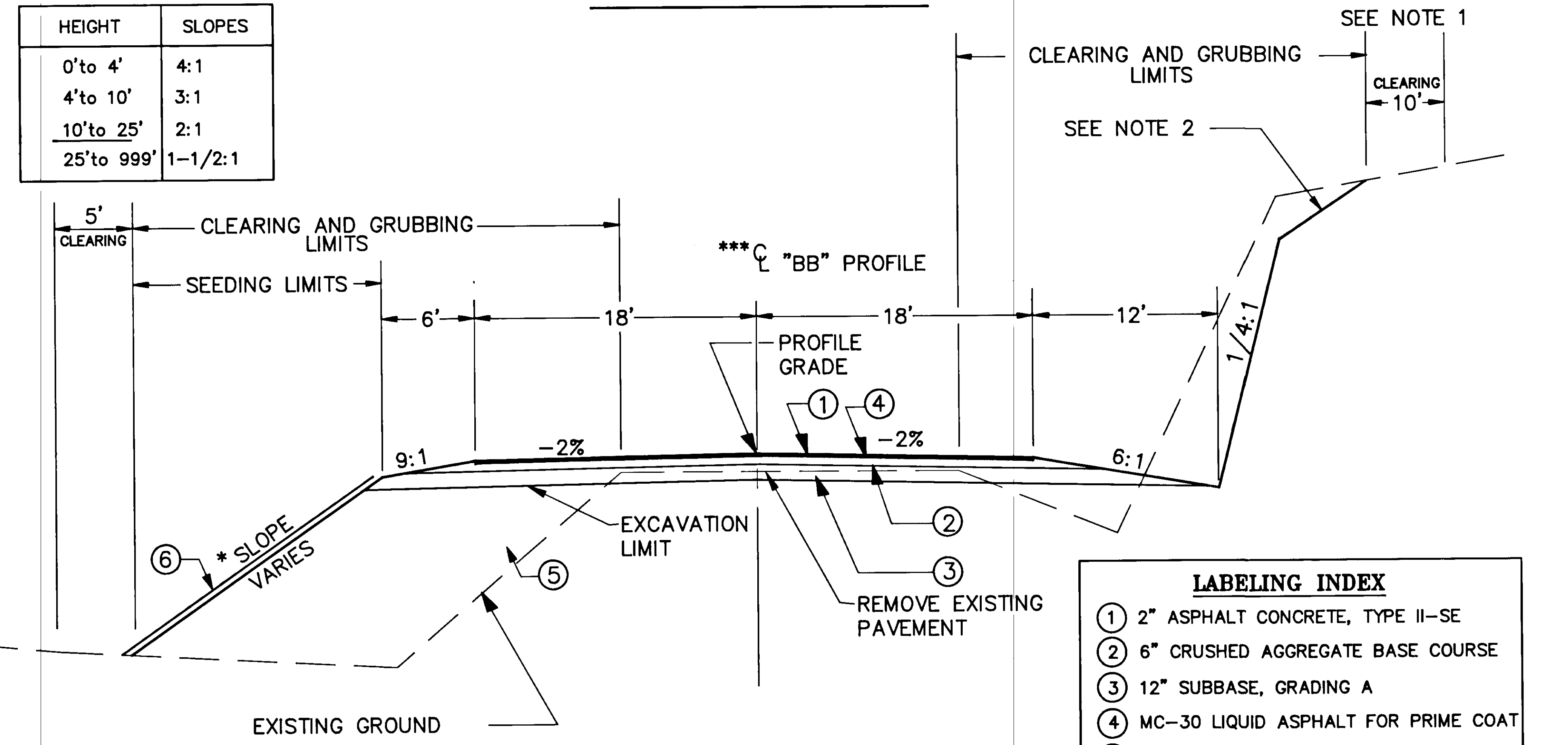


TYPICAL SECTION

**EXCEPTION: WILL BE 8' FROM STA. "LB" 12+00 TO "LB" 18+00

***TABLE OF FILL SLOPES**

HEIGHT	SLOPES
0'to 4'	4:1
4'to 10'	3:1
10'to 25'	2:1
25'to 999'	1-1/2:1



TYPICAL ROCK CUT SECTION

LABELING INDEX

- ① 2" ASPHALT CONCRETE, TYPE II-SE
- ② 6" CRUSHED AGGREGATE BASE COURSE
- ③ 12" SUBBASE, GRADING A
- ④ MC-30 LIQUID ASPHALT FOR PRIME COAT
- ⑤ BORROW, TYPE A OR USEABLE UNCLASSIFIED EXCAVATION
- ⑥ 4" TOPSOIL

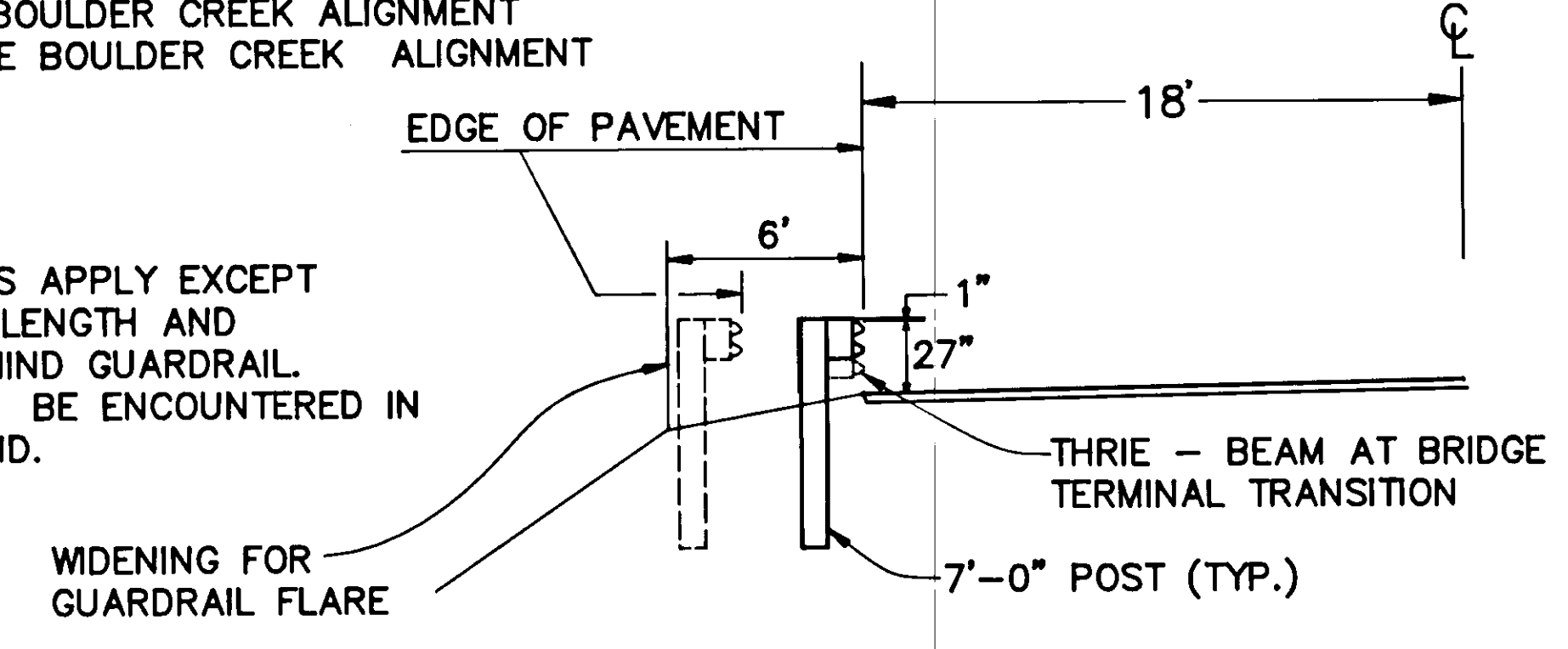
CONTROL POINT SUMMARY

CONTROL POINT	TYPE	STATION***	OFFSET	COORDINATES		ELEVATION
				N	E	
HH-35A	REBAR			694,137.807	529,174.422	455.75
HH-36	REBAR	"BB" 40+84.93	27.55' RT	693,805.319	530,796.488	484.08
HH-37	PK NAIL	"BB" 34+90.61	1.92' LT	693,611.992	531,359.045	492.16
33 MILE	USC & GS MON.			692,782.552	534,355.587	414.85
HH-42A	REBAR			692,250.492	541,215.581	371.99
HH-43A	REBAR	"LB" 20+18.02	8.18' LT	691,789.515	542,728.376	415.66
HH-44A	REBAR	"LB" 14+05.74	11.69' RT	691,702.638	543,331.501	407.14
HH-45A	REBAR			691,754.928	544,829.880	365.39

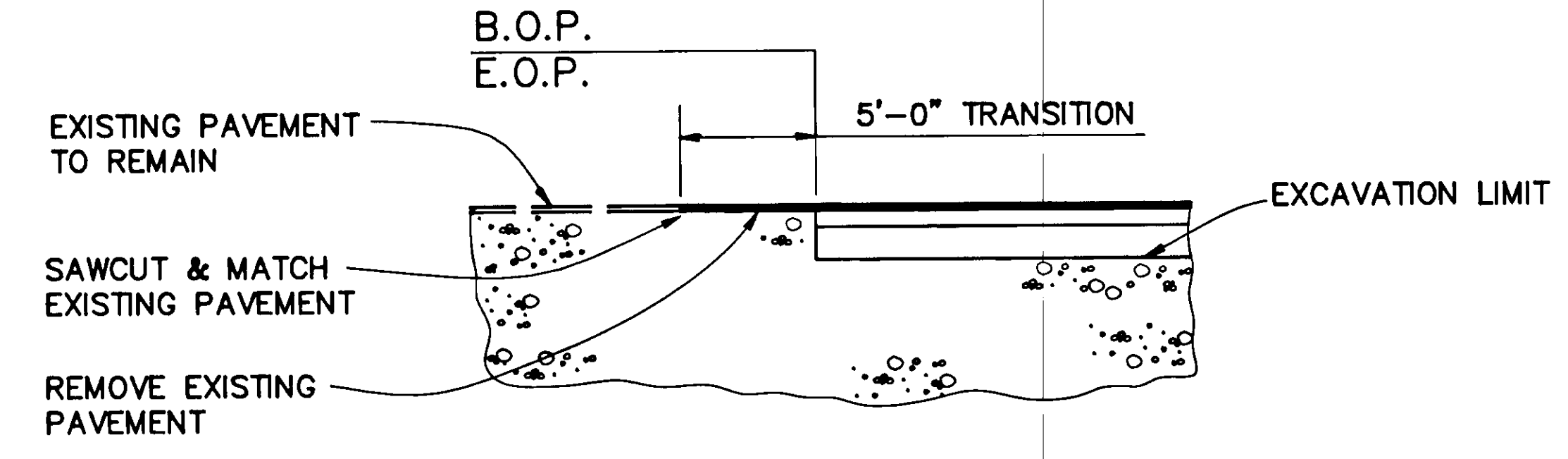
*** "BB" = BIG BOULDER CREEK ALIGNMENT
 "LB" = LITTLE BOULDER CREEK ALIGNMENT

NOTE:

STANDARD DWGS APPLY EXCEPT FOR THE POST LENGTH AND CLEARANCE BEHIND GUARDRAIL. BOULDERS MAY BE ENCOUNTERED IN EXISTING GROUND.



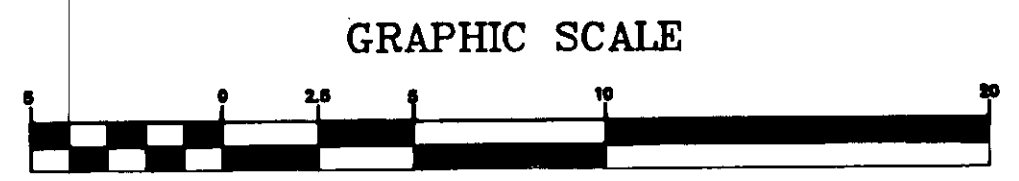
GUARDRAIL TYPICAL SECTION



PAVEMENT MATCH JOINT DETAIL

GENERAL NOTES:

1. CLEARING LIMITS SHALL EXTEND 10' BEYOND CUT SLOPE LIMITS AND 5' BEYOND FILL SLOPE LIMITS, OR TO THE RIGHT-OF-WAY EASEMENT, OR PERMIT WHICHEVER IS LESS.
2. SLOPE SOILS OR LOOSE ROCK TO A MIN. OF 1.5:1 AND TRANSITION INTO ROCK CUT.
3. TRANSITION 50' FROM ONE SECTION TO ANOTHER FOR FILL AND CUT SECTIONS.
4. SUPERELEVATION SHALL BE ROTATED ABOUT CENTERLINE.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

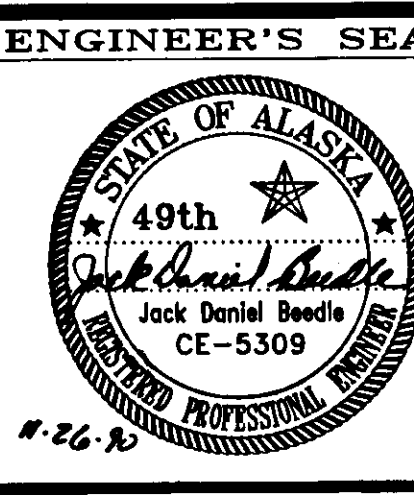
RECORD OF REVISIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

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

HAINES BRIDGES
TYPICAL SECTION
 F-095-6(11) PROJECT #70226

DESIGNED BY:	K.M.	DATE:	9/90
DRAWN BY:	AUTOCADD/M.B.	CHECKED BY:	J.D.B.
SHEET 2 OF 28		#26-2	



ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	ROADWAY	BRIDGES	TOTAL
09 (1)	Petroleum Adjustment	C.S.	All Req'd	All Req'd	All Req'd
20 (1)	DBE Adjustment	C.S.	All Req'd	All Req'd	All Req'd
01 (3A)	Clearing and Grubbing	Acre	5.1		5.1
202 (1)	Removal of Structures & Obstructions	L.S.	All Req'd	All Req'd	All Req'd
202 (2)	Removal of Pavement	S.Y.	8,280		8,280
202 (10)	Single Mailbox Installation	Ea.	1		1
203 (3)	Unclassified Excavation	C.Y.	7,147	5,653	12,800
203 (6)	Borrow	Ton	2,600		2,600
301 (1)	Crushed Aggregate Base Course	Ton	4,925		4,925
304 (1)	Subbase, Grading A	Ton	10,300		10,300
401 (1)	Asphalt Concrete, Type II - SE	Ton	1593.6	90.4	1684
401 (2)	AC-5 Asphalt Cement	Ton	94.6	5.4	100
402 (1)	CSS-1 Asphalt for Tack Coat	Ton		.3	.3
403(1)	MC-30 Liquid Asphalt for Prime Coat	Ton	12.7		12.7
501 (1)	Class A Concrete	L.S.		All Req'd	All Req'd
501 (7)	Precast Wall Panels	L.S.		All Req'd	All Req'd
501 (8)	Precast Deadman Anchors	L.S.		All Req'd	All Req'd
502 (1A)	Prestressed Concrete Structural Members (119')	Ea.		6	6
502 (1B)	Prestressed Concrete Structural Members (79'-4")	Ea.		6	6
503 (1)	Reinforcing Steel	L.S.		All Req'd	All Req'd
504 (1)	Structural Steel, Furnished, Fabricated, & Erected	L.S.		All Req'd	All Req'd
505 (5A)	Structural Steel HP 12x74 Piles, Furnished	L.F.		682	682
505 (5B)	Structural Steel HP 14x117 Piles, Furnished	L.F.		1,044	1,044
505 (6A)	Structural Steel HP 12x74 Piles, Driven	Each		16	16
505 (6B)	Structural Steel HP 14x117 Piles, Driven	Each		30	30
505(12)	Drilled Pile Socket	L.F.		175	175
507 (1)	Metal Bridge Railing	L.F.		400	400
503 (1-30)	30" Corrugated Steel Pipe	L.F.	16		16
506 (5)	Removal & Disposal of Guardrail	L.F.	1,076		1,076
506 (6)	End Anchorages	Each	8		8
506 (8)	Bridge Approach Guardrail	L.F.	550		550
511 (1A)	Riprap, Class II	C.Y.		2,200	2,200
511 (1B)	Riprap, Class III	C.Y.		2,600	2,600
511 (3)	Fisheries Enhancement Stone	Each		16	16
515 (1)	Standard Signs	S.F.	58.6		58.6
515 (7)	Salvage Signs	Each	12		12
518 (1)	Seeding	Acre	2.30		2.30
520 (1)	Top Soil	S.Y.	10,732		10,732
531 (2)	Geotextile, Riprap Liner	S.Y.		3,500	3,500
540 (1)	Mobilization and Demobilization	L.S.	All Req'd	All Req'd	All Req'd
541 (1)	Temporary Erosion & Pollution Control	C.S.	All Req'd	All Req'd	All Req'd
542 (1)	Construction Surveying	L.S.	All Req'd	All Req'd	All Req'd
543 (2)	Traffic Maintenance	L.S.	All Req'd	All Req'd	All Req'd
543 (3)	Permanent Construction Signing	Ea./day	600	600	1,200
543 (4)	Construction Sign	Ea./day	500	1,500	2,000
543 (5)	Type II Barricade	Ea./day	960		960
543 (6)	Type III Barricade	Ea./day		760	760
543 (7)	Traffic Cone	Ea./day	2,700	6,300	9,000
543 (13)	Temporary Pavement Marking	Sta.	32.4		32.4
543 (15)	Flagging	Hour	2,500		2,500
543 (24)	Temporary Bridges	L.S.		All Req'd	All Req'd
545 (1)	Training Program	Man-Hr.		500	500
570 (1)	Painted Traffic Markings	L.S.	All Req'd	All Req'd	All Req'd

SIGN SUMMARY

STATION	OFFSET		CODE NO.	LEGEND	AREA S.F.	NO. OF POSTS	FACING TRAFFIC	SIZE	REMARKS
	LT.	RT.							
"LB" 18+10		27	I-3	Little Boulder Creek	9.3	2	West	24"x 56"	* Alaska Sign Design Specifications Use ASDS*6" Series "B"
"LB" 19+90	27		I-3	Little Boulder Creek	9.3	2	East	24"x 56"	Use ASDS*6" Series "B"
"BB" 36+00		27	I-3	Big Boulder Creek	8.0	2	West	24"x 48"	Use ASDS*6" Series "B"
"BB" 37+45	27		I-3	Big Boulder Creek	8.0	2	East	24"x 48"	Use ASDS*6" Series "B"
"LB" 18+60	20	20	OM3-L & R		6.0	2	East	36"x 12"(2)	Object Markers at Left and Right of Bridge
"LB" 19+40	20	20	OM3-L & R		6.0	2	West	36"x 12"(2)	Object Markers at Left and Right of Bridge
"BB" 35+80	20		OM3-L		3.0	1	East	36"x 12"	Object Marker at Left of Bridge
"BB" 36+16		20	OM3-R		3.0	1	East	36"x 12"	Object Marker at Right of Bridge
"BB" 37+04	20		OM3-L		3.0	1	West	36"x 12"	Object Marker at Left of Bridge
"BB" 37+40		20	OM3-R		3.0	1	West	36"x 12"	Object Marker at Right of Bridge

EXISTING SIGN SUMMARY

STATION	OFFSET		CODE NO.	LEGEND	REMARKS
	LT	RT			
"LB" 17+90		30	I-3	Little Boulder Creek	
"LB" 19+95	14		I-3	Little Boulder Creek	
"BB" 36+10		37	I-3	Big Boulder Creek	
"BB" 37+92	14		I-3	Big Boulder Creek	
Big Boulder Bridge			OM3-L & R		4 Object Markers
Little Boulder Bridge			OM3-L & R		4 Object Markers

MONUMENT SUMMARY

STATION	OFFSET			REMARKS
	LT	CL	RT	
"LB" 18+60	17'			On CL of Abutment
"LB" 19+40	17'			On CL of Abutment
"BB" 35+83	17'			On CL of Abutment
"BB" 37+03	17'			On CL of Abutment

GUARDRAIL REMOVAL SUMMARY

STATION TO STATION	OFFSET		LENGTH	REMARKS
	LT	RT		
"LB" 12+77 - "LB" 18+73			596	X
"LB" 17+95 - "LB" 18+73			78	X
"LB" 19+30 - "LB" 19+92			62	X
"LB" 19+30 - "LB" 20+06			76	X
"BB" 35+54 - "BB" 36+32			78	X
"BB" 35+78 - "BB" 36+32			54	X
"BB" 37+13 - "BB" 37+67			54	X
"BB" 37+13 - "BB" 37+91			78	X

GUARDRAIL SUMMARY

STATION TO STATION	OFFSET		LENGTH	REMARKS
	LT	RT		
"LB" 17+97.8 - "LB" 18+60.3	X		68.75	62.5
"LB" 17+97.8 - "LB" 18+60.3		X	68.75	62.5
"LB" 19+ 40.1 - "LB" 20+02.6	X		68.75	62.5
"LB" 19+ 40.1 - "LB" 20+02.6		X	68.75	62.5
"BB" 35+19.5 - "BB" 35+82.0	X		68.75	62.5
"BB" 35+55.5 - "BB" 36+18		X	68.75	62.5
"BB" 37+02 - "BB" 37+64.5	X		68.75	62.5
"BB" 37+38 - "BB" 38+00.5		X	68.75	62.5

BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
203 (6)	1.80 tons per cubic yard
301 (1)	1.96 tons per cubic yard
304 (1)	1.87 tons per cubic yard
401 (1)	116 lbs. per sq. yard per inch deep
401 (2)	6% of Item 401 (1)
402 (1)	Application rate .10 gal. per sq. yard, 253 gal. per ton
403(1)	Application rate .25 gal. per sq. yard, 256 gal. per ton

PIPE SUMMARY

PIPE	STATION	REMOVE	INSTALL	INLET INVERT	OUTLET INVERT	REMARKS
P-1	"LB" 14+00		16'x 30"	390.0	387.1	Extend Existing 30" Pipe

MAILBOX INSTALLATION

STATION	OFFSET	REMARKS
"LB" 21+25	23' RT	

ENGINEER'S SEAL



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

HAINES BRIDGES
ESTIMATE OF QUANTITIES AND SUMMARY SHEET
F-095-6(11) PROJECT #70226

DESIGNED BY: K.M.
DRAWN BY: AUTOCADD/R.S.
CHECKED BY: J.D.B.
PROJECT NO. F-095-6(11)
DATE: 9/90
SHEET 3 OF 28

RECORD OF REVISIONS

DATE	DESCRIPTION OF CHANGE

CURVE DATA
 $\Delta = 01^{\circ}51'00''$
 $R = 7639.44'$
 $T = 123.34'$
 $L = 246.65'$
 $D = 00^{\circ}45'00''$

CURVE DATA
 $\Delta = 01^{\circ}30'51''$
 $R = 7639.44'$
 $T = 100.96'$
 $L = 201.90'$
 $D = 00^{\circ}45'00''$

CURVE DATA
 $\Delta = 01^{\circ}01'41''$
 $R = 11459.16'$
 $T = 102.80'$
 $L = 205.60'$
 $D = 00^{\circ}30'00''$

CURVE DATA
 $\Delta = 02^{\circ}03'15''$
 $R = 7639.44'$
 $T = 136.95'$
 $L = 273.87'$
 $D = 00^{\circ}45'00''$

BASIS OF CONTROL

The Basis of Horizontal Control is the bearing between control points HH-36 and HH-37, calculated at S 71°02'04" E.

The Basis of Vertical Control is the calculated elevation of control point HH-37 given as 492.16' M.S.L.

B.O.P. STA. "BB" 28+00
 BEGIN TRANSITION

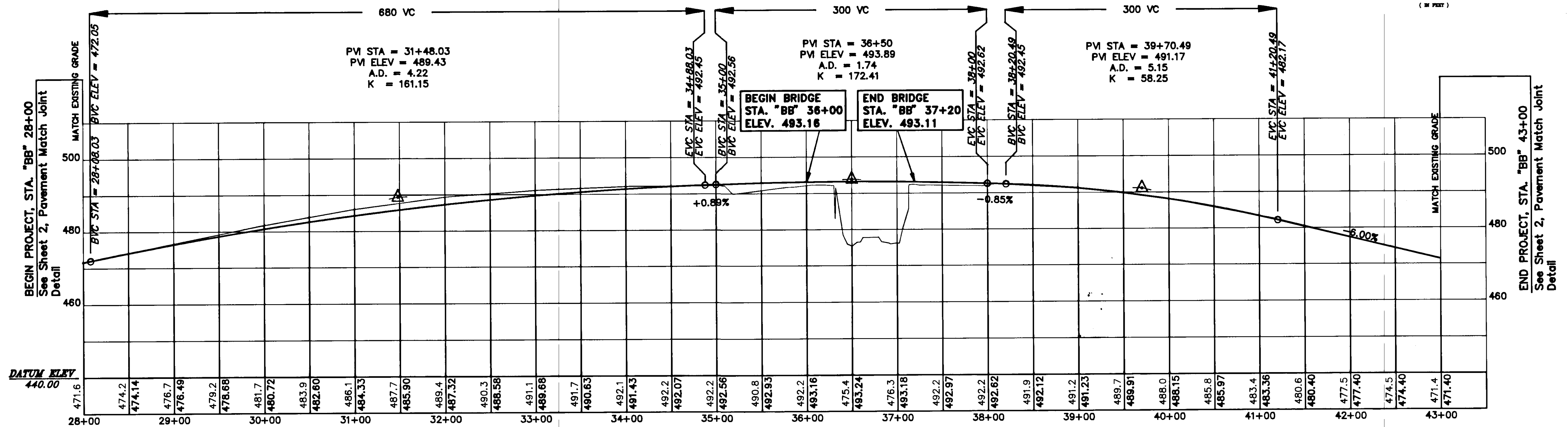
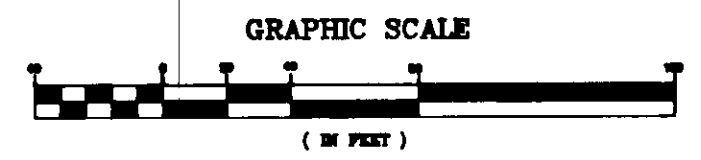
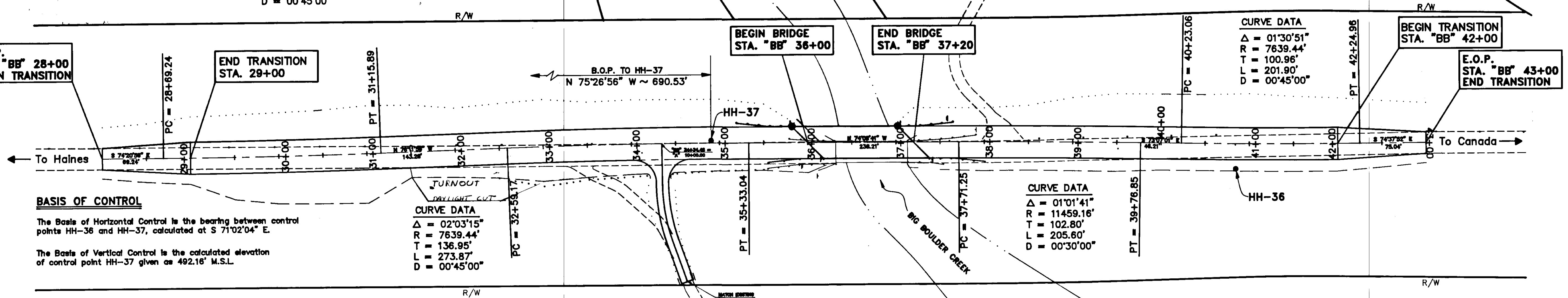
END TRANSITION STA. 29+00

BEGIN BRIDGE STA. "BB" 36+00

END BRIDGE STA. "BB" 37+20

BEGIN TRANSITION STA. "BB" 42+00

E.O.P. STA. "BB" 43+00
 END TRANSITION



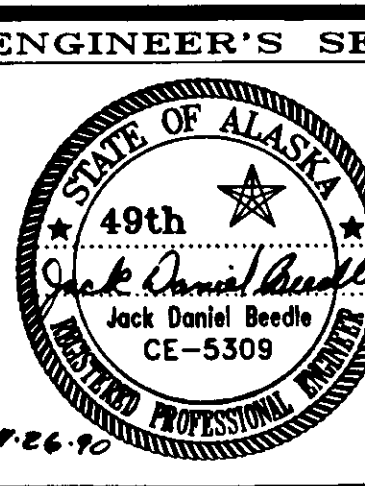
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

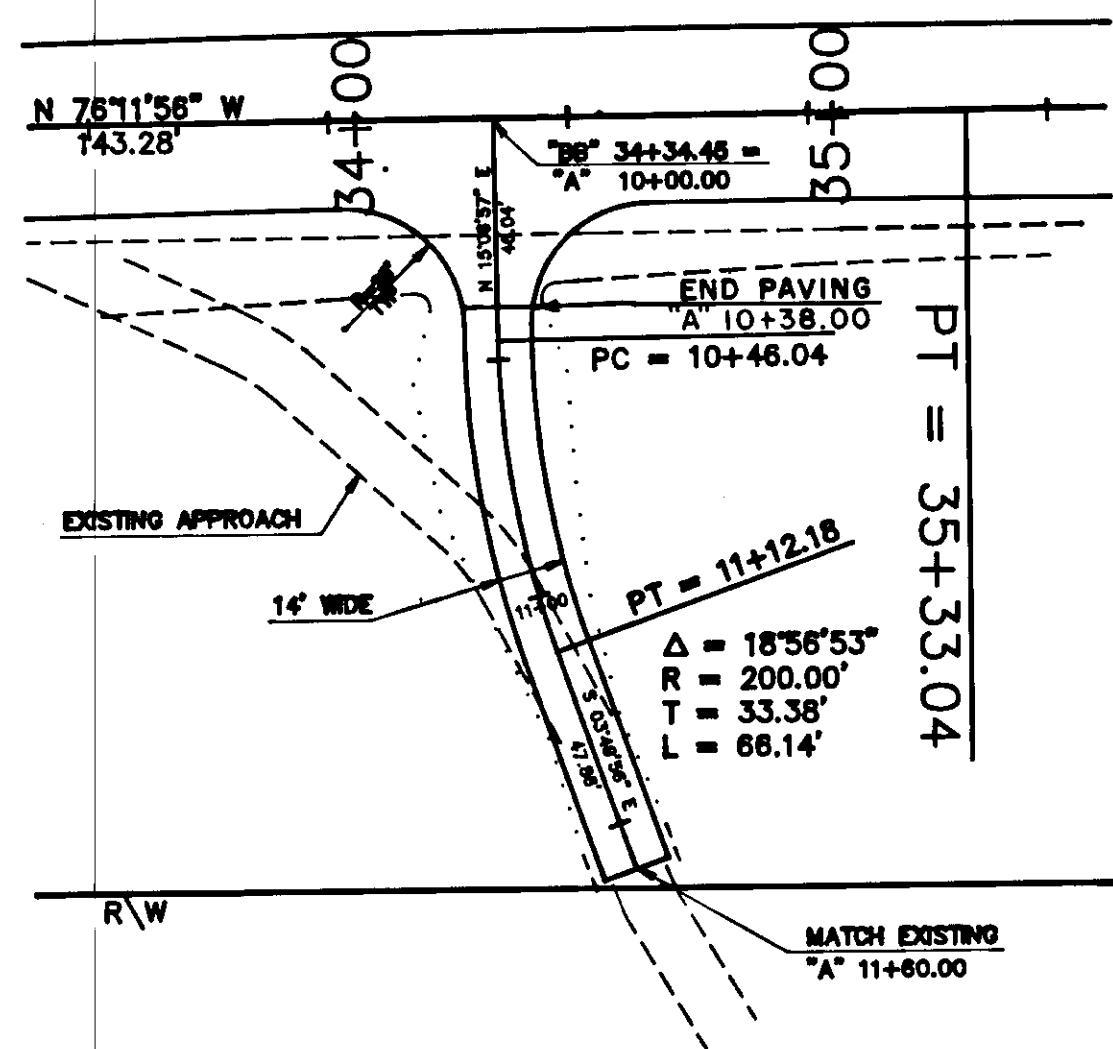
BY:	DATE:	DESCRIPTION OF CHANGE:

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

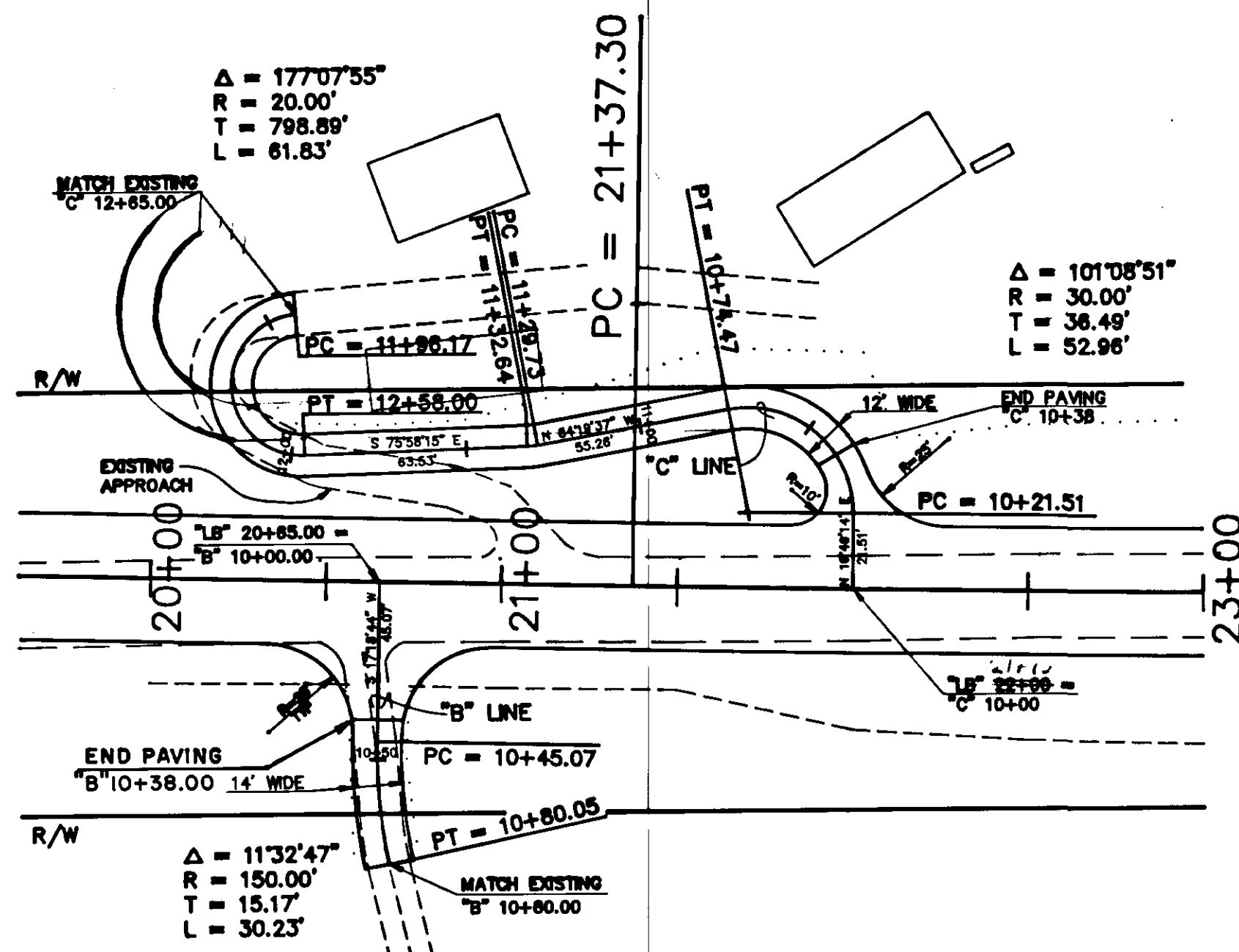
BIG BOULDER CREEK
 PLAN & PROFILE
 F-095-6(11) BRIDGE #0745 PROJECT #70226

DESIGNED BY:	K.M.	DATE:	9/90
DRAWN BY:	AUTOCADD/K.M.	CHECKED BY:	J.D.B.
SHEET 5 OF 28			

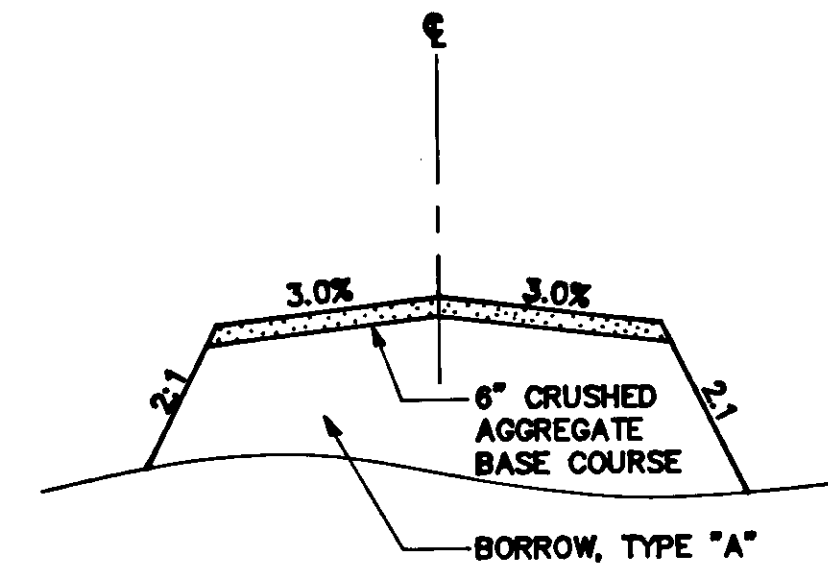




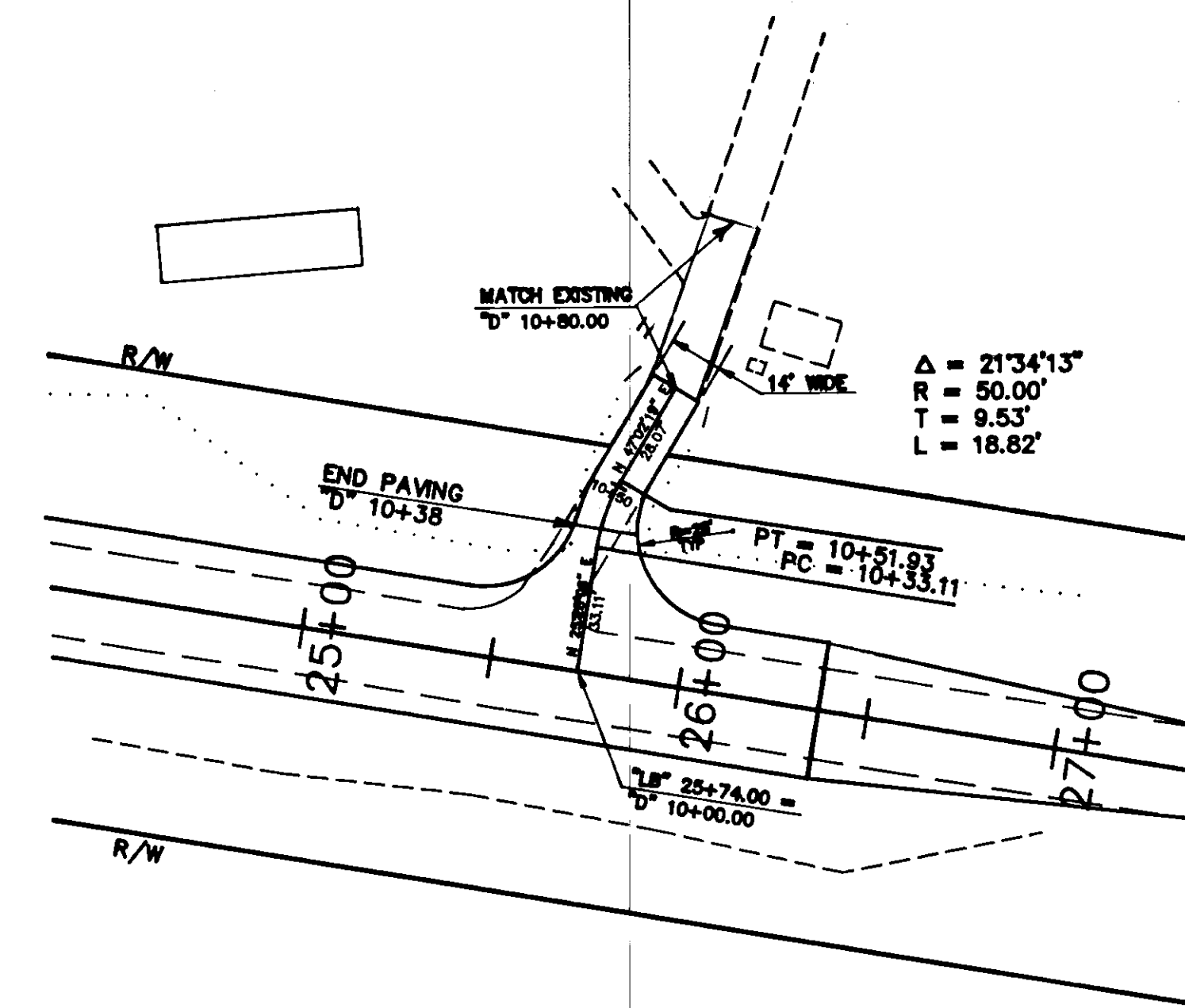
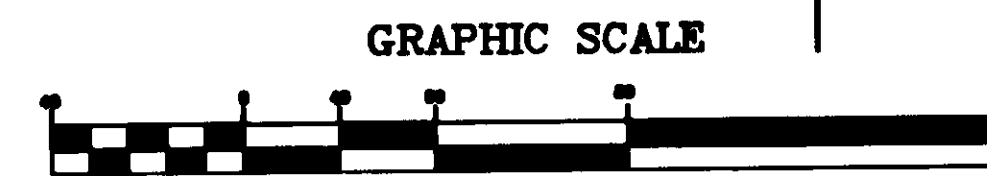
"A-Line"
Plan



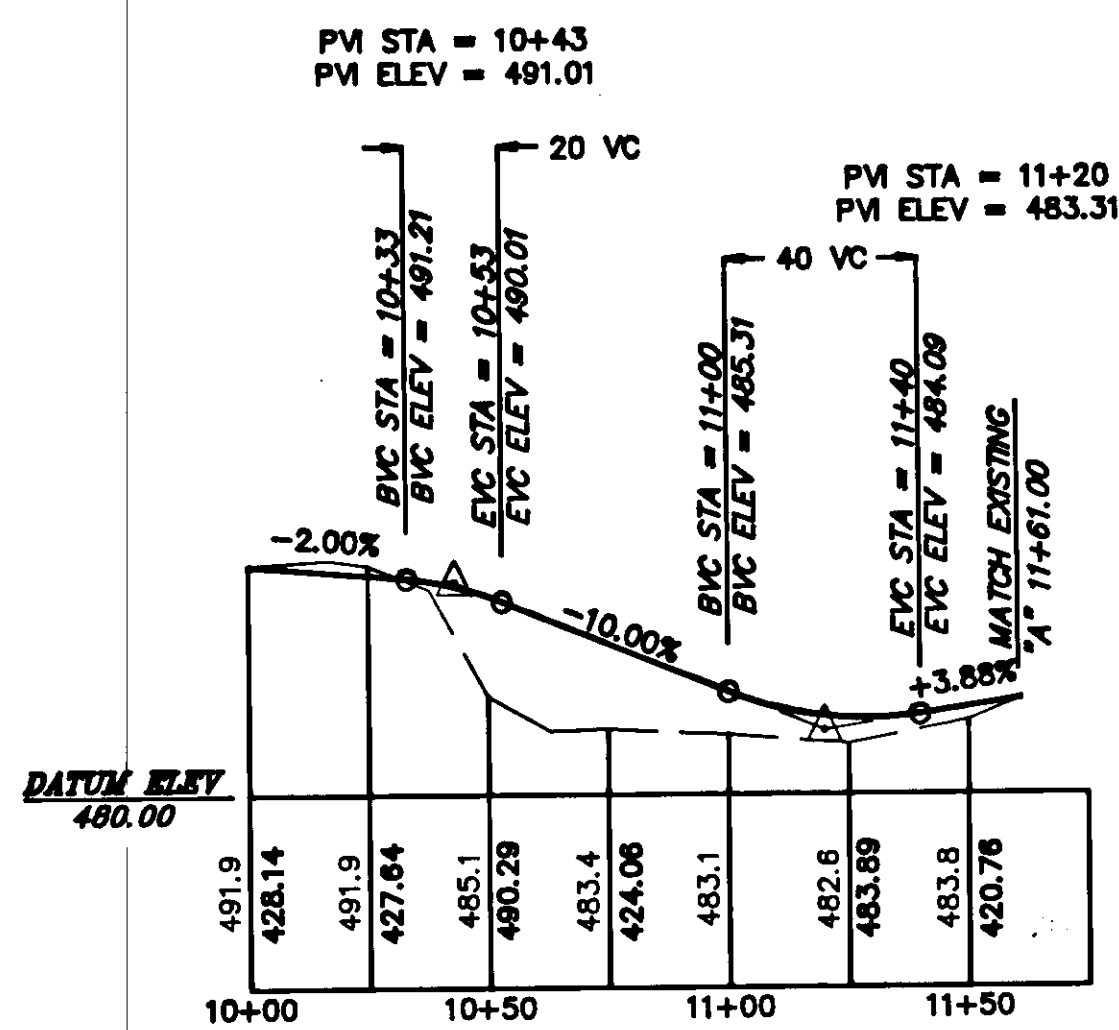
"B & C-Line"
Plan



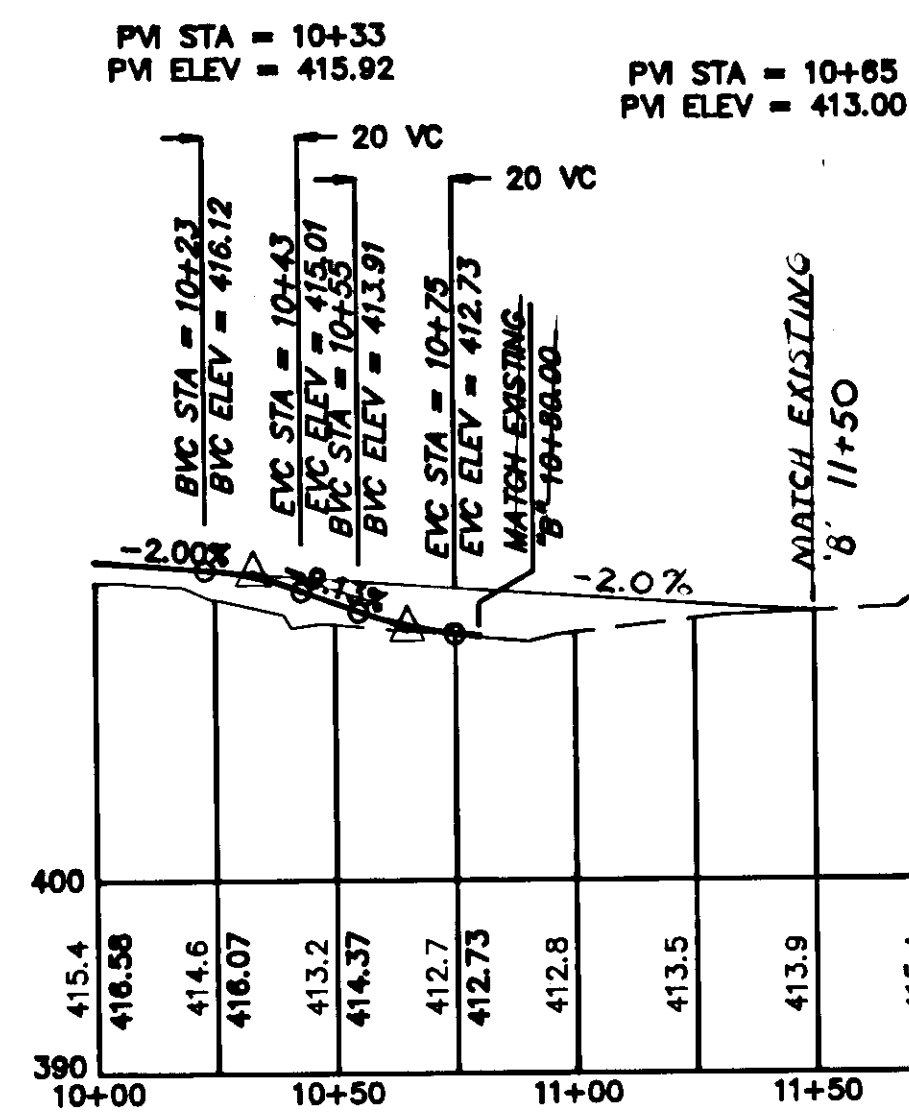
Typical Approach
Plan



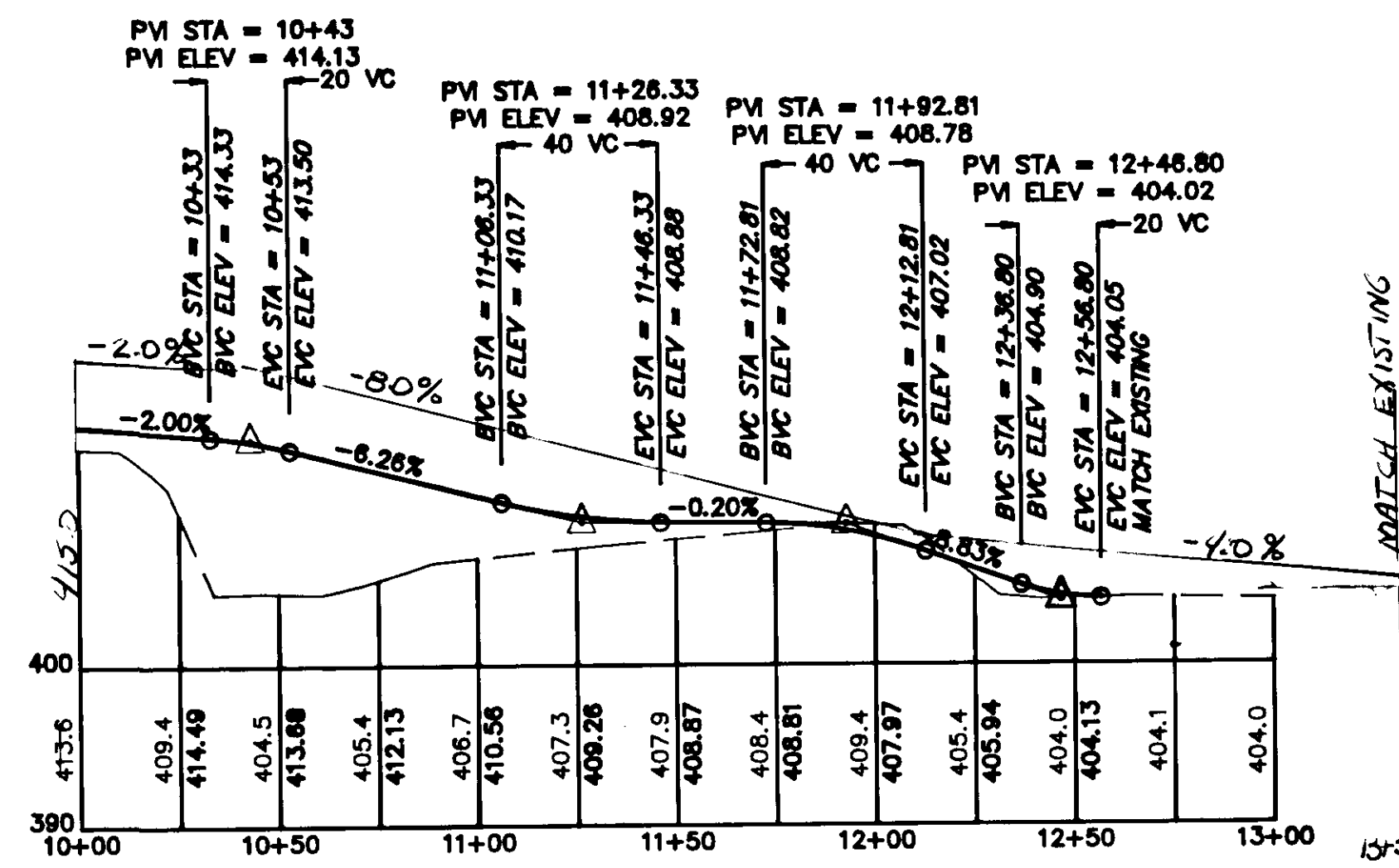
"D-Line"
Plan



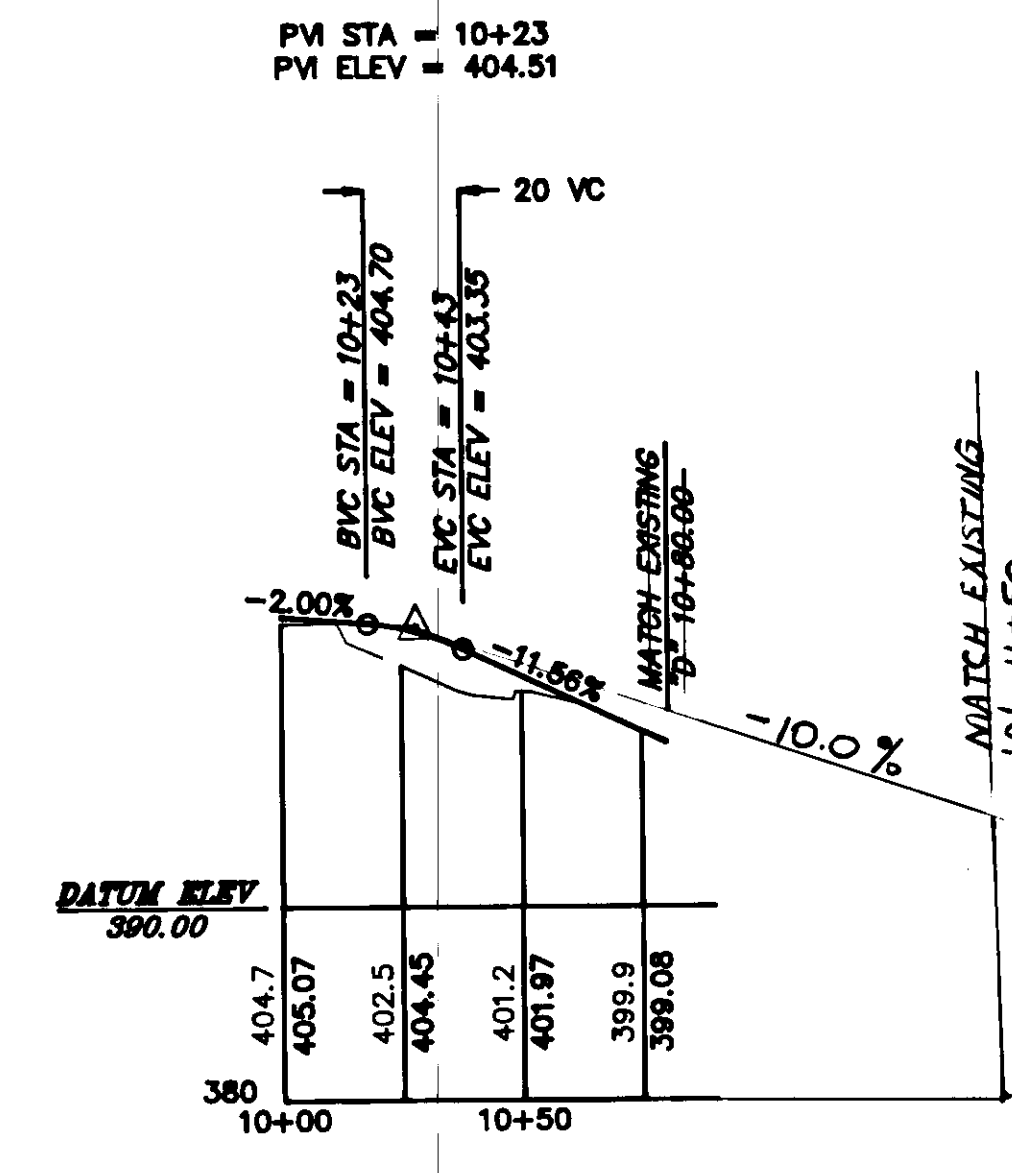
"A-Line"
Profile



"B-Line"
Profile



"C-Line"
Profile



"D-Line"
Profile

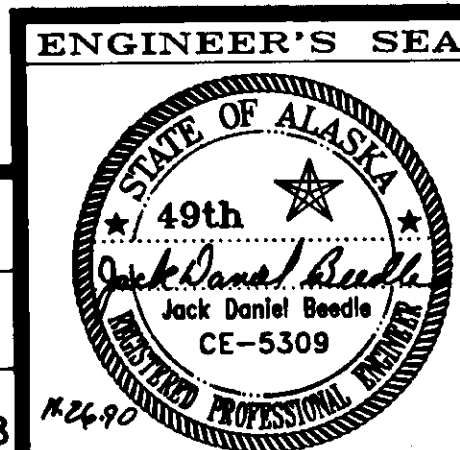
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

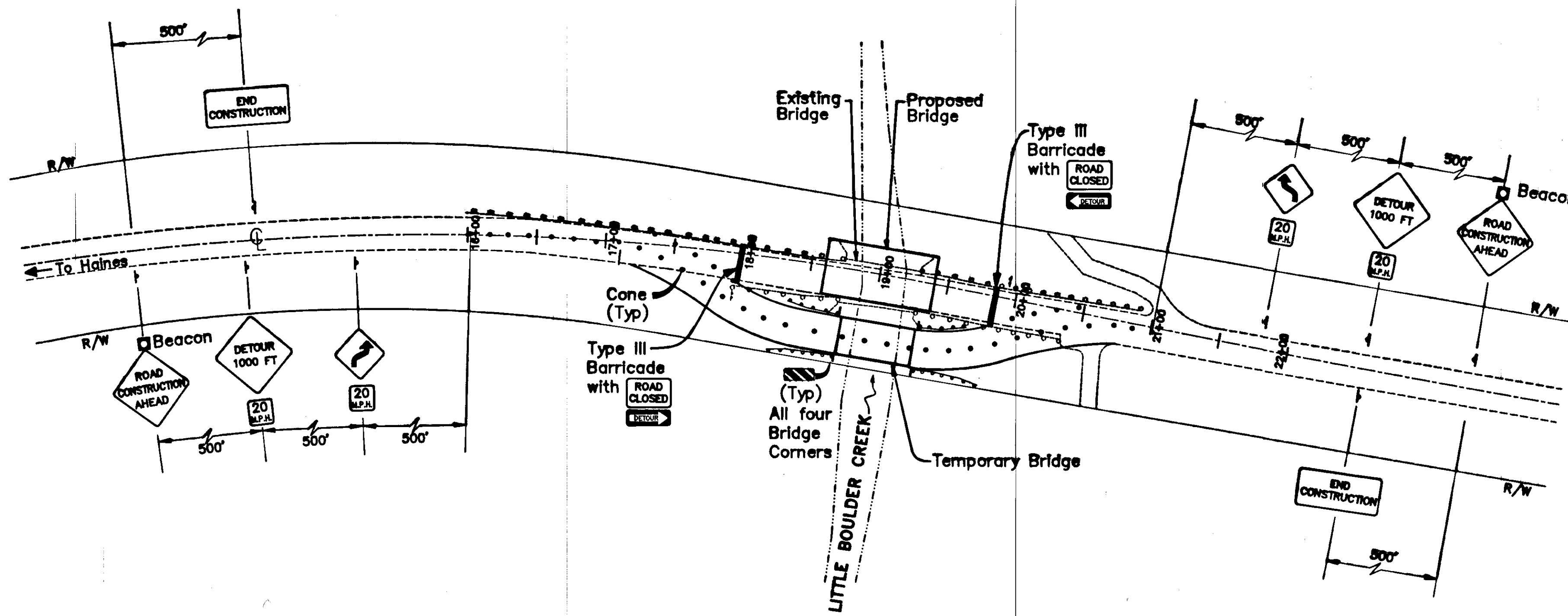
DATE:	DESCRIPTION OF CHANGE:

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

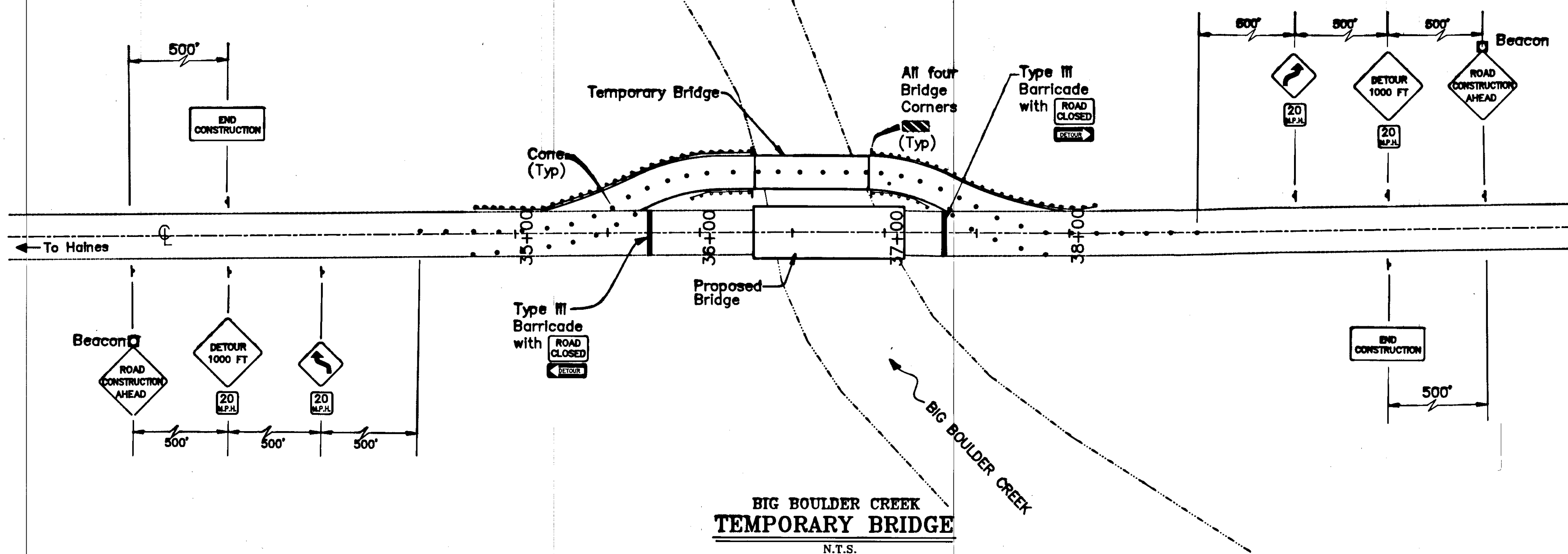
HAINES BRIDGES
APPROACH DETAILS
F-095-6(11) PROJECT #70226

DESIGNED BY:	K.M.	DATE:	9/90
DRAWN BY:	AUTOCADD/R.S.	CHECKED BY:	J.D.B.
SHEET 6 OF 28			





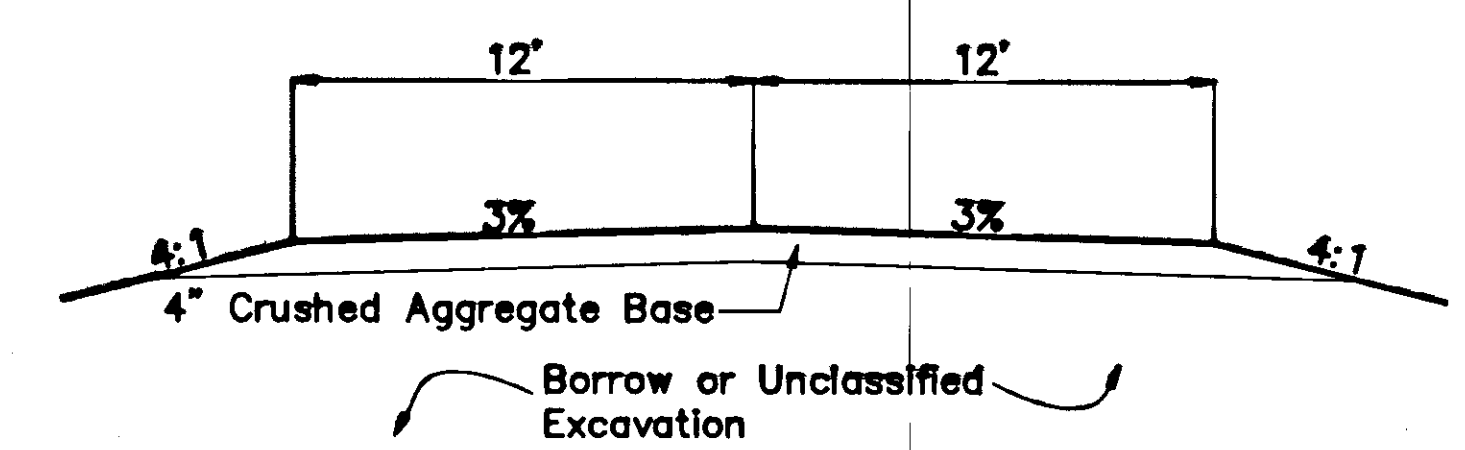
**LITTLE BOULDER CREEK
TEMPORARY BRIDGE**
N.T.S.



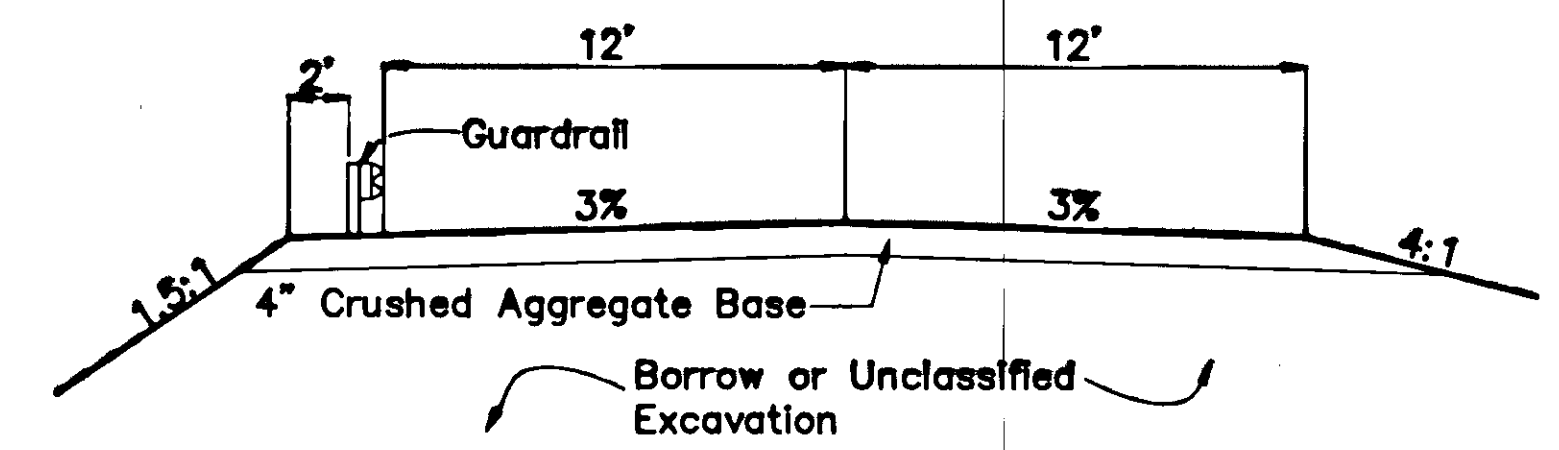
**BIG BOULDER CREEK
TEMPORARY BRIDGE**
N.T.S.

NOTES:

1. Minimum lane width shall be 12'.
2. Temporary Bridges shall be built within Right of Way.
3. Minimum clear zone shall be 11'.
4. The minimum curve radius shall be 150'.
5. Use G4S or G4W Standard Guardrail transitions on temporary bridges.
6. Temporary bridge rail to be approved by Engineer.
7. Existing guardrail shall not be removed between Sta. 12+80 & Sta. 18+50 Lt. until shoulder work begins.



**LITTLE BOULDER CREEK
TYPICAL DETOUR SECTION**
N.T.S.



**BIG BOULDER CREEK
TYPICAL DETOUR SECTION**
N.T.S.

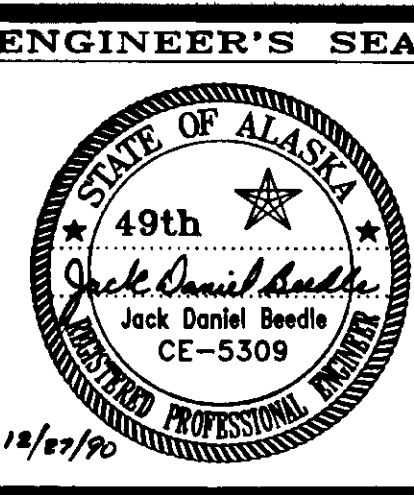
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

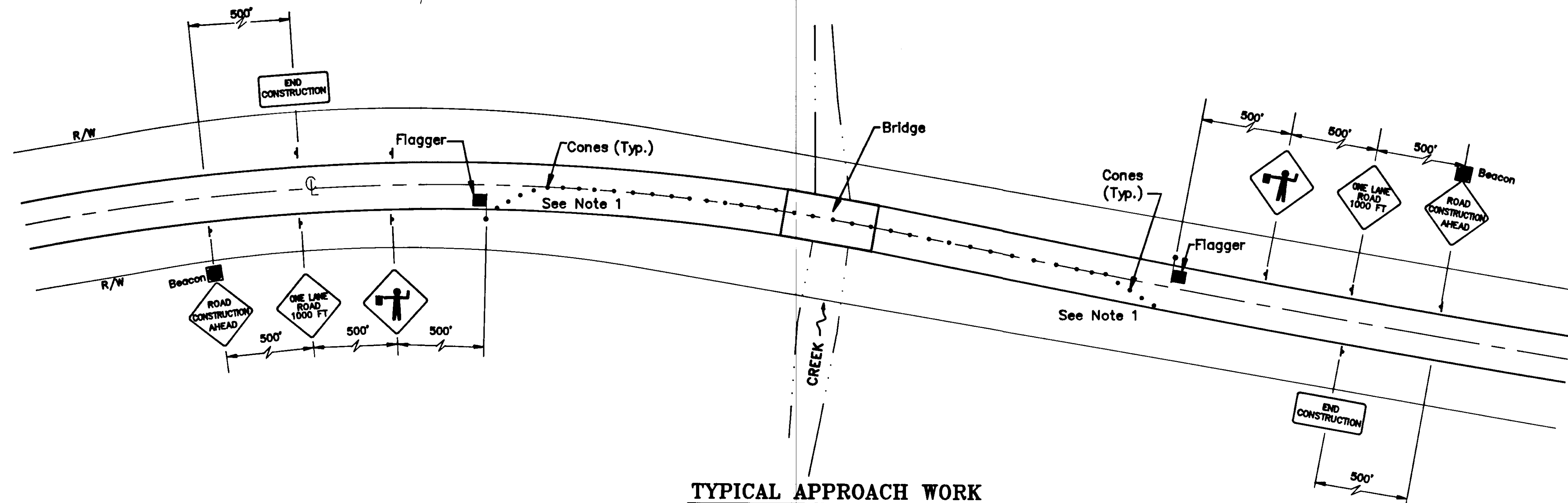
BY:	DATE:	DESCRIPTION OF CHANGE:

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

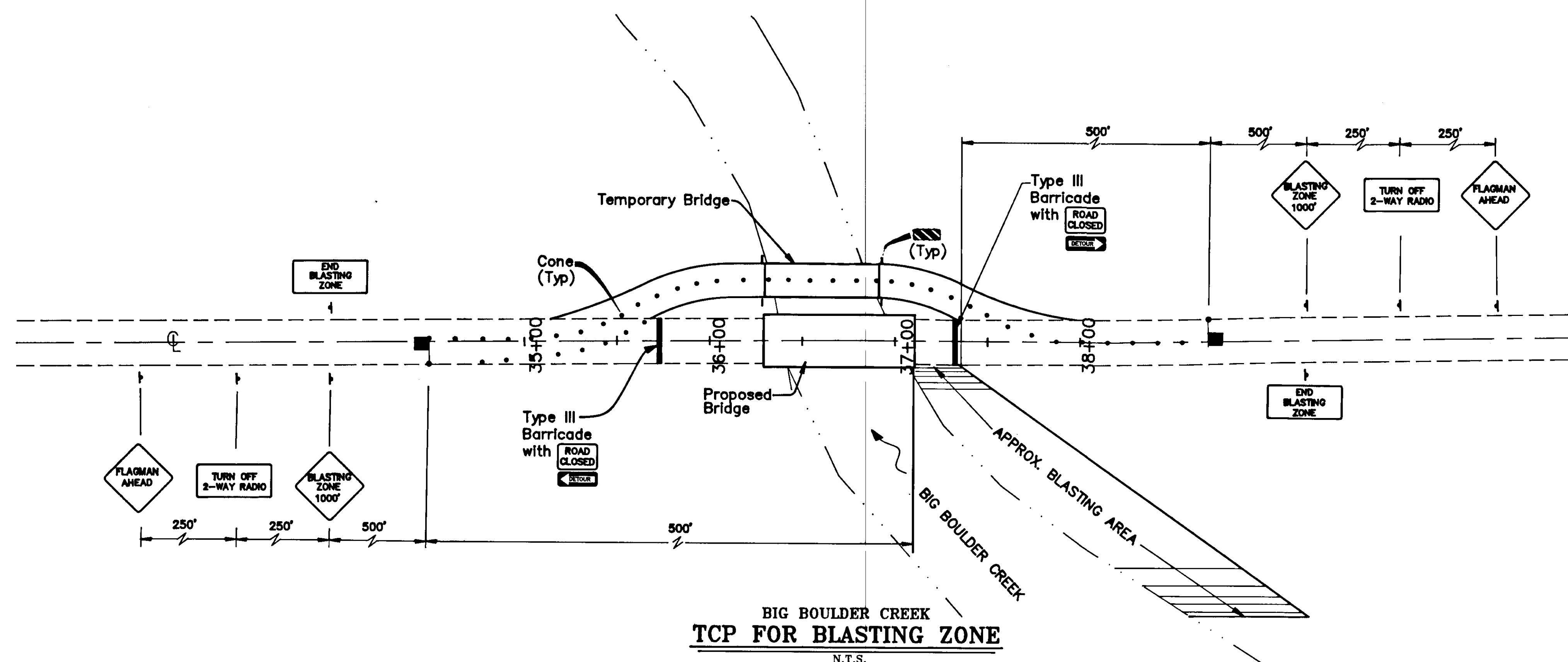
HAINES BRIDGES
TRAFFIC CONTROL PLAN
F-095-6(11) PROJECT #70226

DESIGNED BY:	K.M.	PROJECT NO.	F-095-6(11)
DRAWN BY:	AUTOCADD/R.S.	DATE:	9/90
CHECKED BY:	J.D.B.	SHEET	7 OF 28





TYPICAL APPROACH WORK



**BIG BOULDER CREEK
TCP FOR BLASTING ZONE**

N.T.S.

NOTES:

1. Taper Formula:

$$L = \frac{WS^2}{60}$$

Where:

L = Minimum length of taper.

S = Numerical value of posted speed limit prior to work or 85 percentile speed.

W = Width of offset.

2. Cone and warning lights spacing shall be equal to construction speed limit in feet.
3. Pavement markings no longer applicable shall be removed or obliterated as soon as practicable. Temporary markings shall be used as necessary.
4. Flood lights should be provided to mark flagger stations at night as needed.
5. If entire work area is visible from one station, a single flagger may be used.
6. Warning lights should be used to mark channelizing devices at night as needed.

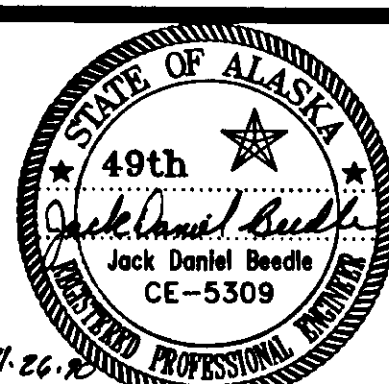
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

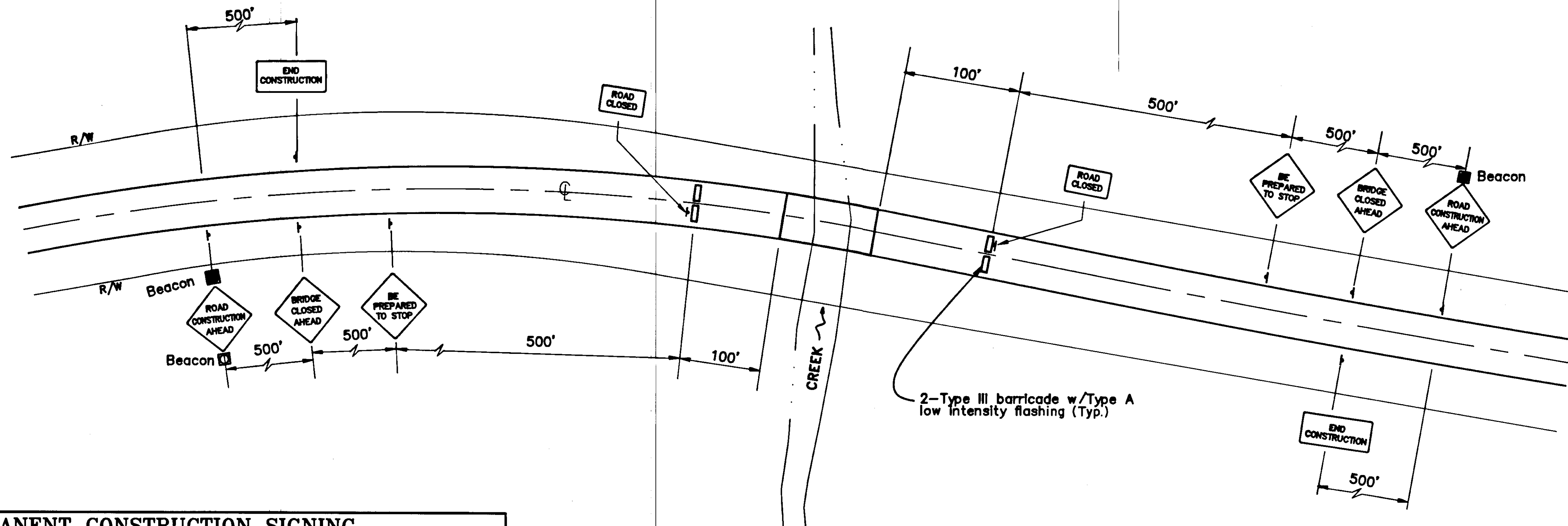
DATE:	DESCRIPTION OF CHANGE:

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

HAINES BRIDGES
TRAFFIC CONTROL PLAN
F-095-6(11) PROJECT #70226

DESIGNED BY:	K.M.	PROJECT NO.	F-095-6 (11)
DRAWN BY:	AUTOCADD/R.S.	DATE:	9/90
CHECKED BY:	J.D.B.	SHEET	8 OF 28





TYPICAL BRIDGE CLOSURE

PERMANENT CONSTRUCTION SIGNING					
CODE	QUANT.	LEGEND	SIZE	S.F.	REMARKS
G20-2	4	END CONSTRUCTION	24"X60"	40	
CW20-1F	4	ROAD CONSTRUCTION AHEAD	48"X48"	64	HIGH-LEVEL WARNING BEACON

CONSTRUCTION SIGNING					
CODE	QUANT.	LEGEND	SIZE	S.F.	REMARKS
R11-2	4	ROAD CLOSED	30"X48"	40	WITH DETOUR ARROW
CW5-3	4	ONE LANE BRIDGE	36"X36"	36	POST MOUNTED
CW14-5B	2	BRIDGE CLOSED AHEAD	36"X36"	18	
CW20-7	4	FLAGGER (SYMBOL)	36"X36"	36	
CW20-8	4	BE PREPARED TO STOP	36"X36"	36	
CW20-4B	4	ONE LANE ROAD 1000 FT.	48"X48"	64	
CW1-3L	2	CURVE WARNING LEFT	36"X36"	18	WITH CW13-1: 20 MPH
CW1-3R	2	CURVE WARNING RIGHT	36"X36"	18	WITH CW13-1: 20 MPH
CW20-2B	4	DETOUR 1000 FT	48"X48"	64	WITH CW13-1: 20 MPH
M4-10L	2	DETOUR ARROW LEFT	48"X18"	12	
M4-10R	2	DETOUR ARROW RIGHT	48"X18"	12	
OM3-R	4	OBJECT MARKER, RIGHT	36"X12"	12	AT BEGINNING OF BRIDGE
OM3-L	4	OBJECT MARKER, LEFT	36"X12"	12	AT BEGINNING OF BRIDGE
CW13-1	8	20 M.P.H.	24"X24"	32	
CW22-1	2	BLASTING ZONE 1000 FT.	48"X48"	32	
CW22-2	2	TURN OFF 2-WAY RADIO	42"X36"	21	
CW22-3	2	END BLASTING ZONE	42"X36"	21	

NOTES:

- Night closures shall be during scheduled border closures. Center barricades 100' from bridge in traffic lanes being used at time of closures.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE	DESCRIPTION OF CHANGE

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

HAINES BRIDGES
TRAFFIC CONTROL PLAN
 F-095-6(11) PROJECT #70226

DESIGNED BY:	K.M.	SCALE
DRAWN BY:	AUTOCADD/R.S.	DATE: 9/90
CHECKED BY:	J.D.B.	SHEET 9 OF 28

