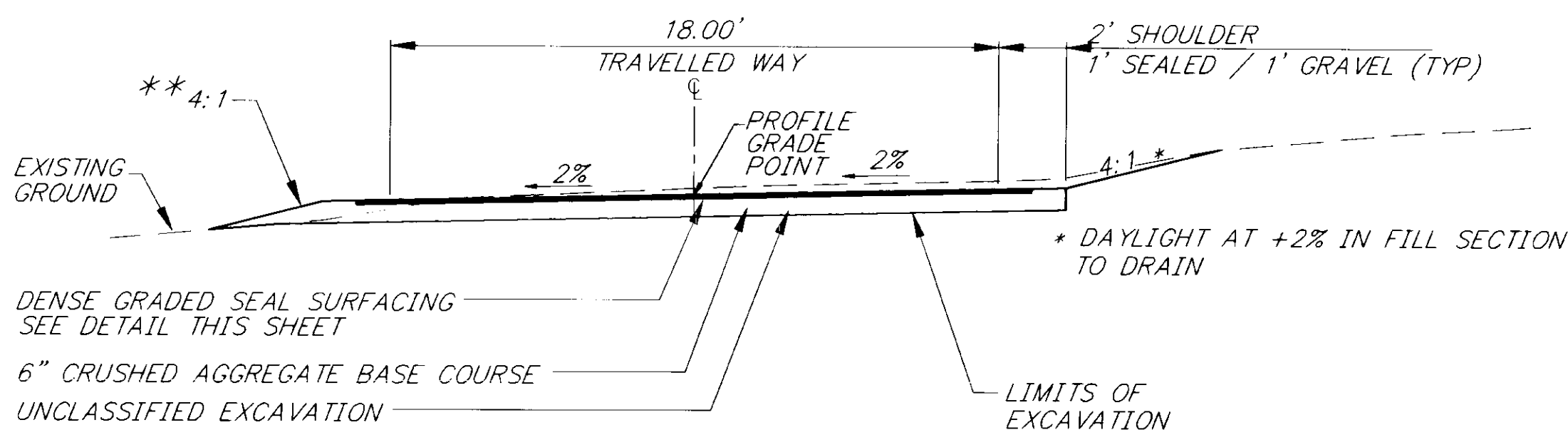


**TYPICAL SECTION
HAINES HIGHWAY TO VILLAGE**

BOP STA. "0" 10+28.70 TO STA. "0" 26+75

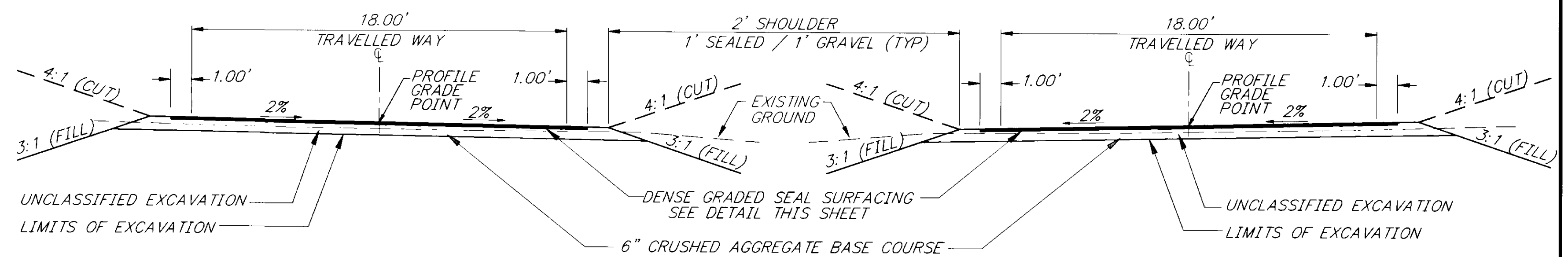


**TYPICAL SECTION
THROUGH VILLAGE**

STA. "0" 26+75 TO EOP STA. "0" 53+50

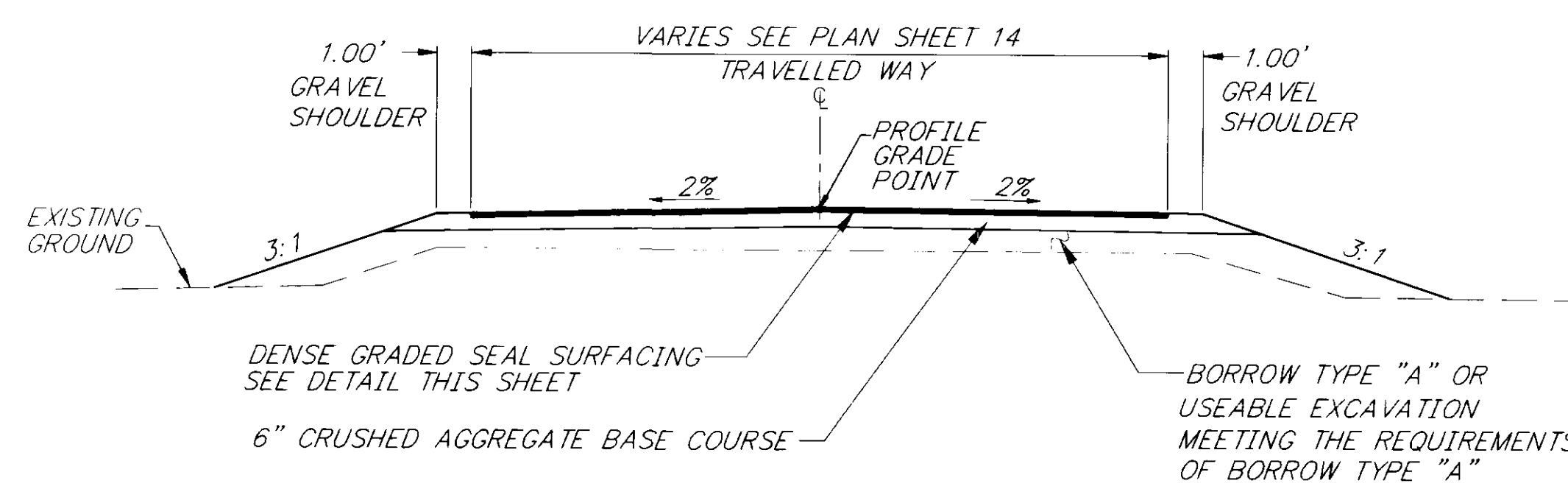
TYPICAL SECTION NOTES

- CLEARING & GRUBBING SHALL BE DONE TO THE PROJECT SLOPE LIMITS.
- SEED ALL CUTSLOPES, FILLSLOPES, AND DITCHES.
- EXCAVATION LIMITS FOR ALL SECTIONS ARE THE DITCH OR CUT/FILL FORESLOPES AND BACKSLOPES AND THE BOTTOM OF THE CRUSHED AGGREGATE BASE COURSE LAYER.

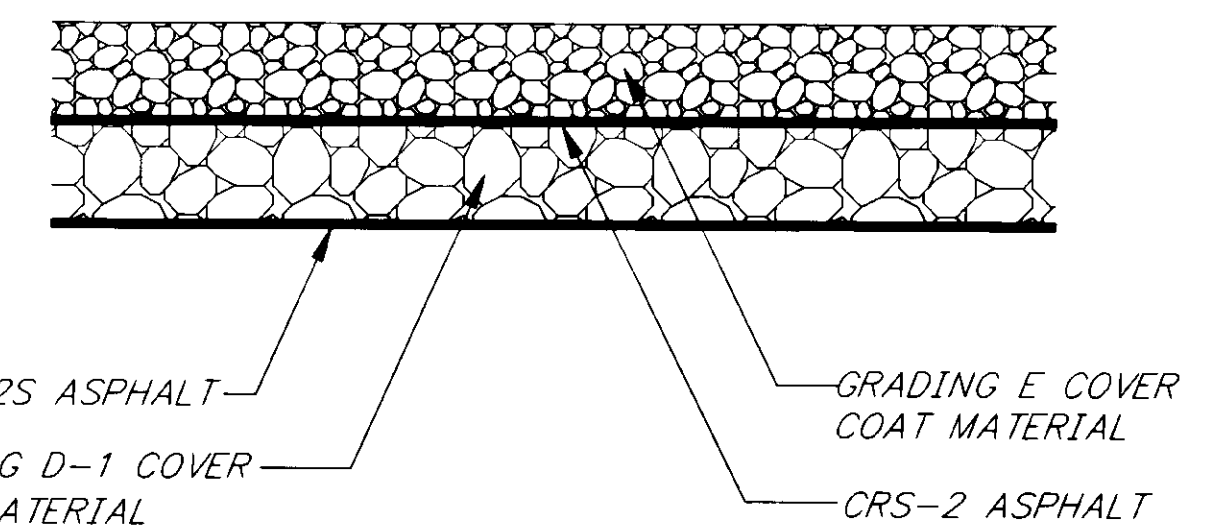


**TYPICAL SECTION
MISSION STREET**

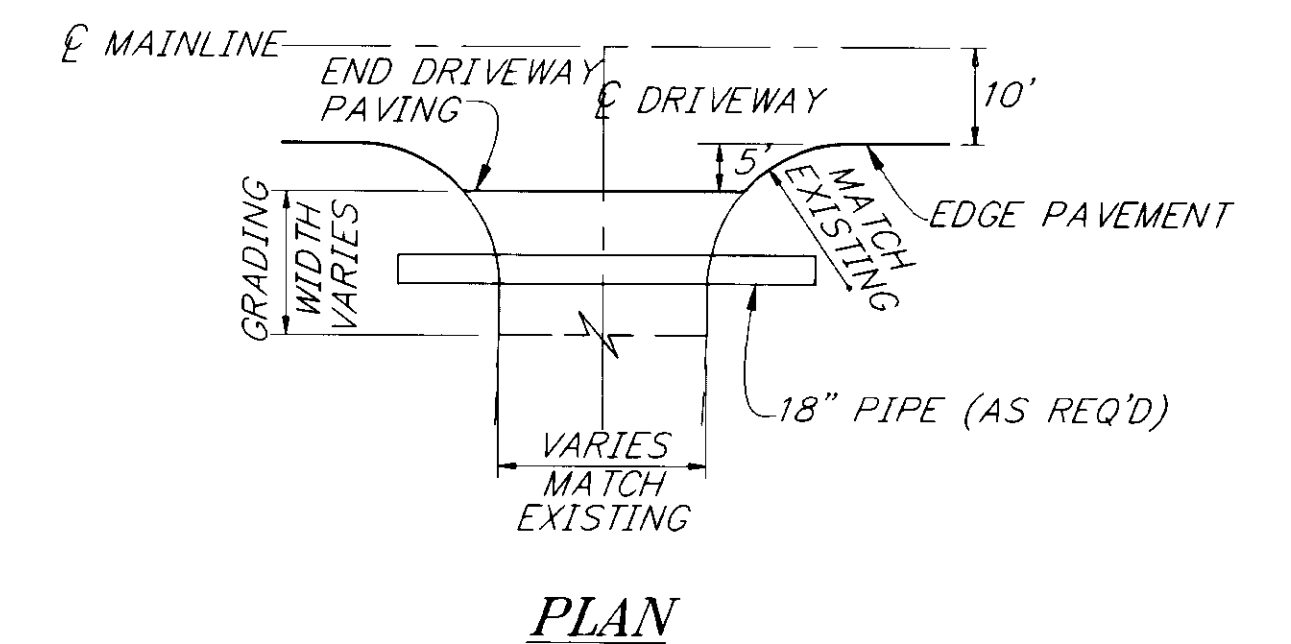
**TYPICAL SECTION
ROAD TO UPPER VILLAGE**



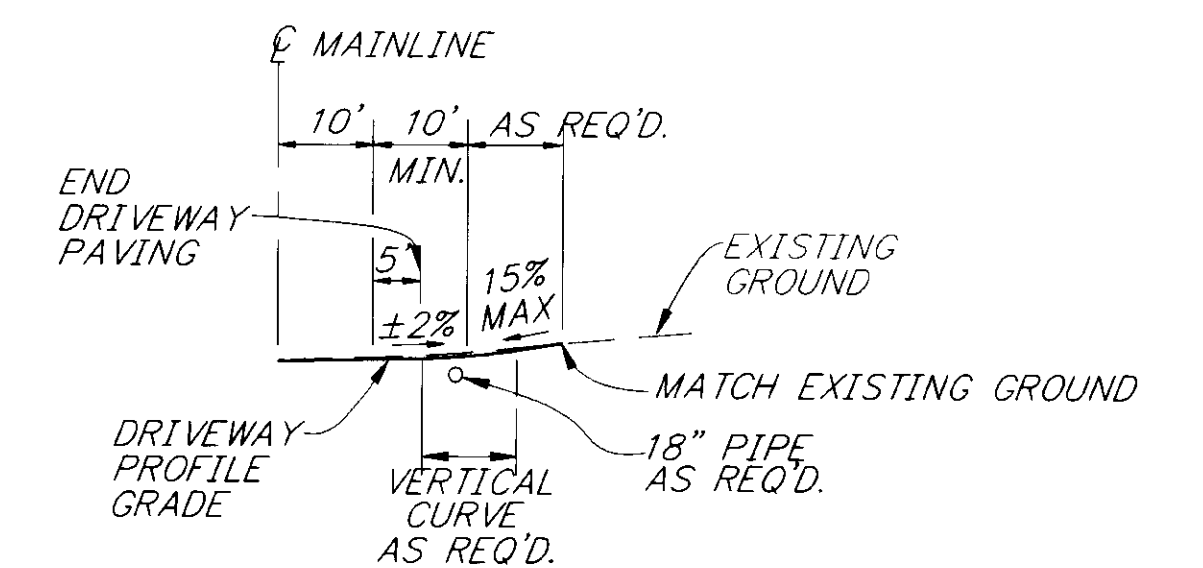
**TYPICAL SECTION
TURNOUT APPROACH**



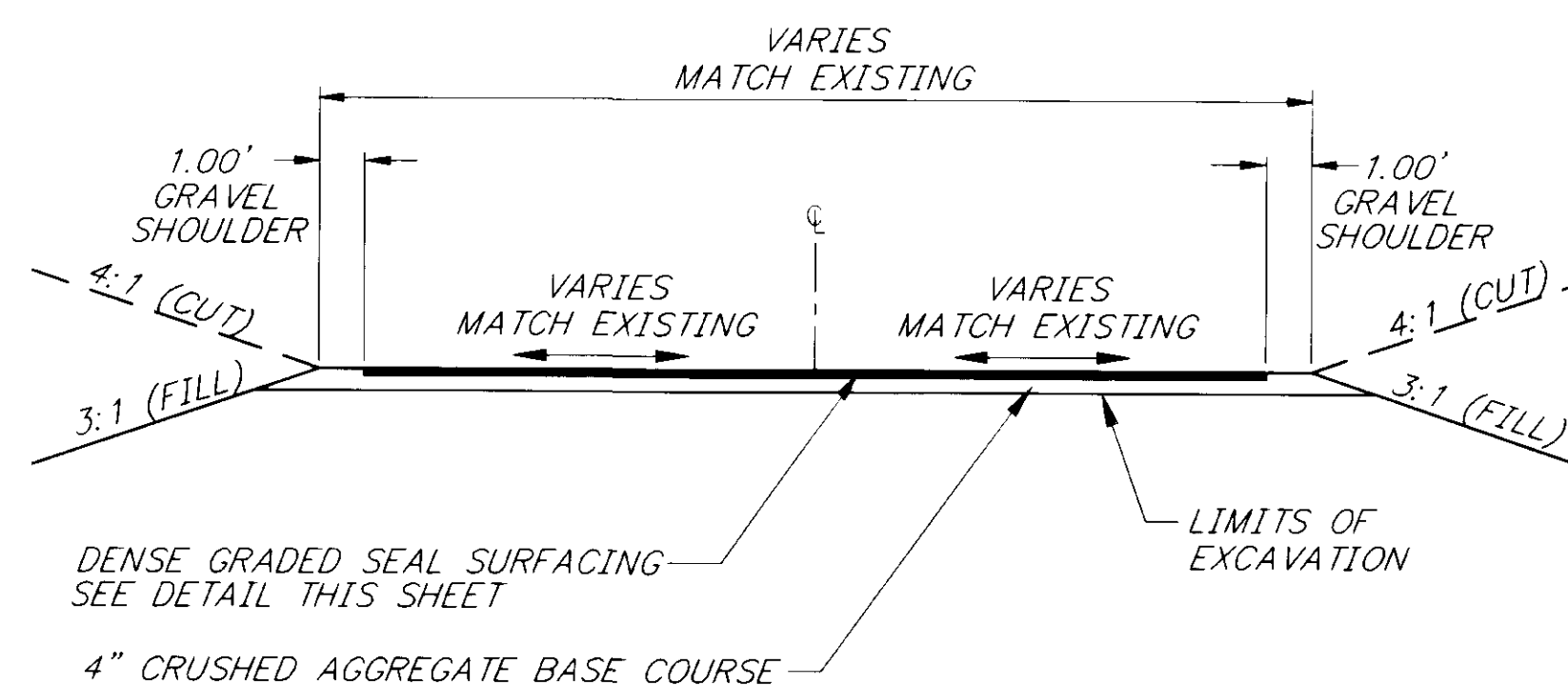
**DENSE GRADED SEAL
SURFACING DETAIL**



PLAN



PROFILE



TYPICAL DRIVEWAY SECTION

TYPICAL DRIVEWAY DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\HNS\71622\DR\TYP1		
PLOT: P:\-LIB\-PLOT\PLOT.PCP(4) OR PLOT.PCP(8)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

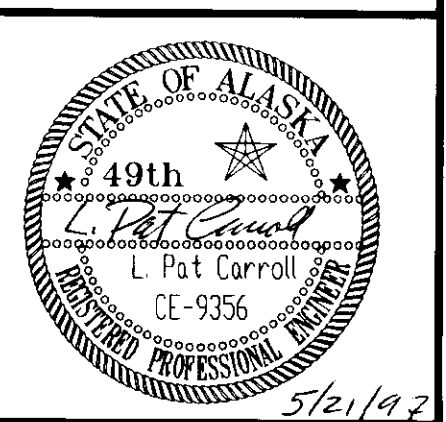
KLUKWAN

KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622

ALASKA

DESIGNED BY:
LPC
DRAWN BY:
LPC/KS
CHECKED BY:
CNM

PROJECT NO.
71622
DATE:
APRIL, 1997
SHEET 2 OF 19



TYPICAL SECTIONS

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY	REMARKS
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	
201(3B)	CLEARING & GRUBBING	LUMP SUM	ALL REQUIRED	
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED	
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	3900 3089.25	
203(11)	BORROW, TYPE A	LUMP SUM	ALL REQUIRED	APPROX. QTY. 1000 CY
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	850 1115.2	
405(1A)	CRS-2 LIQUID ASPHALT FOR SURFACE TREATMENT	TON	77 24.68	
405(1B)	HFMS-2s LIQUID ASPHALT FOR SURFACE TREATMENT	TON	35 32.32	
405(2A)	GRADING D-1, COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	TON	420 446.43	
405(2B)	GRADING E, COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	TON	140 220.04	
603(17-18)	18 INCH PIPE	LINEAR FOOT	151 242	
603(17-24)	24 INCH PIPE	LINEAR FOOT	152 151	
603(17-36)	36 INCH PIPE	LINEAR FOOT	# 44	
604(3)	RECONSTRUCT MANHOLE C.O.#3	EACH	4	
604(4)	ADJUST EXISTING MANHOLE	EACH	7 3	
609(7)	CONCRETE GUTTER	LINEAR FOOT	33 325.9	
610(4)	DITCH LINING	LUMP SUM	ALL REQUIRED	APPROX. QTY. 10 CY
611(3)	RIPRAP, CLASS I	LUMP SUM	ALL REQUIRED	APPROX. QTY. 10 CY
614(1)	SURVEY MONUMENTS	EACH	5 2	
614(2)	MONUMENT CASES	EACH	3	
615(1)	STANDARD SIGNS	SQUARE FOOT	45	
618(5)	SEEDING	LUMP SUM	ALL REQUIRED	
627(6)	FIRE HYDRANT RELOCATION	EACH	1	
627(10)	ADJUSTMENT OF VALVE BOX	EACH	5 5	
627(11)	WATER SERVICE RECONSTRUCTION	EACH	4	
626(2)	SEWERLINE REPAIR C.O.#1	LUMP SUM	ALL REQUIRED	
635(1)	INSULATION BOARD	MBM	27.3	
639(3)	APPROACHES	EACH	56 60	
640(1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED	
641(1)	EROSION & POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	
641(2)	EROSION & POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	
641(3)	ROCK CHECK DAMS	EACH	12 5	
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	
643(3)	PERMANENT CONSTRUCTION SIGNING	LUMP SUM	ALL REQUIRED	
643(4)	CONSTRUCTION SIGN	EACH PER DAY	180 44	
643(6)	TYPE III BARRICADE	EACH PER DAY	135 31	
643(7)	TRAFFIC CONE	EACH PER DAY	1350 580	
643(10)	SPECIAL CONSTRUCTION SIGN	SQUARE FOOT	16.5	
662(1)	UTILITY ADJUSTMENT	LINEAR FOOT	25 153	
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED	

GENERAL NOTES

- VERTICAL AND HORIZONTAL ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS.
- CULVERT LENGTHS AND LOCATIONS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS.
- THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
- THE SUPERELEVATION SHALL BE REVOLVED ABOUT THE CENTERLINE FROM B.O.P. STATION "0" 10+28.70 TO STATION "0" 27+46.22. THE RATE OF SUPERELEVATION AND OTHER SUPERELEVATION DETAILS ARE SHOWN ON THE PLAN AND PROFILE SHEETS. ALL OTHER AREAS SHALL NOT BE SUPERELEVATED, BUT SHALL RETAIN CROSS SLOPE SHOWN IN TYPICAL SECTIONS.
- ALL WASTE MATERIAL SHALL BE PLACED OUTSIDE THE PROJECT LIMITS AT A LOCATION PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- EXCAVATIONS FOR THIS PROJECT ARE REQUIRED TO BE MONITORING BY AN ARCHEOLOGIST. SEE SPECIFICATIONS SECTIONS 107-1.07 AND 108-1.03, AND ARCHEOLOGIST MONITORING AREA SUMMARY ON SHEET 19.

BASIS OF ESTIMATE

ITEM NO.	ITEM	QUANTITY
203 (6)	BORROW, TYPE A	1.9 TONS/CY
301 (1)	CRUSHED AGGREGATE BASE COURSE	2.1 TONS/CY
405 (1A)	CRS-2 LIQUID ASPHALT FOR SURFACE TREATMENT	.35 GAL/SY-236 GAL/TON
405 (1B)	HFMS-2s LIQUID ASPHALT FOR SURFACE TREATMENT	.75 GAL/SY-240 GAL/TON
405 (2A)	GRADING D-1, COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	75 lbs./SY
405 (2B)	GRADING E, COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	25 lbs./SY

INSULATION BOARD SUMMARY

APPROX. "0" STATION	APPROX. OFFSET	MBM	REMARKS
37+00 TO 37+50	16' LT	.800	CULVERT/DITCH OVER SEWER FORCE MAIN
37+69	5' RT	.26	CULVERT OVER WATER MAIN
37+91	18' RT	.26	DITCH OVER WATER MAIN
38+35	18.5' RT	.26	CULVERT OVER WATER MAIN
39+09	18.5' RT	.26	DITCH OVER WATER MAIN
40+32	19' RT	.26	CULVERT OVER HYDRANT LEG
TOTAL			2.10-

CULVERT PIPE SUMMARY

PIPE NO.	DIAMETER	LENGTH	FROM	INVERT	TO	INVERT	REMARKS
			STRUCTURE/"0" STATION		STRUCTURE/"0" STATION		
P-0	24"	5'	10+84.33, 32.84' LT	MATCH EXISTING PIPE	10+83.78, 37.30' LT	MATCH EXISTING STREAM CHANNEL	EXTEND EXISTING PIPE
P-1	24"	15'	11+01.85, 35.70' RT	MATCH EXISTING STREAM CHANNEL	10+96.49, 21.91' RT	MATCH EXISTING PIPE	EXTEND EXISTING PIPE
P-2	36"	44' 4"	12+54.96, 20.60' RT	106.41	12+57.90, 20.25' LT	105.94	FISH STREAM, PIPE INVERT DEPRESSED 18" BELOW STREAM GRADE
P-3	18"	40' 28"	19+19.64, 21.73' RT	114.39	18+91.65, 22.47' RT	114.25	
P-4	18"	38'	24+32.33, 19.29' RT	118.86	23+94.34, 18.75' RT	118.11	
P-5	24"	53'	37+32.95, 139.47' LT	106.83	37+31.60, 192.45' LT	105.62	
P-6	24"	29' 30"	37+35.53, 20.00' LT	114.57	37+05.53, 20.00' LT	114.22	
P-7	24"	49'	37+80.31, 18.23' RT	115.75	37+49.87, 20.17' LT	114.73	
P-8	18"	30'	38+43.71, 18.54' RT	117.96	37+13.71, 18.50' RT	117.19	
P-9	18"	33'	39+45.04, 18.55' RT	119.24	39+11.77, 18.54' RT	119.07	
P-10	18"	21' 22"	40+43.01, 20.10' RT	120.82	40+20.90, 18.49' RT	119.62	THROUGH HYDRANT PAD
V-11	18"	40'	16+10 RT		16+50 RT		

MANHOLE SUMMARY

"0" STATION	OFFSET		REMARKS
	LEFT	RIGHT	
33+47.58	7.96		ADJUST RIM - RECONSTRUCT
34+94.69	9.09		ADJUST RIM - RECONSTRUCT
41+18.06	13.04		ADJUST RIM - RECONSTRUCT
47+60.23	3.03		ADJUST RIM - RECONSTRUCT
49+60	X		ADJUST RIM
48+63.85	2.89		ADJUST RIM
21+50	X		ADJUST RIM
52+04.43	1.11		ADJUST RIM
52+57.79	3.32		ADJUST RIM

VALVE AND VALVE BOX SUMMARY

"0" STATION	OFFSET		REMARKS
	LEFT	RIGHT	
31+30.20		4.04	ADJUST VALVE BOX
31+40.65		2.94	ADJUST VALVE BOX
40+75.01		7.14	ADJUST VALVE BOX
40+78.01		11.11	ADJUST VALVE BOX
40+80.74		7.32	ADJUST VALVE BOX - NOT ADJUSTED OUT OF ROADWAY
50+95.59		9.87	ADJUST VALVE BOX

FIRE HYDRANT RELOCATION SUMMARY

"0" STATION	OFFSET		REMARKS
	LEFT	RIGHT	
40+48.12		25.98'	REMOVE & RELOCATE TO 40+32, 21' RT

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

"0" STATION	OFFSET		DESCRIPTION OF ITEM
	LEFT	RIGHT	
BOP - 10+82			REMOVE PAVEMENT
12+56			REMOVE CULVERT
39+86		22.50'	RELOCATE SKID MOUNTED BUILDING FROM 22.5' RT TO 28' RT

PATH: P:\HNS\71622\DR\EST

PLOT: P:\-LIB\-PLOT\PL0T.PCP(1) OR PLOT.PCP(2)

BY: DATE: DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

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

KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP-0003(38) ~ PROJECT NO. 71622
 ALASKA
**ESTIMATE OF QUANTITIES
 & MISCELLANEOUS SUMMARIES**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: LPC
 DRAWN BY: RKS
 CHECKED BY: CNM

PROJECT NO. 71622
 DATE: APRIL, 1997
 SHEET 3 OF 19



STANDARD SIGNING SCHEDULE

SIGN NO.	"0" STATION	OFFSET		CODE NO. (ASDS)	LEGEND	SIZE	AREA S.F.	POST SIZE	TYPE	EMBEDMENT TYPE	FACING TRAFFIC	REMARKS
		LT.	RT.									
①	10+48	30.5'		R1-1	STOP	30" X 30"	6.25	2.5" x 2.5"	PST	SLEEVE(SOIL)	EB	
②	12+25		15'	R2-1	SPEED LIMIT 30	24" X 30"	5.00	2.5" x 2.5"	PST	SLEEVE(SOIL)	WB	
③	22+50	22'		R1-1	STOP	30" X 30"	6.25	2.5" x 2.5"	PST	SLEEVE(SOIL)	NB	
④	26+00		15'	R2-1	SPEED LIMIT 20	24" X 30"	5.00	2.5" x 2.5"	PST	SLEEVE(SOIL)	WB	
⑤	26+00	15'		R2-1	SPEED LIMIT 30	24" X 30"	5.00	2.5" x 2.5"	PST	SLEEVE(SOIL)	EB	
⑥	40+94		20'	R1-1	STOP	30" X 30"	6.25	2.5" x 2.5"	PST	SLEEVE(SOIL)	SB	BEWARE OF BURIED UTILITIES
⑦	51+10		20'	R1-1	STOP	30" X 30"	6.25	2.5" x 2.5"	PST	SLEEVE(SOIL)	SB	BEWARE OF BURIED UTILITIES
⑧	53+25	15'		R2-1	SPEED LIMIT 20	24" X 30"	5.00	2.5" x 2.5"	PST	SLEEVE(SOIL)	EB	BEWARE OF BURIED UTILITIES

GENERAL SIGNING NOTES

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS.
4. ALL SIGNS SHALL BE .080" THICK.
5. ALL NEW SIGNS SHALL BE UNFRAMED.
6. ALL EXISTING SIGNS SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA DOT/PF HAINES MAINTENANCE STATION AS DIRECTED BY THE ENGINEER.
7. SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN PANEL IS 7 FEET ABOVE THE ROADWAY SURFACE.

MONUMENT & CASE SUMMARY

"0" STATION	OFFSET	DESCRIPTION	REMARKS
15+25.60	2.34' RT	GLO BC 533/534	PRESERVE OR REPLACE
22+21.96	0.18' LT	ROCK W/"X"	REFERENCE AND REPLACE
26+30.48	21.65' RT	ROCK W/"X"	REFERENCE AND REPLACE (NO CASE REQUIRED)
27+27.09	12.65' RT	GLO BC 5979/193	PRESERVE OR REPLACE (NO CASE REQUIRED)
29+68.96	0.13' RT	GLO BC W/"X"	PRESERVE OR REPLACE

MONUMENT NOTES

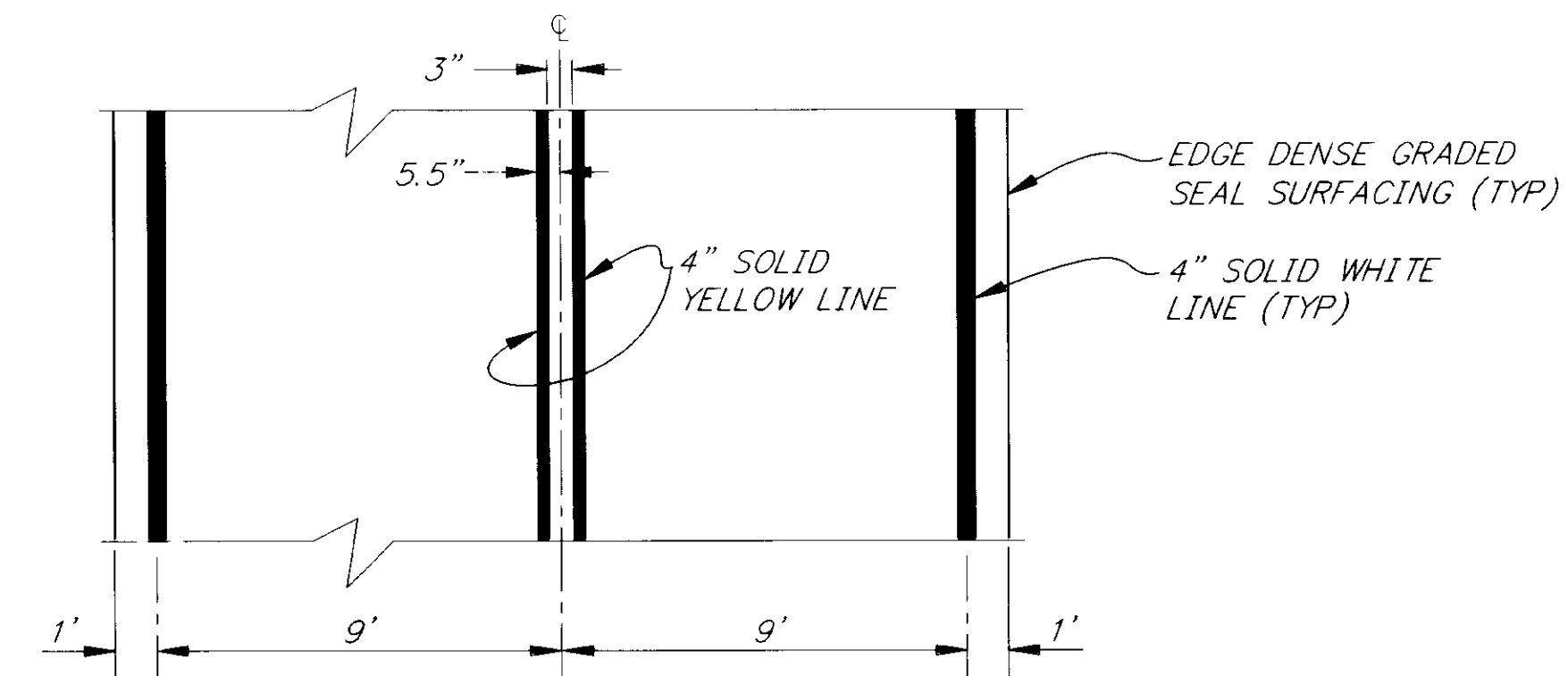
1. MONUMENTS AND CASES ARE DETAILED IN STD. DRAWING M-13.01 AND M-16.01.
2. ALL NEW MONUMENTS SHALL RETAIN THE MARKINGS OF THE MONUMENT BEING REPLACED.

GENERAL STRIPING NOTES

1. STRIPING SHALL BE DONE AFTER COMPLETE CURING AND FINAL SWEEPING OF THE DENSE GRADED SEAL SURFACING.

APPROACH SUMMARY

"0" STATION	OFFSET		REMARKS	"0" STATION	OFFSET		REMARKS
	LEFT	RIGHT			LEFT	RIGHT	
BOP			HAINES HIGHWAY	39+10	X		
19+10		X		39+30		X	
22+75	X		TURNOUT	40+20	X		
24+10		X		40+70		X	CHURCH ROAD
26+90		X		41+15	X		DELETED
28+05	X			42+30		X	
28+25		X		42+90		X	
28+55	X			43+00	X		
29+15		X		43+15		X	
29+80	X			44+00	X		
30+00		X		45+00	X		
30+55	X			45+45		X	
31+10		X		45+95		X	
32+00		X		46+45		X	
33+50		X		46+80	X		
33+60	X		DELETED	47+20		X	
34+25	X			47+55		X	
34+25		X		48+00		X	
35+00	X			48+45	X		
35+40		X		48+70		X	
35+70		X		49+75	X		
36+25	X			50+15	X		
36+80	X			50+85		X	ROAD TO UPPER VILLAGE
37+15		X		51+90	X		
37+20	X			51+85		X	
37+30		X		52+40		X	
37+60	X			53+35		X	
38+30		X					
38+35	X						
16+30		X					
17+70		X					



TYPICAL ROADWAY STRIPING DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \HNS\71622\DR\SIGNSUM		
PLOT: P: \-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION DESIGN & CONSTRUCTION

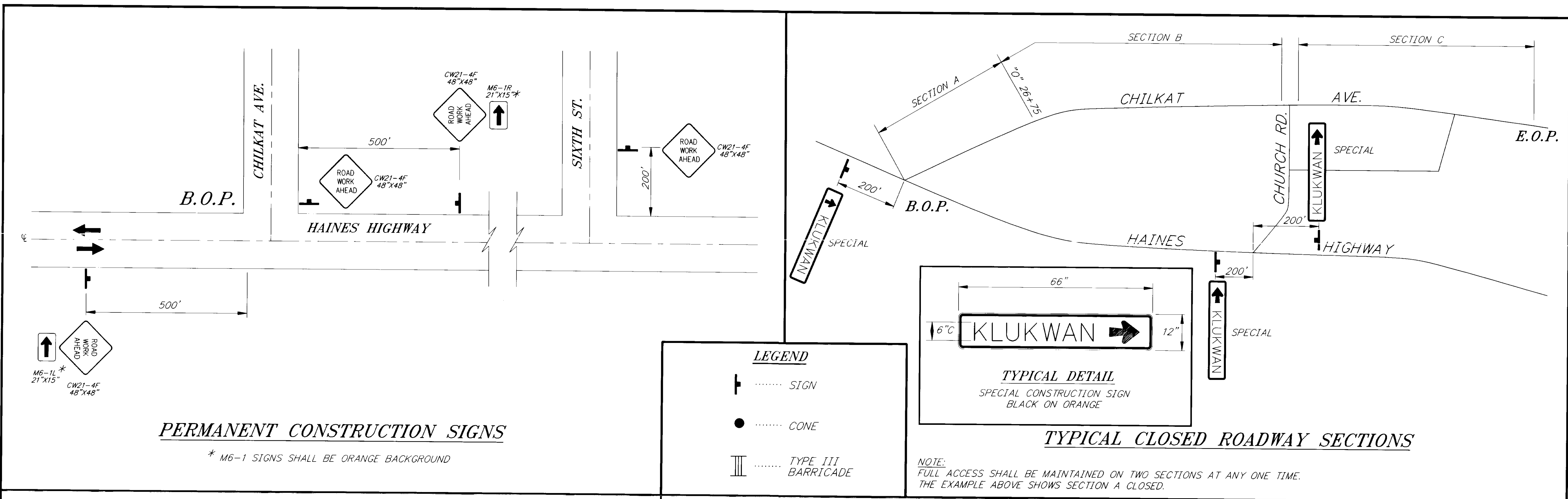
KLUKWAN

ALASKA
KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622
**APPROACH & SIGN SUMMARY
& STRIPING DETAIL**

ALASKA

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 4 OF 19





PERMANENT CONSTRUCTION SIGNS

* M6-1 SIGNS SHALL BE ORANGE BACKGROUND

LEGEND

- SIGN
- CONE
- TYPE III BARRICADE

TYPICAL CLOSED ROADWAY SECTIONS

NOTE: FULL ACCESS SHALL BE MAINTAINED ON TWO SECTIONS AT ANY ONE TIME. THE EXAMPLE ABOVE SHOWS SECTION A CLOSED.

TRAFFIC CONTROL NOTES

1. PROPERTY OWNERS SHALL BE NOTIFIED 24 HOURS PRIOR TO CLOSING THEIR SECTION OF THE STREET.
2. TWO-LANE, TWO-WAY TRAFFIC SHALL BE MAINTAINED DURING ALL NON WORKING HOURS.
3. WHILE SECTION "A" IS CLOSED, THE GREEN "KLUKWAN" DIRECTIONAL SIGNS ON HAINES HIGHWAY SHALL BE COVERED AND SPECIAL CONSTRUCTION SIGNS INSTALLED.
4. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP WILL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS.
5. THE CONSTRUCTION SIGN SUMMARY SHOWN IN THESE PLANS IS TO BE USED FOR COST ESTIMATING ONLY. ADDED SIGNS MAY BE REQUIRED BY THE ENGINEER.
6. CONSTRUCTION SIGNING SHALL BE PLACED ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.

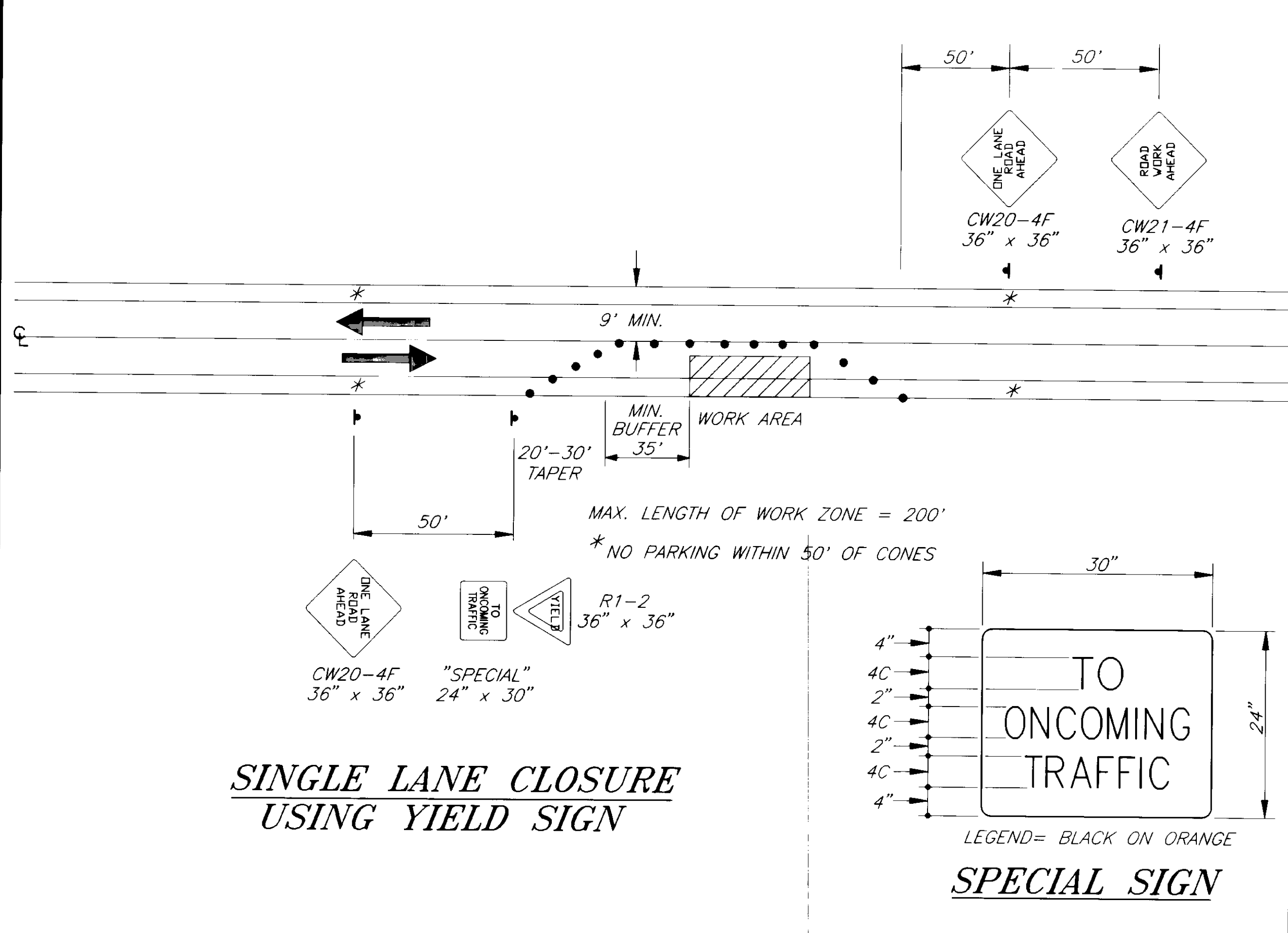
FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

45 MPH OR GREATER $L = W \times S$

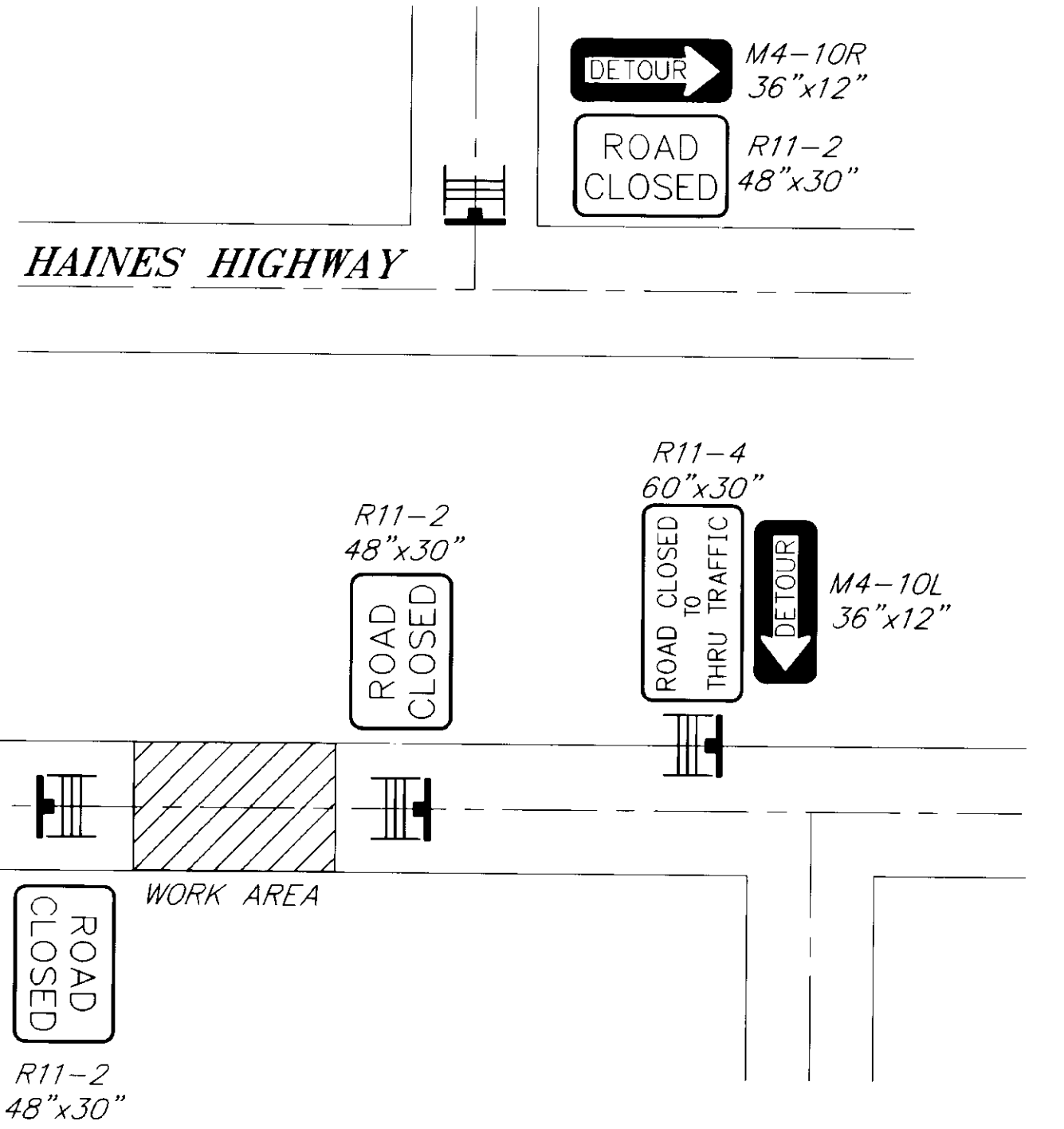
WHERE W = WIDTH OF OFFSET
S = POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

DRUM OR CONE SPACING = S (IN FEET)



SINGLE LANE CLOSURE USING YIELD SIGN

SPECIAL SIGN



TYPICAL ROAD CLOSED

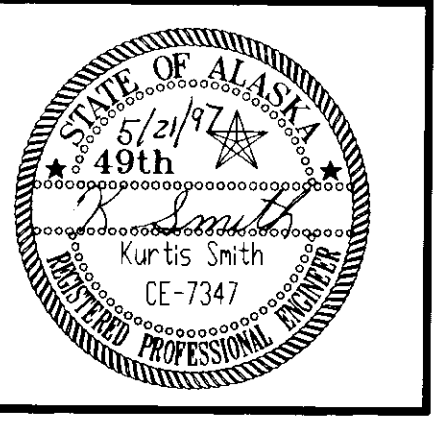
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

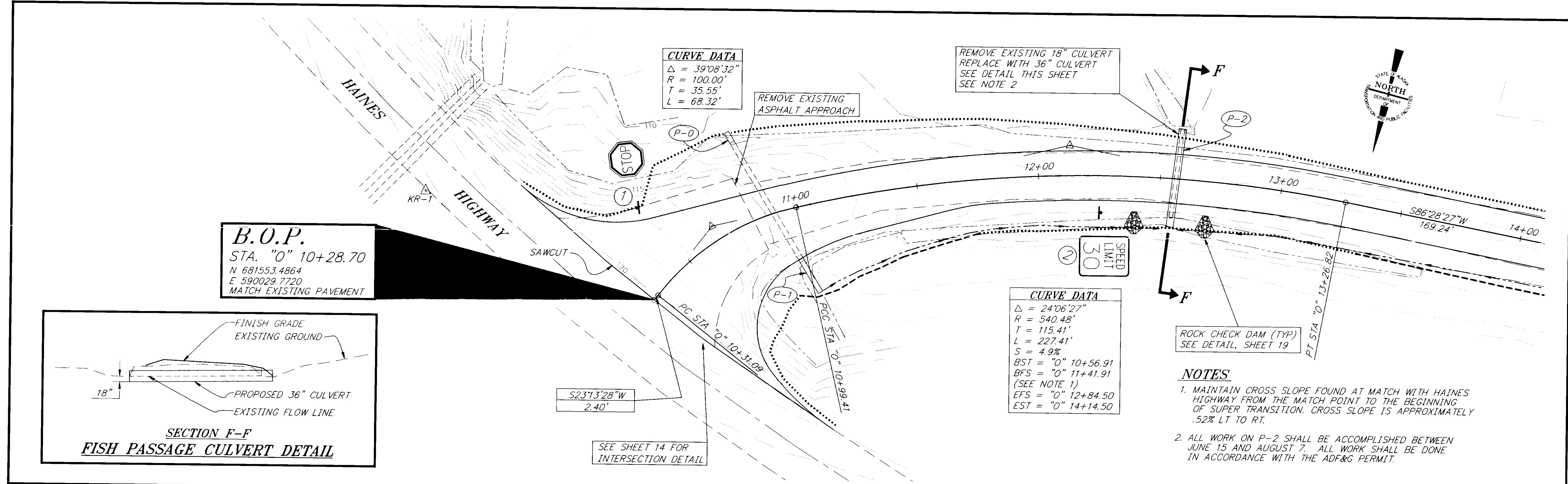
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PLOT: P: \-LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.H.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
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SOUTHEAST REGION DESIGN & CONSTRUCTION

KLUKWAN
KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622
ALASKA
TRAFFIC CONTROL PLAN

DESIGNED BY: J. ALHGREN	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: K. SMITH	SHEET 5 OF 19





**BASIS OF BEARING
 HORIZONTAL CONTROL**

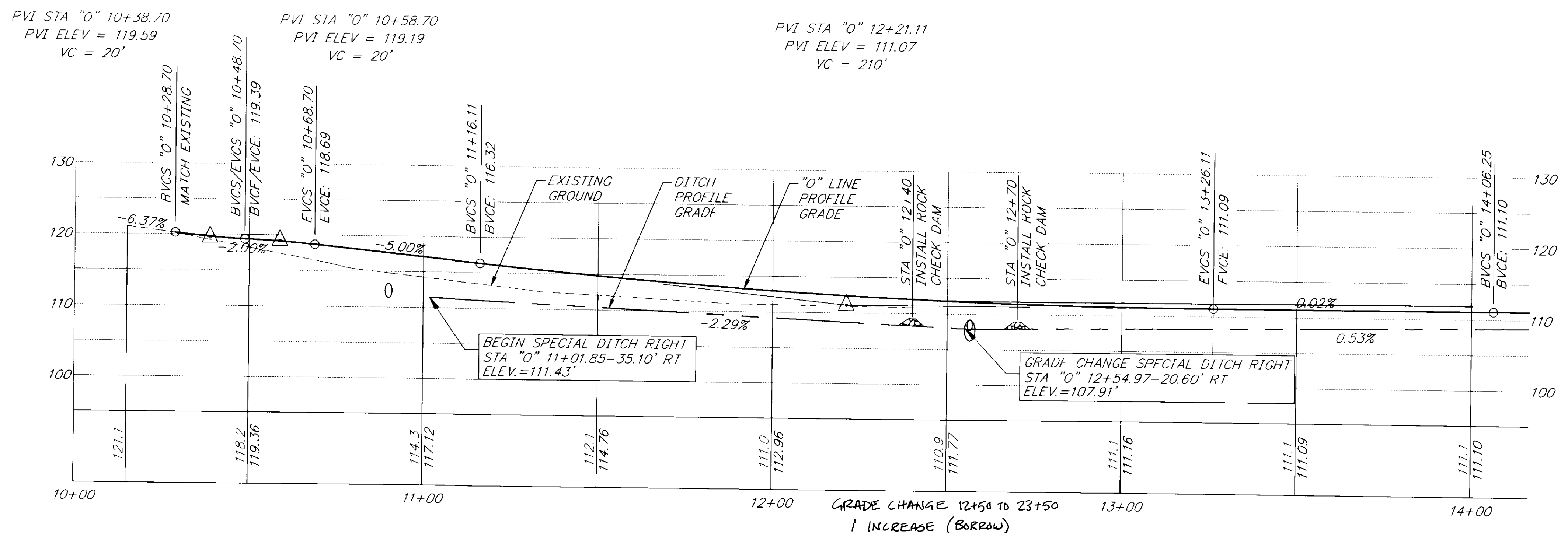
THE BASIS OF BEARING IS THE GEOTETIC BEARING OF $S 77^{\circ} 17' 24'' W, 1313.72'$ BETWEEN THE MONUMENTS KR-1 AND KR-2. MONUMENTS KR-1 THIS SHEET AND KR-2 (SHEET 8) ARE 1-1/2" ALUMINUM CAPS ON NO. 5 REBAR.

VERTICAL CONTROL

THE PROJECT BASIS OF VERTICAL CONTROL IS THE EXISTING 1-1/2" ALUMINUM CAP MONUMENT KR-2 WITH AN ACCEPTED ELEVATION OF 120.38' ABOVE MSL.

THE BASIS OF VERTICAL CONTROL IS USC&GS BM M141 WITH A PUBLISHED ELEV. OF 101.365' MSL.

PLOT FILE FOR ALL PLAN & PROFILE SHEETS:
 SCRIPT = P:\HNS\71622\EN\ (PLOTIF) OR (PLOT)



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
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 AND PUBLIC FACILITIES
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KLUKWAN

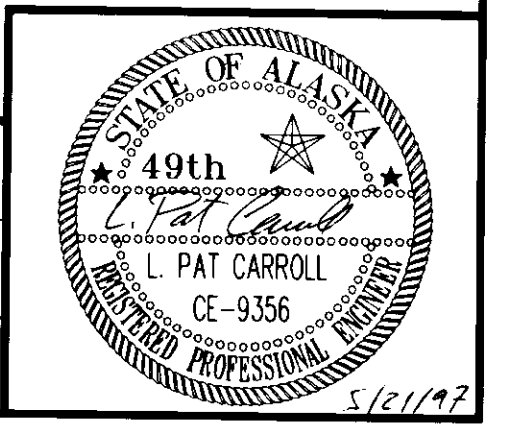
ALASKA

KLUKWAN ROAD REHABILITATION
 STP - 0003(38) ~ PROJECT NO. 71622

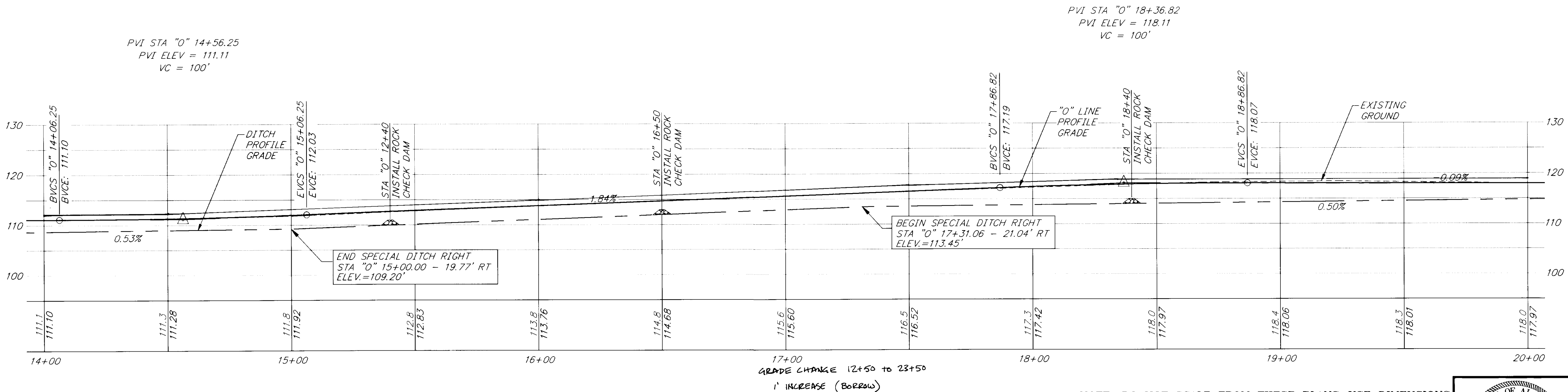
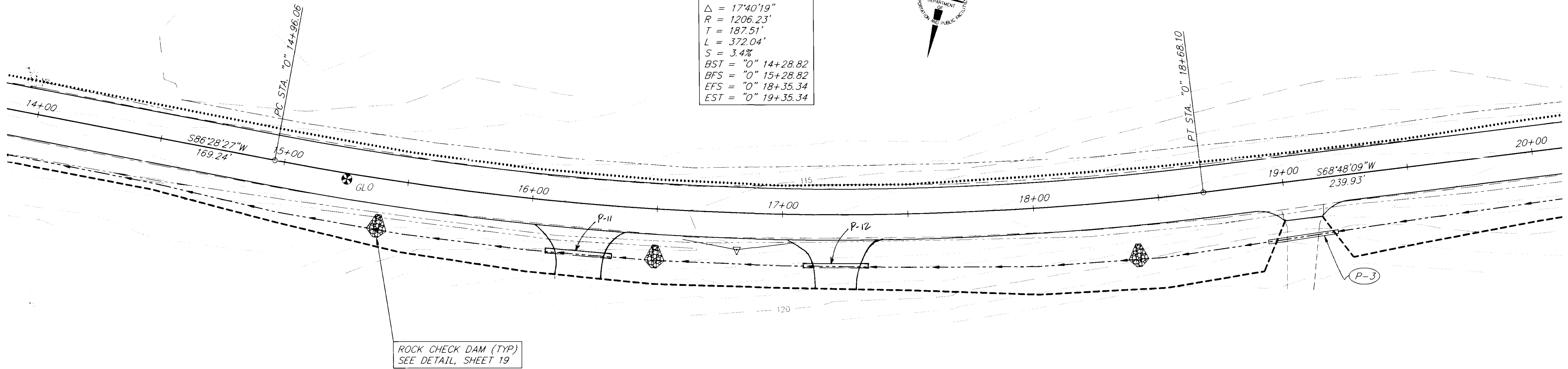
BOP TO STA. "O" 14+00
 PLAN AND PROFILE

DESIGNED BY: LPC
 DRAWN BY: LPC
 CHECKED BY: CNM

PROJECT NO. 71622
 DATE: APRIL, 1997
 SHEET 6 OF 19



CURVE DATA	
Δ	= 17°40'19"
R	= 1206.23'
T	= 187.51'
L	= 372.04'
S	= 3.4%
BST	= "0" 14+28.82
BFS	= "0" 15+28.82
EFS	= "0" 18+35.34
EST	= "0" 19+35.34

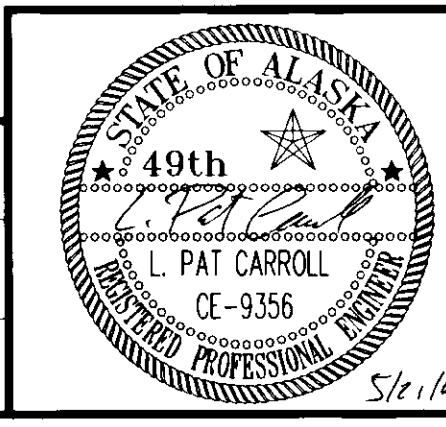


RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

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

KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP - 0003(38) ~ PROJECT NO. 71622
 ALASKA
STA. "0" 14+00 TO STA. "0" 20+00
 PLAN AND PROFILE

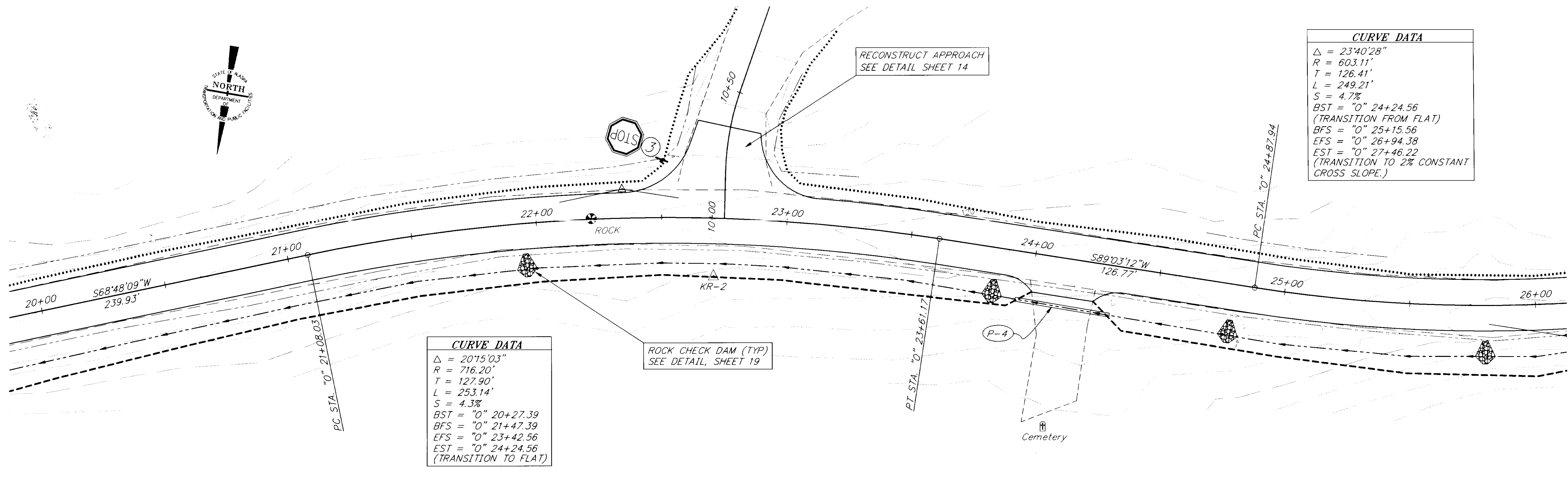
DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: LPC	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 7 OF 19



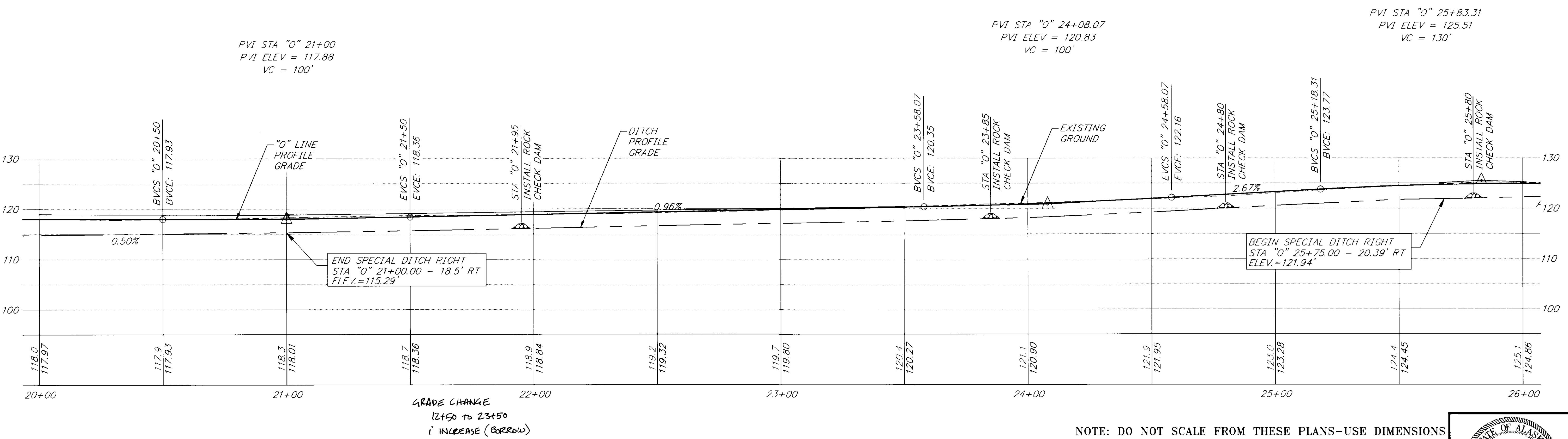
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



CURVE DATA	
Δ	= 23°40'28"
R	= 603.11'
T	= 126.41'
L	= 249.21'
S	= 4.7%
BST	= "0" 24+24.56 (TRANSITION FROM FLAT)
BFS	= "0" 25+15.56
EFS	= "0" 26+94.38
EST	= "0" 27+46.22 (TRANSITION TO 2% CONSTANT CROSS SLOPE.)



CURVE DATA	
Δ	= 20°15'03"
R	= 716.20'
T	= 127.90'
L	= 253.14'
S	= 4.3%
BST	= "0" 20+27.39
BFS	= "0" 21+47.39
EFS	= "0" 23+42.56
EST	= "0" 24+24.56 (TRANSITION TO FLAT)

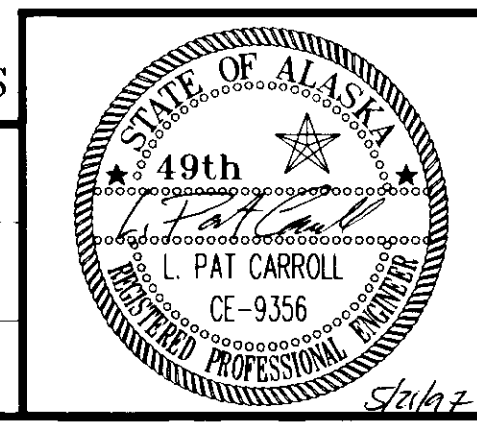


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BY:	DATE:	DESCRIPTION OF CHANGE:

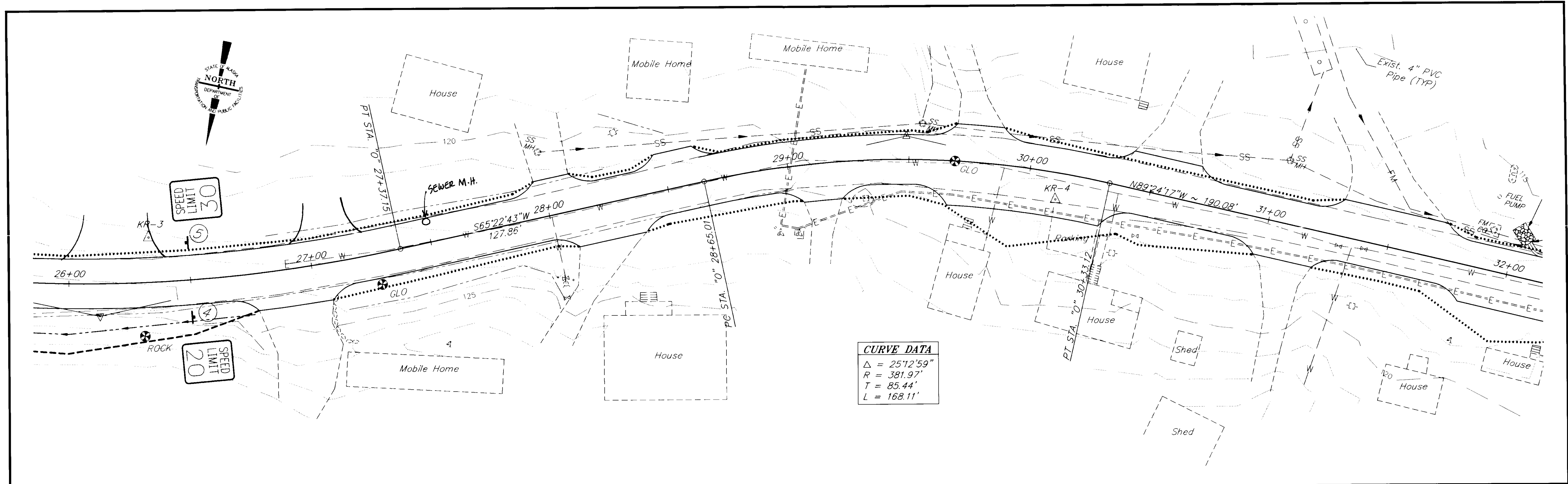
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP - 0003(38) ~ PROJECT NO. 71622
 ALASKA
STA. "0" 20+00 TO STA. "0" 26+00
 PLAN AND PROFILE

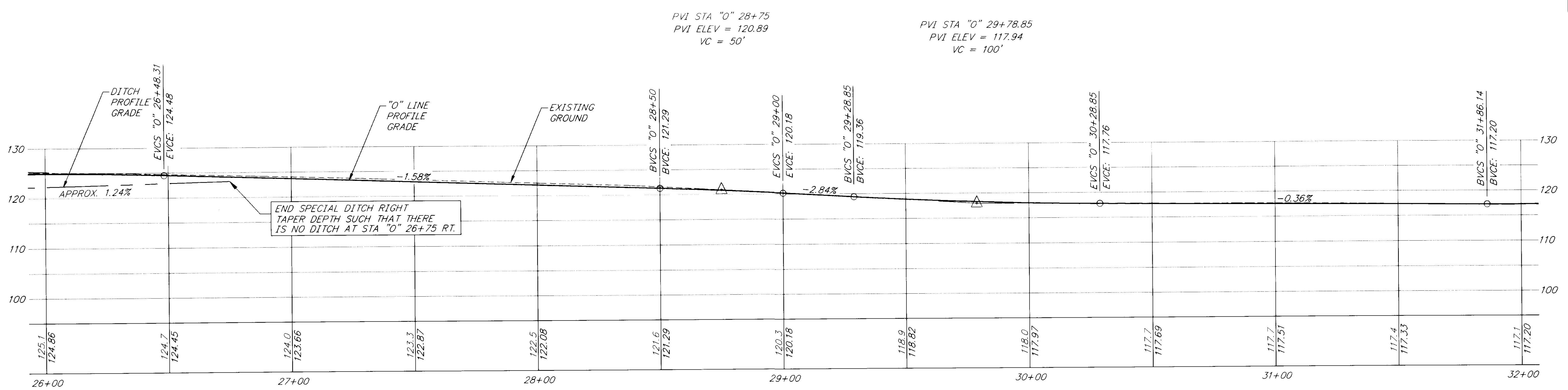
DESIGNED BY:	LPC	PROJECT NO.	71622
DRAWN BY:	LPC	DATE:	APRIL, 1997
CHECKED BY:	CNM	SHEET	8 OF 19



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



CURVE DATA
 $\Delta = 25^{\circ}12'59''$
 $R = 381.97'$
 $T = 85.44'$
 $L = 168.11'$



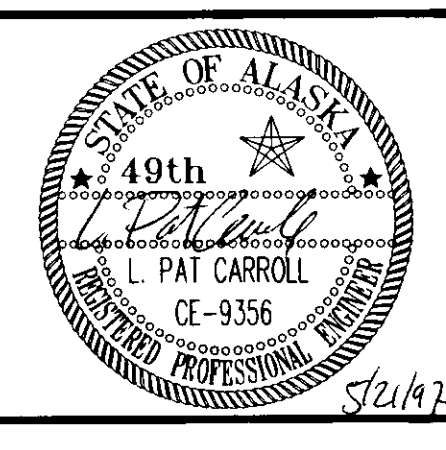
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DATE	DESCRIPTION OF CHANGE

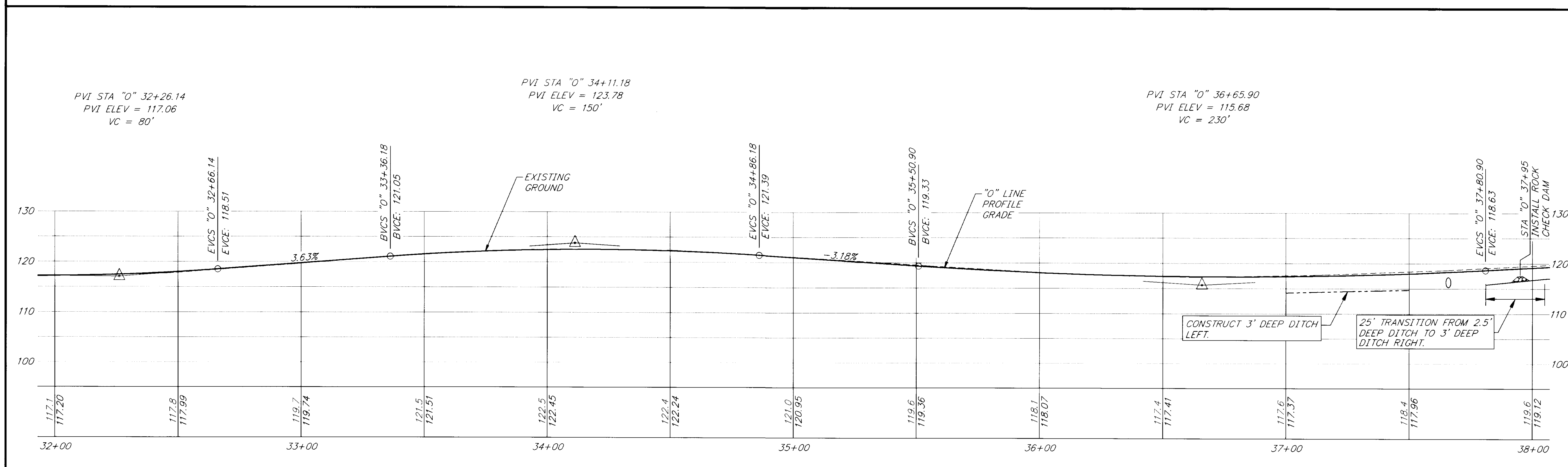
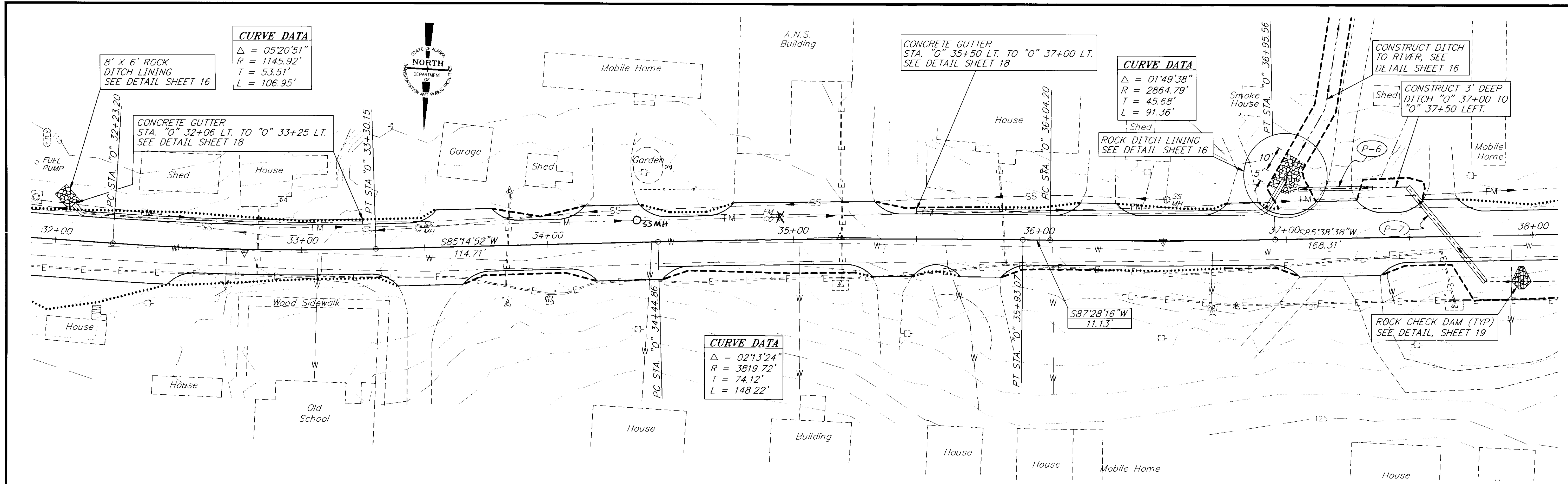
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KLUKWAN
KLUKWAN ROAD REHABILITATION
STP - 0003(38) ~ PROJECT NO. 71622
ALASKA
STA. "0" 26+00 TO STA. "0" 32+00
PLAN AND PROFILE

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: LPC	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 9 OF 19



RECORD OF REVISIONS



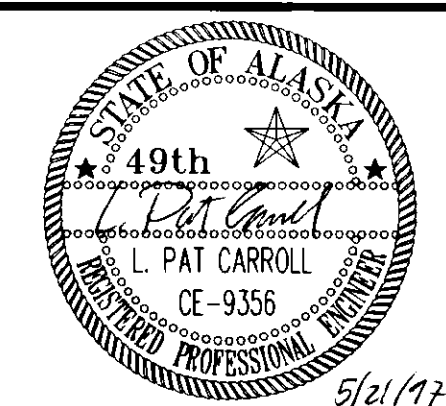
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

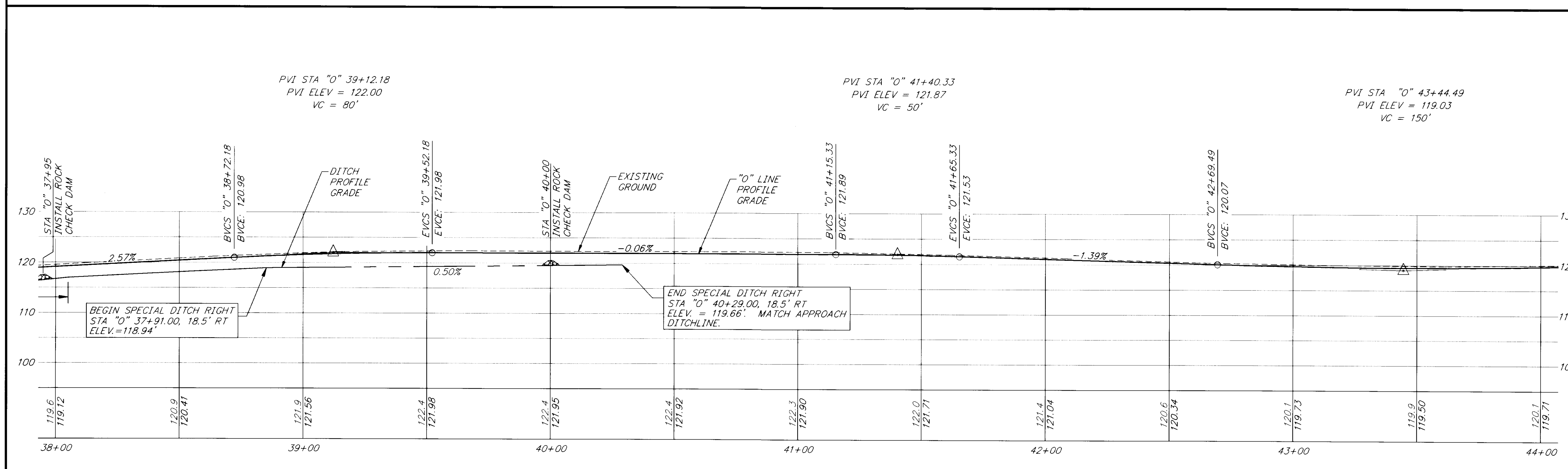
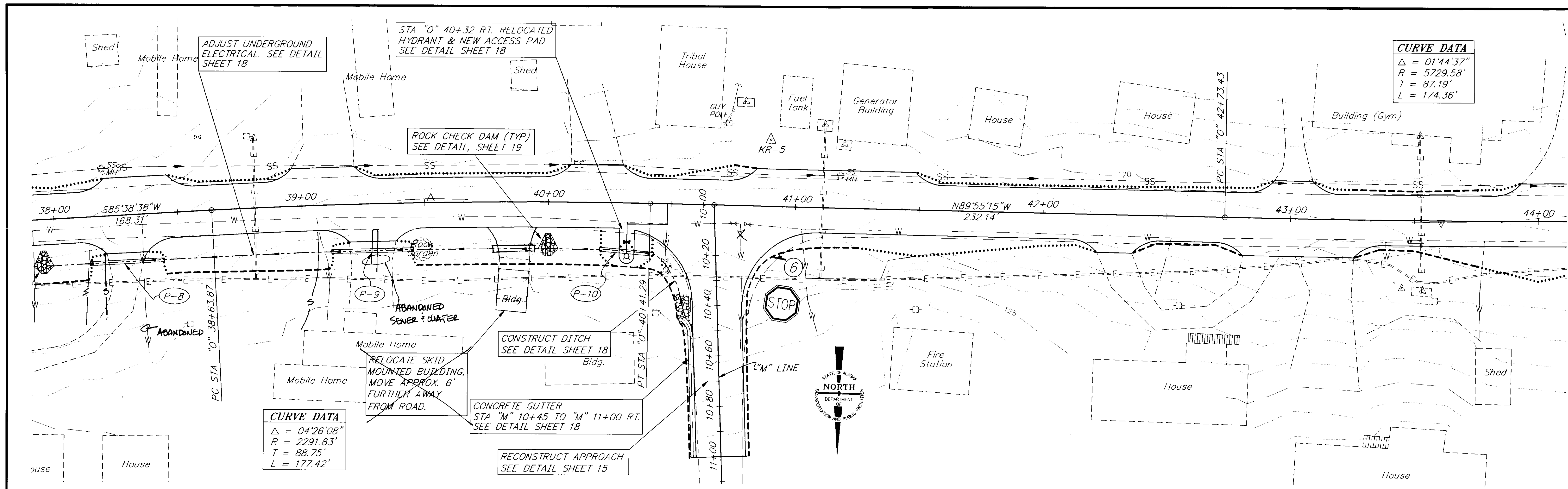
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P: \HNS\1022\DR\SETUP	1-20	
BY:		

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

KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP - 0003(38) ~ PROJECT NO. 71622
 ALASKA
STA. "0" 32+00 TO STA. "0" 38+00
 PLAN AND PROFILE

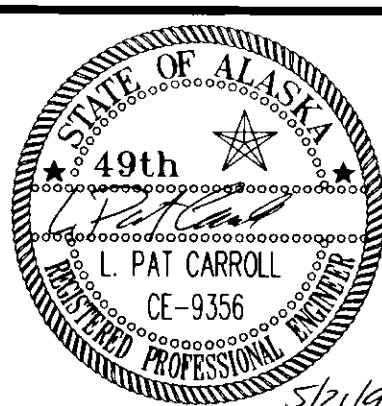
DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: LPC	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 10 OF 19





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

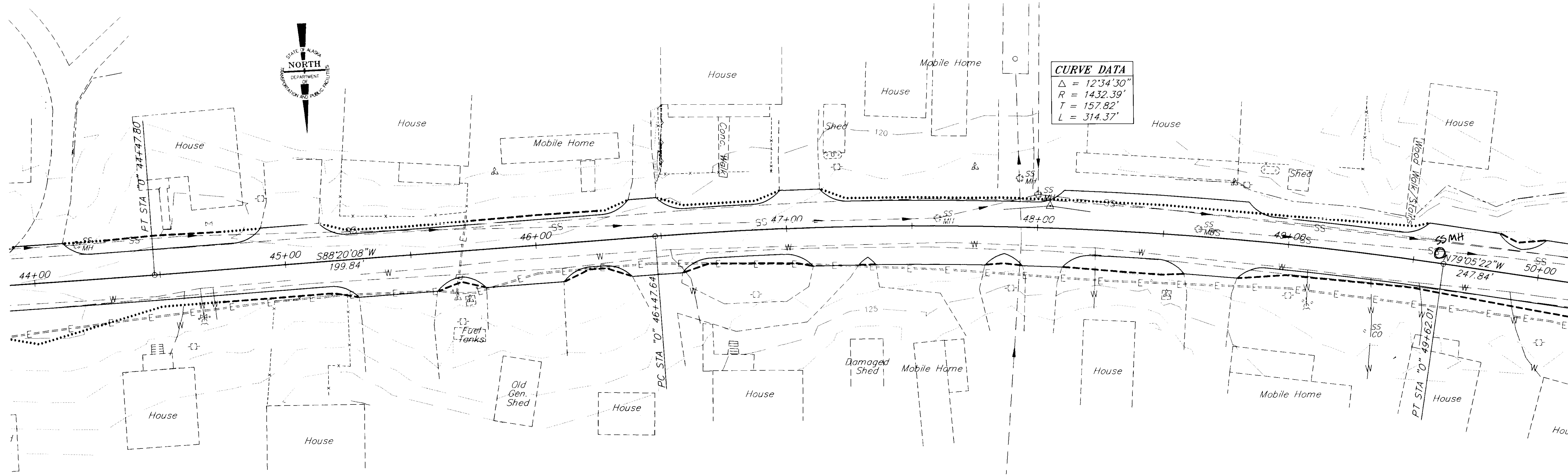
PATH: P:\HNS\1622\DR-SETUP BY: DATE: DESCRIPTION OF CHANGE:	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION DESIGN & CONSTRUCTION	KLUKWAN KLUKWAN ROAD REHABILITATION STP - 0003(38) ~ PROJECT NO. 71622 STA. "O" 38+00 TO STA. "O" 44+00 PLAN AND PROFILE	ALASKA DESIGNED BY: LPC DRAWN BY: LPC CHECKED BY: CNM	PROJECT NO. 71622 DATE: APRIL, 1997 SHEET 11 OF 19
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RECORD OF REVISIONS



CURVE DATA	
$\Delta = 123^{\circ}34'30''$	
$R = 1432.39'$	
$T = 157.82'$	
$L = 314.37'$	

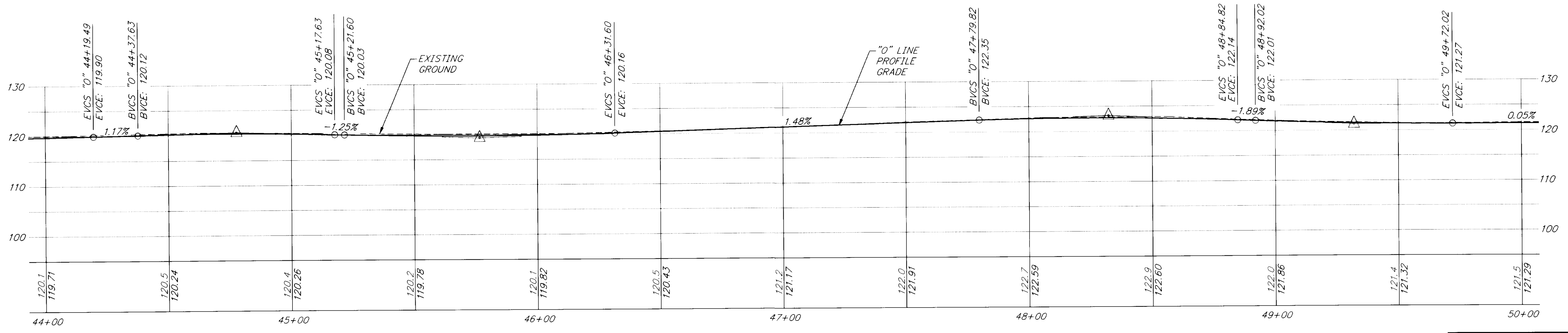


PVI STA "O" 44+77.63
PVI ELEV = 120.58
VC = 80'

PVI STA "O" 45+76.60
PVI ELEV = 119.35
VC = 110'

PVI STA "O" 48+32.32
PVI ELEV = 123.13
VC = 105'

PVI STA "O" 49+32.02
PVI ELEV = 121.25
VC = 80'



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

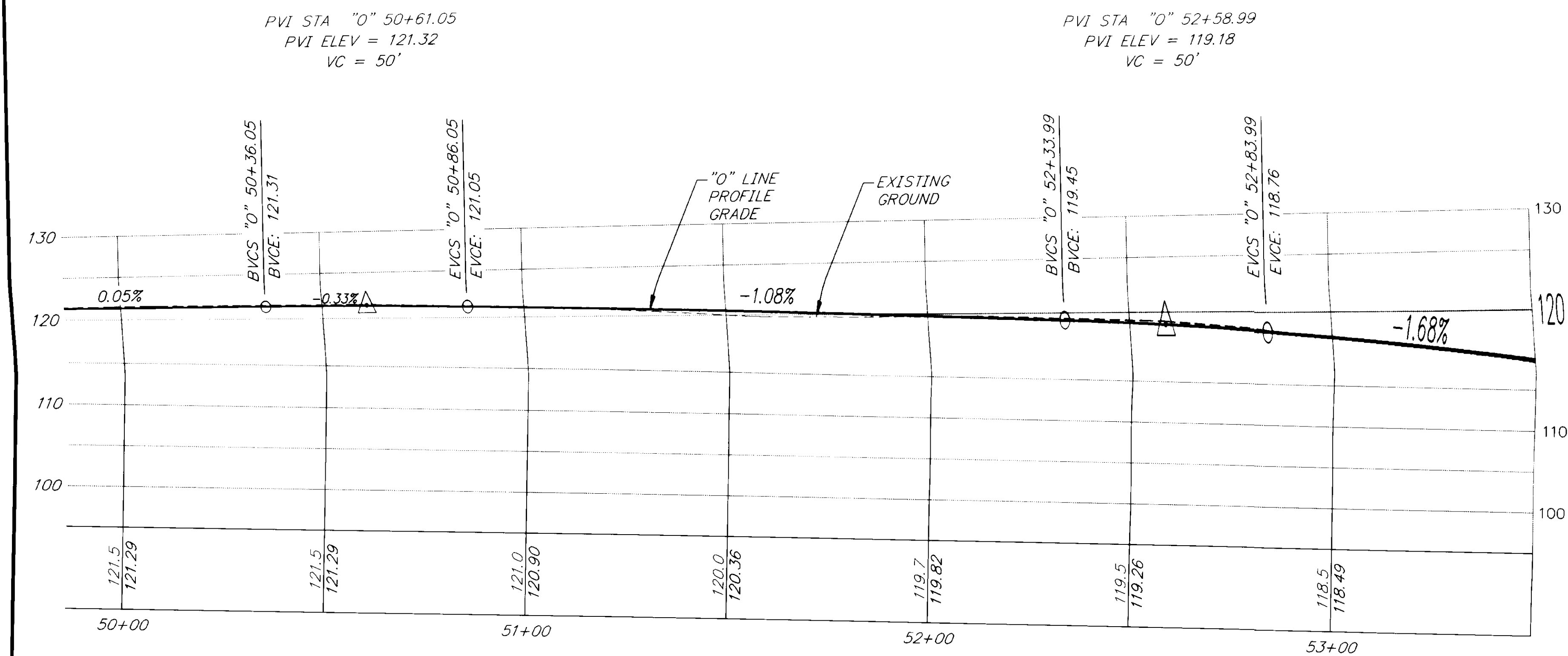
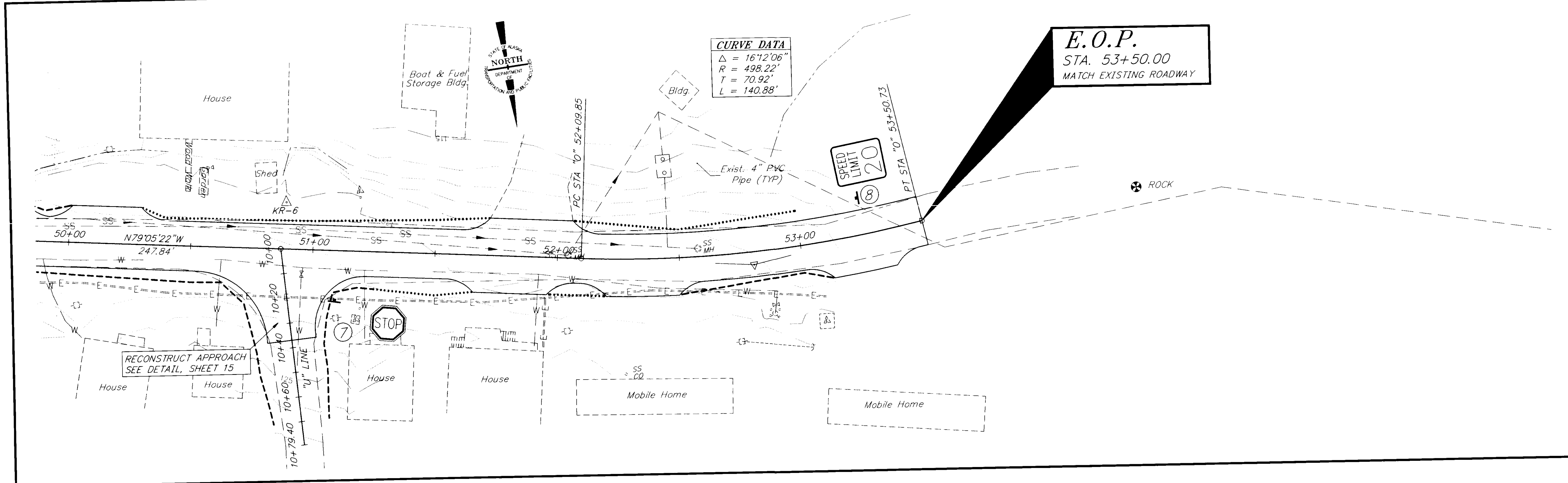
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BY:	DATE:
DESCRIPTION OF CHANGE:	
RECORD OF REVISIONS	

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

KLUKWAN ALASKA
KLUKWAN ROAD REHABILITATION
STP - 0003(38) ~ PROJECT NO. 71622
STA. "O" 44+00 TO STA. "O" 50+00
PLAN AND PROFILE

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: LPC	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 12 OF 19





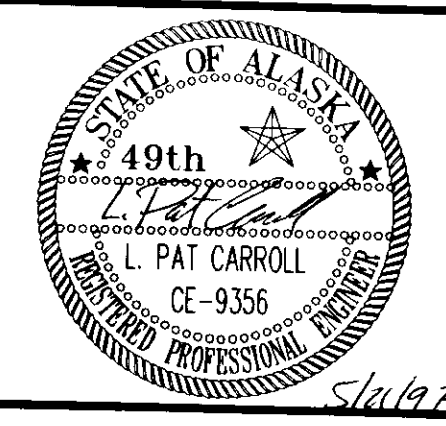
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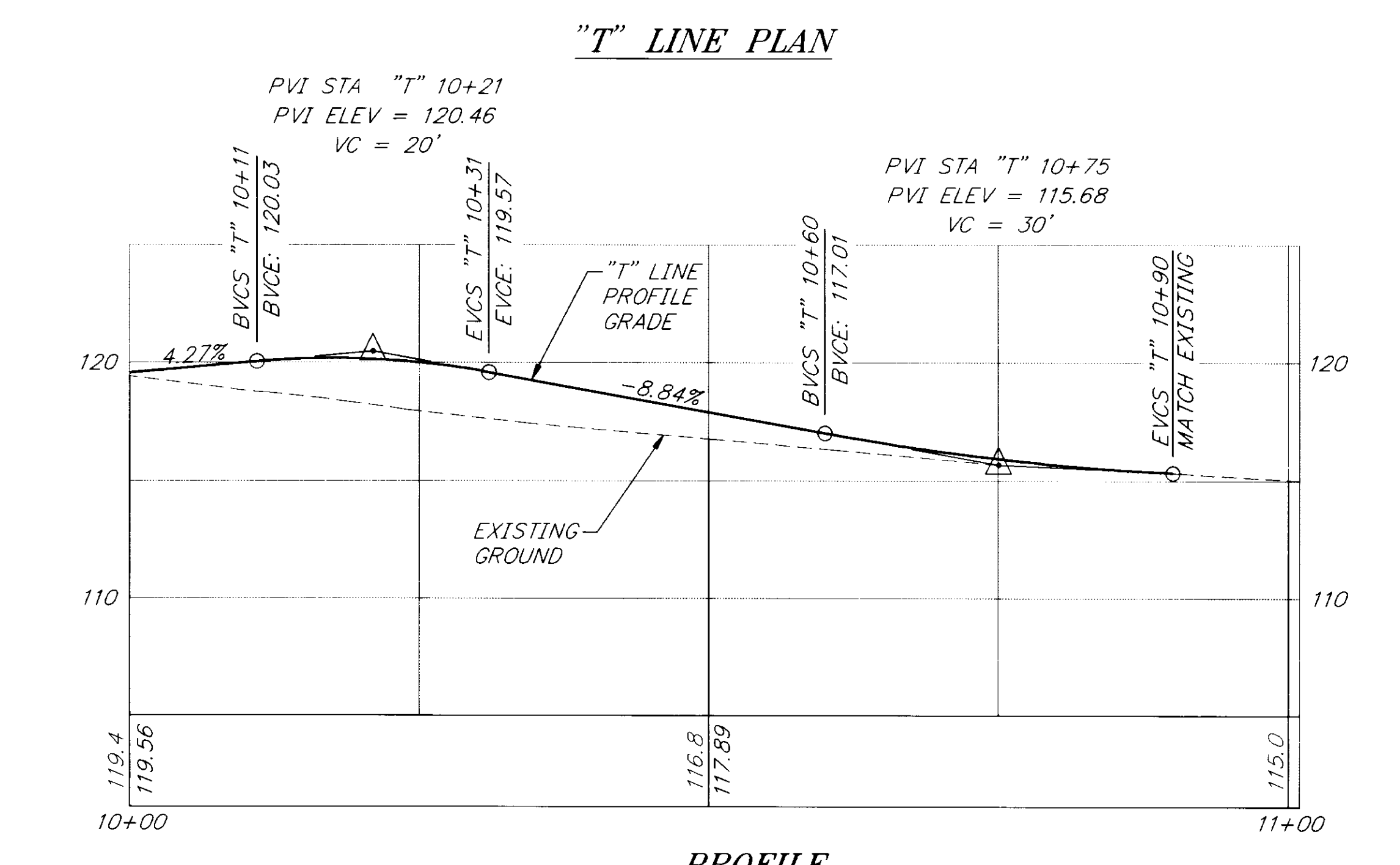
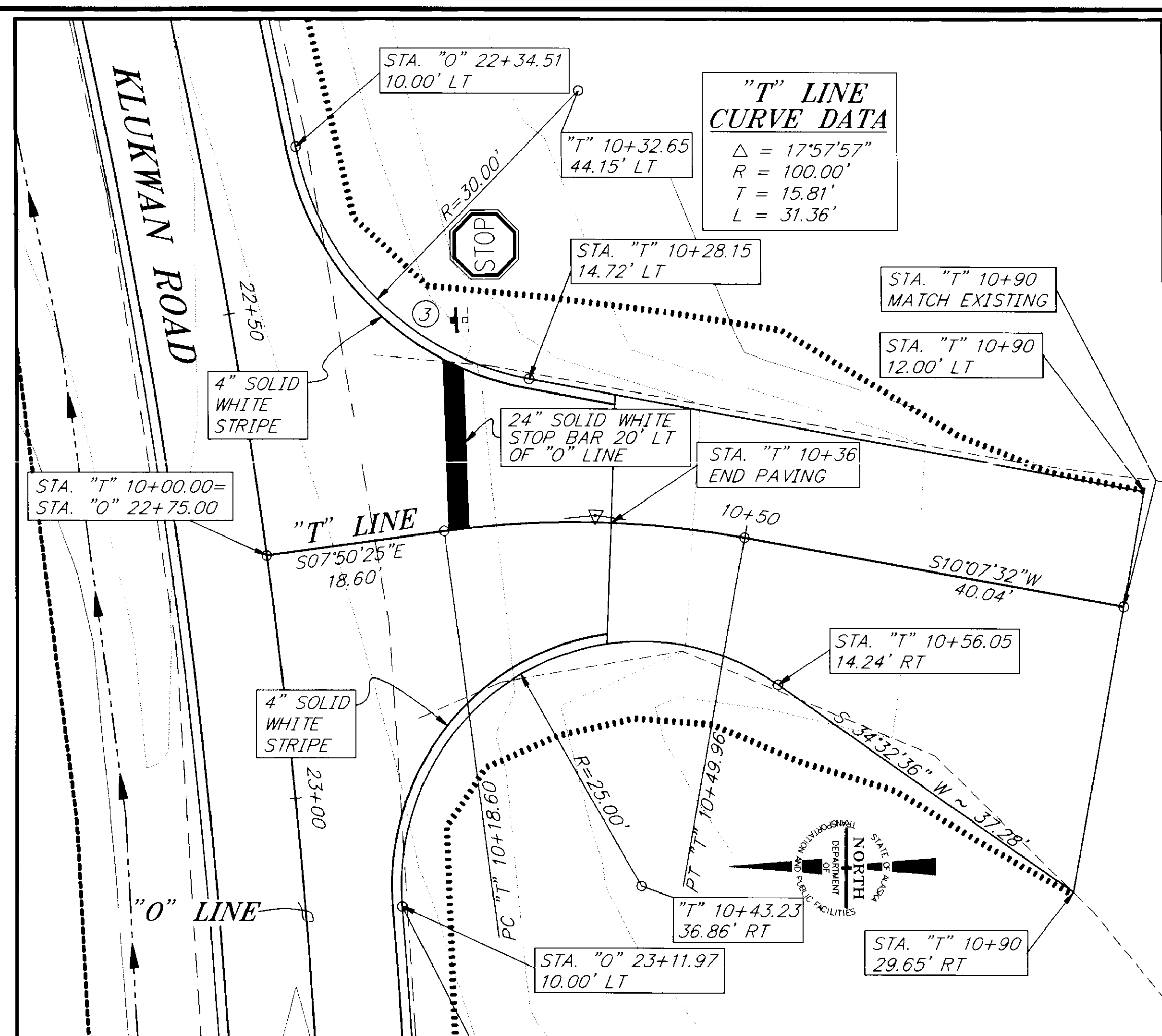
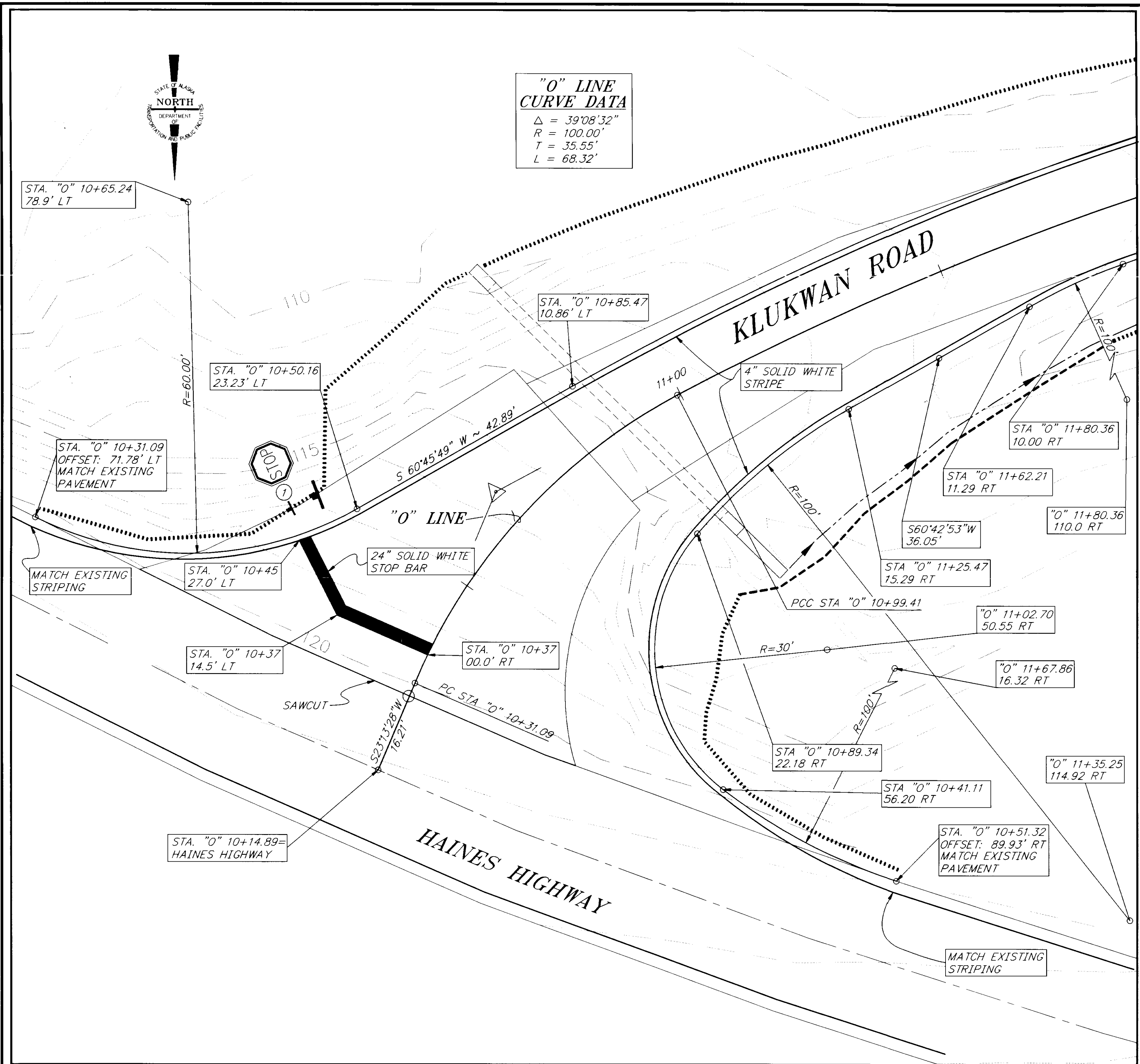
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP - 0003(38) ~ PROJECT NO. 71622
 STA. "O" 50+00 TO EOP
 PLAN AND PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: LPC	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 13 OF 19





**KLUKWAN ROAD/HAINES HIGHWAY
INTERSECTION LAYOUT PLAN**

FOR PROFILE SEE SHEET 6

PATH: P:\HNS\71622\DR\APP1		
PLOT: P:\-LIB\-PLOT\PLOT.PCP(10) OR PLOT.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

KLUKWAN

KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622

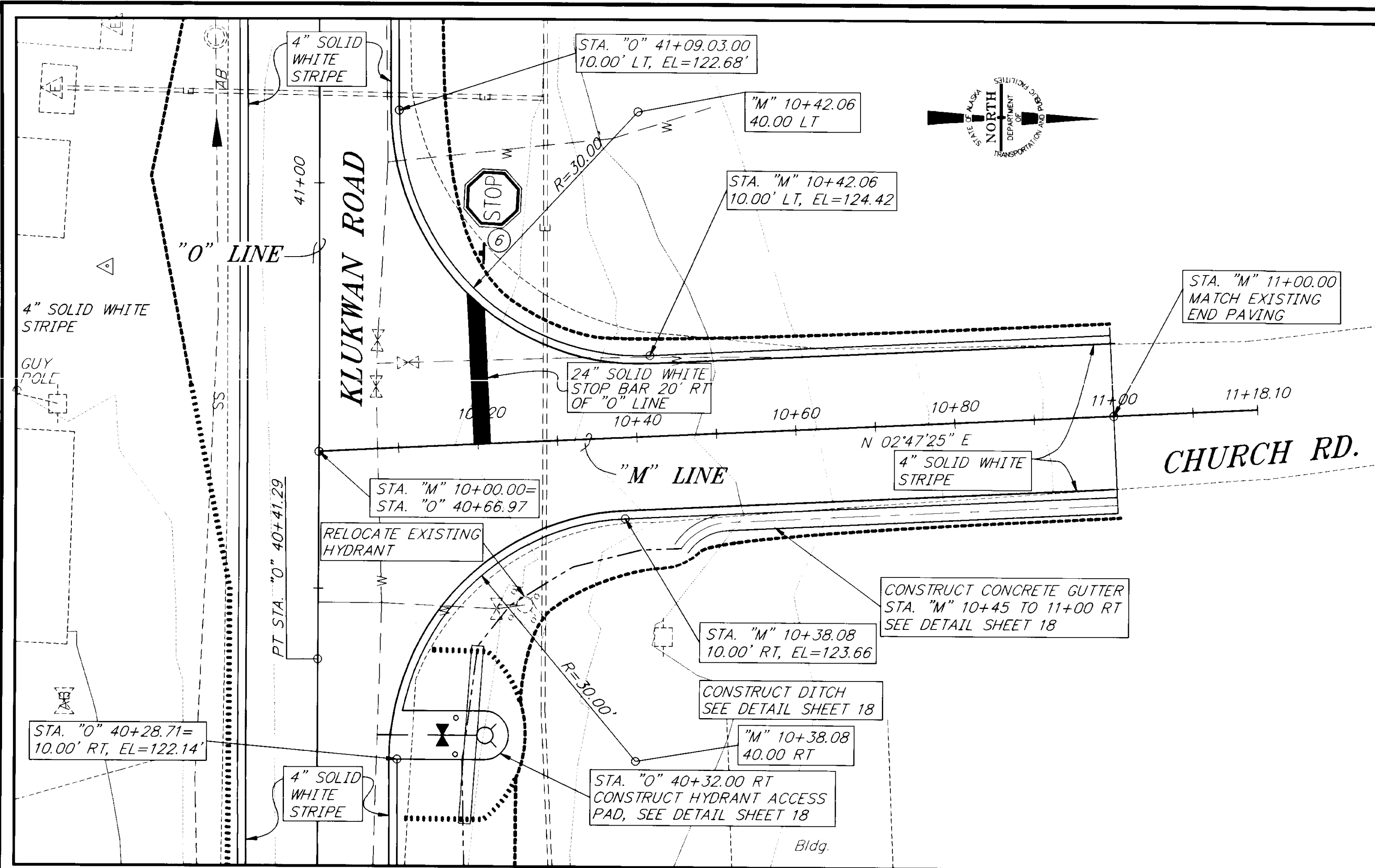
APPROACH DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

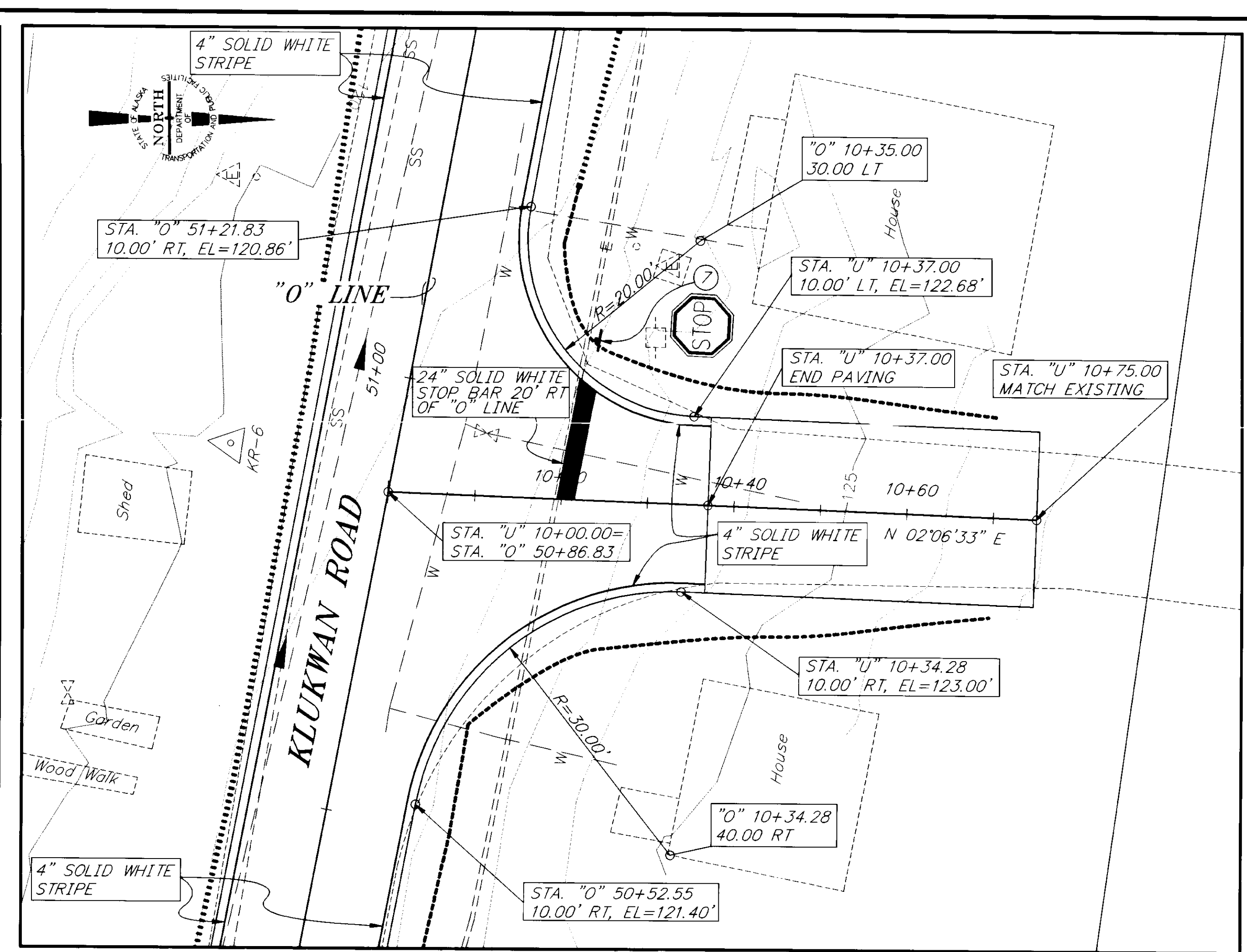
ALASKA

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 14 OF 19

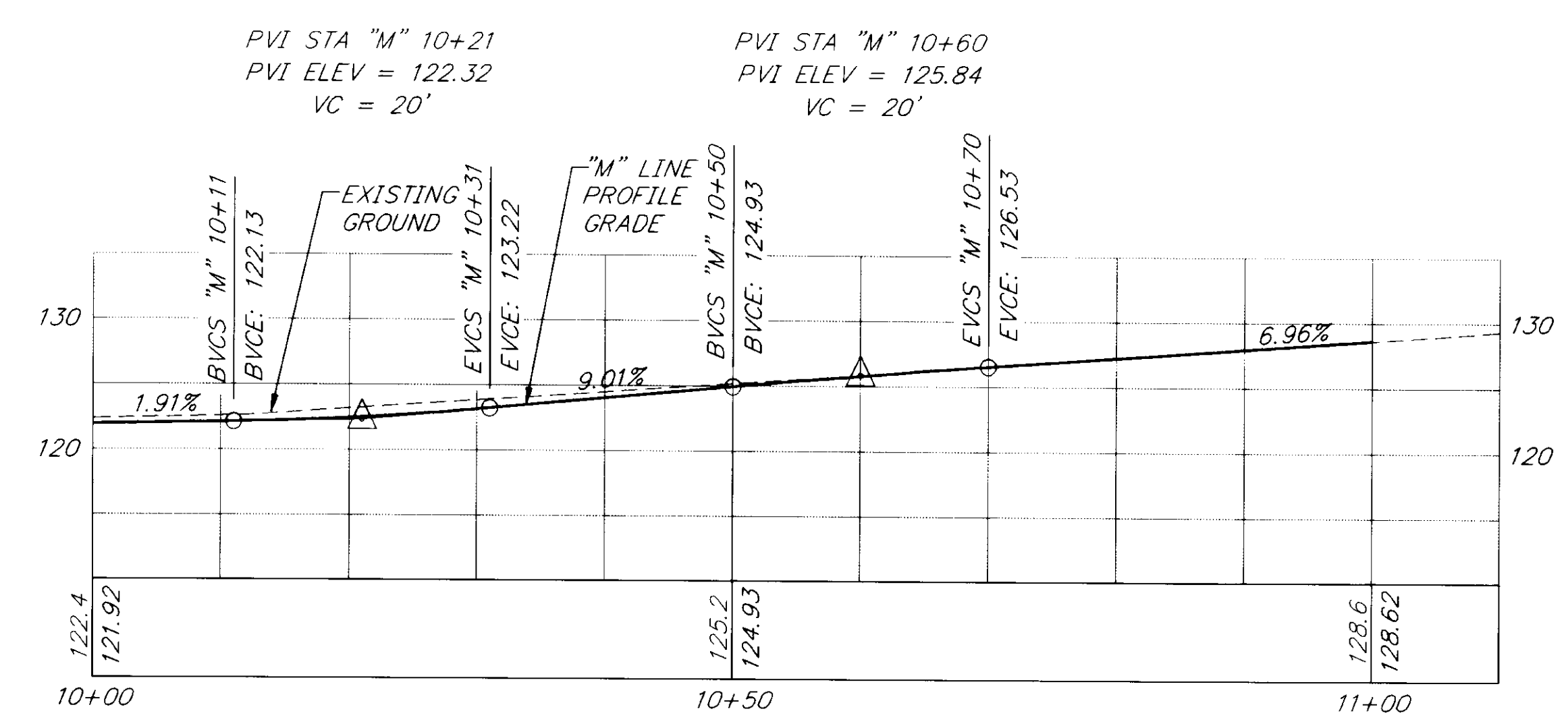




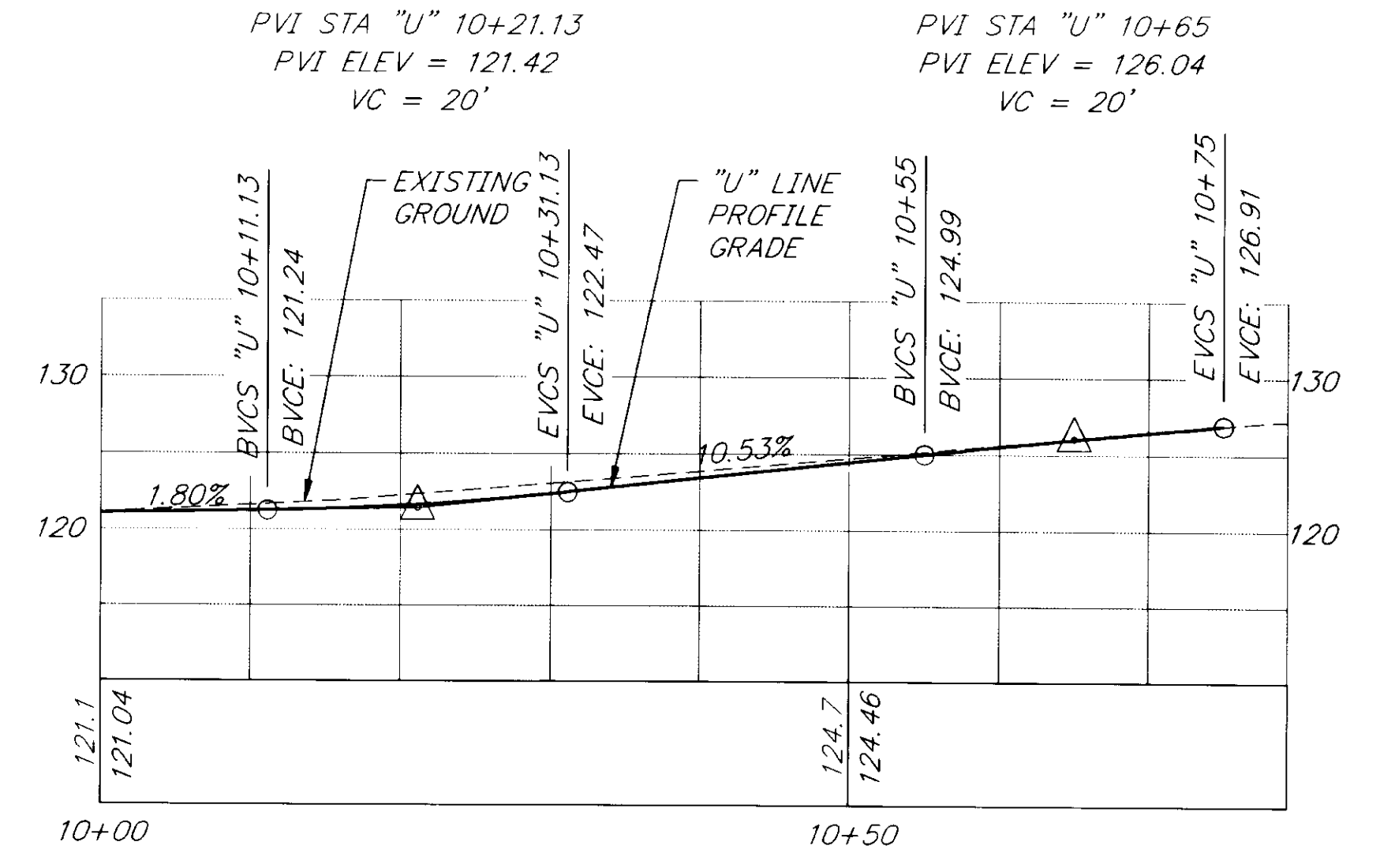
"M" LINE PLAN



"U" LINE PLAN



PROFILE
CHURCH ROAD



PROFILE
ROAD TO UPPER VILLAGE

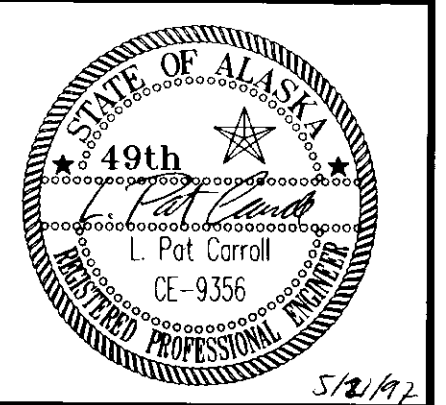
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BY:	DATE:	DESCRIPTION OF CHANGE:

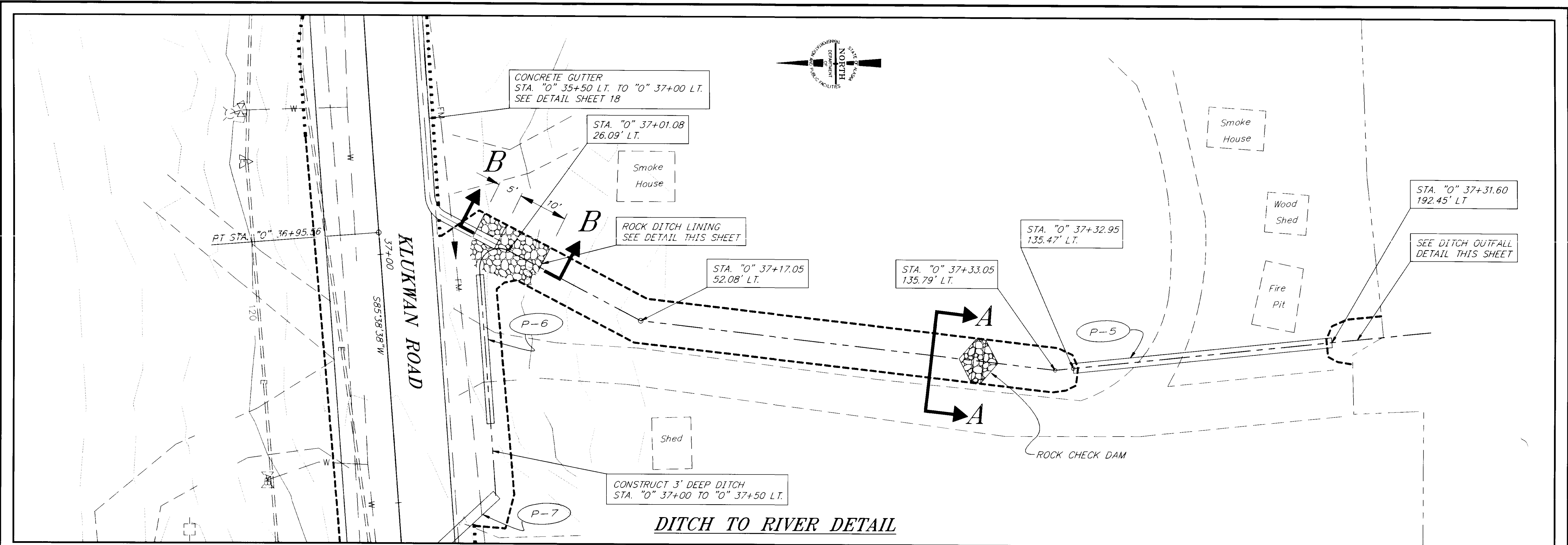
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KLUKWAN
KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622
ALASKA
APPROACH DETAILS

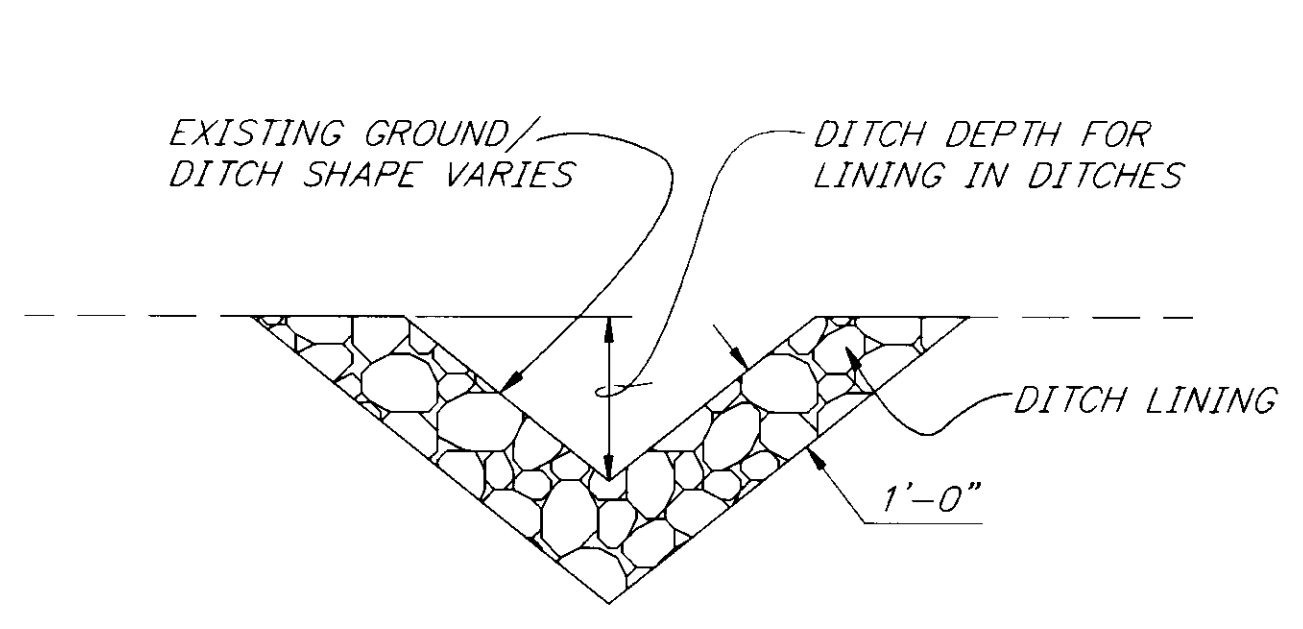
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 15 OF 19

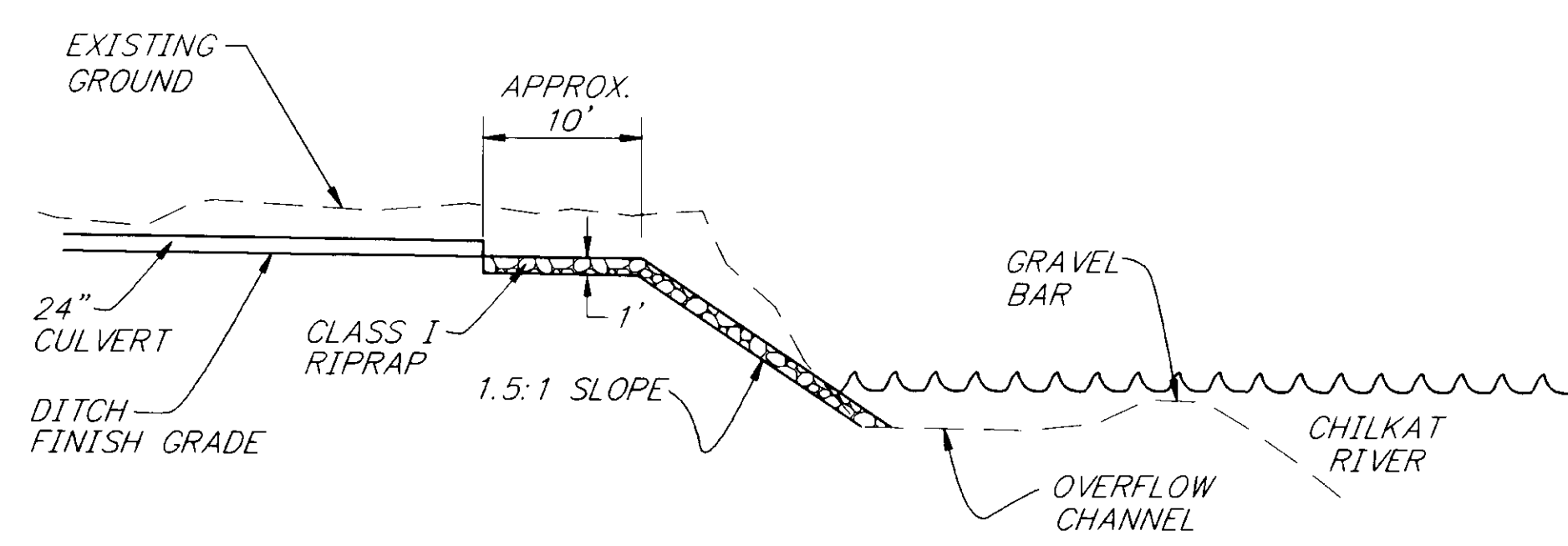




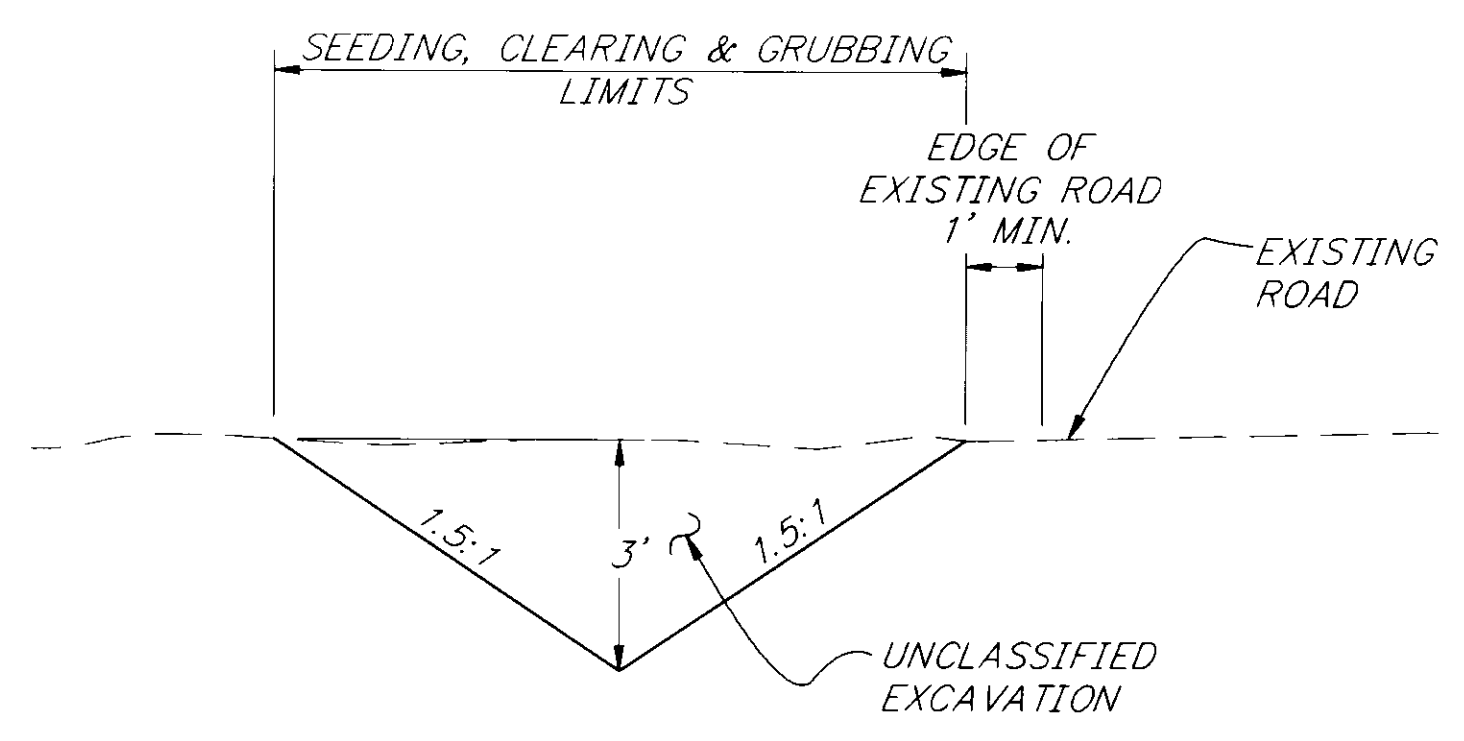
DITCH TO RIVER DETAIL



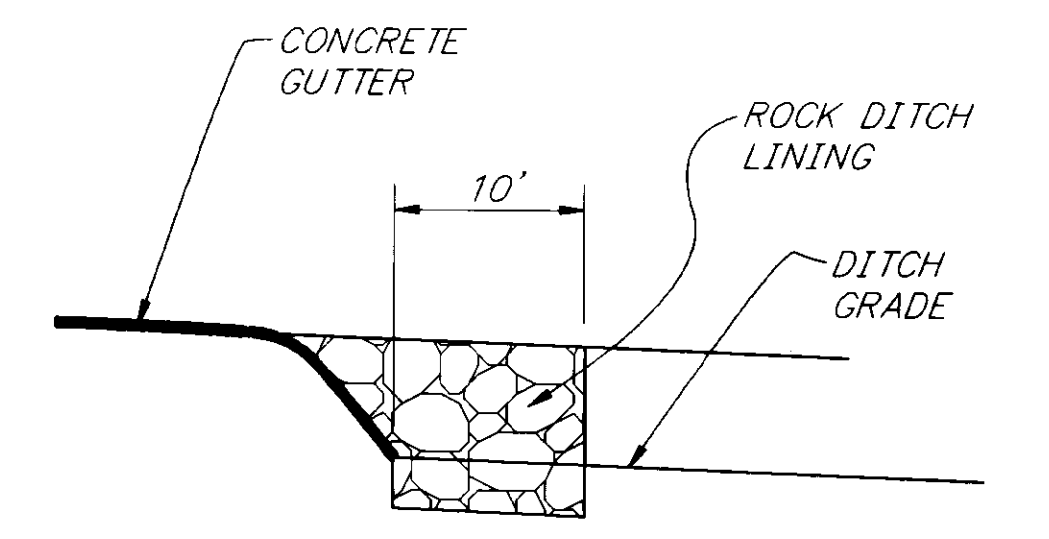
DITCH LINING DETAIL



DITCH OUTFALL DETAIL



DITCH SECTION A-A



SECTION B-B

PATH: P:\HNS\71622\DR\ -DRAIN2		
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(10) OR PLOT.F.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

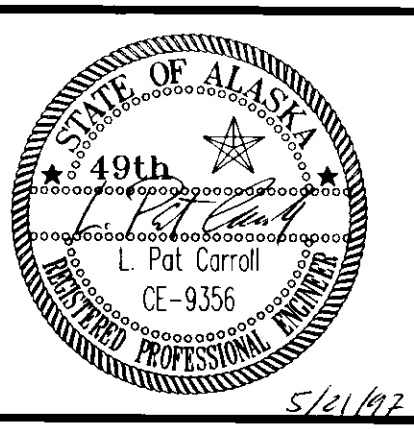
KLUKWAN

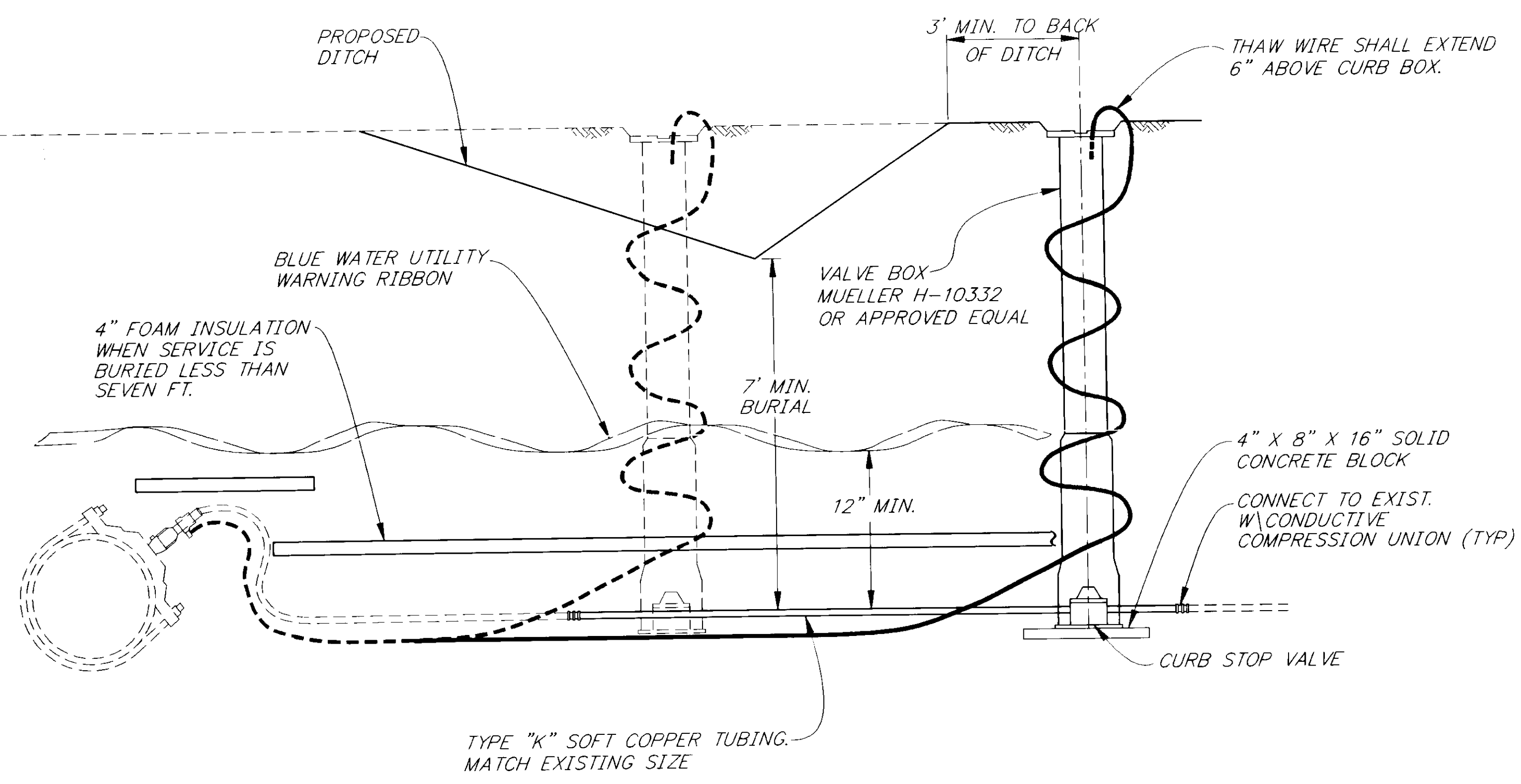
KLUKWAN ROAD REHABILITATION
 STP-0003(38) ~ PROJECT NO. 71622

DRAINAGE DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 16 OF 19

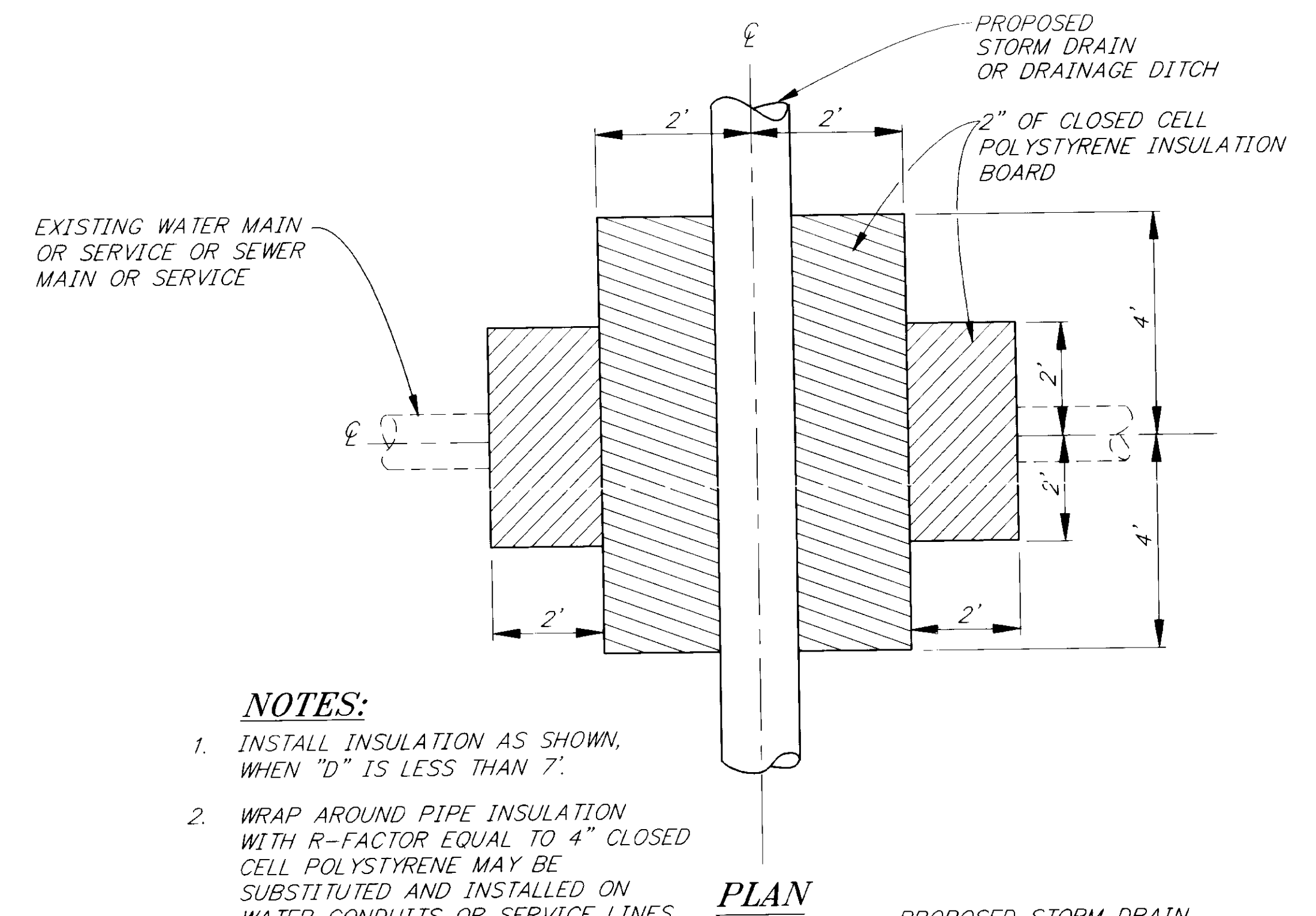




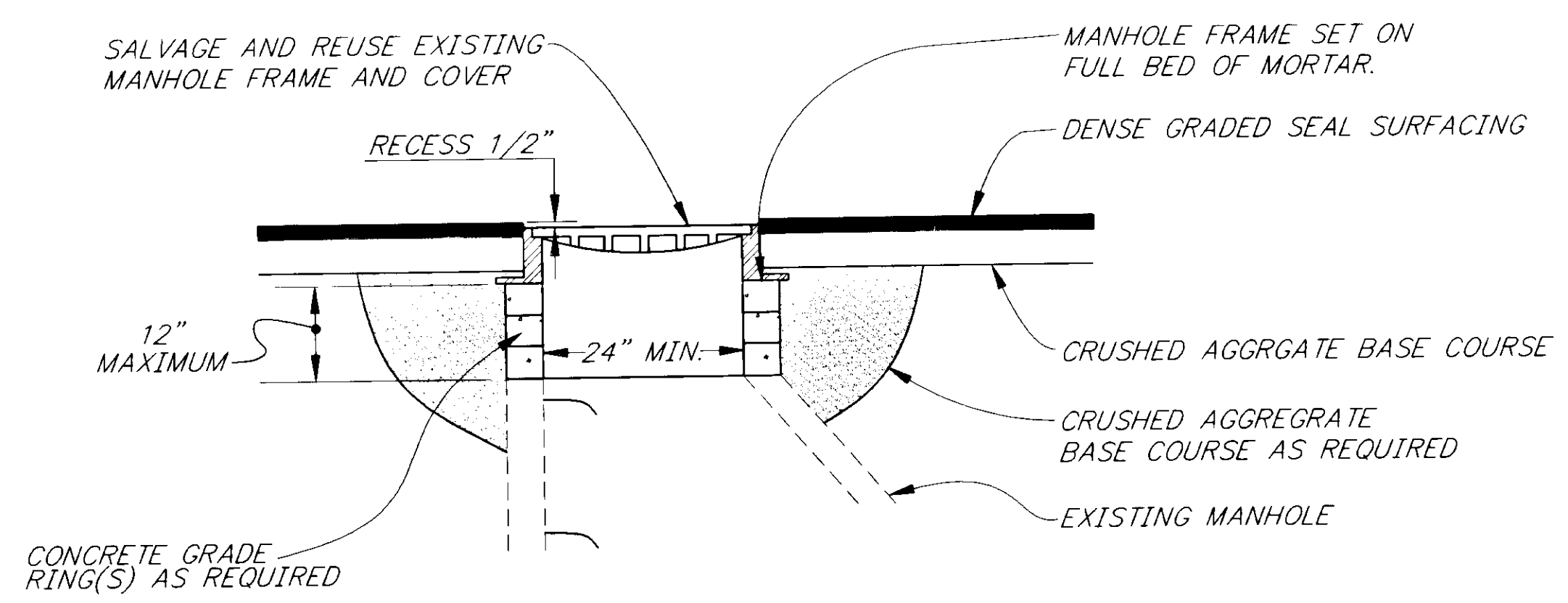
WATER SERVICE RECONSTRUCTION DETAIL

WATER SERVICE NOTES

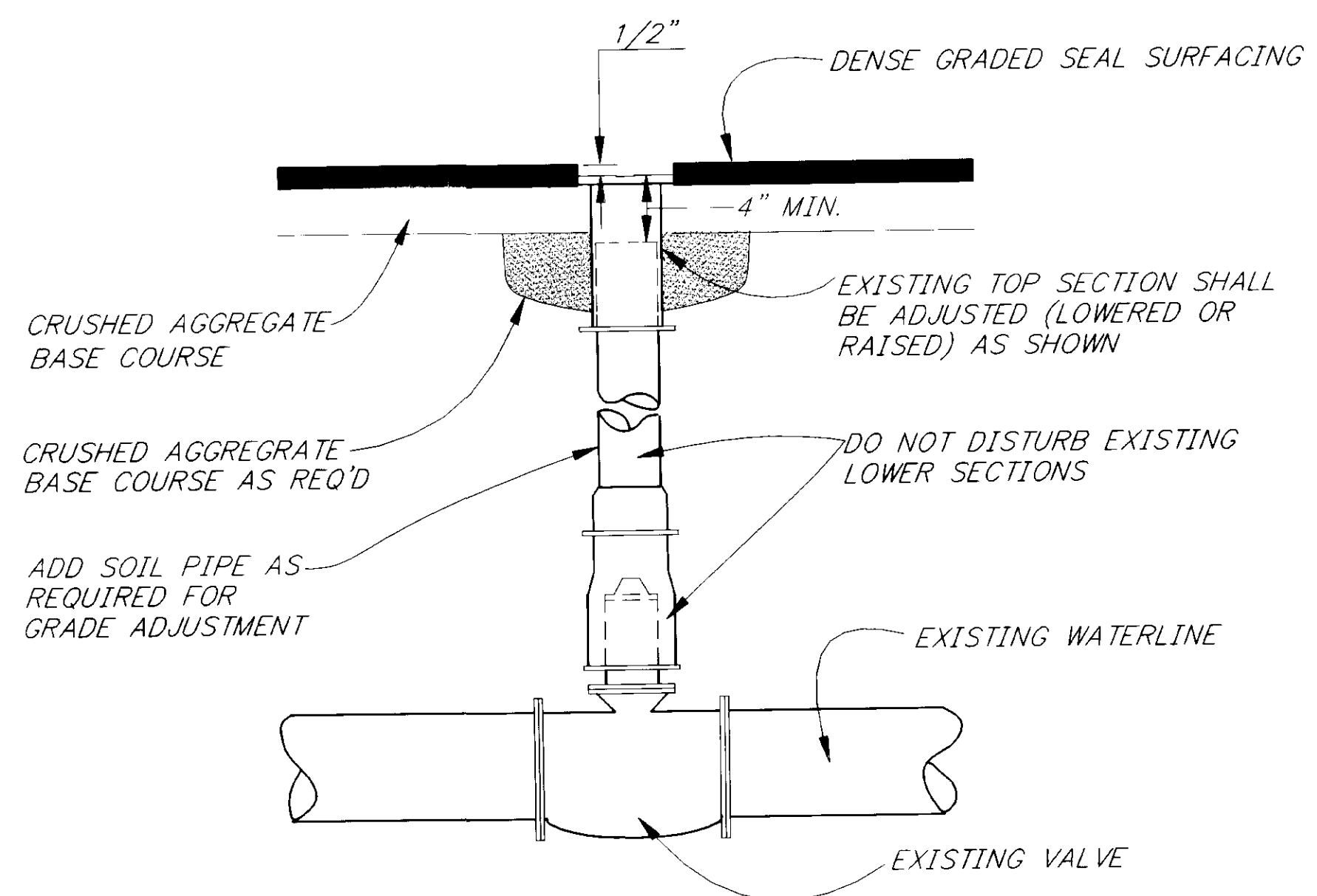
1. COPPER TUBE SPLICES SHALL BE FLARED MECHANICAL CONNECTIONS.
2. EXISTING VALVE BOX AND CURB STOP VALVE MAY BE REUSED IF IN SERVICABLE CONDITION. ANY NEW PARTS REQUIRED SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM COMPONENTS.
3. THAW WIRE SHALL BE WOUND AROUND OUTSIDE OF CURB BOX.
4. ALL SERVICES MUST BE 7" BELOW DITCH LINE OR CULVERTS, OR INSULATION SHALL BE REQUIRED. SEE INSULATION DETAIL THIS SHEET.



- NOTES:**
1. INSTALL INSULATION AS SHOWN, WHEN "D" IS LESS THAN 7'.
 2. WRAP AROUND PIPE INSULATION WITH R-FACTOR EQUAL TO 4" CLOSED CELL POLYSTYRENE MAY BE SUBSTITUTED AND INSTALLED ON WATER CONDUITS OR SERVICE LINES IF APPROVED BY THE ENGINEER.

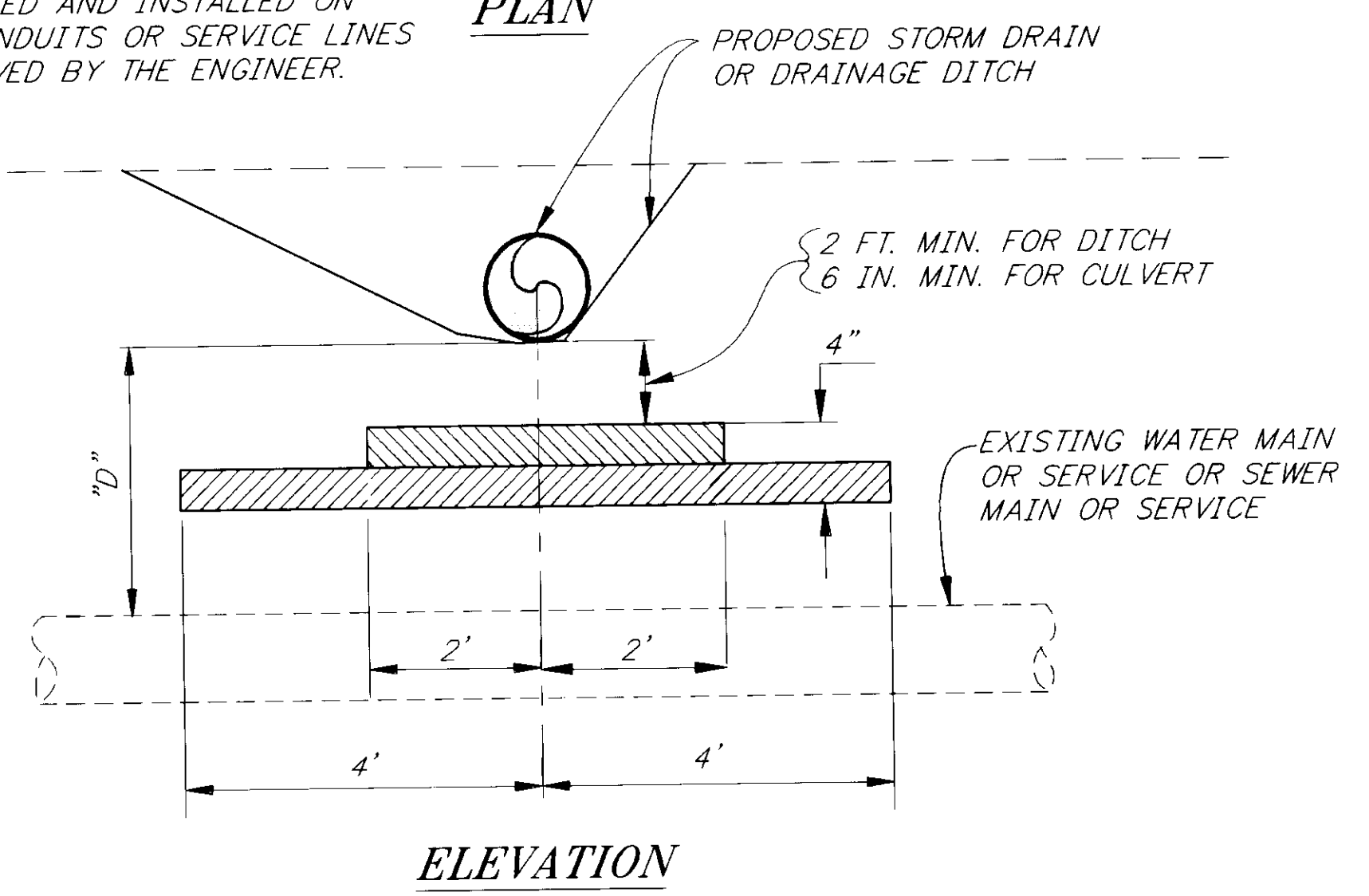


SEWER MANHOLE ADJUSTMENT DETAIL



VALVE BOX ADJUSTMENT DETAIL

INSULATION AT CULVERT OR DITCH DETAIL



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\HNS\71622\DR\DET1		
PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:

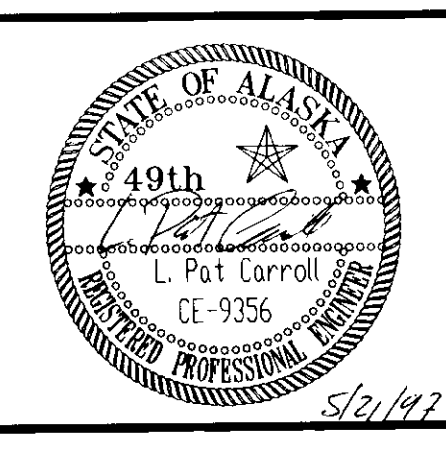
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

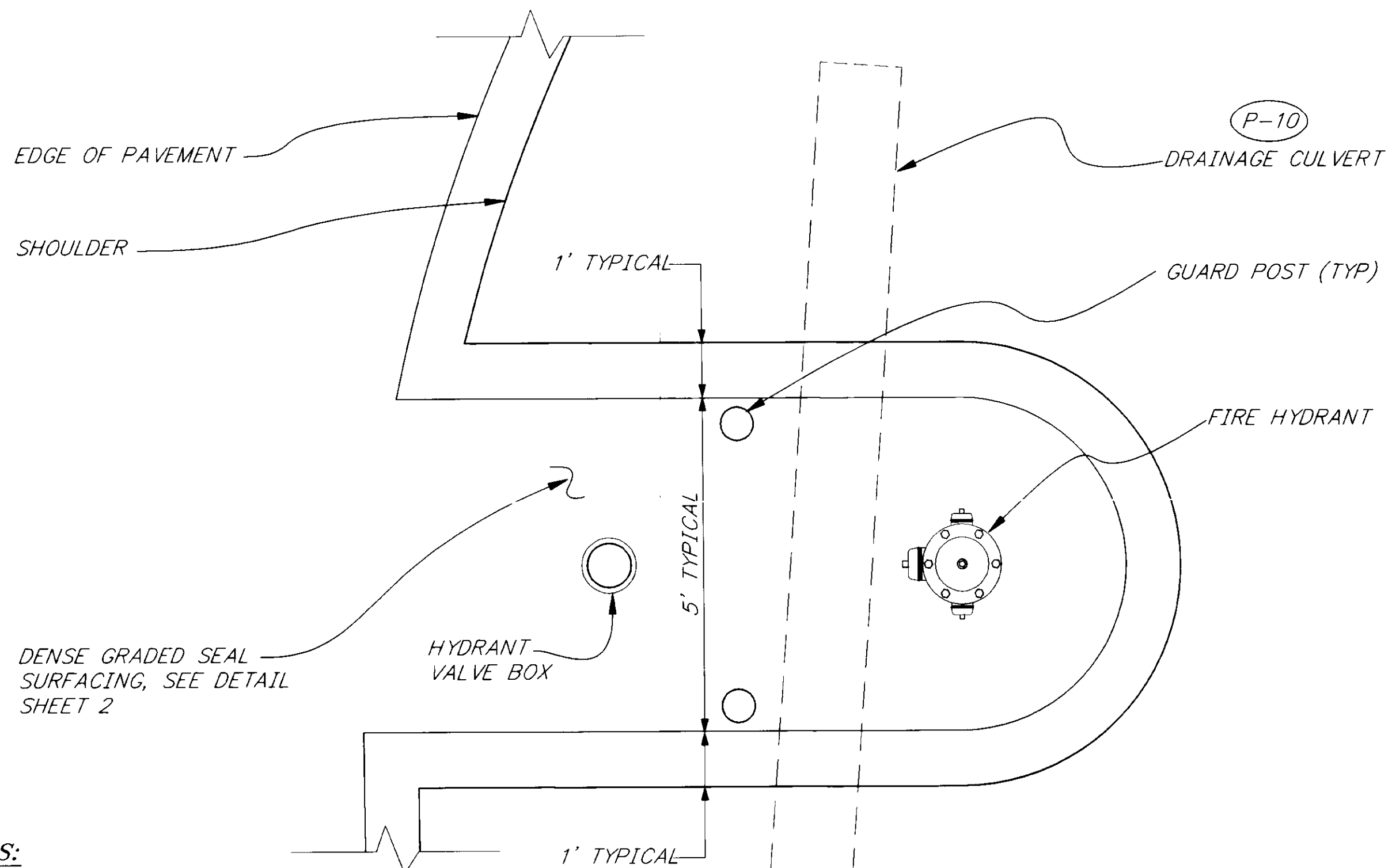
KLUKWAN
 KLUKWAN ROAD REHABILITATION
 STP-0003(38) ~ PROJECT NO. 71622

MISCELLANEOUS DETAILS

DESIGNED BY: LPC
 DRAWN BY: RKS/CSA
 CHECKED BY: CNM

PROJECT NO. 71622
 DATE: APRIL, 1997
 SHEET 17 OF 19

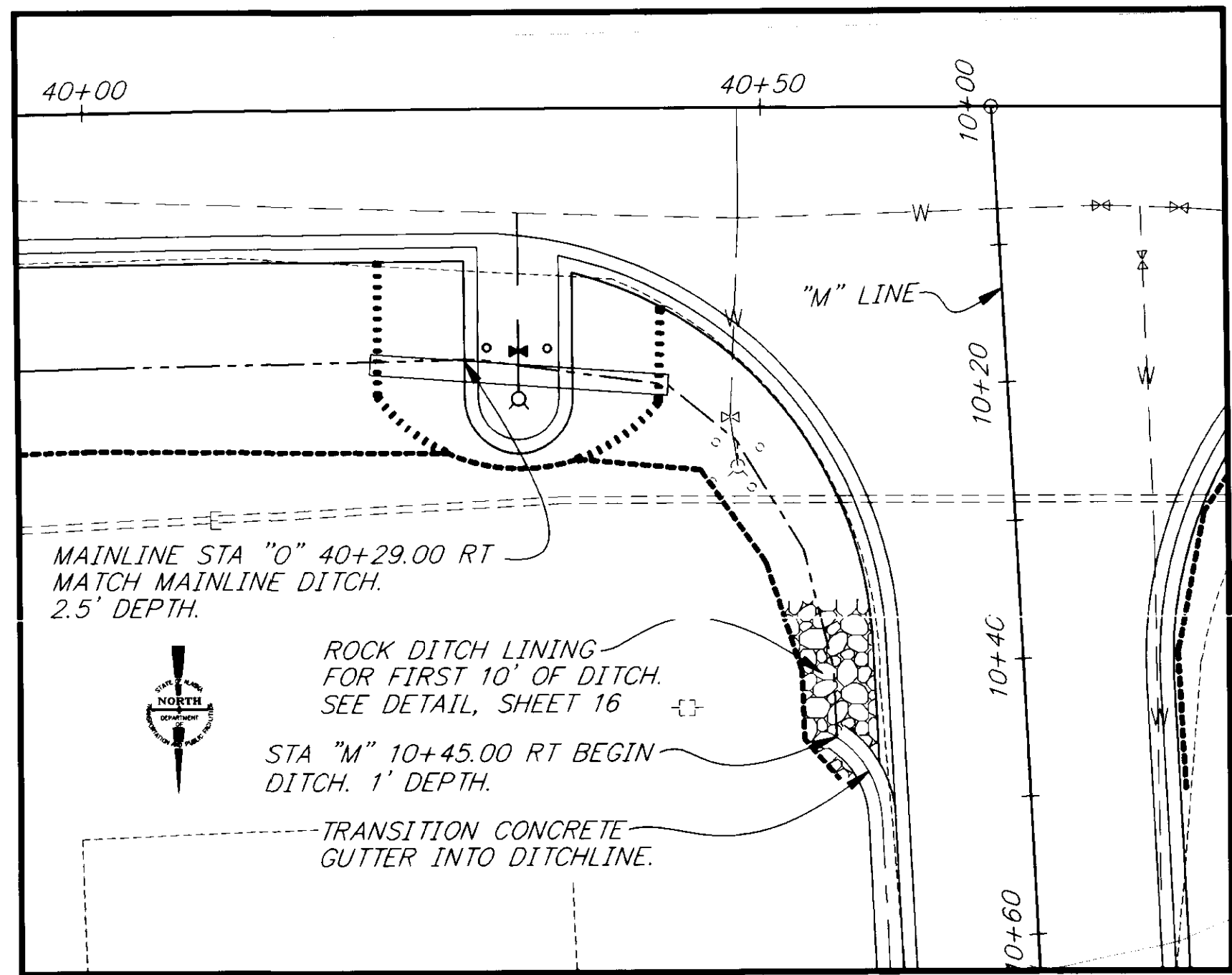




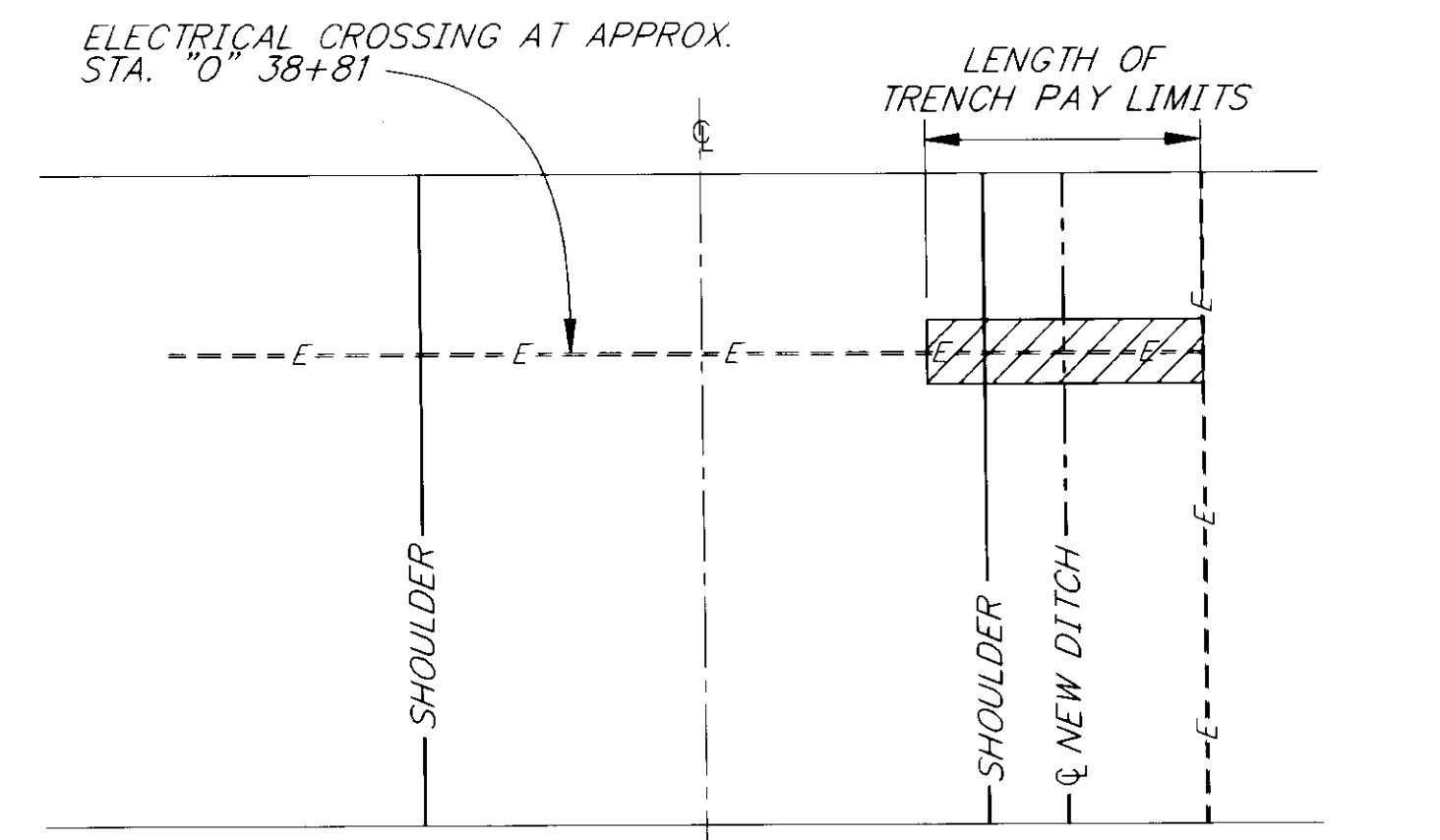
NOTES:

- ACCESS PAD TO BE 7' WIDE MINIMUM.
- BACKFILL ACCESS PAD WITH CRUSHED AGGREGATE BASE COURSE.
- GUARD POSTS SHALL BE FILLED FLUSH WITH CONCRETE AND PAINTED WITH OSHA YELLOW ENAMEL AFTER INSTALLATION.
- GUARD POSTS SHALL NOT BLOCK OPERATION OF VALVE.
- CONCRETE THRUST BLOCK SHALL HAVE MIN. CONCRETE VOLUME OF .3 cu. yd. AND MIN. BEARING AREA AGAINST SOIL OF 3 SQ. FT.
- CENTER OF MASS THRUST BLOCK MUST LAY OPPOSITE TO AND AGAINST THE DIRECTION OF THRUST.
- THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS REMAIN ACCESSIBLE.
- CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH. UNSTABLE OR UNSUITABLE MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED AS DETERMINED BY THE ENGINEER.

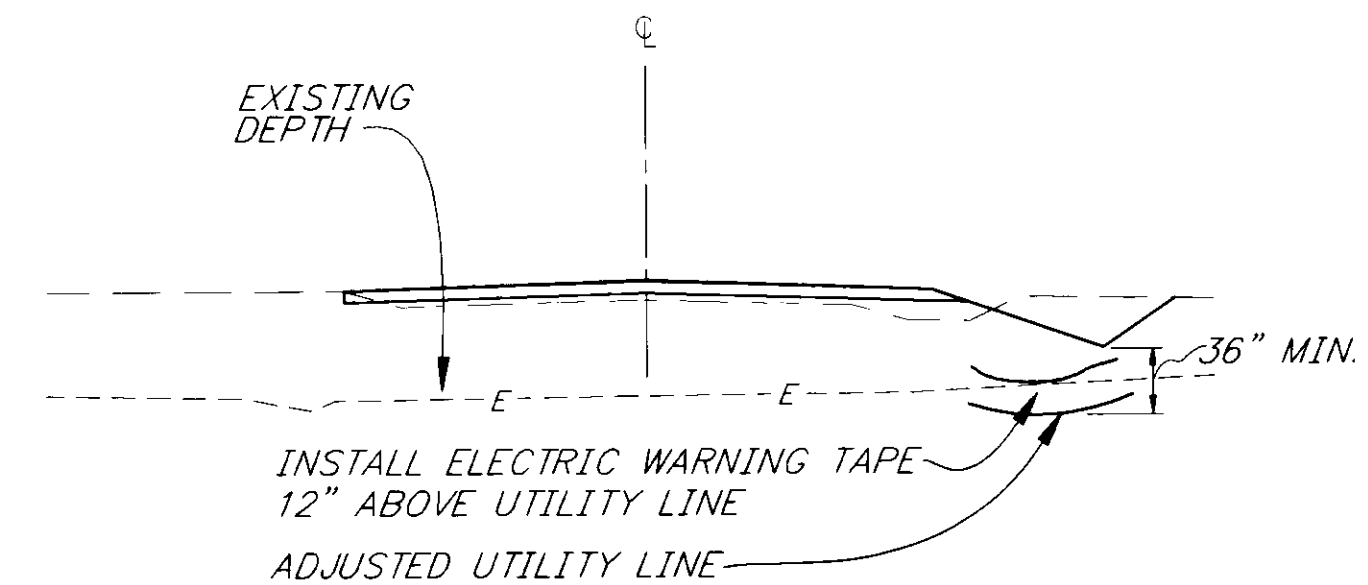
PLAN



DITCH DETAIL

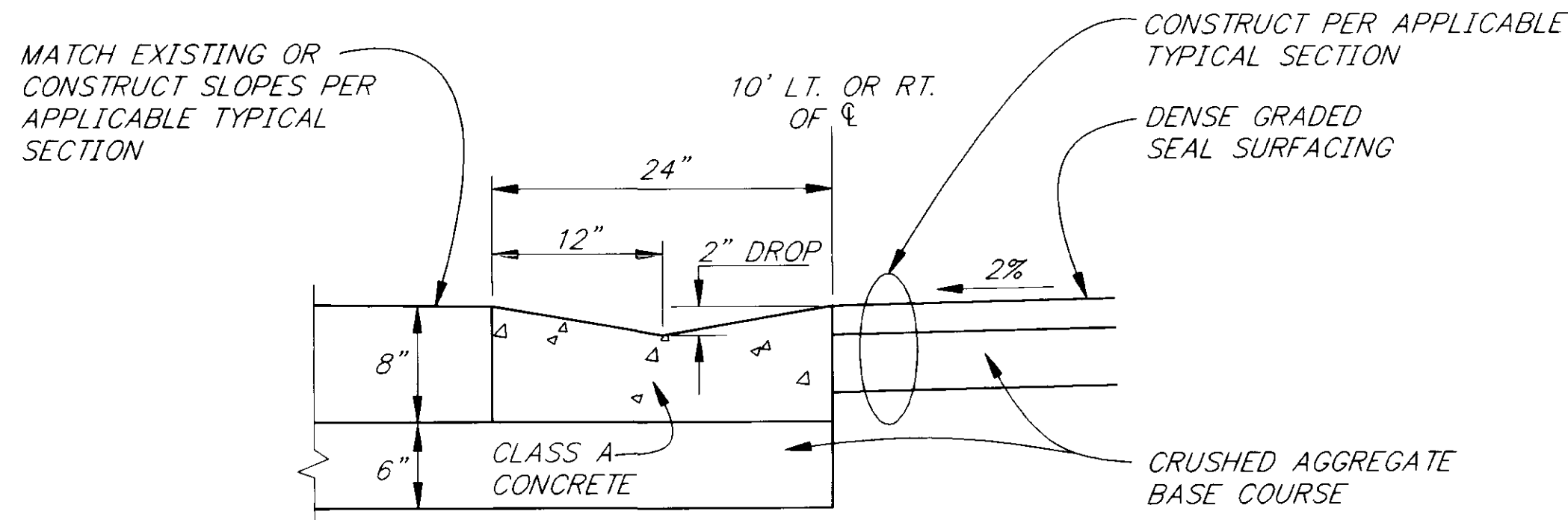


PLAN

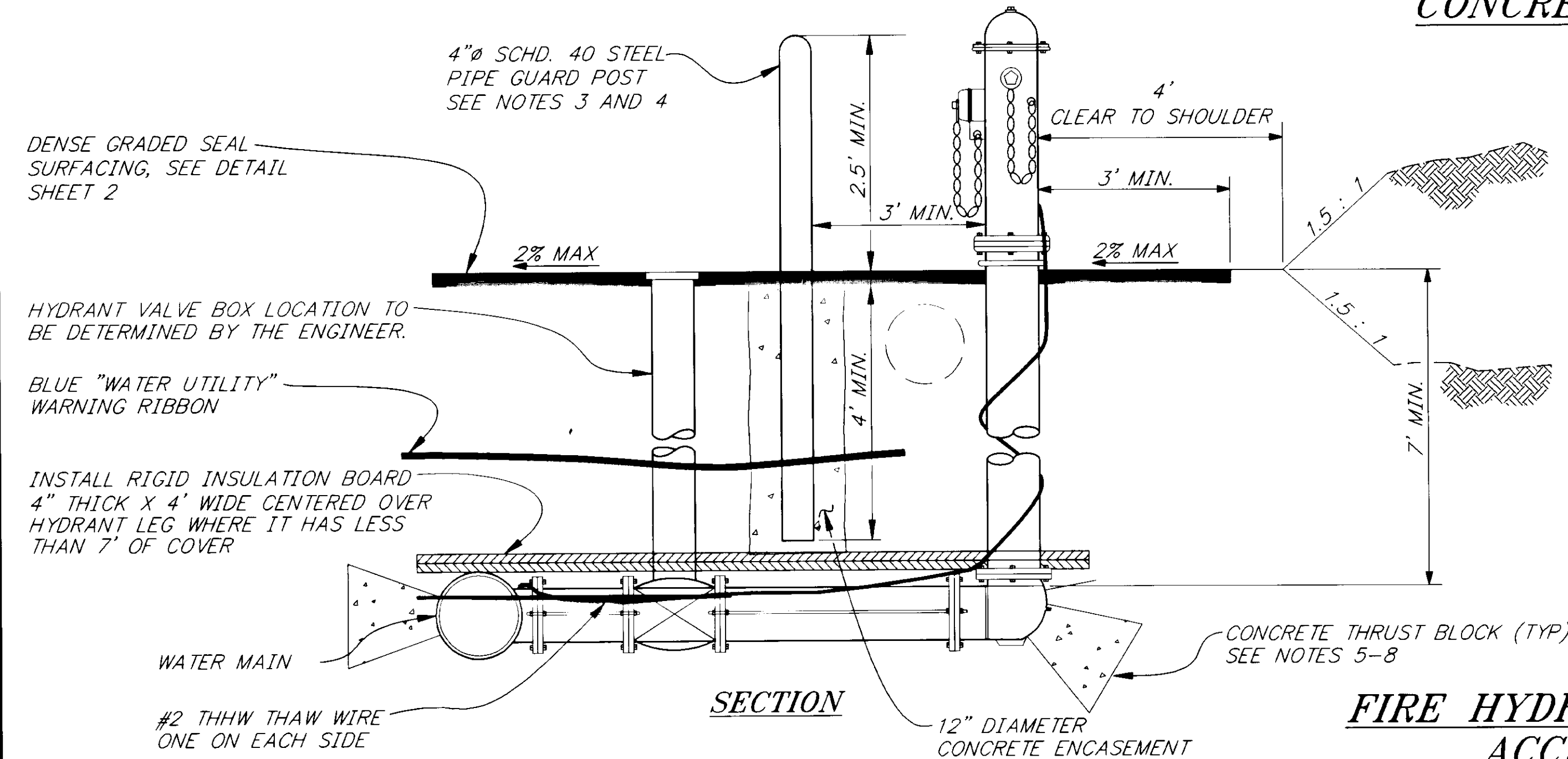


CROSS SECTION

UNDERGROUND UTILITY ADJUSTMENT

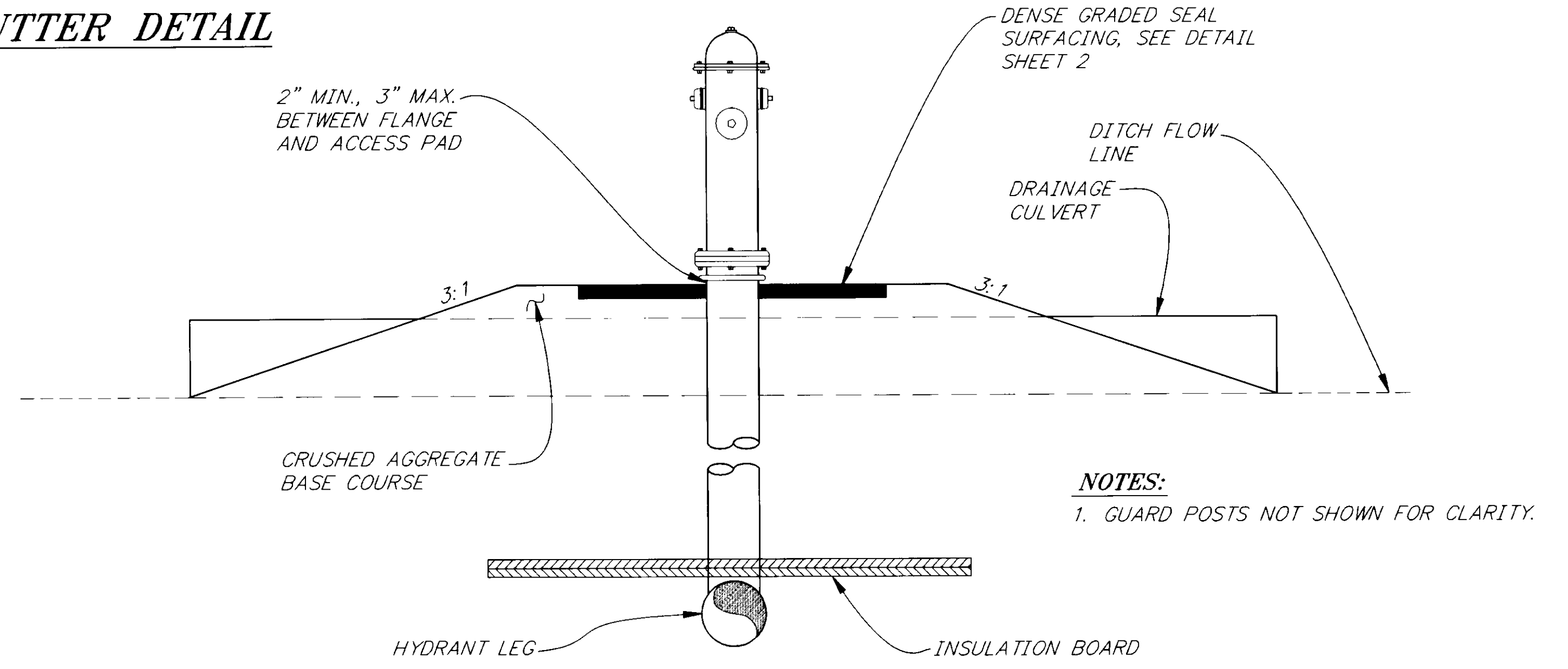


CONCRETE GUTTER DETAIL



SECTION

FIRE HYDRANT RELOCATION AND ACCESS PAD DETAIL



ELEVATION VIEW

NOTES:

- GUARD POSTS NOT SHOWN FOR CLARITY.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
PATH:	P:\HNS\71622\DR\ -DRAIN1	
PLOT:	P:\-LIB\ -PLOT\ PLOT.FPCP(1) OR PLOTH.PCP(2)	
BY:	DATE:	DESCRIPTION OF CHANGE:

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

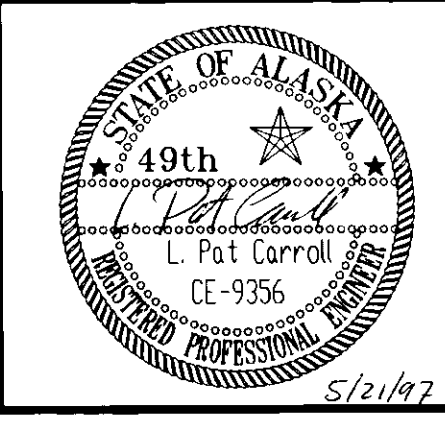
KLUKWAN

KLUKWAN ROAD REHABILITATION
STP-0003(38) ~ PROJECT NO. 71622

ALASKA

DESIGNED BY:
LPC
DRAWN BY:
RKS
CHECKED BY:
CNM

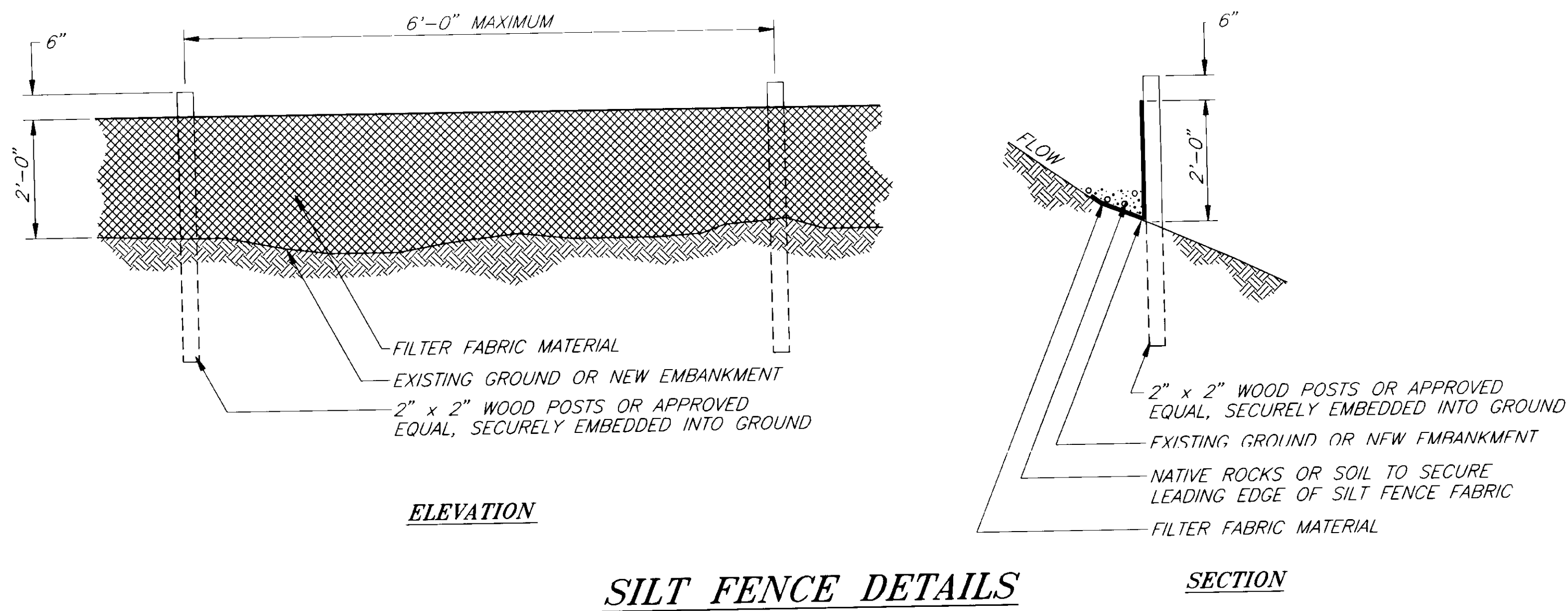
PROJECT NO.
71622
DATE:
APRIL, 1997
SHEET 18 OF 19



UTILITY & DRAINAGE DETAILS

EROSION AND SEDIMENT CONTROL NOTES

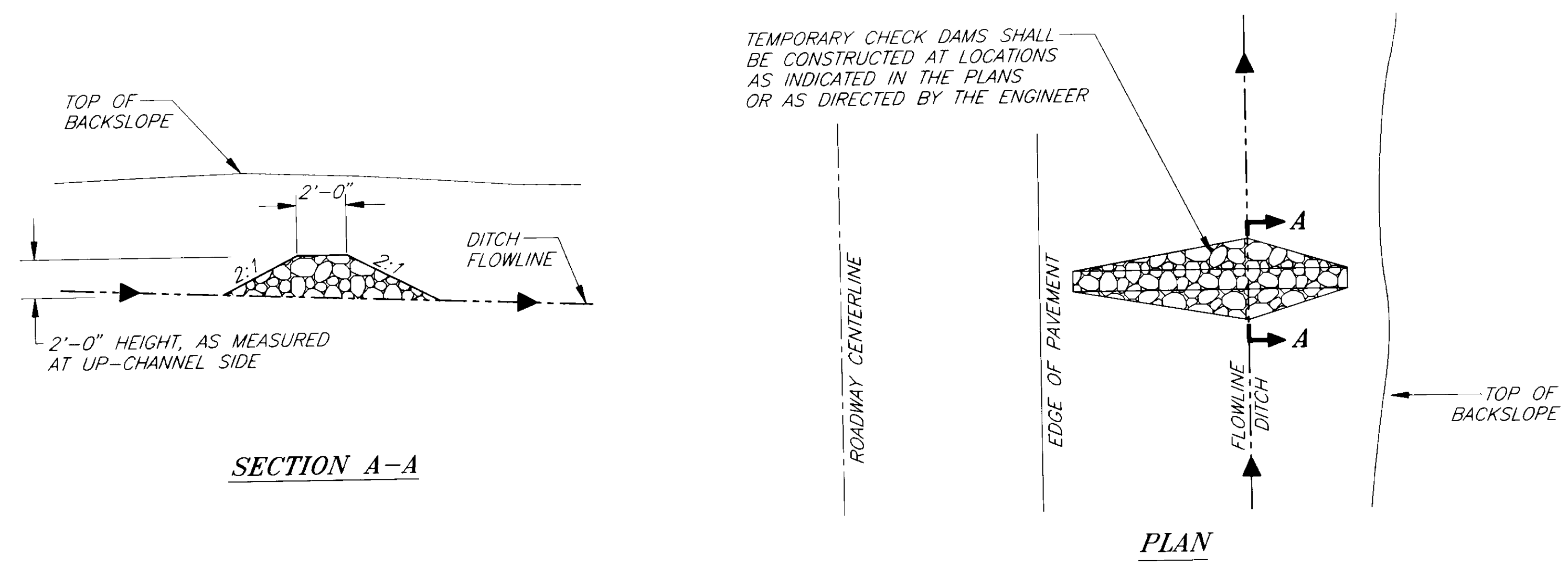
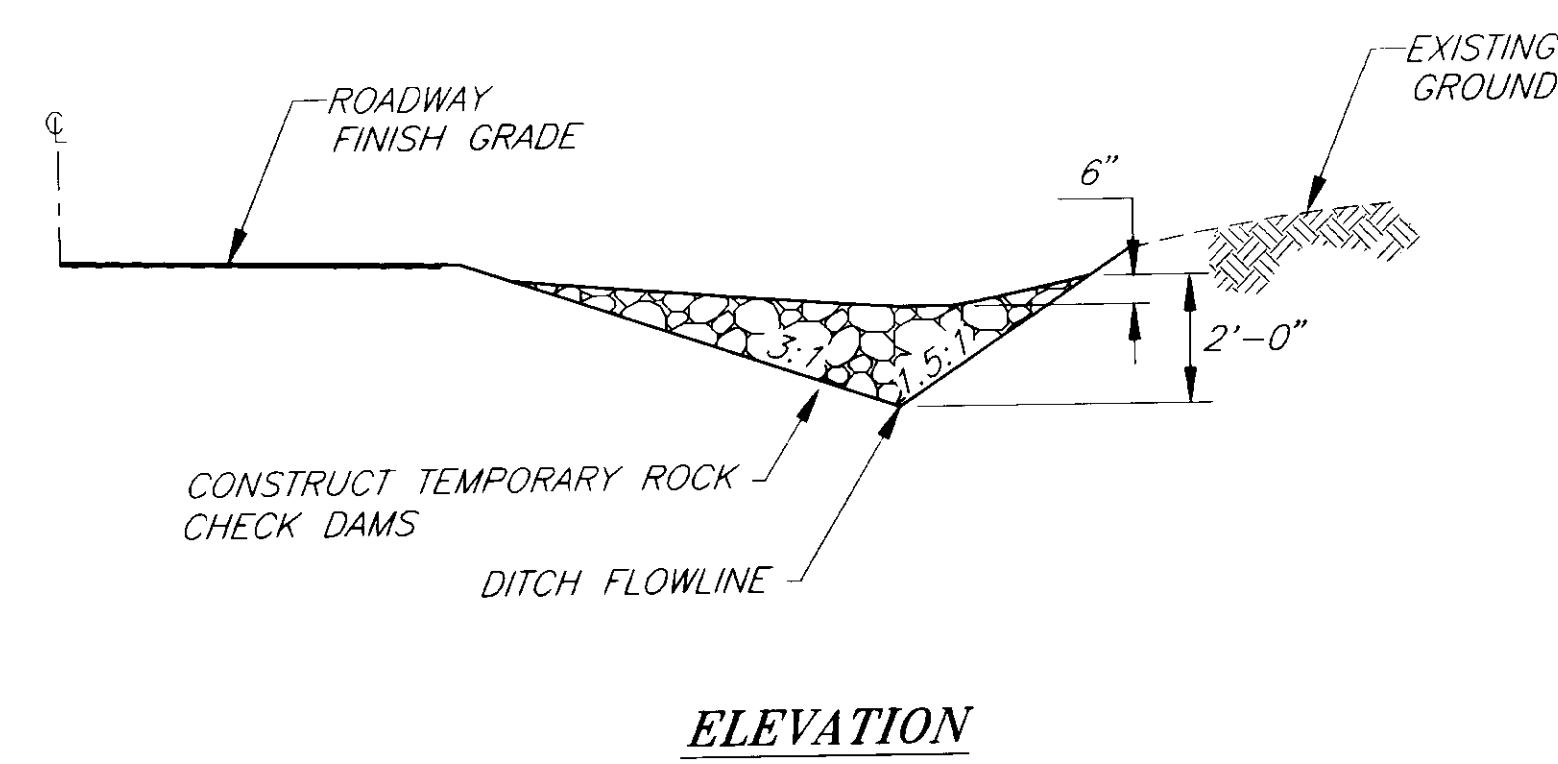
1. TEMPORARY CHECK DAM LOCATIONS SHALL BE AS SHOWN IN THE PLANS AS WELL AS AT ANY OTHER LOCATION DETERMINED BY THE ENGINEER TO REQUIRE SEDIMENT CONTROL THE APPROXIMATE NUMBER OF CHECK DAMS REQUIRED IS 12, HOWEVER, THE CONTRACTOR SHALL KEEP AN ADEQUATE SUPPLY OF MATERIAL ON HAND FOR UNFORESEEN SITUATIONS. IN ADDITION, THE CONTRACTOR SHALL KEEP THE FOLLOWING ON HAND AND AVAILABLE FOR USE IN EMERGENCY SITUATIONS:
 6 STRAW BALES
 SUFFICIENT POSTS AND FABRIC TO CONSTRUCT 200 LINEAR FEET OF SILT FENCE



ARCHEOLOGIST MONITORING AREA SUMMARY

LOCATIONS

- EXCAVATION FOR PIPES P-5 THROUGH P-10.
- ALL DITCH EXCAVATION LEADING TO AND AWAY FROM, AND BETWEEN THE ABOVE MENTIONED PIPES
- EXCAVATION REQUIRED FOR THE FIRE HYDRANT NEAR STA. "0" 40+30.



TEMPORARY CHECK DAMS SHALL BE CONSTRUCTED AT LOCATIONS AS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER

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

KLUKWAN

KLUKWAN ROAD REHABILITATION
 STP-0003(38) ~ PROJECT NO. 71622

ALASKA

EROSION & SEDIMENT CONTROL DETAILS

DESIGNED BY: LPC	PROJECT NO. 71622
DRAWN BY: RKS	DATE: APRIL, 1997
CHECKED BY: CNM	SHEET 19 OF 19

