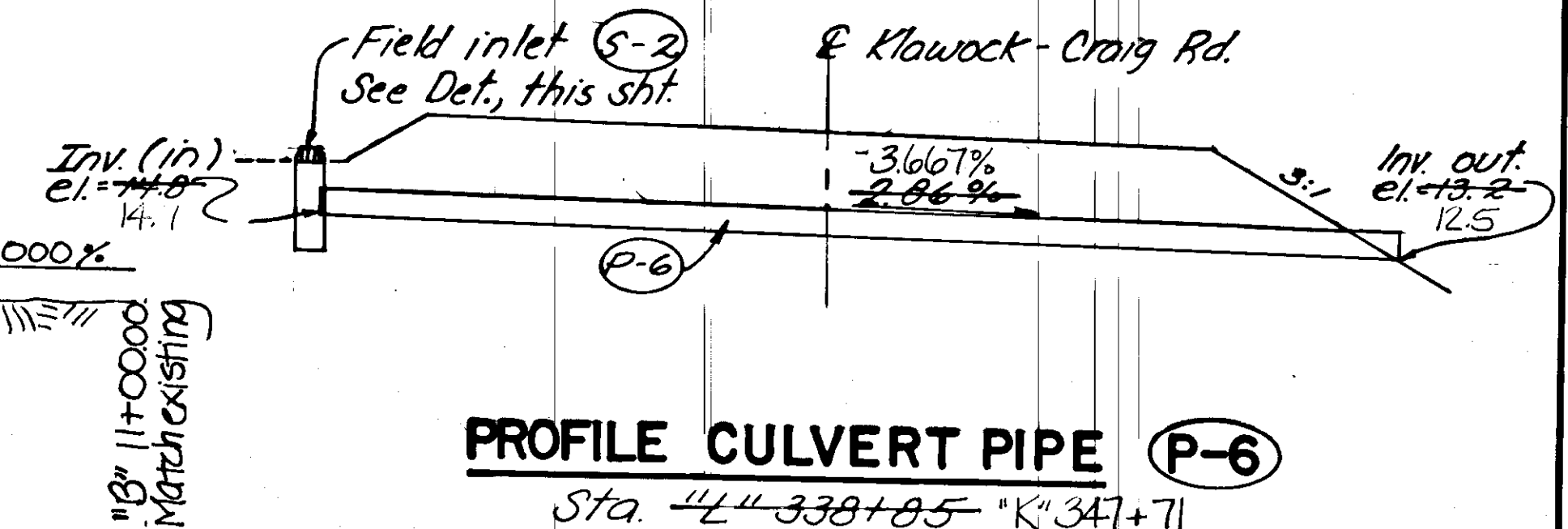
NOTES:

- Protective wrapping shall be secured tight around the pole as recommended by the manufacturer.
- "Cu NAP WRAP" supplied by Tenino Wood Preservatives, Inc. Seattle, Washington or approved equal may be used for the protective wrapping. Other products may be used if approved by Tlingit Haida Regional Electric Authority and the Project Engineer, See Special Provisions.

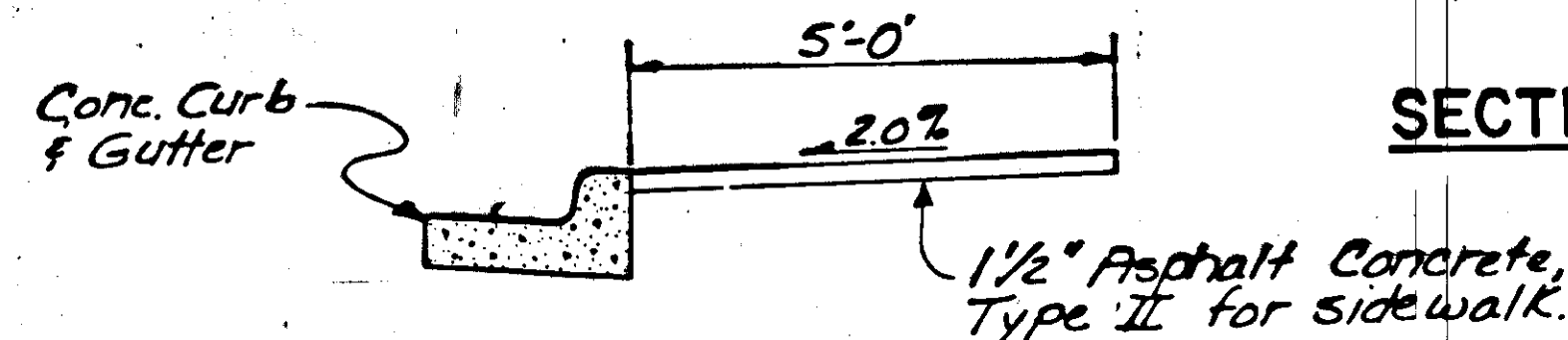
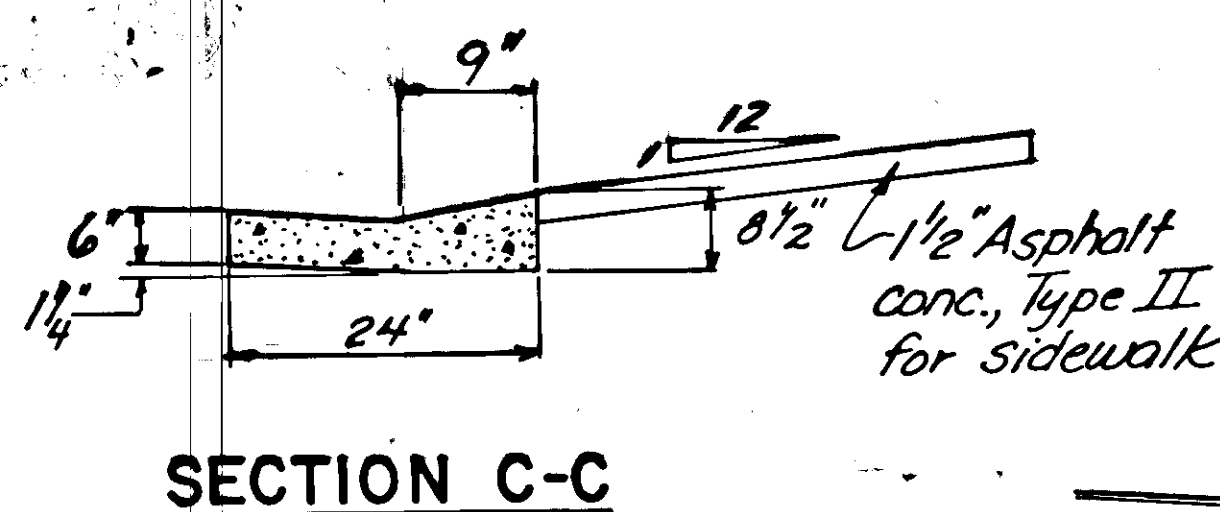
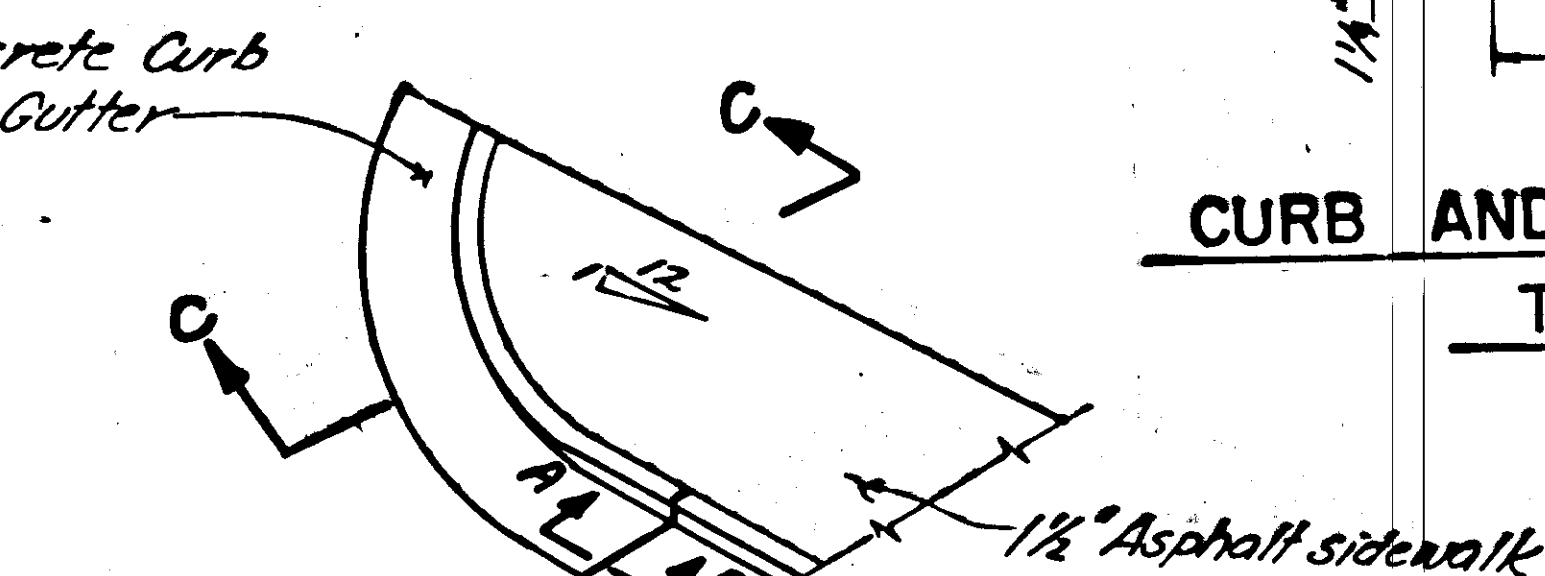
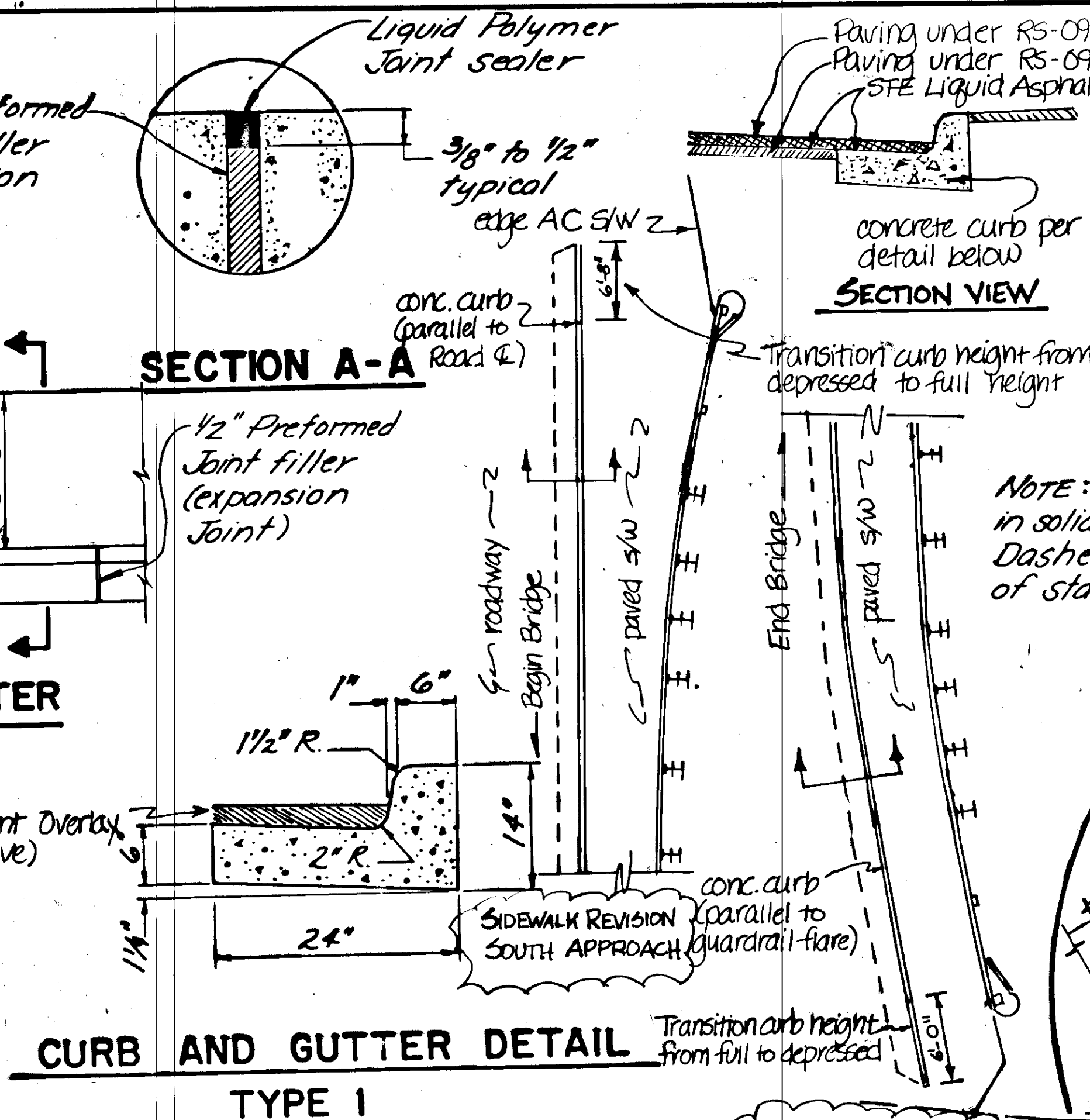
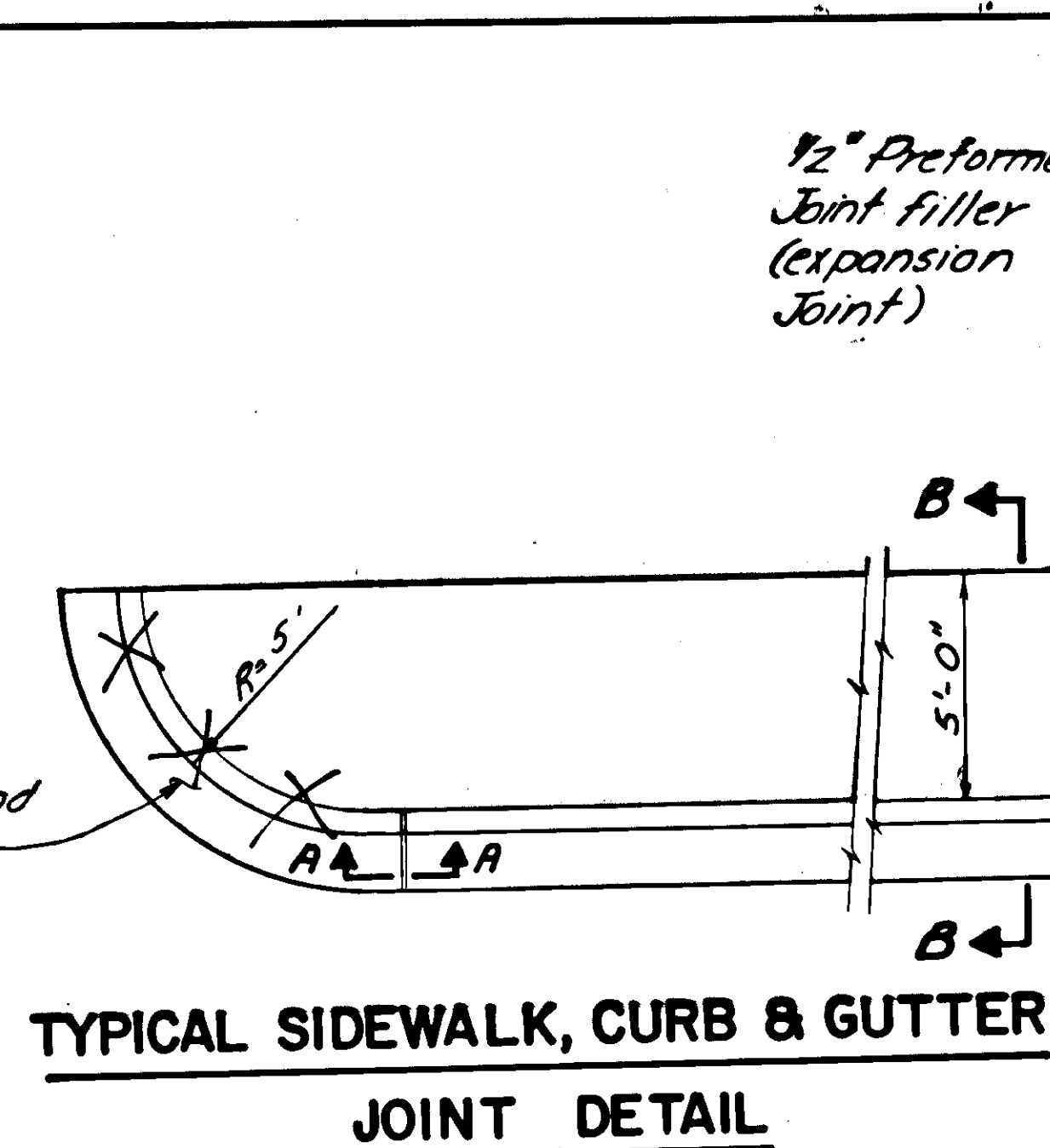


PROFILE - Klawock Trading Center

Sta. "L" 326+47 "K" 335+33



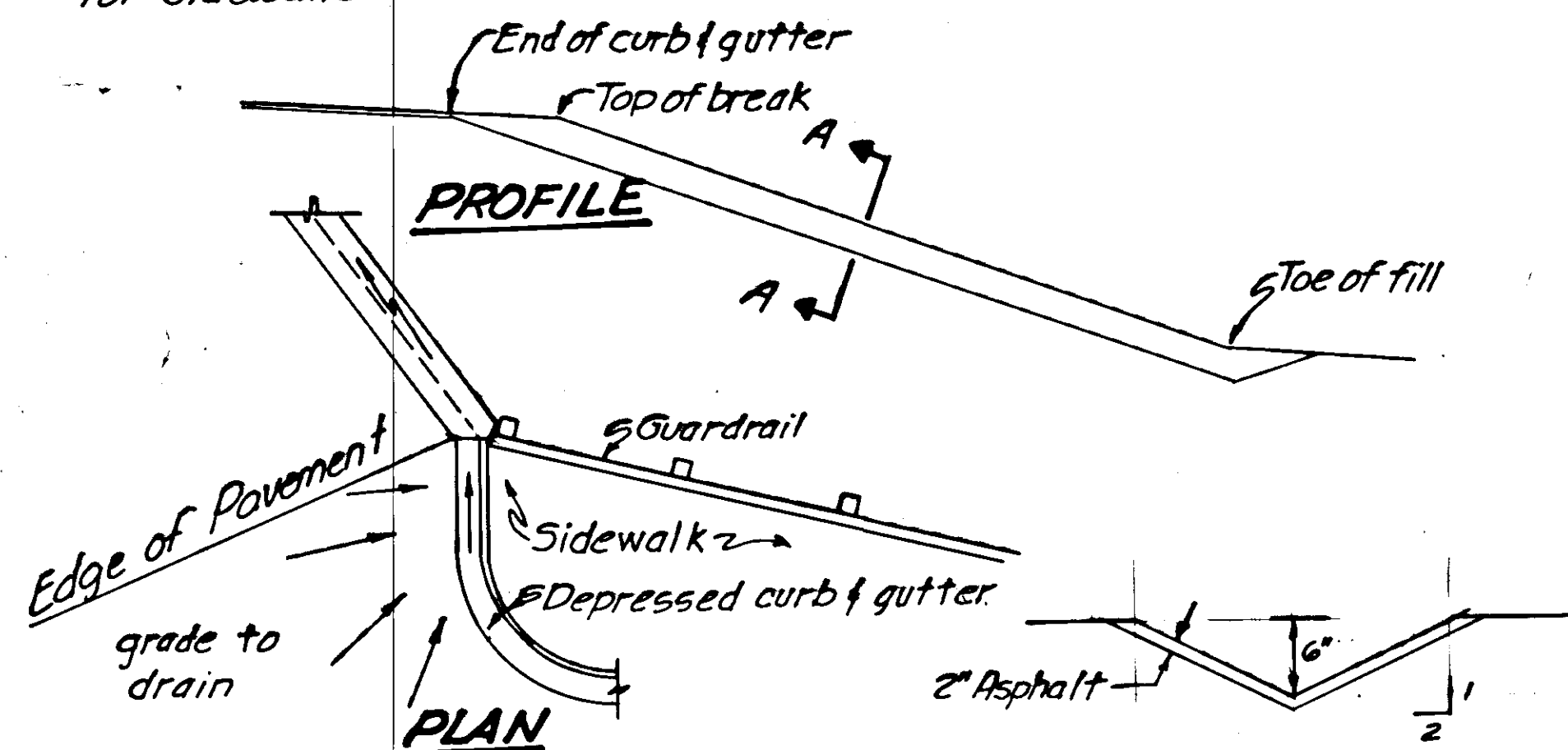
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES Klawock ALASKA	
DESIGNED KLM		CHECKED DDS	DRAWN Cda
PROJECT NUMBER 88-0924(10)		DATE 8-89	
SHEET 8		OF 24	



SIDEWALK NOTES

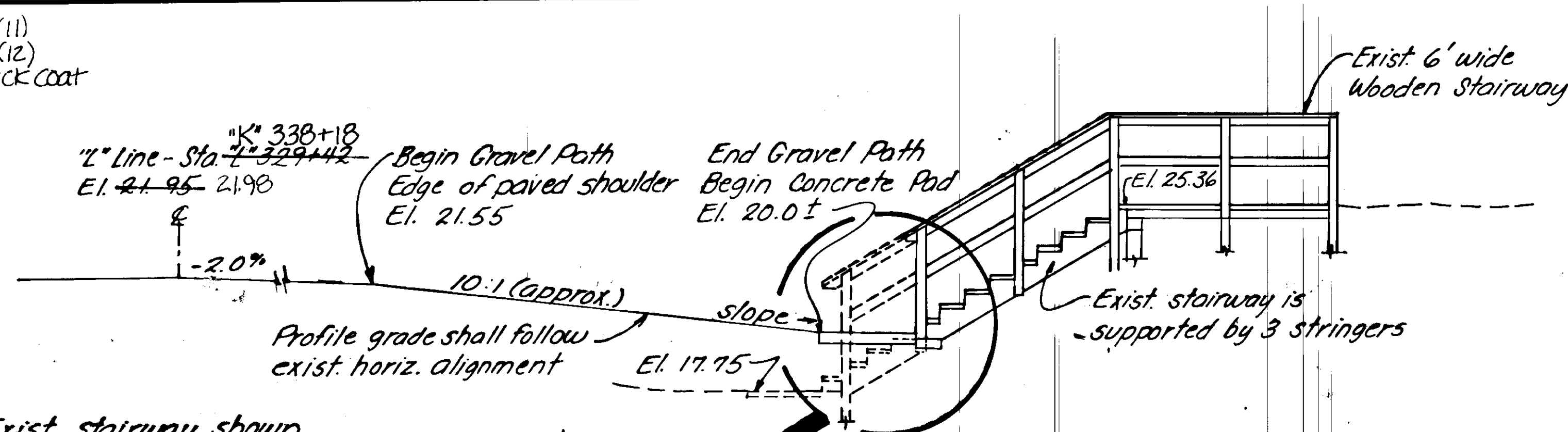
Curb & Gutter expansion joints shall be at each end of the curb returns and at all curb cuts. Thereafter, they shall be placed at 30'-0" maximum intervals except where shorter sections are needed for closure.

Face of curb shall transition (10' min.) to match bridge sidewalk.



"L" 329+00 Lt. & "L" 334+45 Lt.
Not Used

SECTION A-A

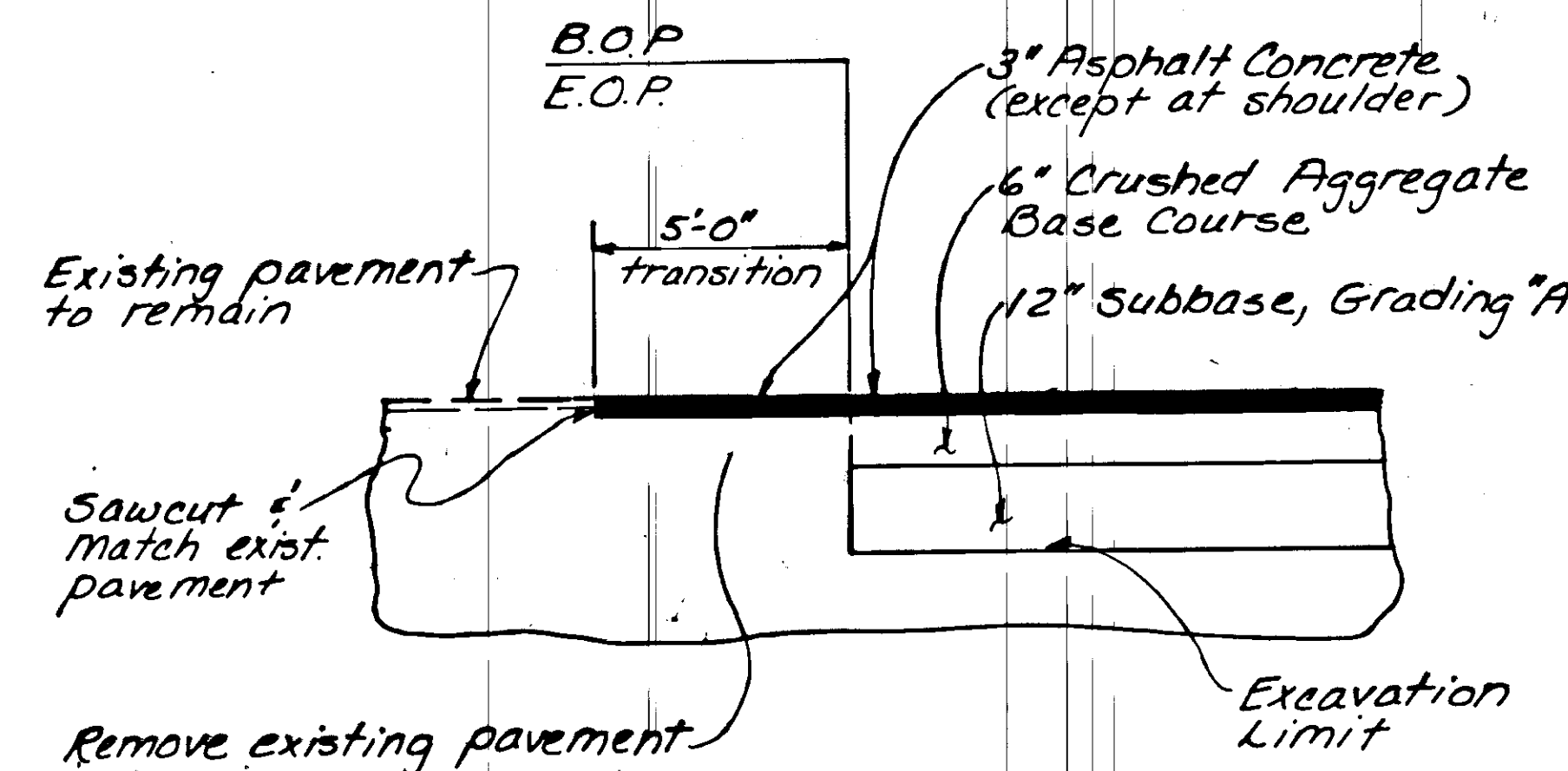


STAIR RECONSTRUCTION DETAIL

STA. 329+32, RT.
"K" 338+18

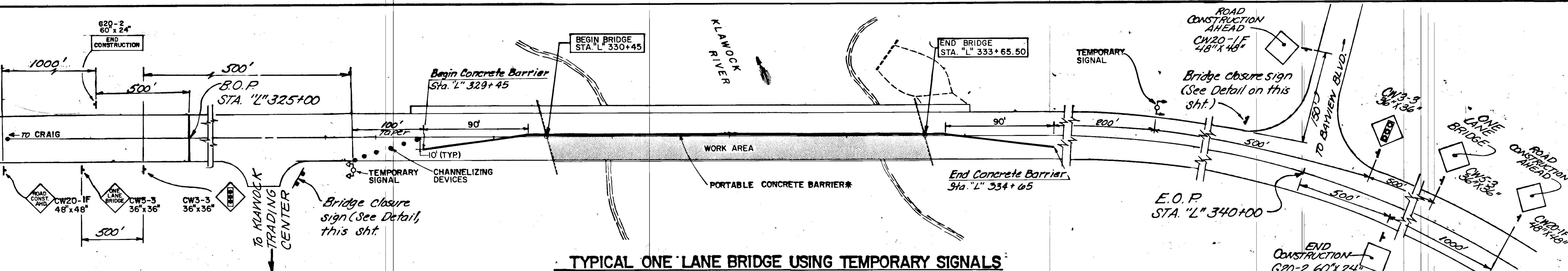
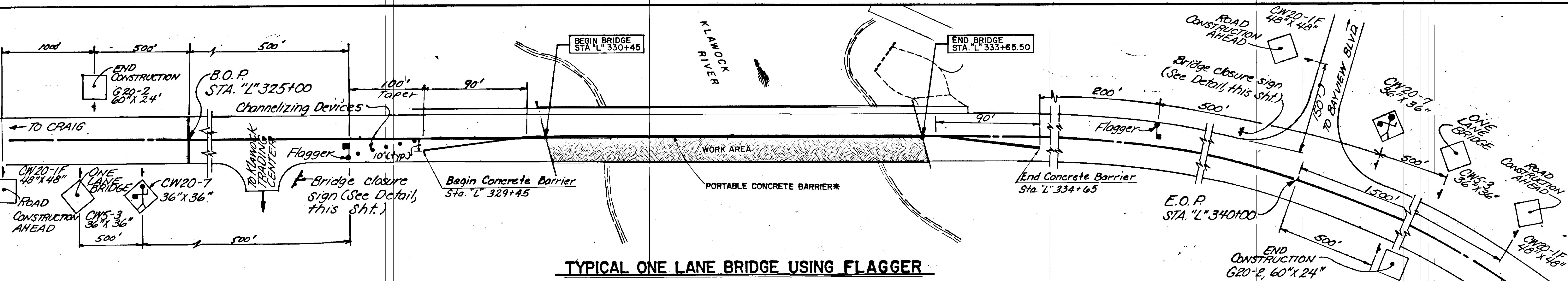
NOTE: Exist. stairway, shown in solid line, will remain. Dashed line shows removal of stairway.

Min. 6" crushed aggregate base course under conc. pad & footing. Borrow, Type A or useable uncl. exc. shall be used under base course.



PAVEMENT MATCH JOINT DETAIL

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
KLANOCK		ALASKA	
SIDEWALK DETAILS			
DESIGNED KLM	CHECKED DDS	DRAWN Cda	DATE 8-89
PROJECT 88-0924(10)		SHEET 9 OF 24	
NUMBER 88-0924(11)			



PERMANENT CONSTRUCTION SIGNING

QUANTITY	SIZE	S.F.	DESIGNATION**	LEGEND	REMARKS
3	48" x 48"	32	CW20-1F	Road Construction Ahead	HI-LEVEL WARNING
2	24" x 60"	20	G20-2	End Construction	

CONSTRUCTION SIGNING

2	36" x 36"	9.0	CW5-3	One Lane Bridge	Post Mounted
2	48" x 48"	16.0	CW20-4F	one Lane Road Ahead	
2	36" x 36"	9.0	CW20-8	Be Prepared to Stop	
2	36" x 36"	9.0	CW14-5B	Bridge Closed Ahead	
2	30" x 48"	10.0	R11-2	Road Closed	Mounted on TYPE III Barricade
2	36" x 36"	9.0	CW3-3		Post Mounted
2	36" x 36"	9.0	CW20-7		Post mounted if used in lieu of CW3-3
2	48" x 48"	16.0	CW22-1	Blasting Zone 1000 Ft.	
2	42" x 36"	10.5	CW22-2	Turn off 2-way Radio	
2	42" x 36"	10.5	CW22-3	End Blasting Zone	

** FROM ALASKA SIGN DESIGN SPECIFICATION (ASDS). ADDITIONAL SIGNS MAY BE NECESSARY AS CONDITIONS DICTATE.

NEXT BRIDGE CLOSING
TUES. JULY 29
9:30a.m.-11:30a.m.

LEGEND: Black
BACKGROUND: Orange
LETTERING: 6C (ASDS)

NOTES:

- Bridge closing legends shall include day of week, calendar day, beginning and ending time and a.m. or p.m.
- Sign shall include hooks to hold variable legend, or some other means of changing time and date.
- Variable legend shall be reflectorized.

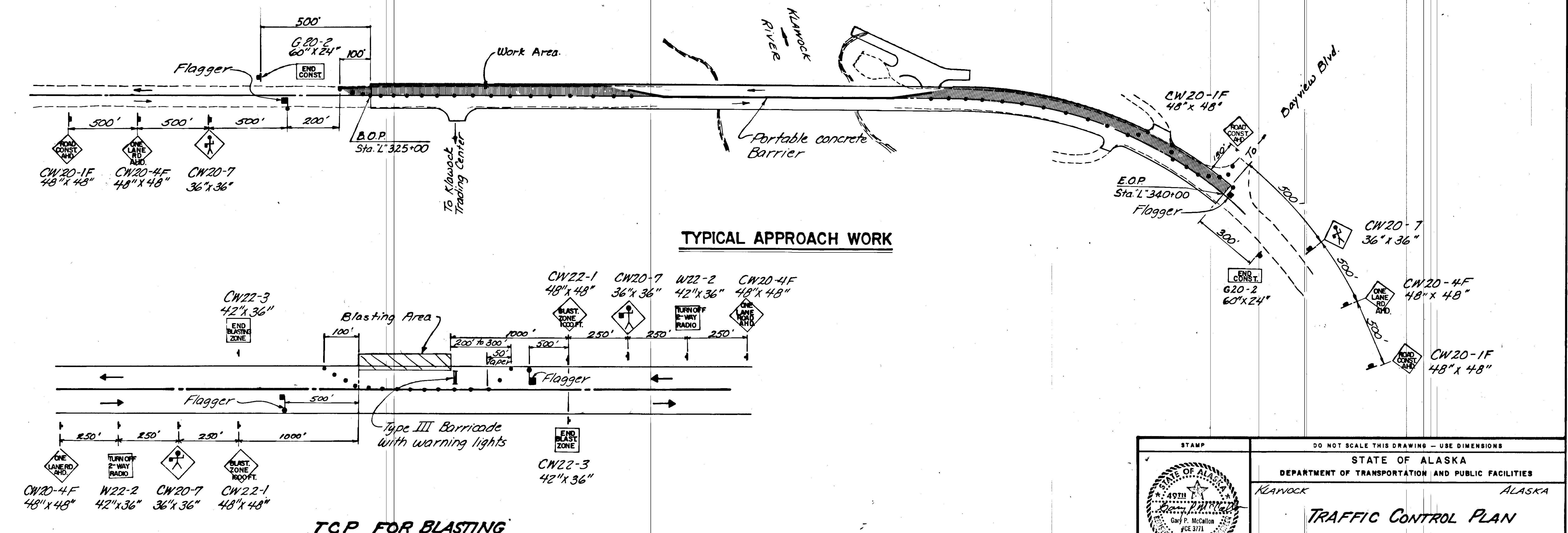
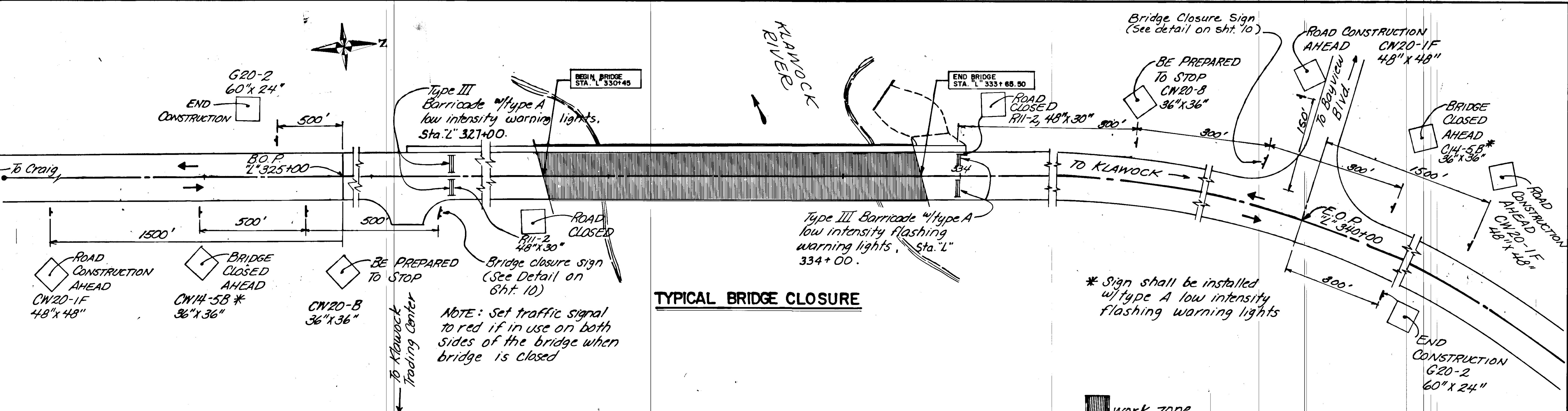
SPECIAL BRIDGE CLOSURE SIGN

* Type C warning lights shall be mounted on top of the concrete barrier 1 hour before sunset and remain operational until 1 hour after sunrise. Maximum spacing between warning lights shall be equal to the construction speed limit in feet.

GENERAL NOTES

- See Special Provisions for allowable bridge closures.
- When only one lane of the bridge is open, traffic shall be directed by either a flagger or coordinated traffic signals, 24 hours a day. Signal shall have a minimum one way green time equal to 90 seconds.
- Pedestrian access shall be maintained at all times.
- Maximum spacing between channelizing devices shall be equal to the construction speed limit in feet.
- Cones shall be used for channeling devices.
- Driveways & approaches shall remain open & accessible at all times.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
KLAWOCK		ALASKA	
TRAFFIC CONTROL PLAN			
DESIGNED KLM	CHECKED DDS	DRAWN RKS	DATE 8-89
PROJECT NUMBER BR0924(10)/RS-0924(11)		SHEET 10 OF 24	



TCP FOR BLASTING

Diagram illustrating the typical approach work setup for the Klawock River bridge. The approach work area is shown on the left, with a flagger managing traffic. The work area is indicated by a shaded area. Signs include: ROAD CONSTRUCTION AHEAD CW20-1F 48"x48", BRIDGE CLOSED AHEAD CW14-5B 36"x36", BE PREPARED TO STOP CW20-B 36"x36", ROAD CLOSED R11-2 48"x30", and END BRIDGE STA. L 333+65.50. The diagram also shows the bridge closure sign (See detail on sht. 10) and the bridge closure sign (See detail on sht. 10). A note states: "NOTE: Set traffic signal to red if in use on both sides of the bridge when bridge is closed".

STAMP

STATE OF ALASKA
49TH
Gary P. McCallion
#CE 3771

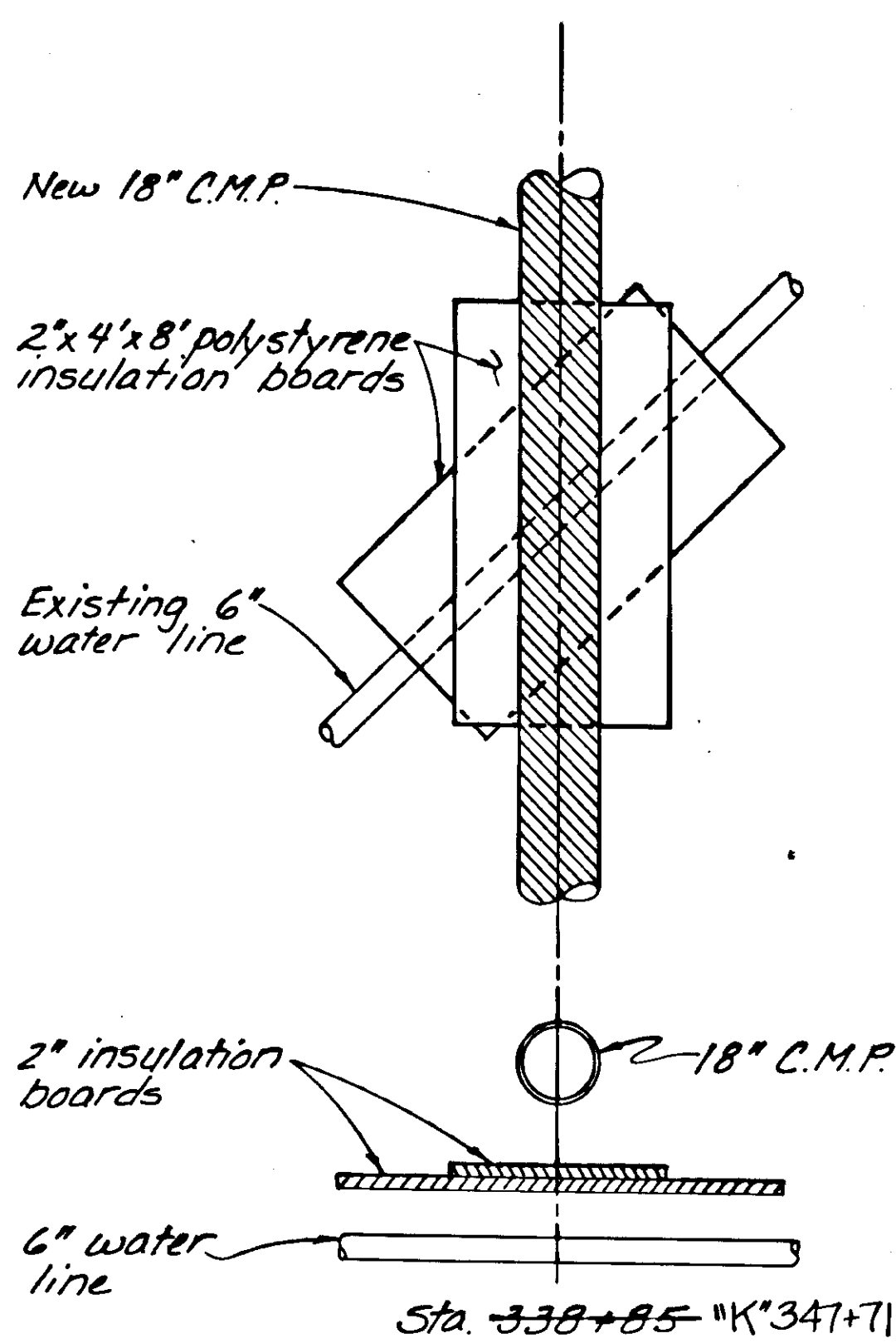
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

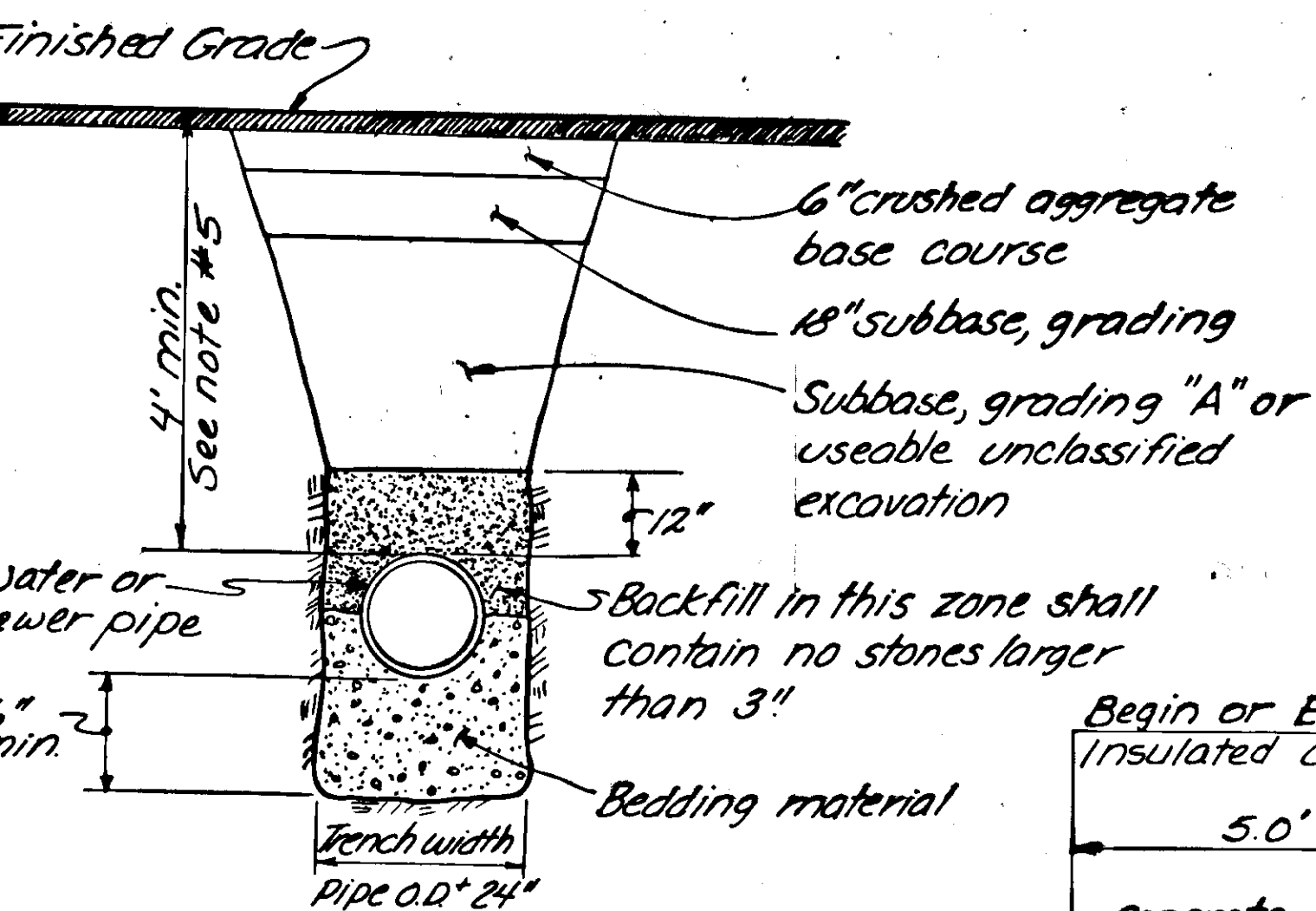
Klawock ALASKA

TRAFFIC CONTROL PLAN

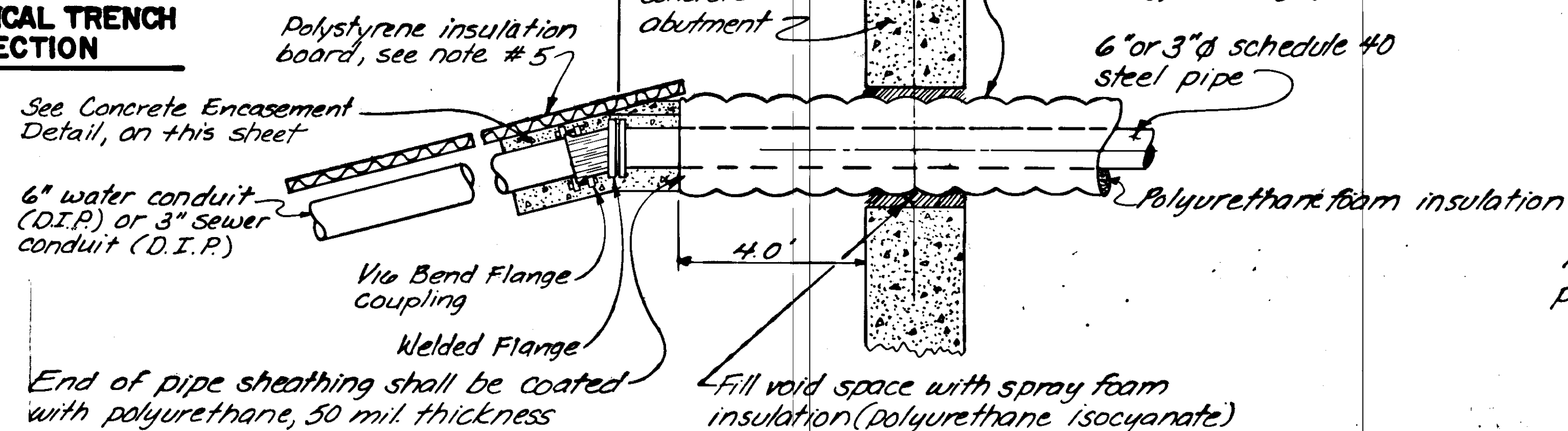
DESIGNED KLM CHECKED DDS DRAWN cd DATE 8-89
PROJECT NUMBER BR-0924(10)/RS-0924(11) SHEET 11 OF 24



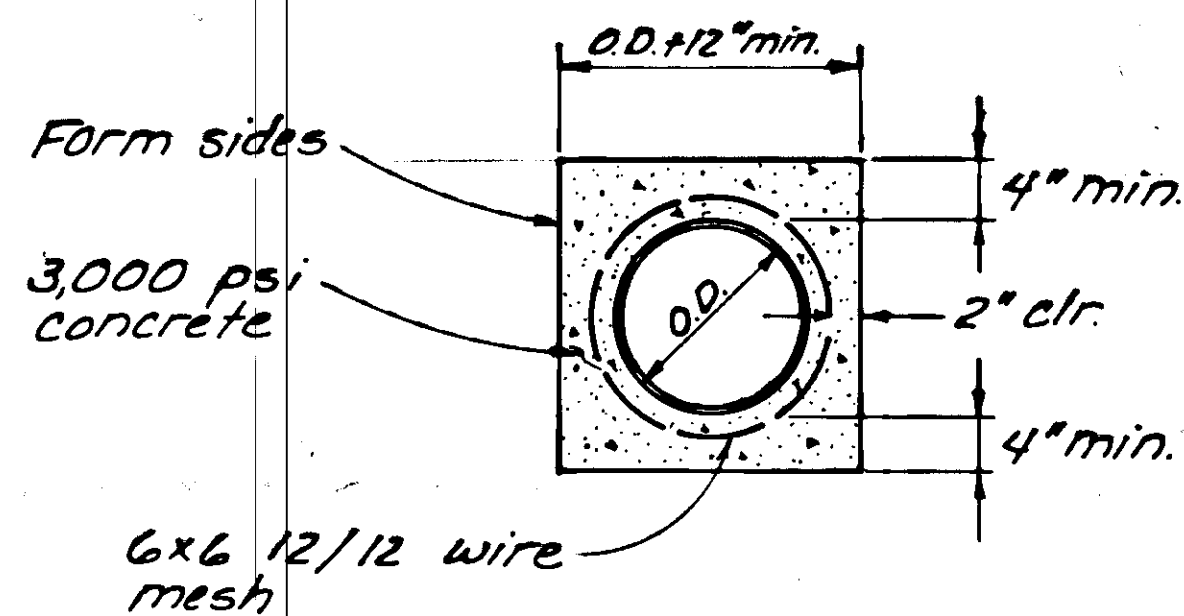
WATER LINE INSULATION DETAIL



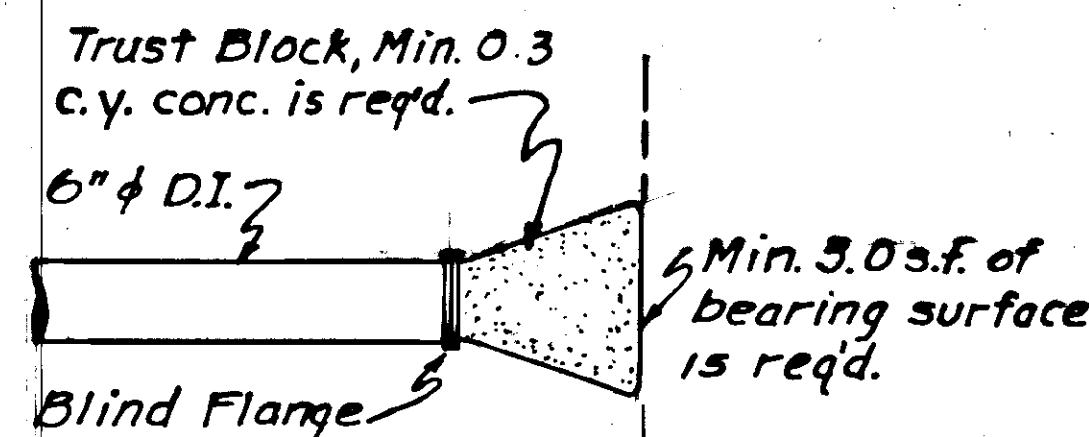
TYPICAL TRENCH SECTION



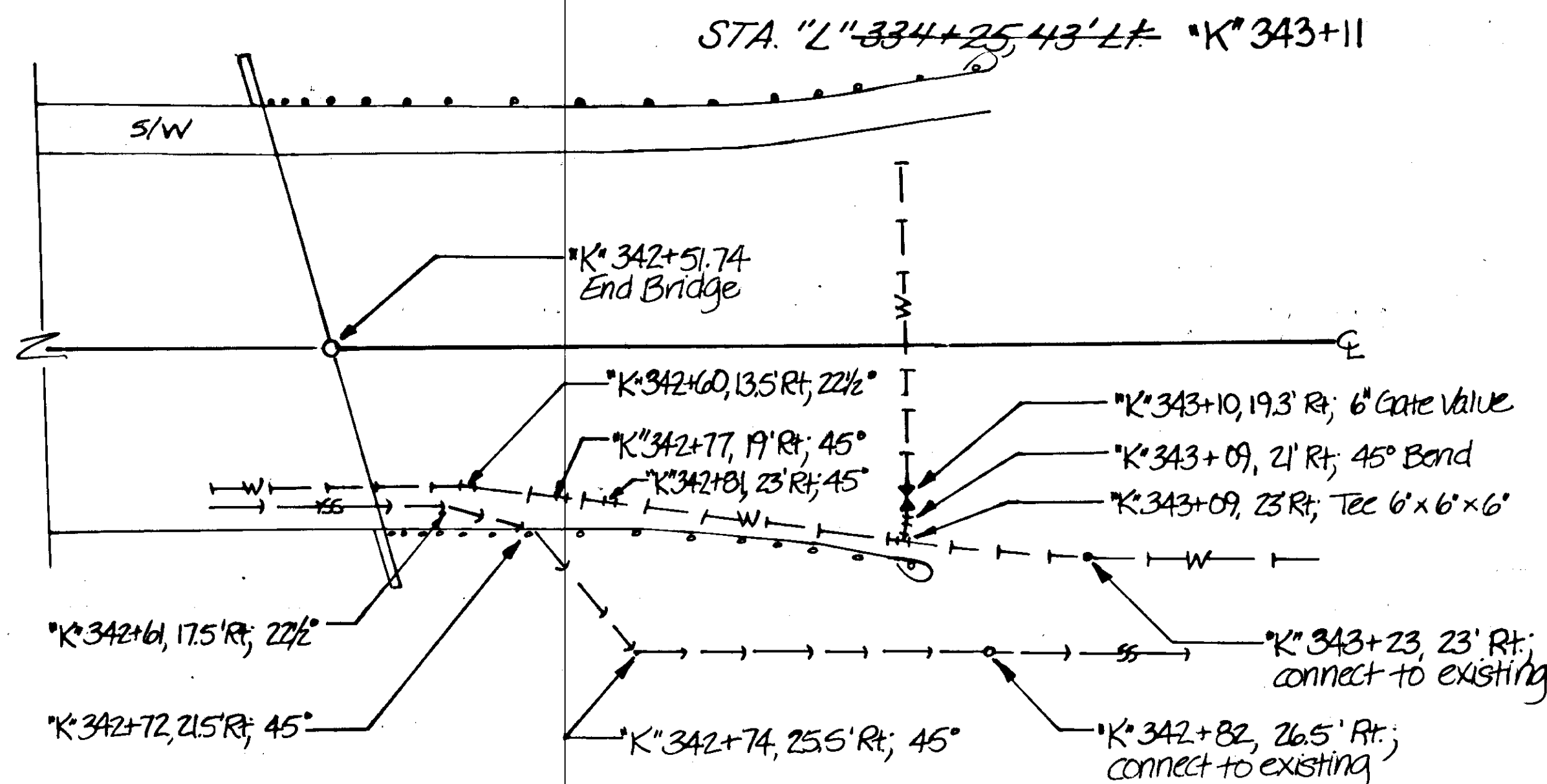
TYPICAL SEWERLINE OR WATERLINE INSTALLATION AT ABUTMENTS



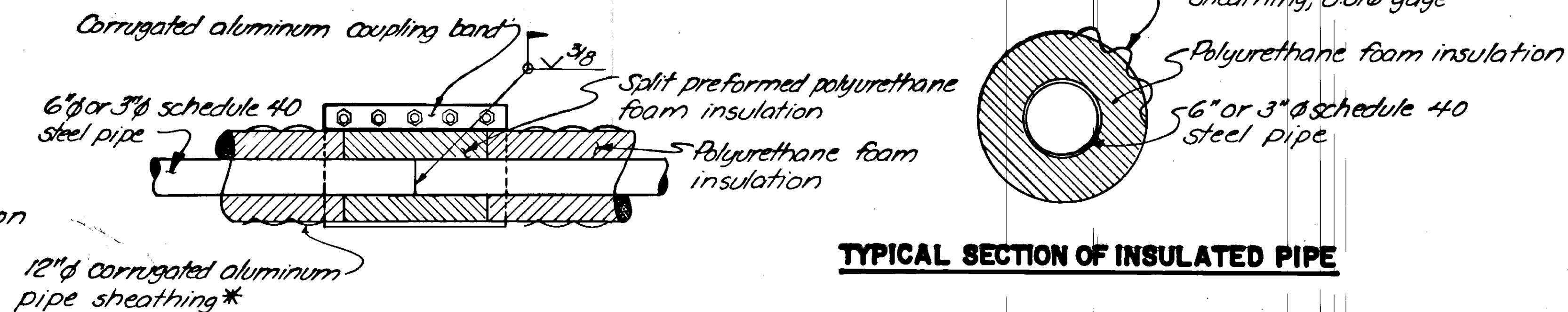
CONCRETE ENCASEMENT DETAIL



THRUST BLOCK-END CAP

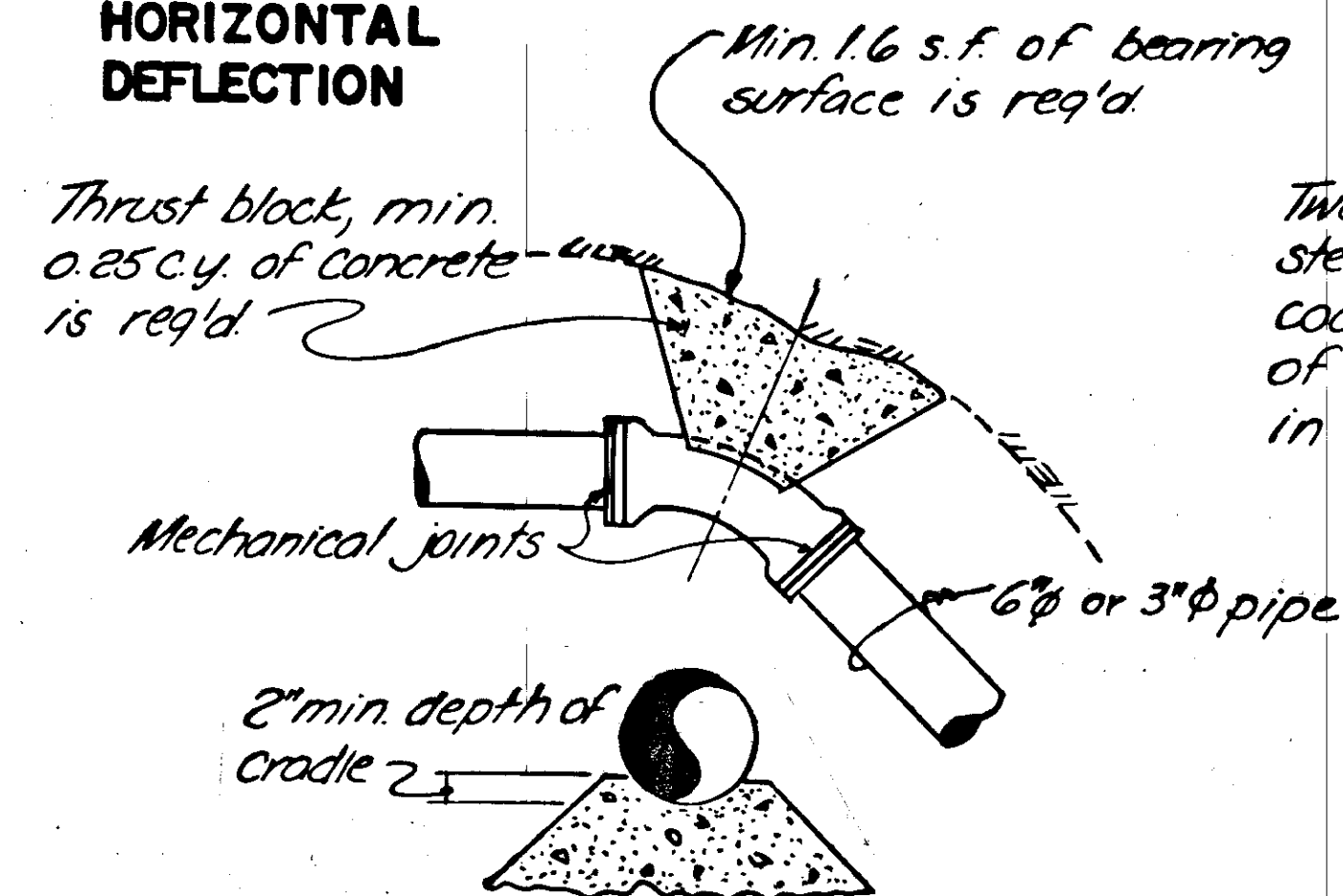


FITTING & CONNECTION DETAIL OF WATER & SEWER LINES @ NORTH BRIDGE APPROACH (N.T.S.)

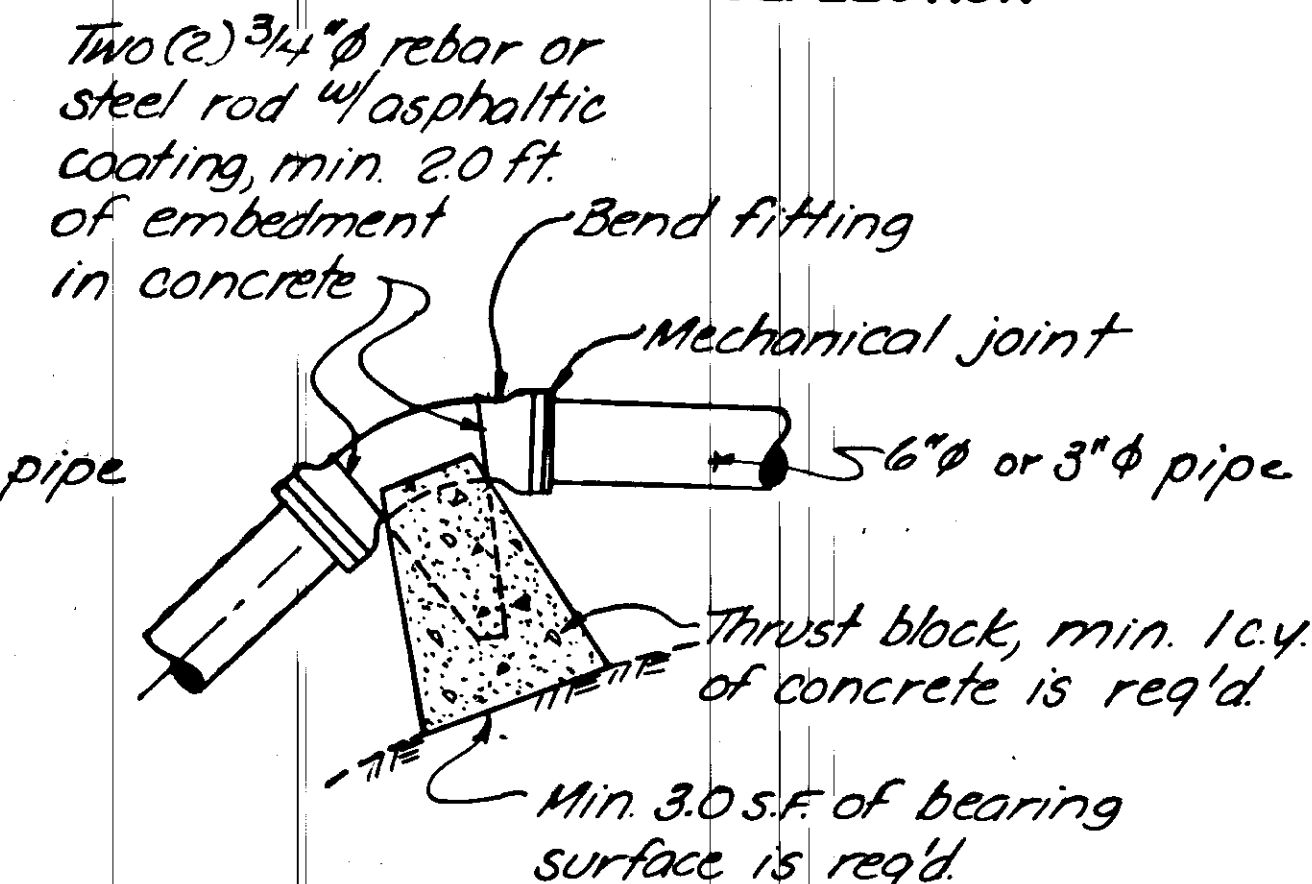


TYPICAL INSULATED PIPE JOINT AT BRIDGE

THRUST BLOCK - HORIZONTAL DEFLECTION



THRUST BLOCK - VERTICAL DEFLECTION

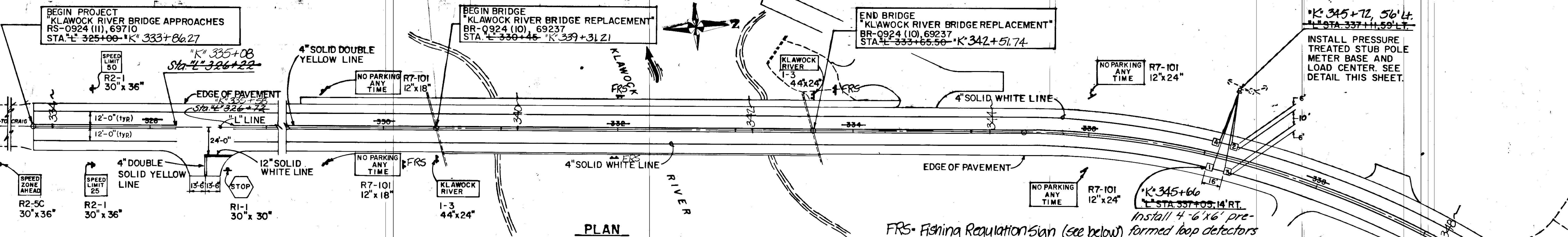


NOTES:

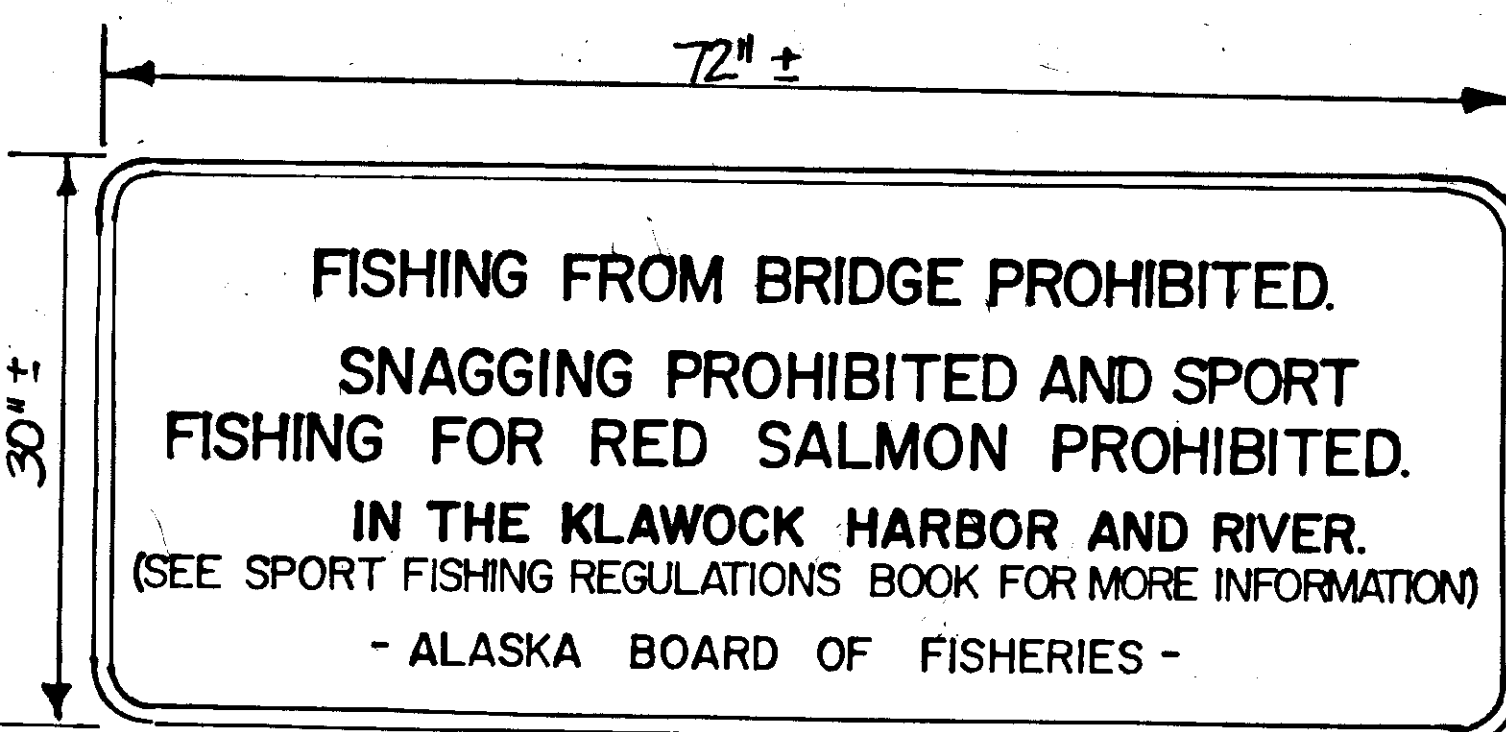
1. Thrust block shall be poured in place. Concrete shall be kept behind the bell of fitting so as not to obstruct the joint.
2. Material behind the Thrust block deemed inadequate by the Engineer shall be removed & replaced with crushed aggregate base course compacted to required density.
3. Concrete shall be Class "A" and minimum compressive strength of 2,500 p.s.i.
4. All ductile iron pipe shall be Class 52.
5. Water and sewer conduit not having 4 feet of cover shall be insulated with 4 feet wide insulation board, see special provision. Insulation board shall have a min. "R" value of 4 per inch of insulation.
6. Sewer pipe joints closer than 10 horizontal feet or running above water conduit shall be encased in a minimum of 4" thickness of concrete as shown on this sheet. Concrete encasement of joints shall be 18 inches on each side of the joint.

TYPICAL SECTION OF INSULATED PIPE

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Klawock River Bridge	
		WATER & SEWER RELOCATION DETAILS	
DESIGNED <i>KLM</i>	CHECKED <i>DDS</i>	DRAWN <i>SCALE</i>	DATE <i>8-89</i>
PROJECT NUMBER <i>BR-0924(10)/RS-0924(11)</i>		SHEET <i>12</i> OF <i>24</i>	

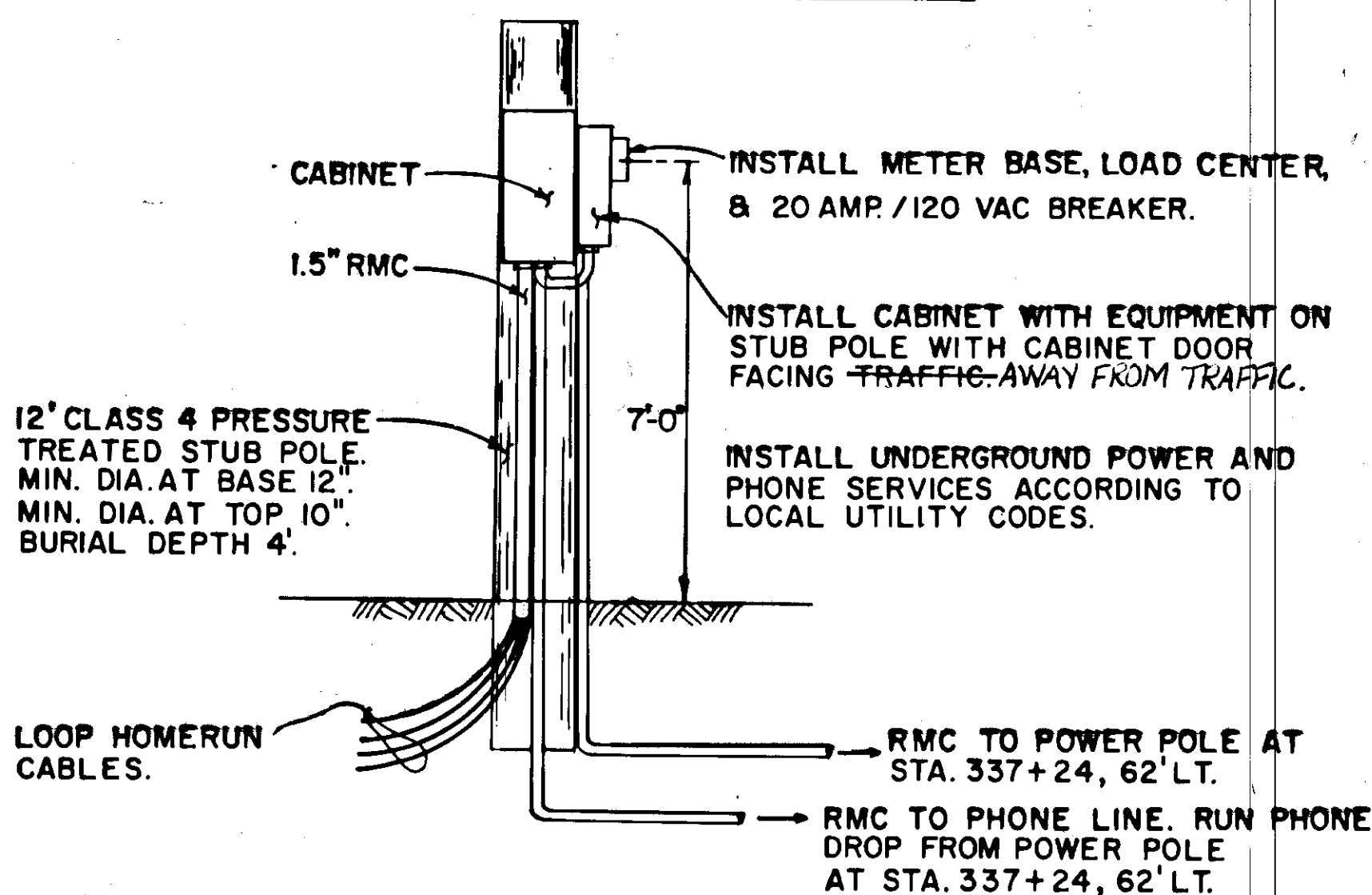


PLAN



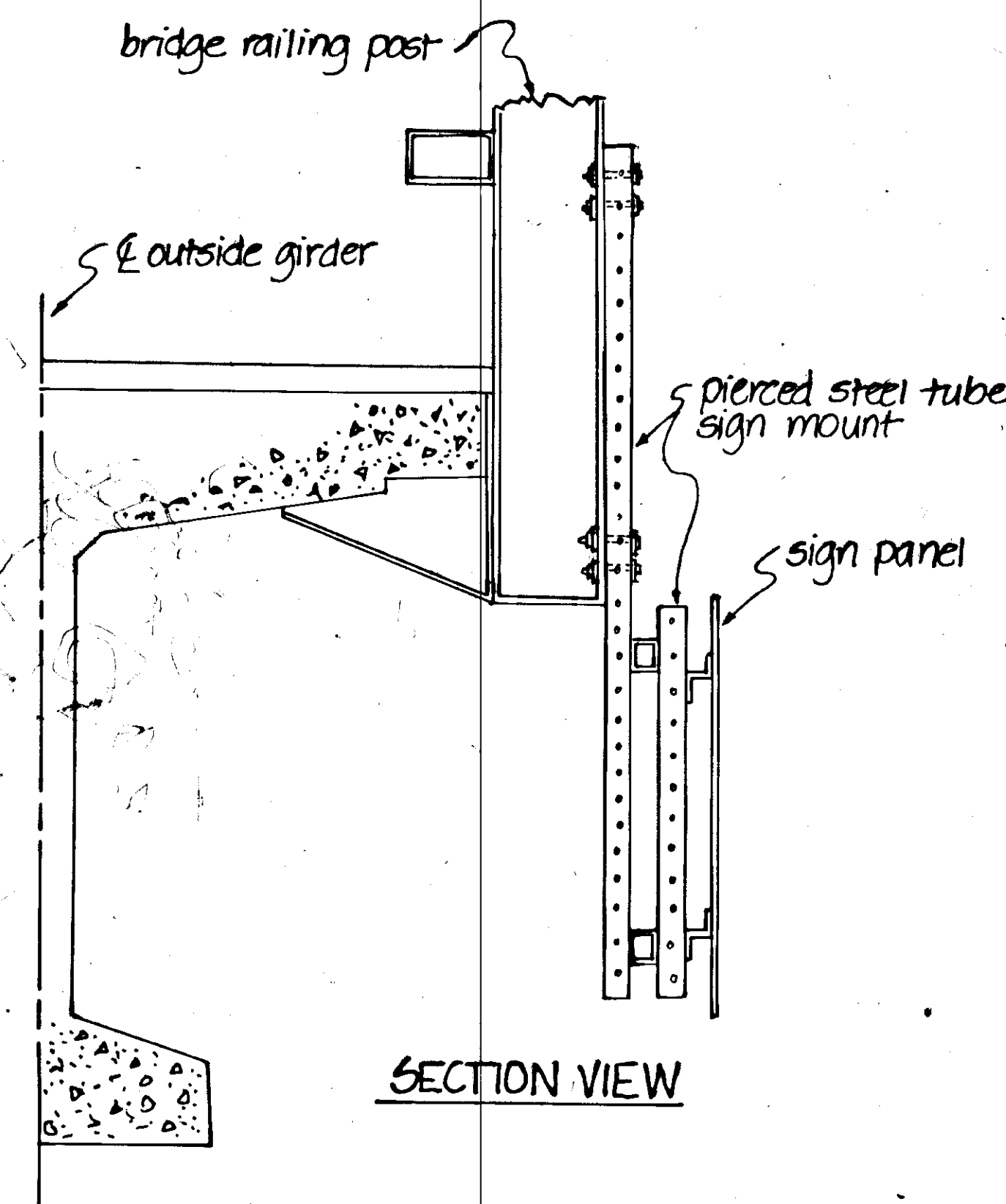
Panel: Sheet Aluminum, framed, no reflectivity
Color: Black legend & border, white background
Mounting: holes for two posts typical all panels
Embedment: PST sleeve-type soil embedment, two only (2" x 2" PST post) two only bridge mounting

FISHING REGULATION SIGN PANEL



PERMANENT LOOP-TRAFFIC COUNTER

"L" STA. 337+11.59' LT.
"K" 345+72, 56' LT.

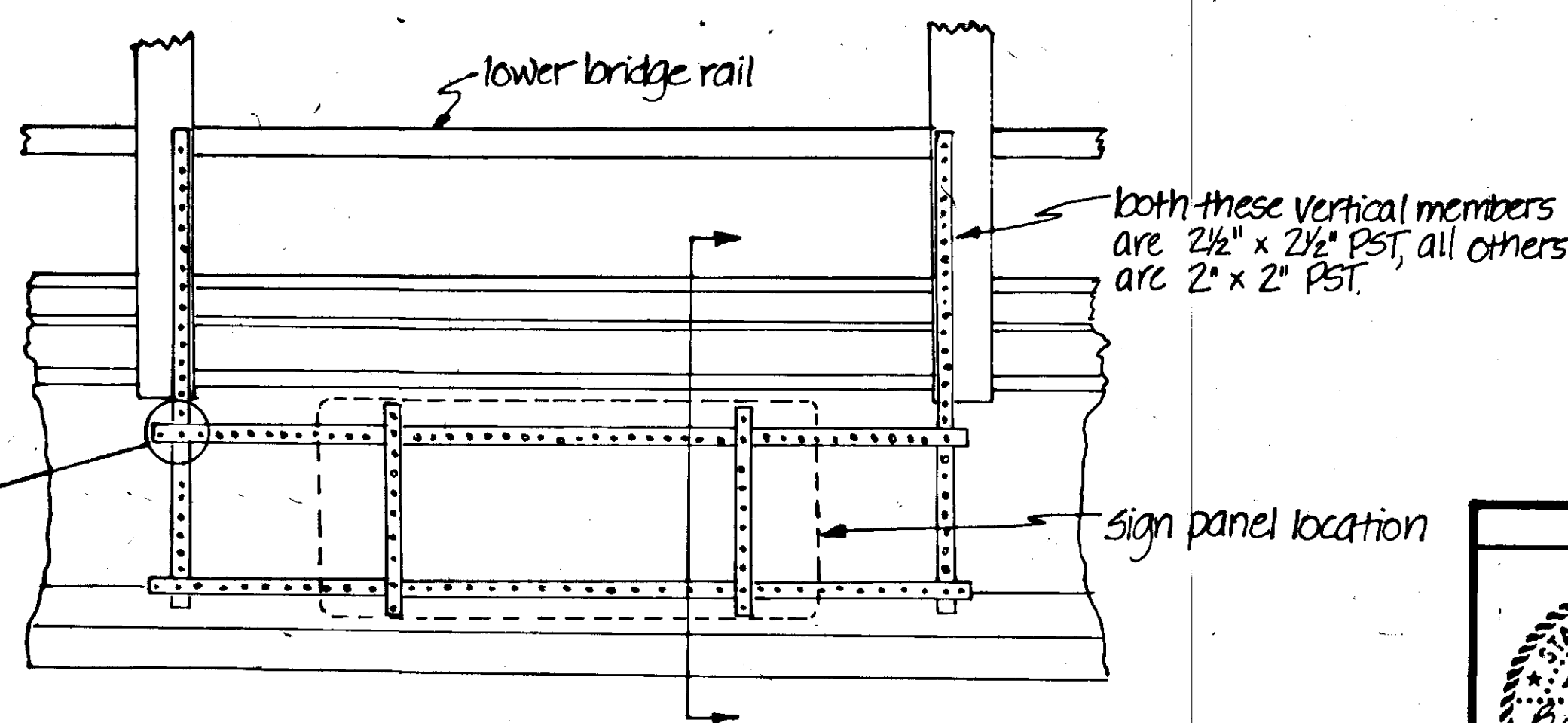


SECTION VIEW

Notes:

1. Mount frame members are 2" x 2" and 2 1/2" x 2 1/2" pierced steel tube, all pieces shall be galvanized.
2. All connecting bolts are 1/2" dia galvanized, upset thread after assembly.
3. One assembly shall be installed on each side of the bridge at center.

Change Order No. 6
Fishing Regulation Signs



ELEVATION VIEW

GENERAL NOTES

1. Traffic counter equipment & installation shall conform to Dept. of Transportation & Public Facilities Std. Dwg. T-33.01 & Std. Specs.
2. Install Two standard 120 VAC ground fault receptacles in the cabinet.
3. It shall be the contractor's responsibility to have the electrical & telephone services connected & operational. Fees for electrical & telephone services shall be billed to and paid by the contractor until the installation is complete & accepted by the Project Engineer. The elect & telephone billings will then be transferred to the State of Alaska, Traffic & Safety, P.O. Box 021467, Juneau, Alaska 99802-1467.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA 49TH Gary P. McCallon #CE 3771		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
SIGNING, STRIPING AND PERMANENT TRAFFIC COUNTER DETAILS			
DESIGNED C.P.	CHECKED J.A.	DRAWN W.A.	DATE 8-89
PROJECT NUMBER BR-0924(10)/RS-0924(11)	SHEET 13	OF 24	