

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

STORM SEWER AS-BUILTS
JUNEAU

**THANE ROAD
RECONSTRUCTION**

STP-F-M-0963(1)
PROJECT NO. 70134

INDEX OF SHEETS

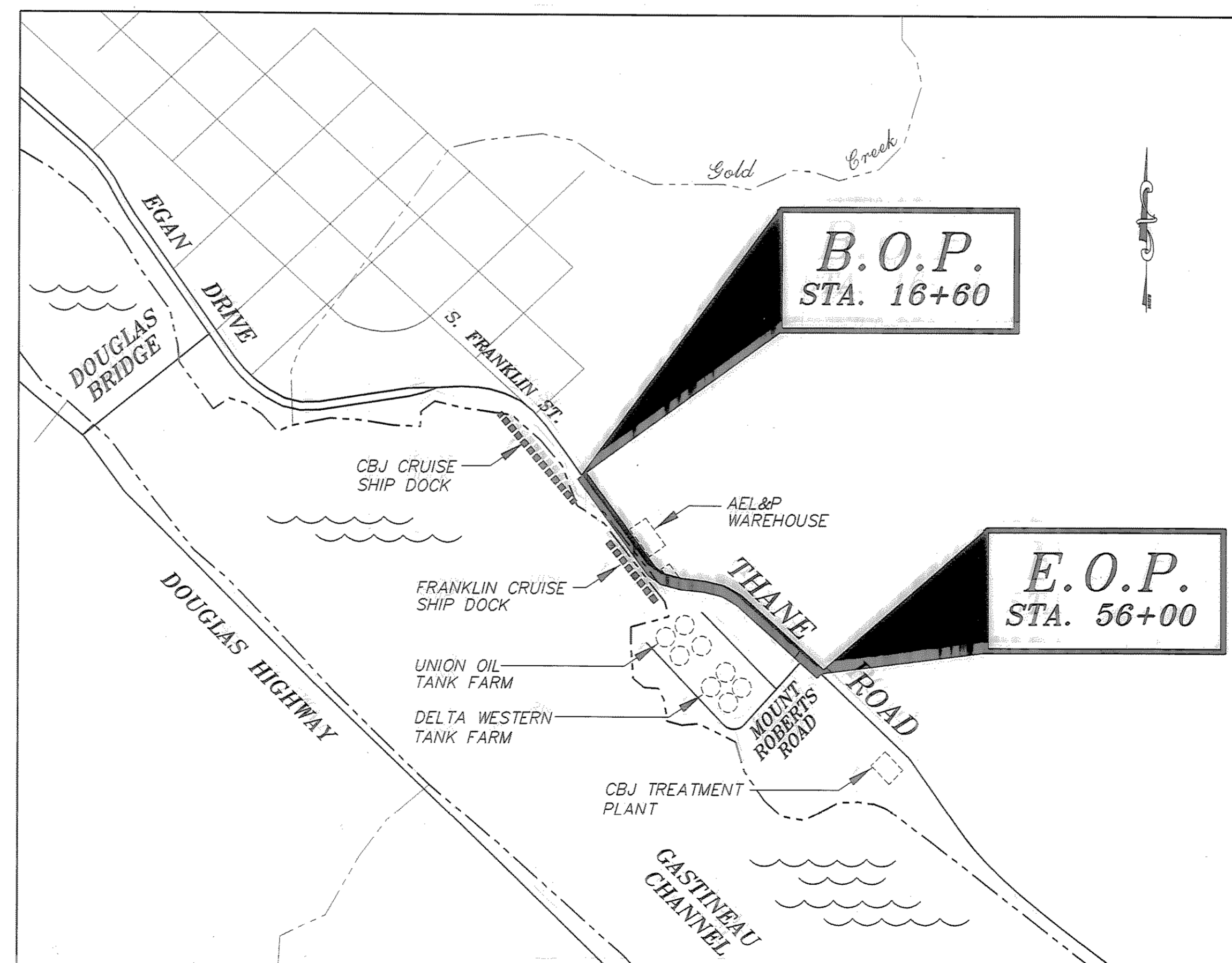
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DESIGN DESIGNATION

V (B.O.P. TO STA. 40+00)	30 MPH
V (STA. 40+00 TO E.O.P.)	45 MPH
ADT 1997	1,620
ADT 2017	2,650
DHV 12.5% (2017)	330
% T	12.7
E.A.L.	670,000

PROJECT SUMMARY

LENGTH OF PROJECT	3,940 LF (0.75 MI)
LENGTH OF GRADING	3,940 LF (0.75 MI)
LENGTH OF PAVING	3,940 LF (0.75 MI)
WIDTH OF PAVING	VARIES 25 TO 27.5 FT.



VICINITY MAP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1SE, C-01.03, C-02.01, D-04.10, D-20.02, D-23.00, D-24.00, G-04.05S, I-20.12, I-81.00, L-03.03, L-10.03, L-23.01, L-30.02, M-13.01, M-16.01, S-00.00, S-05.00, S-20.00, S-30.01, T-20.00, T-21.02, T-22.02, U-03.00

THE FOLLOWING CBJ STANDARD DRAWINGS SHALL APPLY:

403, 405, 407, 412, 414A, 414B

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION DESIGN SECTION

APPROVED Date 2/12/97
Regional Preconstruction Engineer

APPROVED Date 2/12/97
Director, S.E. Region Design & Construction

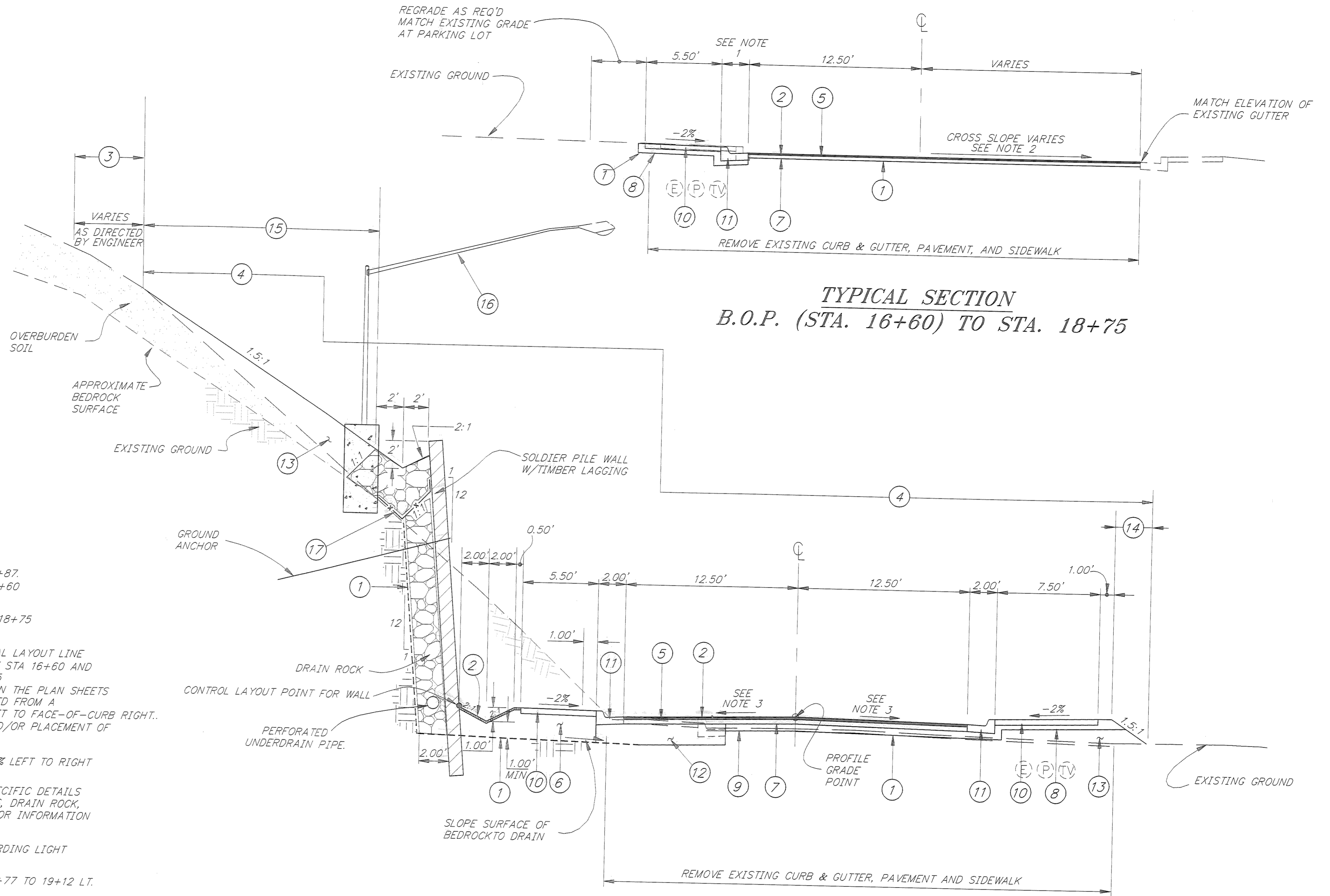
PROJECT NUMBER: 70134	ENGINEER'S SEAL
DATE: FEB., 1997	
SHEET 1 OF 59	

LEGEND

- ① PAY LIMITS FOR UNCLASSIFIED EXCAVATION
- ② 2" ASPHALT CONCRETE PAVEMENT
- ③ CLEARING
- ④ CLEARING AND GRUBBING
- ⑤ TACK COAT
- ⑥ SUBBASE, GRADING "E"
- ⑦ 4" ASPHALT TREATED BASE COURSE
- ⑧ 4" SUBBASE, GRADING "E"
- ⑨ 6" SUBBASE, GRADING "E"
- ⑩ 4" THICK CONCRETE SIDEWALK
- ⑪ CURB AND GUTTER, TYPE I
- ⑫ 18" SUBBASE, GRADING "E"
- ⑬ BORROW, TYPE "C", OR USEABLE EXCAVATION
- ⑭ SEEDING
- ⑮ SEEDING AND MATTING
- ⑯ LIGHT STANDARD - SEE LIGHTING PLANS & DETAILS
- ⑰ GEOTEXTILE, EROSION CONTROL

TYPICAL SECTION NOTES:

1. WIDTH OF GUTTER WILL VARY BETWEEN STA. 16+60 AND 17+87. CURB AND GUTTER WIDTH SHALL TRANSITION FROM STA. 16+60 (MATCH EXISTING) TO STA. 17+87 (2.00 FT.).
2. VERTICAL CONTROL FOR THE SECTION FROM STA 16+60 TO 18+75 SHALL BE ESTABLISHED AS FOLLOWS:
 - A. TOP BACK OF CURB (T.B.C.) WILL ESTABLISH A VERTICAL LAYOUT LINE
 - B. VERTICAL LAYOUT LINE WILL MATCH EXISTING T.B.C. AT STA 16+60 AND TRANSITION TO DESIGN T.B.C. ELEVATION AT STA 18+75
 - C. DO NOT USE THE CENTERLINE PROFILE GRADE SHOWN ON THE PLAN SHEETS FOR STAKING. CENTERLINE GRADE SHALL BE ESTABLISHED FROM A STRAIGHT-LINE CROSS SLOPE FROM FACE-OF-CURB LEFT TO FACE-OF-CURB RIGHT.
 - D. EXISTING SUBGRADE WILL REQUIRE MINOR GRADING AND/OR PLACEMENT OF ADDITIONAL CRUSHED AGGREGATE BASE COURSE.
3. CROSS SLOPES FROM STA. 18+75 TO 20+07 SHALL BE -2.5% LEFT TO RIGHT
4. SEE SOLDIER PILE WALL PLANS AND DETAILS FOR MORE SPECIFIC DETAILS REGARDING THE SOLDIER PILES, LAGGING, GROUND ANCHORS, DRAIN ROCK, INSULATION AND UNDERDRAIN. SEE THE DRAINAGE PLANS FOR INFORMATION REGARDING DRAINAGE FEATURES BEHIND THE WALL.
5. SEE LIGHTING PLANS AND DETAILS FOR INFORMATION REGARDING LIGHT STANDARDS, BASES, J-BOXES AND CONDUIT LOCATIONS.
6. RIPRAP TYPE IA SLOPE PROTECTION OCCURS FROM STA. 18+77 TO 19+12 LT. SEE THE PLAN AND PROFILE SHEETS.
7. ROCK AND SOIL EXCAVATION BEHIND THE SOLDIER PILE RETAINING WALLS WILL BE MEASURED FOR PAYMENT TO THE NEATLINE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS.
8. PAVED DITCH OCCURS FROM STA. 18+67 TO 20+80 AND 21+25 TO 23+50 LT.



**TYPICAL SECTION
STA. 18+75 TO STA. 23+50**

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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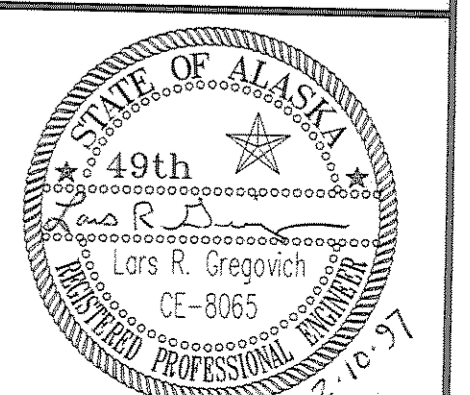
JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA
DESIGNED BY: L. GREGOVICH
DRAWN BY: K. SNYDER
CHECKED BY: A. STEININGER

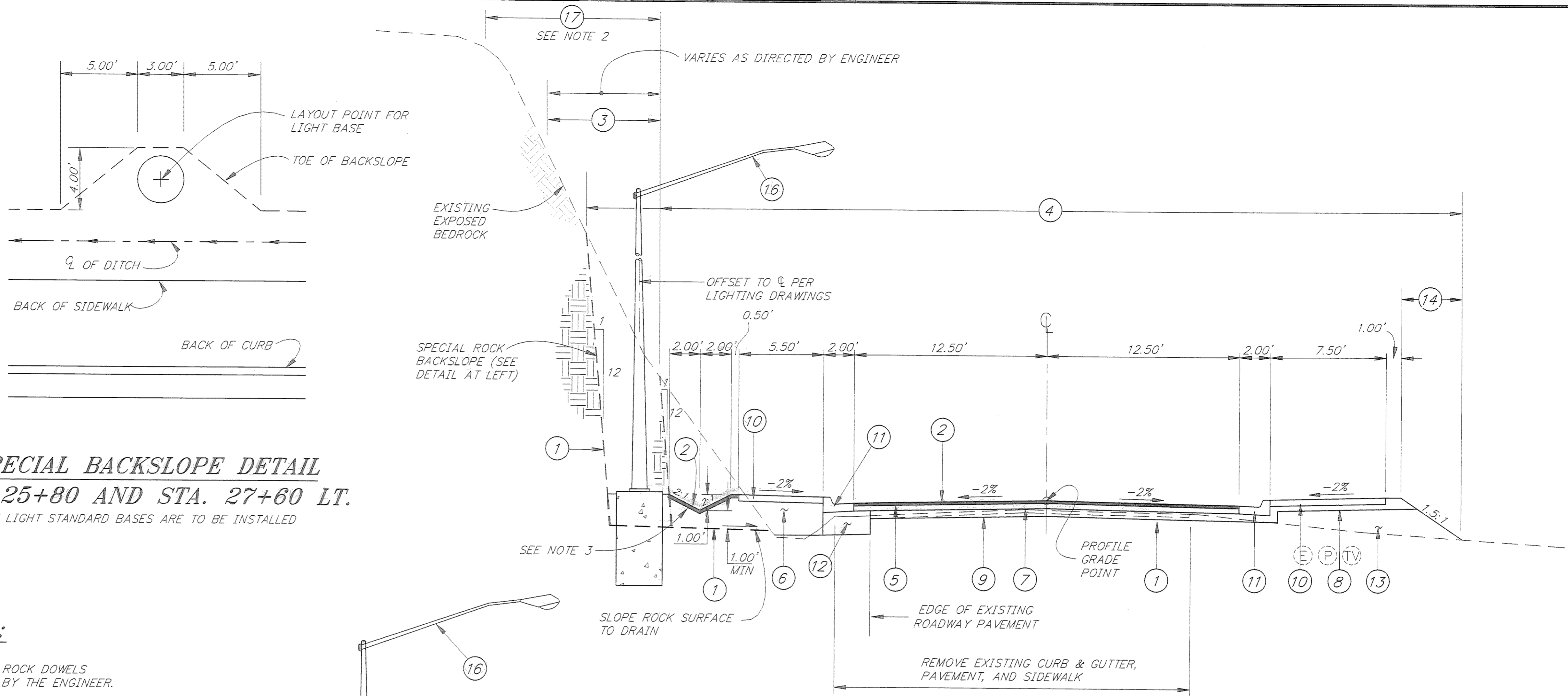
PROJECT NO.
70134
DATE:
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TYPICAL SECTIONS

LEGEND

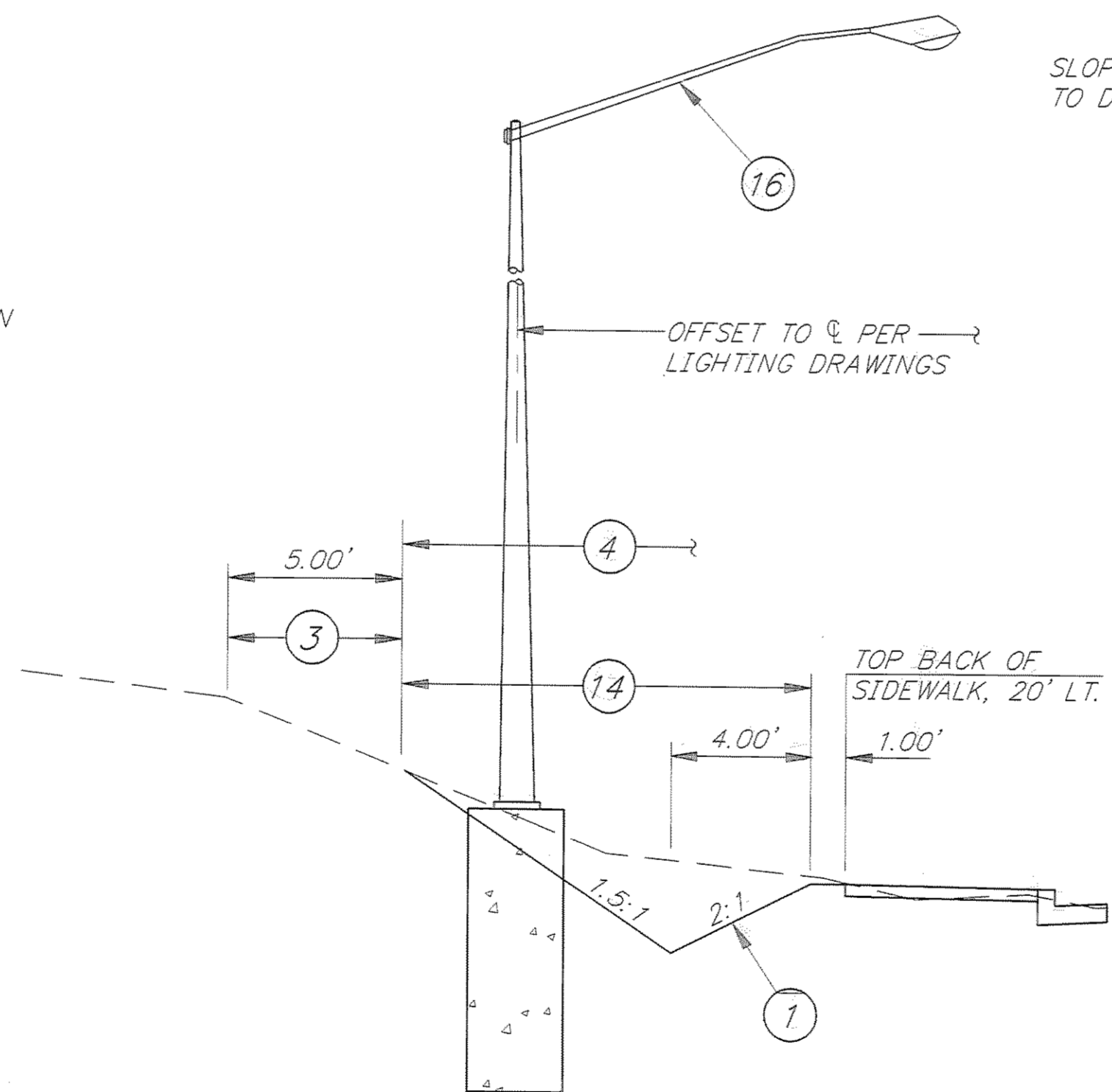
- ① PAY LIMITS FOR UNCLASSIFIED EXCAVATION
- ② 2" ASPHALT CONCRETE PAVEMENT
- ③ CLEARING
- ④ CLEARING AND GRUBBING LIMITS
- ⑤ TACK COAT
- ⑥ SUBBASE, GRADING "E"
- ⑦ 4" ASPHALT TREATED BASE COURSE
- ⑧ 4" SUBBASE, GRADING "E"
- ⑨ 6" SUBBASE, GRADING "E"
- ⑩ 4" THICK CONCRETE SIDEWALK
- ⑪ CURB AND GUTTER, TYPE I
- ⑫ 18" SUBBASE, GRADING "E"
- ⑬ BORROW, TYPE "C", OR USEABLE EXCAVATION
- ⑭ SEEDING
- ⑮ SEEDING AND MATTING
- ⑯ LIGHT STANDARD
- ⑰ ROCK SCALING



SPECIAL BACKSLOPE DETAIL
STA. 25+80 AND STA. 27+60 LT.
 WHERE LIGHT STANDARD BASES ARE TO BE INSTALLED

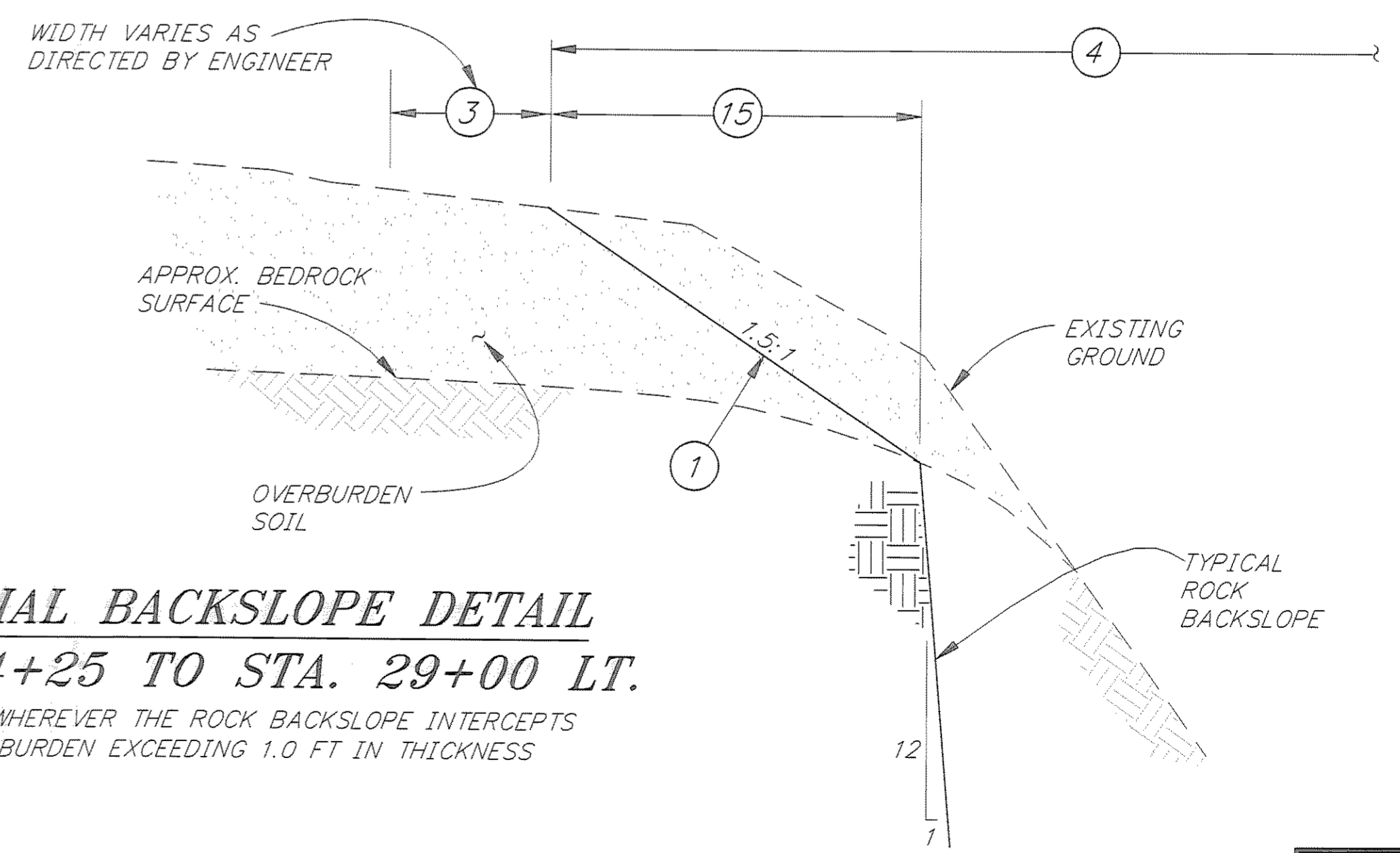
TYPICAL SECTION NOTES:

1. THE USE OF ROCK BOLTS, HORIZONTAL DRAIN HOLES AND ROCK DOWELS IN AND ABOVE ROCK CUT SLOPES SHALL BE AS DIRECTED BY THE ENGINEER.
2. ROCK SCALING OUTSIDE THE DESIGN SLOPE LIMITS SHALL BE AS DIRECTED BY THE ENGINEER AND PAID FOR AS NOTED IN SECTION 203. ROCK SCALING WITHIN THE SLOPE LIMITS SHALL BE INCIDENTAL TO UNCLASSIFIED EXCAVATION.
3. PAVED DITCH OCCURS FROM 23+50 TO 29+10 LT.



TYPICAL DITCH
STA. 29+75 TO STA. 31+80 LT.

TYPICAL SECTION
STA. 23+50 TO STA. 35+75



SPECIAL BACKSLOPE DETAIL
STA. 24+25 TO STA. 29+00 LT.
 TO BE USED WHEREVER THE ROCK BACKSLOPE INTERCEPTS
 SOIL OVERBURDEN EXCEEDING 1.0 FT IN THICKNESS

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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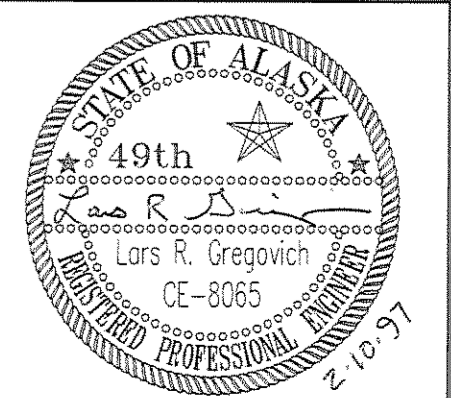
JUNEAU

THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ 70134

ALASKA

DESIGNED BY:
 L. GREGOVICH
 DRAWN BY:
 K. SNYDER
 CHECKED BY:
 A. STEININGER

PROJECT NO.
 70134
 DATE:
 FEB. 1997
 SHEET 3 OF 59



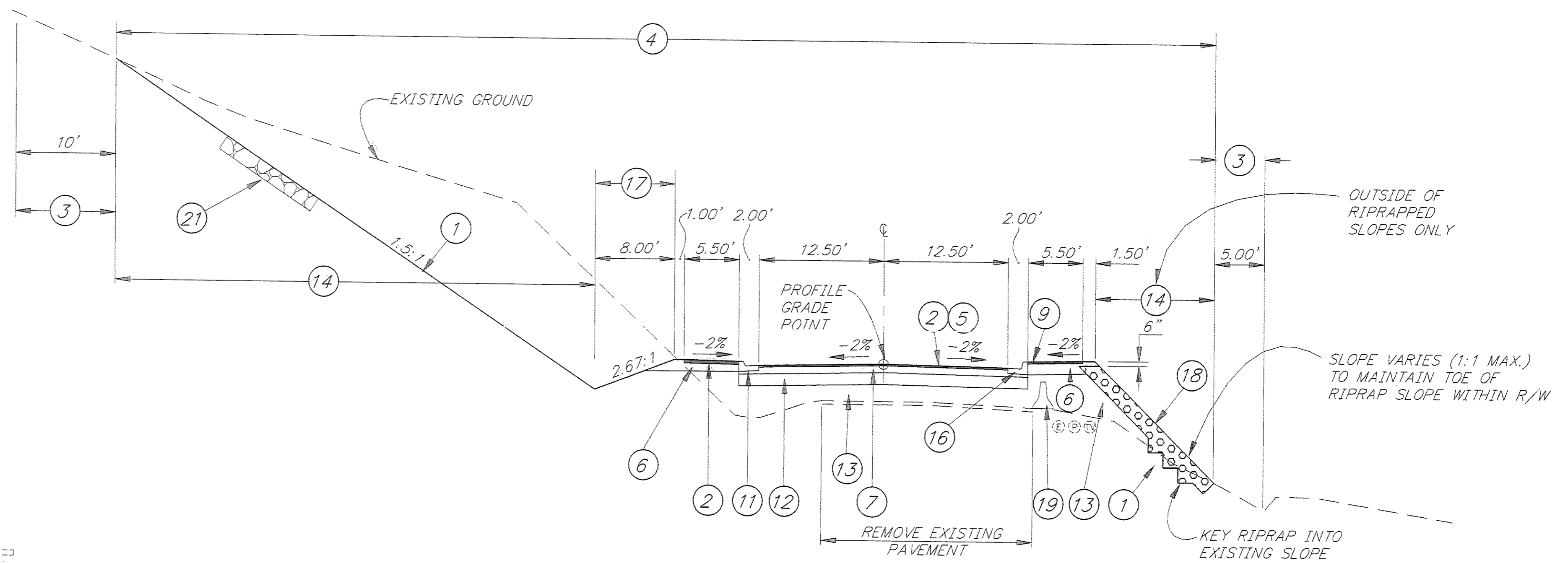
TYPICAL SECTIONS

LEGEND

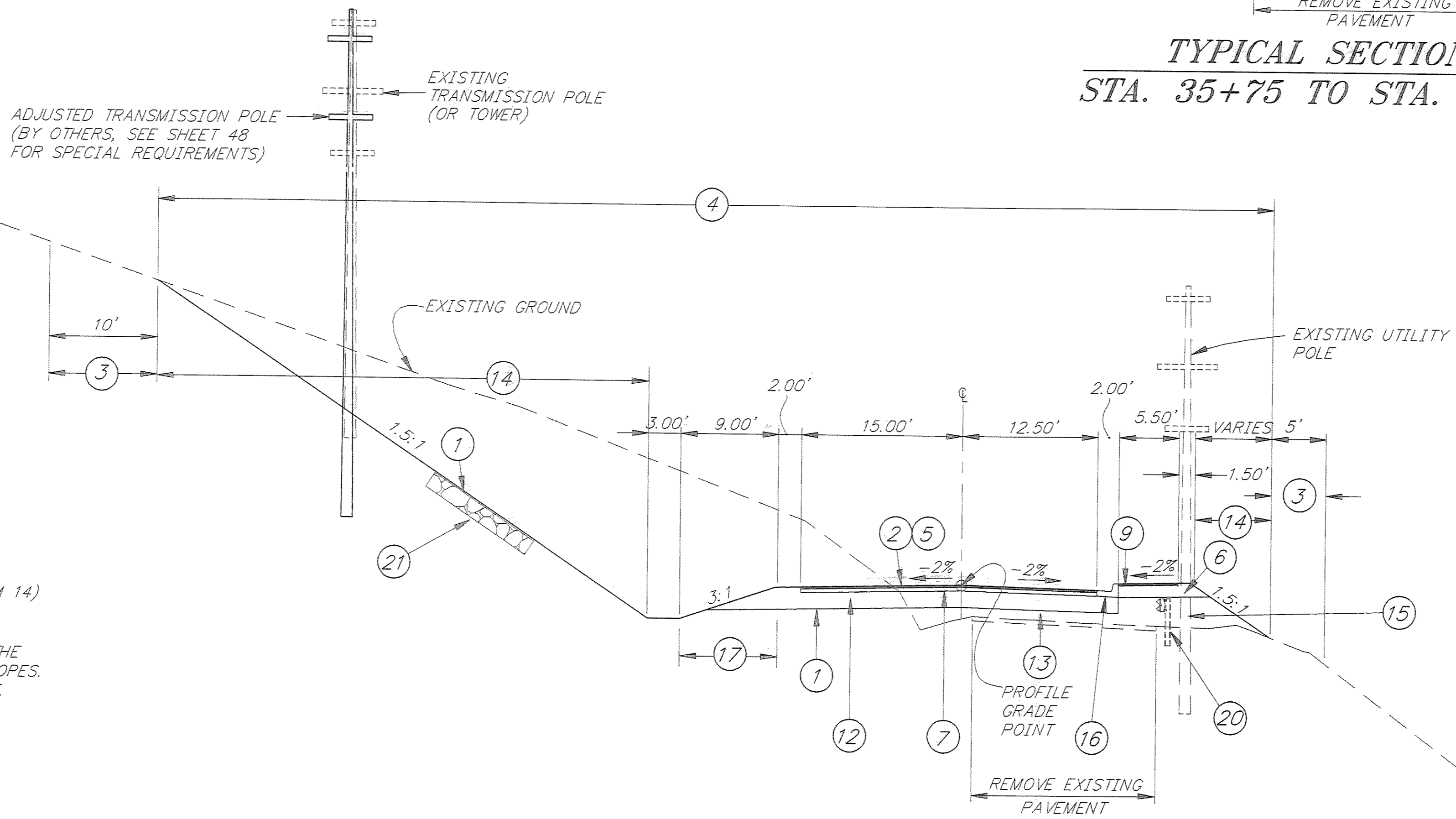
- ① PAY LIMITS FOR UNCLASSIFIED EXCAVATION
- ② 2" ASPHALT CONCRETE PAVEMENT
- ③ CLEARING
- ④ CLEARING AND GRUBBING LIMITS
- ⑤ TACK COAT
- ⑥ 13" SUBBASE GRADING "E"
- ⑦ 4" ASPHALT TREATED BASE COURSE
- ⑧ ~~4" CRUSHED AGGREGATE BASE COURSE~~
- ⑨ 2" ASPHALT CONCRETE PAVEMENT SIDEWALK
- ⑩ 4" THICK CONCRETE SIDEWALK
- ⑪ CURB AND GUTTER, TYPE I
- ⑫ 18" SUBBASE, GRADING "E"
- ⑬ BORROW TYPE "C", OR USEABLE EXCAVATION
- ⑭ SEEDING AND MATTING
- ⑮ POLE WRAP
- ⑯ CURB & GUTTER, TYPE I SPECIAL 9" HIGH CURB
- ⑰ SEEDING
- ⑱ 18" RIPRAP, CLASS IA
- ⑲ REMOVE EXISTING CONCRETE BARRIER
- ⑳ REMOVE AND SALVAGE EXISTING GUARDRAIL
- ㉑ CLASS IA RIPRAP, STABILIZATION ROCK

TYPICAL SECTION NOTES

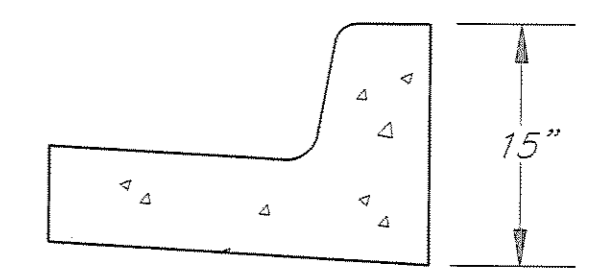
1. CURB & GUTTER, TYPE I - SPECIAL 9" HIGH CURB WILL BE MEASURED AND PAID FOR UNDER ITEM 609(2) - CURB & GUTTER, TYPE I.
2. SEEDING (LEGEND ITEM 17) AND SEEDING AND MATTING (LEGEND ITEM 14) WILL NOT BE REQUIRED ON RIPRAP LINED DITCHES AND SLOPES.
3. CLASS IA RIPRAP STABILIZATION ROCK SHALL BE AS DIRECTED BY THE ENGINEER TO STABILIZE WET, WEEPING OR OTHERWISE UNSTABLE SLOPES. ROCK SHALL BE PRESSED INTO SLOPE USING AN EXCAVATOR BUCKET.



**TYPICAL SECTION
STA. 35+75 TO STA. 40+25**



**TYPICAL SECTION
STA. 40+25 TO STA. 53+50**
SEE SHEET 5 FOR SPECIAL BACKSLOPE
CONDITIONS FROM STA. 41+75 TO 43+50 LT



NOTE: ALL OTHER DIMENSIONS PER STD. DWG. I-20.12
SPECIAL 9" HIGH CURB & GUTTER
STA. 38+50 TO 52+52 RT

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STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

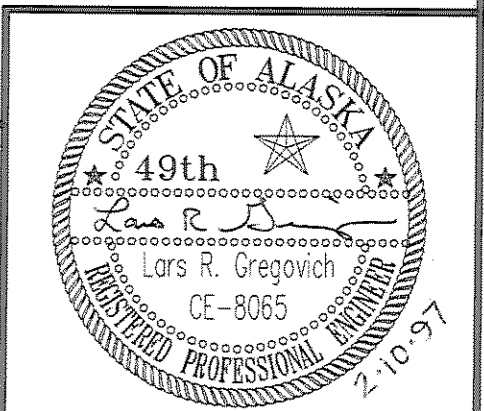
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ALASKA

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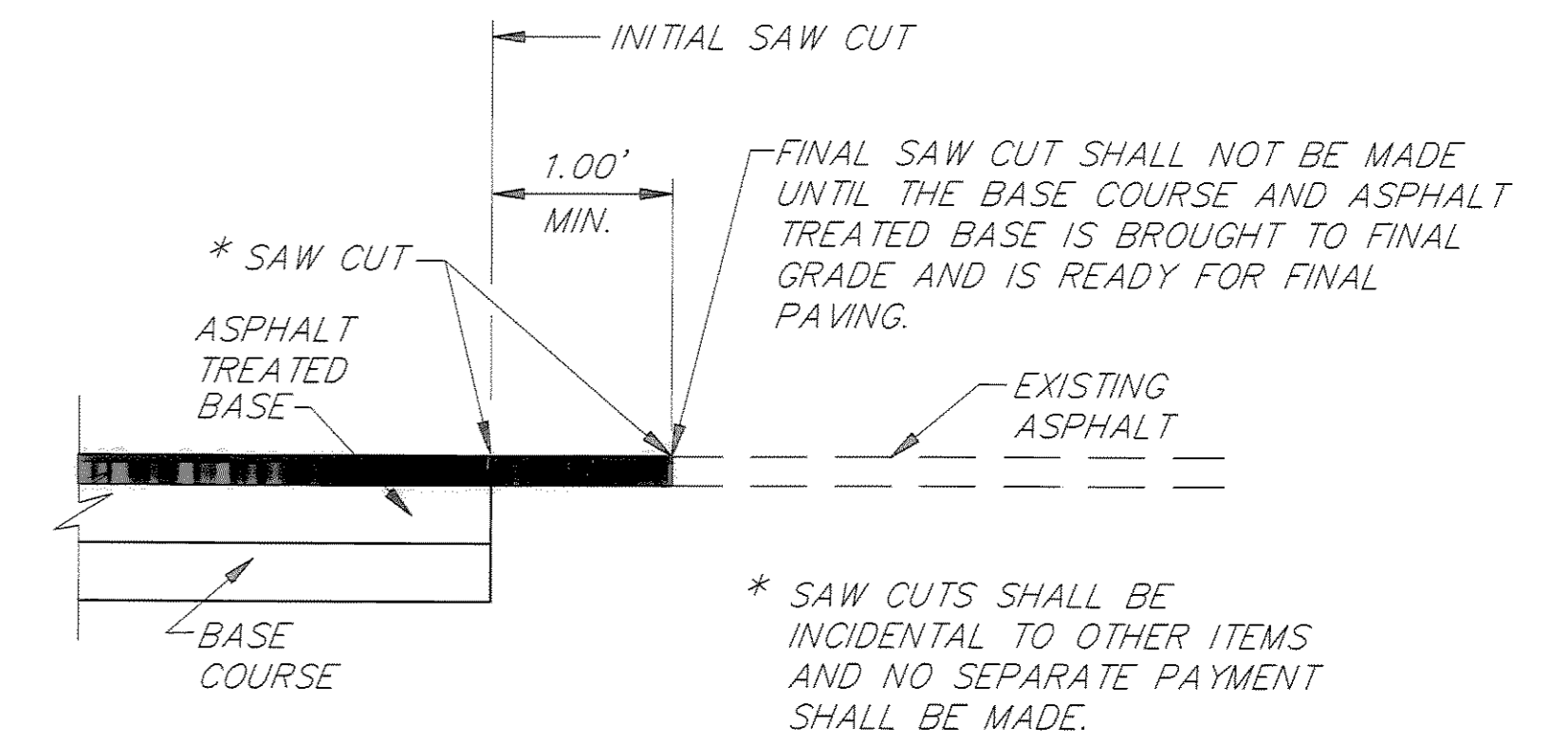
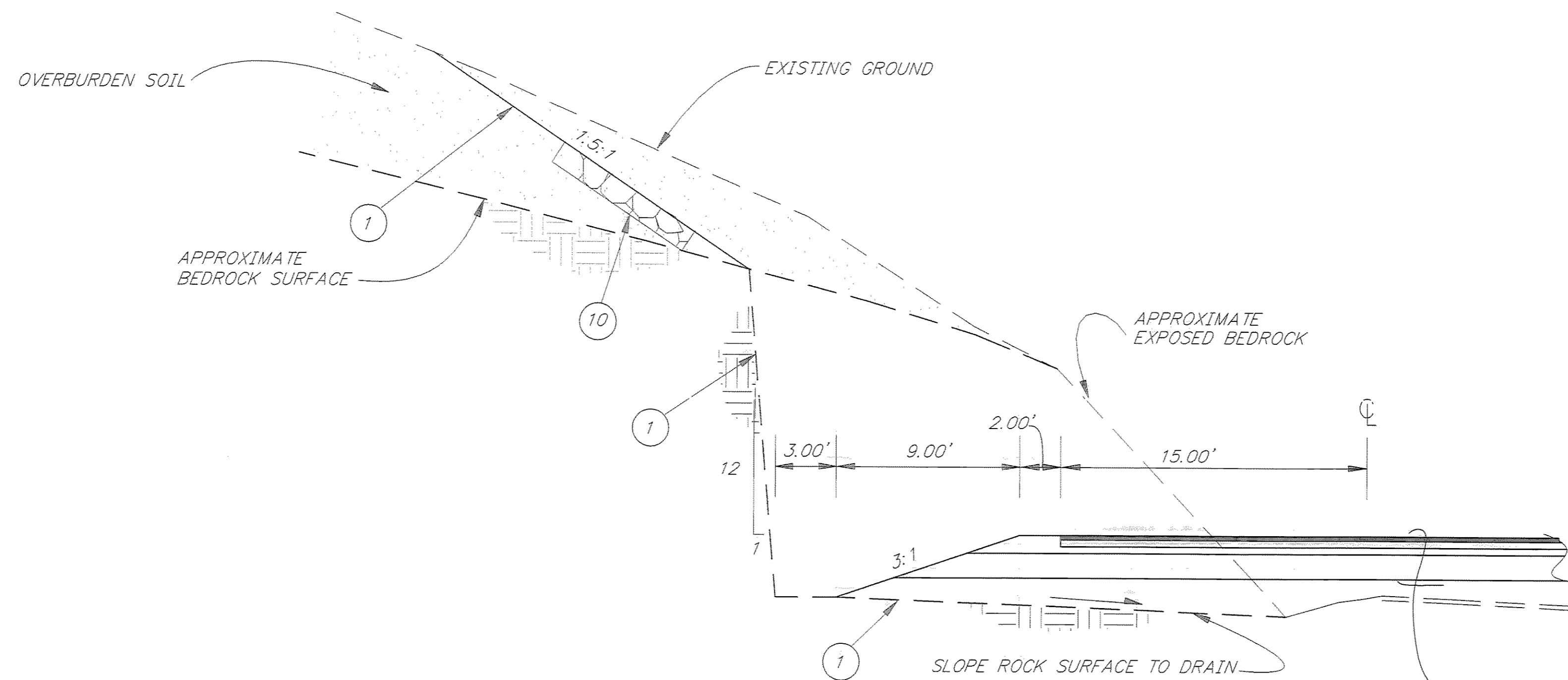
DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 4 OF 59



TYPICAL SECTIONS

LEGEND

- ① PAY LIMITS FOR UNCLASSIFIED EXCAVATION
- ② 2" ASPHALT CONCRETE PAVEMENT
- ③ CLEARING LIMITS
- ④ CLEARING AND GRUBBING LIMITS
- ⑤ TACK COAT
- ⑥ 2" ASPHALT TREATED BASE COURSE
- ⑦ 4" SUBBASE, GRADING "E"
- ⑧ SEEDING AND MATTING
- ⑨ SEEDING
- ⑩ CLASS IA RIPRAP, STABILIZATION ROCK
- ⑪ 18" SUBBASE, GRADING E



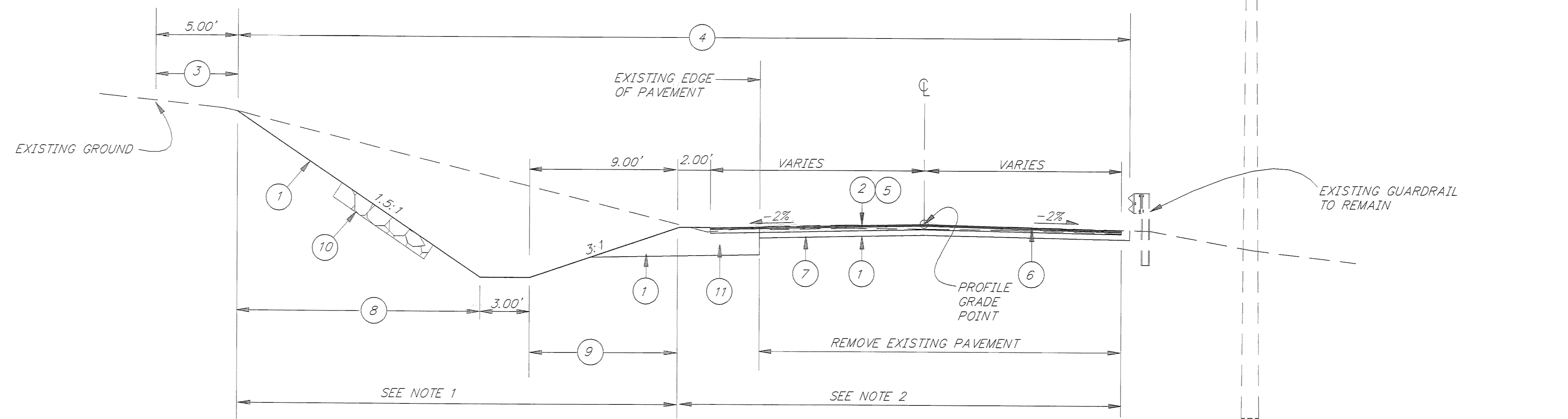
PAVEMENT JOINT DETAIL
TO BE USED WHEREVER MATCHING EXISTING PAVEMENT

SPECIAL BACKSLOPE CONDITION
APPROX. STA. 41+75 TO STA. 43+50 LT.

SEE SHEET 4 FOR MATERIALS TO BE USED IN THIS SECTION.

TYPICAL NOTES:

1. DITCH SHALL TRANSITION LINEARLY FROM STA. 54+00 TO 56+00 - MATCH EXISTING DITCH SECTION AT STA. 56+00.
2. LANE WIDTHS, PAVEMENT EDGES AND SHOULDER SHALL TRANSITION LINEARLY FROM 54+00 TO 56+00.
3. CLASS IA RIPRAP STABILIZATION ROCK SHALL BE AS DIRECTED BY THE ENGINEER TO STABILIZE WET, WEEPING OR OTHERWISE UNSTABLE SLOPES. ROCK SHALL BE PRESSED INTO THE SLOPE USING AN EXCAVATOR BUCKET.
4. SEEDING (LEGEND ITEM 9) AND SEEDING AND MATTING (LEGEND ITEM 8) WILL NOT BE REQUIRED ON RIPRAP LINED DITCHES AND SLOPES.



TYPICAL SECTION
STA. 53+50 TO STA. 56+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: P:\-LIB\-PLOT\PLOT.F.PCP(4) OR PLOT.F.PCP(8)		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

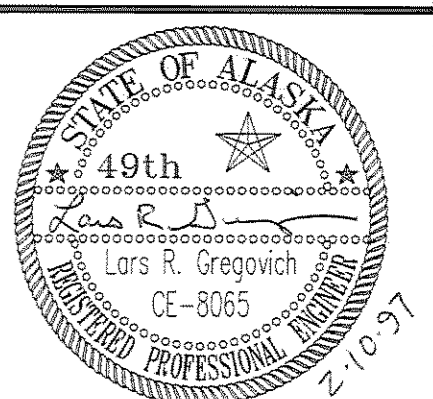
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134

ALASKA

DESIGNED BY:
L. GREGOVICH
DRAWN BY:
W. HICKOK
CHECKED BY:
A. STEININGER

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 5 OF 59

TYPICAL SECTIONS



ESTIMATE OF QUANTITIES

ESTIMATE OF QUANTITIES, CONT.

BASIS OF ESTIMATE

ITEM NO.	ITEM	UNIT	QUANTITY
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D.
201(1A)	CLEARING	ACRE	1.0 4.05
201(3A)	CLEARING & GRUBBING	ACRE	4.5 4.478
202(1)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LUMP SUM	ALL REQ'D.
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	35,000 36,631
203(6)	BORROW	TON	6,000 6
203(11)	CONTROLLED BLASTING	SQUARE YARD	500 505.6
203(12)	ROCK BOLTS	EACH	79 11
203(13)	DRAIN HOLES	EACH	39 28
203(14)	ROCK DOWELS	EACH	22 10
203(15)	CONTAMINATED SOIL EXCAVATION	TON	100 63.4
203(16)	BROAD CRESTED WEIRS	EACH	72 14
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	1,000 3,621.4
304(1)	SUBBASE, GRADING E	TON	15,000 16,044
306(1)	ASPHALT TREATED BASE COURSE	TON	2,800 2,889.7
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B	TON	7750 1986.3
401(2)	PBA-2 ASPHALT CEMENT	TON	250 241.45
402(2)	STE-1 ASPHALT FOR TACK COAT	TON	9 5.47
509(1)	GROUND ANCHORS	EACH	42 0
510(1)	FOOTING	EACH	56 0
510(2)	CONTROL BLOCK	EACH	42
510(3)	STRUCTURAL STEEL PILES	LINEAR FOOT	1,445 0
510(4)	TIMBER LAGGING	SQUARE FOOT	5,700 0
512(1)	ROCKERY WALL	SQUARE YARD	150 86.6
603(1-12)	12 INCH CORRUGATED STEEL PIPE	LINEAR FOOT	20 166
603(9-48)	48 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	250
603 (10-28X20)	28 X 20 INCH CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	80 76
603(17-12)	12 INCH PIPE	LINEAR FOOT	400 52
603(17-18)	18 INCH PIPE	LINEAR FOOT	800 900.2
603(17-24)	24 INCH PIPE	LINEAR FOOT	1600 1,285
603(17-36)	36 INCH PIPE	LINEAR FOOT	500 458
603(17-48)	48 INCH PIPE	LINEAR FOOT	500 441
603(20-24)	END SECTION FOR 24" PIPE	EACH	4
603(22)	6 INCH PVC PIPE	LINEAR FOOT	400 326
603(23)	15 INCH PVC PIPE	LINEAR FOOT	80 53
603(24)	4 INCH DUCTILE IRON, CLASS 50	LINEAR FOOT	40 10
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	1 6
604(4)	ADJUST EXISTING MANHOLE	EACH	14 4
604(5A)	INLET, TYPE A	EACH	22 23
604(5B)	INLET, TYPE B - 48" DIAMETER	EACH	13 15
604(5C)	INLET, TYPE B - 60" DIAMETER	EACH	8 10
604(5D)	INLET, FIELD	EACH	6 7
604(5E)	INLET, TYPE PLASTIC	EACH	1 0
604(5F)	INLET, SLOTTED DRAIN	EACH	2 1
605(3-12)	12-INCH PERFORATED PIPE UNDERDRAIN	LINEAR FOOT	260 349.5
606(1)	W-BEAM GUARDRAIL	LINEAR FOOT	162.5 175

ITEM NO.	ITEM	UNIT	QUANTITY
608(1A)	CONCRETE SIDEWALK - 4" THICK	SQUARE YARD	2,200 210.3
608(1B)	REINFORCED CONCRETE SIDEWALK - 6" THICK	SQUARE YARD	200 344.6
608(3)	ASPHALT SIDEWALK	SQUARE YARD	1,300 1,255.7
608(6)	COLORLED CONCRETE SIDEWALK	SQUARE YARD	80 0
609(2)	CURB & GUTTER, TYPE I	LINEAR FOOT	6,100 6,023
609(7)	CONCRETE BUMPER CURBS	LINEAR FOOT	200 180
611(1)	RIPRAP, CLASS IA	CUBIC YARD	3,300 3,274
614(1)	SURVEY MONUMENTS	EACH	12
614(2)	MONUMENT CASES	EACH	12
615(1)	STANDARD SIGNS	SQUARE FOOT	730 134.1
618(1)	SEEDING	ACRE	4.5 4.26
619(2)	MATTING	SQUARE YARD	17,000 14,021
627(4)	FIRE HYDRANT ADJUSTMENT	EACH	2
627(5)	FIRE HYDRANT INSTALLATION	EACH	4
627(10)	ADJUSTMENT OF VALVE BOX	EACH	25
627(11)	FIRE HYDRANT ACCESS PAD	EACH	6 7
627(12)	WATER CONDUIT ADJUSTMENT	EACH	2 0
635(1)	INSULATION BOARD	MBM	5.5 5.95
636(1)	GABIONS	CUBIC FOOT	9,500 9,326
639(3)	APPROACHES	EACH	14
640(1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQ'D.
641(1)	EROSION & POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D.
641(3)	EROSION & POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D.
641(4)	ROCK CHECK DAMS	EACH	15 30
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D.
642(2)	THREE PERSON SURVEY PARTY	HOUR	30 9.88
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D.
643(3)	PERMANENT CONSTRUCTION SIGNING	LUMP SUM	ALL REQ'D.
643(4)	CONSTRUCTION SIGN	EACH PER DAY	2,000 1,310
643(5)	TYPE II BARRICADE	EACH PER DAY	1,000 579
643(6)	TYPE III BARRICADE	EACH PER DAY	20
643(7)	TRAFFIC CONE	EACH PER DAY	70,000 8,775
643(8)	DRUM	EACH PER DAY	1,000 634
643(13)	TEMPORARY PAVEMENT MARKINGS	STATION	80 150.5
643(15)	FLAGGING	MAN HOUR	4,500 3,303
643(17)	STREET SWEEPING	HOUR	50 35.25
643(18)	WATERING	M-GALLON	300 152
644(1)	FIELD OFFICE	LUMP SUM	ALL REQ'D.
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQ'D.
661(1)	LOAD CENTER, TYPE 1	EACH	1
670(8)	RECESSED PAVEMENT MARKERS	EACH	65 34
670(9)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQ'D.
681(1)	POLE WRAPS	EACH	7

ITEM NO.	ITEM	QUANTITY
203(3)	UNCLASSIFIED EXCAVATION	APPROX. 4,500 C.Y. ROCK EXC.
203(6)	BORROW	1.8 TONS/C.Y.
301(1)	CRUSHED AGGREGATE BASE COURSE	1.95 TONS/C.Y.
304(1)	SUBBASE	1.90 TONS/C.Y.
306(1)&401(1)	ASPHALT	115 LBS/S.Y./INCH OF DEPTH
401(2)	ASPHALT CEMENT	4% OF 306 + 6% OF 401
402(2)	TACK COAT	0.08 GAL/S.Y.-241 GAL/TON

GENERAL NOTES

1. THE SUPERELEVATION SHALL BE ROTATED ABOUT THE "0" CENTERLINE, UNLESS OTHERWISE NOTED ON THE PLANS.
2. UNDERDRAINS BEHIND ALL RETAINING WALLS ARE INCIDENTAL TO THE RETAINING WALLS. UNDERDRAINS OUTSIDE RETAINING WALL LIMITS SHALL BE MEASURED AND PAID FOR UNDER SECTION 605.

ITEM NO.	ITEM	UNIT	QUANTITY
203(17)	Scaling C.O.3	L.S.	All req'd
203(18)	Wire Mesh for Rock Protection C.O.6	L.S.	All req'd
510(10)	Concrete Retaining Walls C.O.1	L.S.	All req'd
627(12)	AEL & P Water & Sewer C.O.3	L.S.	All req'd
660(11)	Thaw Wire Installation Complete C.O.2	L.S.	All req'd
660(12)	Thaw Wire Hookup Complete C.O.4	L.S.	All req'd
690(1)	Taku Smokery Building C.O.5	L.S.	All req'd
690(2)	Taku Smokery Roof C.O.5	L.S.	All req'd

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

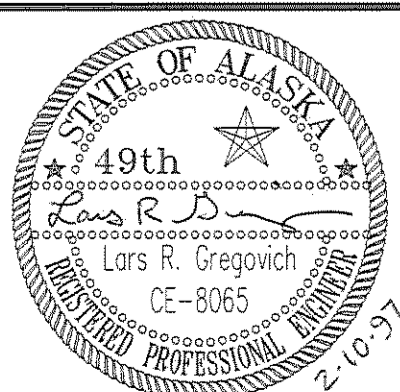
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134

ALASKA

DESIGNED BY:	L. GREGOVICH	PROJECT NO.	70134
DRAWN BY:	K. SNYDER	DATE:	FEB. 1997
CHECKED BY:	A. STEININGER	SHEET	6 OF 59



ESTIMATE OF QUANTITIES

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY

MISCELLANEOUS

STATION	OFFSET		DESCRIPTION OF ITEM TO BE REMOVED
	LEFT	RIGHT	
16+55 TO 17+55	X		REMOVE PLANTERS AND REINSTALL AS NECESSARY FOR SIDEWALK WORK (2)
18+50	X		DUMPSTER PAD
18+70	X		RELOCATE 1.5" CONDUIT AND FIBER OPTIC COM. CABLE PER DTL. ON SHT. 10
18+80 TO 20+30		X	REMOVE TREES AND SHRUBS AND TRANSPLANT OUTSIDE SLOPE LIMITS
19+86	X		STORM DRAIN MANHOLE, ABANDON IN PLACE. REMOVE CONE & BACKFILL TO GRADE
20+15		X	REMOVE LUMINAIRE
21+00		X	REMOVE PLANTERS AND REINSTALL AS NECESSARY FOR SIDEWALK WORK (2)
22+00 TO 23+85		X	REMOVE OR JACK HAMMER BURIED CONCRETE BLOCKS 2'WIDE X 4'HIGH X 4'LONG AS NECESSARY TO INSTALL PVC RAIN GUTTER LEADERS AND DRAIN PIPE.
22+36		X	STORM DRAIN MANHOLE, ABANDON IN PLACE. REMOVE CONE AND BARREL(S). LEAVE BASE. BACKFILL AS DIRECTED.
22+85 TO 24+25	X		CONCRETE FOUNDATION RUINS
25+08		X	STORM DRAIN MANHOLE, ABANDON IN PLACE. REMOVE CONE & BACKFILL TO GRADE
25+25 TO 28+50		X	REMOVE APPROX 420 LF OF TEMPORARY FENCING. DELIVER TO GASINEAU CONTRACTORS AT 2201 INDUSTRIAL BLVD.
33+50	X		14' X 20' CONCRETE PAD
36+00		X	REMOVE & REINSTALL CONCRETE BARRIER, BULLRAIL AND RAILING AT NEW DOCK AREA.
36+00		X	RELOCATE EXISTING LANDSCAPING (PLANTS & MATERIALS) AS DIRECTED
39+25 TO 40+00	X		LOG AND CONCRETE RETAINING WALLS
10+80 "J"	X		REMOVE AND REPLACE GATE STRUCTURE
48+50	X		CONCRETE HEADWALL FOR 48" Ø PIPE
48+55		X	REMOVE PORTION OF CONCRETE SPILLWAY AS NECESSARY TO CONSTRUCT ROCKERY WALL
53+40		X	REMOVE & RECONSTRUCT GUARDRAIL FOR CULVERT INSTALLATION
53+70 TO 54+30	X		CONCRETE FOUNDATION RUINS (SEE PLANS)

SIDEWALK REMOVAL

FROM STATION	TO STATION	OFFSET		COMMENTS	AREA
		LEFT	RIGHT		
16+60	18+87	X		CONCRETE	151 S.Y.
18+87	25+15	X		CONCRETE	279 S.Y.
25+15	28+50	X		ASPHALT	149 S.Y.
52+35	52+80		X	CONCRETE	25 S.Y.
53+30	53+60		X	CONCRETE	17 S.Y.
				TOTAL	621 S.Y.

GUARDRAIL REMOVAL

FROM STATION	TO STATION	OFFSET	COMMENTS	LENGTH
43+50	52+50	RT	DELIVER MATERIALS TO DOT/PF MAINTENANCE YARD AT 6860 GLACIER HIGHWAY	900 L.F.

CONCRETE BARRIER REMOVAL

FROM STATION	TO STATION	OFFSET		REMARKS	LENGTH
		LEFT	RIGHT		
21+50	23+80		X	REMOVE AND DELIVER TO GASINEAU CONTRACTORS YARD AT 2201 INDUSTRIAL BLVD.	230'
36+50	43+50		X		700'
				TOTAL	930'

CULVERT REMOVAL (5)

STATION	OFFSET		COMMENTS	LENGTH
	LEFT	RIGHT		
18+68	X		12"Ø INTO STORM DRAIN FIELD INLET	15'
18+68	X		12"Ø FIELD INLET TO CURB INLET	10'
22+52	X		DITCH TO CURB INLET 12"Ø	10'
28+55			8"Ø PVC REMOVE TO BACK OF CURB	30'
29+65			12" CAP REMOVE TO BACK OF CURB	25'
*35+45		X	OUTSIDE OF ROADWAY, BURY IN PLACE	10'
40+45			REMOVE ONLY TO BACK OF CURB	25'
44+00			REMOVE ONLY TO BACK OF SIDEWALK	20'
45+95			24"Ø REMOVE TO R/W LIMITS	45'
46+54			24"Ø REMOVE TO R/W LIMITS	50'
48+52			48"Ø	45'
49+45			18"Ø REMOVE TO R/W LIMITS	40'
49+95			24"Ø REMOVE ONLY TO SLOPE LIMITS	40'
52+50			REMOVE TO (S-14)	30'
53+30			REMOVE TO EXISTING INLET	55'
			TOTAL	405'

* REMOVE FIRST 10'± OF PIPE AND THEN PLUG OR CAP END OF PIPE REMAINDER OF PIPE TO BE ABANDONED IN PLACE.

INLET REMOVAL (5)

STATION	OFFSET		COMMENTS	QUANTITY
	LEFT	RIGHT		
18+69	8'		CURB INLET	1
18+69	19'		FIELD INLET	1
18+85		17'	CURB INLET	1
19+66	14'		CURB INLET	1
19+90	15'		CURB INLET	1
20+10	14'		CURB INLET	1
21+30	1'		CURB INLET	1
22+50	1'		CURB INLET	1
23+70	1'		CURB INLET	1
24+95	2'		CURB INLET	1
25+60	9'		FIELD INLET	1
27+30	7'		CURB INLET	1
29+65	12'		FIELD INLET	1
32+73		10'	FIELD INLET	1
			TOTAL	14

FIRE HYDRANT REMOVAL

STATION	OFFSET		COMMENTS	QUANTITY
	LEFT	RIGHT		
20+40	X		FIRE HYDRANTS ARE TO BE DELIVERED TO THE CITY & BOROUGH OF JUNEAU WATER DEPARTMENT.	1
25+40	X			1
30+35	X			1
35+10		X		1
			TOTAL	4

CURB AND GUTTER REMOVAL

FROM STATION	TO STATION	OFFSET		LENGTH
		LEFT	RIGHT	
16+60	25+20	X		860'
18+80	20+30		X	150'
20+85	21+00		X	15'
21+30	21+50		X	20'
52+35	52+80		X	45'
53+30	53+60		X	30'
				TOTAL 1,120'

ASPHALT REMOVAL

FROM STATION	TO STATION	OFFSET		REMARKS
		LEFT	RIGHT	
16+60	56+00	X	X	REMOVE HAUL AND STOCKPILE AT DOT/PF ASPHALT STORAGE YARD AT 9 MILE EGAN DRIVE AND LOOP ROAD INTERSECTION
34+00		X		AEL&P BUILDING SEE PLAN SHEET FOR WIDTH
35+70			X	ACCESS TO AML/DOCK
				TOTAL 12,000 S.Y.

NOTE: REMOVAL OF ASPHALT SIDEWALK IN SIDEWALK REMOVAL TABLE.

NOTES:

- SIGN REMOVAL IS ADDRESSED IN THE SIGN SUMMARY TABLES AND INCIDENTAL TO SECTION 615(1).
- ALL REMOVALS BECOME THE PROPERTY OF THE CONTRACTOR EXCEPT THE CONCRETE BARRIERS, ASPHALT, FIRE HYDRANTS AND MISCELLANEOUS ITEMS ADDRESSED IN THE TABLES ON THIS PAGE.
- ALL REMOVAL WORK WILL BE PAID AS LUMP SUM IN ACCORDANCE WITH THESE TABLES AND THE SPECIFICATIONS
- ALL STATIONING REFERENCES TO "0" LINE UNLESS NOTED OTHERWISE.
- ALL CULVERTS NOT FULLY REMOVED SHALL HAVE THEIR END(S) CAPPED OR PLUGGED TO THE ENGINEER'S SATISFACTION.

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RECORD OF REVISIONS

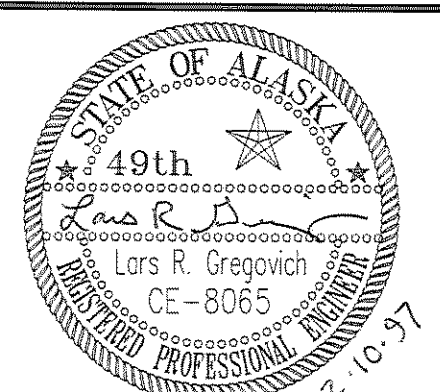
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134
SUMMARY OF QUANTITIES

NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

DESIGNED BY: LARS R. GREGOVICH	PROJECT NO. 70134
DRAWN BY: BILL ADAMS	DATE: FEB. 1997
CHECKED BY: A. J. STEININGER	SHEET 7 OF 59



512(1) ROCKERY WALL SUMMARY				
FROM STATION	TO STATION	AVE. HT.	COMMENTS	AREA (S.Y.)
"K"10+85 LT.	"K"11+50	8'	KEENE ACCESS	60
48+44	48+85 RT	10'	HEADWALL AT P-12A OUTFALL	45
48+92	49+05 RT	7'	BEHIND P.H. ACCESS PAD	15
52+30	52+40 LT	4'	BEHIND LIMINAIRE	7
53+80	53+90 LT	4'	BEHIND LIMINAIRE	7
TOTAL				134

604(3) RECONSTRUCT EXISTING MANHOLE SUMMARY				
STATION	OFFSET	ADJUSTMENT	COMMENTS	QTY. (EA.)
35+53	49' RT.	+4.2'	LEFT OF "A" LINE APPROACH	1
TOTAL				1

604(4) ADJUST EXISTING MANHOLE SUMMARY				
STATION	OFFSET	COMMENTS	QTY. (EA.)	
17+20	9' LT.	ELEC.	1	
17+51	18' LT.	TV	1	
17+53	8' RT.	SS	1	
17+59	23' RT.	SD	1	
17+59	10' LT.	PLUG SOUTHEASTERN INLET	1	
18+92	19' RT.	SD	1	
21+83	12' RT.	ROTATE CONE TO FIT C&G	1	SS
25+36	12' RT.	ROTATE CONE TO FIT C&G	1	SS
28+51	11' RT.		1	SS
29+37	9' RT.		1	SS
32+72	0		1	SS
TOTAL				11

639(3) APPROACH SUMMARY				
STATION	OFFSET	WIDTH	REMARKS	QTY. (EA.)
18+05	LT.	34'	ALASKA LITHO	1
18+60	RT.	35'	MT. ROBERTS TRAM	1
20+58	RT.	35'	MT. ROBERTS TRAM	1
20+97	LT.	48'	KEENE	1
21+18	RT.	22'	GEORGIO'S	1
24+76	RT.	31'	TAKU SMOKERIES	1
28+55	RT.	20'	FRANKLIN DOCK ENTERPRISES	1
29+35	LT.	31'	"CBJ" LIFT STATION	1
30+05	RT.	20'	FRANKLIN DOCK ENTERPRISES	1
32+25	RT.	80'	TO PRINCESS DOCK	1
32+80	LT.	28'	PARKING	1
35+69	RT.	28'	FROM PRINCESS DOCK AND AML	1
40+25	LT.	30'	AJT MINING PROPERTIES, INC.	1
53+10	RT.	38'	MT. ROBERTS STREET	1
TOTAL				14

627(10) ADJUST VALVE BOX SUMMARY			
STATION	OFFSET	REMARKS	QTY. (EA.)
17+05	8' LT.		1
19+06	1' LT.		1
19+08	4' LT.		1
19+14	2' LT.		1
20+60	20' RT.	IN APPROACH	1
21+98	5' RT.		1
23+10	5' LT.		1
24+33	1' RT.		1
25+38	2' RT.		1
29+00	5' LT.		1
29+01	7' LT.		1
29+15	11' LT.		1
29+16	5' LT.		1
29+17	4' LT.		1
29+17	7' LT.		1
29+19	5' LT.		1
29+51	7' LT.		1
30+43	9' LT.		1
35+08	21' RT.		1
36+35	19' RT.		1
43+83	8' RT.		1
43+87	4' RT.		1
44+25	31' RT.	F.H. VALVE	1
48+99	26' RT.		1
52+35	15' RT.		1
TOTAL			25

614(1) SURVEY MONUMENT AND 614(2) MONUMENT CASE SUMMARY				
STATION	OFFSET	REMARKS	MON. (EA.)	CASE (EA.)
17+09.59	"0"	ON ϕ P.I.	1	1
18+38.33	"0"	ON ϕ P.I.	1	1
20+14.96	"0"	ON ϕ P.C.	1	1
21+13.21	"0"	ON ϕ P.T.	1	1
24+39.76	"0"	ON ϕ P.I.	1	1
27+74.90	"0"	ON ϕ P.C.	1	1
28+92.92	"0"	ON ϕ P.T.	1	1
34+41.65	"0"	ON ϕ P.C.	1	1
37+78.80	"0"	ON ϕ P.T.	1	1
40+04.62	"0"	ON ϕ P.C.	1	1
42+07.96	"0"	ON ϕ P.T.	1	1
54+66.22	"0"	ON ϕ P.C.	1	1
TOTAL			12	12

EXISTING MONUMENT SUMMARY			
STATION	OFFSET	TYPE\REMARKS	
18+10	15' RT.	TONER & NORDLING	1989
20+15	12' LT.	B.C. STEM, RMC 66, A.T.S. 3	
24+14	18' RT.	REBAR W/T&N PLASTIC CAP	
25+07	15' LT.	BLM MS982B,G, C5-AMD 57A, C19,	1961
25+07	26' LT.	BLM MS982B,G, C6-AMD 57A, C18,	1961
28+46	12' RT.	T&N ROW, LOT 2, LOT 18, B 83, PLS, 6252	1989
28+46	16' RT.	T&N, LOT 2, LOT 1, LOT 18, WC	1989
28+47	17' LT.	T&N, FR"G", LOT 2, ROW, PLS, 6262	1988
36+30	5' LI.	I&N, LUI 1, ROW, PLS, 6262	1988
36+33	12' RT.		
36+40	6' LT.		
36+47	54' RT.	1 1/2" CONC. FILLED IRON PIPE, ATS 3, C41	
36+56	36' RT.	REBAR W/ PLASTIC CAP	
36+56	32' RT.	REBAR W/ PLASTIC CAP	
36+77	34' RT.	REBAR W/ PLASTIC CAP	
36+77	28' RT.	REBAR W/ PLASTIC CAP	
47+49.20	35.12' RT.	R&M, ROW, LOT1, A-J SUBD. 1410S	1990
48+13	5' RT.	B.P.R. IRON PIPE (POT 19+35)	
65+54.00	42.62' LT.	RP. P.C. 36+82.6, 2B	1932

- NOTES ON EXISTING MONUMENTS**
- THIS LIST CONTAINS ALL SURVEY MONUMENTS RECOVERED DURING DOT/PF SURVEYS.
 - THE CONTRACTOR MAY REMOVE THESE MONUMENTS DURING CONSTRUCTION BUT SHALL SAVE ALL ORIGINAL BRASS AND ALUMINUM CAPS AND GIVE THEM TO THE PROJECT ENGINEER.
 - THE CONTRACTOR SHALL PROTECT AND PRESERVE ANY SURVEY MONUMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE NOT ON THE ABOVE SUMMARY.

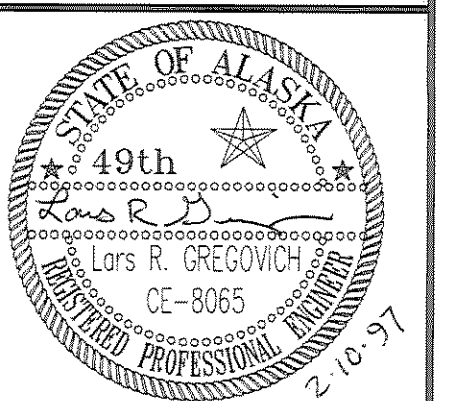
681(1) POLE WRAP SUMMARY			
STATION	OFFSET	REMARKS	QTY. (EA.)
41+55	26' RT.		1
43+37	26' RT.		1
44+89	25' RT.		1
46+59	25' RT.		1
48+33	24' RT.		1
50+35	24' RT.		1
54+35	21' RT.		1
TOTAL			7

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STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
ALASKA
STP-F-M-0963(1) ~ PROJECT NO. 70134
SUMMARY OF QUANTITIES

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. KLEMMETSON	DATE: FEB. 1997
CHECKED BY: A. STEINGER	SHEET 8 OF 59



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

606(1) GUARDRAIL INSTALLATION SUMMARY

FROM STATION	TO STATION	OFFSET	COMMENTS	LENGTH (FT.)
"K" 10+50	"K" 11+37.5	RT.		87.5
"J" 10+40	"J" 11+15	LT.		75.0
TOTAL				162.5

627(5) FIRE HYDRANT INSTALLATION SUMMARY

STATION	OFFSET		COMMENTS	QUANTITY (EA.)
	LEFT	RIGHT		
20+40	X			1
25+40	X			1
30+35	X			1
35+10		X		1
TOTAL				4 EA.

627(4) FIRE HYDRANT ADJUSTMENT SUMMARY

STATION	OFFSET		ADJUSTMENT	QUANTITY (EA.)
	LEFT	RIGHT		
44+25		X	+4.0' RAISE	1
49+00		X	+4.0' RAISE	1
TOTAL				2 EA.

627(11) FIRE HYDRANT ACCESS PAD SUMMARY

STATION	OFFSET		MATERIAL	CULVERT	QUANTITY (EA.)
	LEFT	RIGHT			
20+40	X		CONCRETE-4"	8" PVC X 12'	1
25+40	X		CONCRETE-4"	8" PVC C 12'	1
30+35	X		CONCRETE-4"	NONE	1
35+10		X	CONCRETE-4"	NONE	1
44+25		X	ASPHALT-2"	NONE	1
49+00		X	ASPHALT-2"	NONE	1
TOTAL					6 EA.

609(2) CURB & GUTTER, TYPE I SUMMARY

FROM STATION	TO STATION	OFFSET	REMARKS	LENGTH (FT.)
16+60	40+00	12.5' LT.		2,326'
32+60	34+93	20.0' LT.	PARKING LOT BUFFER	232'
18+75	20+25	12.5' RT.	MEASURED RADIUS LENGTHS INCLUDED	157'
20+72	21+05	12.5' RT.	MEASURED RADIUS LENGTHS INCLUDED	48'
21+25	28+40	12.5' RT.		740'
28+75	32+05	12.5' RT.	MEASURED RADIUS LENGTHS INCLUDED	336'
32+70	35+60	12.5' RT.	ENDS AT "B" 10+85, 15' RT.	397'
35+80	52+80	12.5' RT.	STARTS AT "B" 10+60, 15' LT.	1,741'
32+75	33+20	22' RT	AT PRINCESS LOT, CONNECTS TO EXISTING ASPHALT CURB	45'
TOTAL				6,068'

608(6) COLORED CONCRETE SUMMARY

STATION	OFFSET	AREA	COMMENTS
18+85.9	16.9 RT	7.8 S.Y.	
20+18.0	16.2 RT	8.6 S.Y.	
20+91.0	15.1 RT	16.6 S.Y.	
21+34.8	16.8 RT	5.5 S.Y.	
21+60.3	14.5 LT	3.1 S.Y.	
21+60.3	14.8 RT	4.2 S.Y.	
31+55.1	14.5 LT	3.1 S.Y.	
31+55.1	14.5 RT	4.2 S.Y.	
31+99.1	25.1 RT	3.4 S.Y.	
32+74.7	23.4 RT	6.1 S.Y.	
35+48.0	23.4 RT	4.1 S.Y.	
39+93.5	14.5 RT	3.1 S.Y.	
52+78.8	32.4 RT	6.1 S.Y.	
53+39.9	32.1 RT	2.1 S.Y.	
TOTAL		78.0 S.Y.	

608(1A) 4" THICK SIDEWALK SUMMARY

FROM STATION	TO STATION	OFFSET		REMARKS	AREA (S.Y.)
		LT.	RT.		
16+60.0	17+90.2	X		5.5'	79.6
18+24.1	20+73.45	X		5.5'	152.4
18+91.1	20+09.3		X	7.5'	98.5
20+76.3	20+77.8		X	7.5' SIDEWALKx10.7' LENGTH	8.9
21+20.1	21+57.8	X		5.5'	23.0
21+40.7	21+57.9		X	7.5'	14.3
21+62.8	29+18.7	X		5.5'	461.9
21+62.8	24+63.3		X	7.5'	250.4
24+97.4	28+46.7		X	7.5'	291.1
28+85.8	29+95.2		X	7.5'	11.3
29+67.6	31+52.6	X		5.5'	113.1
30+15.1	31+51.4		X	7.5'	113.0
31+57.6	32+65.6	X		5.5'	66.0
31+56.5	31+97.1		X	7.5'	33.8
32+01.0	32+05.1		X	7.5'	3.4
32+79.7	35+46.0		X	7.5'	221.9
32+94.5	35+43.0	X		5.5'	151.9
35+63.5	36+08.8	X		5.5'	27.7
35+91.1	36+08.8		X	5.5'	10.8
39+82.0	40+05.0		X	SIDEWALK WHEELCHAIR RAMP	14.1
52+72.0	52+85.7	X		RADIUS 5.5' TO 4.5'	7.6
53+33.5	53+47.0	X		RADIUS 4.5'	6.8
TOTAL					2,162.1

608(1B) 6" THICK REINFORCED SIDEWALK SUMMARY

STATION	OFFSET		WIDTH	REMARKS	AREA (S.Y.)
	LT.	RT.			
18+07.13	X		34	5.5' SIDEWALK	20.8
20+96.6	X		48	5.5' SIDEWALK	29.3
24+80.3		X	34	7.5' SIDEWALK	28.3
28+56.2		X	19.5	7.5' SIDEWALK	16.3
29+43.1	X		49	5.5' SIDEWALK	29.9
30+05.1		X	20	7.5' SIDEWALK	16.7
32+10.0	X		90	5.5' SIDEWALK WAREHOUSE ACCESS	55.0
TOTAL					196.3

608(3) ASPHALT SIDEWALK SUMMARY

FROM STATION	TO STATION	OFFSET		REMARKS	AREA (S.Y.)
		LT.	RT.		
36+08.8	39+84		X		229.2
40+05.0	52+72.0		X		775.5
36+08.8	40+00	X			238.9
53+47.0	53+73.5		X		15.5
TOTAL					1,259.1

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PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

THANE ROAD RECONSTRUCTION

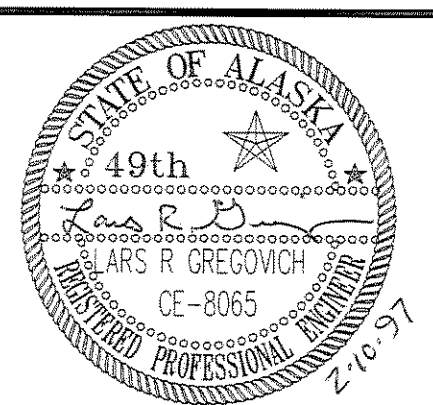
ALASKA

STP-F-M-0963(1) ~ PROJECT NO. 70134
SUMMARY OF QUANTITIES

DESIGNED BY:
L. GREGOVICH
DRAWN BY:
K. KLEMMETSON
CHECKED BY:
A. STEINGER

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 9 OF 59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

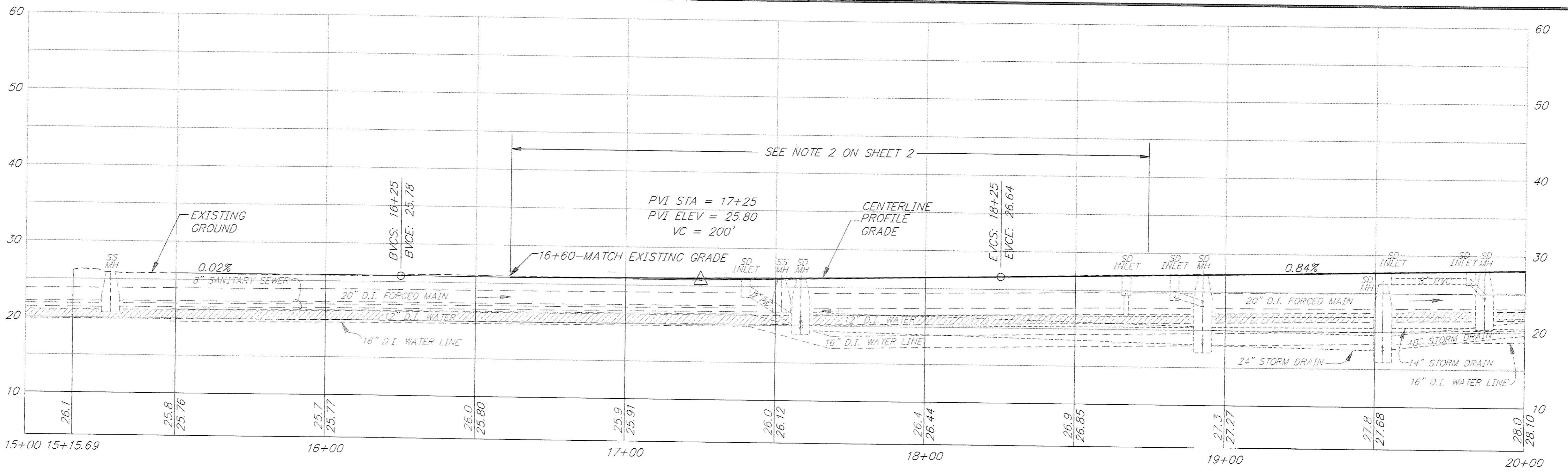
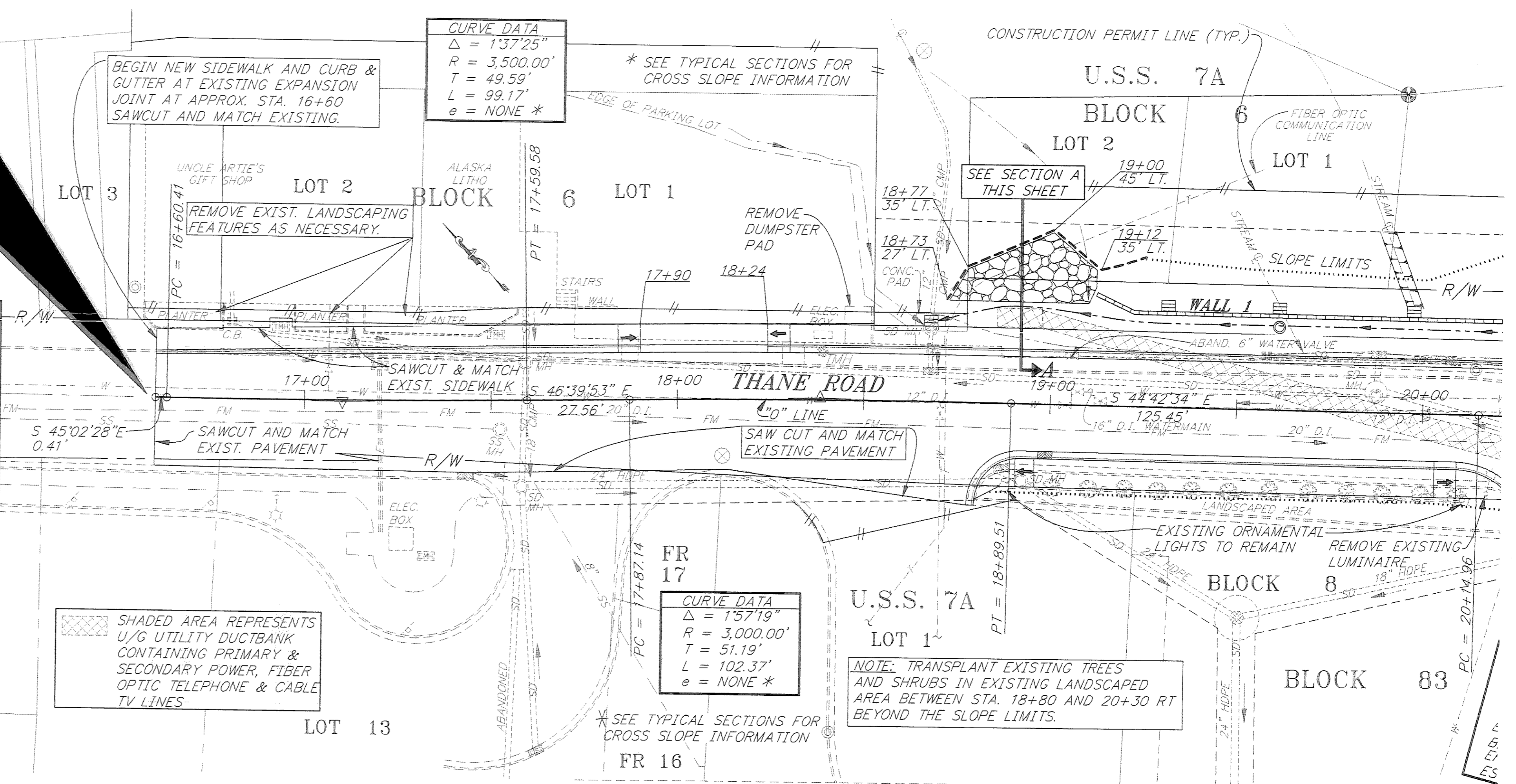
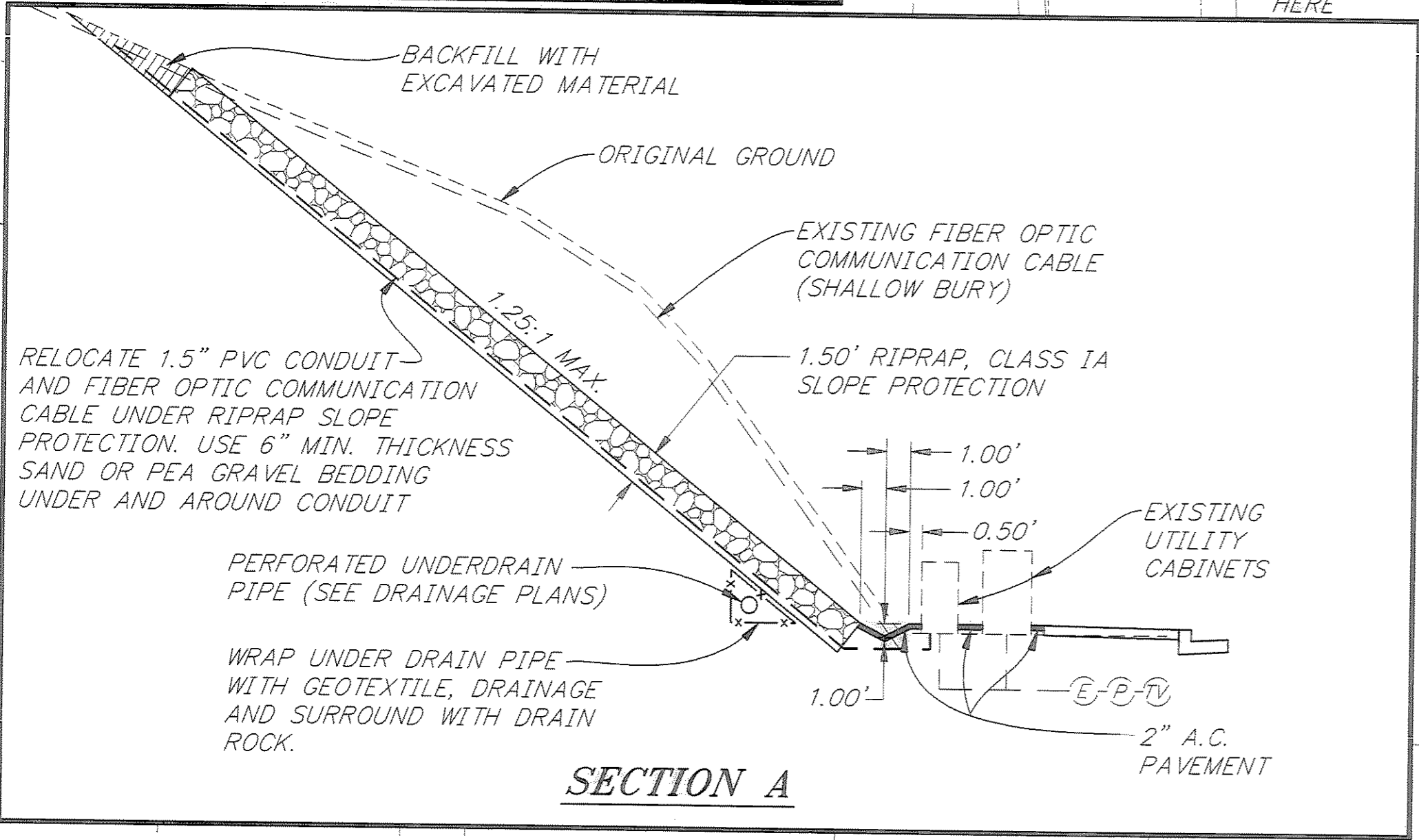


BASIS OF CONTROL

HORIZONTAL CONTROL
 THE PROJECT BASIS OF BEARING IS THE GEODETIC BEARING OF S 48° 58' 12" E FROM DOT CONTROL POINT TH-1 (PROJECT COORDINATES OF N 500,000.00', E 200,000.00') A 1.5" ALUMINUM CAP SET IN THE ASPHALT AT THE GUTTER LINE ACROSS FROM THE SOUTH CORNER OF THE CITY CAFE, AND DOT CONTROL POINT TH-2, (PROJECT COORDINATES OF N 499,739.696, E 200,299.129'), A 1.5" ALUMINUM CAP ON A #5 REBAR SET 0.2' BACK OF SIDEWALK IN FRONT OF THE MOUNT ROBERTS TRAM BUILDING.

VERTICAL CONTROL
 THE BASIS OF VERTICAL CONTROL IS JBM-13, A BRASS CAP SET IN THE FOURTH STEP OF THE "OLD" RELIABLE TRANSFER BUILDING ACROSS FROM THE TRAM, WITH AN ACCEPTED ELEVATION OF 28.66' ABOVE MLLW.

BEGIN PROJECT
P.O.T.
STA. "0" 16+60.00
N = 499,909.0100
E = 200,105.9765



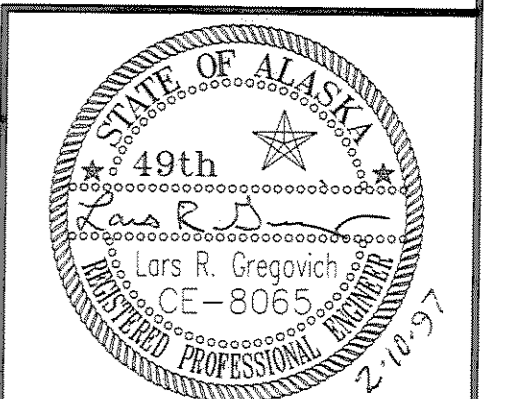
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NO.	DATE	DESCRIPTION OF CHANGE

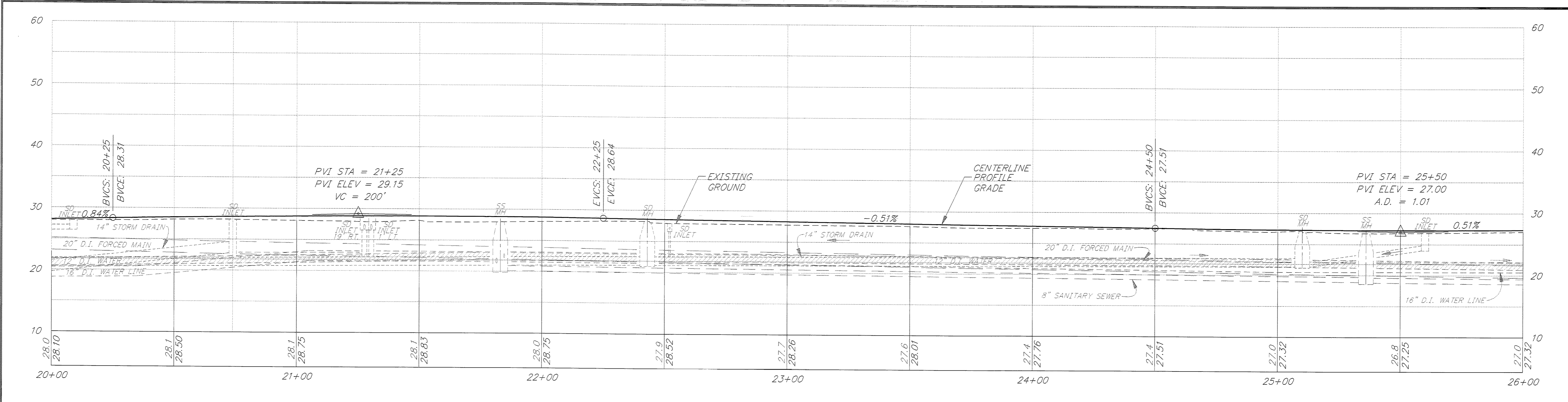
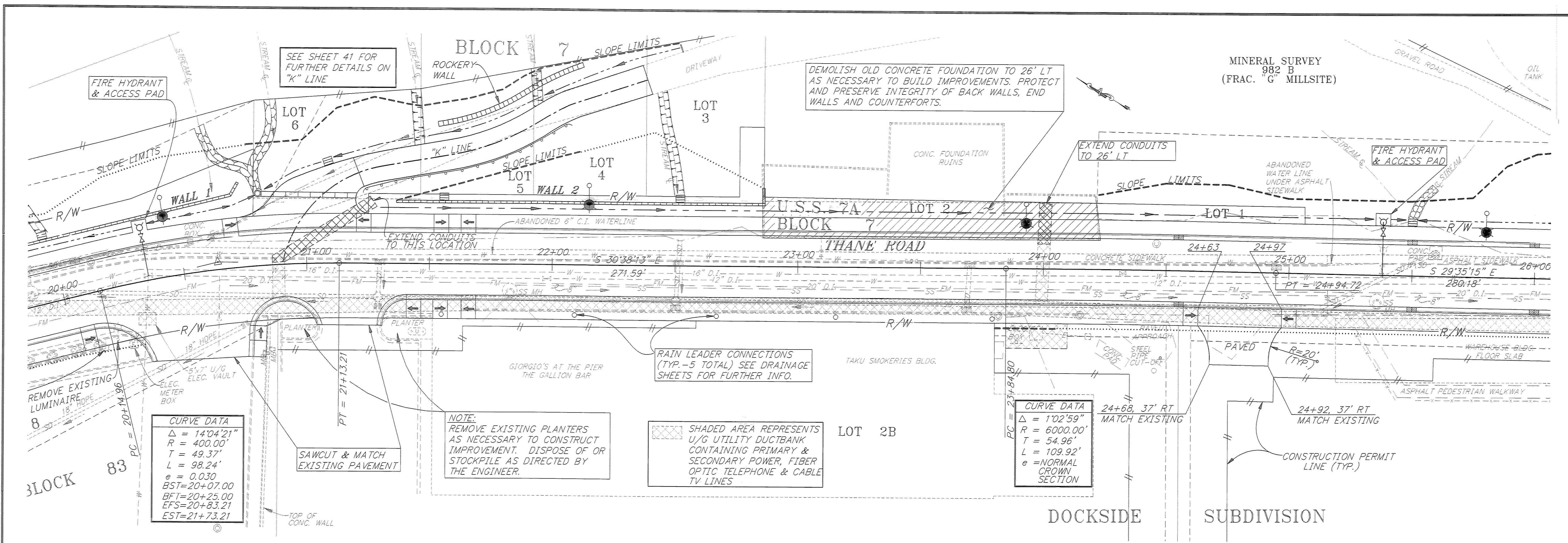
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU ALASKA
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
B.O.P STA. 15+00 TO STA. 20+00
 PLAN & PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 10 OF 59





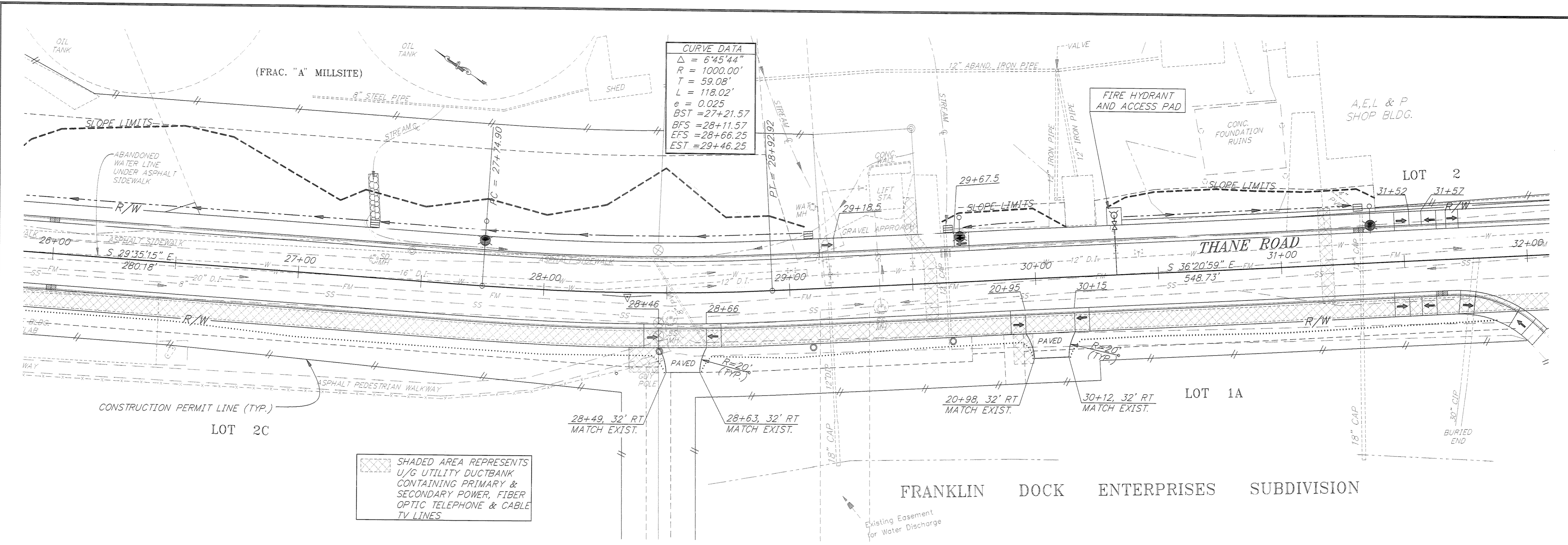
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DATE	DESCRIPTION OF CHANGE

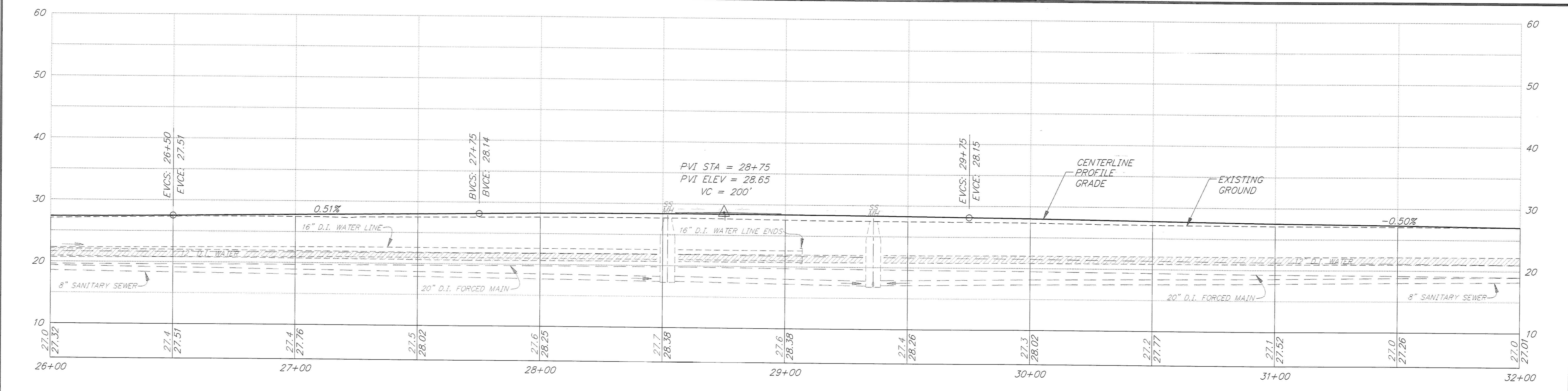
RECORD OF REVISIONS

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION DESIGN & CONSTRUCTION	JUNEAU THANE ROAD RECONSTRUCTION STP-F-M-0963(1) ~ PROJECT NO. 70134 STA. 20+00 TO STA. 26+00 PLAN & PROFILE	ALASKA DESIGNED BY: L. GREGOVICH DRAWN BY: K. SNYDER/W. HICKOK CHECKED BY: A. STEININGER	PROJECT NO. 70134 DATE: FEB. 1997 SHEET 11 OF 59
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SHADED AREA REPRESENTS U/G UTILITY DUCTBANK CONTAINING PRIMARY & SECONDARY POWER, FIBER OPTIC TELEPHONE & CABLE TV LINES



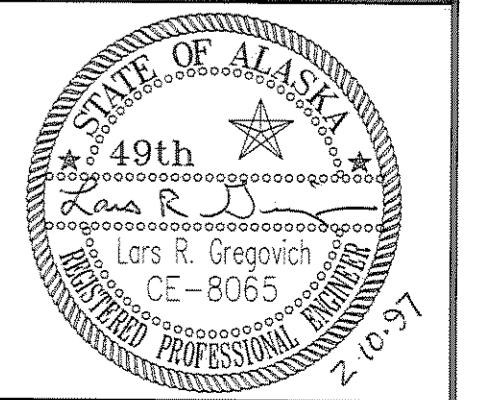
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DATE:	DESCRIPTION OF CHANGE:	

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

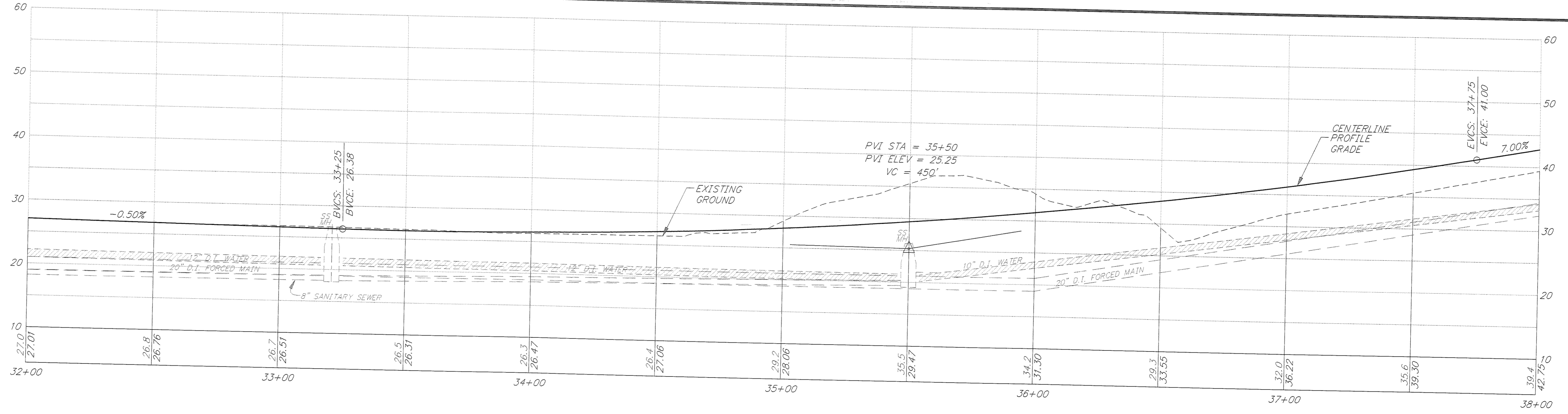
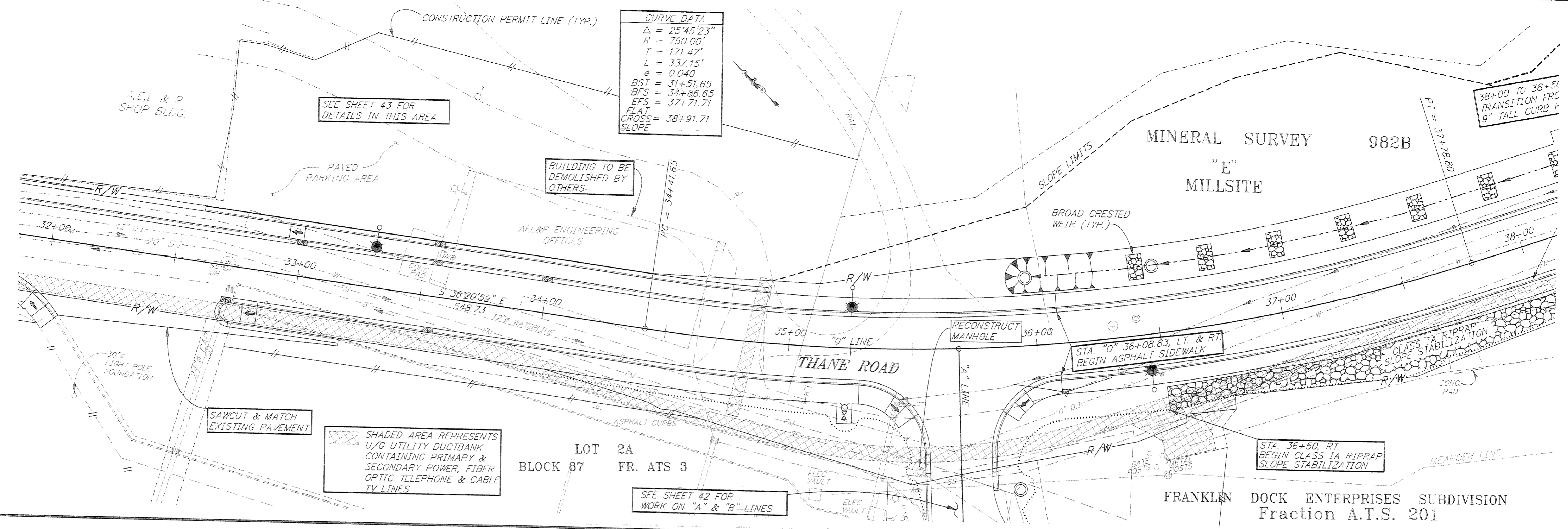
JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
 STA. 26+00 TO STA. 32+00
 PLAN & PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 12 OF 59



CURVE DATA
 $\Delta = 25^{\circ}45'23''$
 $R = 750.00'$
 $T = 171.47'$
 $L = 337.15'$
 $e = 0.040$
 $BST = 31+51.65$
 $BFS = 34+86.65$
 $EFS = 37+71.71$
 $FLAT$
 $CROSS = 38+91.71$
 $SLOPE$



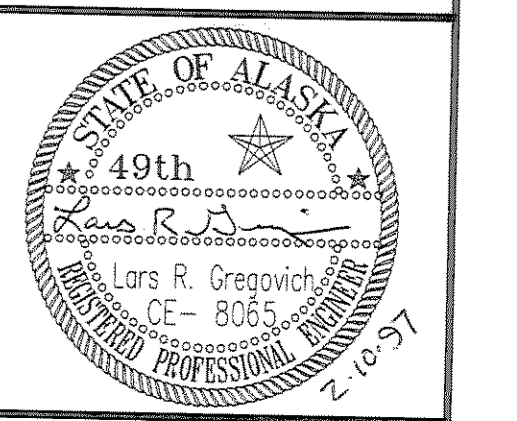
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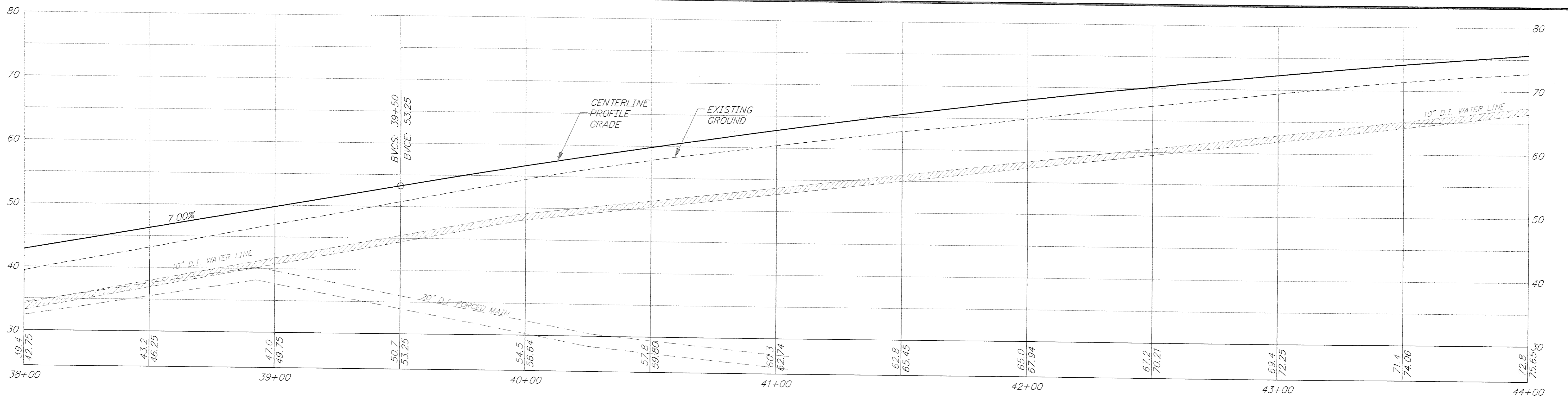
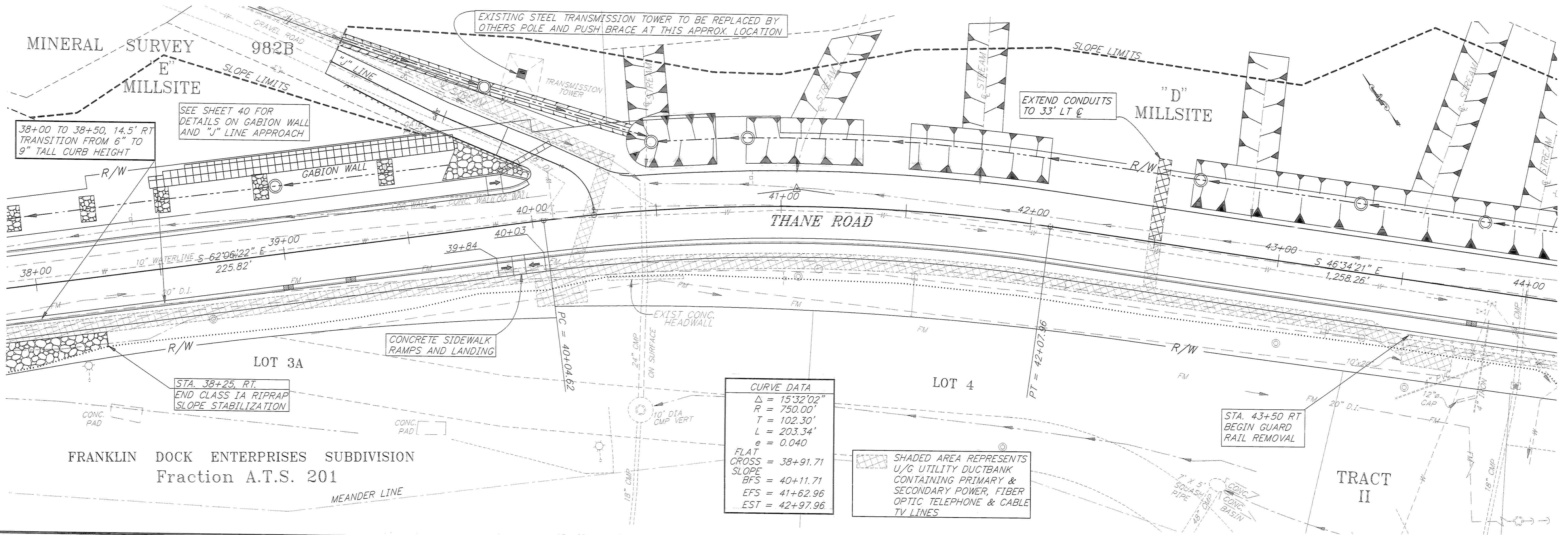
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134
STA. 32+00 TO STA. 38+00
PLAN & PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 13 OF 59





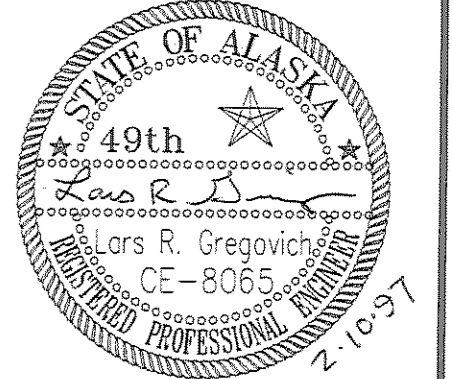
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PLOT: P:\-LIB\-PLOT\PL0TF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

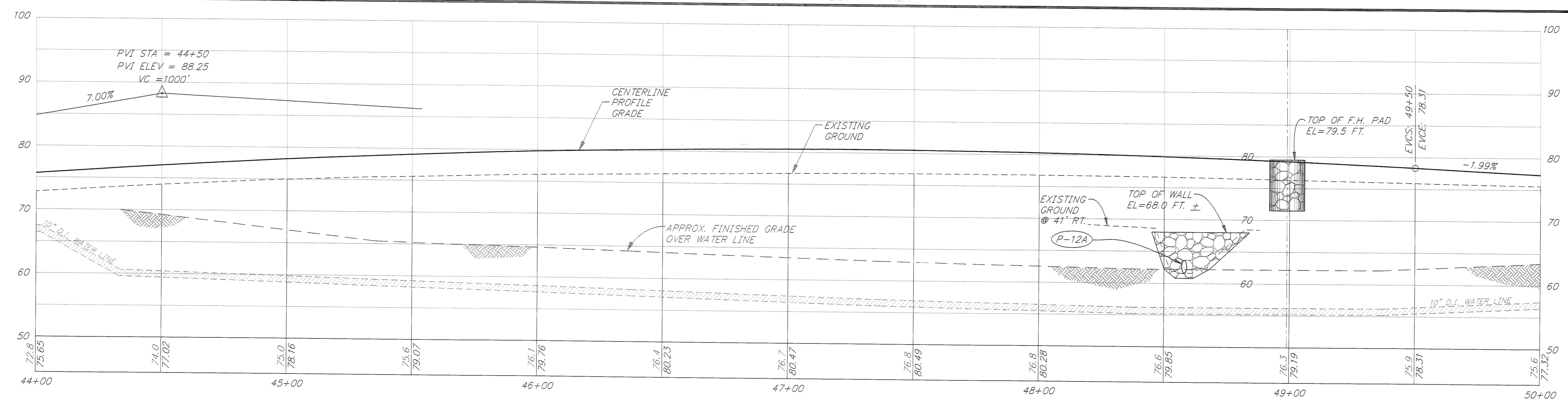
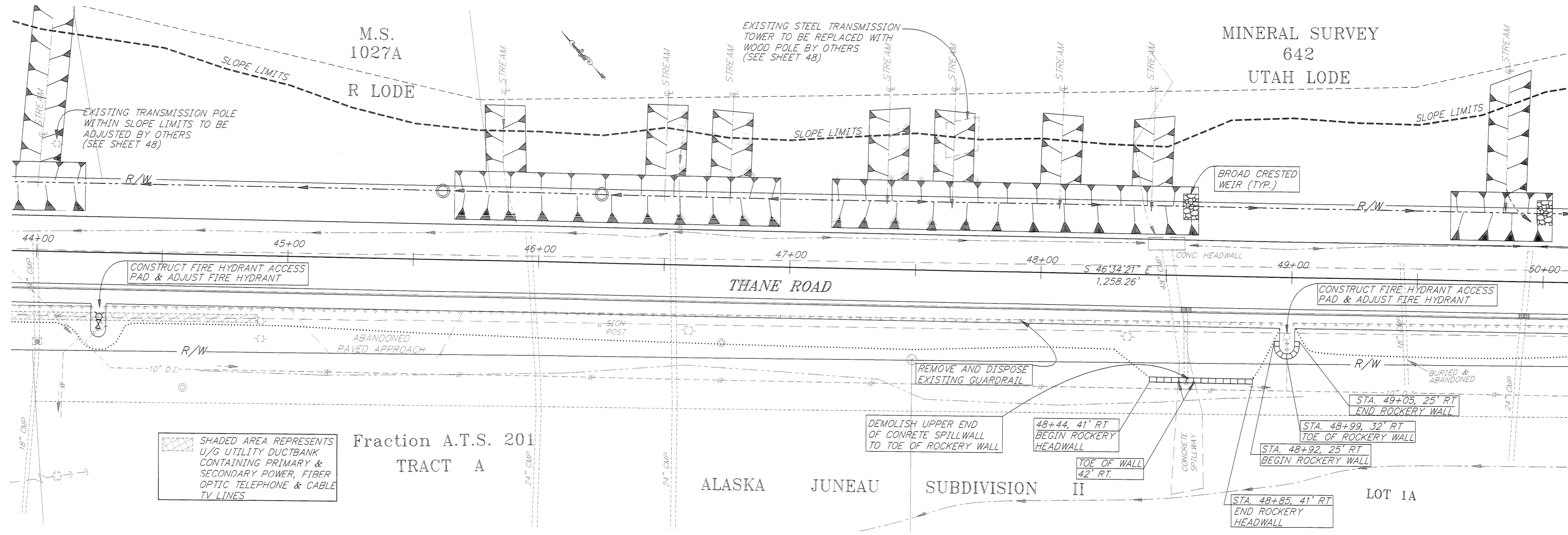
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134
ALASKA
STA. 38+00 TO STA. 44+00
PLAN & PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 14 OF 59





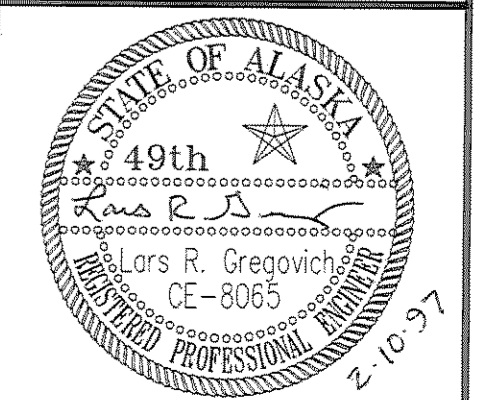
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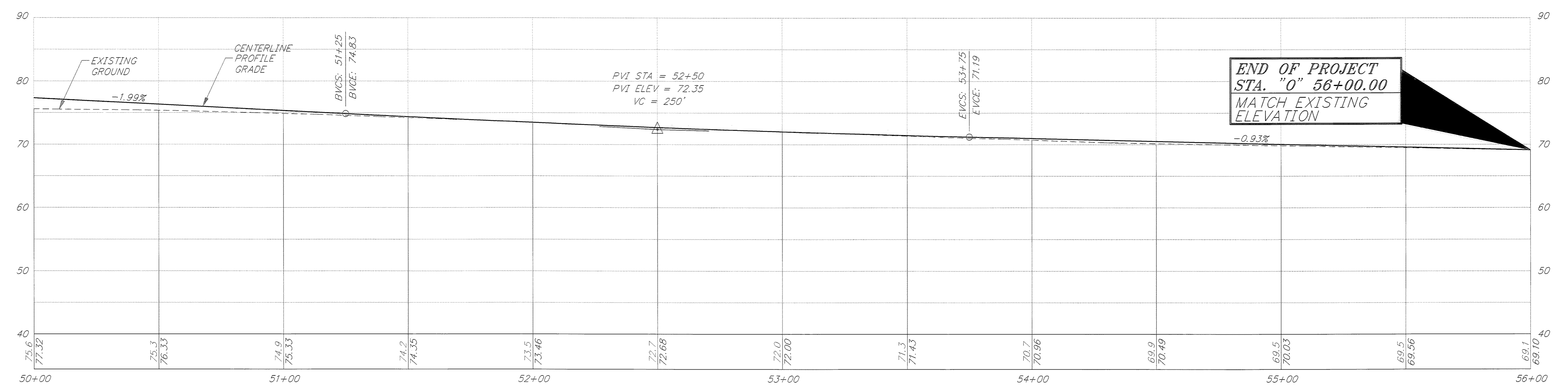
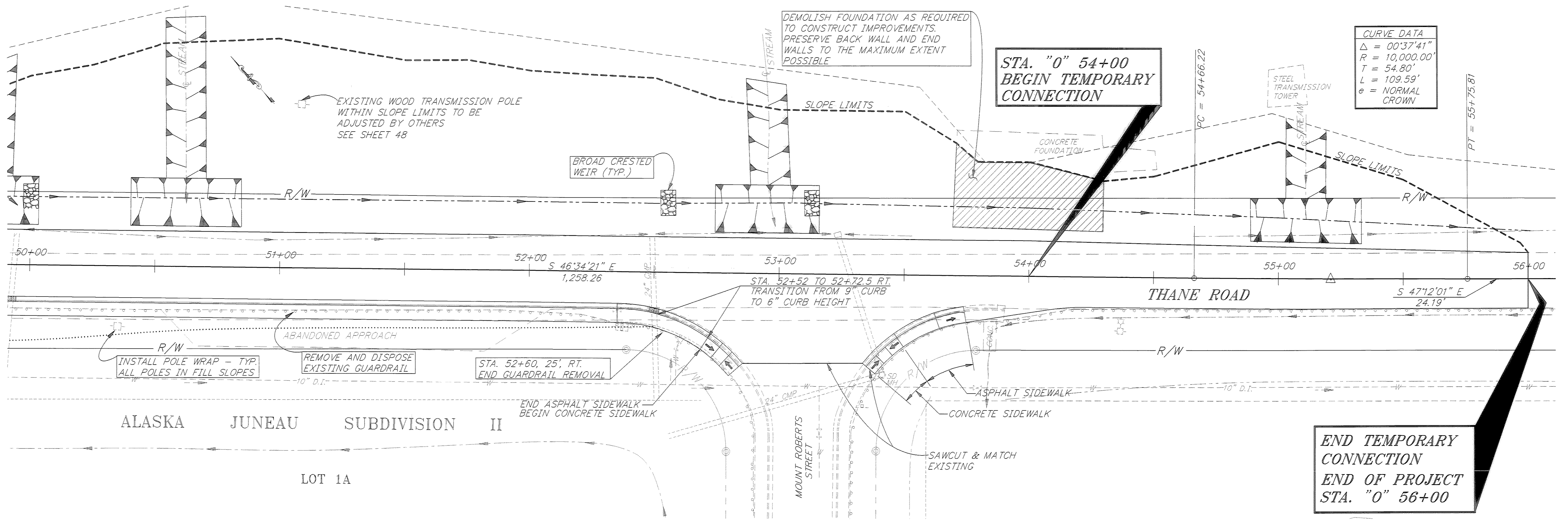
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
 ALASKA
 STA. 44+00 TO STA. 50+00
 PLAN & PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 15 OF 59





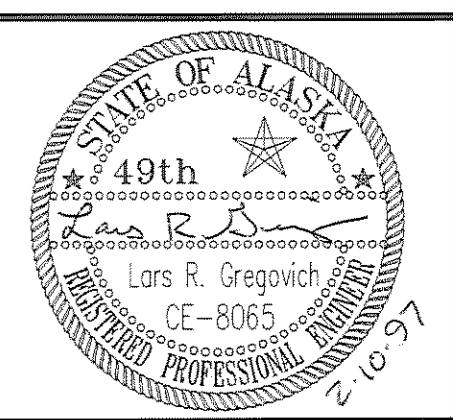
RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

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

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
 ALASKA
STA. 50+00 TO E.O.P. STA. 56+00
 PLAN & PROFILE

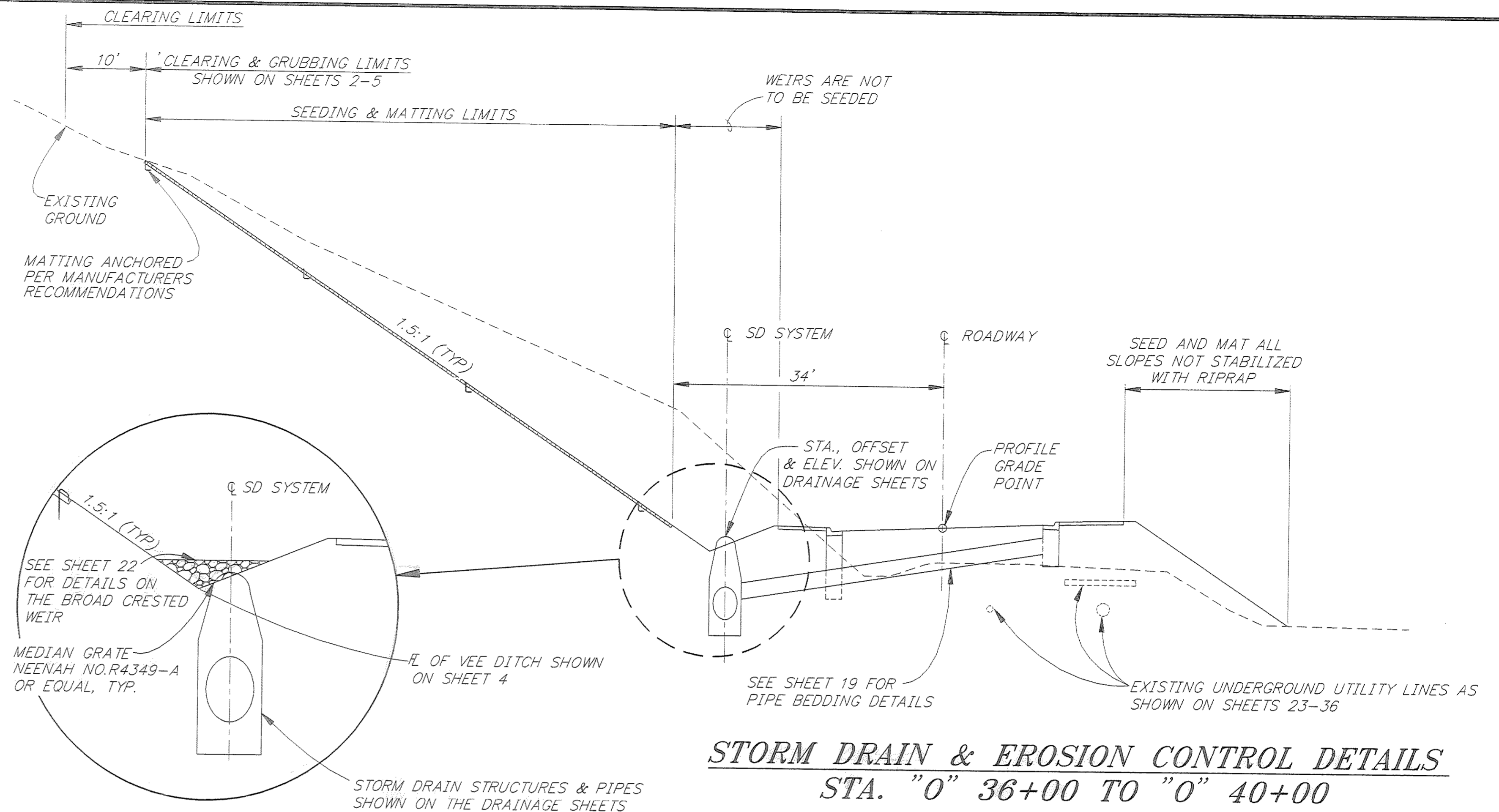
DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 16 OF 59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

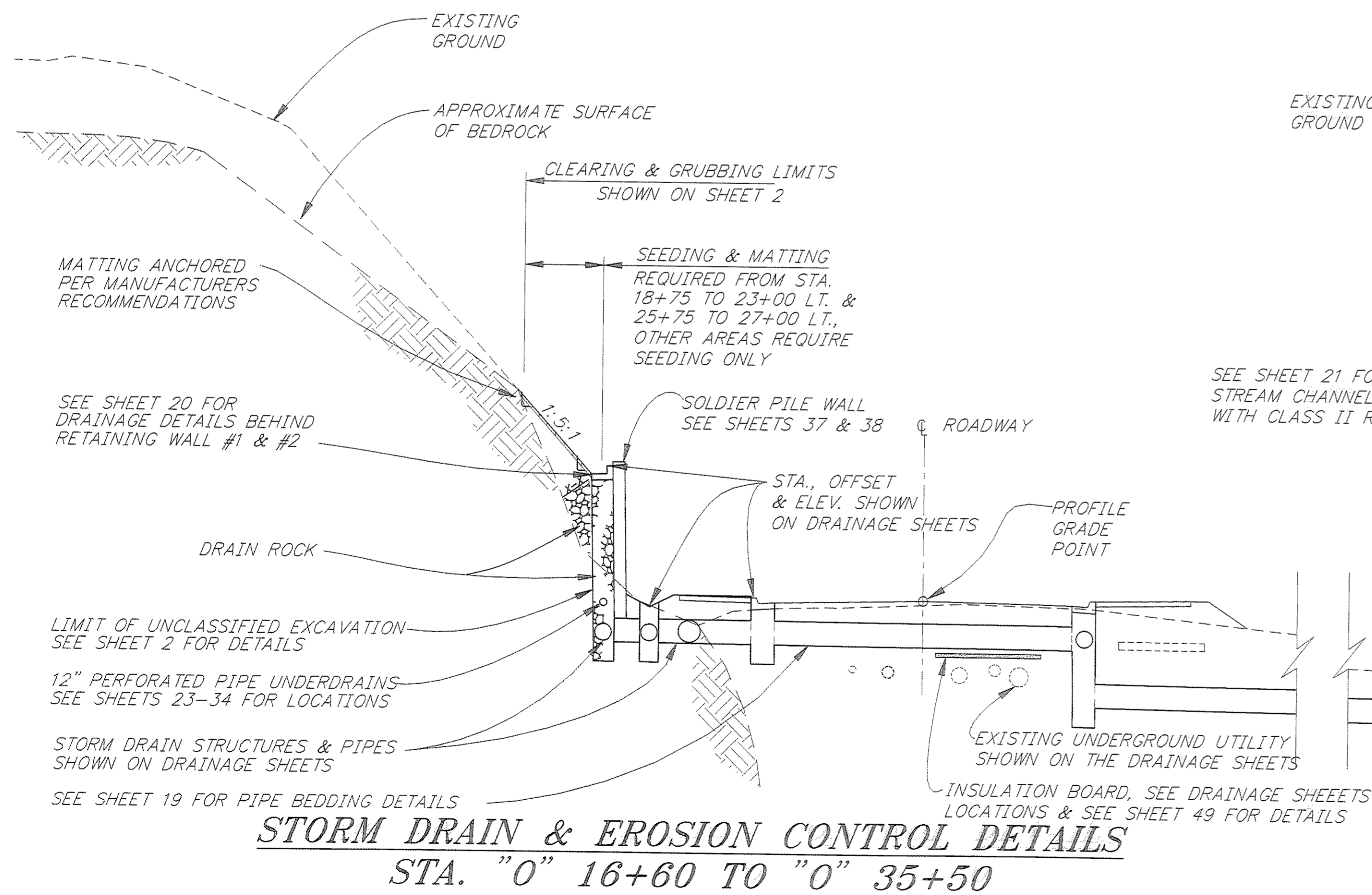


HYDROLOGIC & HYDRAULIC SUMMARY

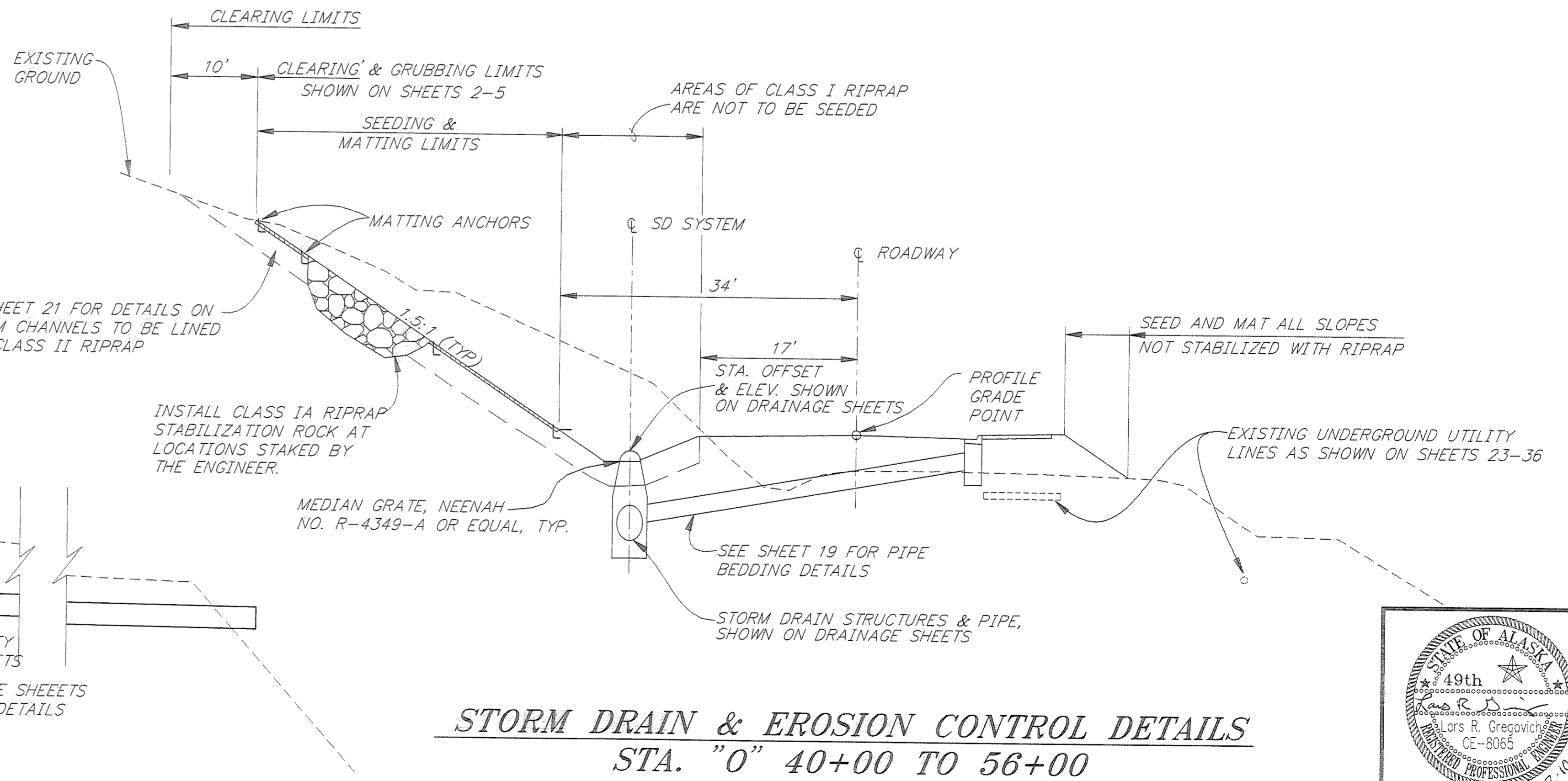
	STATIONS				
	BOP TO 25+50	25+50 TO 36+00	36+00 TO 40+00	40+00 TO 47+25	47+25 TO EOP
DRAINAGE AREA AC	70	20	110	40	180
EXCEEDANCE & PROBABILITY	1%	1%	1%	1%	1%
DESIGN DISCHARGE Q100	50	15	80	30	130
ALLOWABLE PONDING NEXT TO CURB	GUTTER, PLUS 3.5' ALL AREAS				
ALLOWABLE DITCH FLOW-CFS	25	25	110	30	100



STORM DRAIN & EROSION CONTROL DETAILS
STA. "0" 36+00 TO "0" 40+00



STORM DRAIN & EROSION CONTROL DETAILS
STA. "0" 16+60 TO "0" 35+50



STORM DRAIN & EROSION CONTROL DETAILS
STA. "0" 40+00 TO 0 56+00

PATH:	P: \JNU\70134\DR\ -DRAIN1	
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

JUNEAU

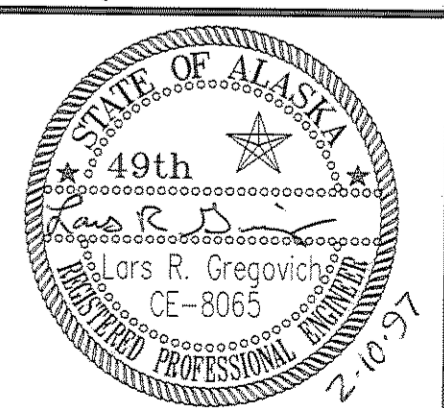
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
**DRAINAGE & PERMANENT
EROSION CONTROL DETAILS**

ALASKA

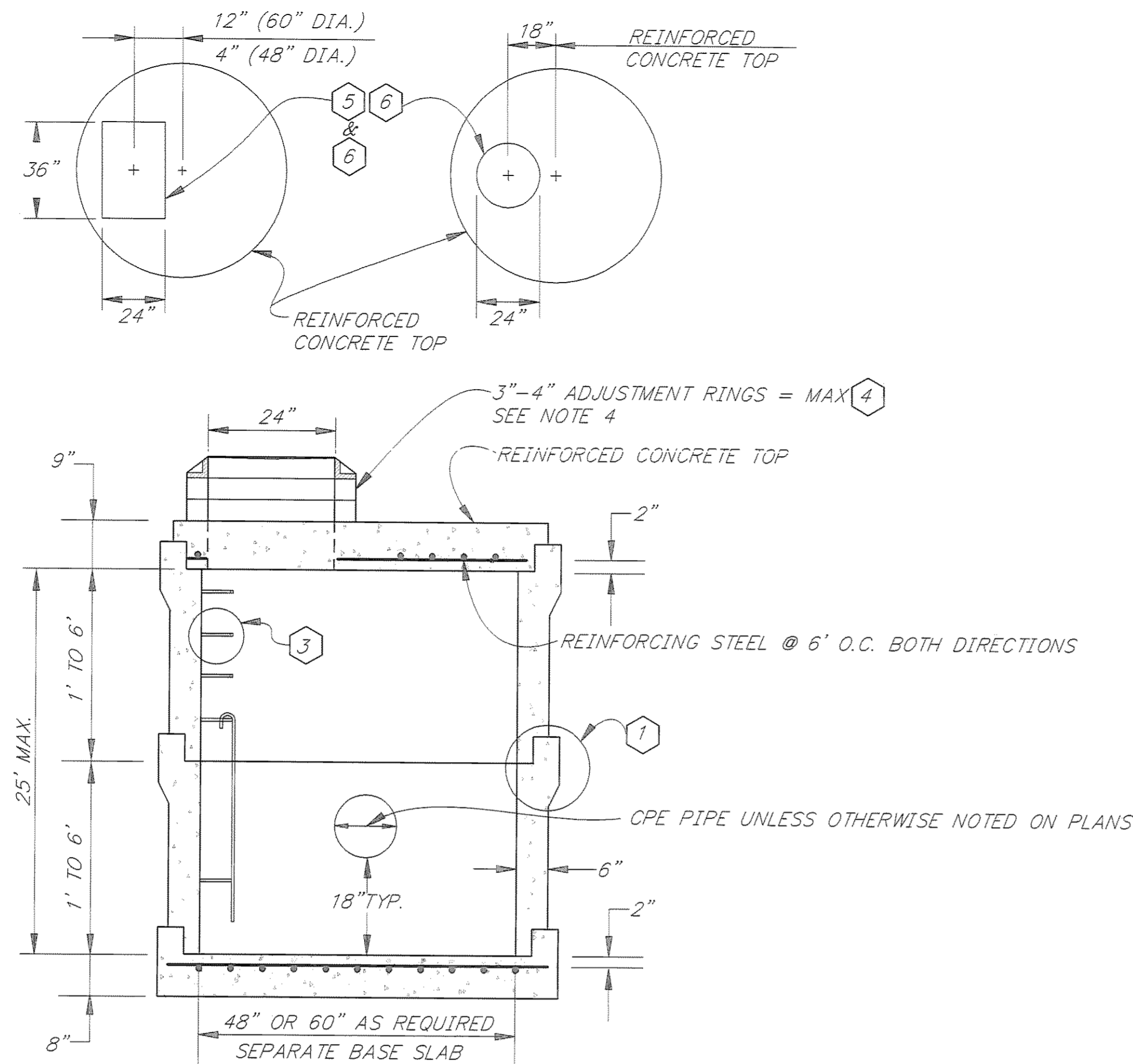
DESIGNED BY:
E. CAVAGNARO
DRAWN BY:
K. SNYDER
CHECKED BY:
D. GRIGGS

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 17 OF 59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



STORM DRAIN GENERAL NOTES



NOTES:

1. ALL JOINTS BETWEEN SECTIONS SHALL BE SEALED BY "RAM-NEK", "RUB-R-NECK" OR OTHER APPROVED GASKETING MATERIAL.
2. REFER TO A.S.T.M. C-478 FOR DESIGN REQUIREMENTS AND C-478-69 FOR MINIMUM STEEL FOR BARREL.
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE. LAST RUNG SHALL BE 18" MAX FROM BOTTOM OF MANHOLE, AND TOP RUNG SHALL BE 6" MAXIMUM FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, LAST RUNG SHALL BE PLACED 6" OVER SMALLEST PIPE.
4. STRUCTURE 10A & 10B SHALL ONLY USE 1'-4" ADJUSTING RING.
5. OPENING FOR GRATES AND FRAMES SHOWN ON STD. DWG. D-23.00 & D-24.00
6. OPENINGS FOR GRATES AND FRAMES SHOWN ON STD. DWG. D-20.02 AND FOR R-4943-A.

TYPE "B" INLET DETAILS

1. SOME UNDERDRAINS OUTFALL INTO DITCHES, INSTEAD OF INLETS. SEE THE DRAINAGE SHEETS FOR OUTFALL LOCATIONS.
2. PIPES LOCATED BEHIND THE RETAINING WALLS SHALL BE BEDDED & BACKFILLED WITH DRAIN ROCK.
3. STRUCTURE 3A HAS A GALVANIZED PLATES THAT ARE TO BE ATTACHED TO IT, SEE SHEET 24 FOR DETAILS.
4. UNLESS OTHERWISE NOTED ON THE PLANS, ALL INLETS ARE TO BE CONSTRUCTED WITH AN 18 INCH SUMP.
5. SEE SUBSECTION 204-2.01 FOR TYPES OF BEDDING AND BACKFILL TO BE USED.
6. ALL KNOWN UNDERGROUND UTILITY LINES ARE SHOWN ON THE PLANS. HOWEVER, SHOULD THE EXISTING WATER AND PRESSURE SEWER MAINS BE DAMAGED, THEY ARE TO BE SHUT DOWN USING THE PROCEDURES ESTABLISHED PRIOR TO BEGINNING ANY WORK. AN INFORMATION MEETING SHALL BE CONDUCTED TO DISCUSS REPAIR OF THE UTILITY LINE(S) ACCIDENTALLY DAMAGED DURING CONSTRUCTION. THE TOPICS TO BE DISCUSSED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - a) WHO IS TO SHUT DOWN THE DAMAGED LINE(S) IF THE LINE(S) ARE TO BE SHUT DOWN BY SOMEONE OTHER THAN THE OWNER AND HOW THE LINE IS TO BE SHUT DOWN.
 - b) WHO'S TO MAKE THE REPAIRS AND WHEN.
 - c) WHAT REPAIR PARTS ARE LOCATED IN JUNEAU.
 - d) WHO & HOW THE LINES ARE TO BE PUT BACK IN SERVICE.
 - e) HOW THE USERS ARE TO BE NOTIFIED.
7. THE FOLLOWING IS PRESENTED FOR THE CONTRACTOR'S INFORMATION:
 - A) THE PRESSURE IN THE WATER MAINS IS 80 PSI AND IS MAINTAINED AT A CONSTANT PRESSURE AND FLOW BY THE PRESSURE REDUCING VALVE (PRV). THE PRV IS LOCATED LEFT OF STATION 29+10 FOR FIRE FIGHTING PURPOSES.
 - B) THE PRESSURE AND VOLUME IN THE PRESSURE SEWER LINE VARIES DEPENDING ON THE NUMBER OF VARIABLE SPEED PUMPS ON AT ANY GIVEN TIME. THE PRESSURE AND VOLUME ARE GOVERNED BY 3 VARIABLE SPEED PUMPS LOCATED IN THE WILLOUGHBY AVE. PUMP STATION. THE 3 PUMPS ARE MANNED 24 HOURS PER DAY AND MOVE 2,000,000 TO 8,000,000 GALLONS OF SEWAGE PER DAY AT 20 TO 60 PSI.
8. ALL UTILITY LINES SHOWN ON THE DRAINAGE SHEETS ARE TO REMAIN IN SERVICE. HOWEVER, THE EXISTING STORM DRAIN MANHOLES ARE TO BE REMOVED. THE EXISTING STORM DRAIN LINES ARE TO BE ABANDONED IN PLACE.
9. THE CONTRACTOR MAY ENCOUNTER BEDROCK WHEN INSTALLING PIPES, CONDUITS, AND MINOR STRUCTURES. SEE SUBSECTION 204.
10. FROM STA. 38+50 TO STA. 53+00 RT. A 9 INCH HIGH CURB IS TO BE CONSTRUCTED. THE CONTRACTOR SHALL SUPPLY A GRATE & FRAME MEETING THE CRITERIA SHOWN ON STD. DWG. D-23.00 AND THAT IS ADJUSTABLE TO 9 INCHES HIGH.

TYPE B INLET SUMMARY

STRUCTURE NO.	48" DIA. 5	48" DIA. 6	60" DIA. 6
S-4		1	
5		1	
5C	1		
5D	1		
8		1	
8A		1	
8B	1		
10			1
10A			1
10B			1
10C			1
11			1
11A			1
11B			1
11C			1
11D		1	
11E		1	
11G		1	
11H		1	
S-13	1		
S-14	1		
TOTALS	5	8	8

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \JNU\70134\DR\—DITCH1		
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

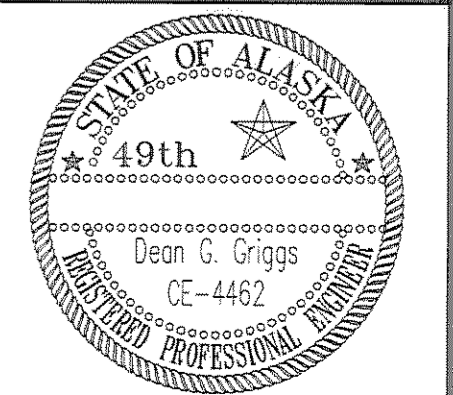
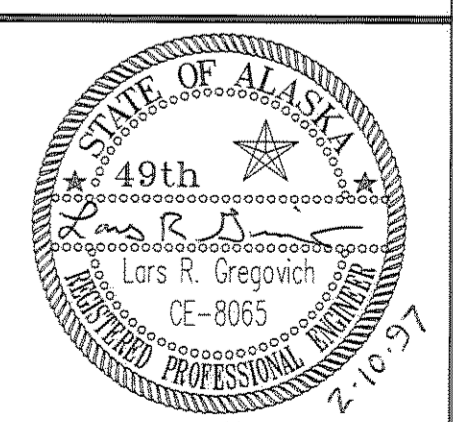
JUNEAU

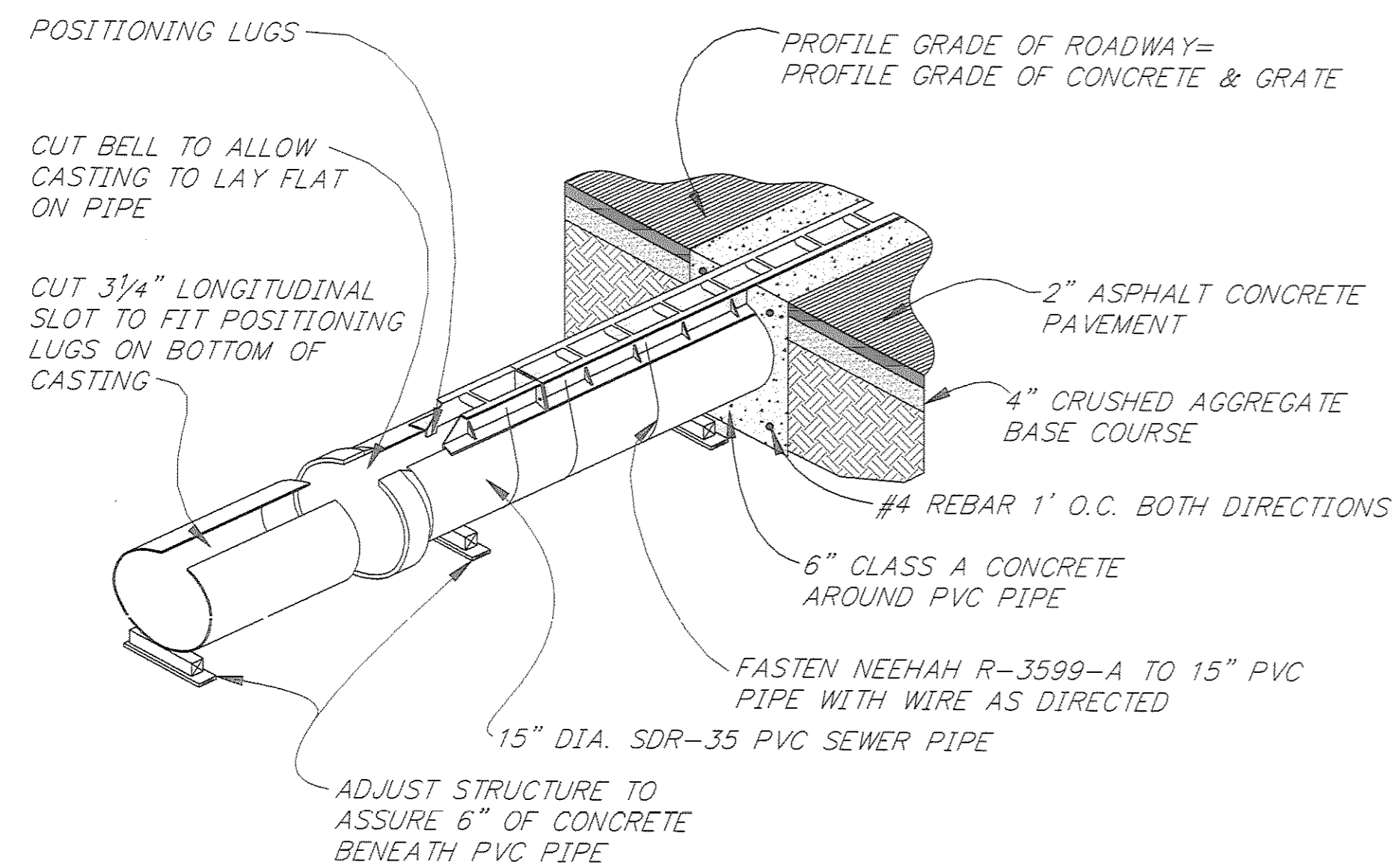
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
DRAINAGE DETAILS

ALASKA

DESIGNED BY: E. CAVAGNARO
DRAWN BY: W. HICKOK
CHECKED BY: D. GRIGGS

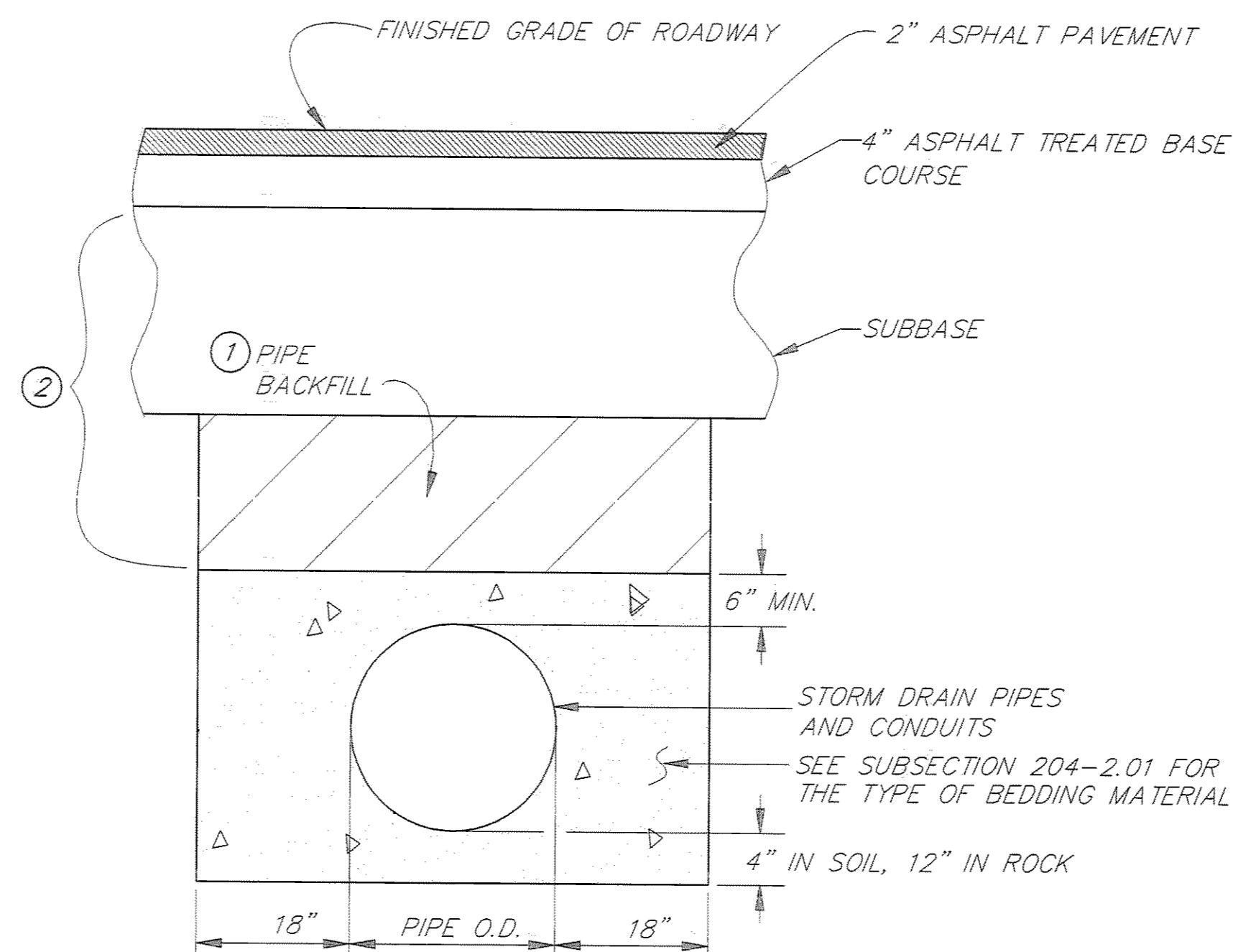
PROJECT NO. 70134
DATE: FEB. 1997
SHEET 18 OF 59



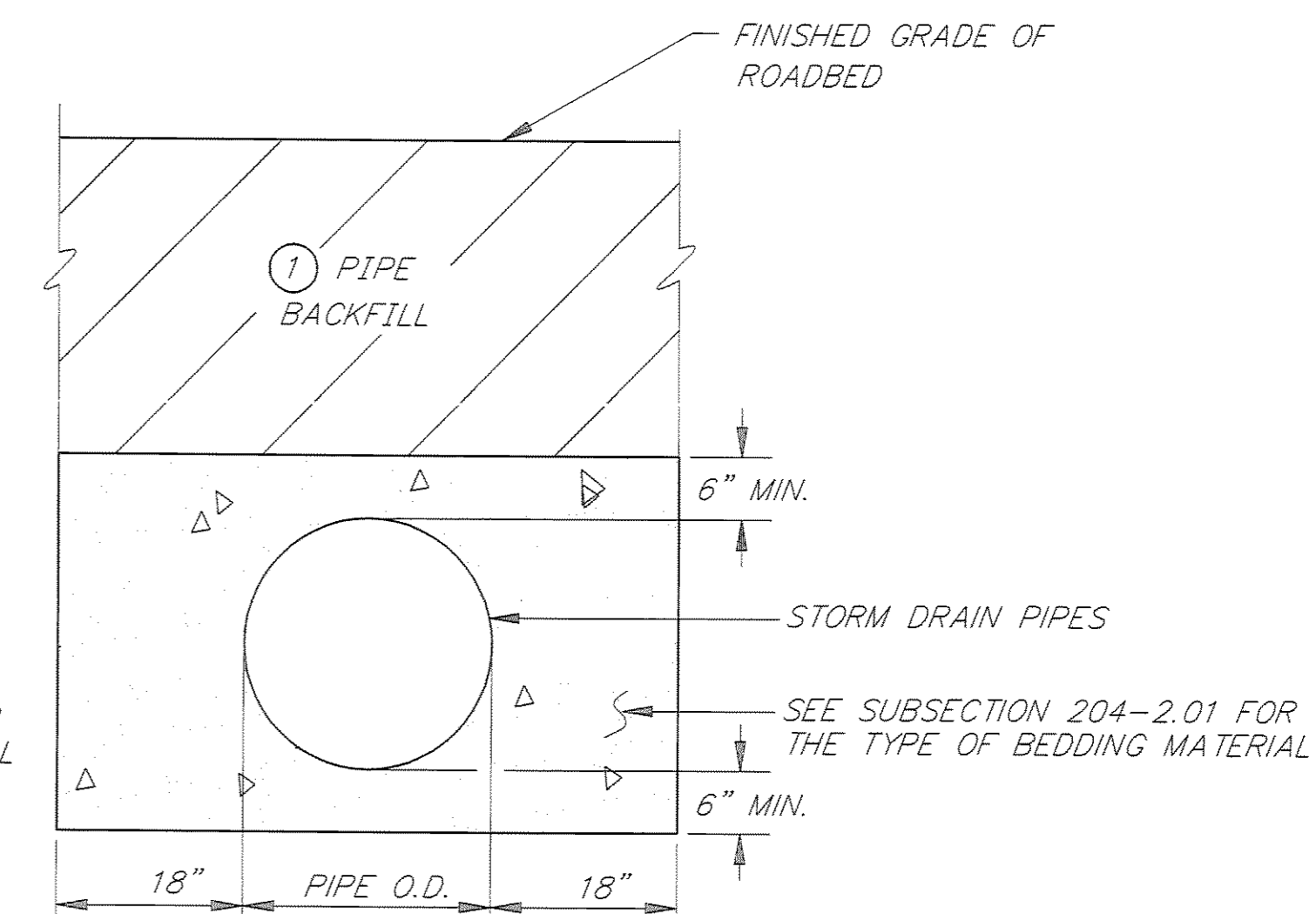


SLOTTED INLET DETAIL

SLOTTED DRAIN SUMMARY			
STA TO STA	L.F. OF CASTING	L.F. OF PIPE	REMARKS
"0"20+85 TO "0"21+10 LT	24'	26'	
"0"39+90 TO "0"40+14 LT	24'	46'	15" 45° ELBOW REQ'D.



PIPES UNDER ROADWAYS
N.T.S.

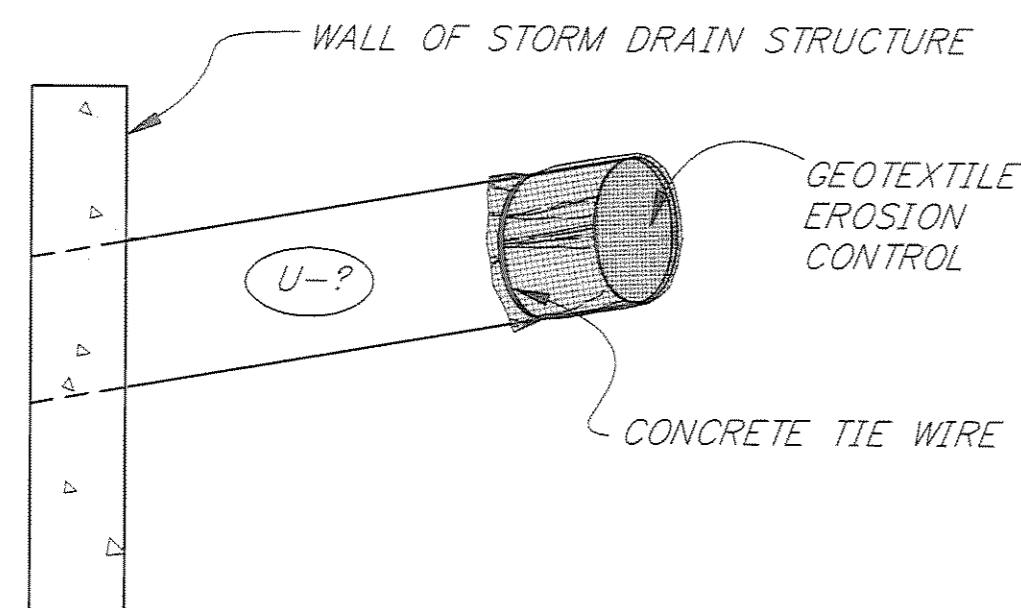


PIPES ADJACENT TO ROADWAY
N.T.S.

NOTES:

- ① PIPE BACKFILL SHALL BE SELECTED OR USEABLE UNCLASSIFIED EXCAVATION MEETING THE REQUIREMENTS OF SELECTED MATERIAL TYPE C UNLESS OTHERWISE NOTED.
- ② PRIOR TO INSTALLING OF THE ATB, 2 FEET OF EMBANKMENT MATERIAL SHALL BE MAINTAINED OVER ALL PIPES CROSSING THE ROADWAY
- ③ THE TYPE OF PIPE BEDDING AND BACKFILL FOR ALL DRAINAGE PIPES LOCATED BEHIND ALL OF THE RETAINING WALLS SHALL BE DRAIN ROCK.

BEDDING AND BACKFILL DETAILS



UNDERDRAIN DETAIL

TO BE USED AT ALL ENDS OF UNDERDRAINS WHERE NOT DAYLIGHTED UNLESS DETAILED OTHERWISE.

PATH: P: \JNU\70134\DR\ -DITCH2		
PLOT: P: \-LIB\ -PLOT\ PLOT.F.PCP(10) OR PLOT.H.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

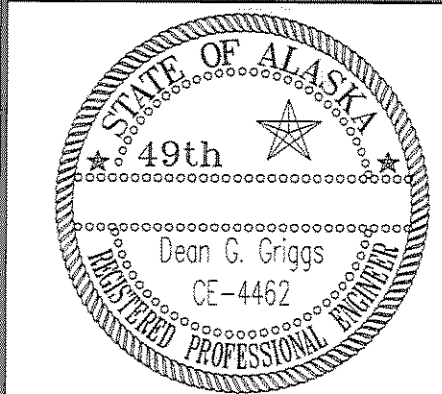
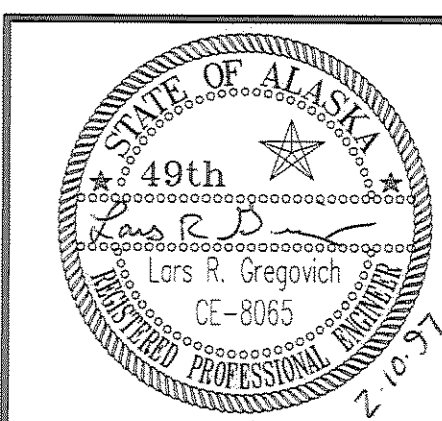
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

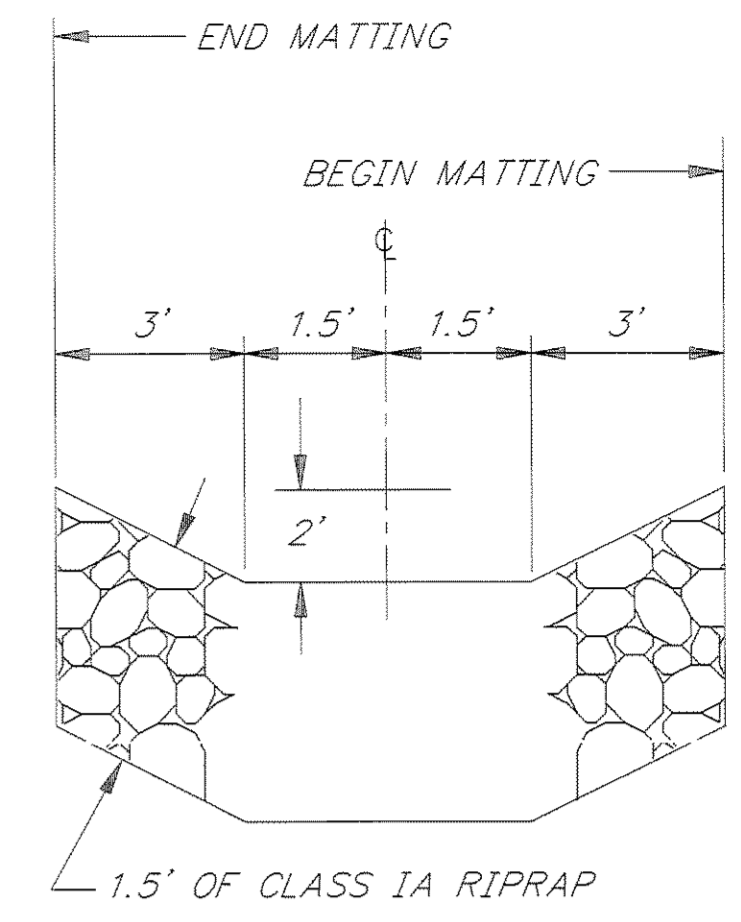
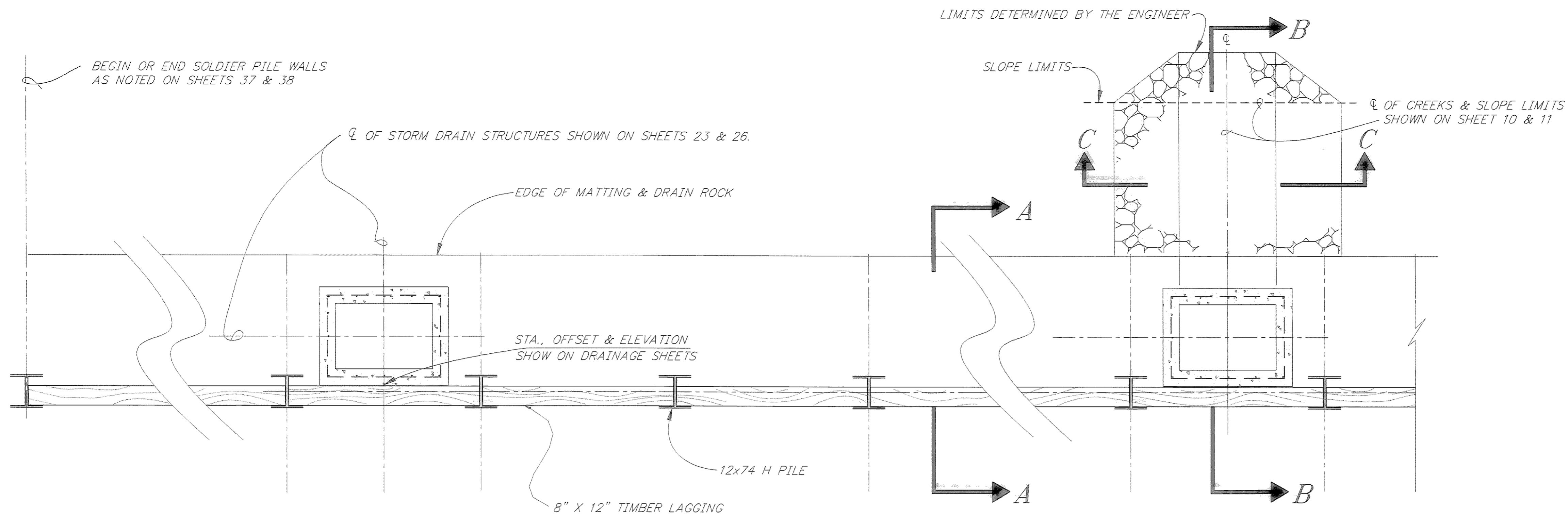
JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
ALASKA
DRAINAGE DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

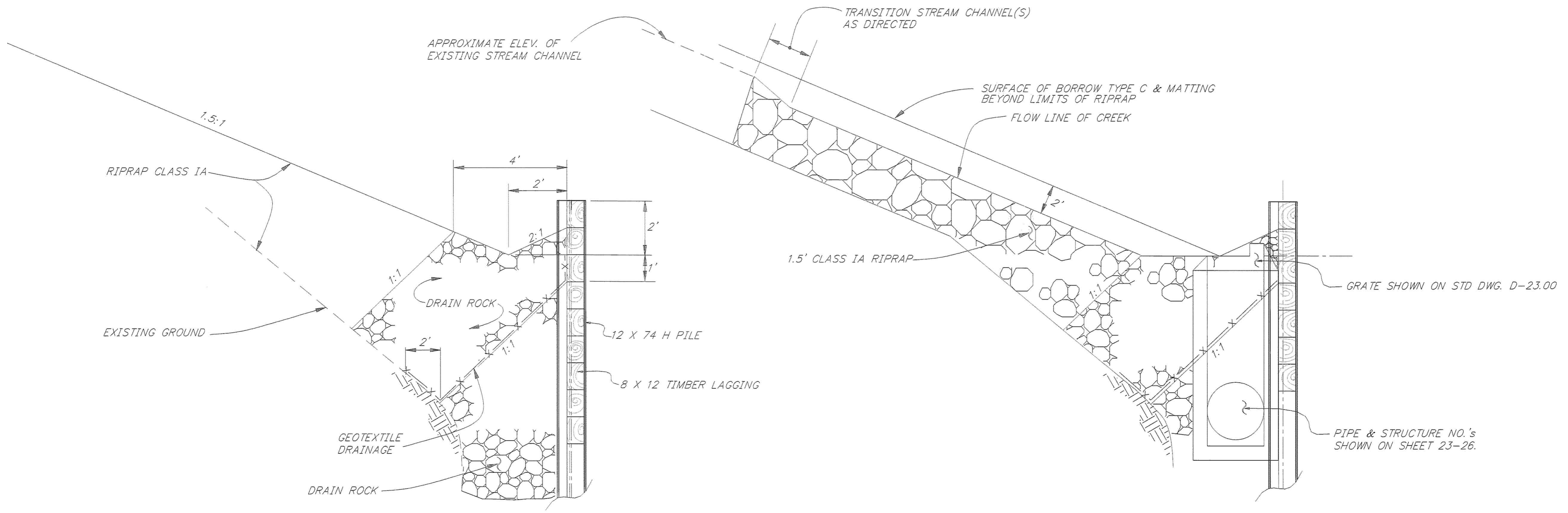
DESIGNED BY: E. CAVAGNARO	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: D. GRIGGS	SHEET 19 OF 59





SECTION C-C

PLAN



SECTION A-A

SECTION B-B

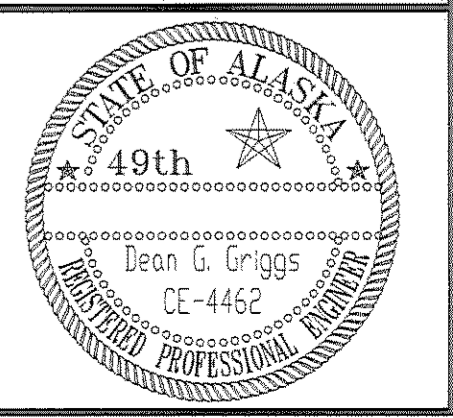
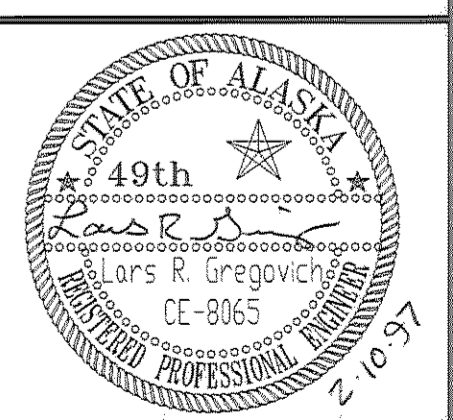
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

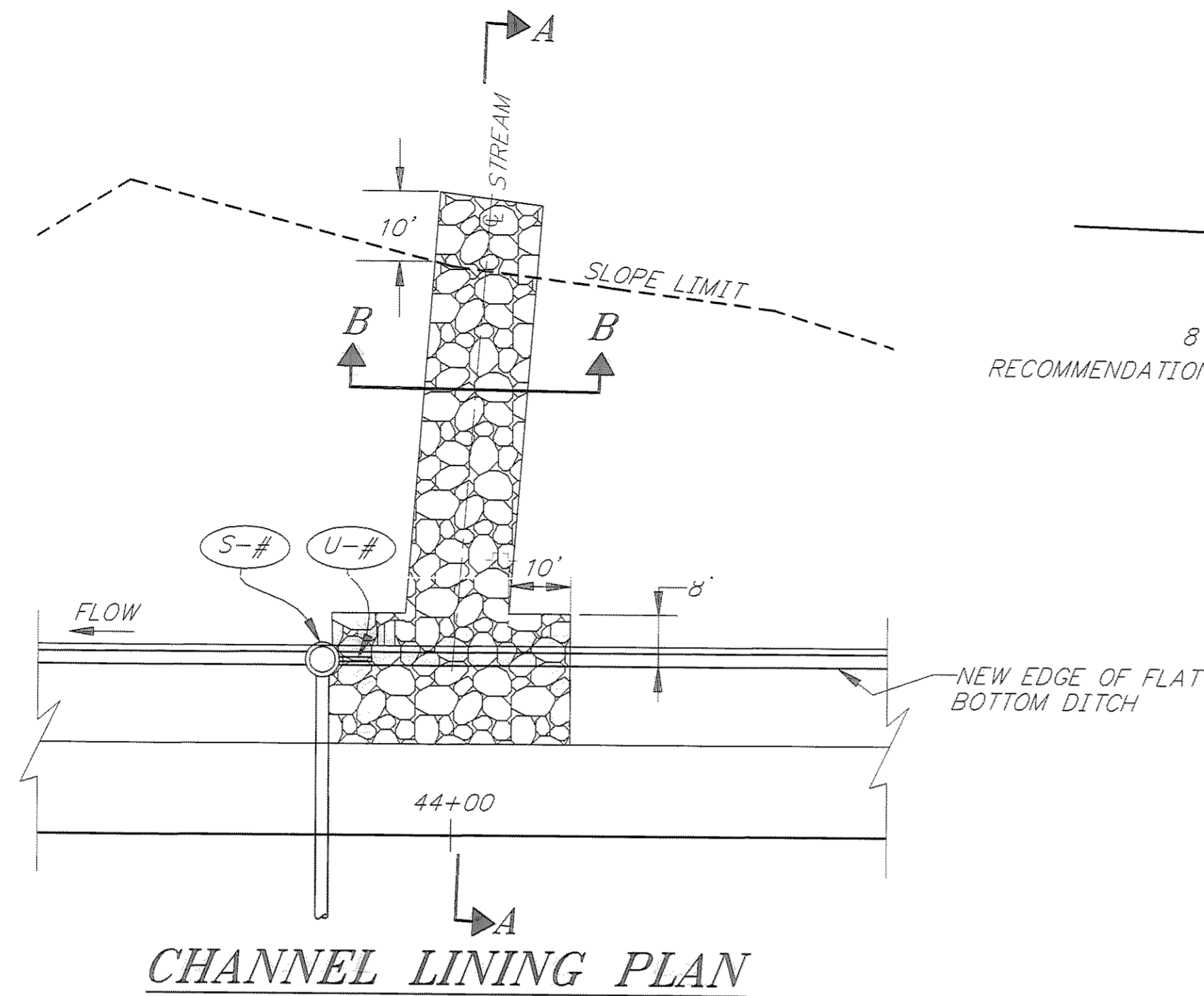
PATH: P: \JNU\70134\DR\--DRAIND2		
PLOT: P: \-LIB\--PLOT\PLOT.F.PCP(2) OR PLOTH.PCP(4)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

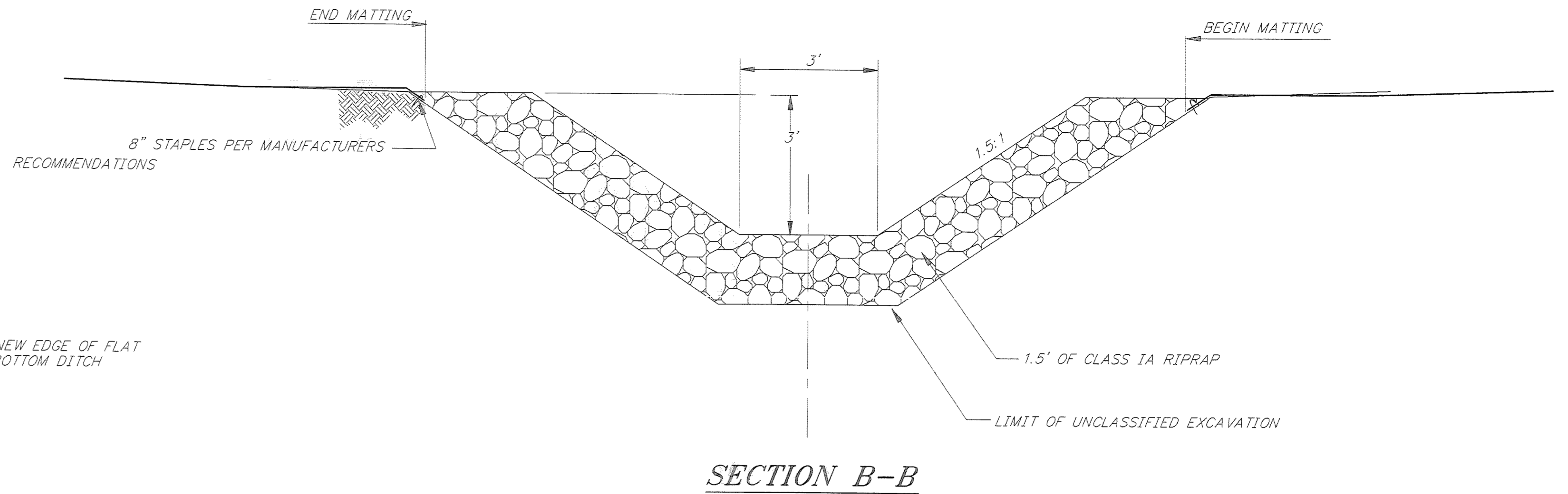
JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0936(1) ~ PROJECT NO. 70134
 ALASKA
**DRAINAGE DETAILS BEHIND
 RETAINING WALLS NO. 1 & 2**

DESIGNED BY:	ED CAVAGNARO	PROJECT NO.	70134
DRAWN BY:	W. HICKOK	DATE:	FEB. 1997
CHECKED BY:	L. GREGOVICH	SHEET	20 OF 59





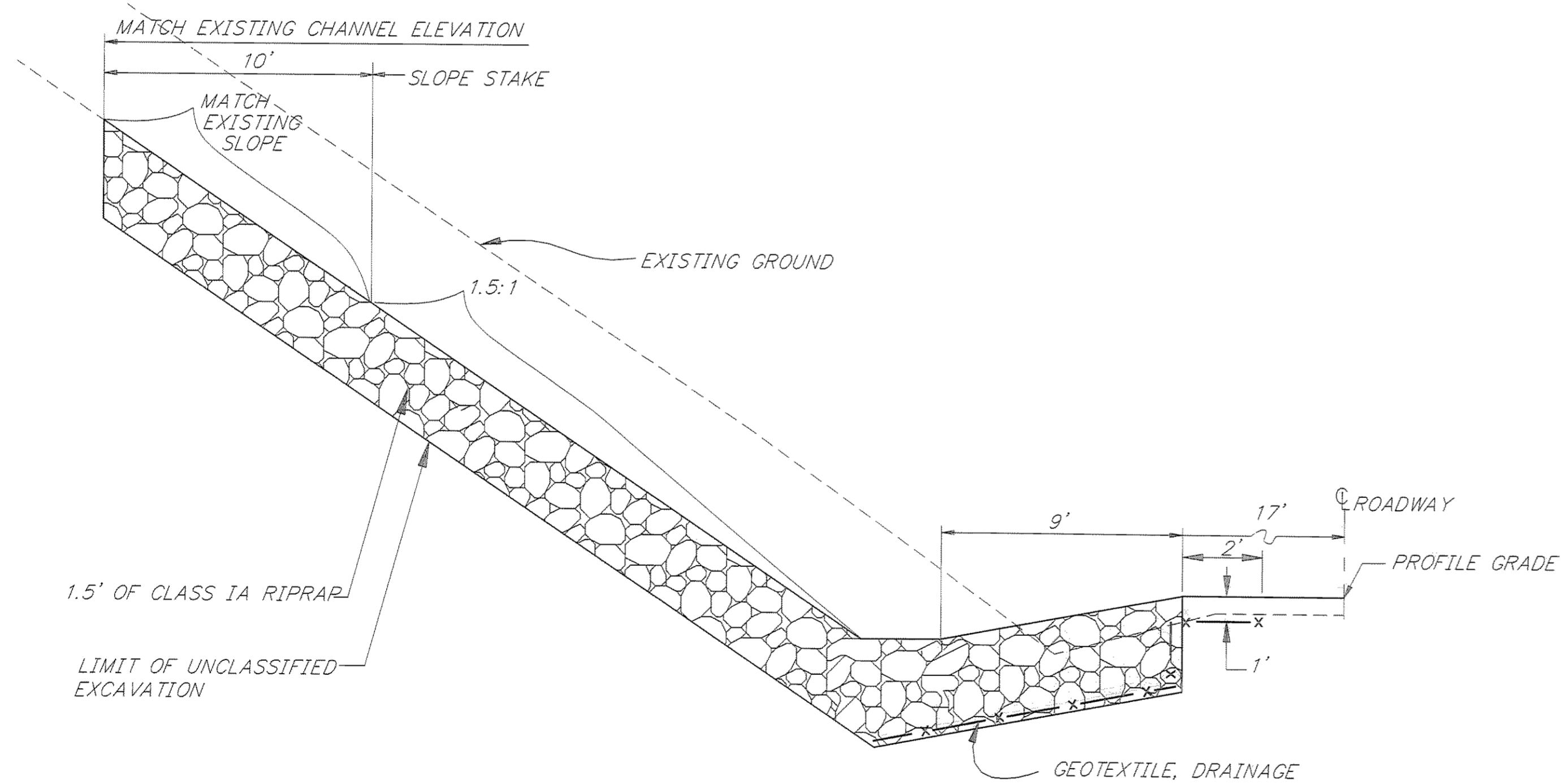
CHANNEL LINING PLAN



SECTION B-B

NOTES

1. AFTER THE AREA BETWEEN "0" 40+00 AND "0" 56+00 LEFT HAS BEEN SLOPE STAKED, THE ENGINEER SHALL BE NOTIFIED AND HE WILL DETERMINE WHICH STREAM CHANNELS WILL BE LINED WITH CLASS IA RIPRAP.



SECTION A-A

PATH: P: \JNU\70134\DR\ -ERO1		
PLOT: P: \-LIB\ -PLOT\ PLOT.F.PCP(20) OR PLOT.F.PCP(40)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU

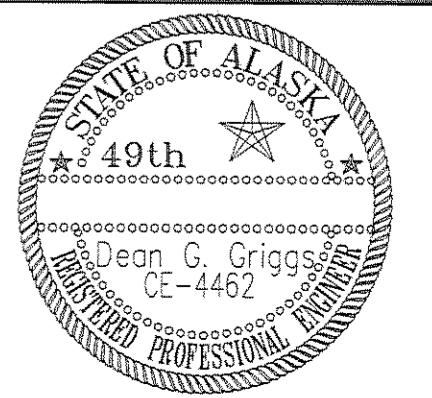
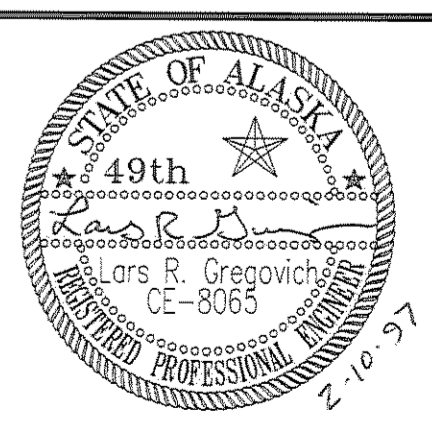
THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ 70134

ALASKA

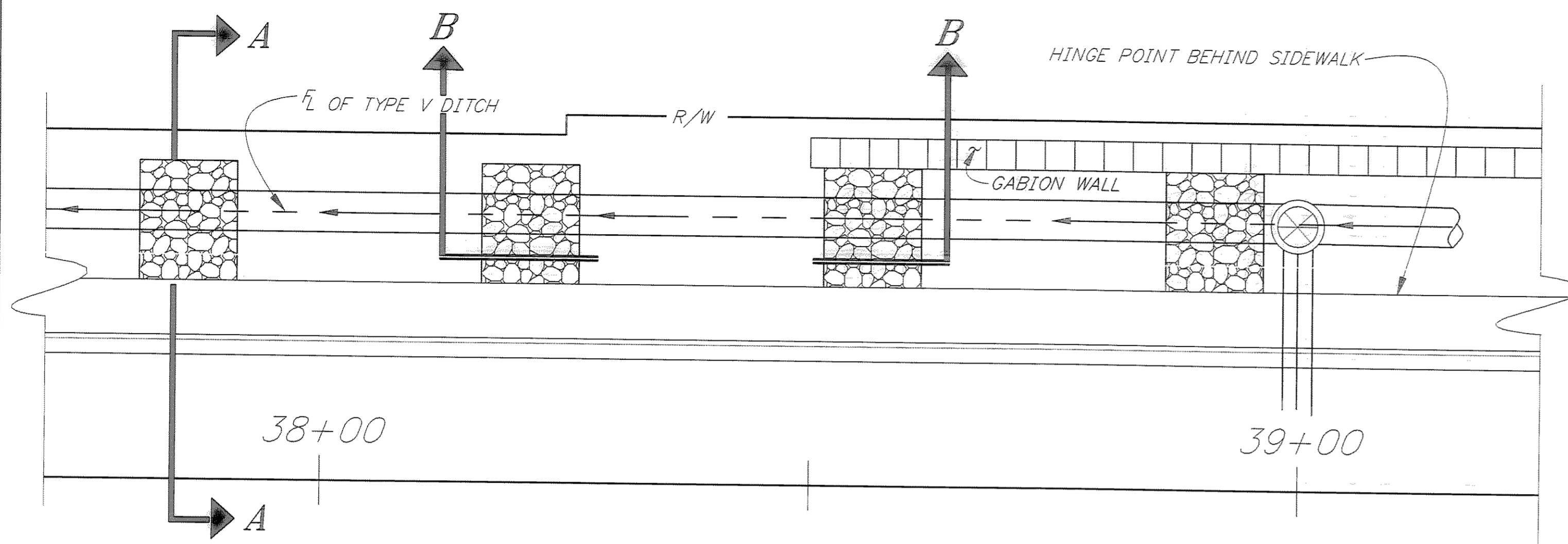
CHANNEL LINING DETAILS

DESIGNED BY: E. CAVAGNARO
 DRAWN BY: W. HICKOK
 CHECKED BY: D. GRIGGS

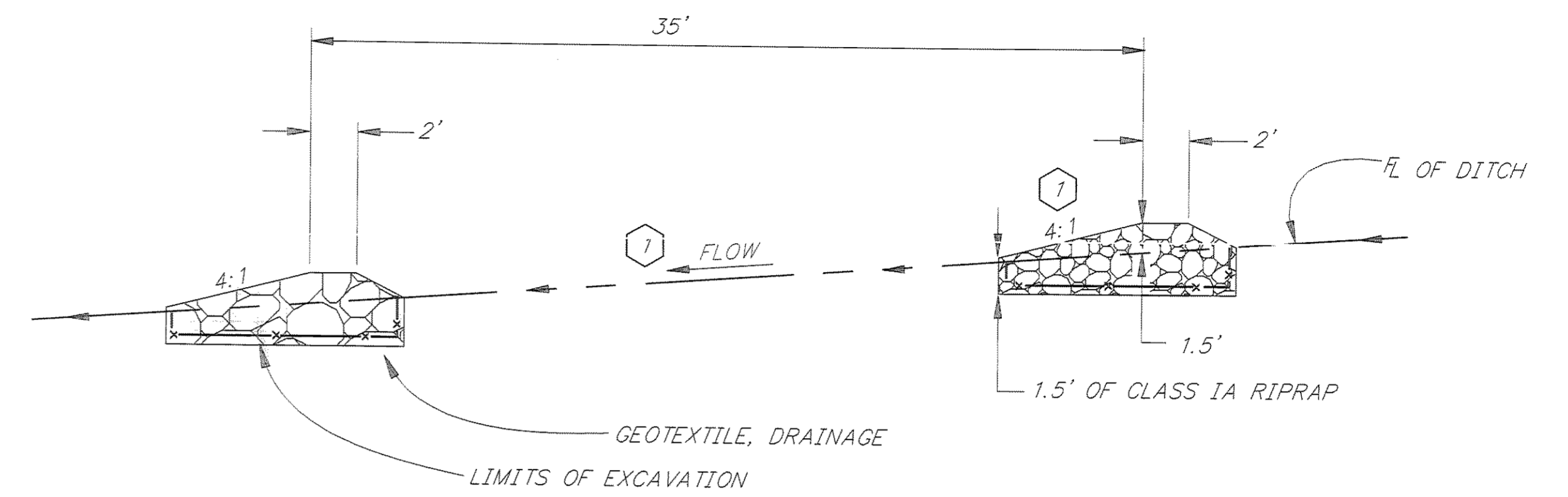
PROJECT NO. 70134
 DATE: FEB. 1997
 SHEET 21 OF 61



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

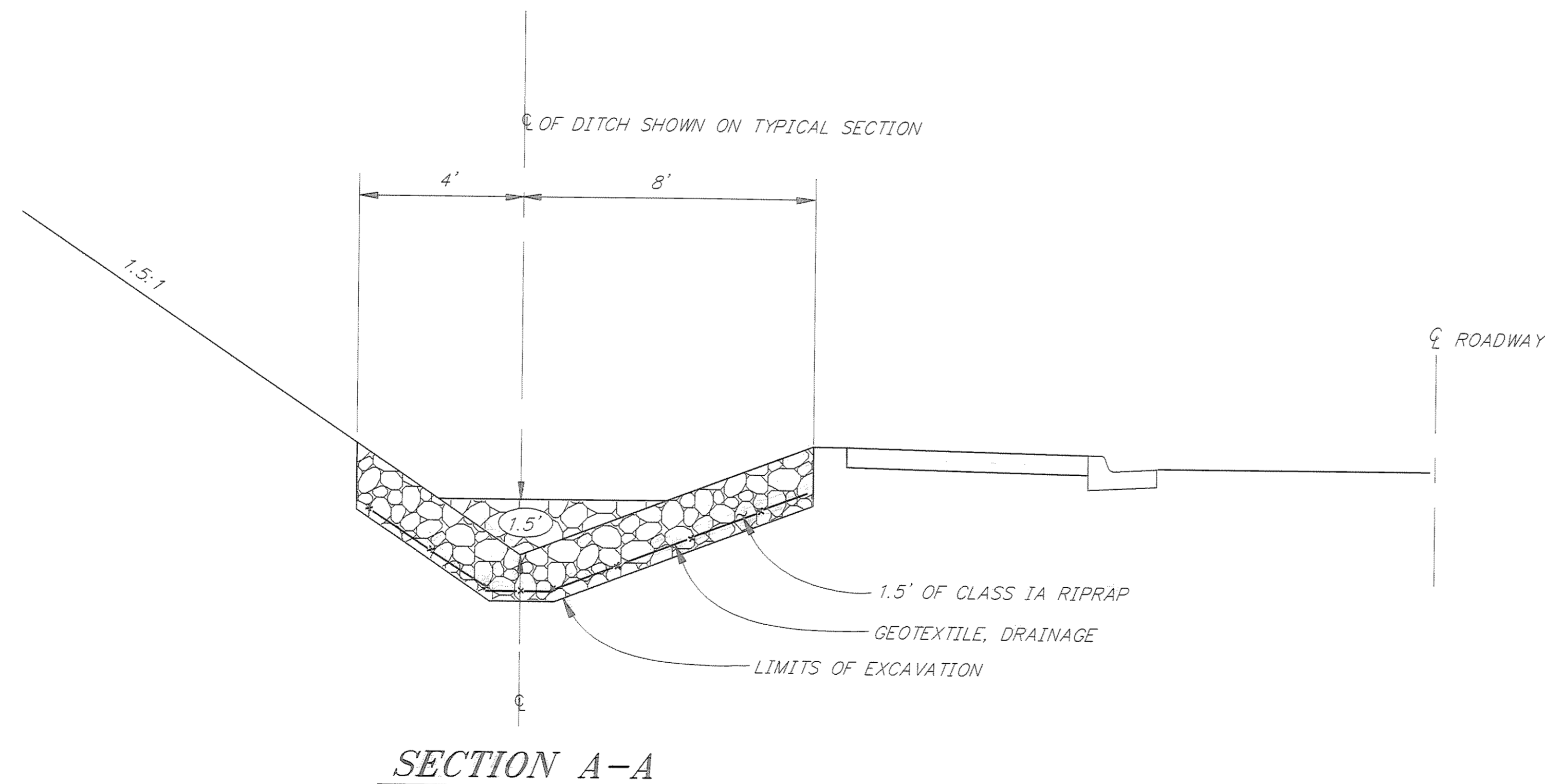


SECTION OF PLAN VIEW SHOWN ON SHEET



SECTION B-B

1 THE FLOW BETWEEN STA. "0" 48+50 & "0" 52+25 IS OPPOSITE THIS DETAIL. THEREFOR THE 4:1 WILL FACE IN THE OPPOSITE DIRECTION SHOWN HERE TOO.



SECTION A-A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\JNU\70134\DR\ -DITCH3		
PLOT: P:\-LIB\ -PLOT\PLOT.F.PCP(10) OR PLOTH.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

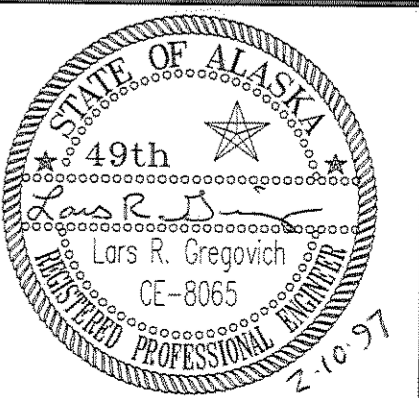
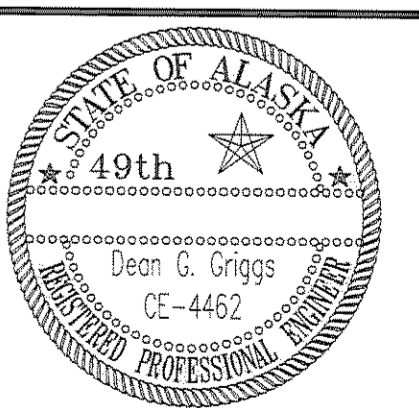
JUNEAU

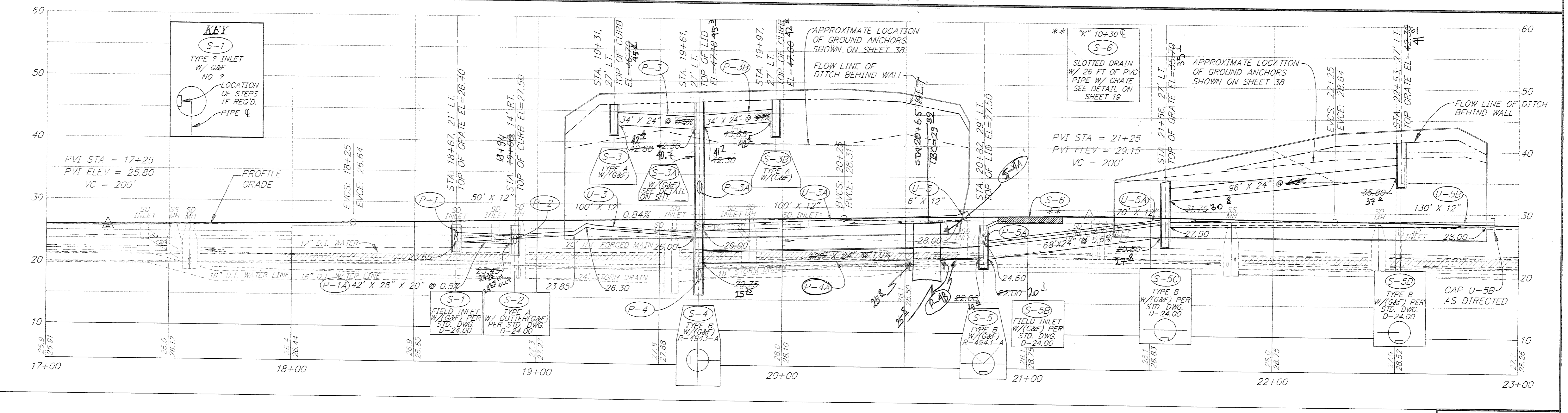
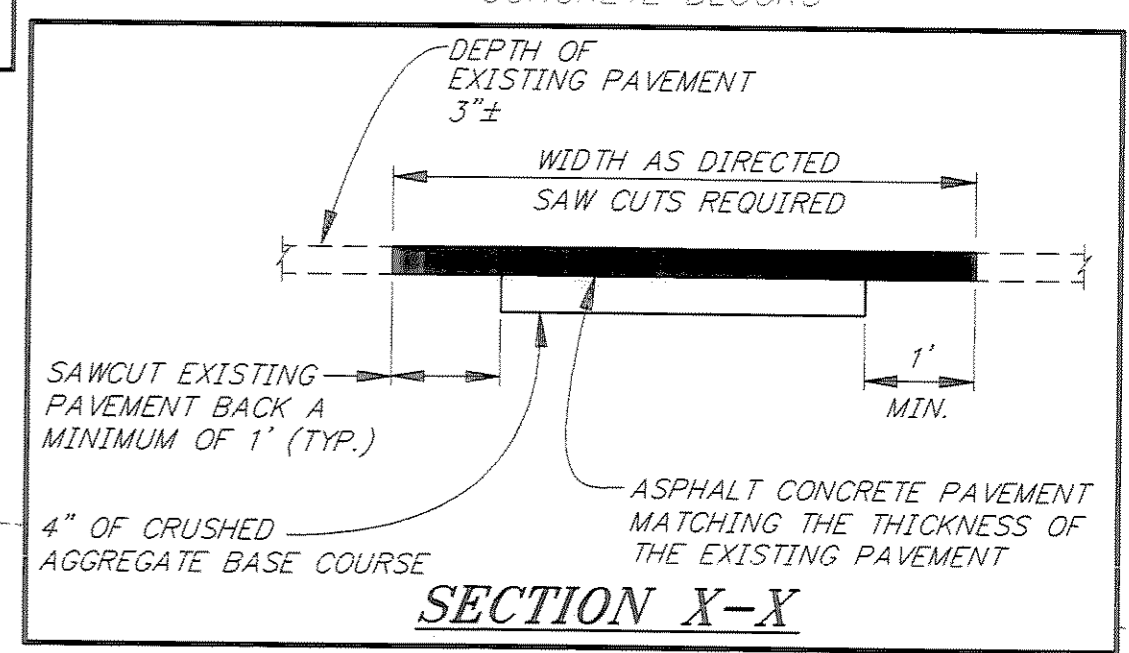
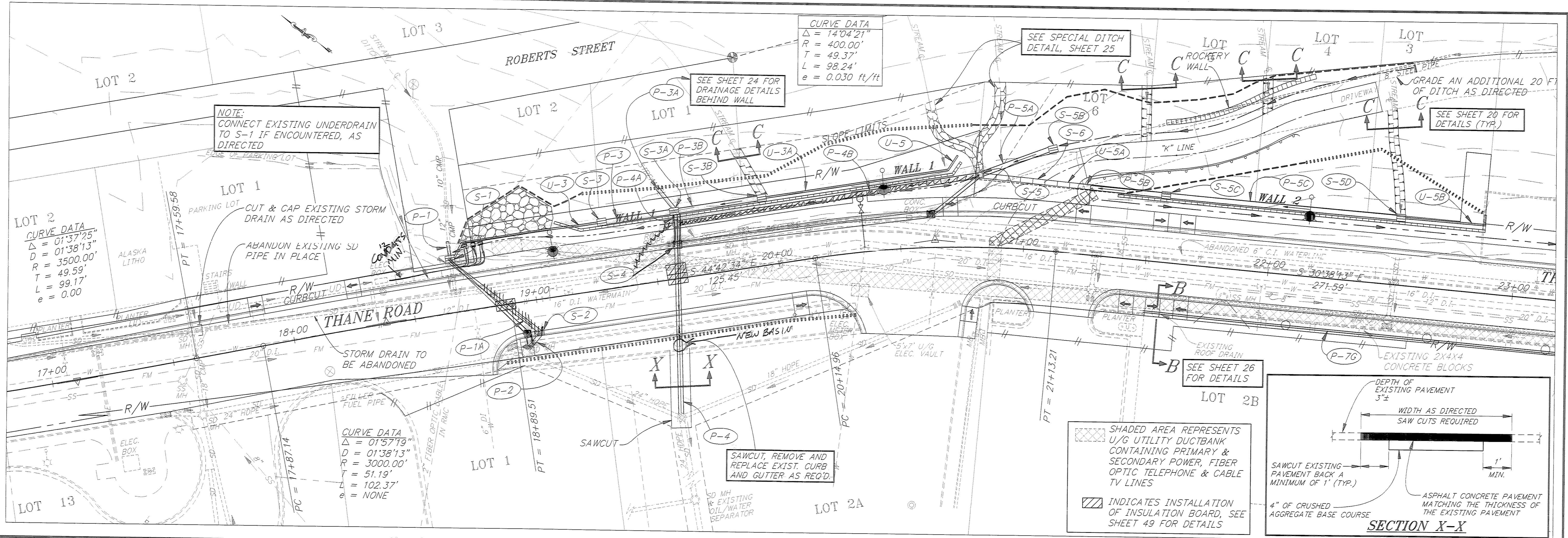
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
DRAINAGE DETAIL
BROAD CRESTED WEIR

ALASKA

DESIGNED BY:
E. CAVAGNARO \ D. GRIGGS
DRAWN BY:
W. HICKOK
CHECKED BY:
L. GREGOVICH

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 22 OF 59





RECORD OF REVISIONS		
DATE	DESCRIPTION OF CHANGE	BY

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

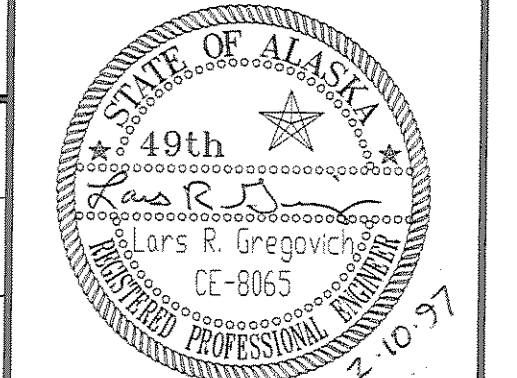
JUNEAU

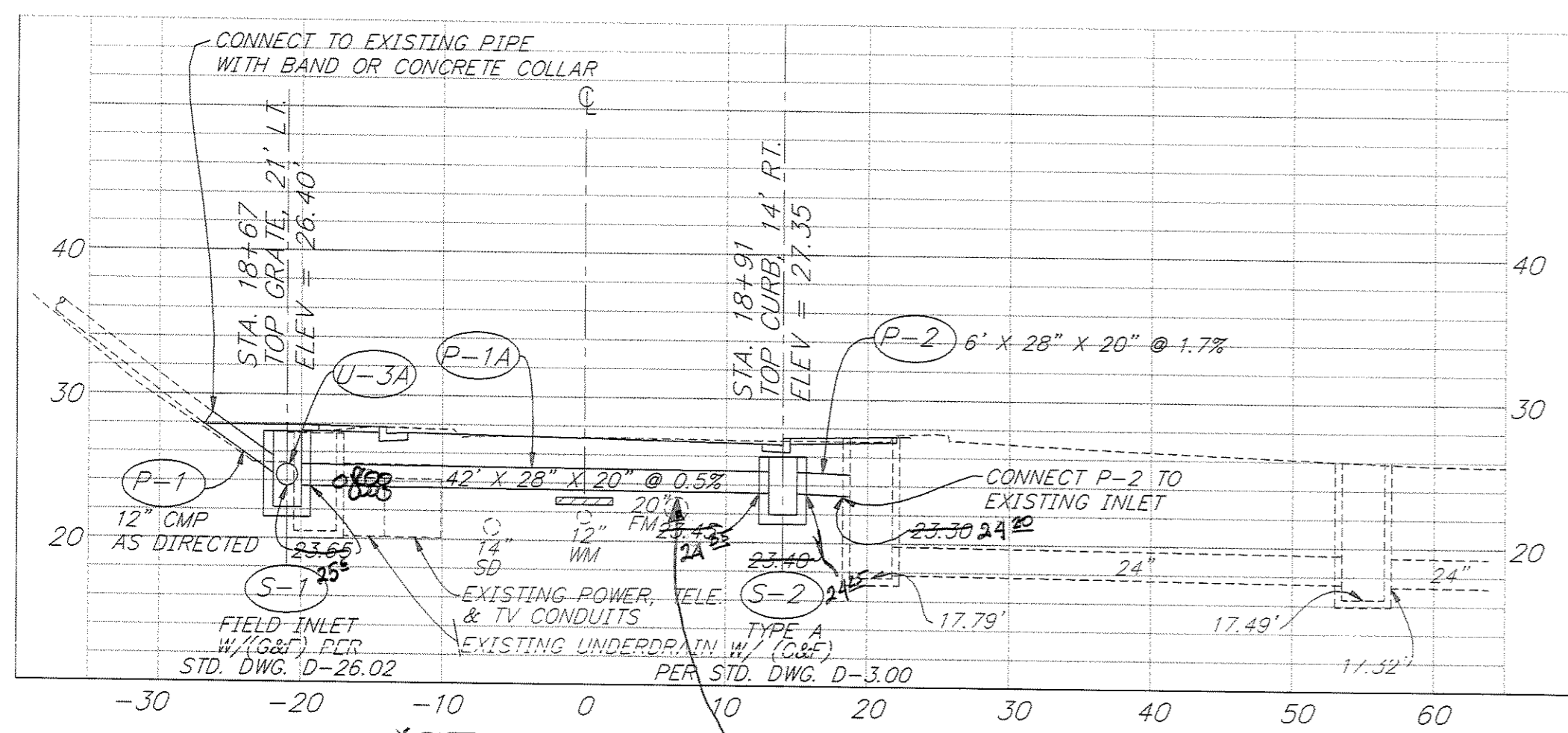
THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134

DRAINAGE PLAN & PROFILE DETAILS
 STA. 17+00 TO STA. 23+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

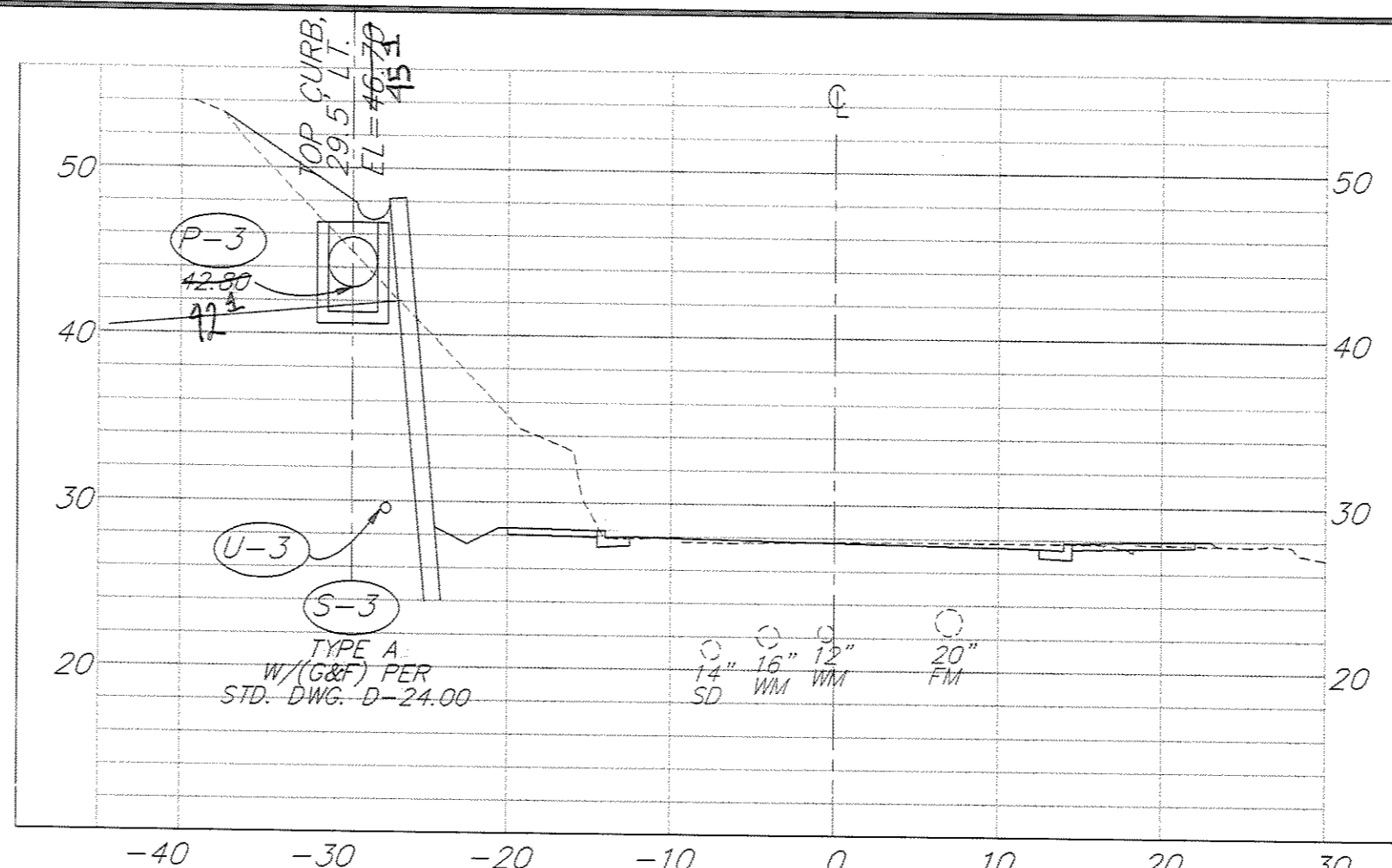
DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 23 OF 59



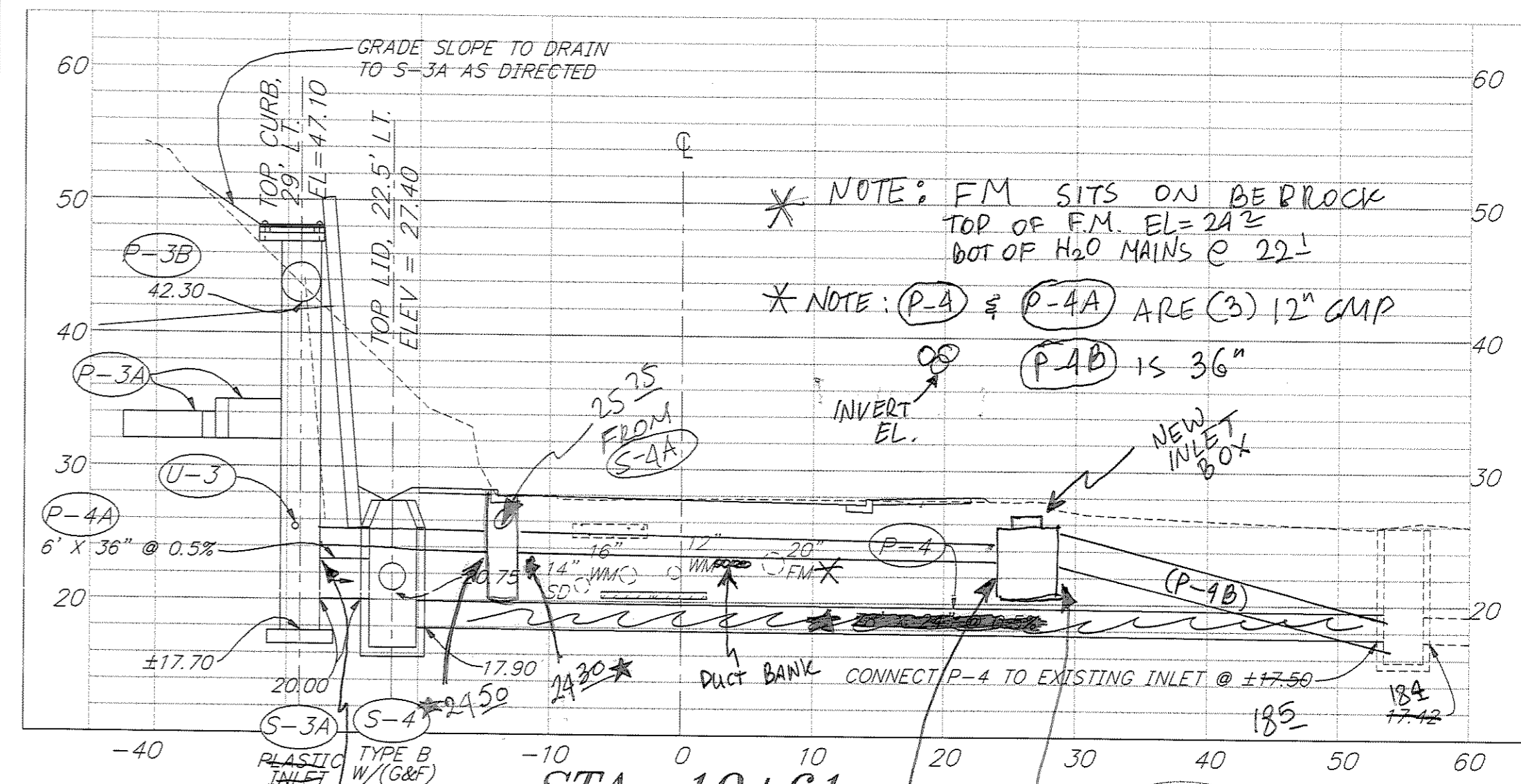


STA. 18+82
TOP FM EL=24.3

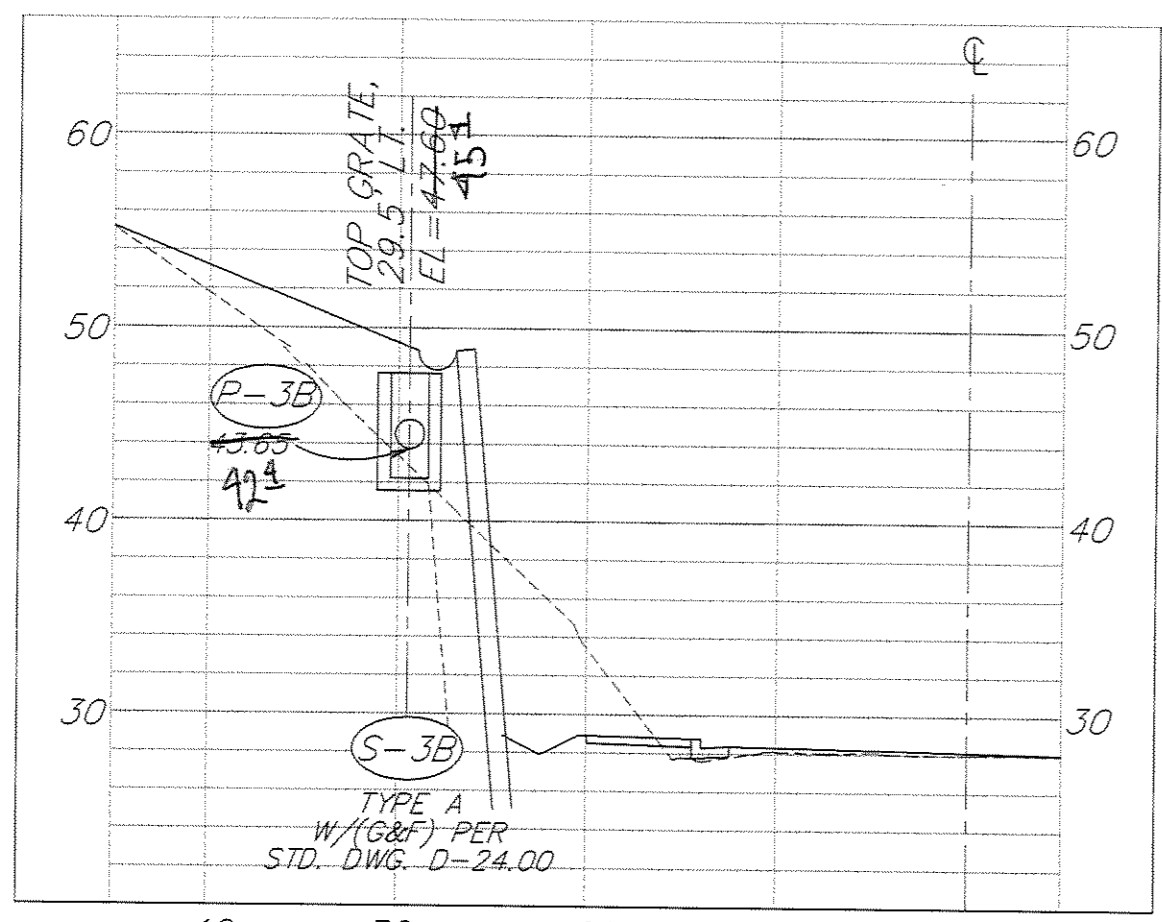
INDICATES INSTALLATION OF INSULATION BOARD. SEE SHEET 49 FOR DETAILS



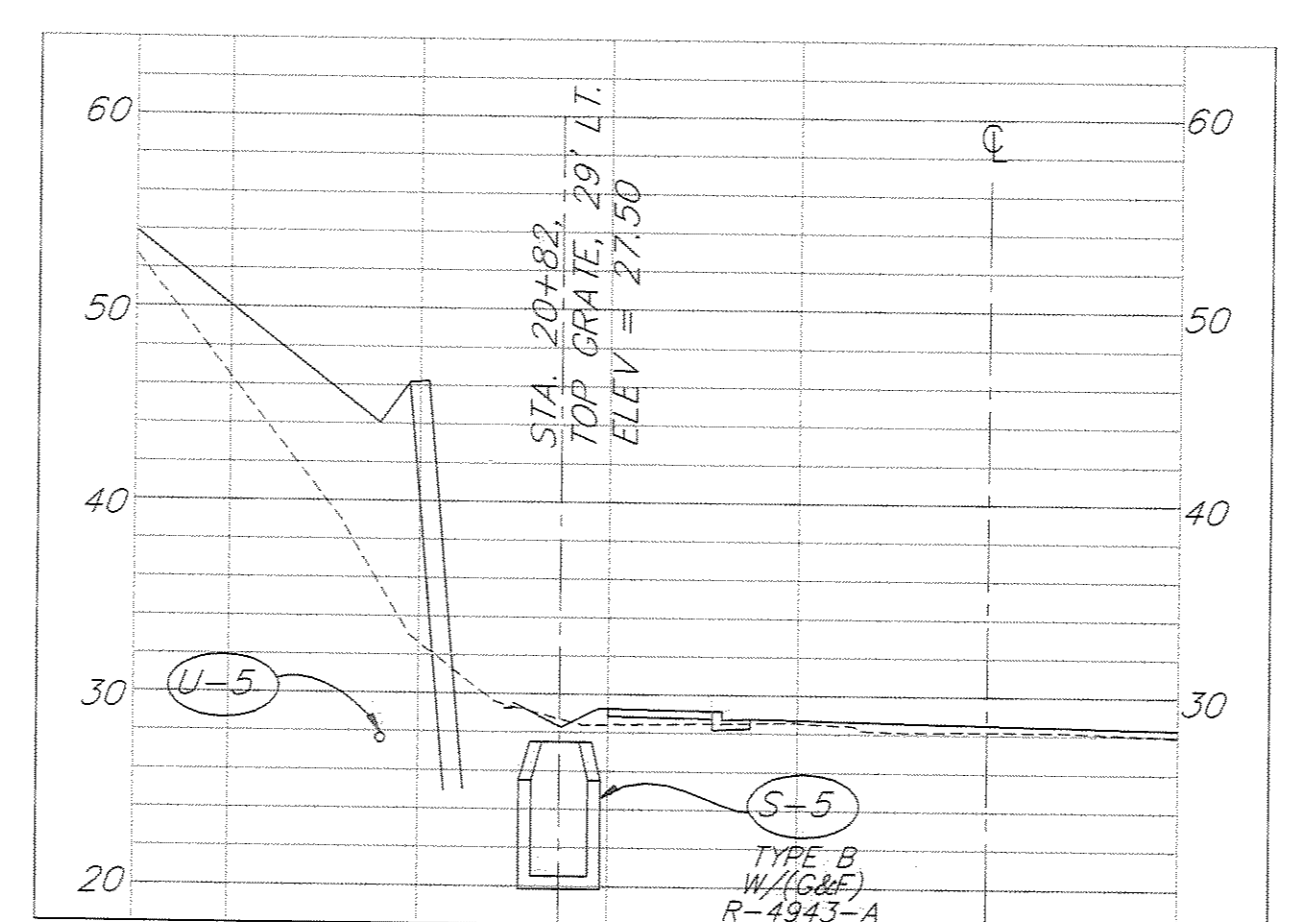
STA. 19+31



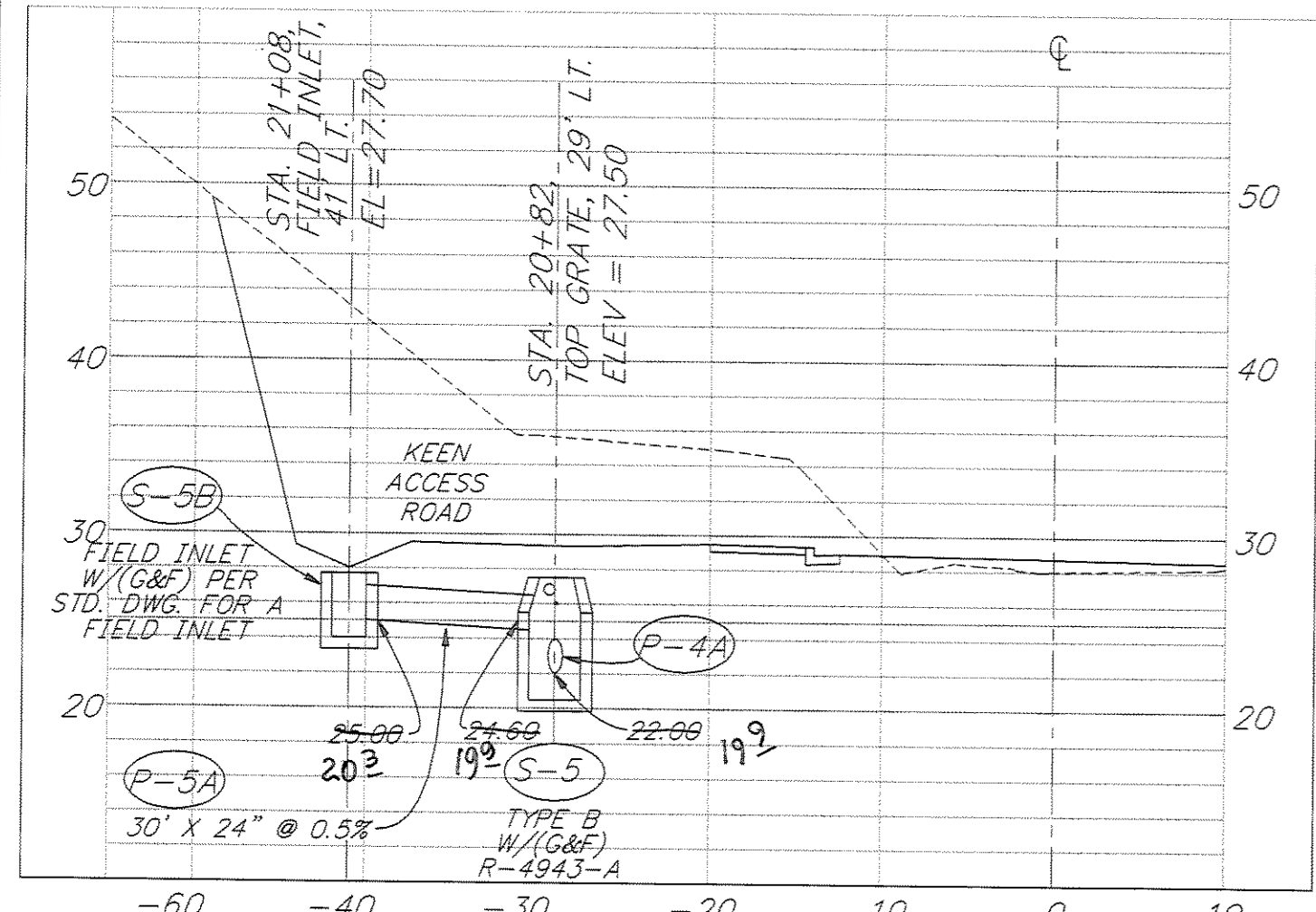
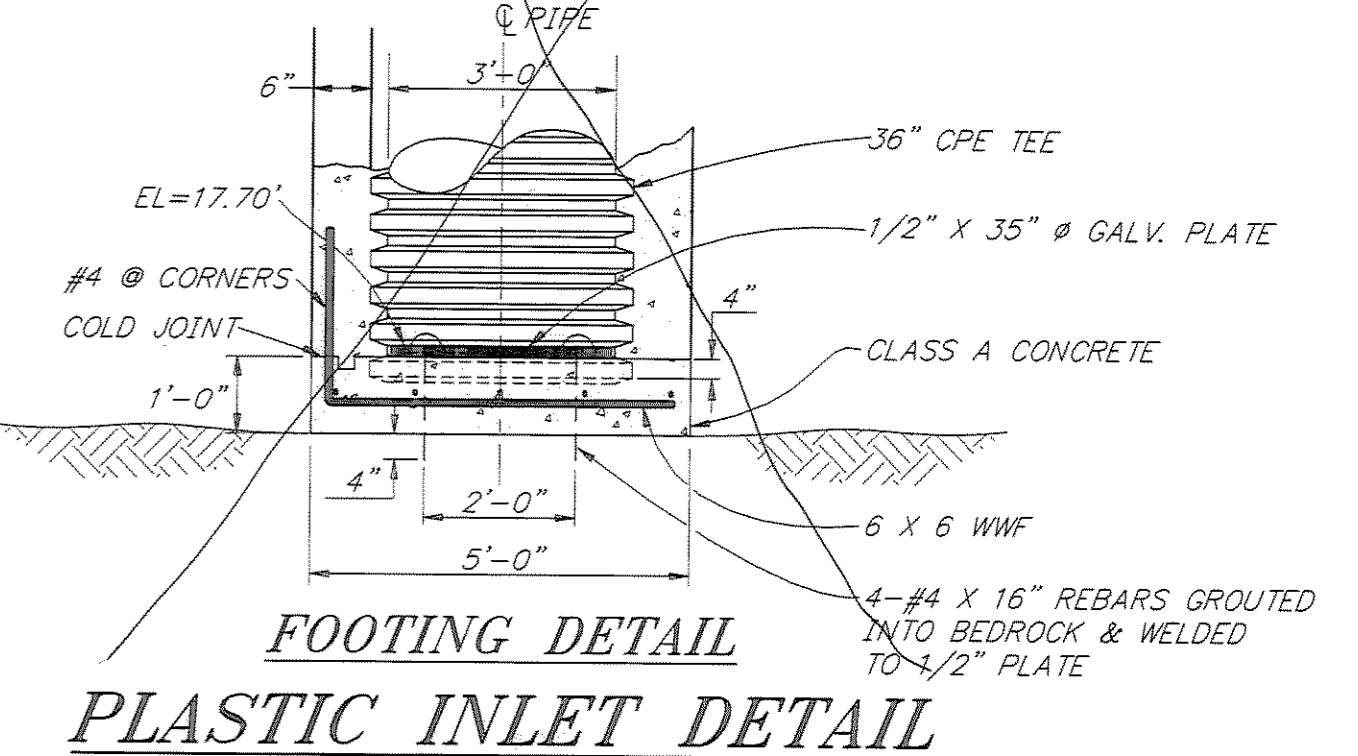
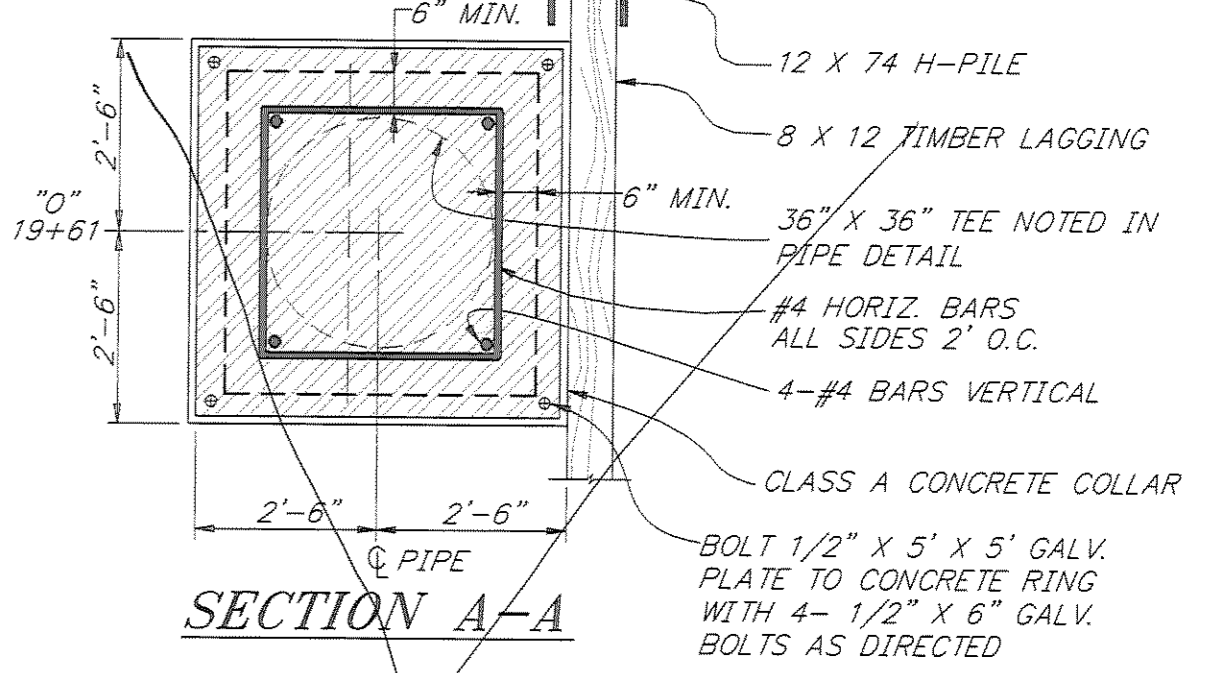
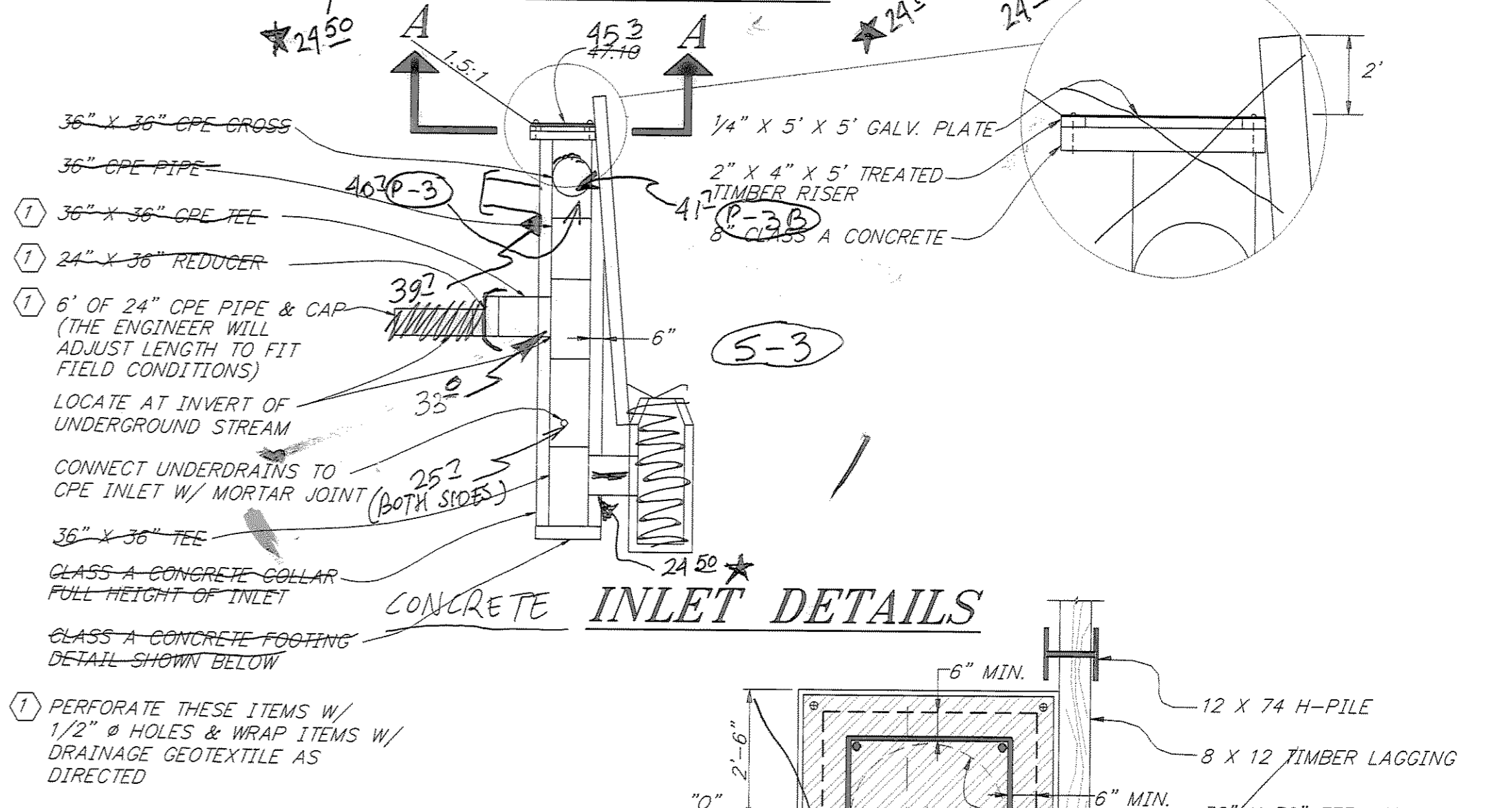
STA. 19+61



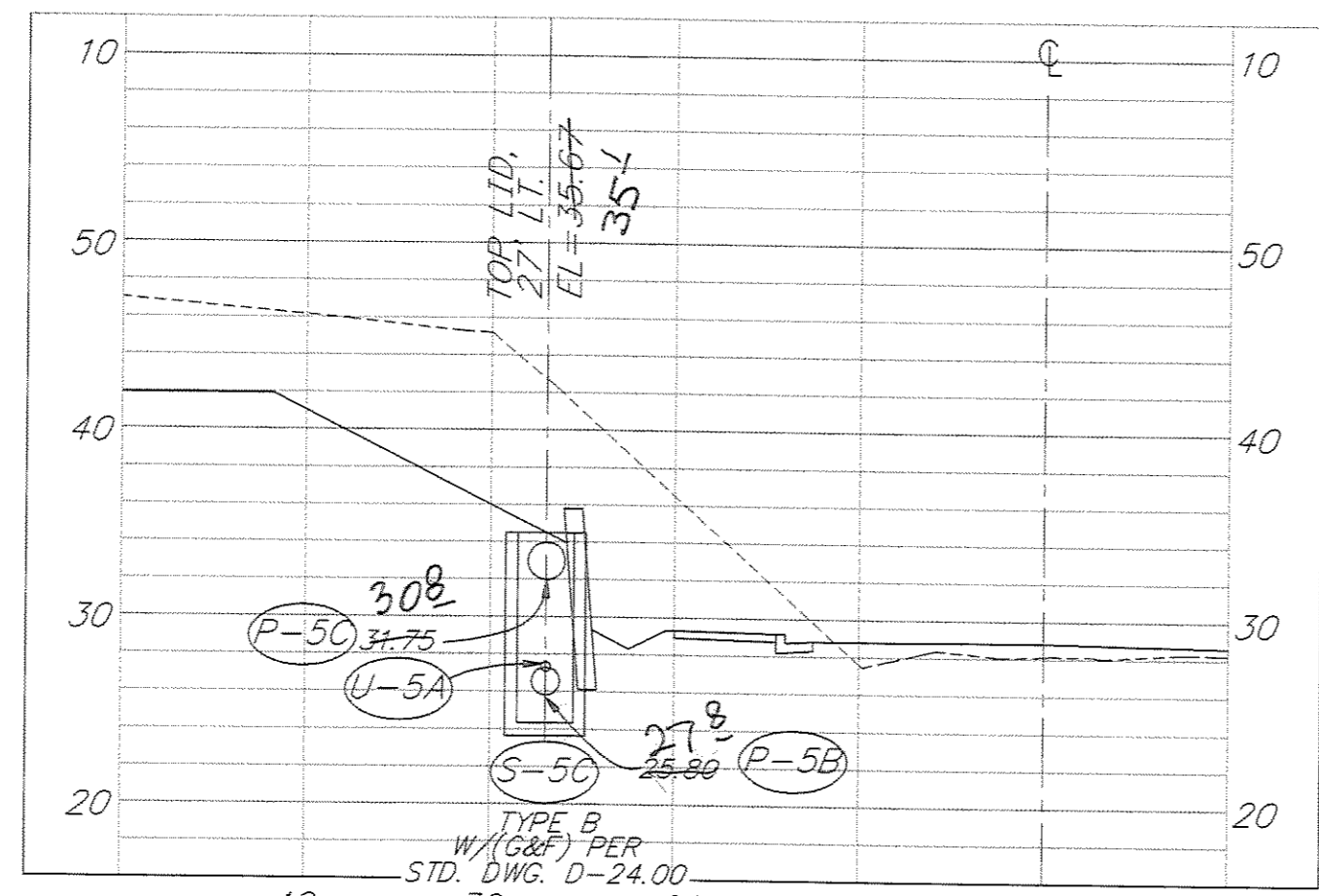
STA. 19+97



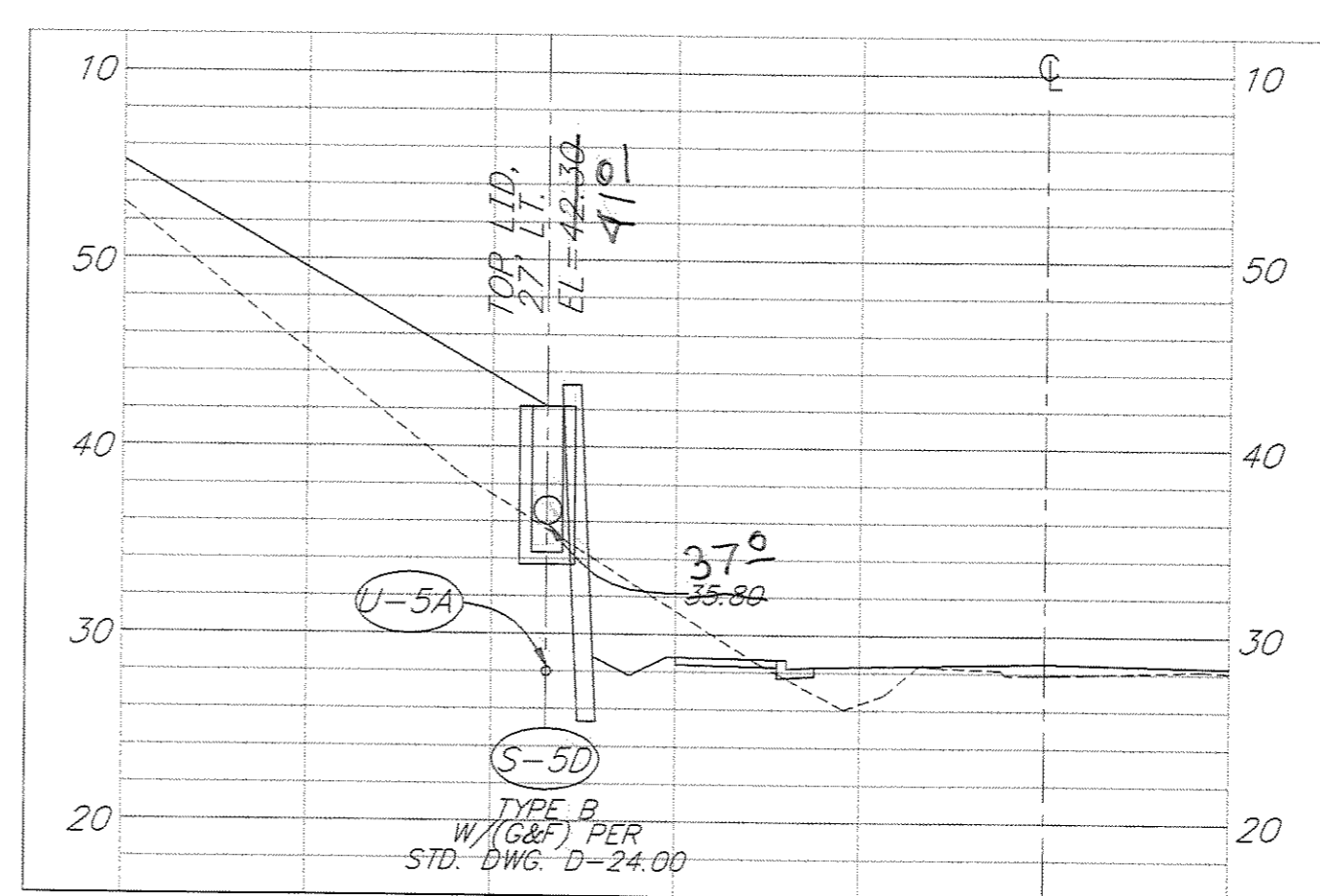
STA. 20+69



STA. 21+00



STA. 21+56



STA. 22+53

PATH: P:\JNU\70134\DR\DR-DRAIN4		
PLOT: P:\-LIB\-PLOT\PLOT.FPCP(10) OR PLOT.FPCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

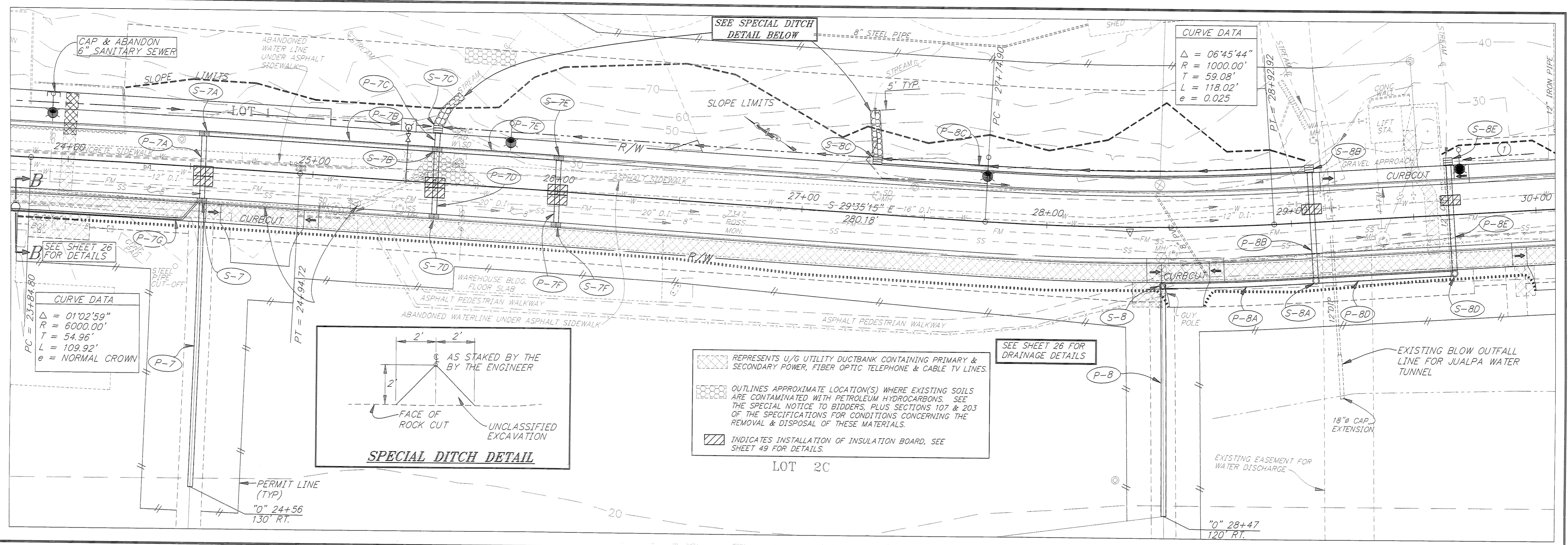
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
CROSS DRAINAGE DETAILS
STA. 17+00 TO STA. 23+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

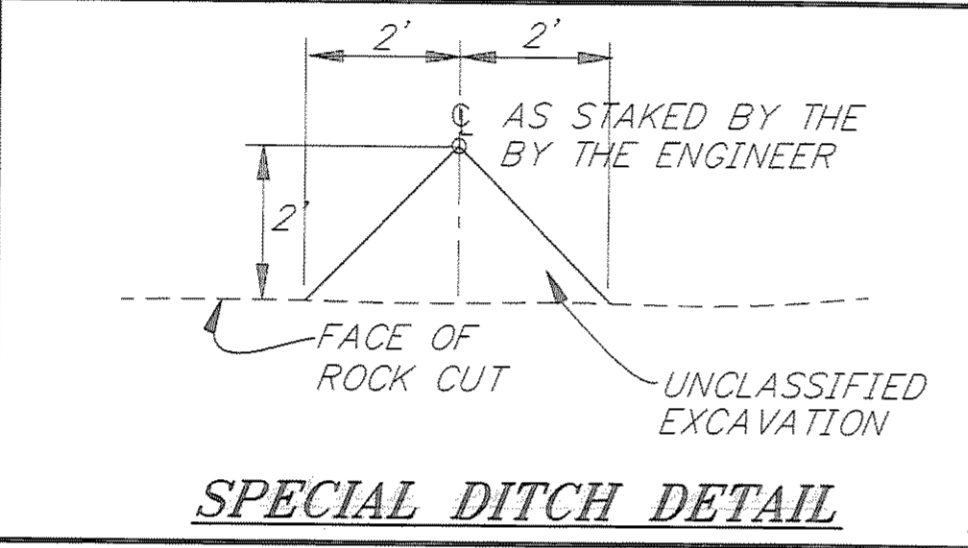
ALASKA	DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
	DRAWN BY: K. SNYDER	DATE: FEB. 1997
	CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 24 OF 59





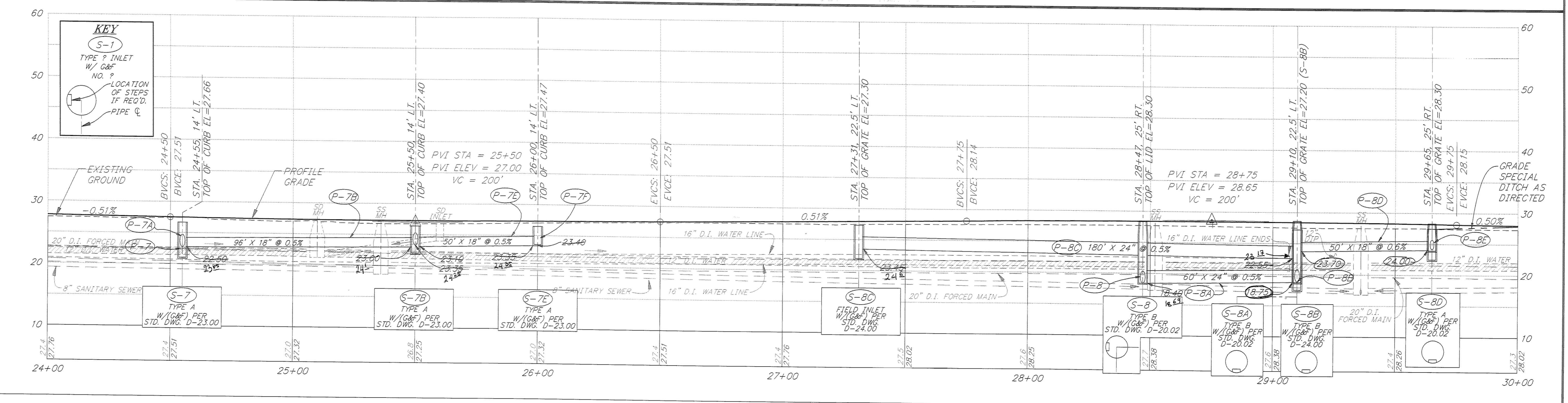
CURVE DATA
 $\Delta = 06'45'44''$
 $R = 1000.00'$
 $T = 59.08'$
 $L = 118.02'$
 $e = 0.025$

CURVE DATA
 $\Delta = 01'02'59''$
 $R = 6000.00'$
 $T = 54.96'$
 $L = 109.92'$
 $e = \text{NORMAL CROWN}$



- REPRESENTS U/G UTILITY DUCTBANK CONTAINING PRIMARY & SECONDARY POWER, FIBER OPTIC TELEPHONE & CABLE TV LINES.
- OUTLINES APPROXIMATE LOCATION(S) WHERE EXISTING SOILS ARE CONTAMINATED WITH PETROLEUM HYDROCARBONS. SEE THE SPECIAL NOTICE TO BIDDERS, PLUS SECTIONS 107 & 203 OF THE SPECIFICATIONS FOR CONDITIONS CONCERNING THE REMOVAL & DISPOSAL OF THESE MATERIALS.
- INDICATES INSTALLATION OF INSULATION BOARD, SEE SHEET 49 FOR DETAILS.

LOT 20



KEY
 S-1
 TYPE ? INLET
 W/ G&F
 NO. ?
 LOCATION OF STEPS IF REQ'D.
 PIPE Ø

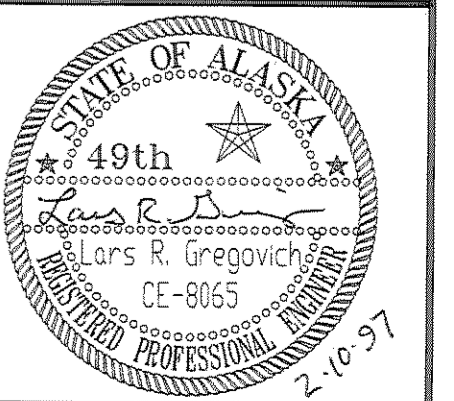
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

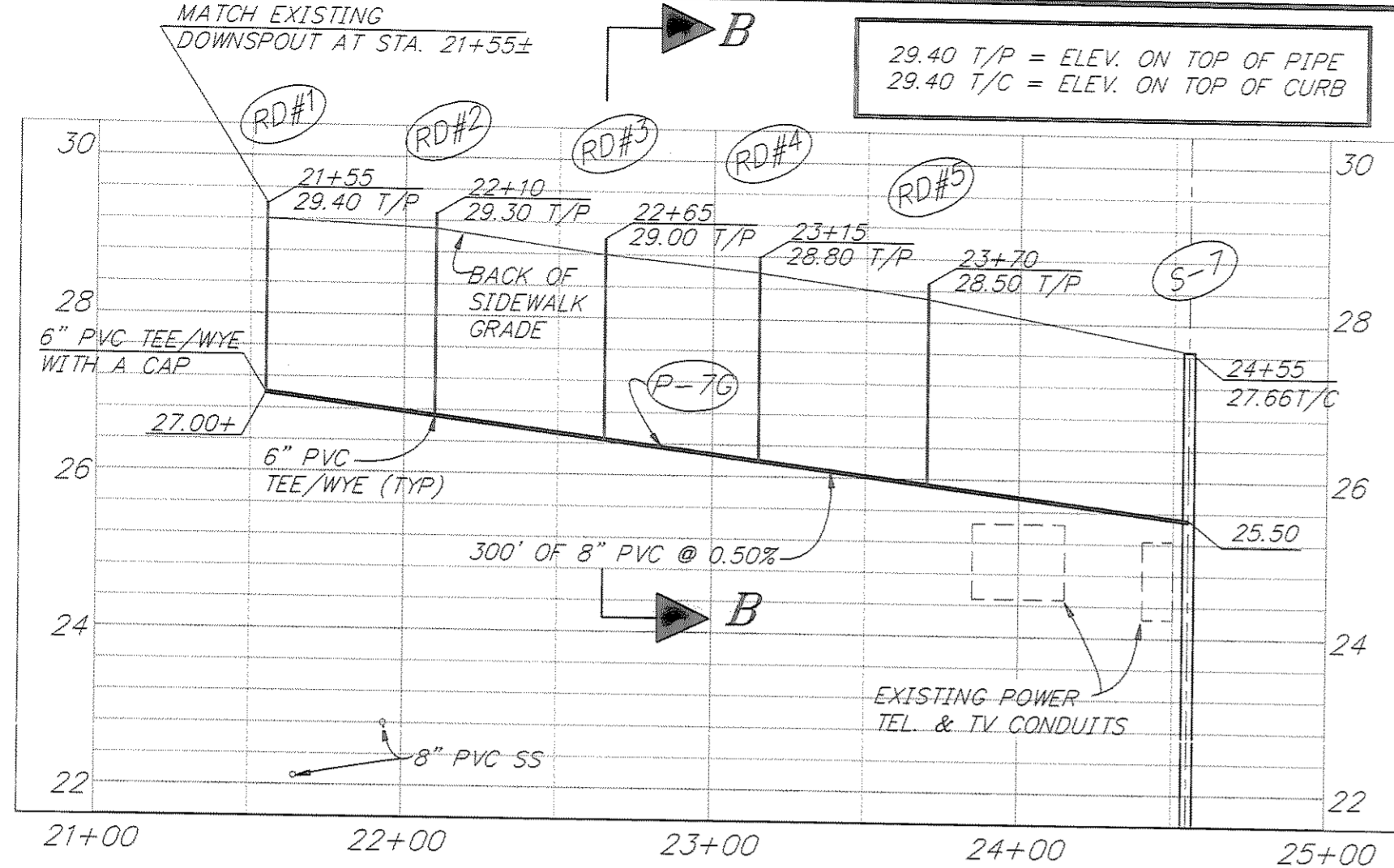
RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

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

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN & PROFILE DETAILS
 STA. 24+00 TO STA. 30+00

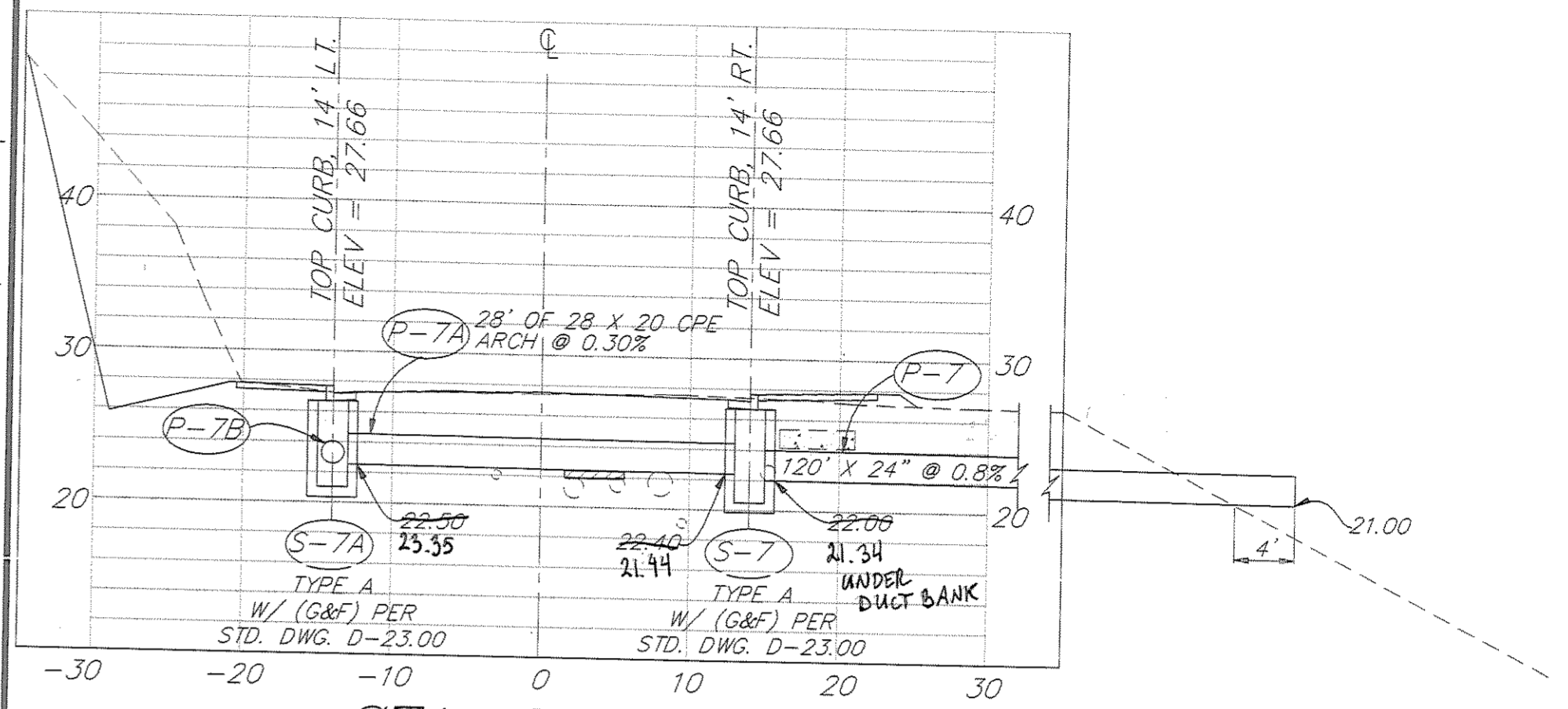
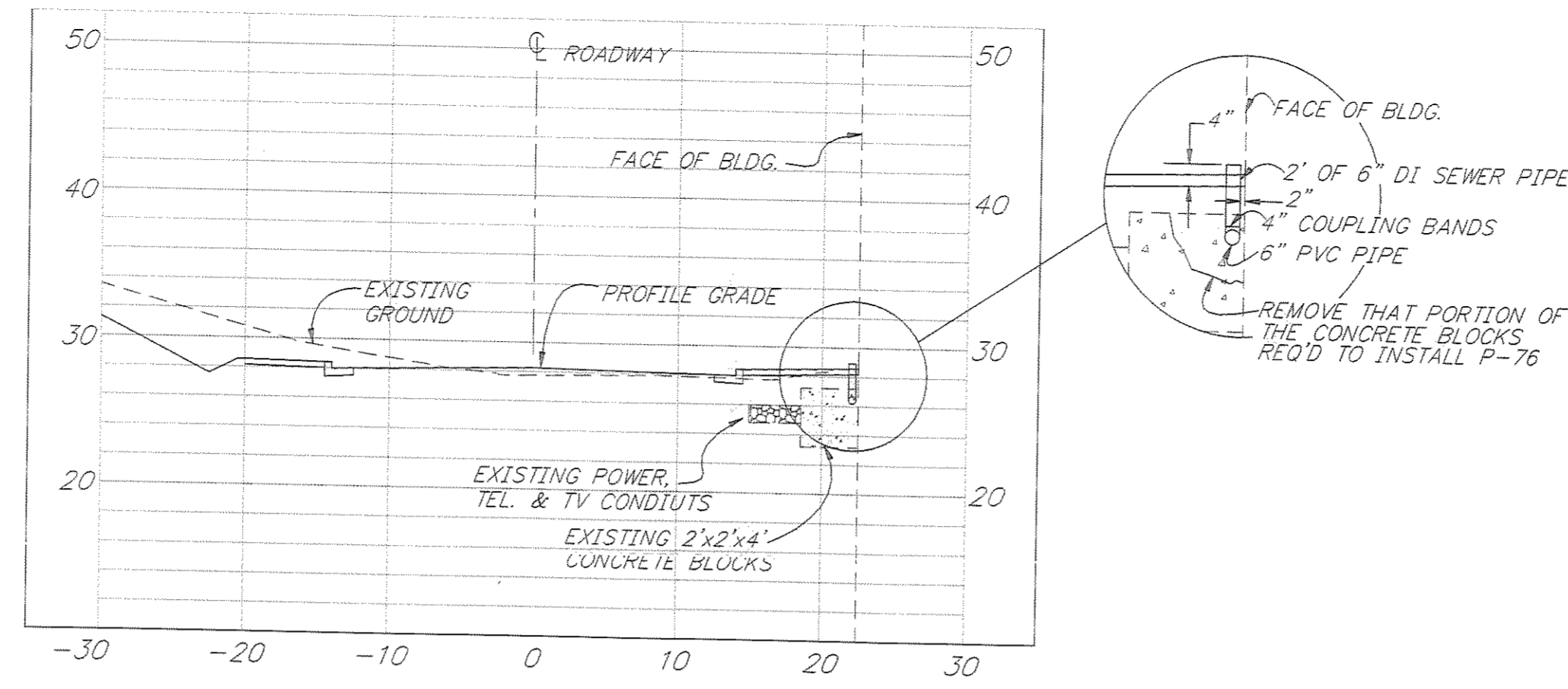
DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 25 OF 59



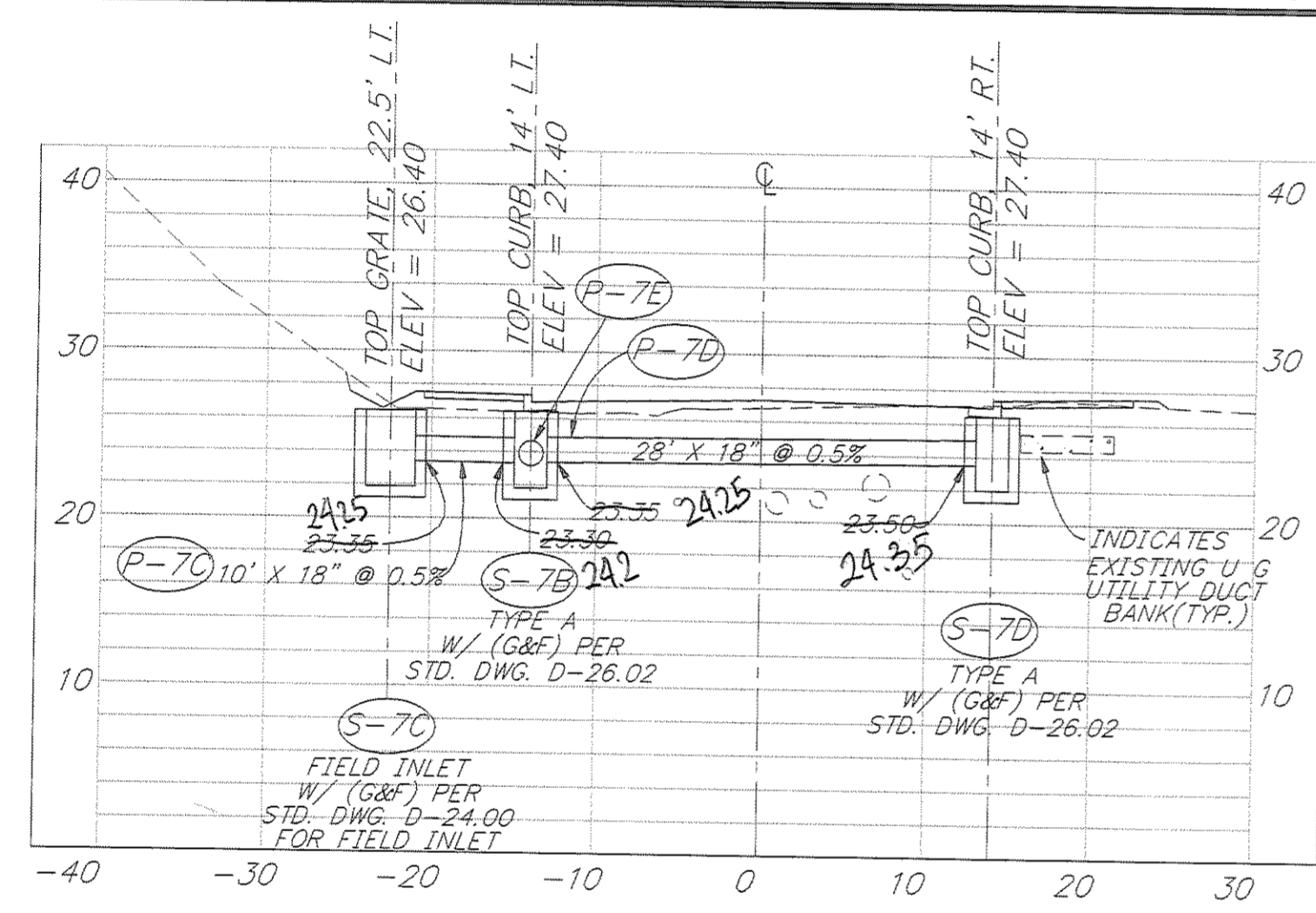


**ROOF DRAIN DETAIL
STA. 21+50 TO 24+55**

SECTION B-B

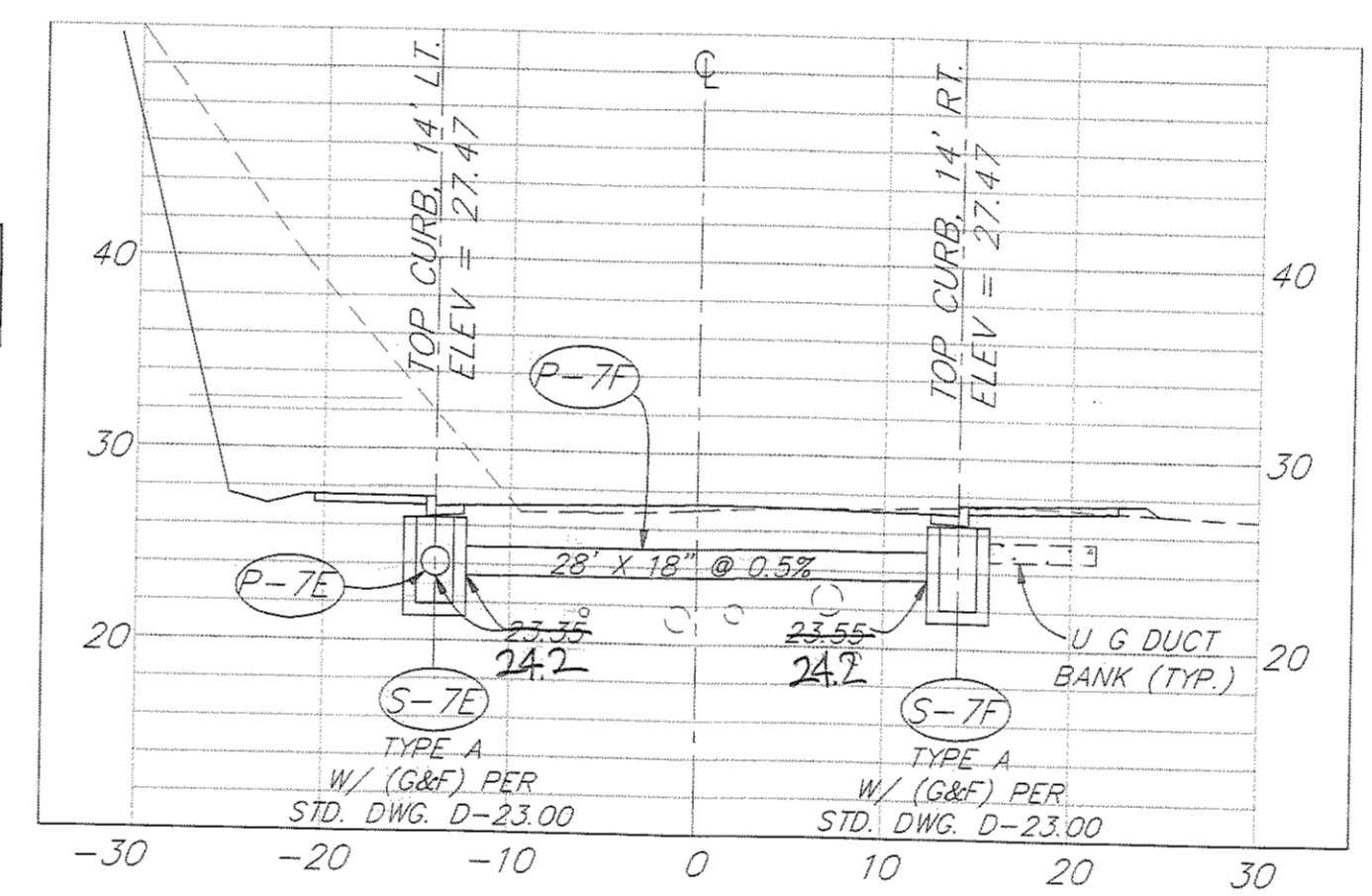


STA. 24+55

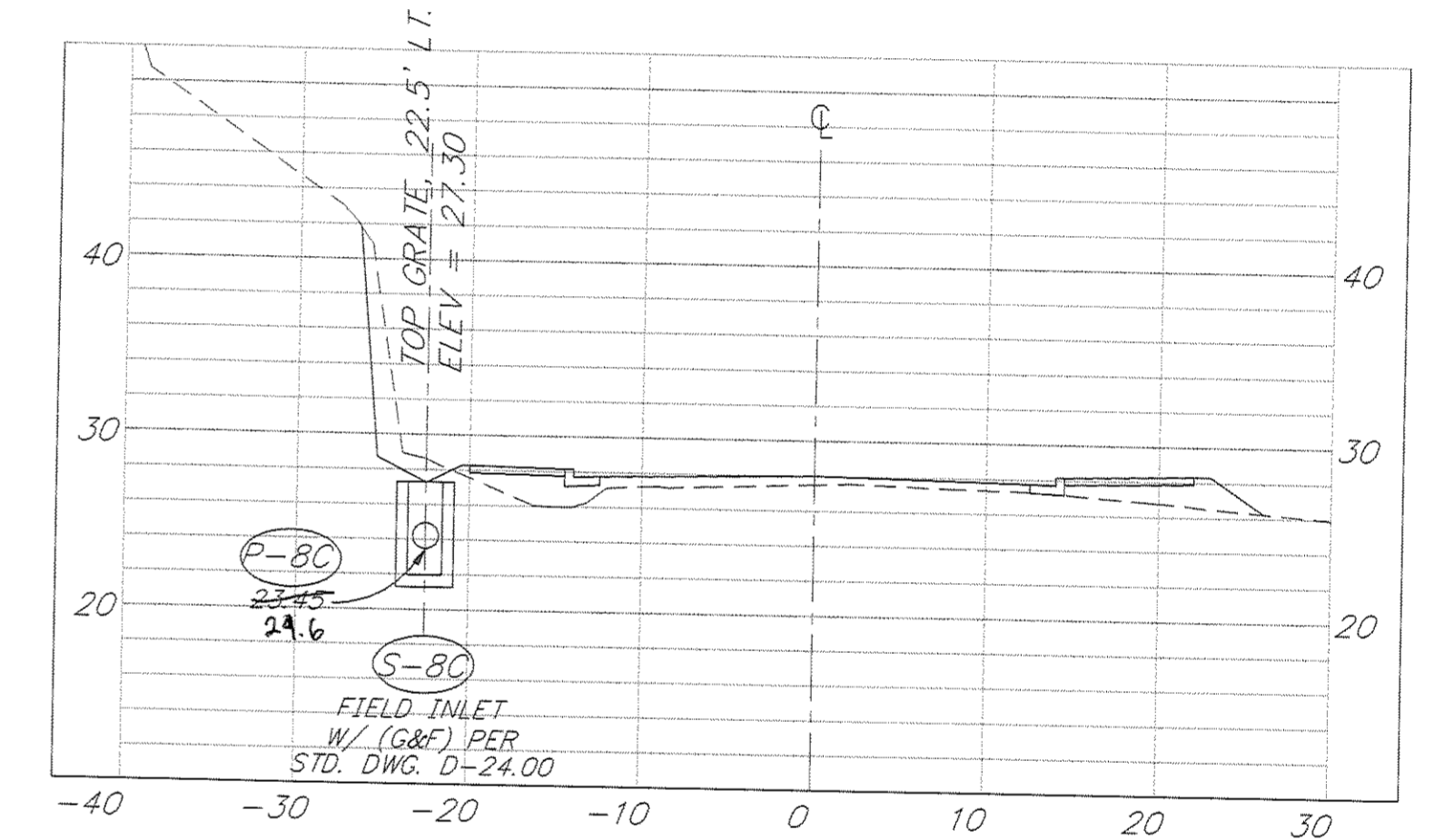


STA. 25+50

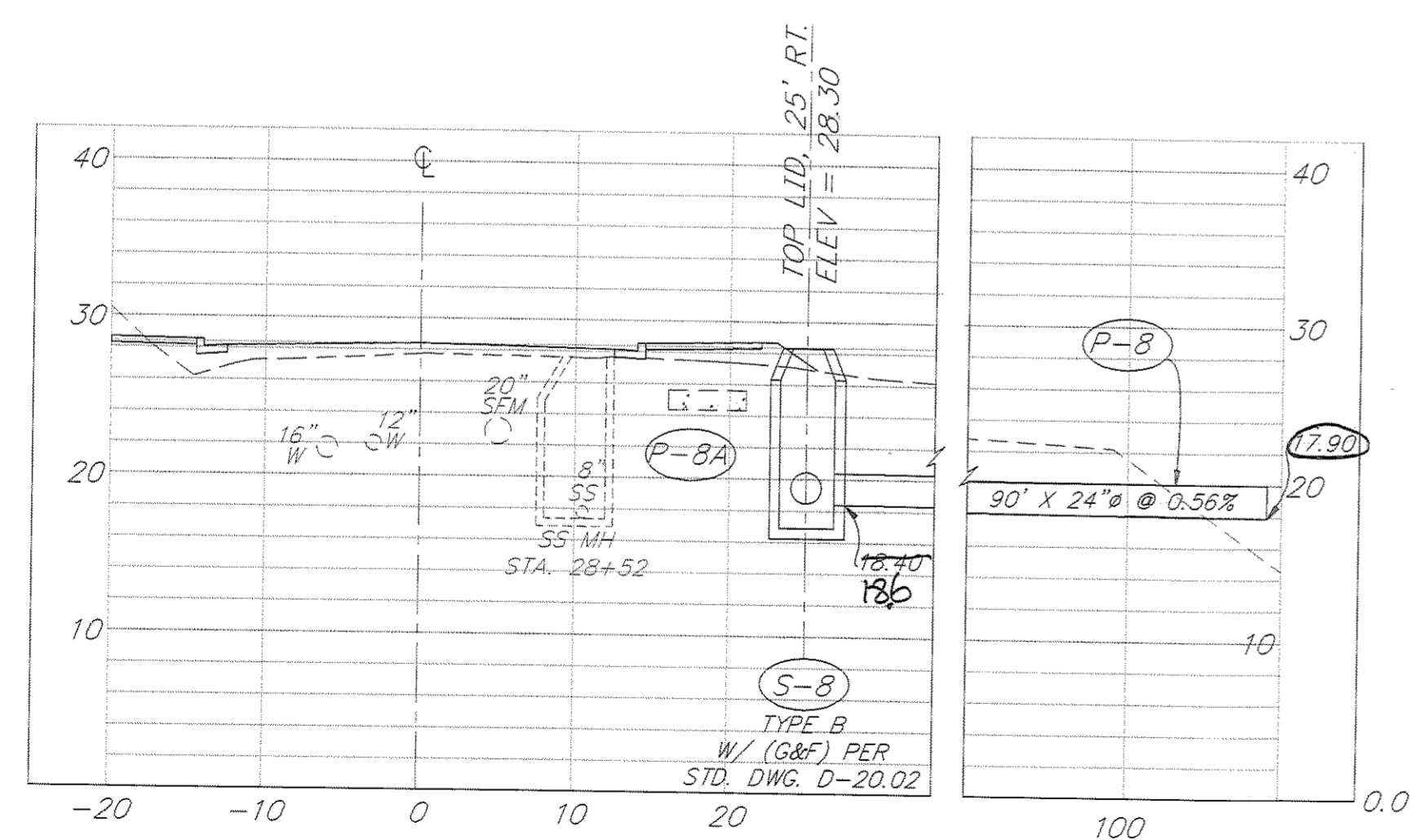
INDICATES INSTALLATION OF INSULATION BOARD. SEE SHEET 49 FOR DETAILS



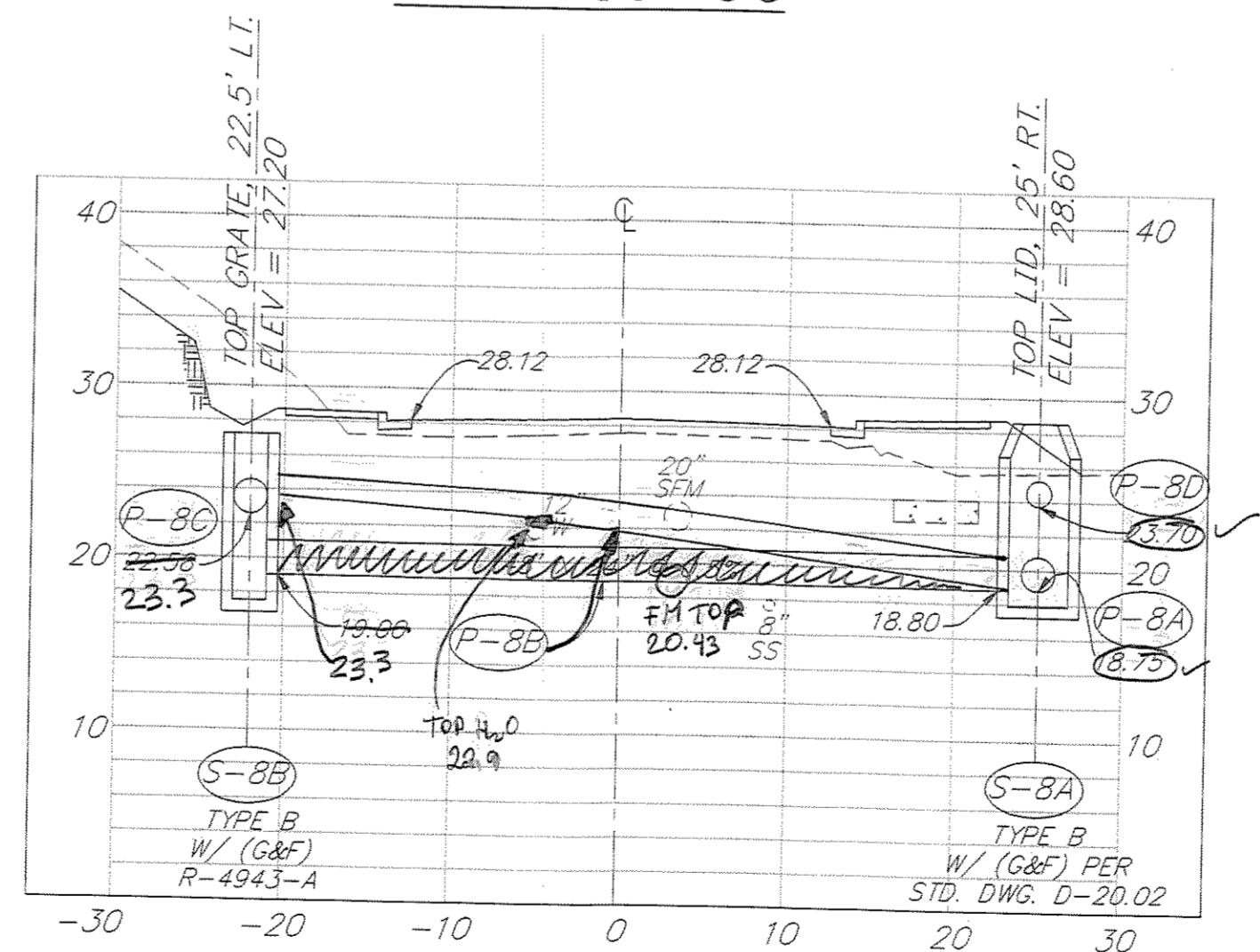
STA. 26+00



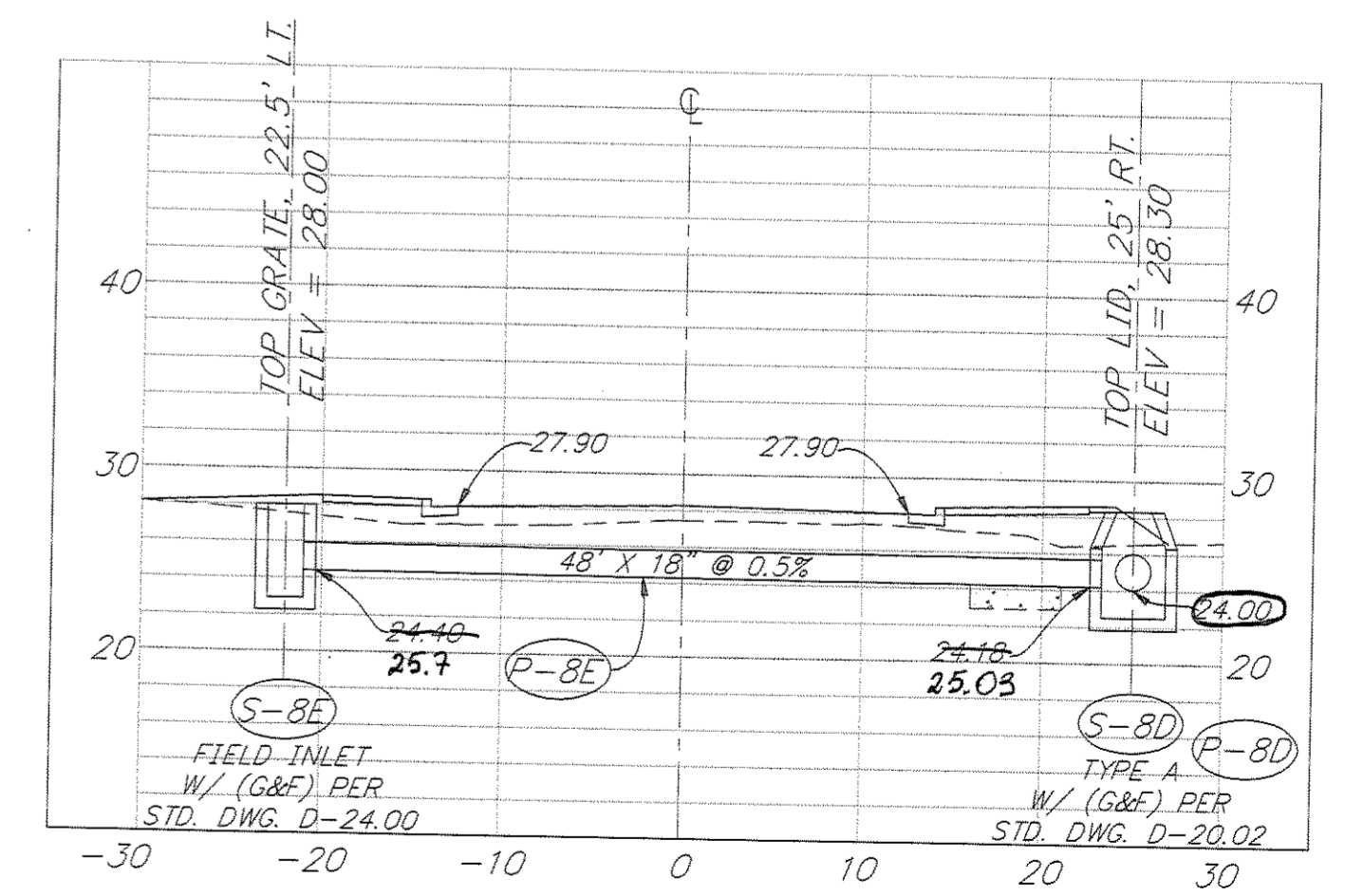
STA. 27+31



STA. 28+47



STA. 29+10



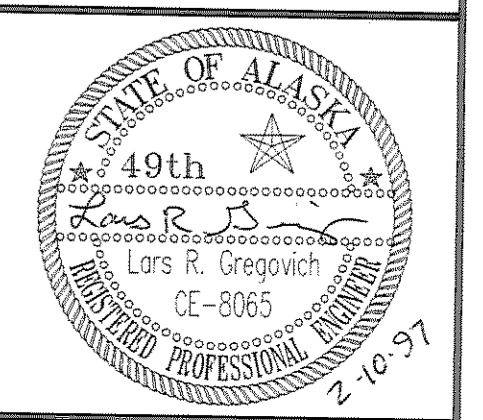
STA. 29+65

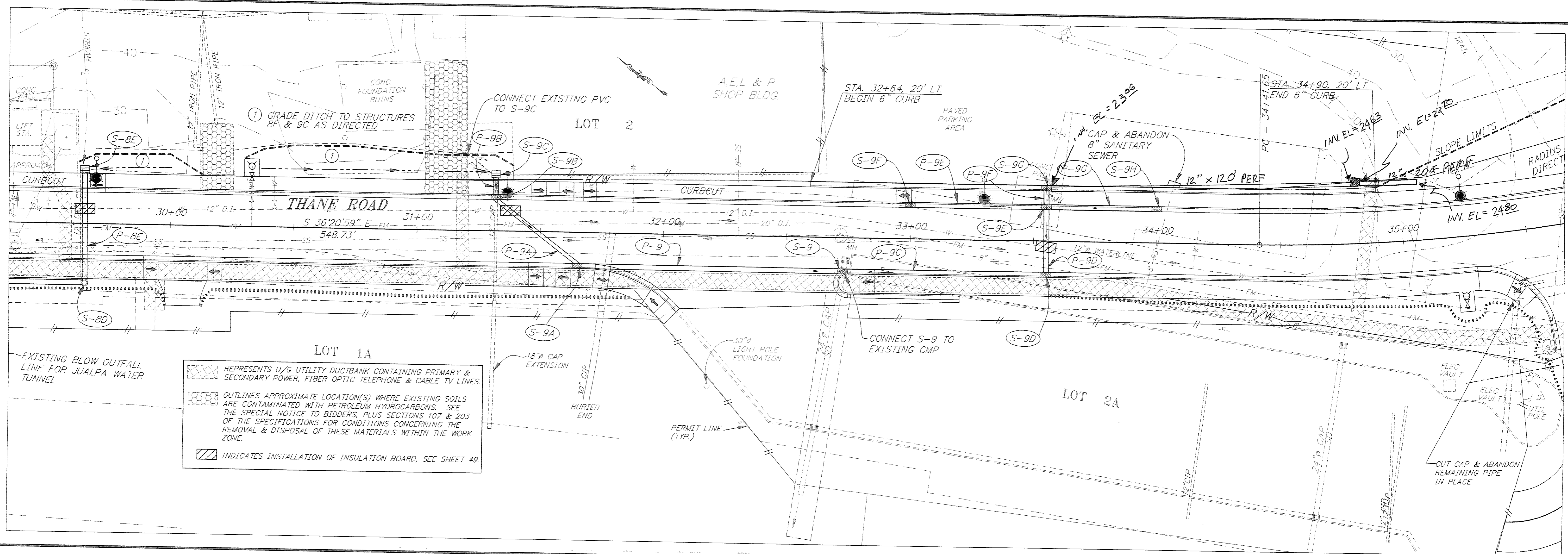
RECORD OF REVISIONS	
PATH:	P: \JNU\70134\DR\ -DRAINS
PLOT:	P: \-LIB\ -PLOT\ PLOT.PCP(10) OR PLOT.PCP(20)
BY:	
DATE:	
DESCRIPTION OF CHANGE:	

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

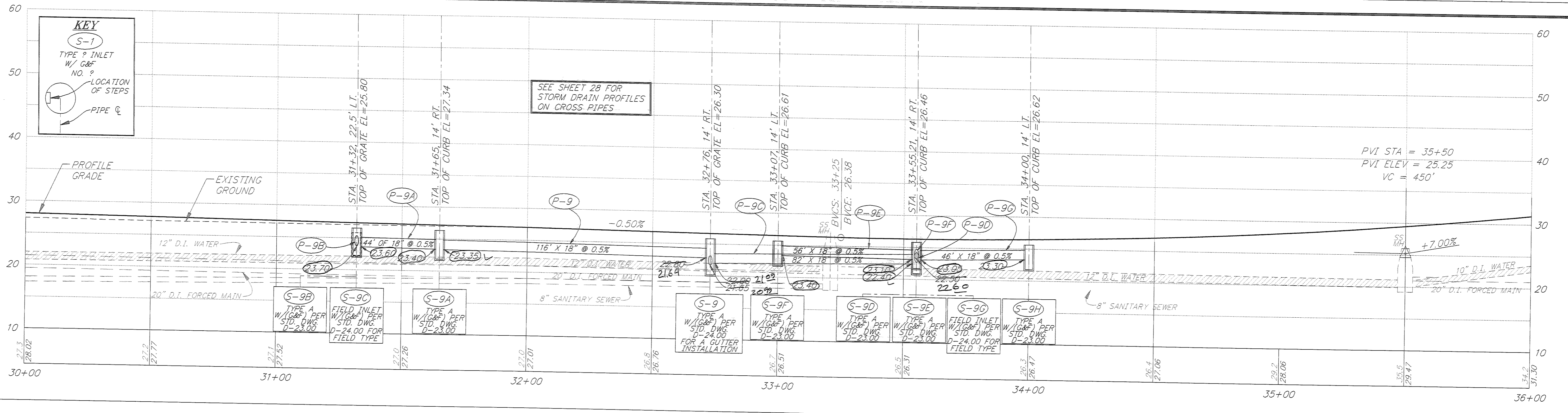
JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
CROSS DRAINAGE DETAILS
STA. 24+00 TO STA. 30+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS	
DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 26 OF 59





REPRESENTS U/G UTILITY DUCTBANK CONTAINING PRIMARY & SECONDARY POWER, FIBER OPTIC TELEPHONE & CABLE TV LINES.
 OUTLINES APPROXIMATE LOCATION(S) WHERE EXISTING SOILS ARE CONTAMINATED WITH PETROLEUM HYDROCARBONS. SEE THE SPECIAL NOTICE TO BIDDERS, PLUS SECTIONS 107 & 203 OF THE SPECIFICATIONS FOR CONDITIONS CONCERNING THE REMOVAL & DISPOSAL OF THESE MATERIALS WITHIN THE WORK ZONE.
 INDICATES INSTALLATION OF INSULATION BOARD, SEE SHEET 49.



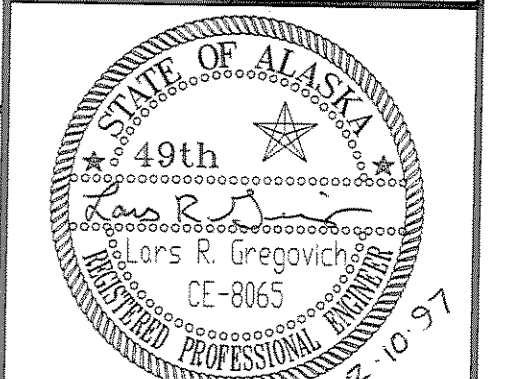
PATH: P:\JNU\70134\DR\SETUPSD SHEET: VIEWS- PLANS, PRO3, TB3		
PLOT: P:\-LIB\-PLOT\LOT.PCP(1) OR PLOT.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

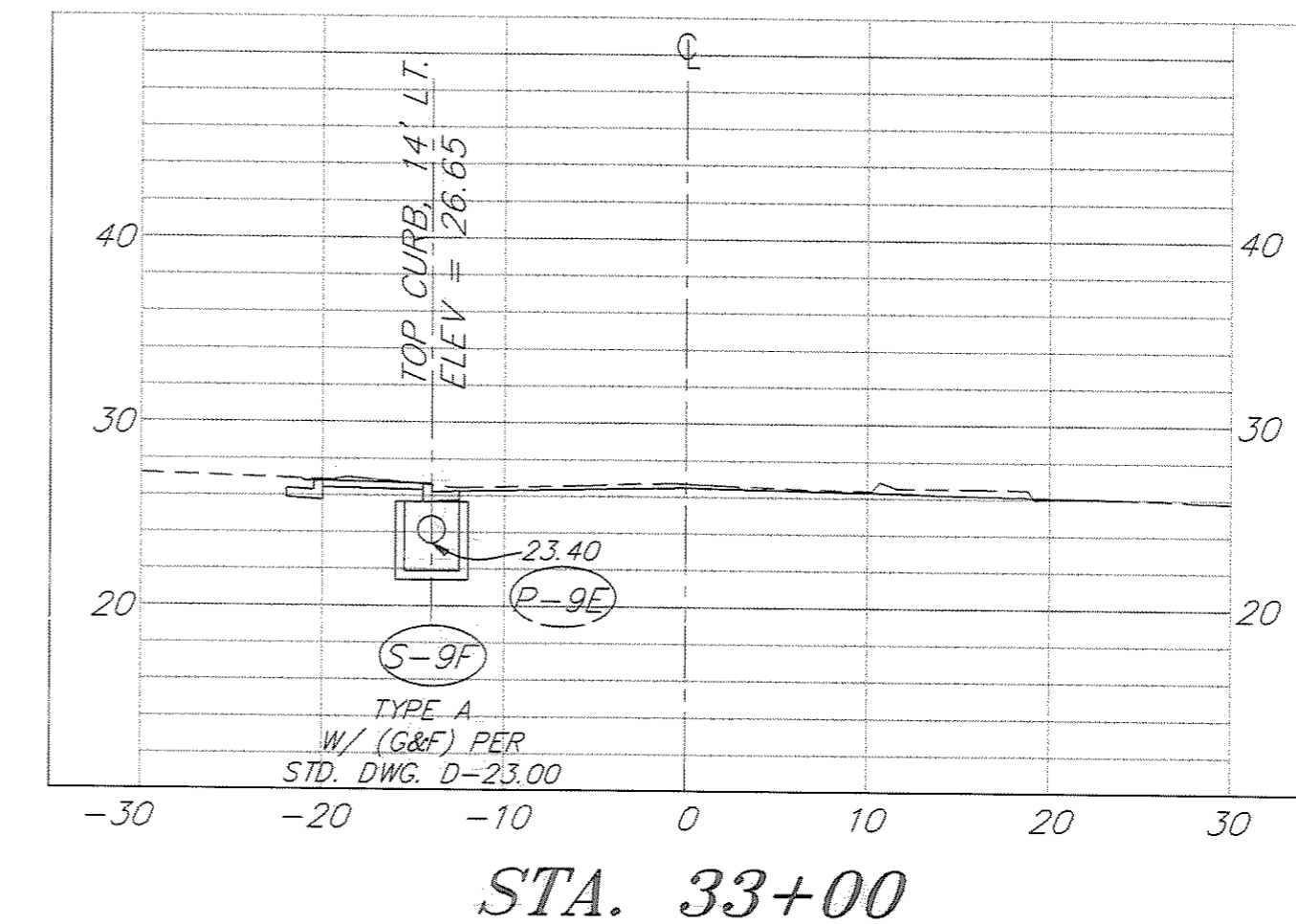
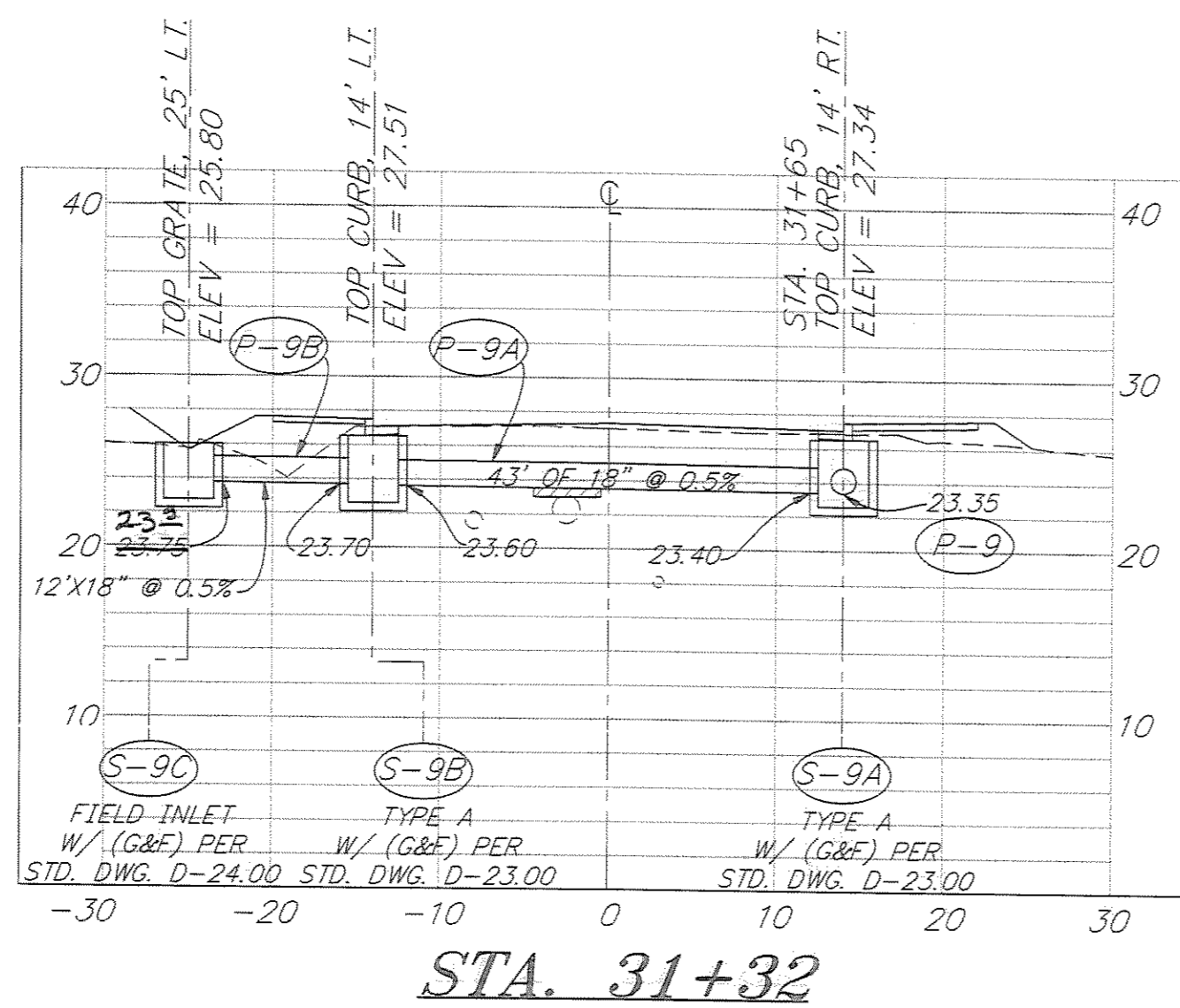
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU ALASKA
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN & PROFILE DETAILS
 STA. 30+00 TO STA. 35+00

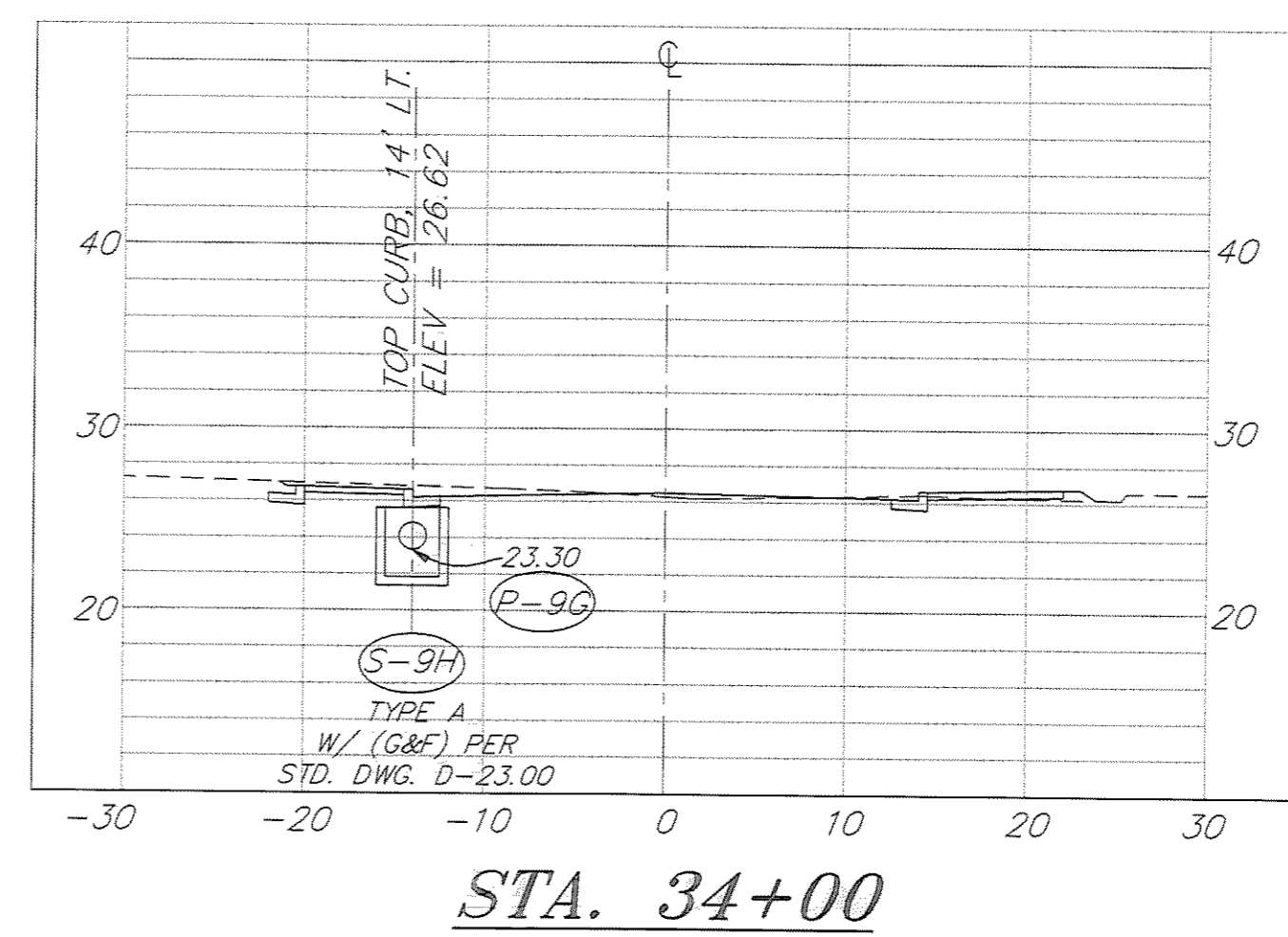
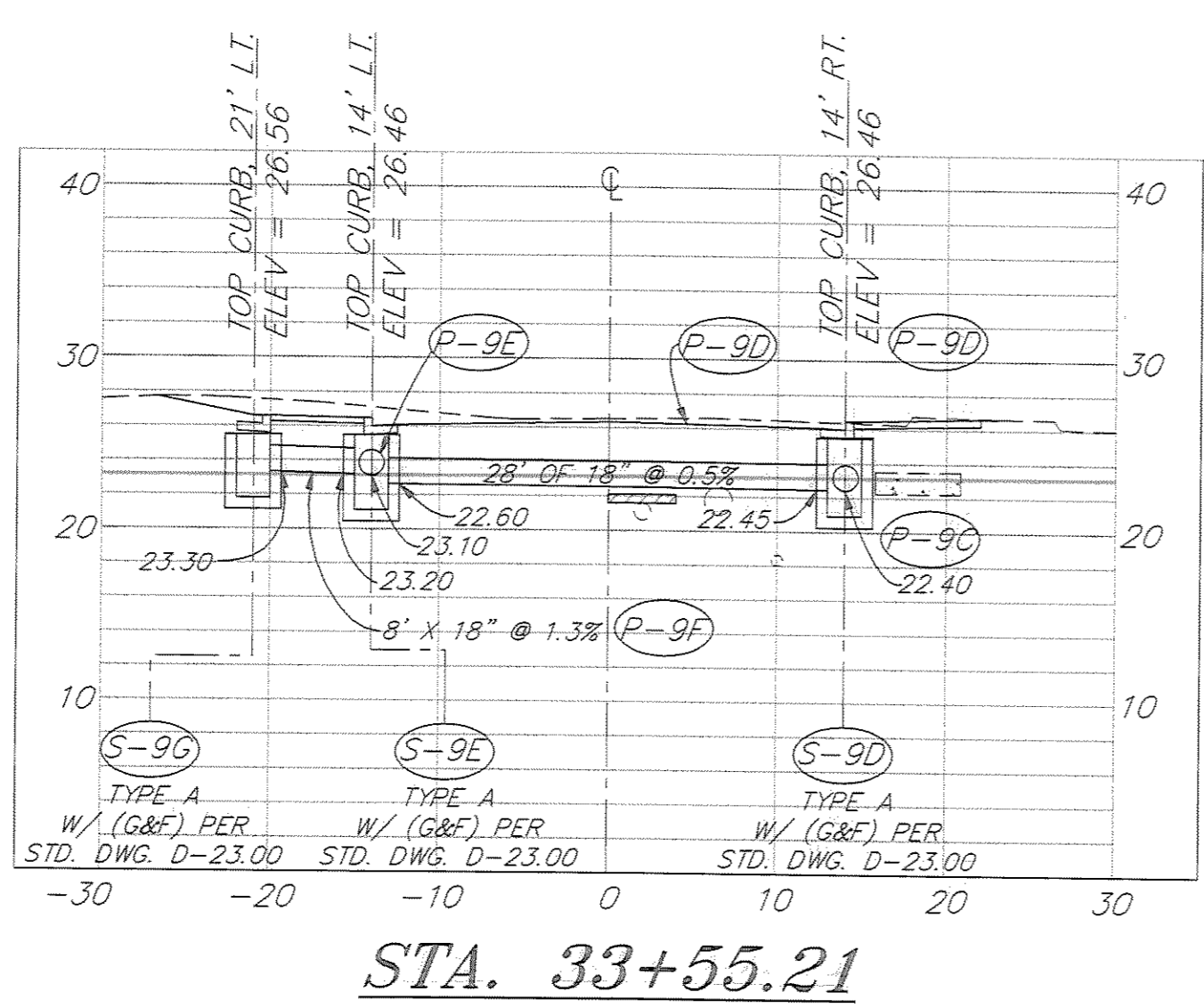
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 27 OF 59





INDICATES INSTALLATION OF INSULATION BOARD. SEE SHEET 49 FOR DETAILS



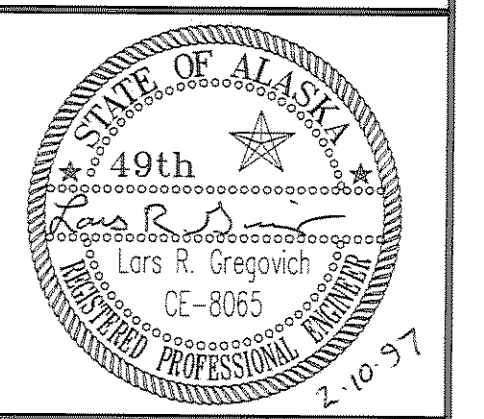
PATH: P:\JNU\70134\DR\ -DRAIN6		
PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(10) OR PLOT.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ 70134
 CROSS DRAINAGE DETAILS
 STA. 30+00 TO STA. 35+00
 ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

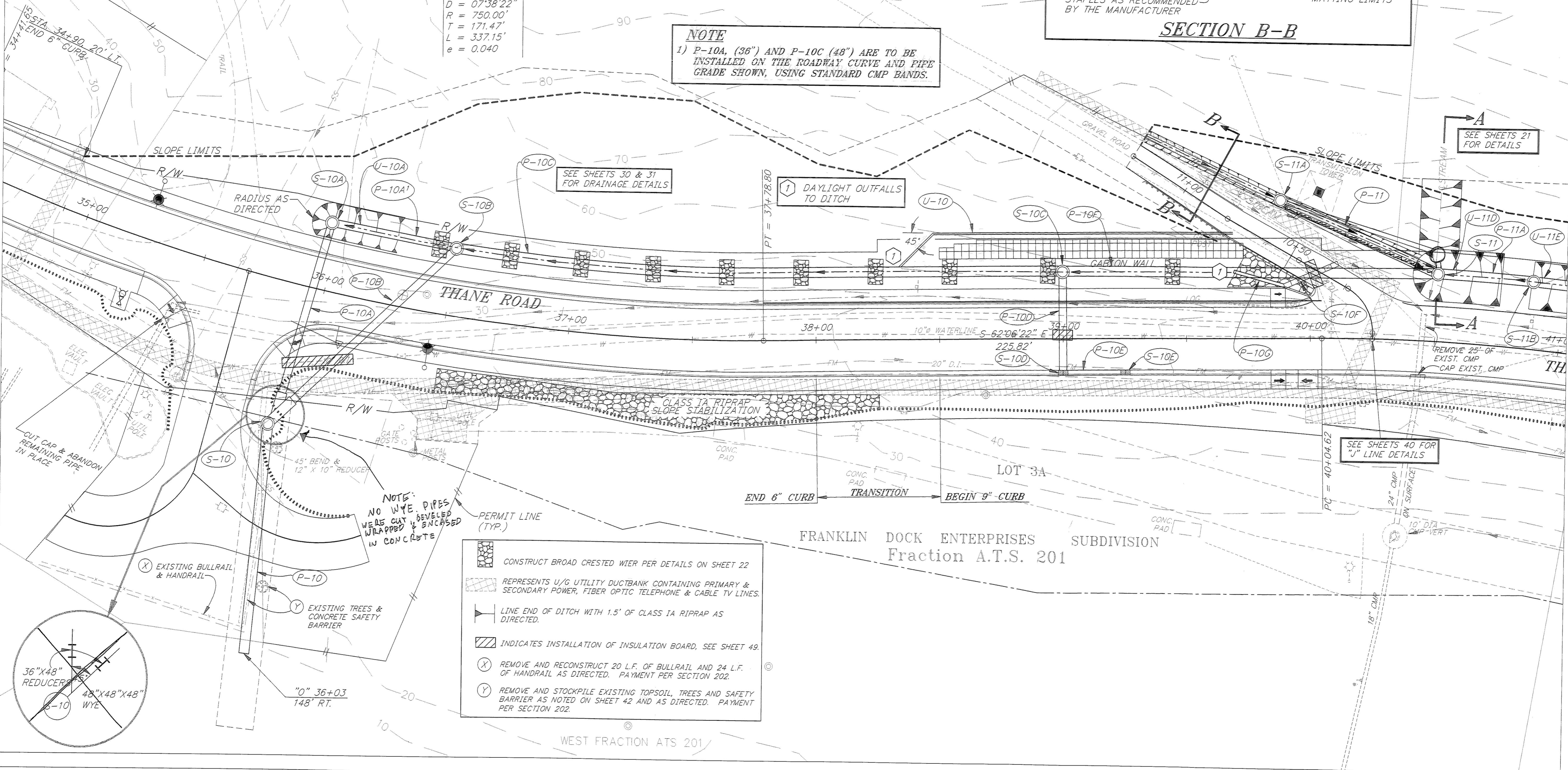
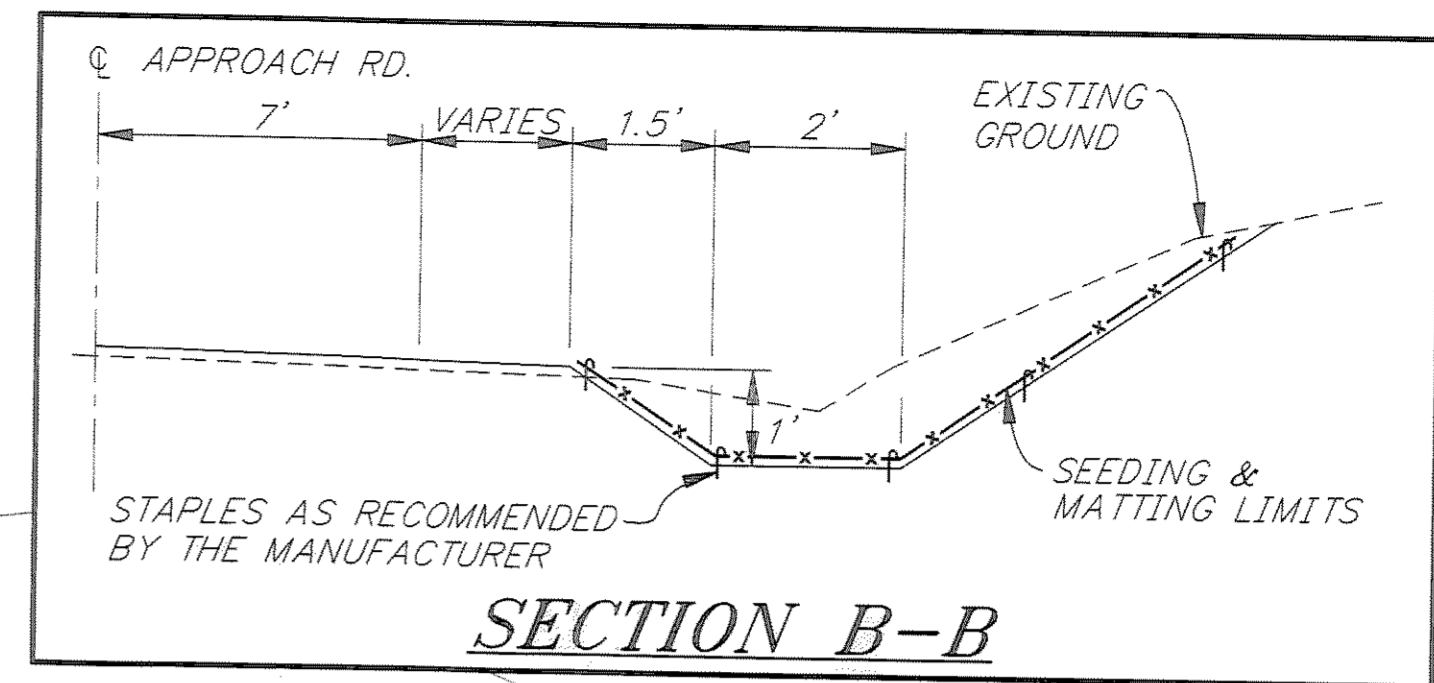
DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 28 OF 59



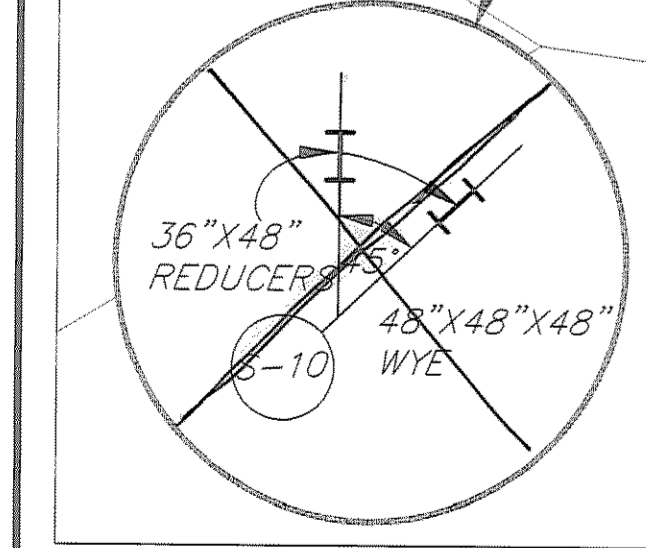
MINERAL SURVEY 982B
"E" MILLSITE

CURVE DATA
 $\Delta = 25^{\circ}45'23''$
 $D = 07^{\circ}38'22''$
 $R = 750.00'$
 $T = 171.47'$
 $L = 337.15'$
 $e = 0.040$

NOTE
 1) P-10A, (36") AND P-10C (48") ARE TO BE INSTALLED ON THE ROADWAY CURVE AND PIPE GRADE SHOWN, USING STANDARD CMP BANDS.



- CONSTRUCT BROAD CRESTED WIER PER DETAILS ON SHEET 22
- REPRESENTS U/G UTILITY DUCTBANK CONTAINING PRIMARY & SECONDARY POWER, FIBER OPTIC TELEPHONE & CABLE TV LINES.
- LINE END OF DITCH WITH 1.5' OF CLASS 1A RIPRAP AS DIRECTED.
- INDICATES INSTALLATION OF INSULATION BOARD, SEE SHEET 49.
- (X) REMOVE AND RECONSTRUCT 20 L.F. OF BULLRAIL AND 24 L.F. OF HANDRAIL AS DIRECTED. PAYMENT PER SECTION 202.
- (Y) REMOVE AND STOCKPILE EXISTING TOPSOIL, TREES AND SAFETY BARRIER AS NOTED ON SHEET 42 AND AS DIRECTED. PAYMENT PER SECTION 202.



RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

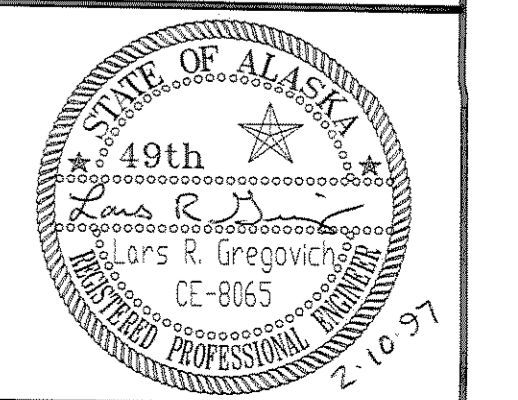
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

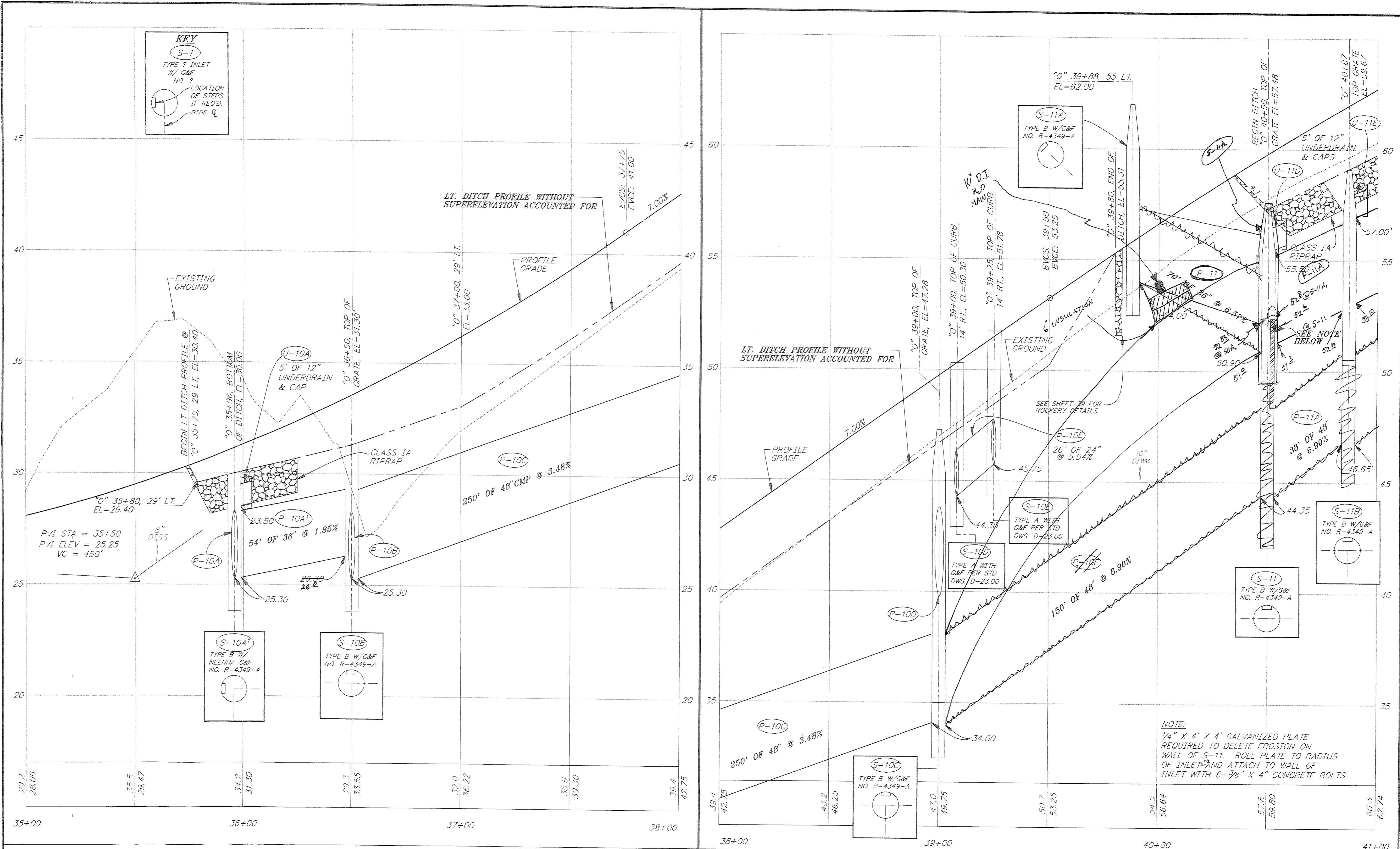
JUNEAU

THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN DETAILS
 STA. 35+00 TO STA. 41+00

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DESIGNED BY: E. CAVAGNARO/D. GRIGGS	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 29 OF 59





KEY
 S-1
 TYPE ? INLET
 W/ G&F
 NO. ?
 LOCATION
 OF STEPS
 IF REQ'D.
 PIPE Ø

NOTE:
 1/4" X 4' X 4' GALVANIZED PLATE
 REQUIRED TO DELETE EROSION ON
 WALL OF S-11. ROLL PLATE TO RADIUS
 OF INLET AND ATTACH TO WALL OF
 INLET WITH 6-3/8" X 4" CONCRETE BOLTS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\JNU\70134\DR\SETUPSD SHEETS: VIEWS- PRO4, PRO5, TB5		
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.F.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

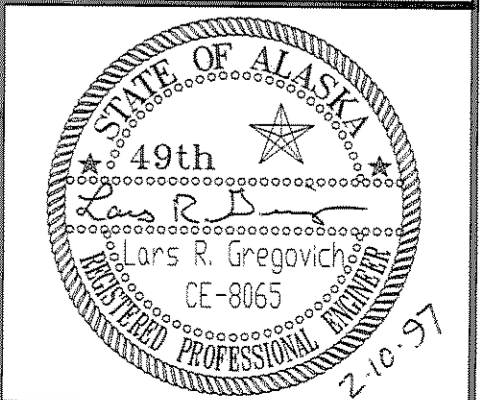
JUNEAU

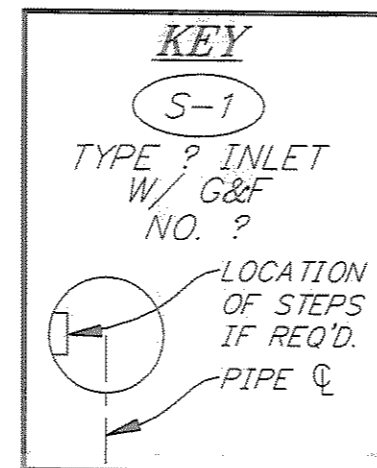
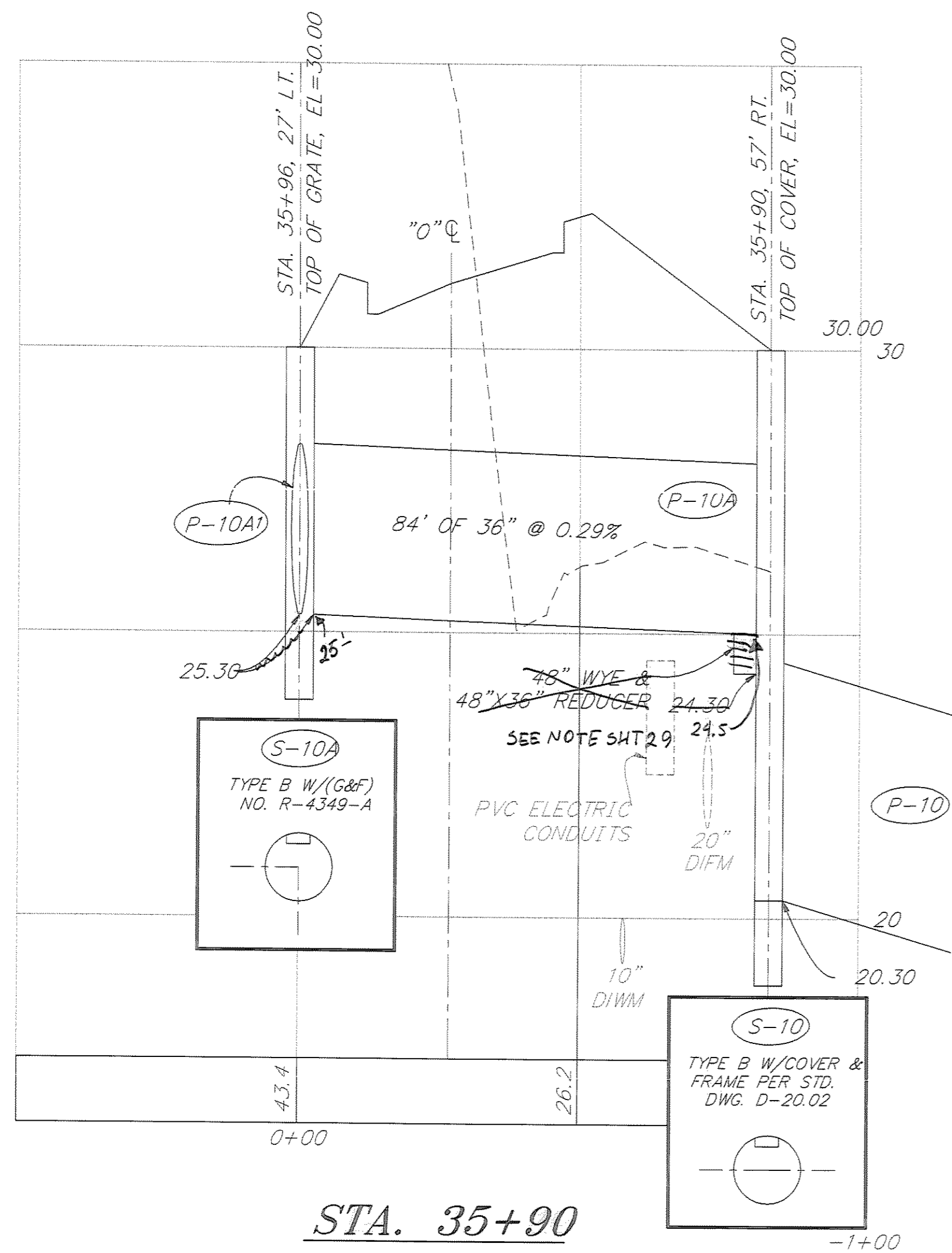
THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PROFILE DETAILS
 STA. 35+00 TO STA. 41+00

ALASKA

DESIGNED BY:
 E. CAVAGNARO/D. GRIGGS
 DRAWN BY:
 K. SNYDER/W. HICKOK
 CHECKED BY:
 L. GREGOVICH/D. GRIGGS

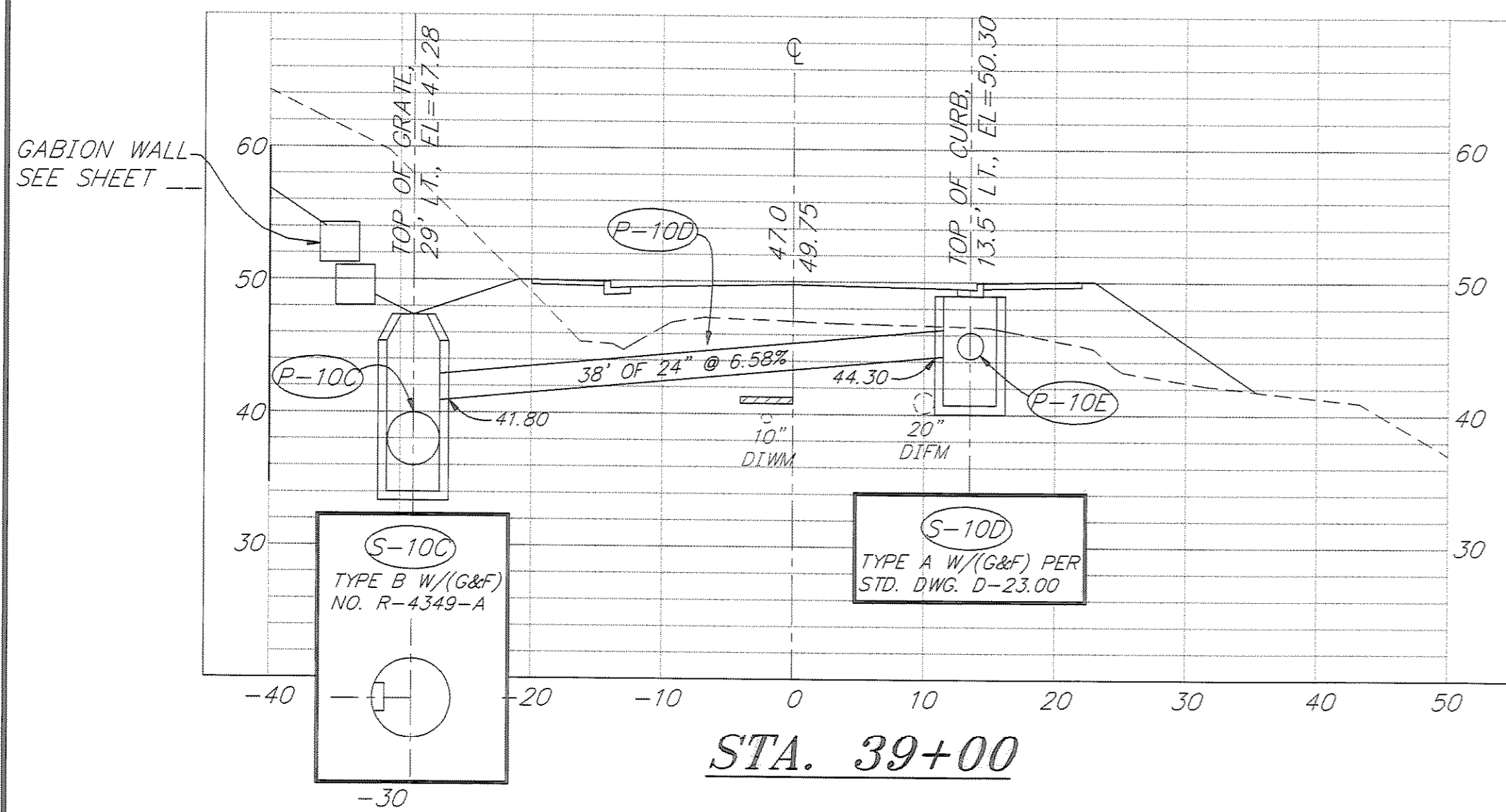
PROJECT NO.
 70134
 DATE:
 FEB. 1997
 SHEET 30 OF 59



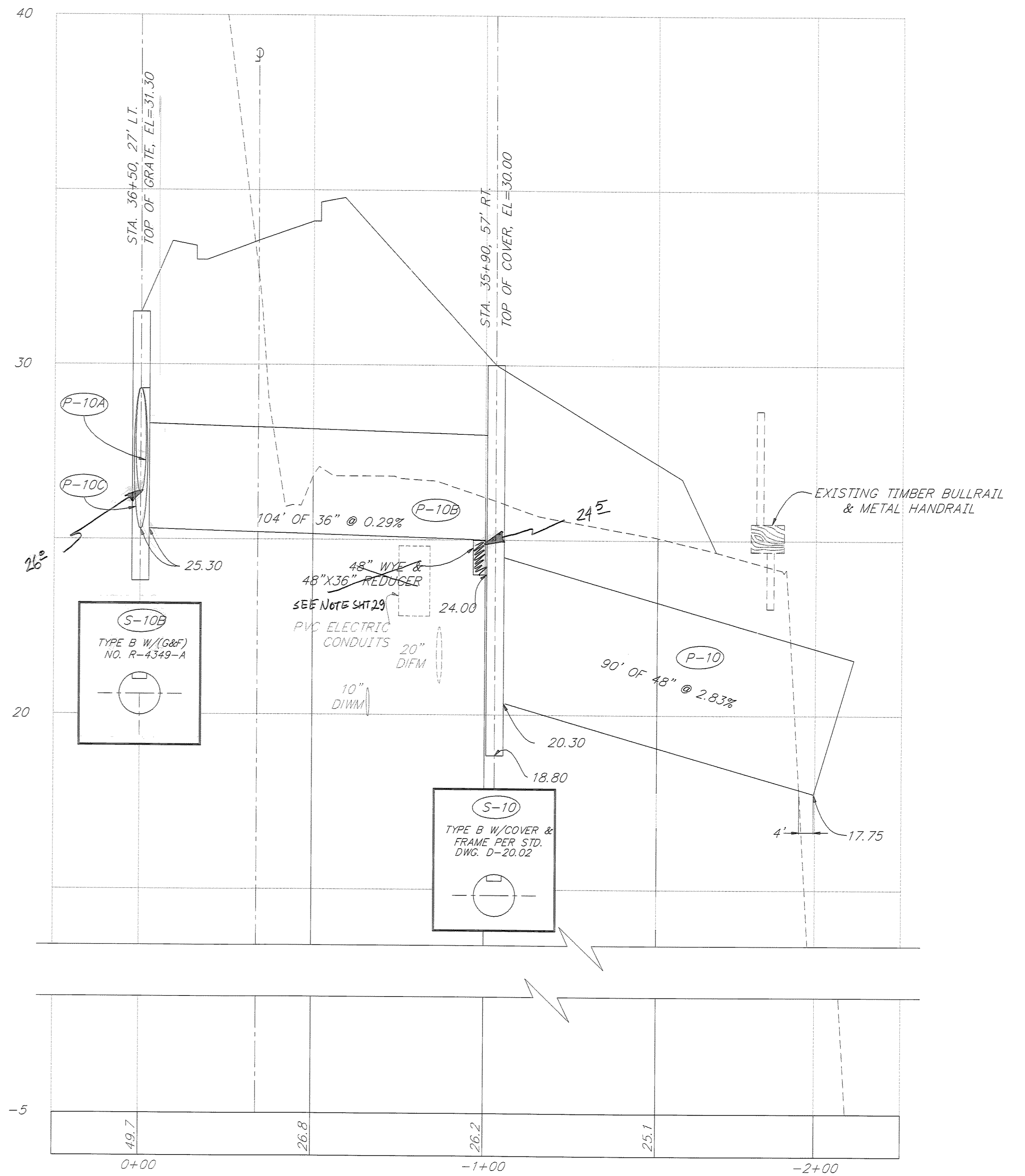


INDICATES INSTALLATION OF INSULATION BOARD. SEE SHEET 49 FOR DETAILS.

STA. 35+90



STA. 39+00



STA. 36+00

PATH: P:\JNU\70134\DR\ -DRAINS		
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(20) OR PLOT.F.PCP(40)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU

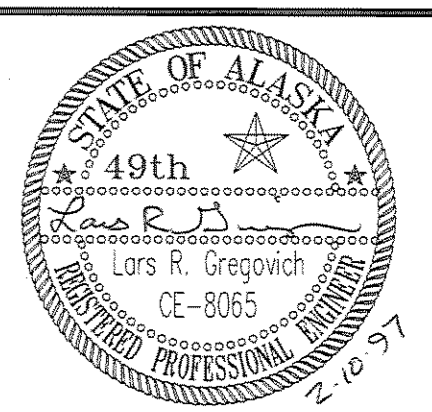
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
CROSS DRAINAGE DETAILS
STA. 35+00 TO STA. 41+00

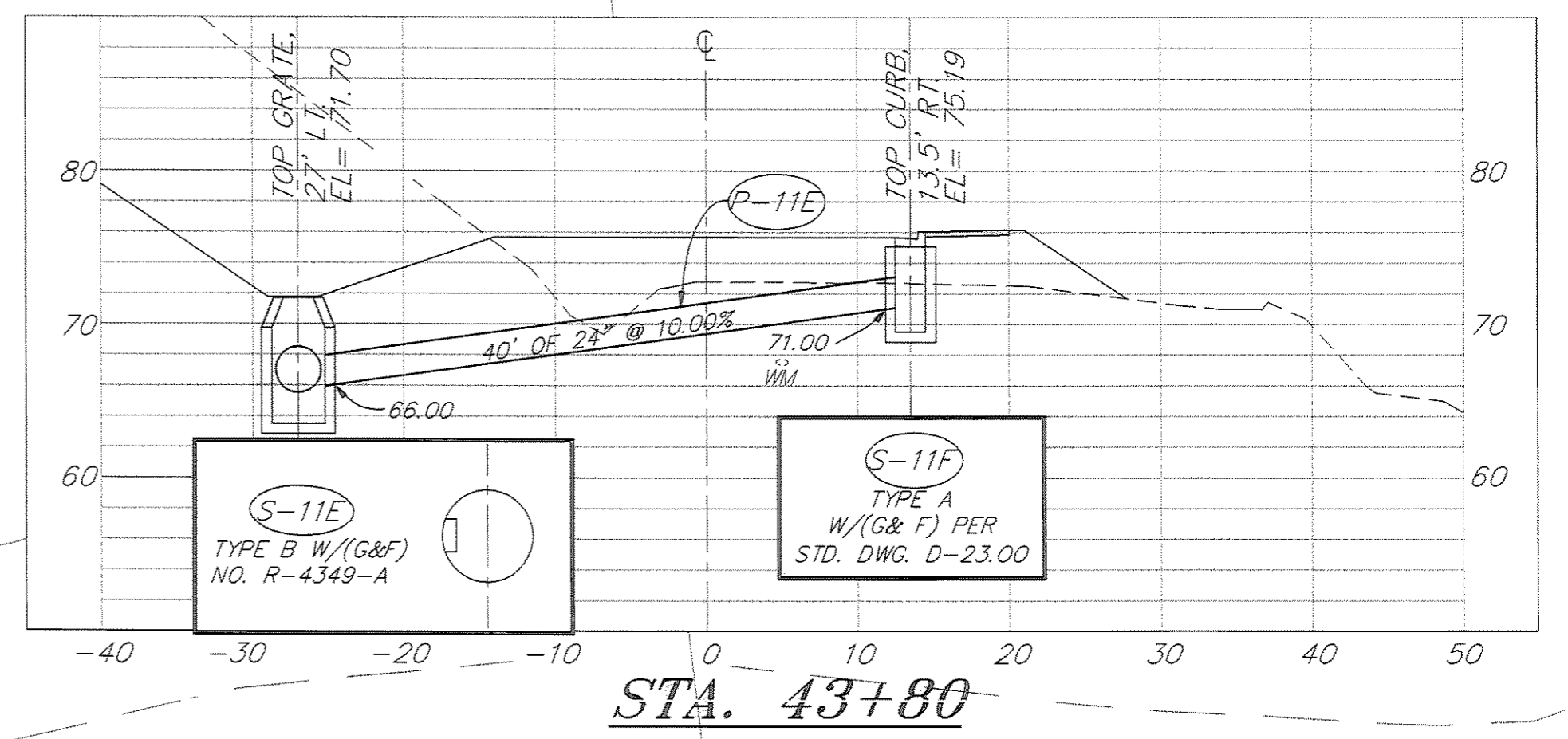
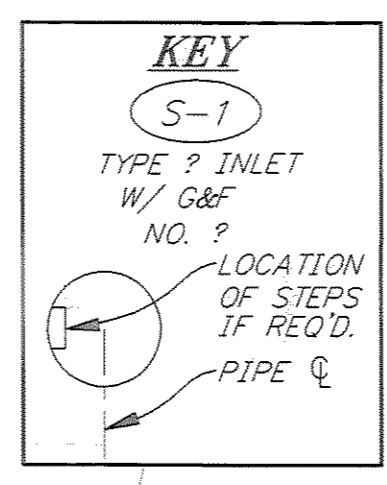
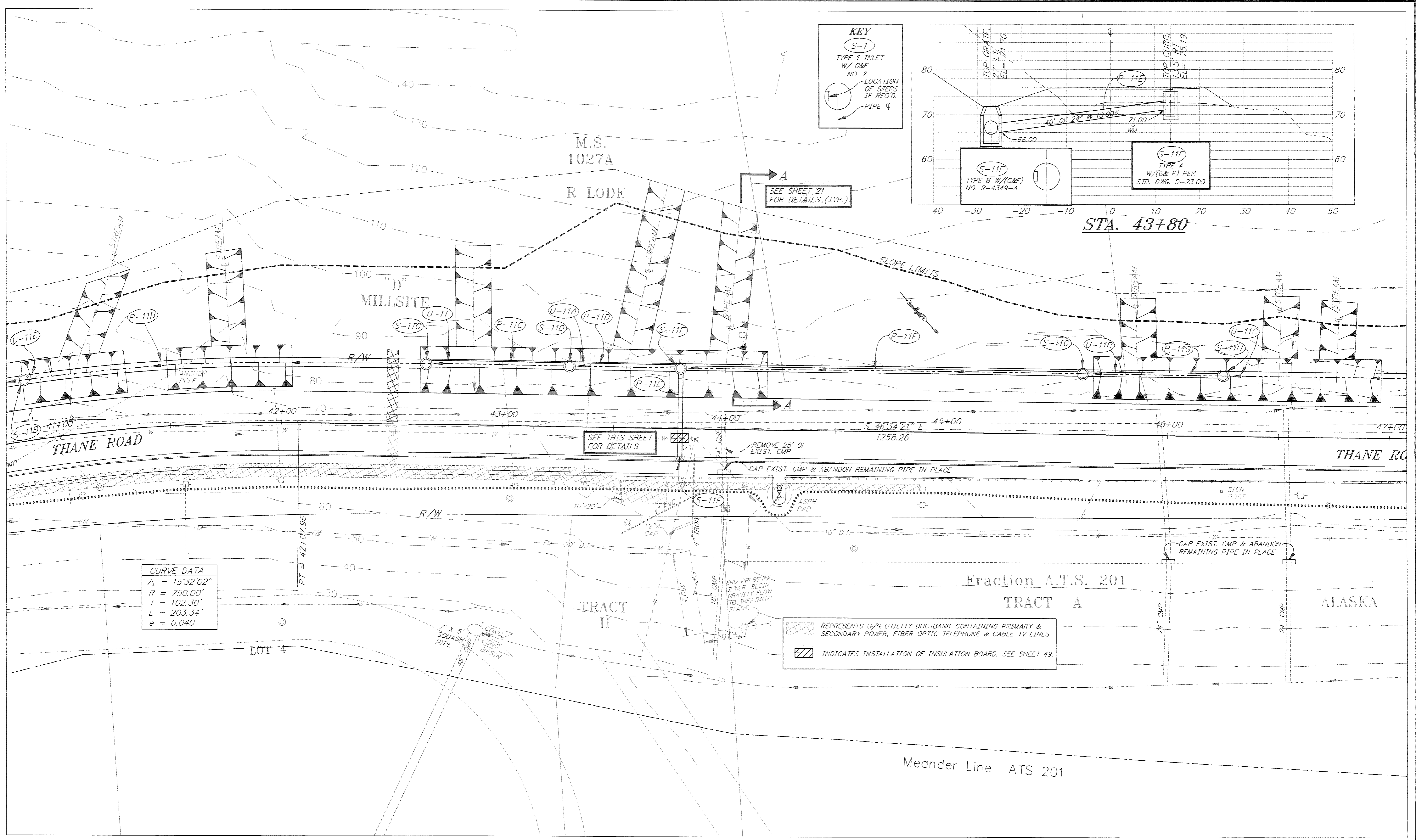
ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:
E. CAVAGNARO/D. KROMAREK
DRAWN BY:
K. SNYDER
CHECKED BY:
L. GREGOVICH/D. GRIGGS

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 31 OF 59





CURVE DATA

$\Delta = 15^{\circ}32'02''$
 $R = 750.00'$
 $T = 102.30'$
 $L = 203.34'$
 $e = 0.040$

REPRESENTS U/G UTILITY DUCTBANK CONTAINING PRIMARY & SECONDARY POWER, FIBER OPTIC TELEPHONE & CABLE TV LINES.

INDICATES INSTALLATION OF INSULATION BOARD, SEE SHEET 49.

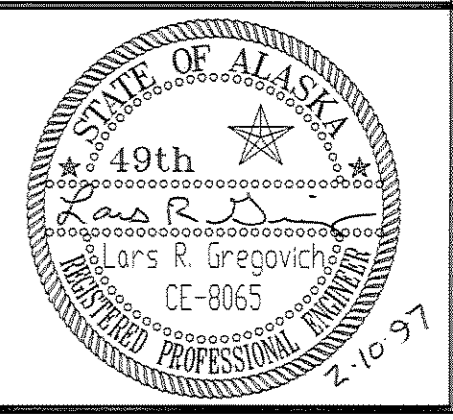
PATH: P:\JNU\70134\DR\SETUPSD SHEET2: VIEWS- PLAN5, TB6		
PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

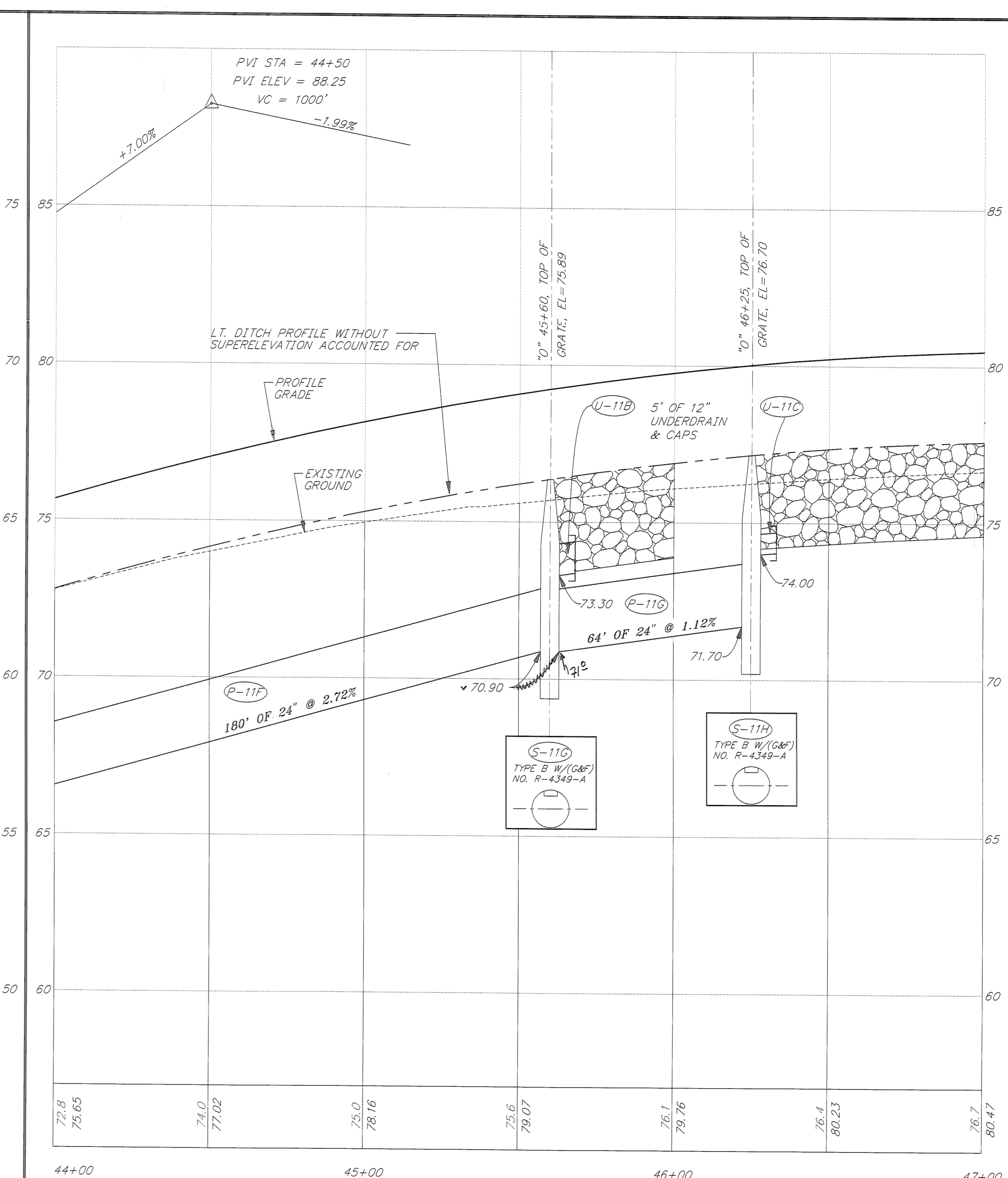
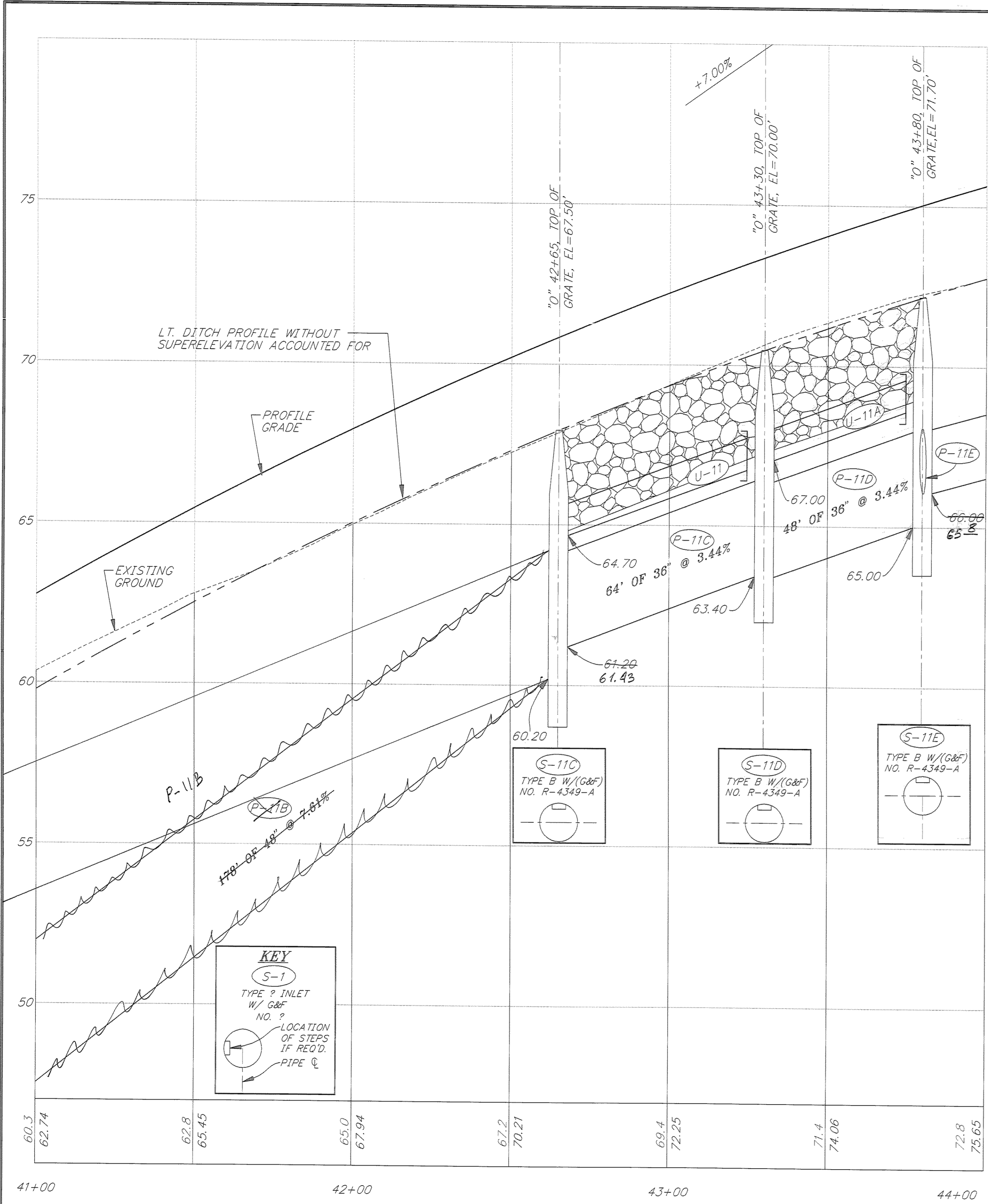
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN DETAILS
 STA. 41+00 TO STA. 47+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 32 OF 59





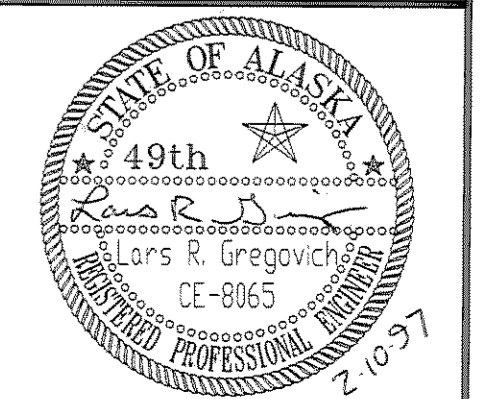
PATH: P:\JNU\70134\DR\SETUPSD SHEETS: VIEWS- PRO6, PRO7, TB7		
PLOT: P:\-LIB\-PLOT\PL0TF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

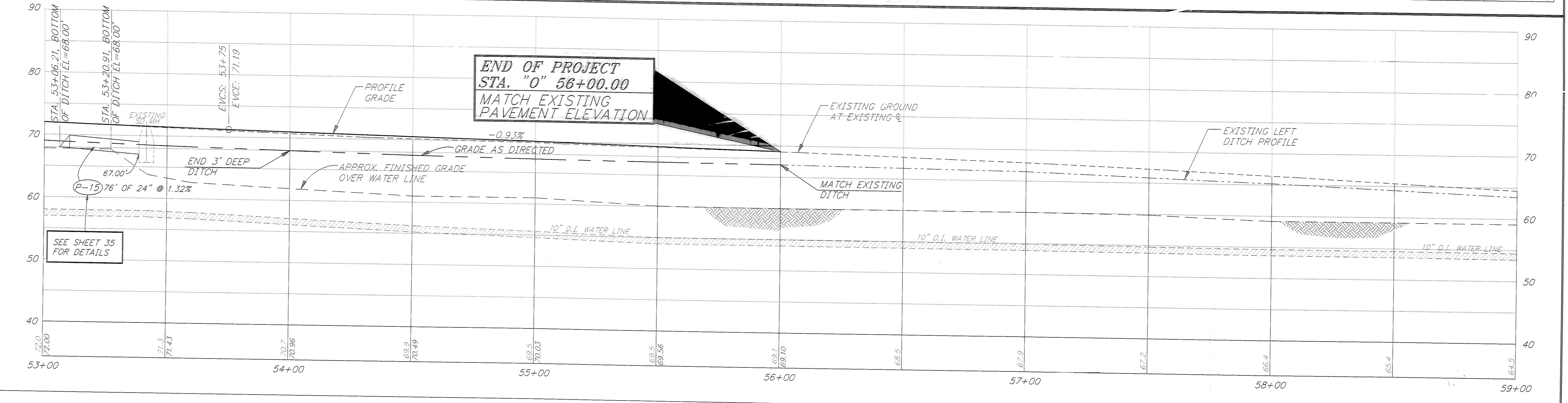
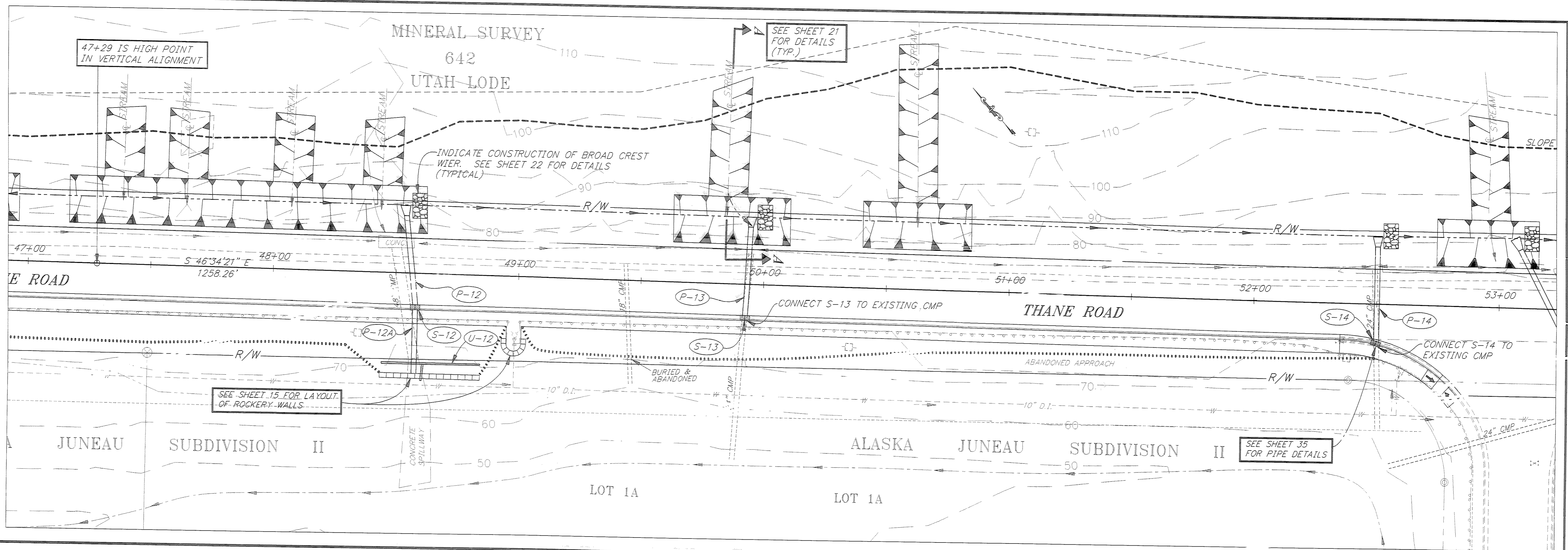
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PROFILE DETAILS
 STA. 41+00 TO STA. 47+00

DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 33 OF 59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





PATH: P:\JNU\70134\DR\SETUPSD SHEET1: VIEWS- PLAN6, PRO8, TB8

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

BY:	DATE:	DESCRIPTION OF CHANGE:

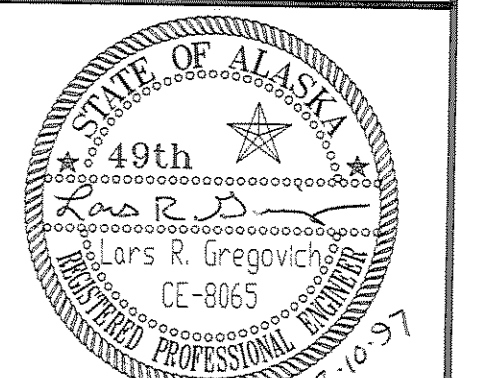
RECORD OF REVISIONS

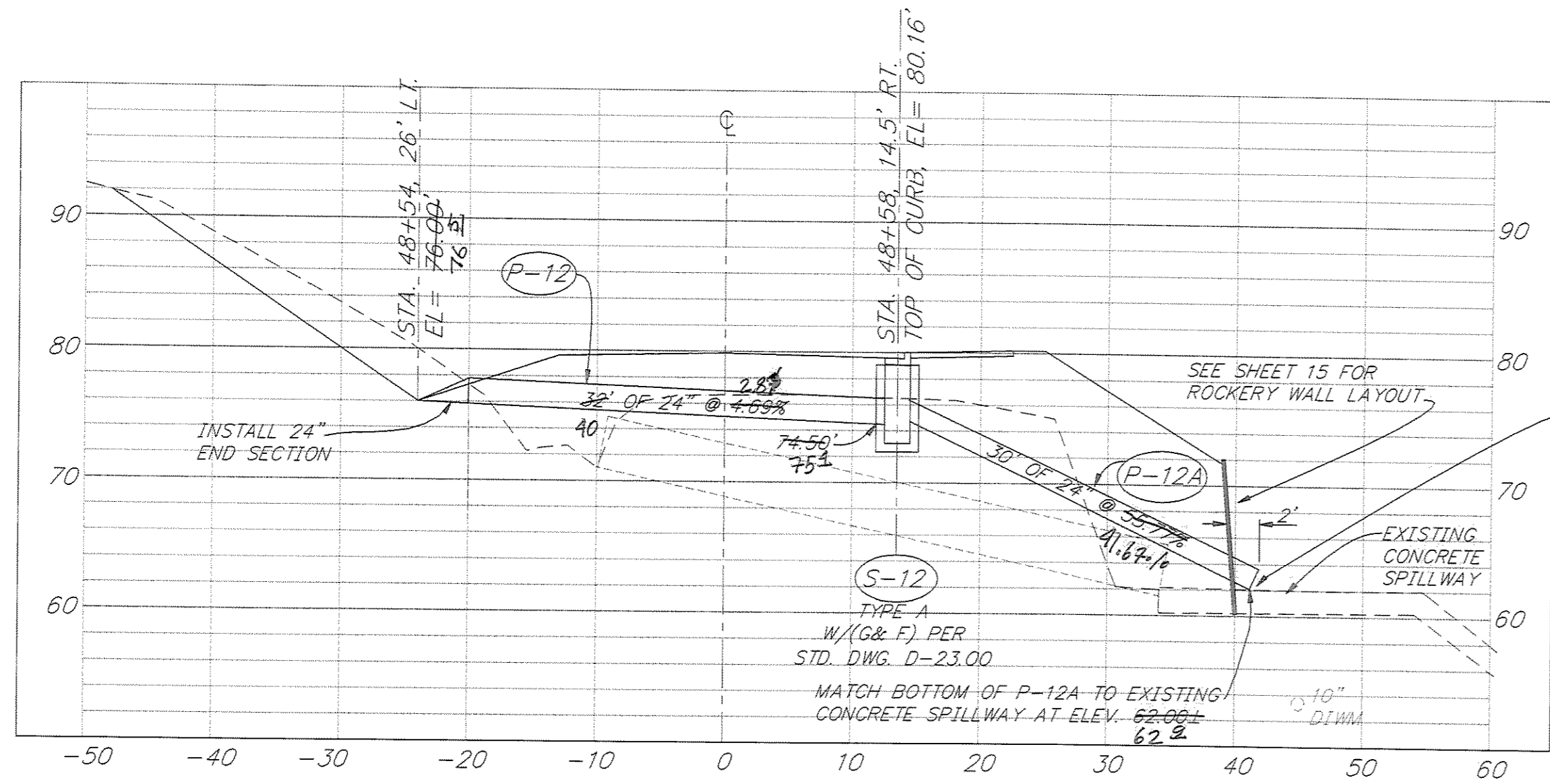
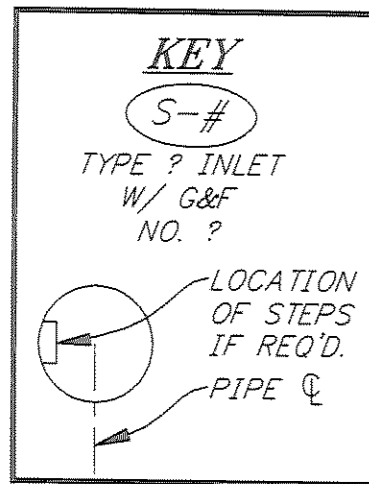
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN & PROFILE DETAILS
STA. 47+00 TO STA. 53+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

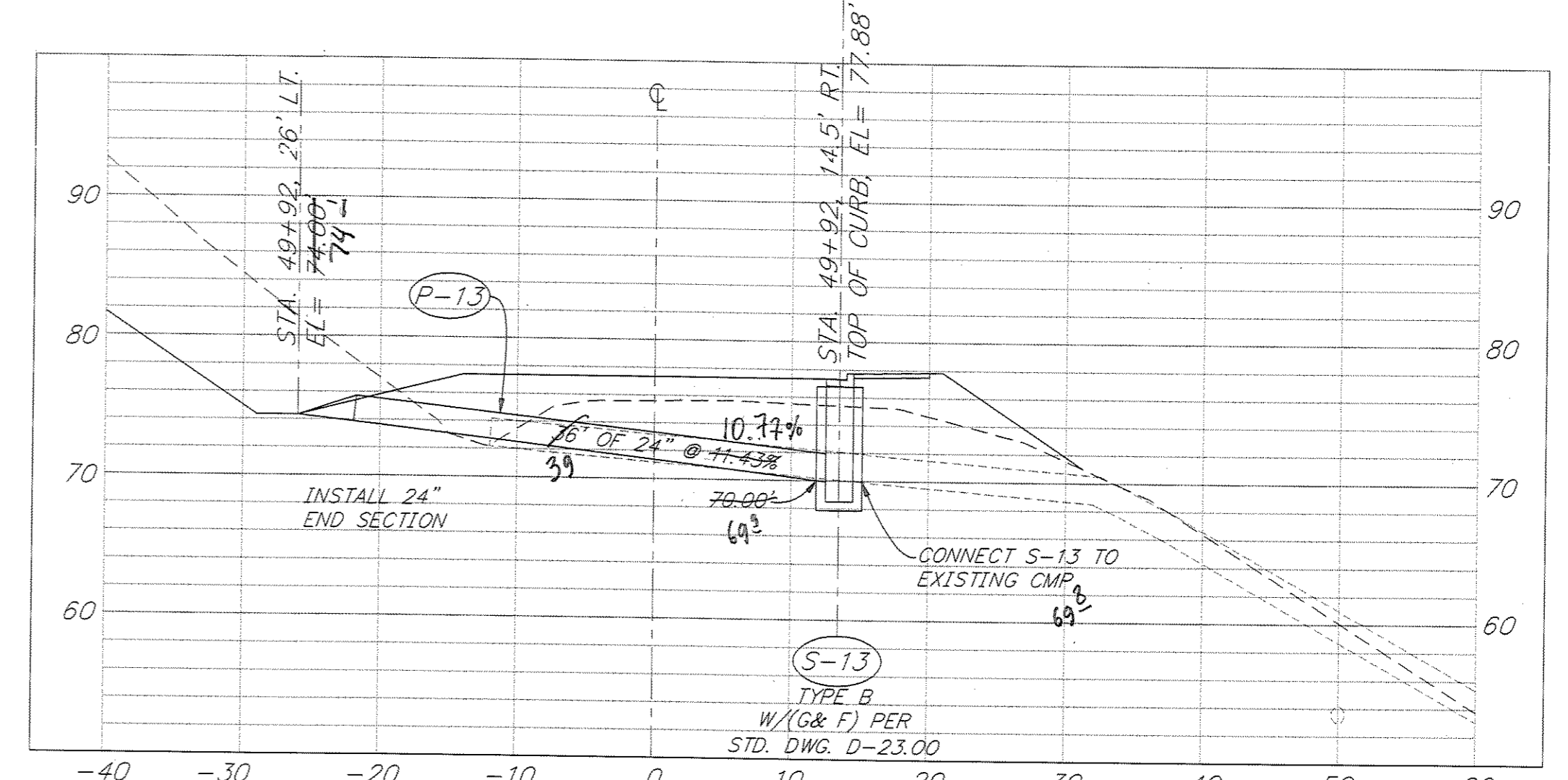
DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 34 OF 59



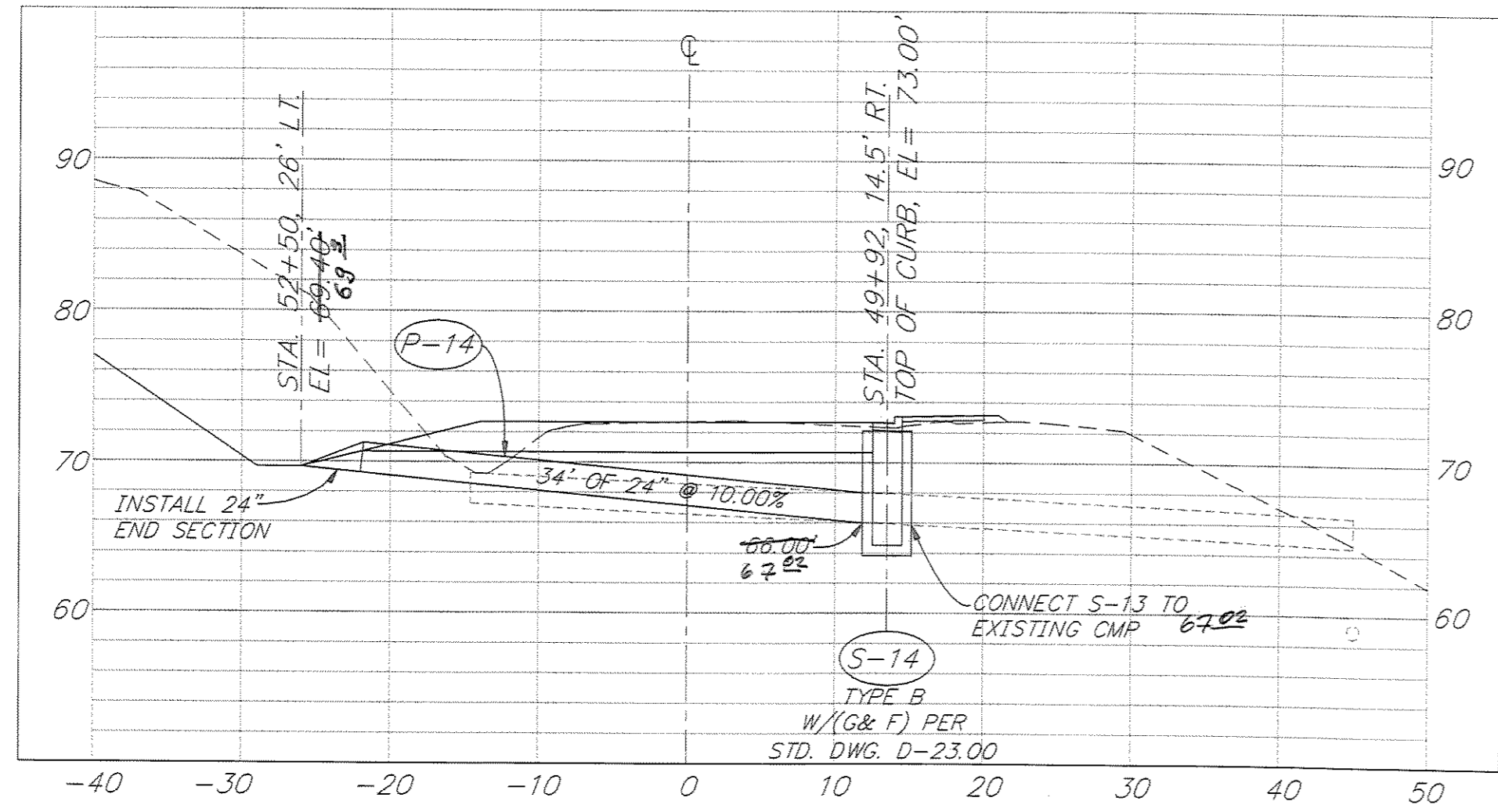


STA. 48+50 TO STA. 48+59

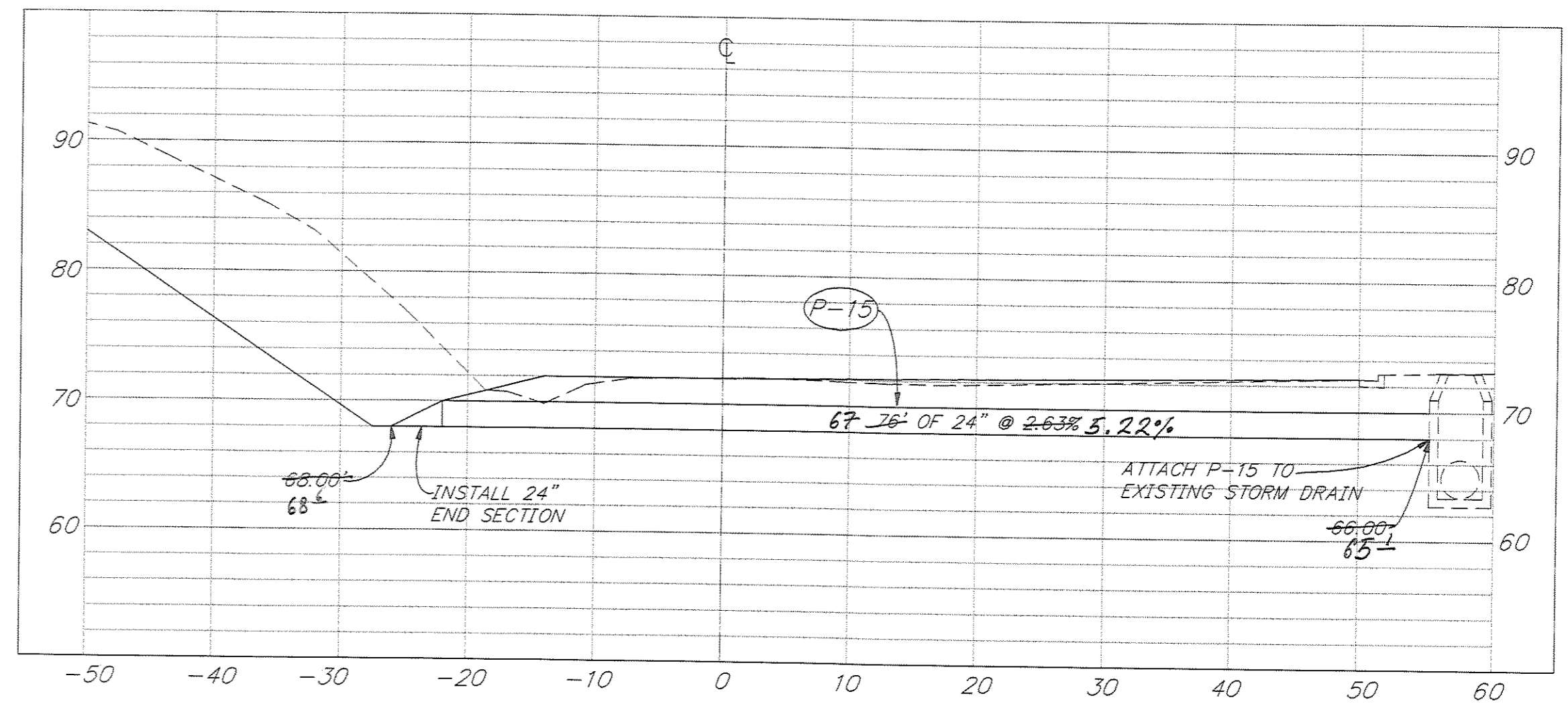
FILL VOIDS AND DEPRESSIONS BETWEEN ROCKERY AND EXISTING CONCRETE SPILLWAY WITH CLASS W CONCRETE, AS DIRECTED, TO FORM A WATER TIGHT SEAL.



STA. 49+92



STA. 52+50



STA. 53+25

PATH: P:\JNU\70134\DR\ -DRAIN7		
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(10) OR PLOT.F.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

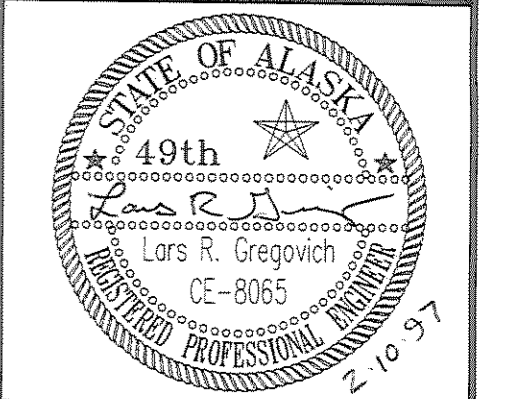
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

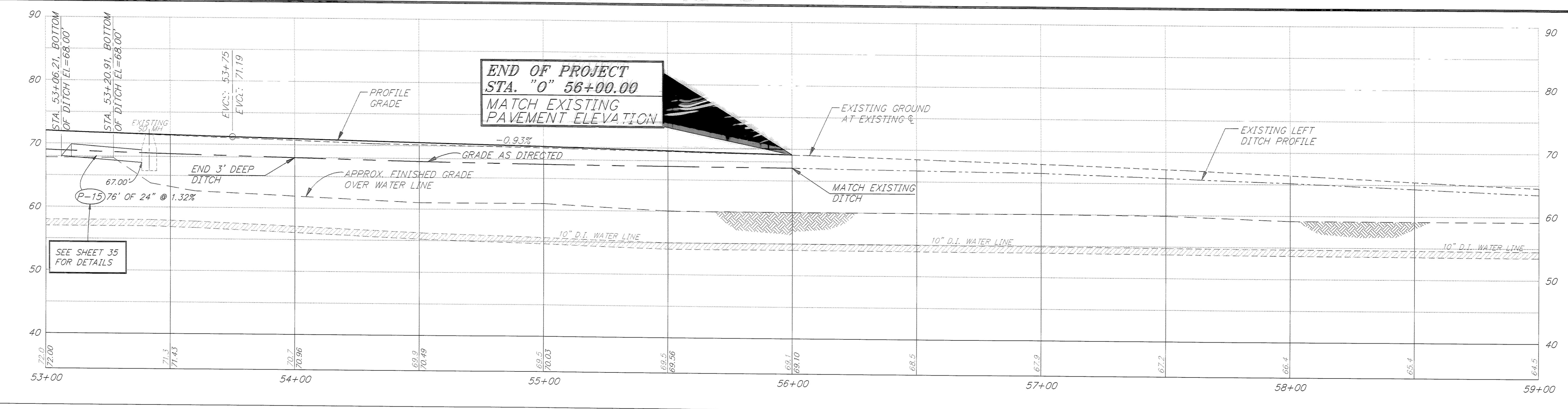
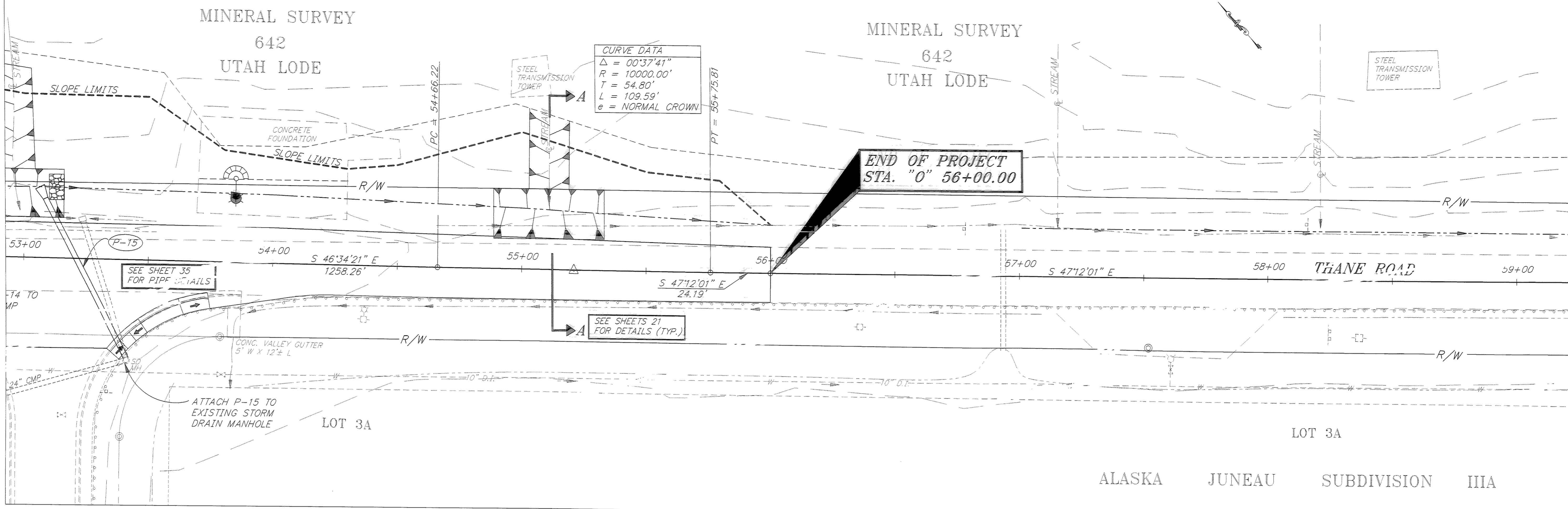
JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
ALASKA
CROSS DRAINAGE DETAILS
STA. 47+00 TO STA. 53+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER	DATE: 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 35 OF 59





PATH: P:\JNU\70134\DR\SETUPSD SHEET: VIEWS- PLAN7, PRO9, TB9
 PLOT: P:\-LIB\-PLOT\PLOT.PCP(1) OR PLOT.PCP(2)
 BY: DATE: DESCRIPTION OF CHANGE:

NO.	DATE	DESCRIPTION OF CHANGE

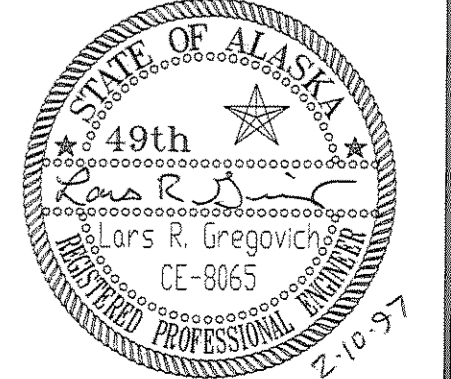
RECORD OF REVISIONS

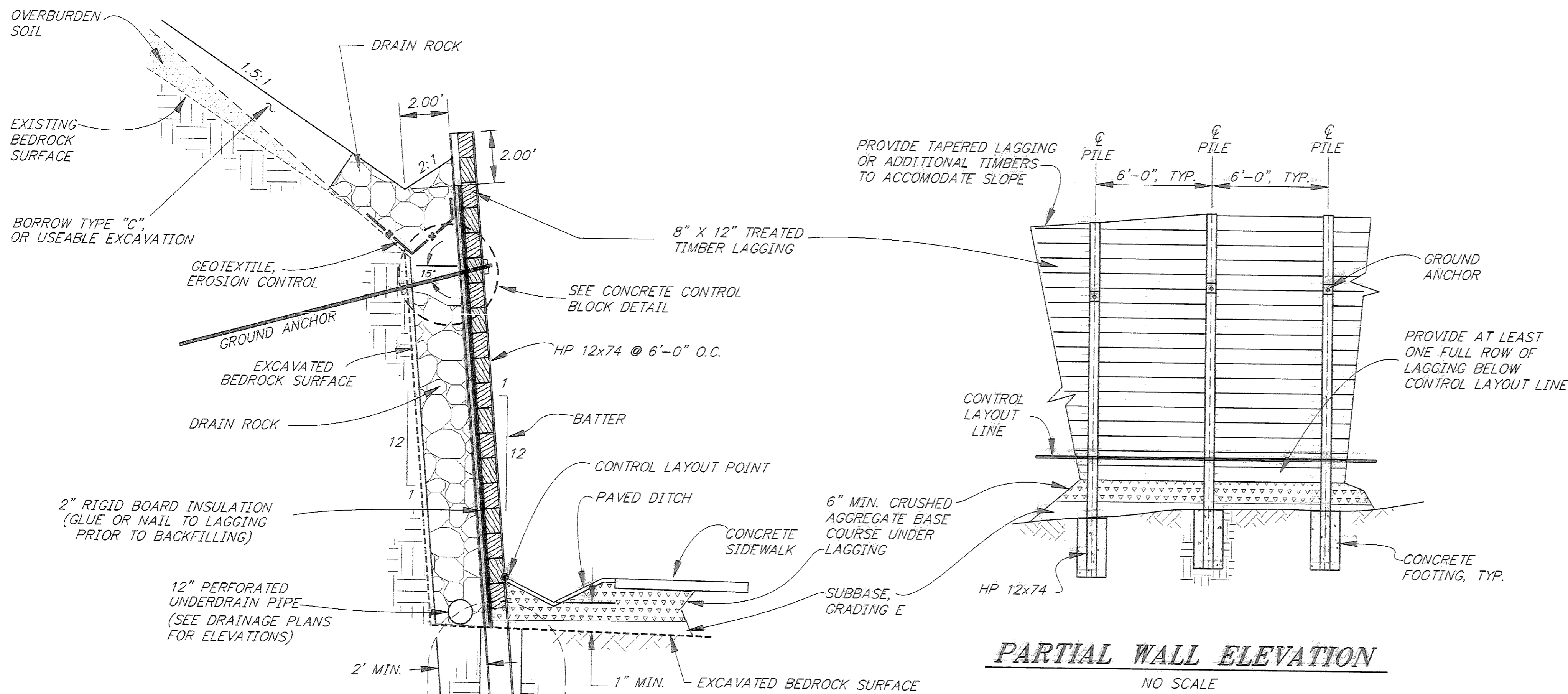
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU ALASKA
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
DRAINAGE PLAN & PROFILE DETAILS
 STA. 53+00 TO STA. 59+00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: E. CAVAGNARO/D. KROMAREK	PROJECT NO. 70134
DRAWN BY: K. SNYDER/W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH/D. GRIGGS	SHEET 36 OF 59





PARTIAL WALL ELEVATION
NO SCALE

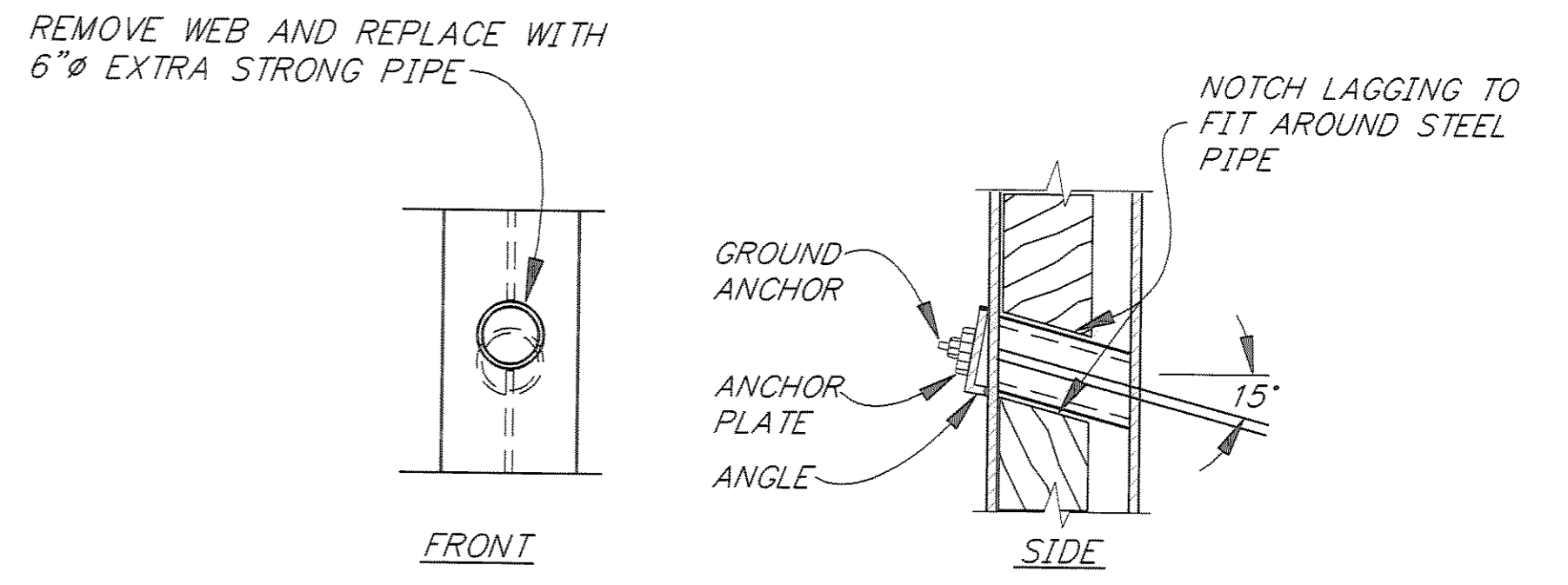
GENERAL NOTES

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1996 EDITION
CONSTRUCTION: STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1988, STANDARD MODIFICATIONS, AND SPECIAL PROVISIONS.

DESIGN UNIT STRESSES:
CAST IN PLACE CONCRETE: $F_c = 4,000$ PSI IN 3 DAYS
STRUCTURAL STEEL: $F_y = 36$ KSI
TREATED TIMBER: $F_b = 1,550$ PSI, $F_y = 85$ PSI
ANCHORS: $F_u = 150,000$ PSI

TIMBER LAGGING SHALL BE DENSE NO. 1 DOUGLAS FIR-LARCH AND SHALL BE TREATED PER THE SPECIFICATIONS. CONTRACTOR HAS THE OPTION TO FURNISH REINFORCED CONCRETE LAGGING. REFER TO SECTION 510 OF THE SPECIFICATIONS.

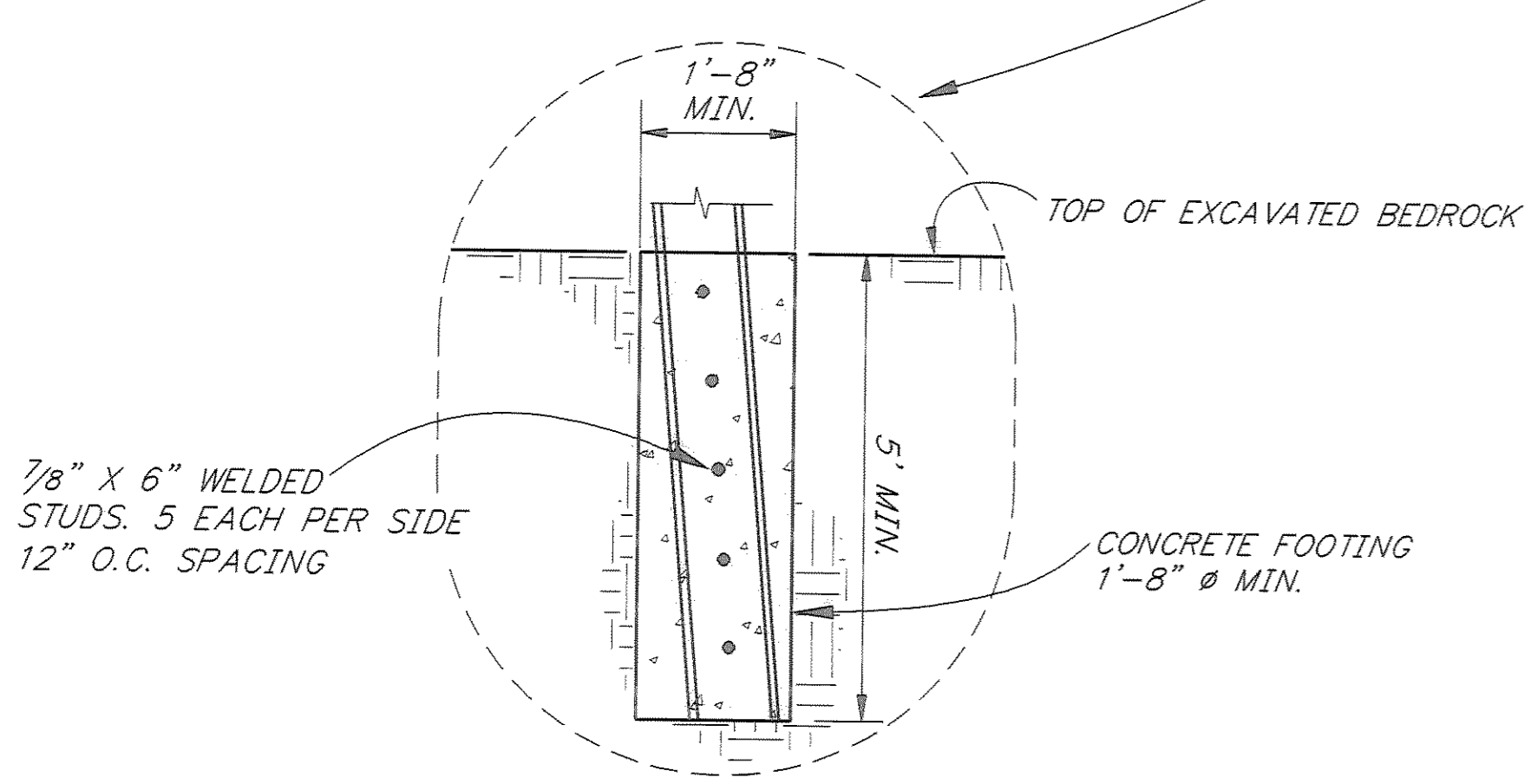
DESIGN LOAD FOR GROUND ANCHORS IS 50 KIPS.



GROUND ANCHOR CONNECTION DETAIL

WALL 1 & WALL 2 TYPICAL SECTION ANCHORED PILE CONDITION

NO SCALE

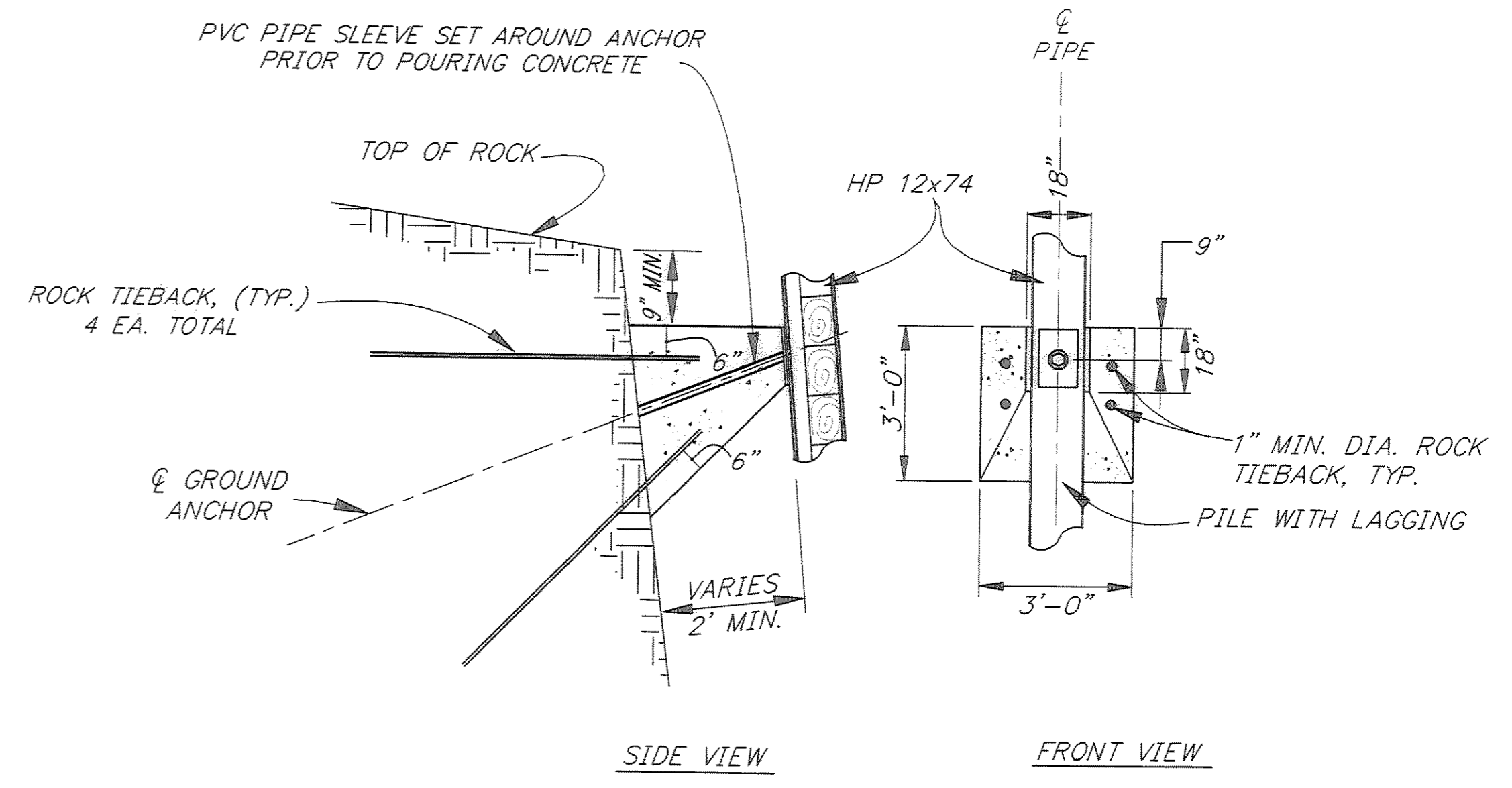
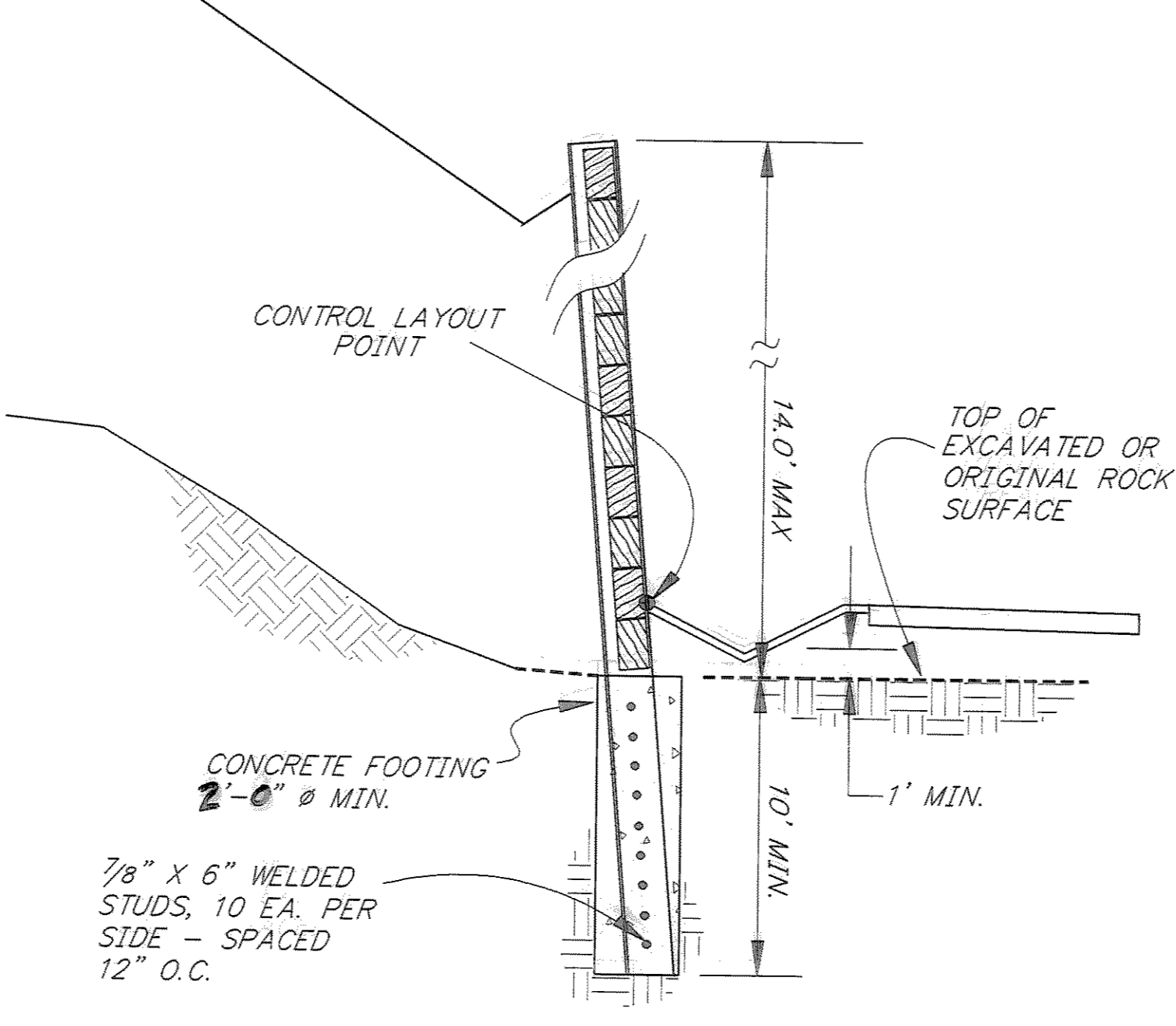


TYPICAL FOOTING ANCHORED PILE CONDITION

NO SCALE

WALL 2 TYPICAL SECTION CANTILEVERED PILE CONDITION

NO SCALE
SEE TYPICAL SECTION @ UPPER LEFT FOR CONDITIONS BEHIND WALL



CONCRETE CONTROL BLOCK DETAIL

NO SCALE - TYP. @ EACH GROUND ANCHOR

PATH: P: \JNU\70134\DR\ -RWDET1		
PLOT: P: \-LIB\ -PLOT\ PLOT.PCP(30) OR PLOT.PCP(60)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

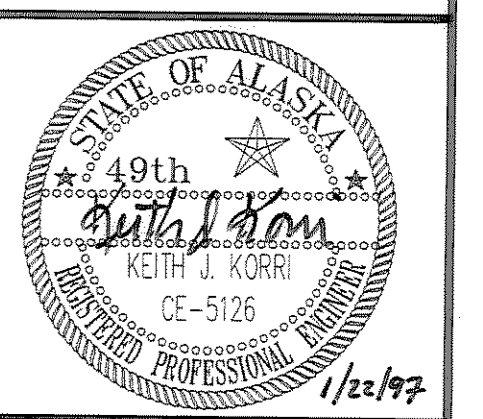
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

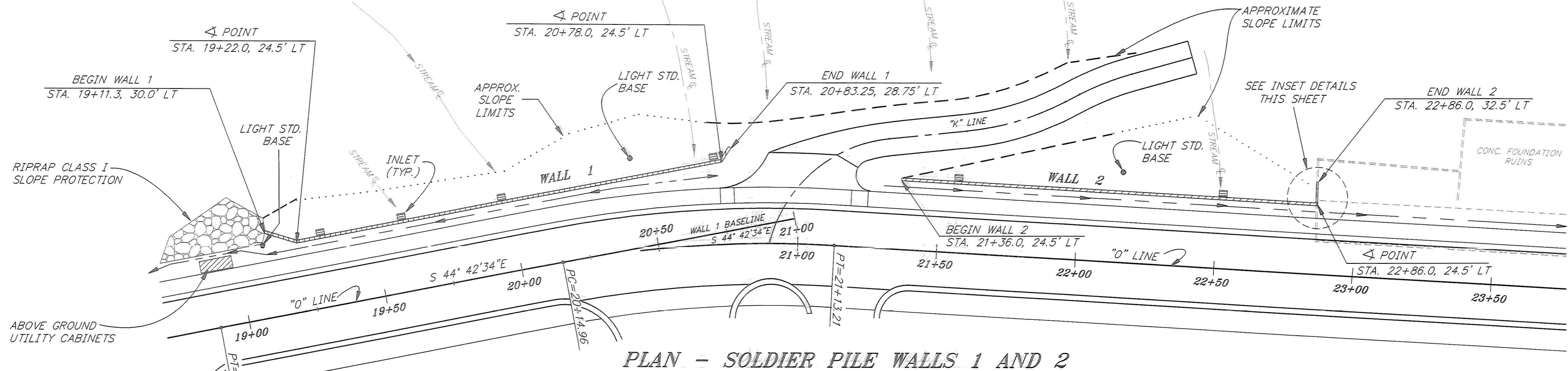
JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
SOLDIER PILE
RETAINING WALL DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: K. KORRI	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: Feb. 1997
CHECKED BY: A. STEININGER	SHEET 37 OF 59

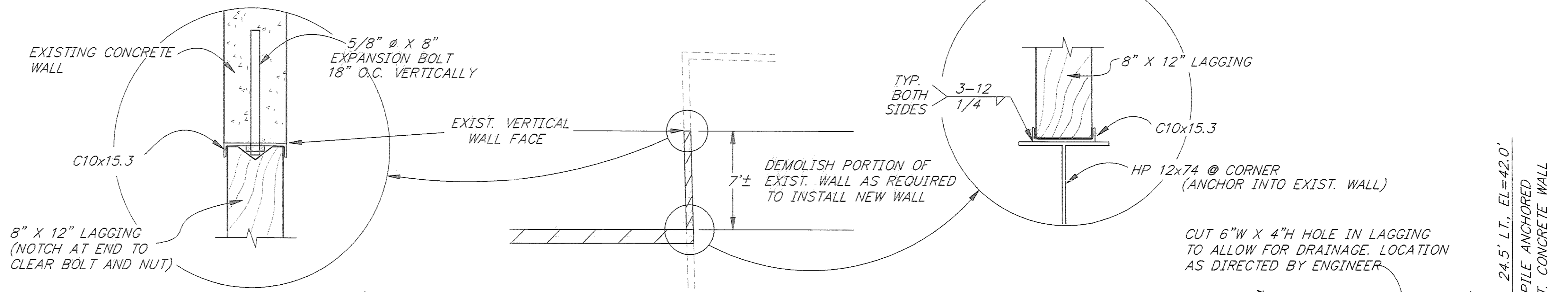




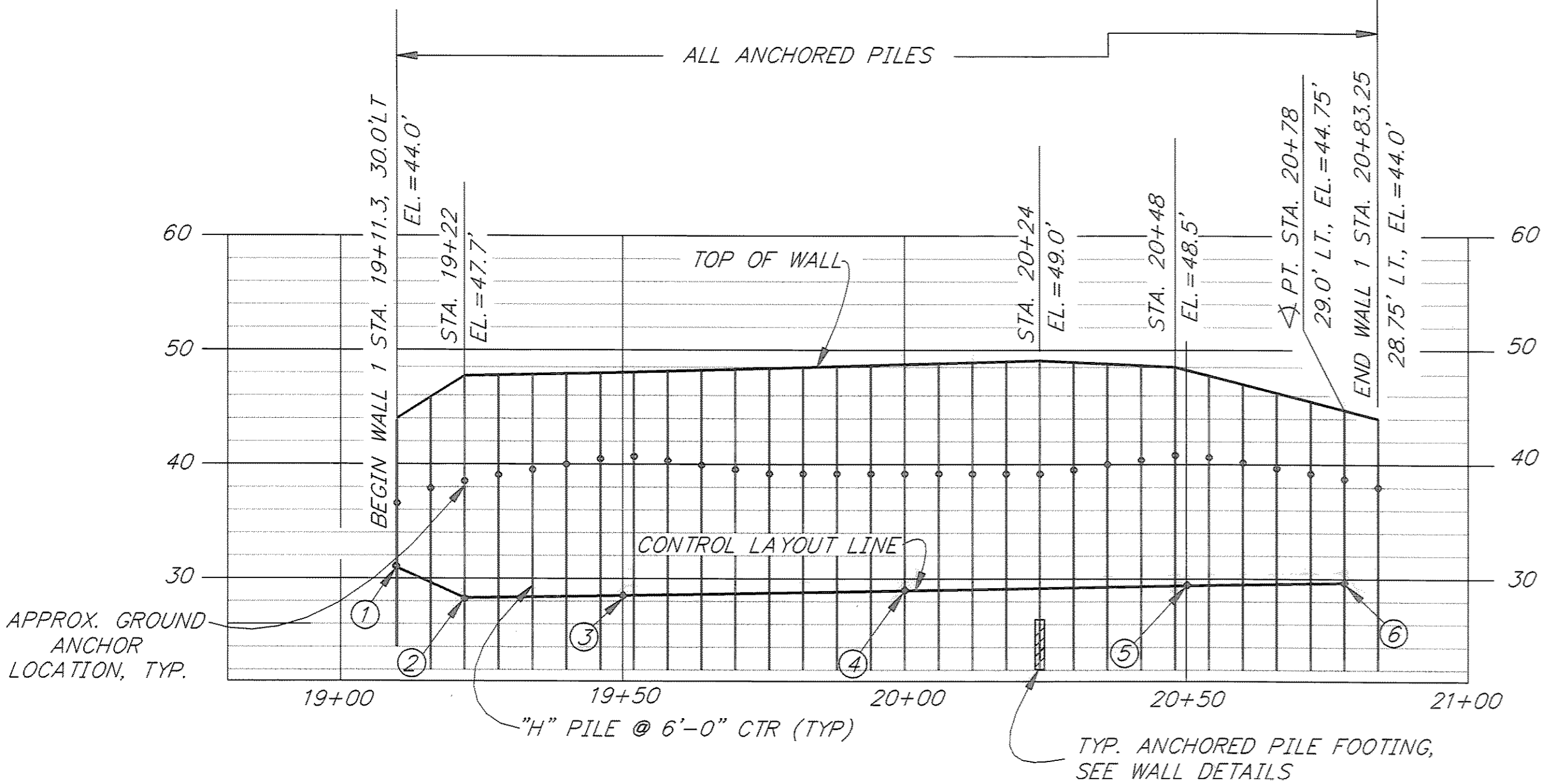
PLAN - SOLDIER PILE WALLS 1 AND 2

NOTES:

1. HORIZONTAL & VERTICAL LAYOUTS OF WALLS ARE SUBJECT TO MINOR FIELD ADJUSTMENTS
2. BOTTOM OF H-PILES INDICATED ON PROFILES ARE APPROXIMATE ONLY. ACTUAL LENGTH WILL VARY BASED ON ACTUAL EXCAVATED ROCK PROFILE AND OVERBREAK.

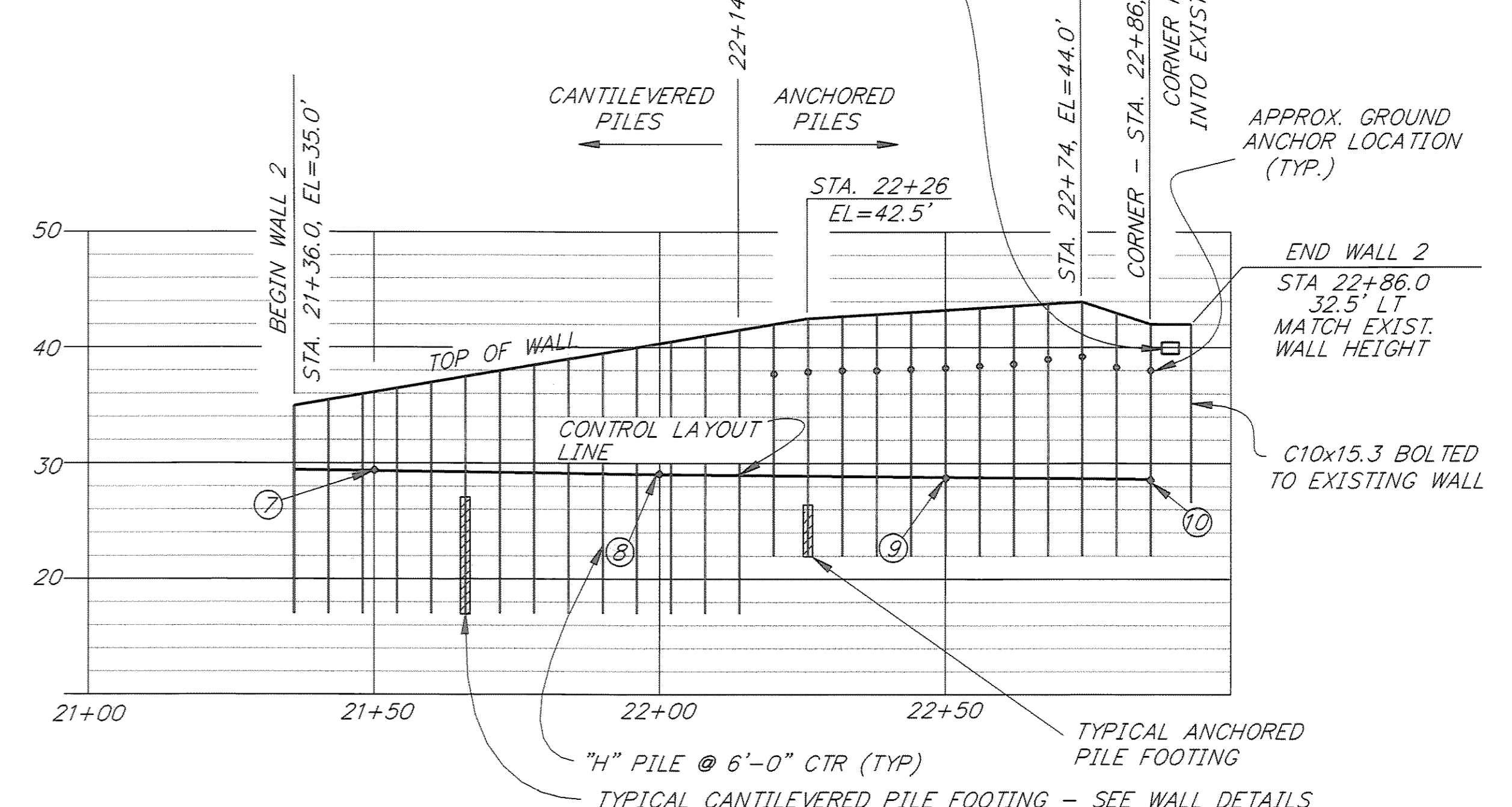


INSET DETAILS



PROFILE - WALL 1

CONTROL LAYOUT LINE POINTS			
POINT	STATION	OFFSET	ELEVATION
1	19+11.3	30.0' LT	30.93 FT
2	19+22	24.5' LT	28.27 FT
3	19+50	24.5' LT	28.50 FT
4	20+00	24.5' LT	28.92 FT
5	20+50	24.5' LT	29.39 FT
6	20+78	24.5' LT	29.50 FT
7	21+50	24.5' LT	29.34 FT
8	22+00	24.5' LT	29.01 FT
9	22+50	24.5' LT	28.78 FT
10	22+86	24.5' LT	28.76 FT



PROFILE - WALL 2

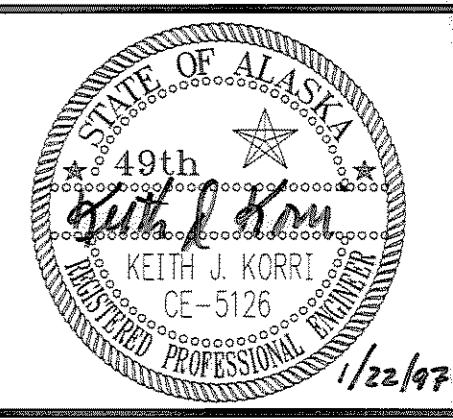
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

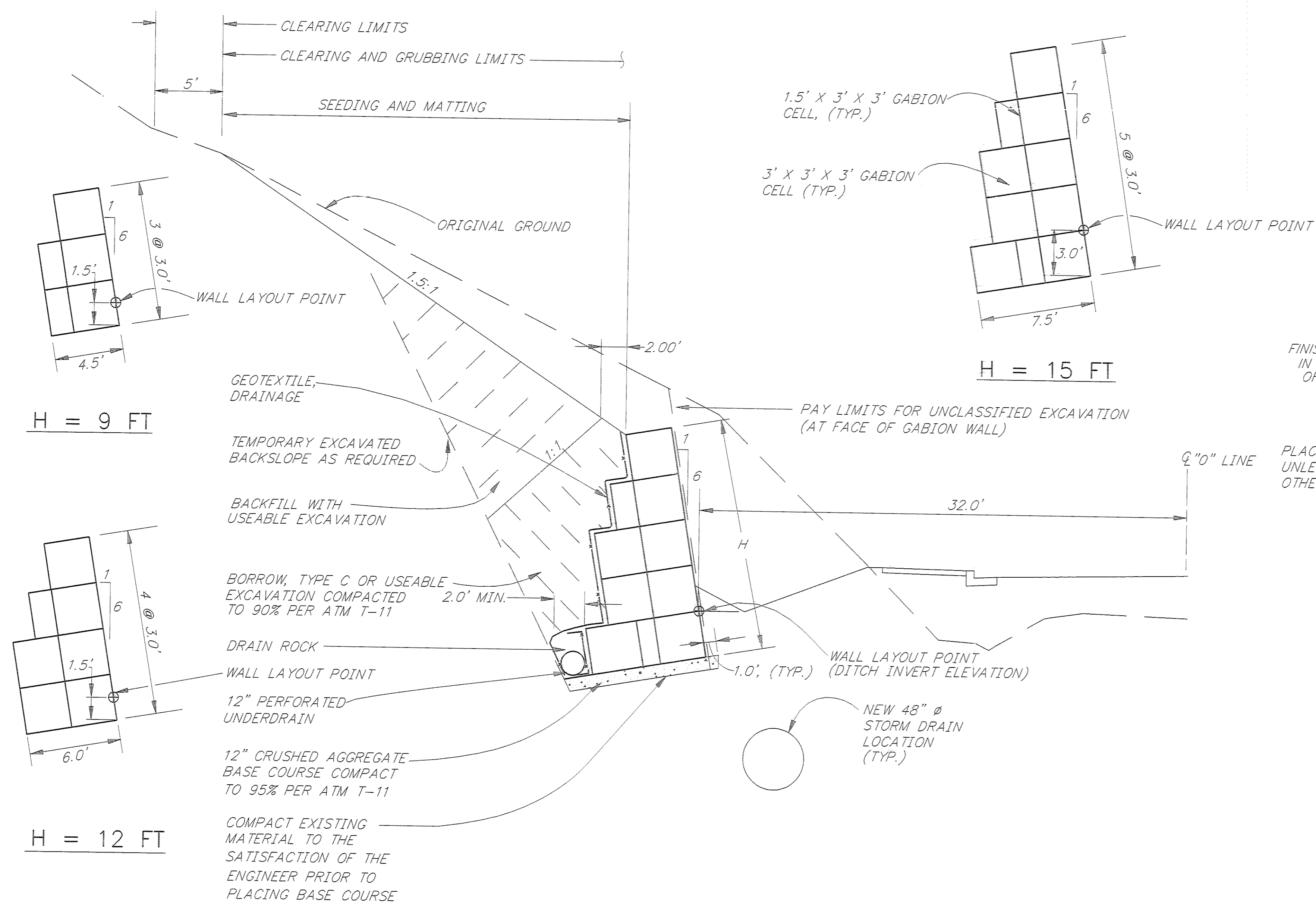
PATH: P:\JNU\70134\DR\WALL		
PLOT: P:\-LIB\-PLOT\PL07.PCP(1) OR PL08.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

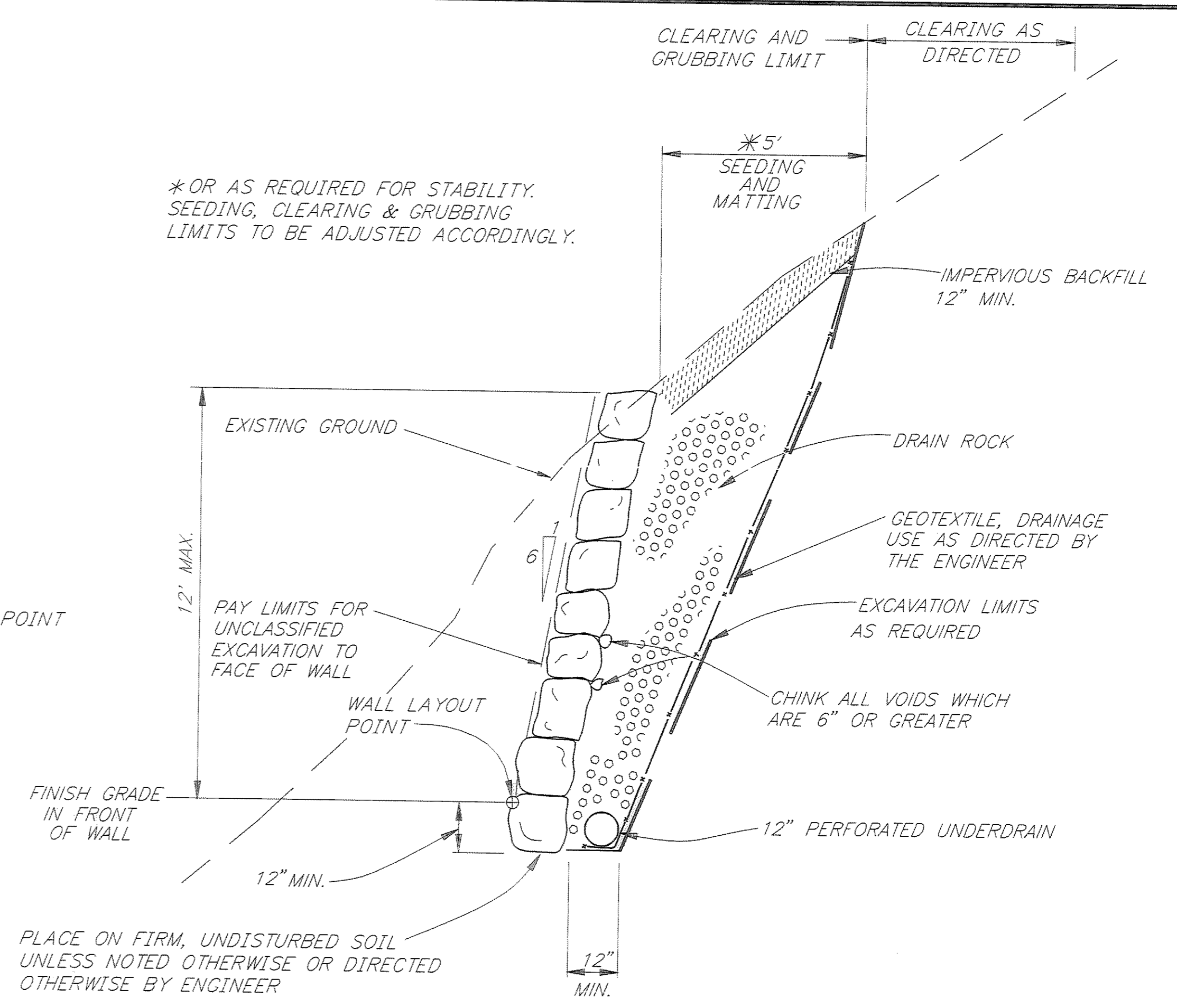
JUNEAU
THANE ROAD
RECONSTRUCTION
STP-F-M-0936(1) ~ PROJECT NO. 70134
SOLDIER PILE RETAINING WALLS

DESIGNED BY: K. KORRI	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: Feb. 1997
CHECKED BY: A.J. STEININGER	SHEET 38 OF 59





GABION WALL TYPICAL SECTIONS



THE ROCKERY SHALL BE CONSTRUCTED OF ROCKS WHICH CONFORM TO THE FOLLOWING TABLE:

	LEAST DIMENSION	MINIMUM WEIGHT
TOP 3 FT. OF WALL	13" TO 18"	500 LBS.
3 TO 6 FT. FROM TOP OF WALL	18" TO 24"	1500 LBS.
6 TO 9 FT. FROM TOP OF WALL	24" TO 32"	3500 LBS.
9 TO 12 FT. FROM TOP OF WALL	30" TO 38"	6000 LBS.

TYPICAL ROCKERY WALL

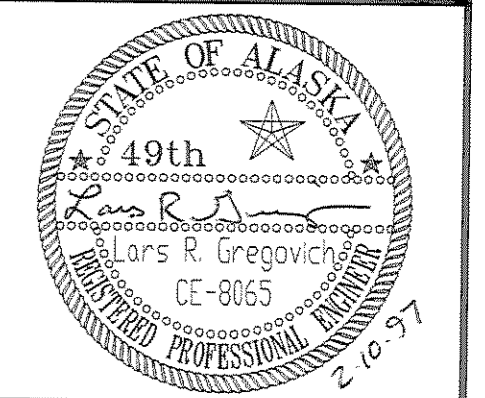
PATH: P:\JNU\70134\DR\WALLPLN		
PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

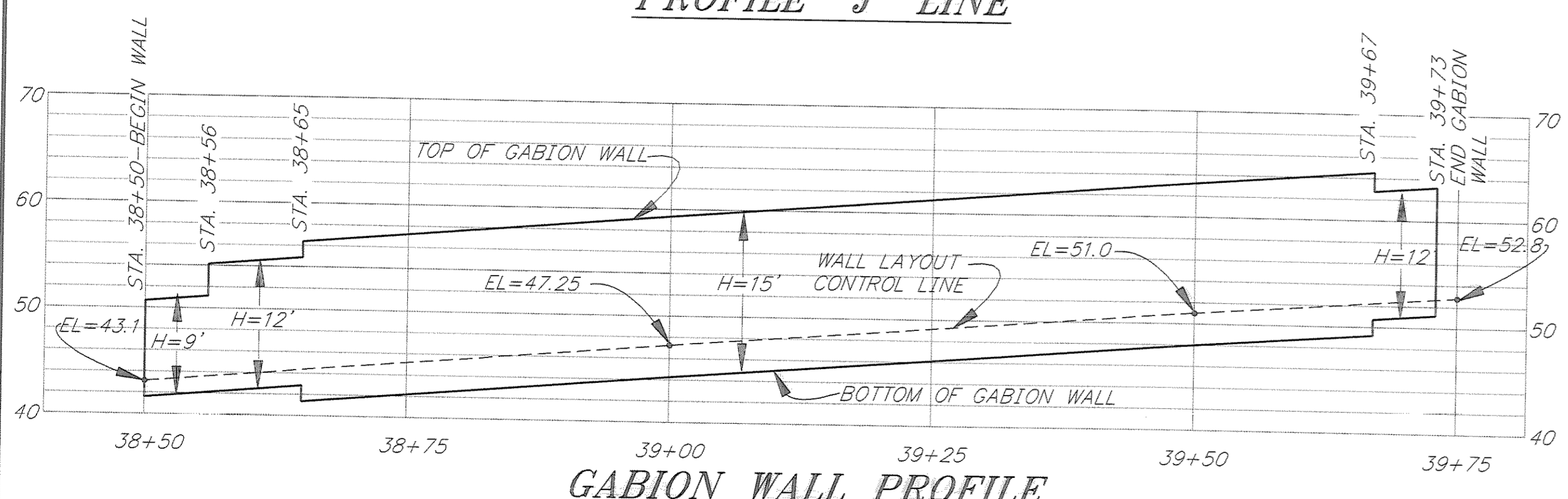
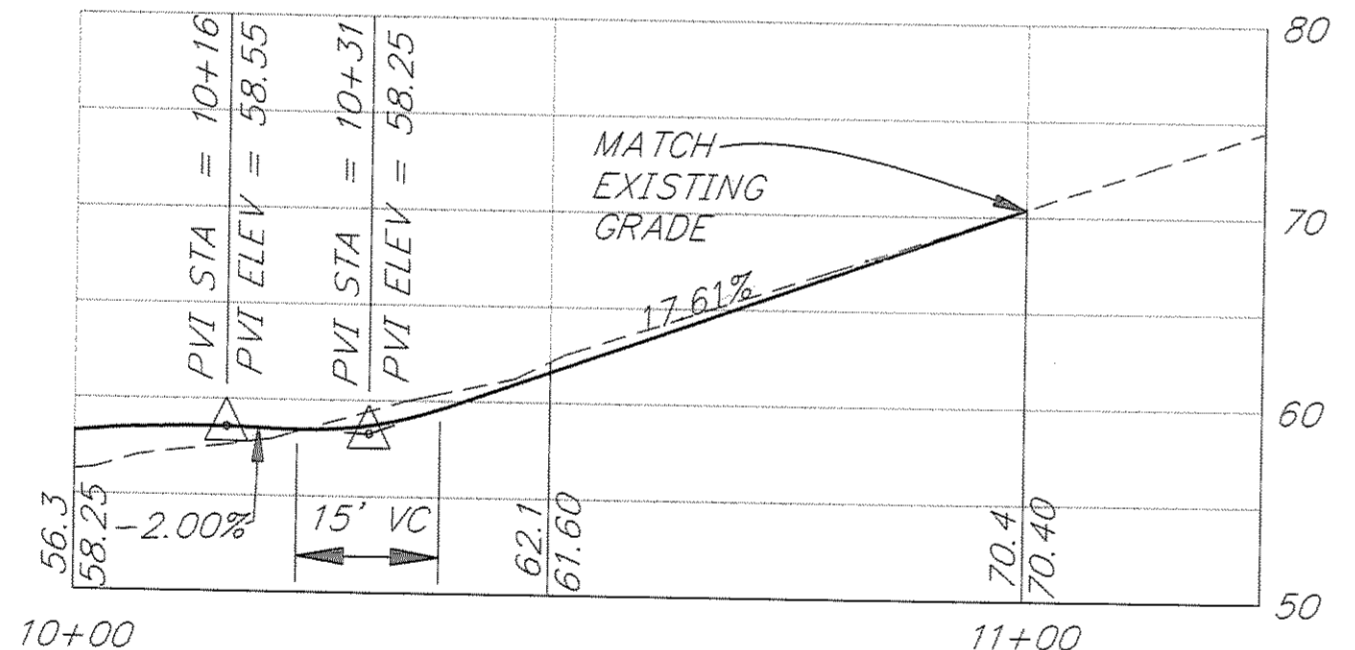
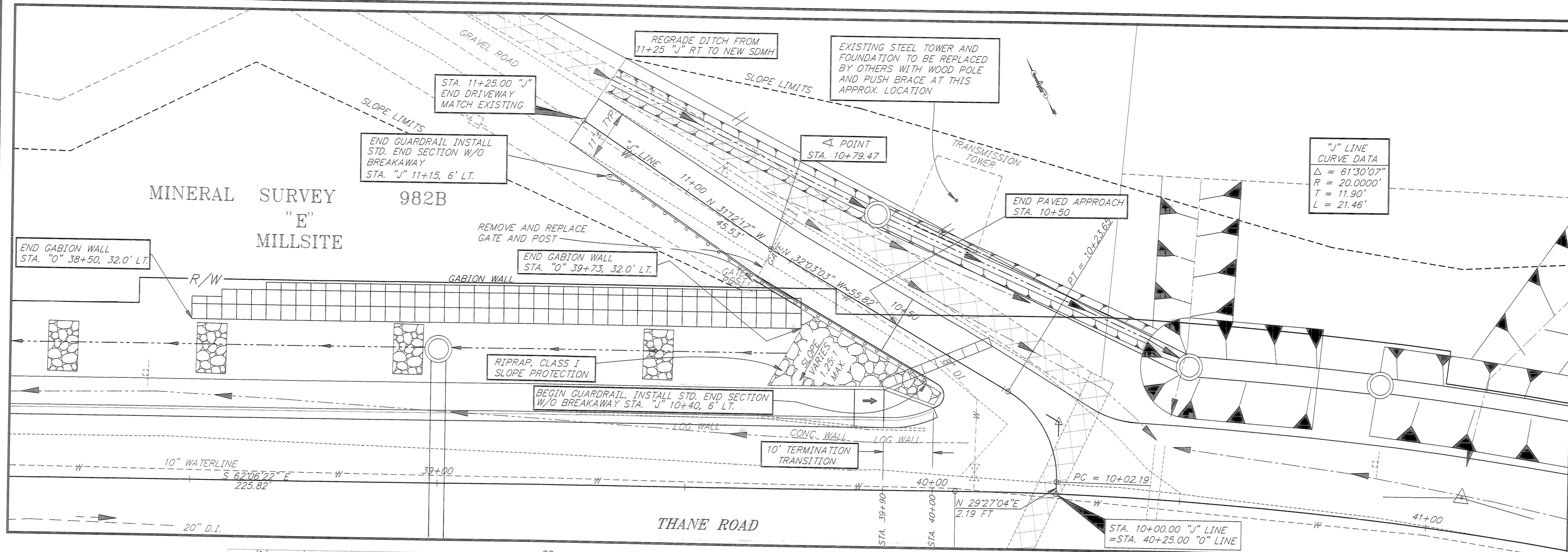
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
**GABION AND ROCKERY WALL PLANS
 AND DETAILS**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

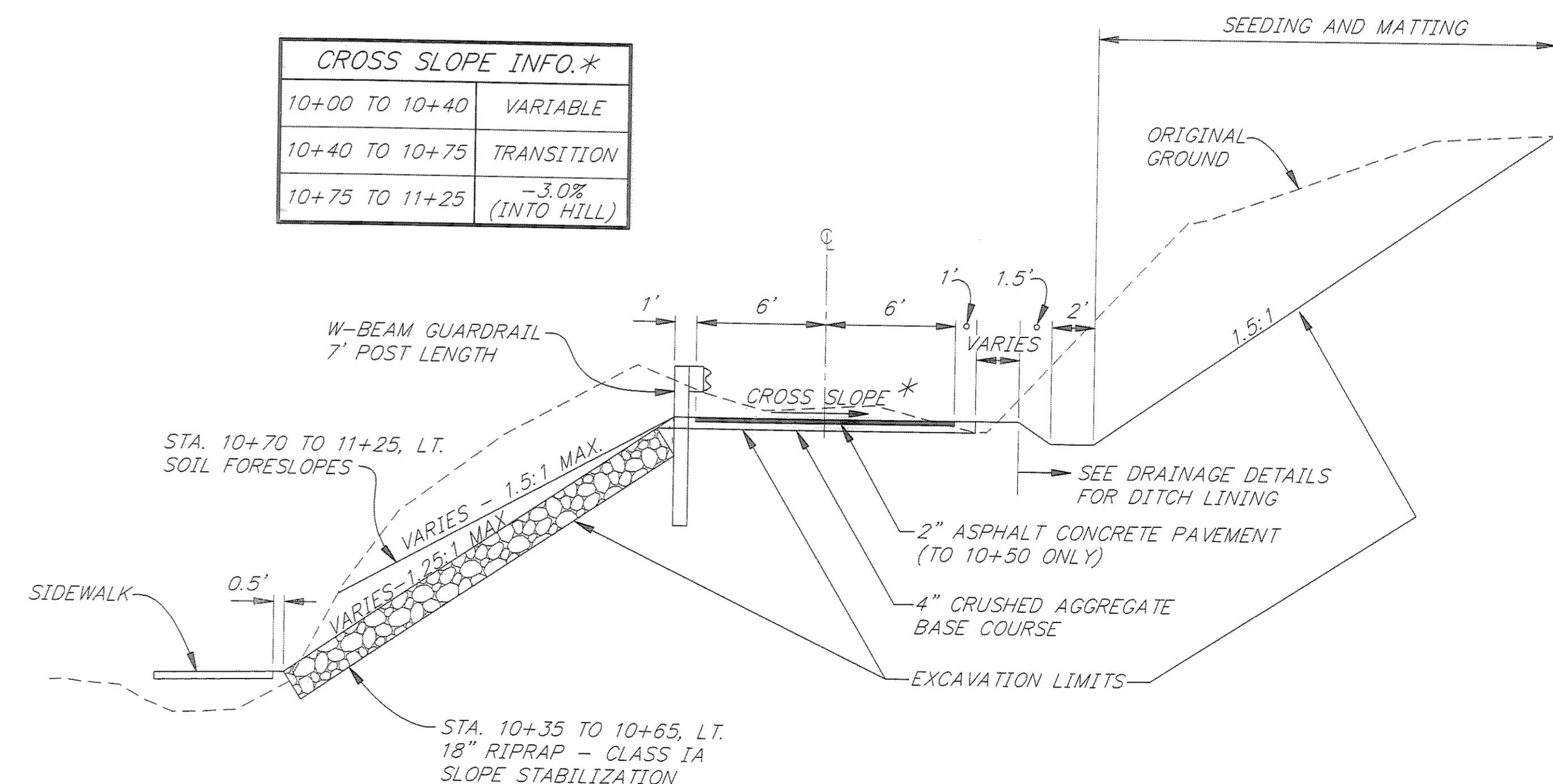
DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: A STEININGER	SHEET 39 OF 59





CROSS SLOPE INFO.*

10+00 TO 10+40	VARIABLE
10+40 TO 10+75	TRANSITION
10+75 TO 11+25	-3.0% (INTO HILL)



RECORD OF REVISIONS

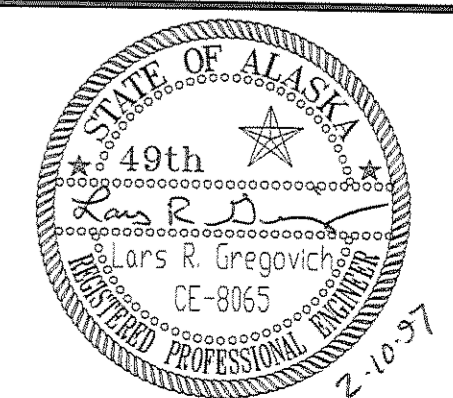
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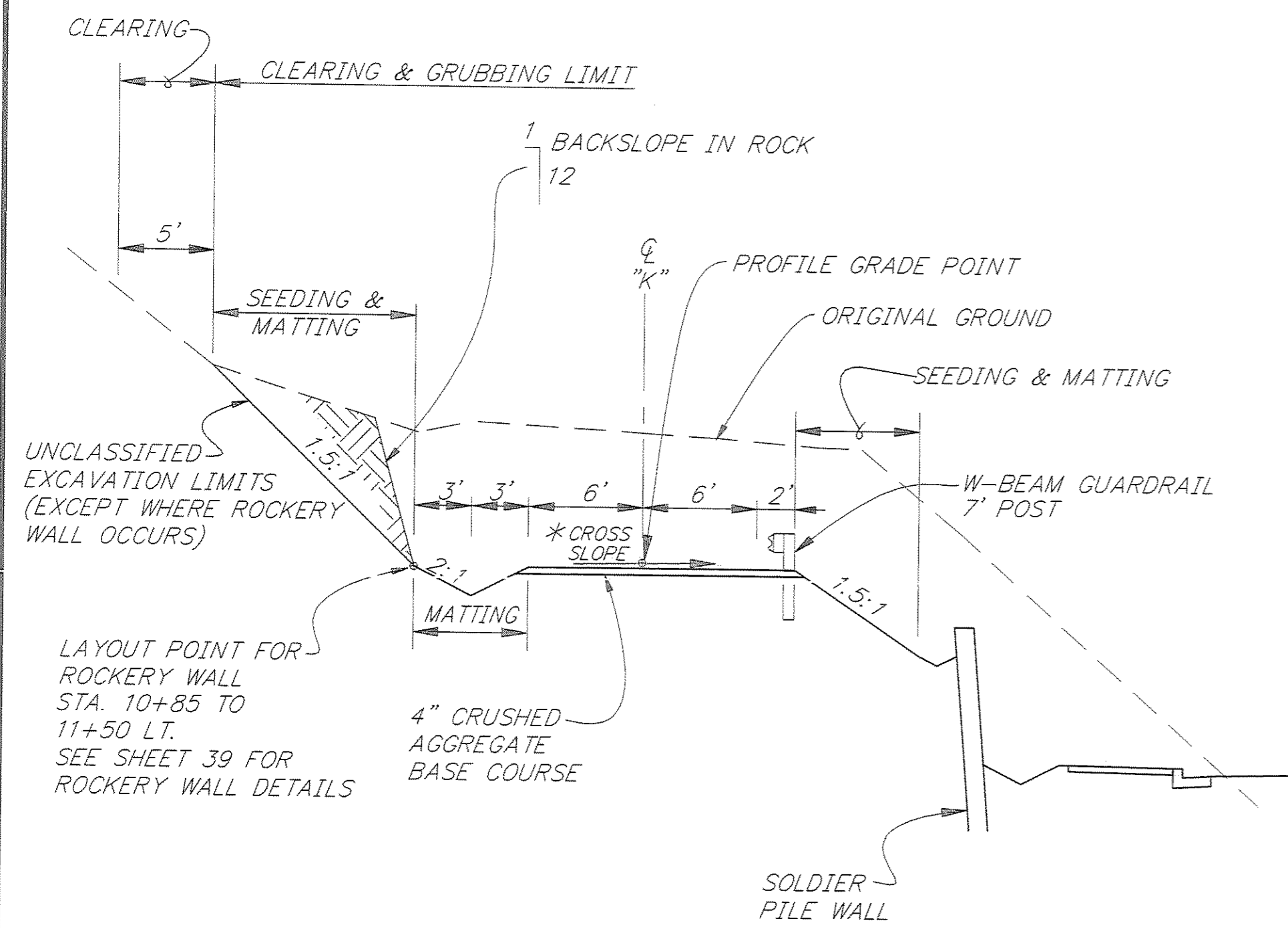
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
**GABION WALL AND DRIVEWAY
 PLAN AND PROFILES**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

ALASKA	DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
	DRAWN BY: W. HICKOK	DATE: FEB. 1997
	CHECKED BY: A. STEININGER	SHEET 40 OF 59



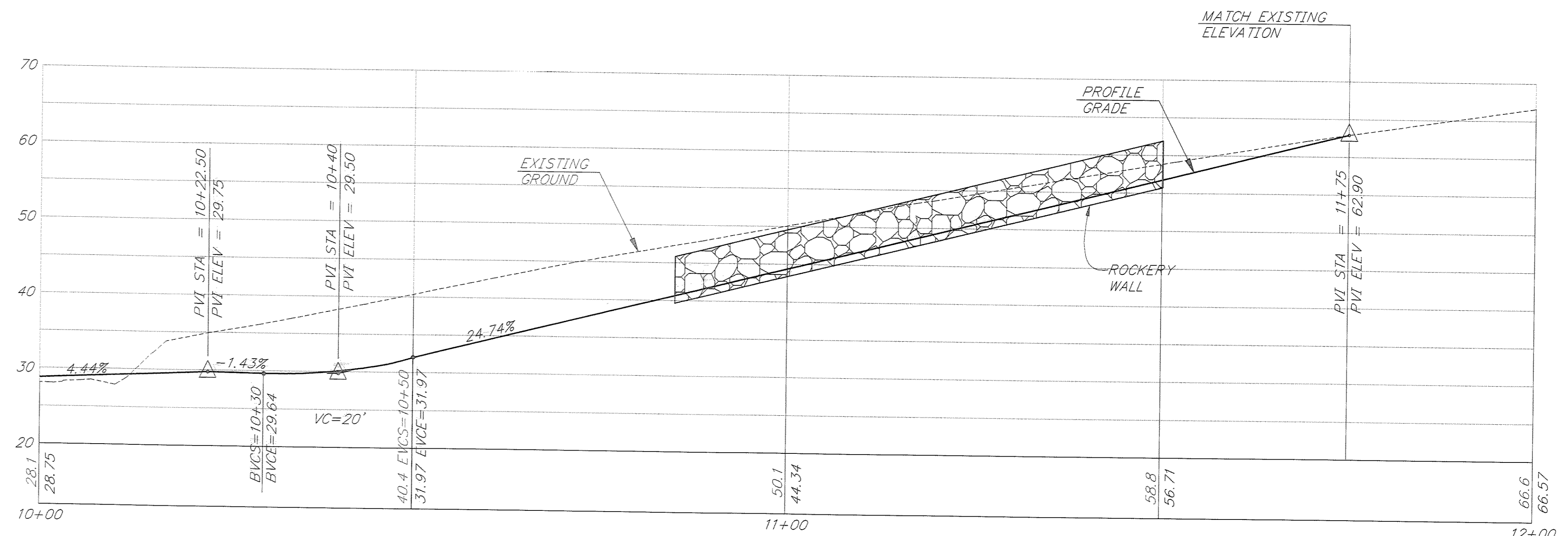
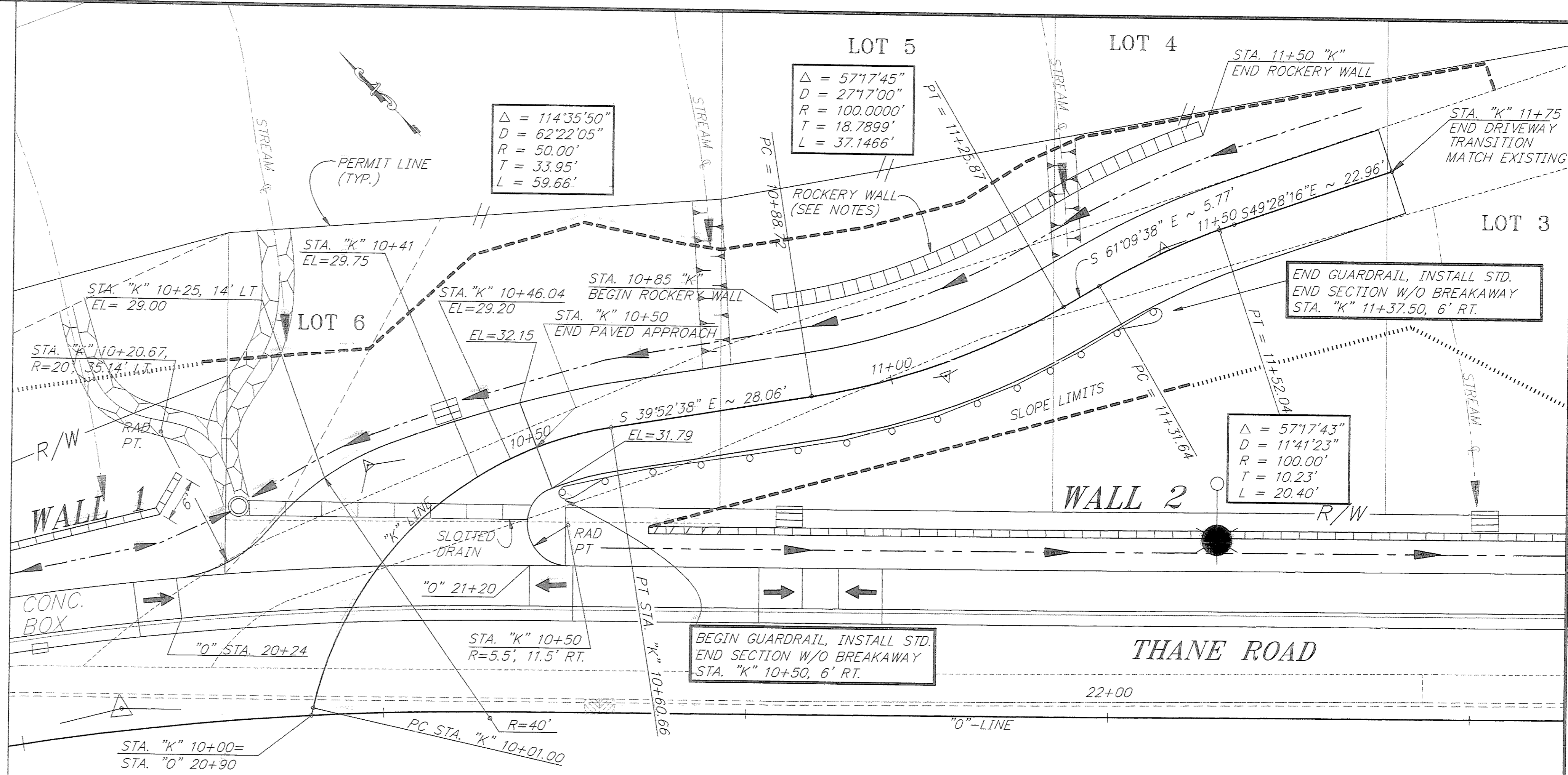


TYPICAL SECTION "K" LINE

- * CROSS SLOPES
- STA. 10+20 TO 10+40 "K"
USE SPOT ELEVATIONS
 - STA. 10+40 TO 10+89
-0.03
 - STA. 10+89 TO 11+26
TRANSITION
 - STA. 11+26 TO 11+75
+0.03

NOTES:

1. UPON REVIEW BY THE REGIONAL GEOLOGIST AND THE ENGINEER, MODIFICATIONS TO THE ROCKERY WALL FROM STA. 10+85 TO 11+50 LT. MAY BE MADE.



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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

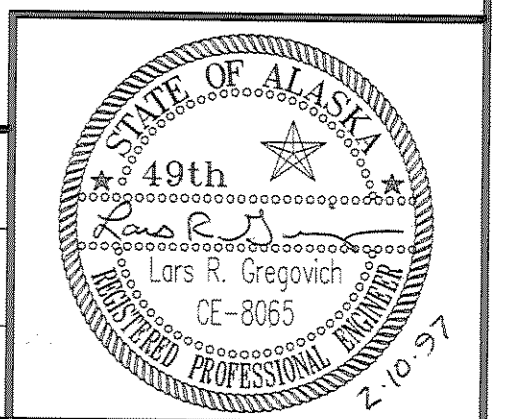
JUNEAU

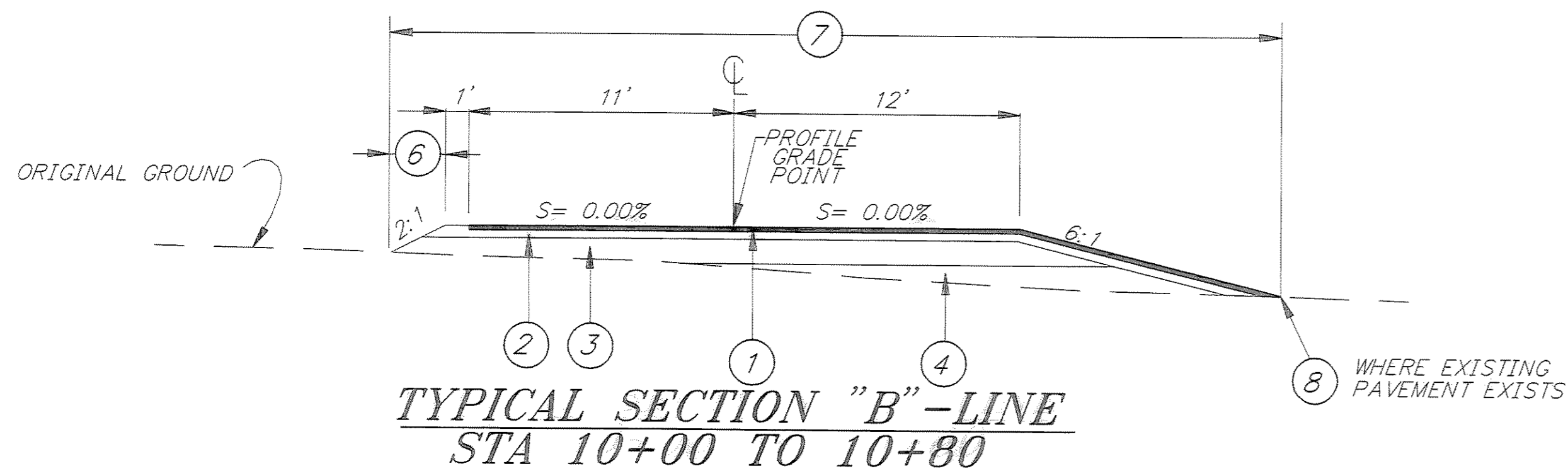
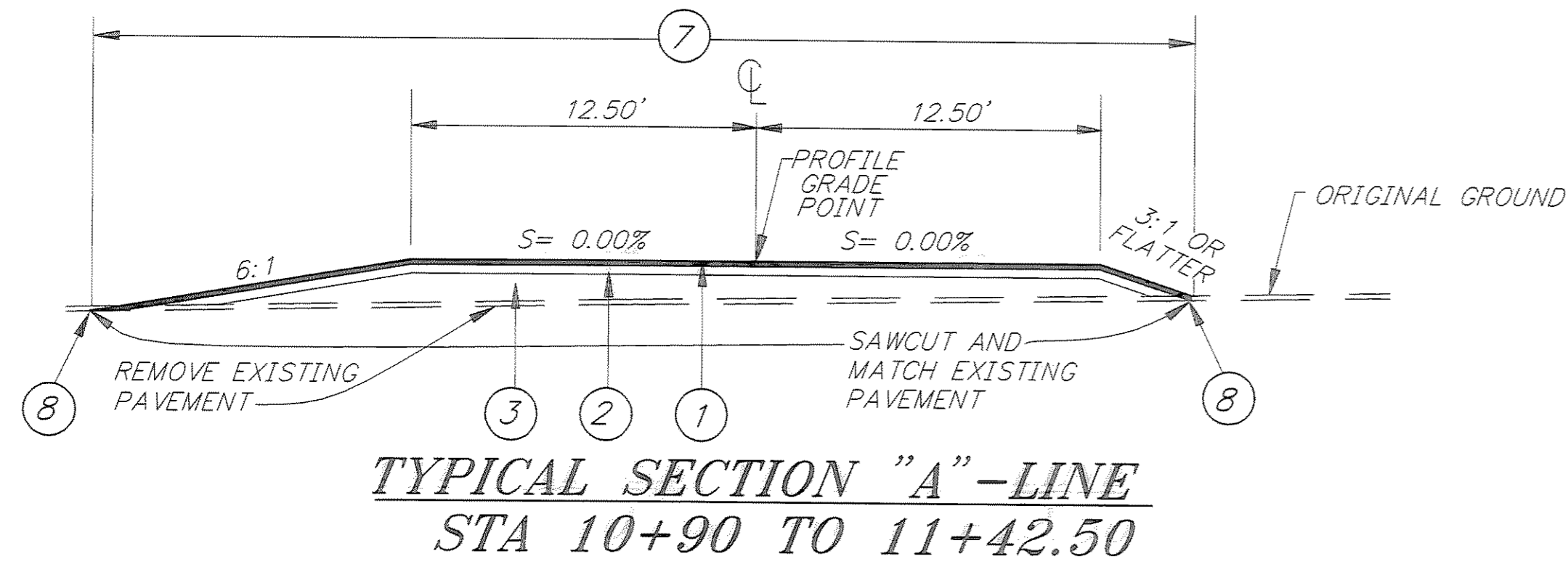
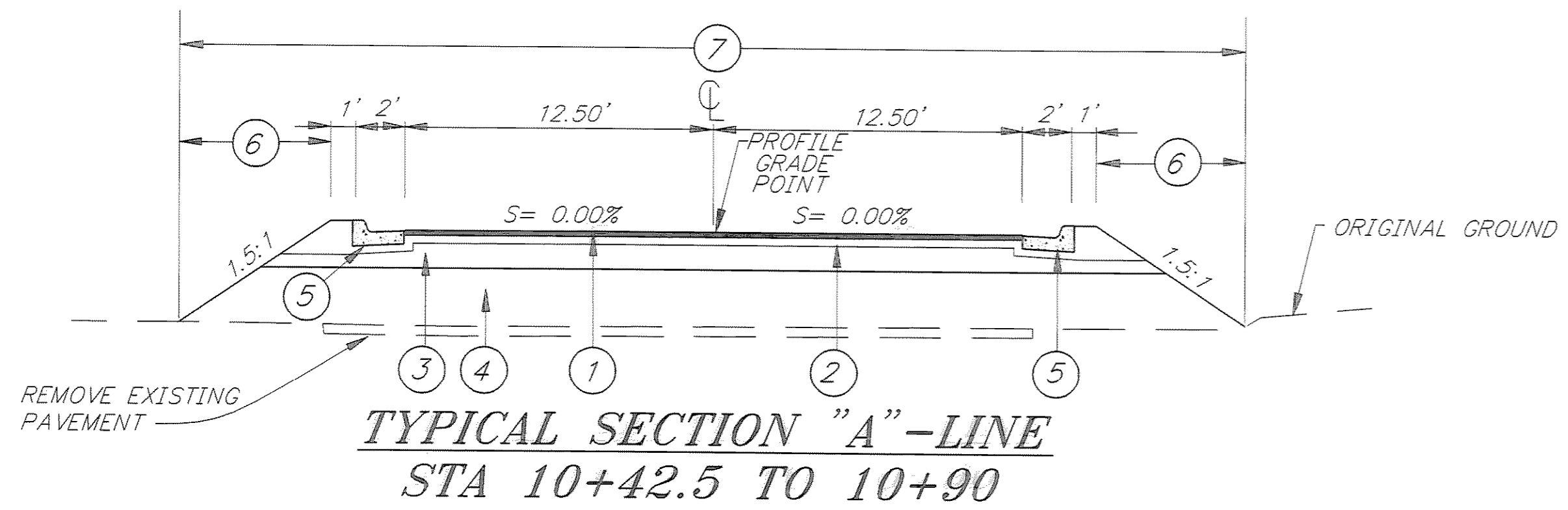
THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ 70134

APPROACH DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K. KLEMMETSON	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 41 OF 59





LEGEND

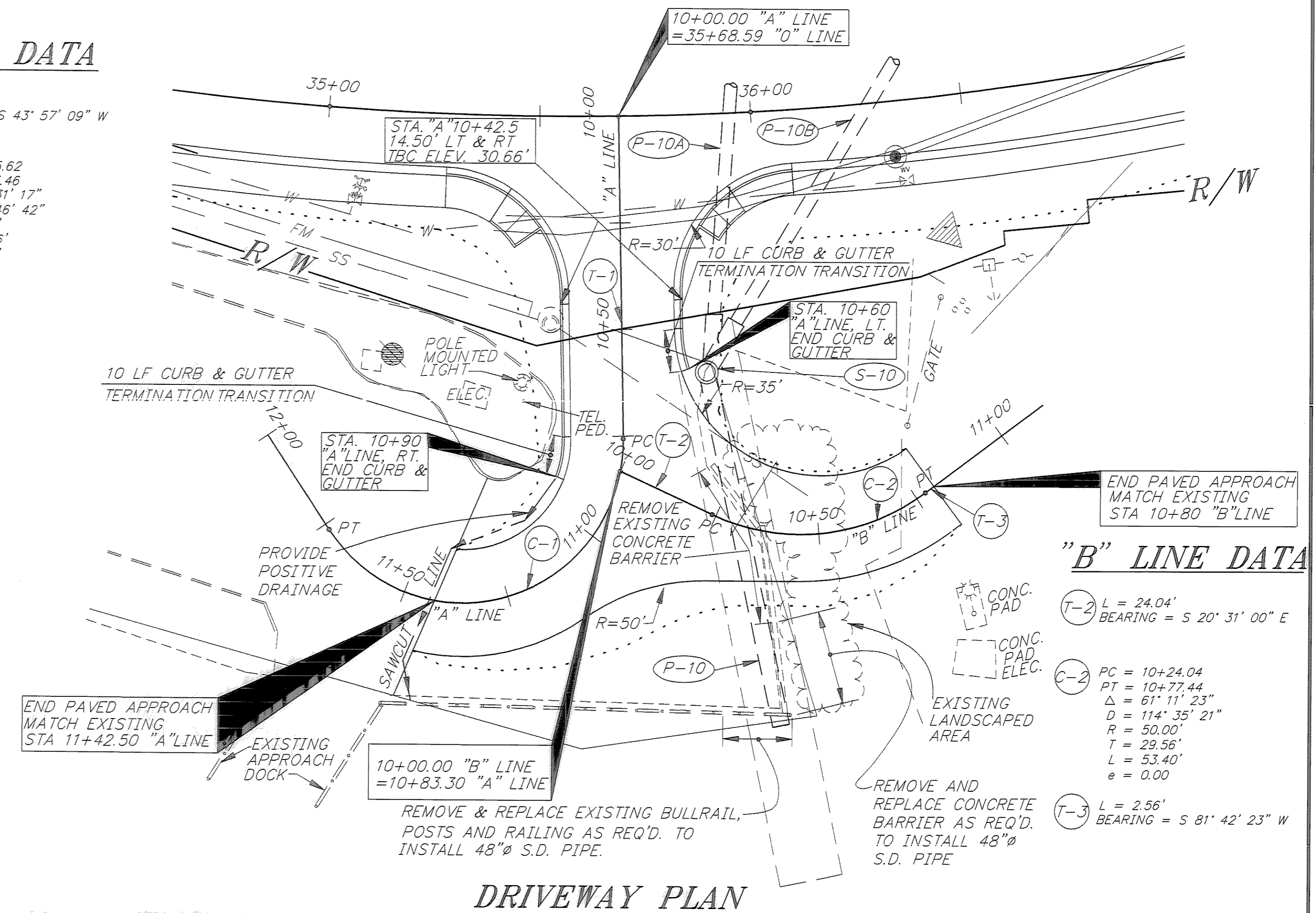
- ① 2" ASPHALT CONCRETE PAVEMENT
- ② 4" CRUSHED AGGREGATE BASE COURSE
- ③ 12" SUBBASE, GRADING "E"
- ④ BORROW, TYPE "C" OR USEABLE EXCAVATION
- ⑤ CURB & GUTTER, TYPE I
- ⑥ SEEDING & MATTING
- ⑦ CLEARING & GRUBBING
- ⑧ SAWCUT AND MATCH EXISTING PAVEMENT

NOTES

1. CROSS SLOPE FROM STA. 10+12.5 TO STA. 10+42.5 "A" LINE SHALL TRANSITION TO MATCH "O" LINE EDGE OF PAVEMENT GRADE.
2. (X-XX) ELLIPTICAL CALLOUT BUBBLES REFER TO STORM DRAINAGE PIPE AND STRUCTURES. REFER TO STORM DRAINAGE PLANS FOR DETAILS.

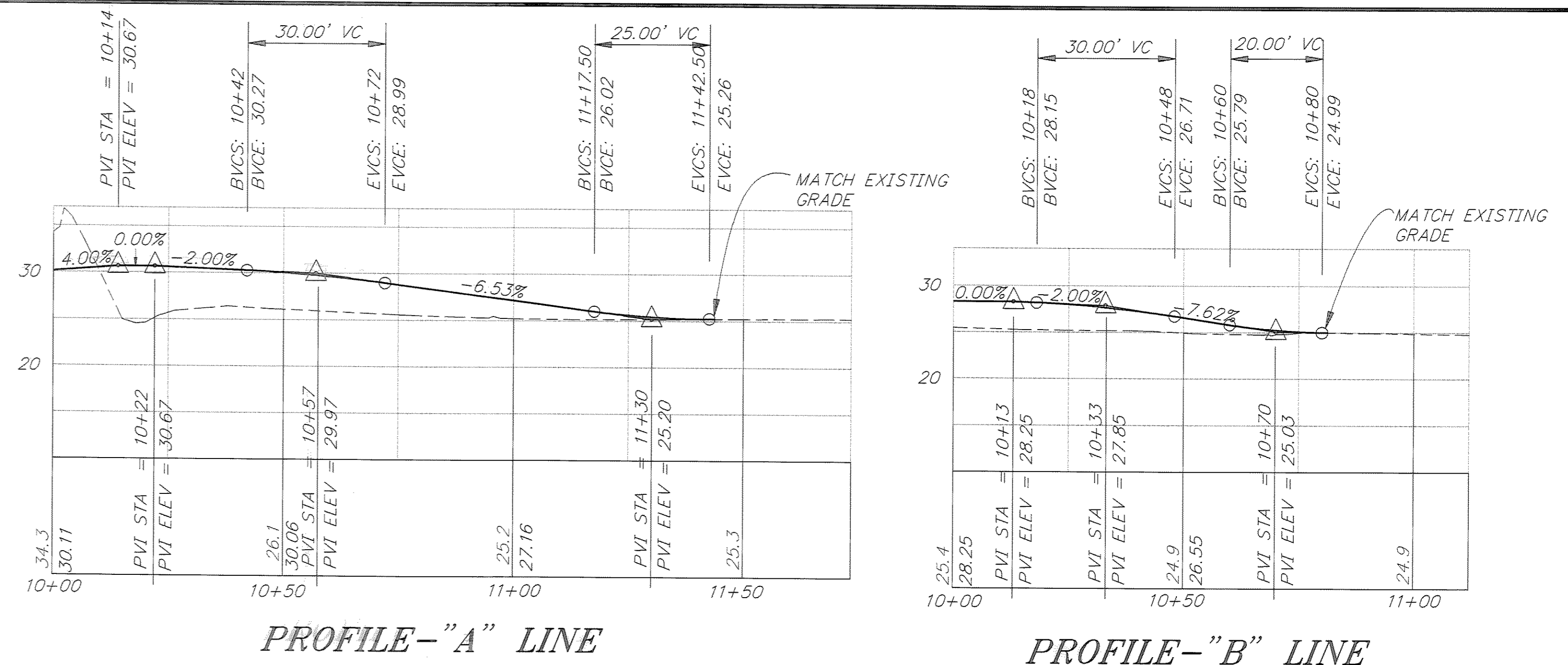
"A" LINE DATA

- (T-1) L = 75.62
BEARING = S 43° 57' 09" W
- (C-1) PC = 10+75.62
PT = 11+73.46
Δ = 147° 31' 17"
D = 150° 46' 42"
R = 38.00'
T = 130.46'
L = 97.84'
e = 0.00



"B" LINE DATA

- (T-2) L = 24.04'
BEARING = S 20° 31' 00" E
- (C-2) PC = 10+24.04
PT = 10+72.44
Δ = 61° 11' 23"
D = 114° 35' 21"
R = 50.00'
T = 29.56'
L = 53.40'
e = 0.00
- (T-3) L = 2.56'
BEARING = S 81° 42' 23" W

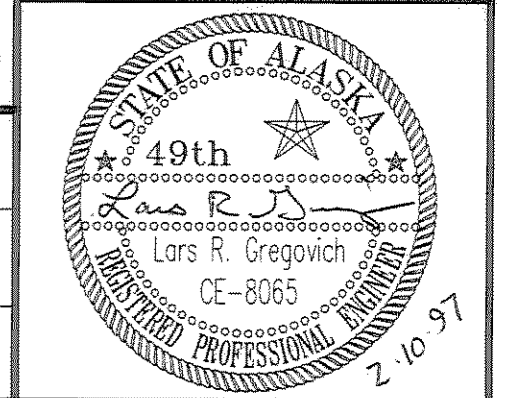


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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

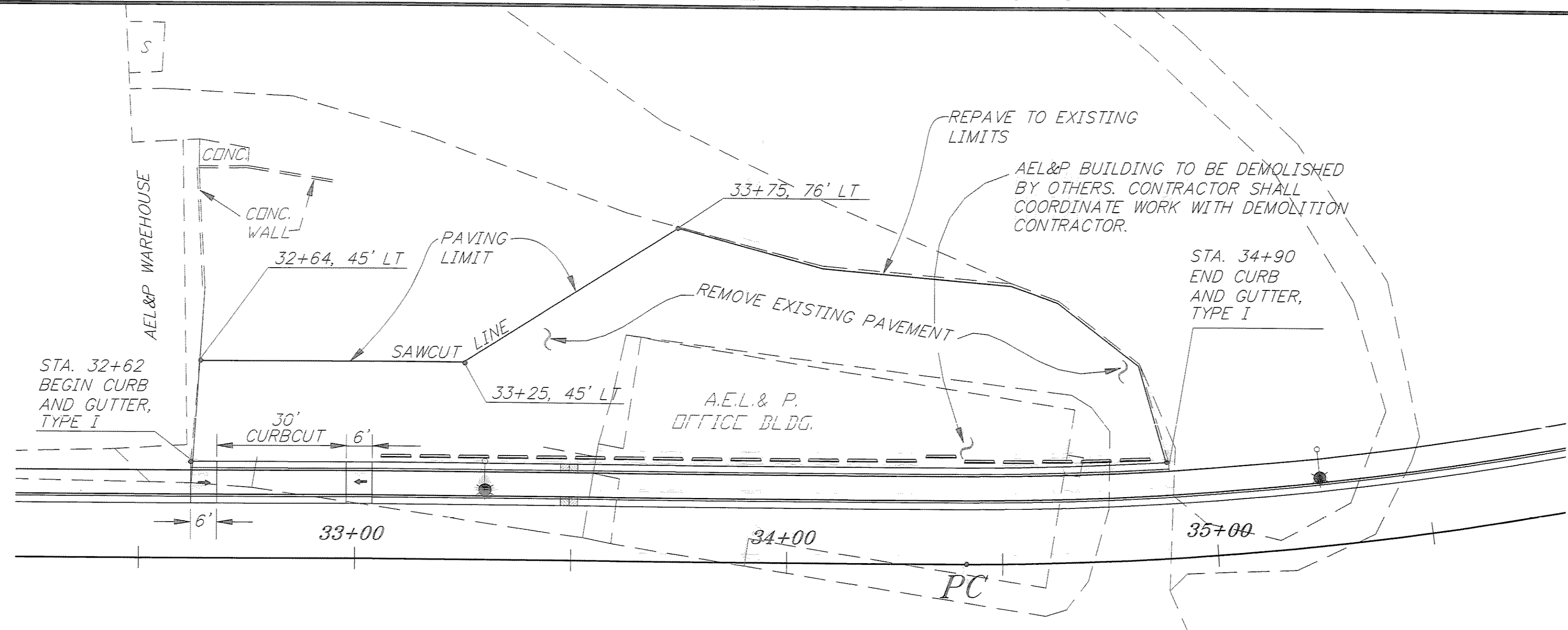
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
ALASKA
APPROACH DETAILS

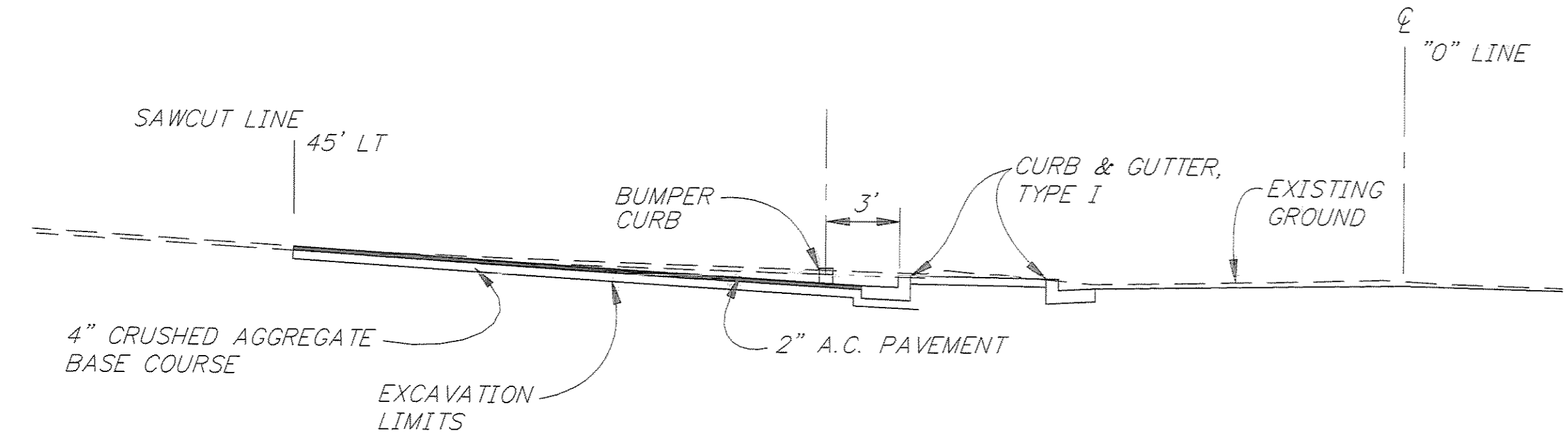
DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: K.K.	DATE: FEB. 1996
CHECKED BY: A. STEININGER	SHEET 42 OF 59



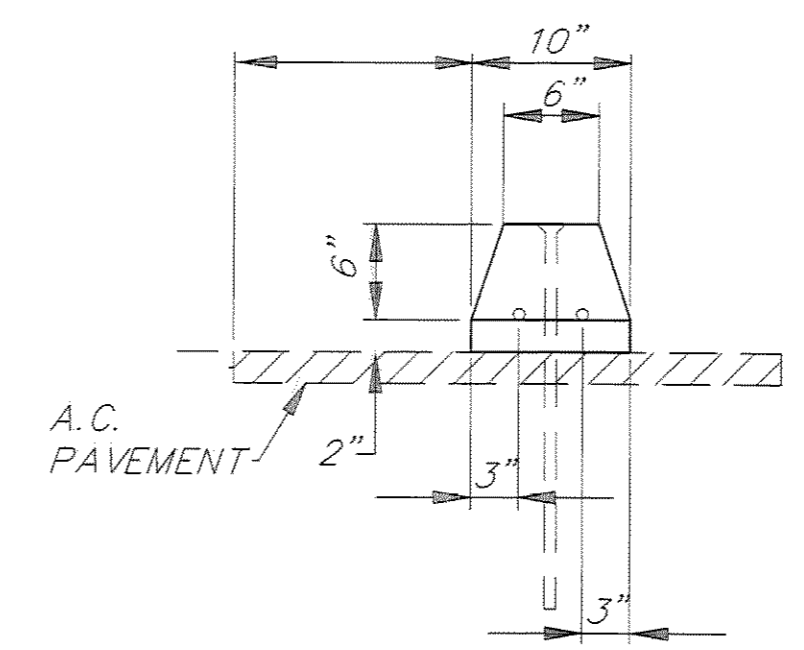
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



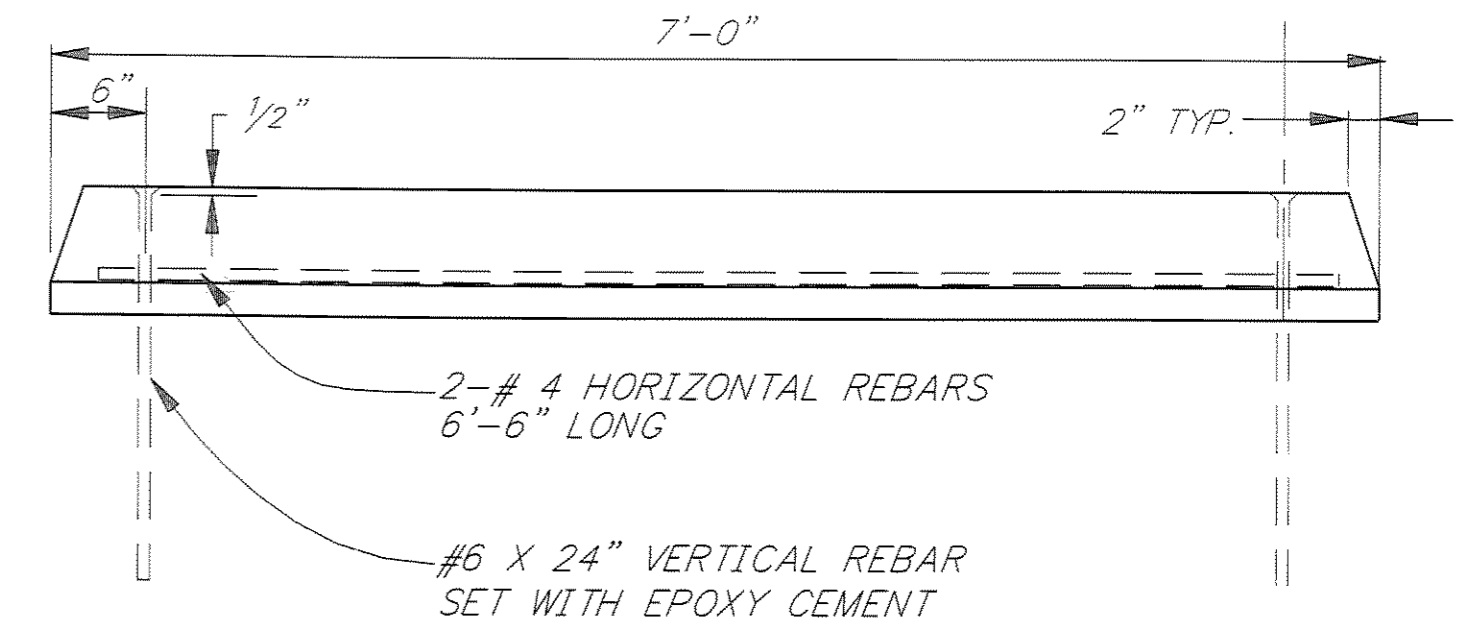
PLAN



SECTION AT STA. 33+00

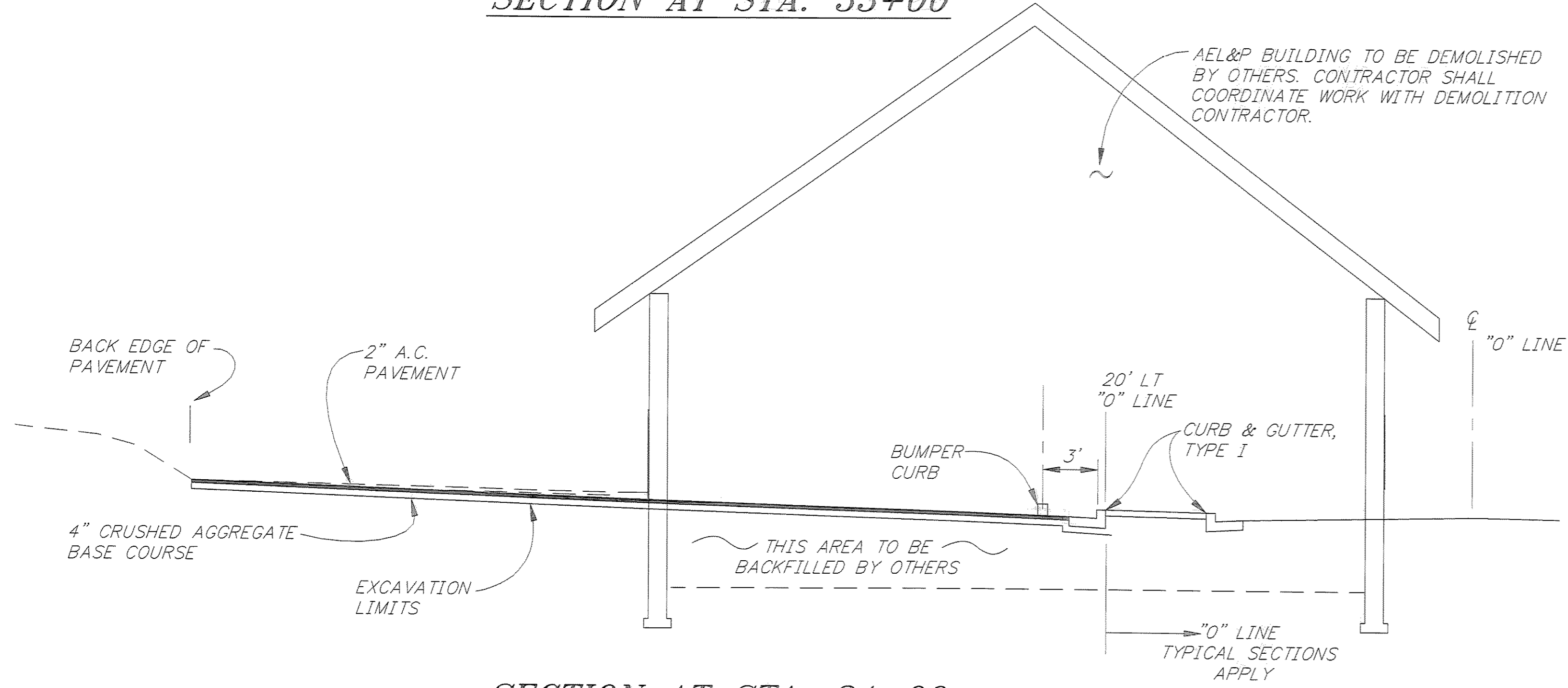


END VIEW



SIDE VIEW

**BUMPER CURB DETAIL
FROM STA. 33+05, 23.5' LT
TO STA. 34+90, 23.5' LT**



SECTION AT STA. 34+00

BUMPER CURB NOTES:

1. BUMPER CURB SHALL BE PLACED TO PREVENT PARKED VEHICLES FROM EXTENDING INTO R.O.W. OR PEDESTRIAN PATH AS PER PLANS OR AS DIRECTED BY THE ENGINEER.
2. BUMPER CURBS SHALL BE PRECAST.
3. EPOXY CEMENT SHALL NOT BE SUBSTITUTED FOR #6 VERTICAL REBAR PIN.
4. LEAVE 2-FOOT GAPS BETWEEN CURB SECTIONS.
5. HOLES FOR REBAR DOWELS SHALL BE 1-INCH DIAMETER. GROUT, CEMENT, OR EPOXY HOLE SHUT AFTER BAR IS IN PLACE.
6. STATIONING REFERENCE IS TO CENTER OF BUMPER CURB.

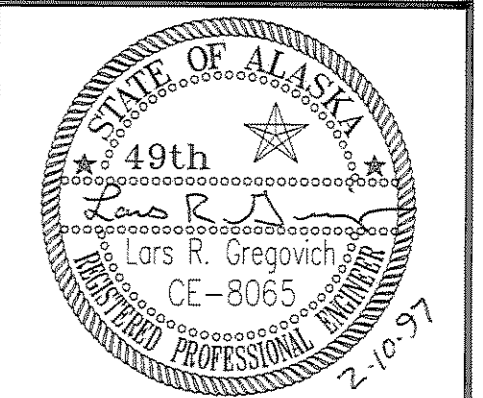
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

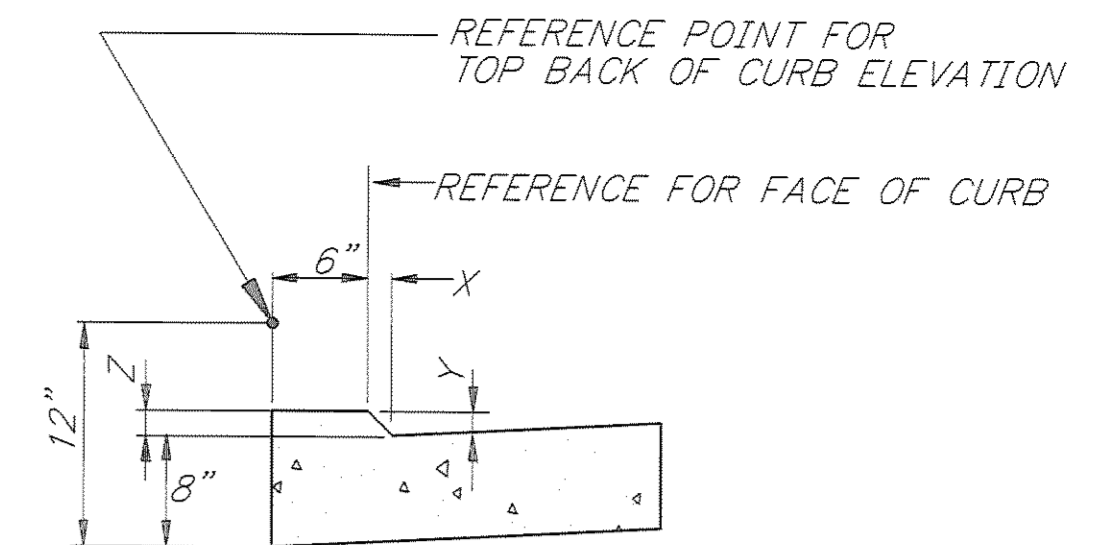
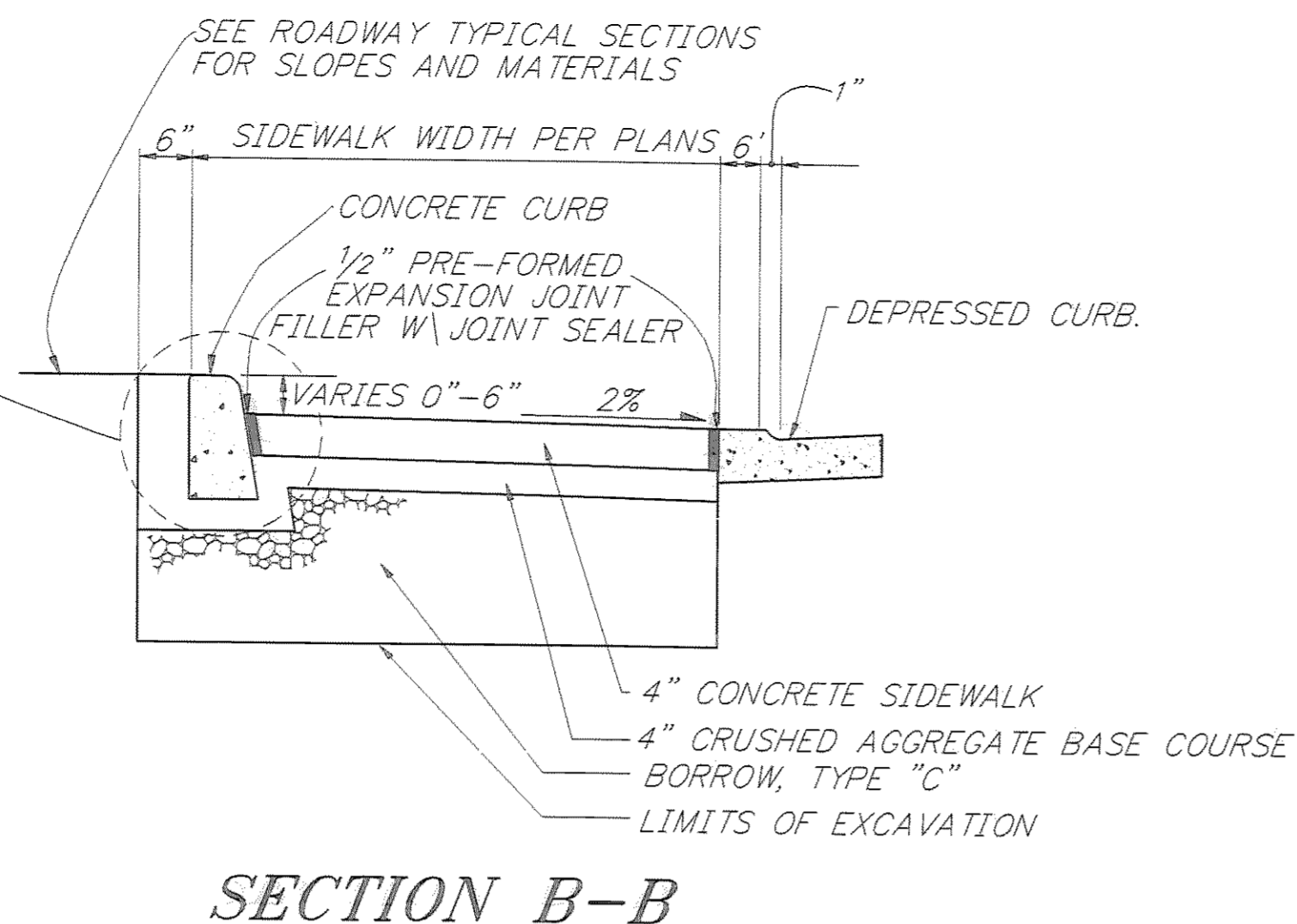
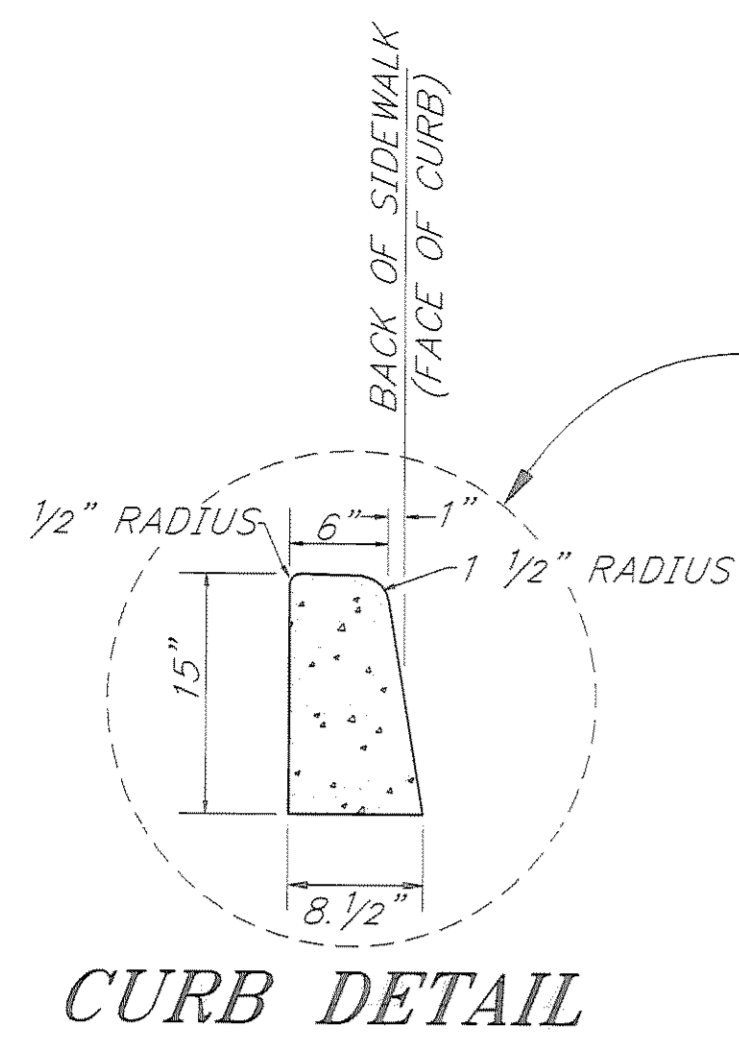
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0962(1) ~ PROJECT NO. 70134
ALASKA
DRIVEWAY PLANS AND DETAILS

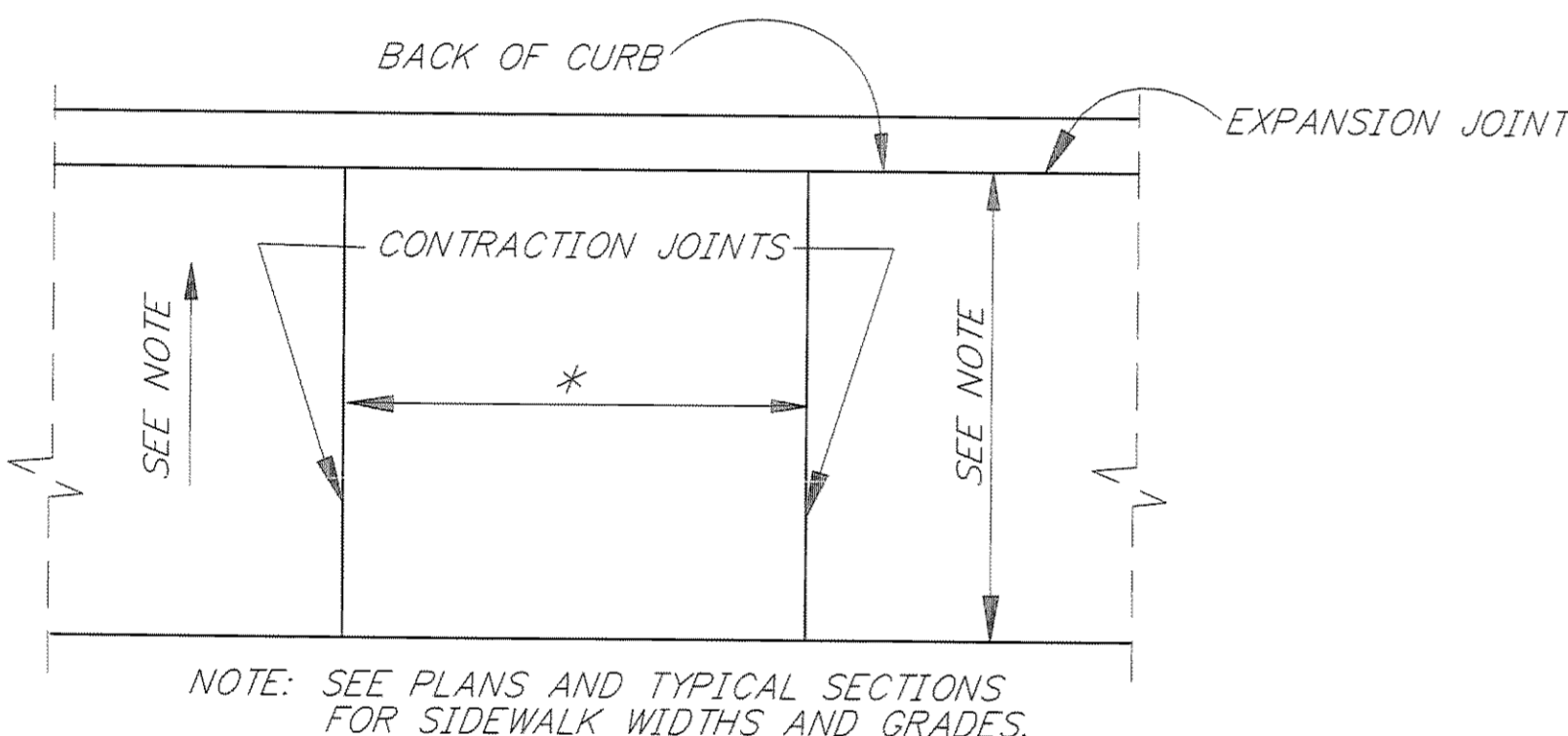
DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 43 OF 59





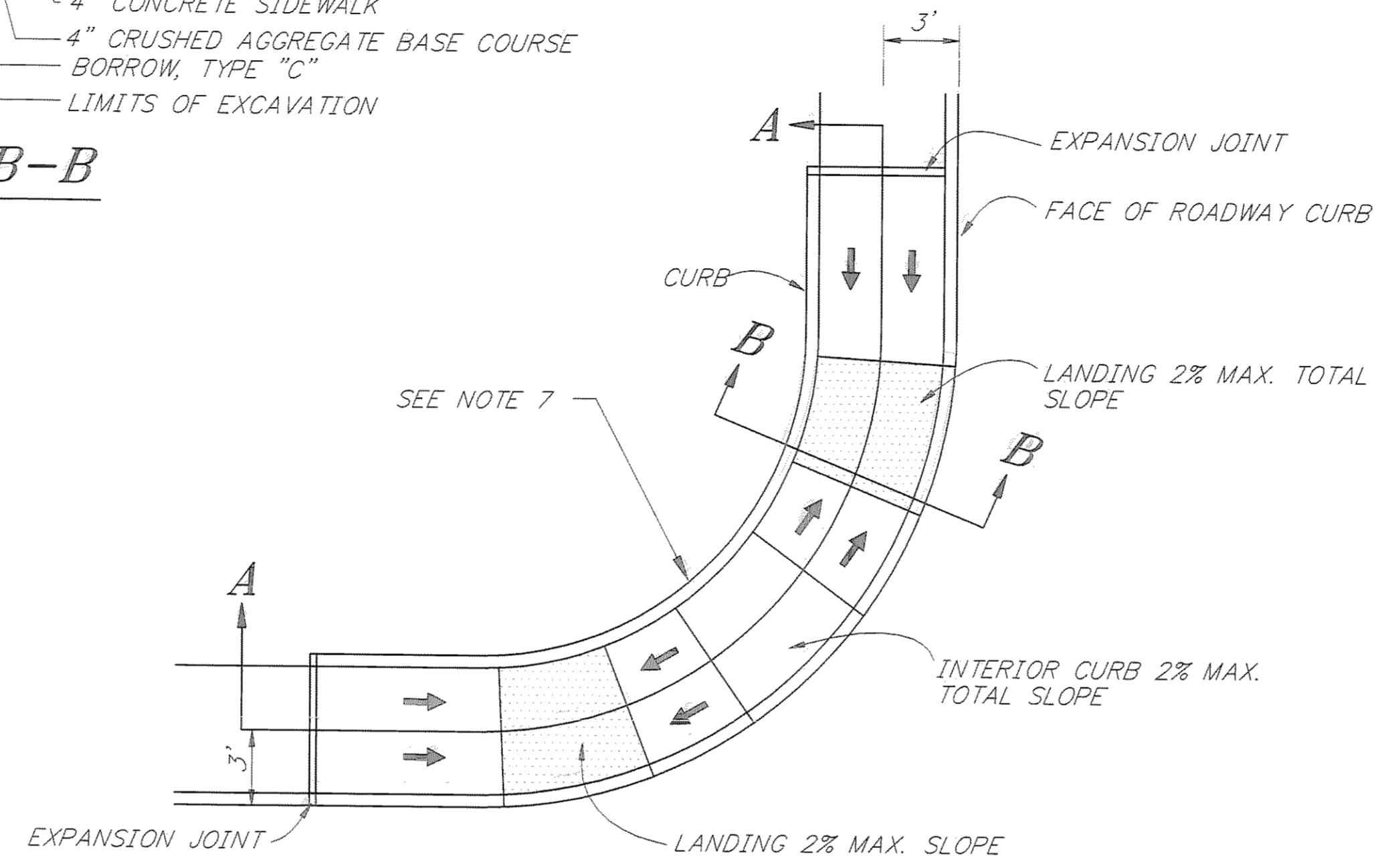
DESCRIPTION	X	Y	Z
APPROACHES	3"	1 1/2"	1 3/8"
ACCESSIBLE RAMPS	1"	1/2"	5/8"

DEPRESSED CURB DETAIL
NOTE: DEPRESSED CURB SHALL BE USED FOR APPROACH CURB CUTS AND CURB RAMPS.



SIDEWALK JOINT DETAIL

*SPACING OF CONTRACTION JOINTS SHALL BE:
5'-6" FOR 5'-6" WIDE SIDEWALK
7'-6" FOR 7'-6" WIDE SIDEWALK



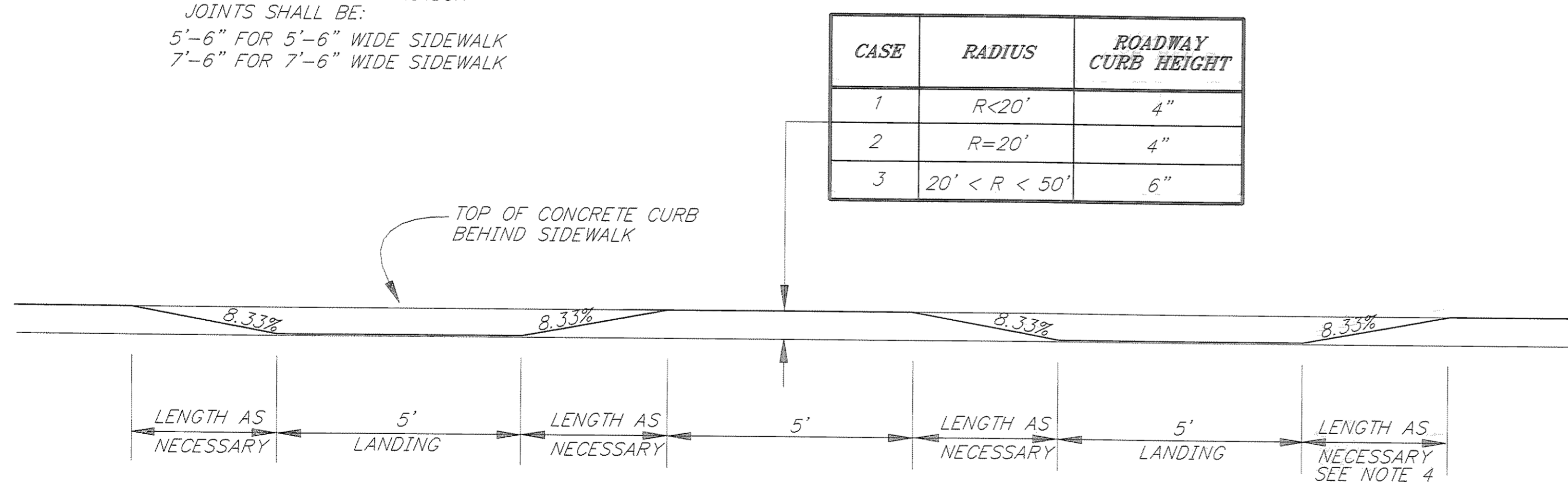
PARALLEL CURB RAMP
CORNER LOCATION

5.5 FEET WIDE		7.5 FEET WIDE	
4" THICK	6" THICK	4" THICK	6" THICK
NO REINFORCEMENT REQUIRED	4 EACH #4 LONGITUDINALLY EQUALLY SPACED #4 @ 18" O.C. LATERALLY	NO REINFORCEMENT REQUIRED	5 EACH #4 LONGITUDINALLY EQUALLY SPACED #4 @ 18" O.C. LATERALLY

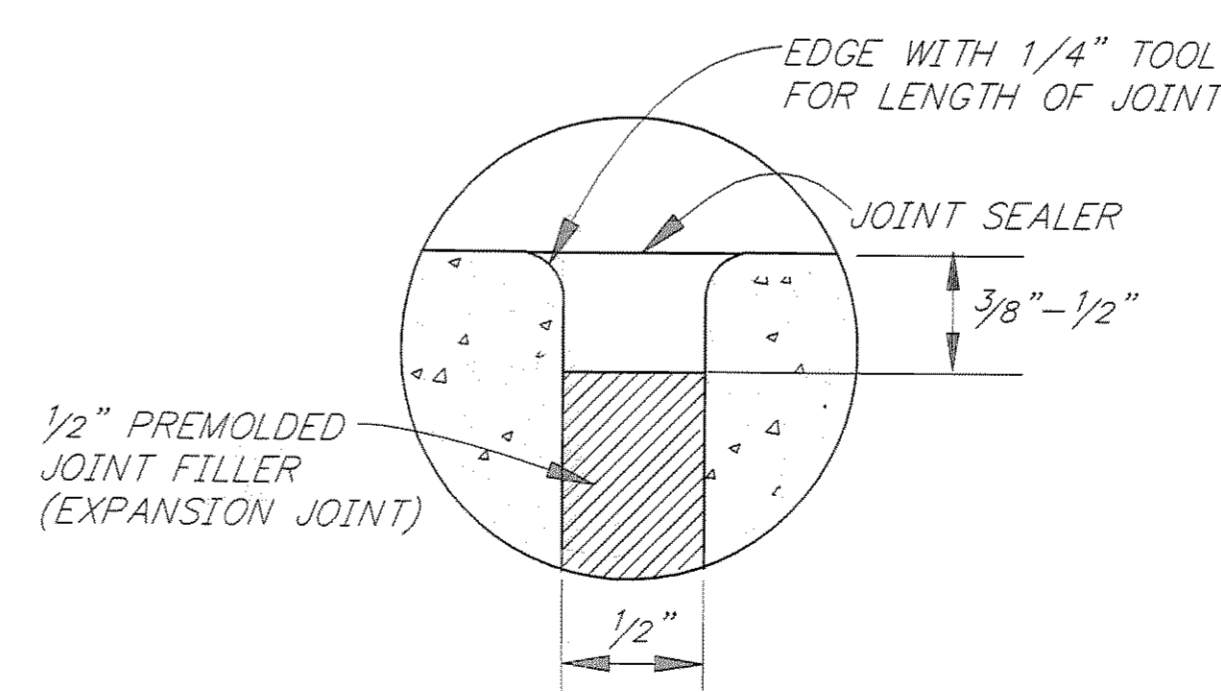
NOTE: RFT. NOT CONTINUOUS THROUGH EXPANSION JOINTS
RFT. IS CONTINUOUS THROUGH CONTRACTION JOINTS

PARALLEL CURB RAMP NOTES

- LANDINGS SHALL BE CONTAINED WITHIN THE MARKED CROSSWALK.
- RADIUS IS MEASURED FROM THE BACK OF CURB (B.C.).
- LANDINGS AND RAMPS SHALL HAVE A BROOMED FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- RAMP SLOPE MAY BE ADJUSTED SO THAT RAMP LENGTH DOES NOT EXCEED 8 FEET.
- LANDINGS ADJACENT TO CONCRETE SIDEWALKS SHALL HAVE PIGMENT THOROUGHLY MIXED INTO CONCRETE. COLOR IN DRY STATE SHALL CLOSELY MATCH FED-STD-30152, BRICK RED
- REFERENCE FOR CURB RAMP PLACEMENT IS MIDPOINT OF LANDING AT FACE OF CURB.
- CURB BEHIND CURB RAMP WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO ITEMS 608(1A) AND 608(6).



SECTION A-A



EXPANSION JOINT DETAIL

EVERY 30' O.C. MAXIMUM AND AS NOTED ON THIS SHEET

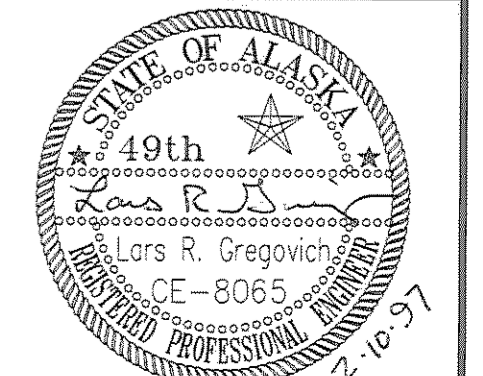
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

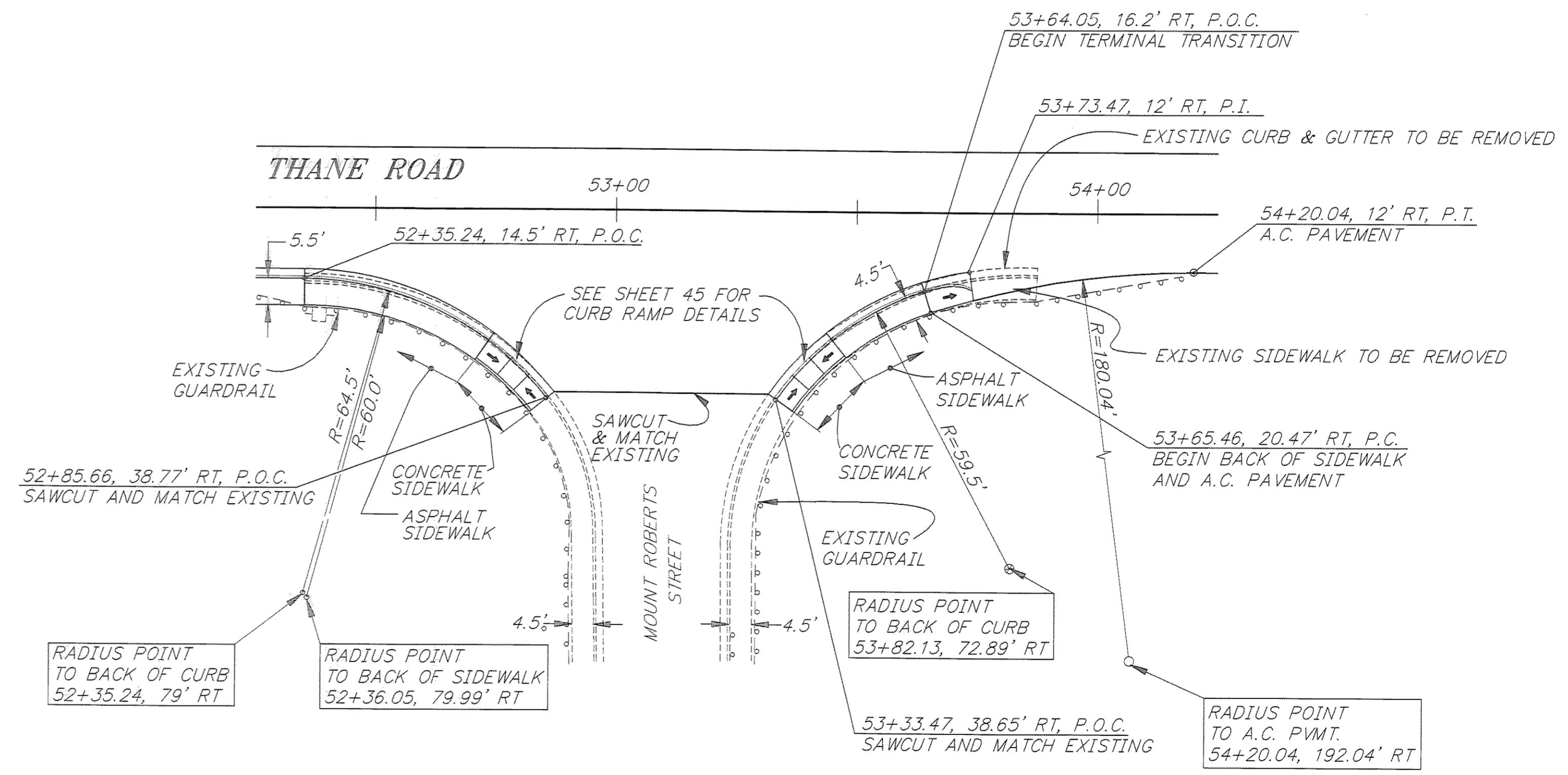
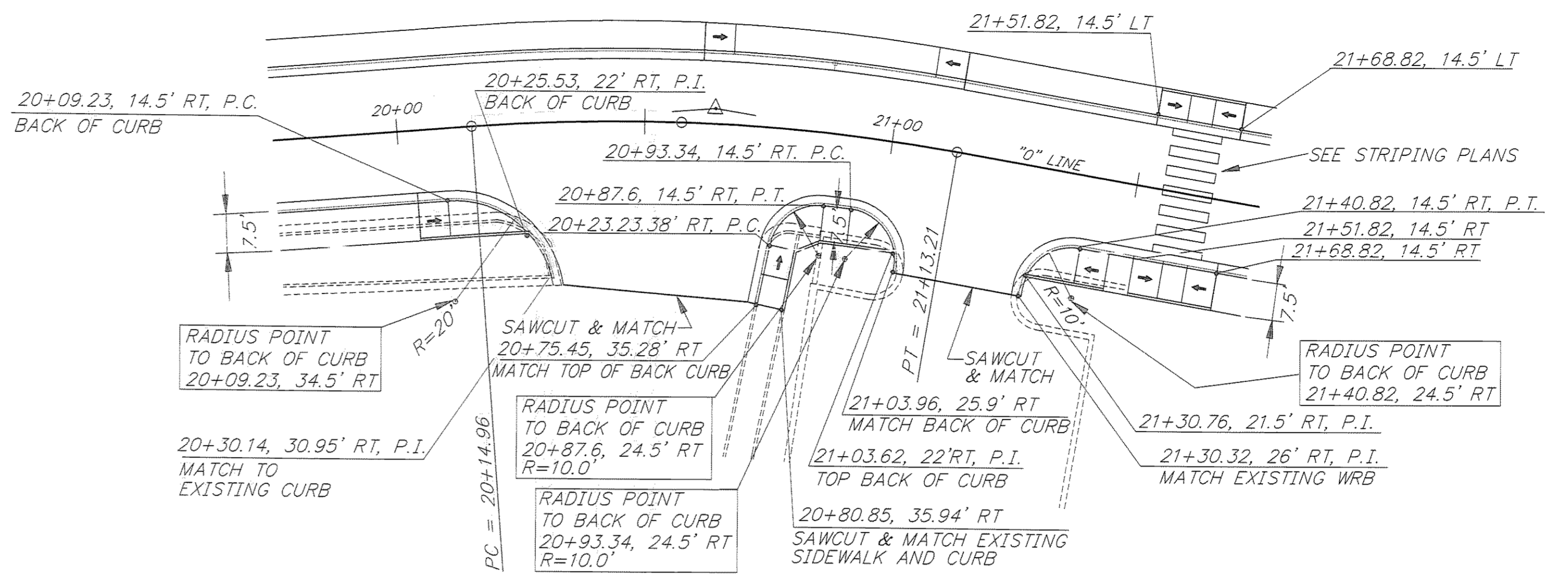
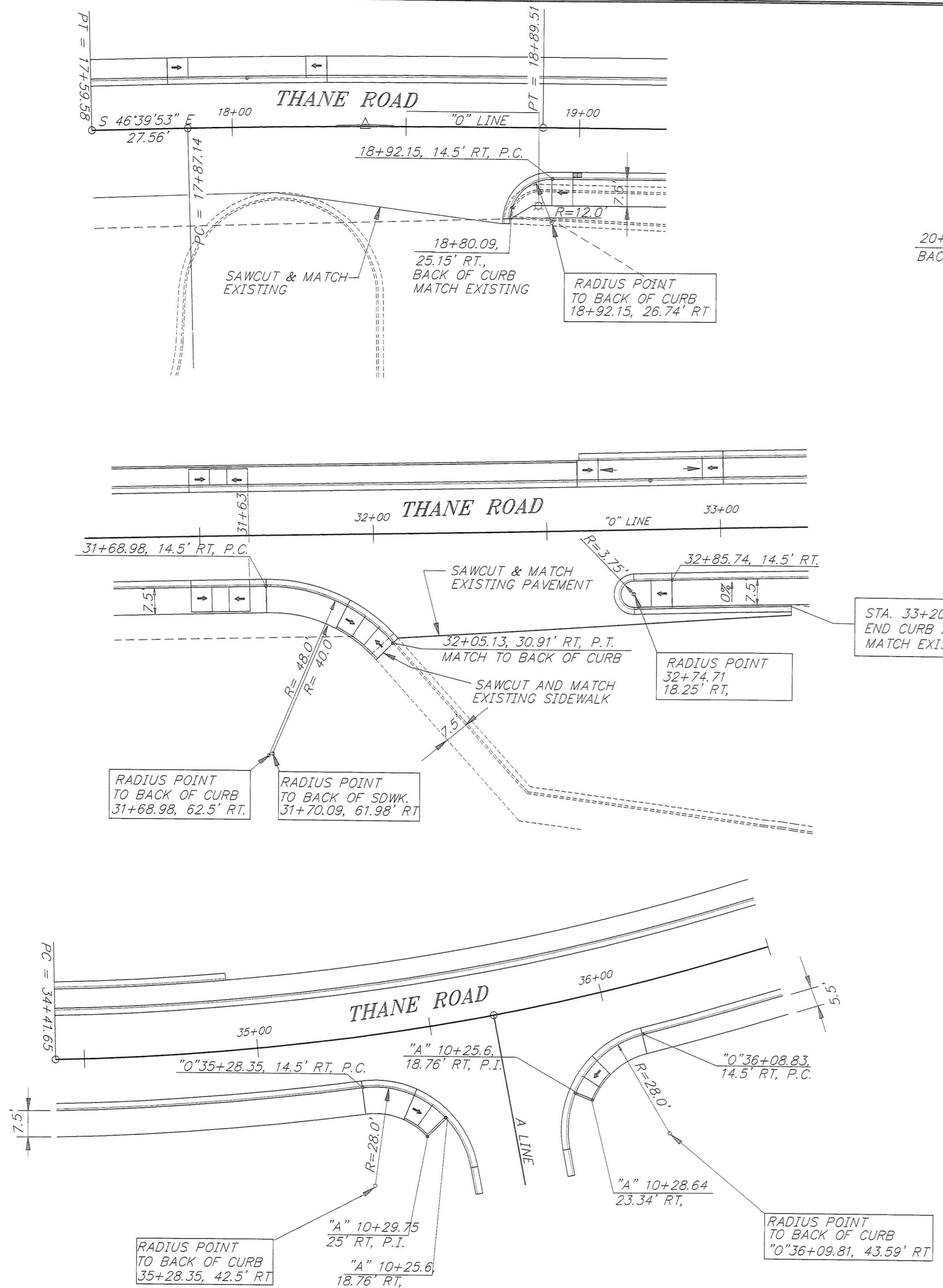
DATE	DESCRIPTION OF CHANGE

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

JUNEAU
THANE ROAD RECONSTRUCTION
ALASKA
STP-F-M-0963(1) ~ PROJECT NO. 70134
SIDEWALK AND CURB RAMP DETAILS

DESIGNED BY: DAVE WILLIAMS	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH	SHEET 44 OF 59





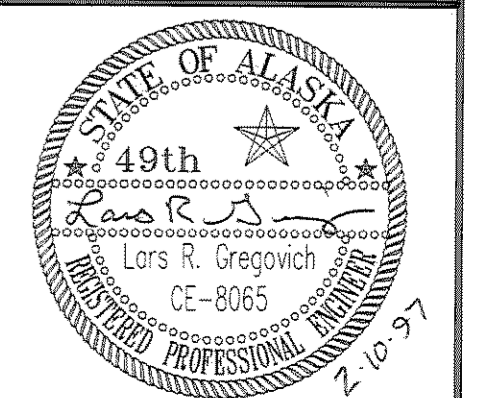
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

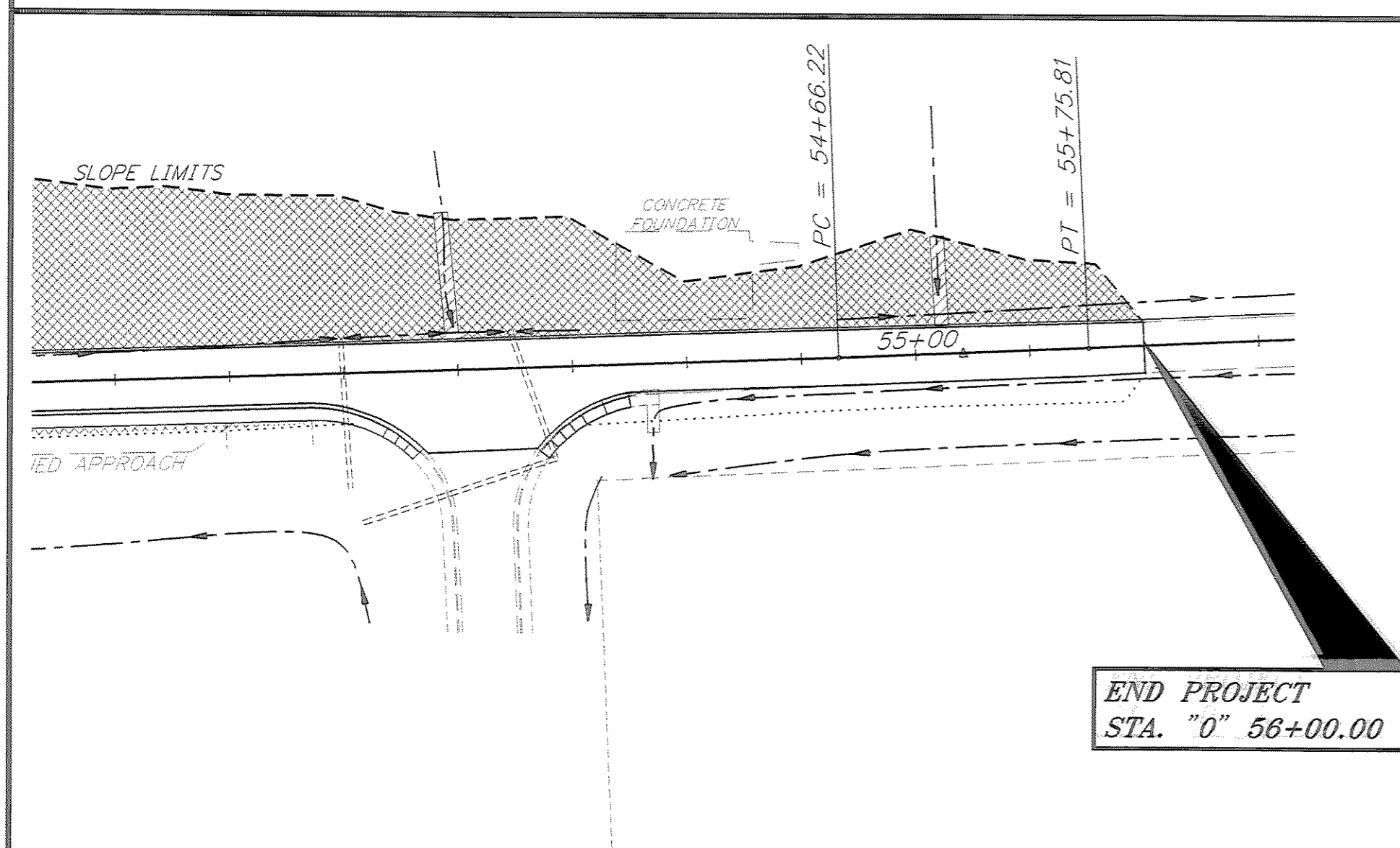
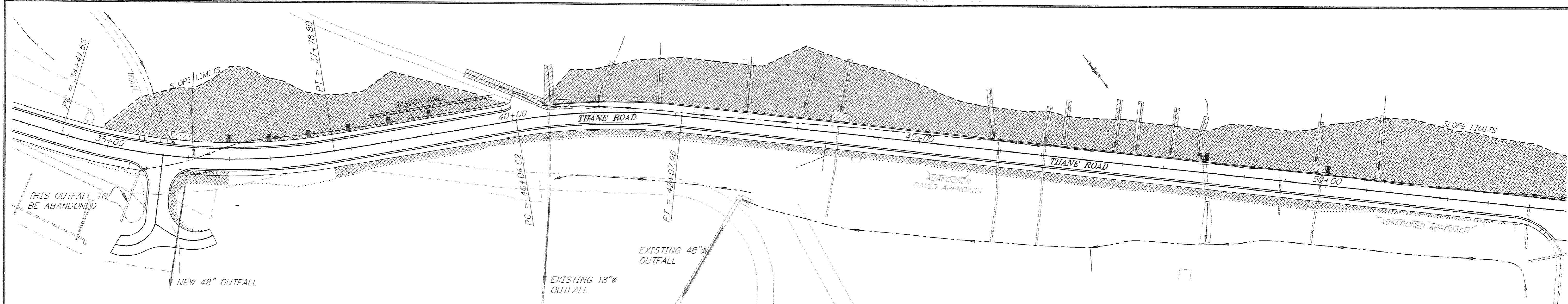
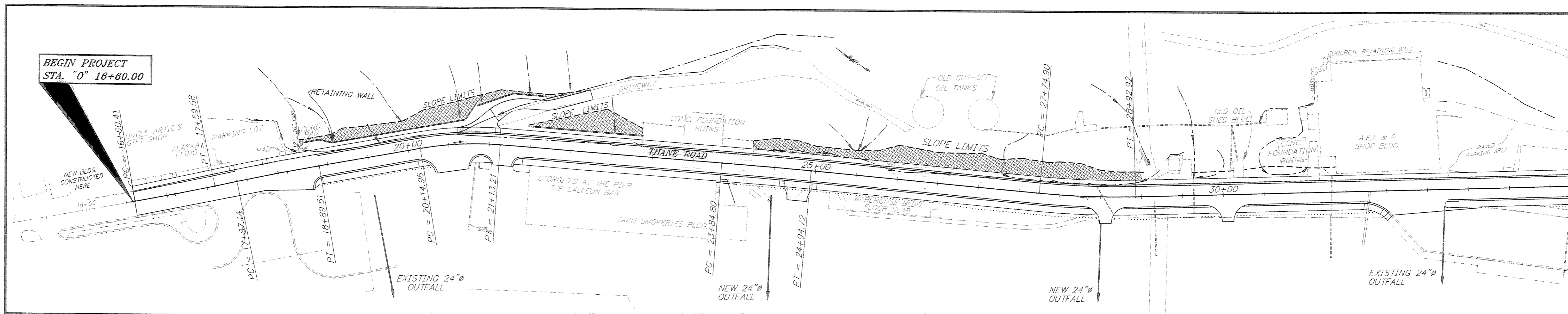
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 ALASKA
 STP-F-M-0963(1) PROJECT NO. 70134
 SIDEWALK RAMP PLANS

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DESIGNED BY: D. WILLIAMS	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: L. GREGOVICH	SHEET 45 OF 59





EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS REQUIRED TO PRESENT A STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.) 5 DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR'S S.W.P.P. SHALL INCLUDE, AT THE MINIMUM, HIS PROPOSED LOCATIONS FOR SPECIAL DITCHES, AND TEMPORARY CHECK DAMS, AS WELL AS ANY OTHER INFORMATION REQUIRED BY THE LATEST EDITION OF THE "CONTRACTORS GUIDE FOR PREPARING AND EXECUTING STORM WATER POLLUTION PREVENTION PLANS". COPIES OF THE LATEST EDITION OF THIS GUIDE BOOK MAY BE OBTAINED BY CONTACTING MR. JERRY MURPHY AT (907) 465-2985, 3132 CHANNEL DRIVE, JUNEAU ALASKA, 99801-7898. THERE IS A \$20.00 CHARGE FOR EACH COPY OF THIS BOOKLET.
2. JUNEAU IS SITUATED IN THE NORTHERN END OF THE ALEXANDER ARCHIPELAGO IN A MILD MARITIME CLIMATOLOGICAL AREA. AVERAGE SUMMER TEMPERATURES RANGE FROM 44F. TO 65F. WITH AN EXTREME HIGH BEING 90F. WHILE WINTER AVERAGES FROM 25F. TO 35F. WITH AN EXTREME LOW OF -25F. AVERAGE ANNUAL RAINFALL IN DOWNTOWN JUNEAU IS 92 INCHES WHILE 10 MILES TO THE NORTH, AT THE AIRPORT, IT IS 54 INCHES. THE PROJECT LOCATION IS APPROX. 10 MILES SOUTH OF THE AIRPORT. THE AVERAGE SNOWFALL IN THE AREA IS 100 INCHES AND CAN BE EXPECTED BETWEEN OCTOBER AND MAY.
3. DITCH LININGS AND BROAD CRESTED WEIRS SHALL BE CONSTRUCTED AS SOON AS THE FINISHED DITCH FLOWLINES ARE ESTABLISHED.
4. SEE DRAINAGE PLANS FOR DETAILS AND LOCATIONS OF DITCH IMPROVEMENTS, DITCH LININGS, BROAD CRESTED WEIRS, EROSION CONTROL ROCK, AND MATTING & SEEDING.
5. SEE OTHER PLAN AND DETAIL SHEETS AND THE SPECIAL PROVISIONS FOR DETAILS ON MATTING AND SEEDING.
6. USE BROAD CRESTED WEIR DETAILS FOR CONSTRUCTING ROCK CHECK DAMS, EXCEPT FOR THE ELIMINATION OF GEOTEXTILE UNDER THE ROCK. ROCK CHECK DAMS MAY BE REQUIRED PRIOR TO COMPLETION OF THE DITCH FLOWLINES AND INSTALLATION OF THE BROAD CRESTED WEIRS.
7. BOTH ROCK CHECK DAMS AND BROAD CRESTED WEIRS SHALL BE REGULARLY MAINTAINED DURING CONSTRUCTION TO MAINTAIN THEIR EFFECTIVENESS.
8. DEWATERING OF WORK AREAS BY PUMPING OR TEMPORARY STREAM DIVERSIONS SHALL BE IMPLEMENTED WHEREVER POSSIBLE TO REDUCE THE PROJECT'S WATER QUALITY IMPACTS.
9. IF THE CONTRACTOR USES THE "LITTLE ROCK DUMP" AS A WASTE DISPOSAL SITE, HE SHALL BE REQUIRED TO CONSTRUCT A CONTINUOUS SILT FENCE AROUND THE PERIMETER OF THE DISPOSAL AREA. SEE APPENDIX "G" OF THE SPECIAL PROVISIONS.

LEGEND	
	SEEDING AND/OR MATTING
	EXISTING DRAINAGE
	BROAD CRESTED WEIR
	ROCK CHECK DAM
	STREAM OR DITCH LINING

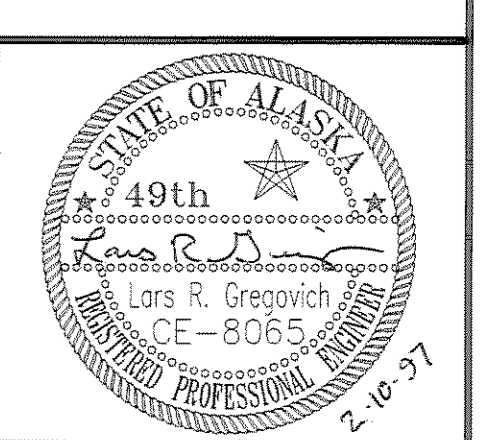
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PLOT:	P: \-LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.H.PCP(2)	
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

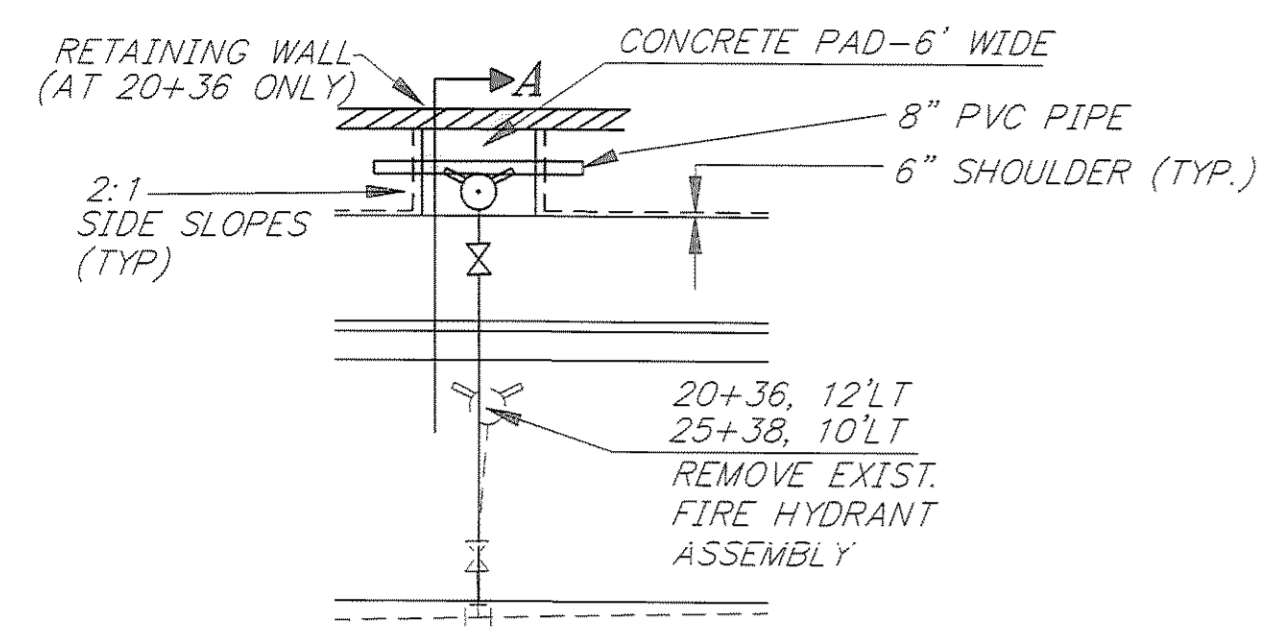
JUNEAU ALASKA
 THANE ROAD RECONSTRUCTION
 STP-F-M-0963(1) ~ PROJECT NO. 70134
**EROSION & SEDIMENT CONTROL PLAN
 AND PETROLEUM CONTAMINATED AREAS**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

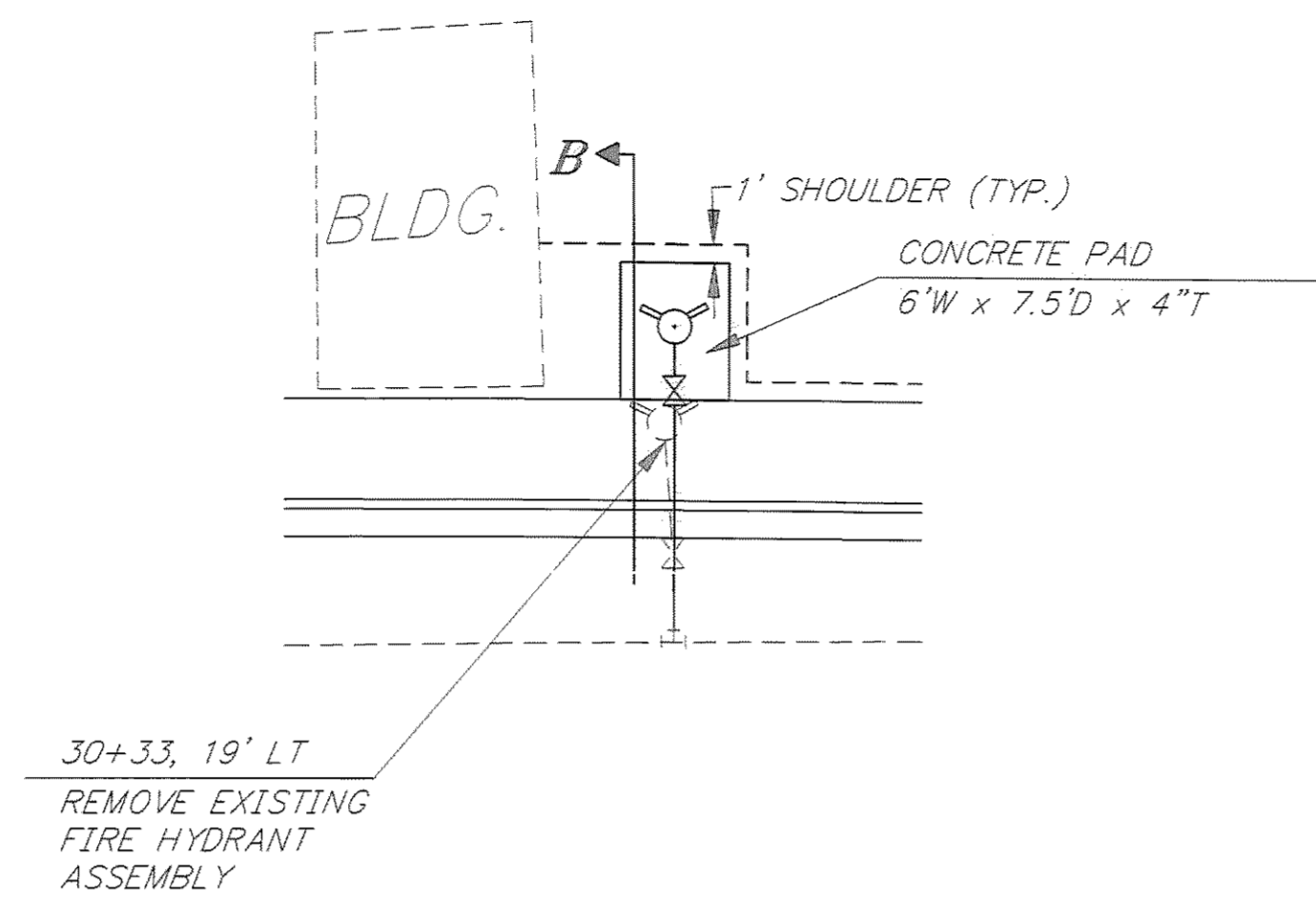
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DRAWN BY:	K. SNYDER	DATE:	FEB. 1997
CHECKED BY:	L. GREGOVICH	SHEET	46 OF 59



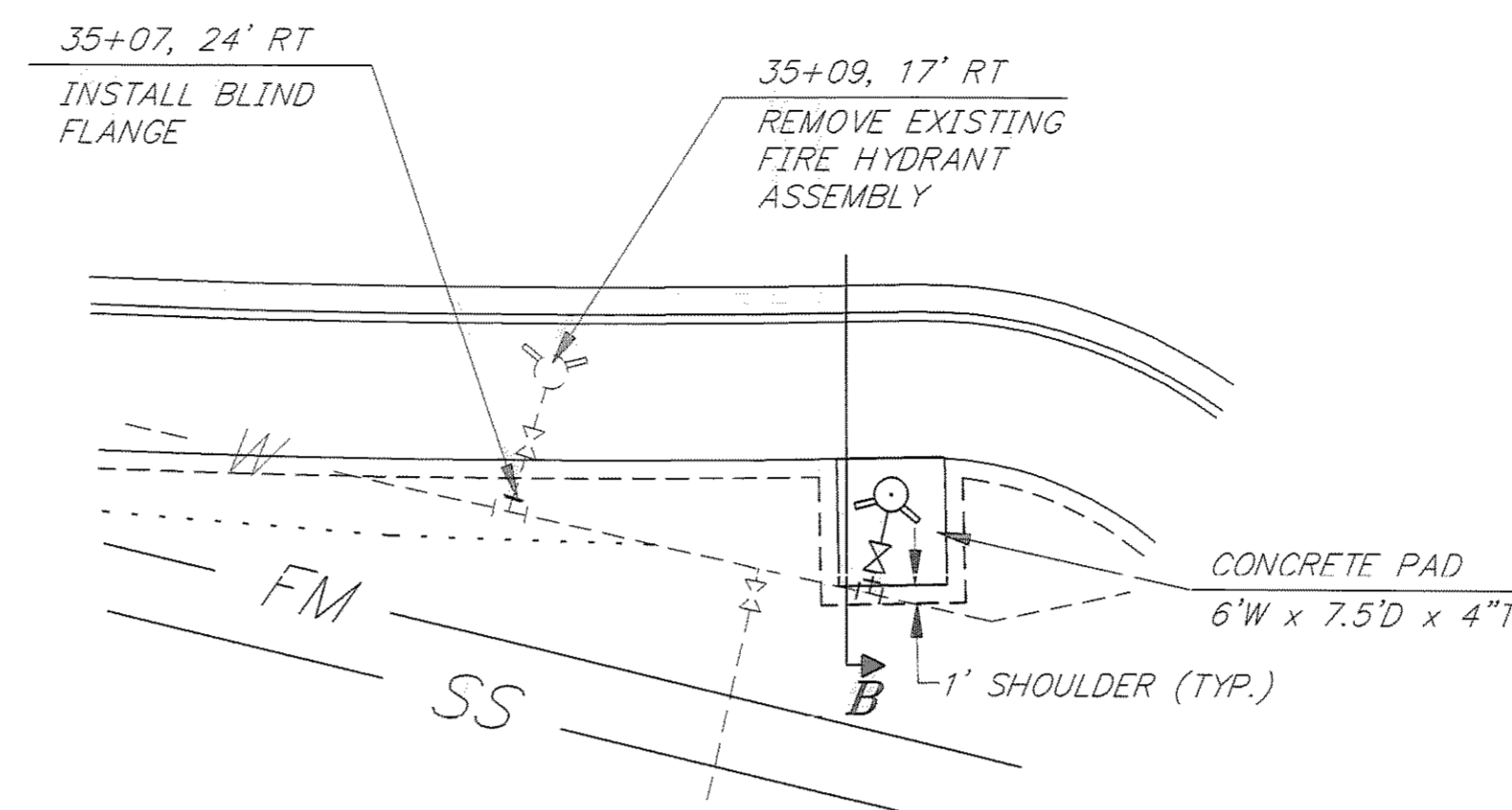
- NOTES:**
- SEE CBJ STANDARD DRAWINGS FOR MORE SPECIFIC WORK REQUIRED AT HYDRANTS AND OTHER WATER ITEMS.
 - CITY MAY REQUIRE LIVE TAPPING OF WATERLINE FOR FIRE HYDRANT WORK.
 - RESTAURANT AND SEAFOOD PROCESSING PLANT OPERATIONS IN AREA. ALL WATER SHUT-DOWNS SHALL BE COORDINATED WITH CITY AND BUSINESS/PROPERTY OWNERS NOTIFIED.



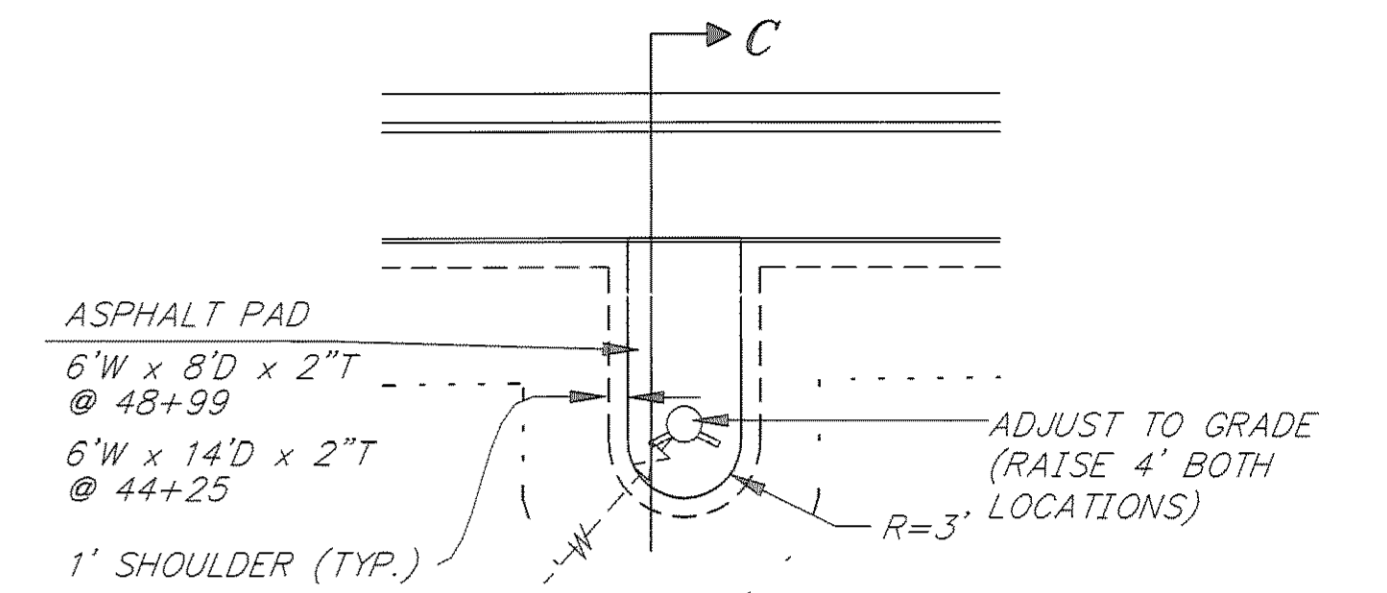
STA. 20+36, 21.25' LT
AND STA 25+38, 21.25' LT



STA. 30+33, 24.0' LT

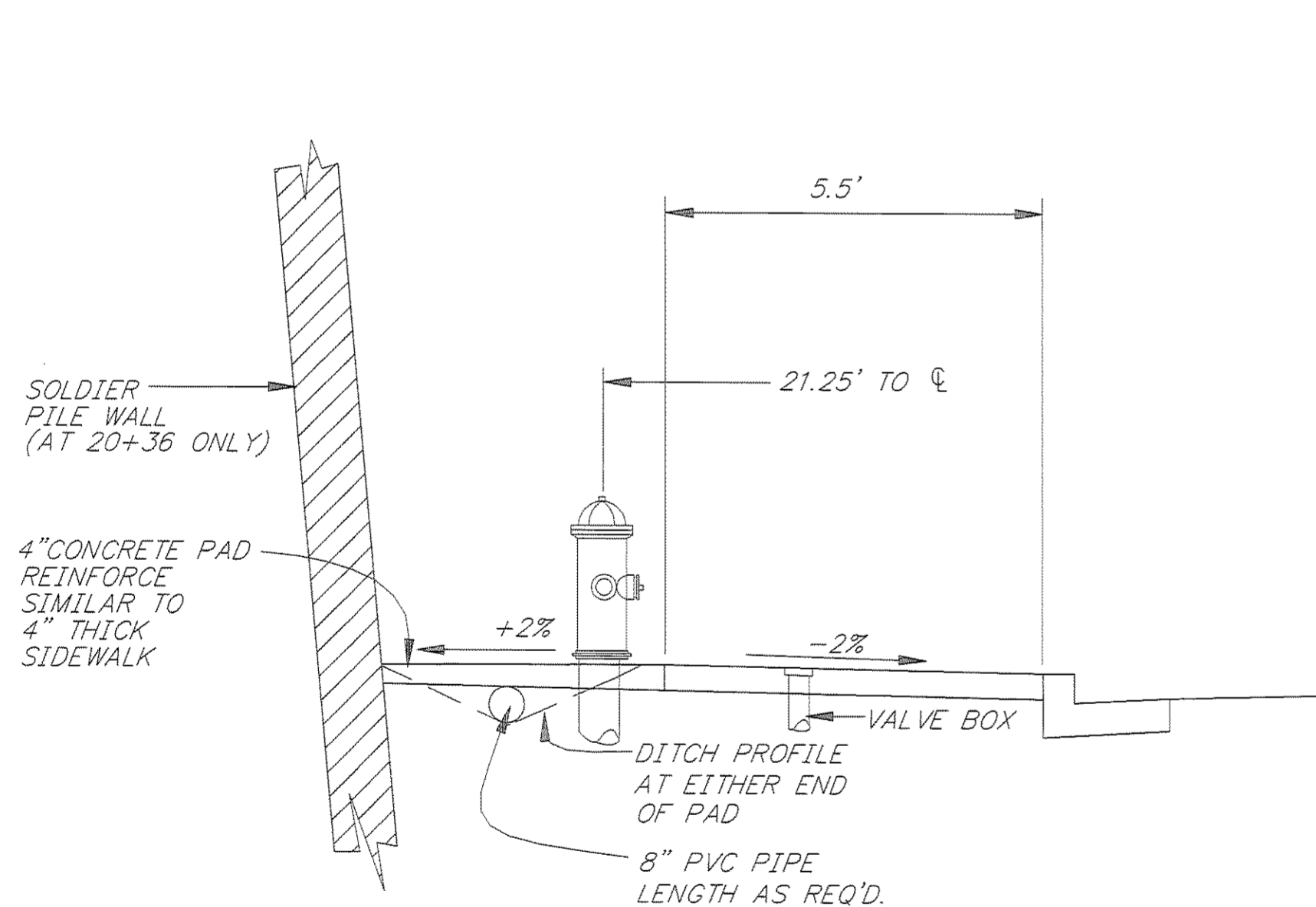


STA. 35+24, 22.0' RT



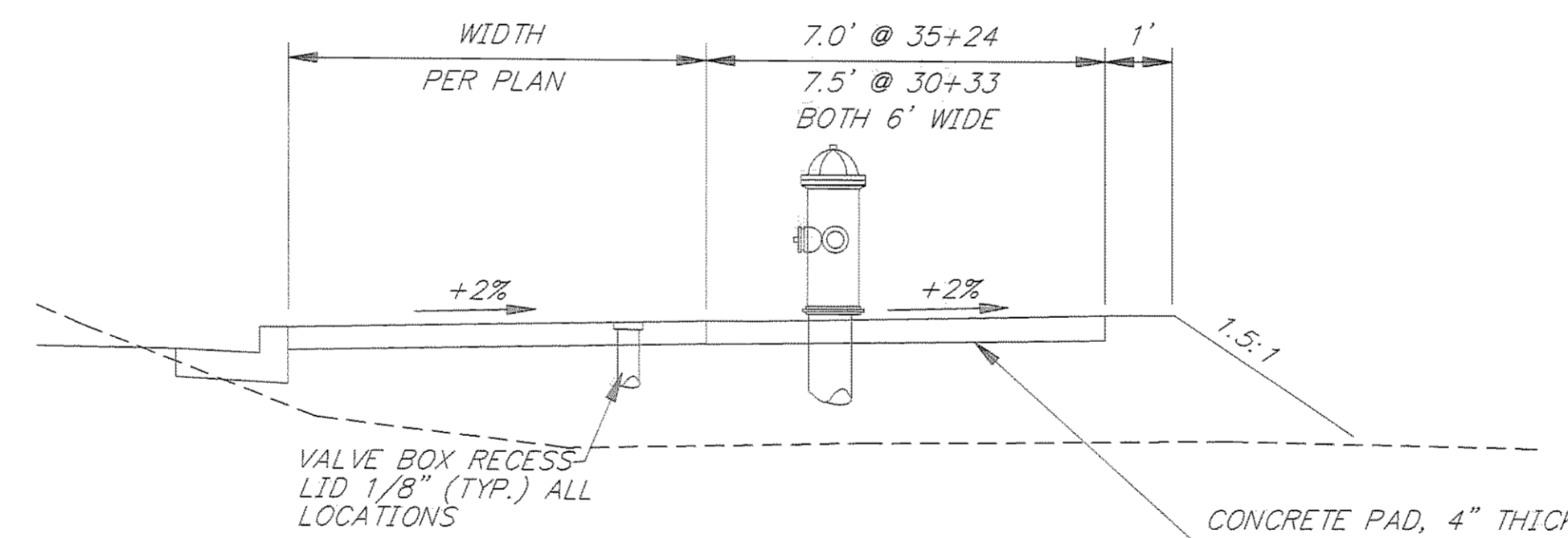
STA. 44+25, 29.7' RT
AND STA. 48+99, 23.4' RT

FIRE HYDRANT RELOCATIONS, ADJUSTMENTS AND ACCESS PAD PLANS



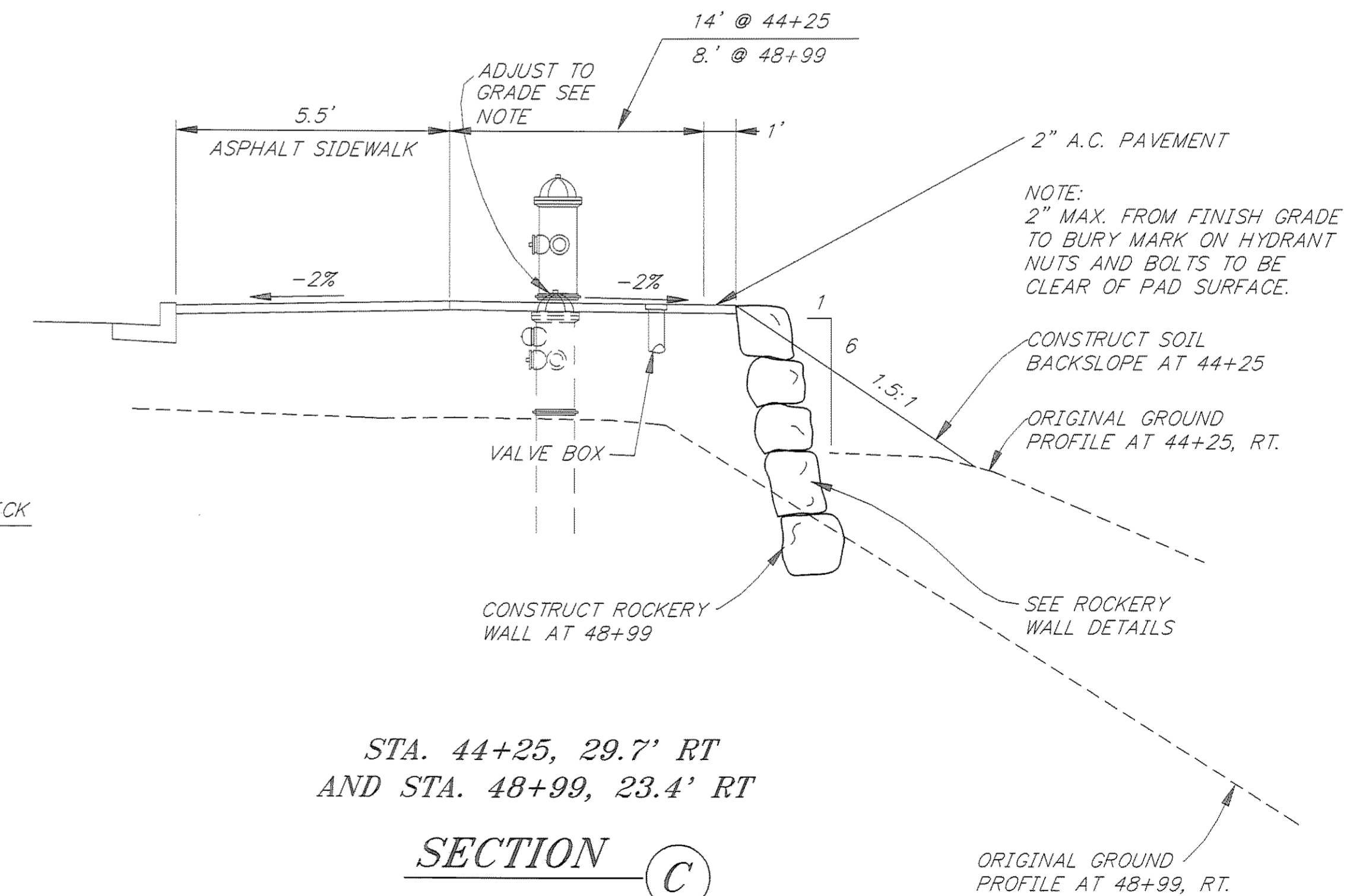
STA. 20+36, 21.25' LT
AND STA 25+38, 21.25' LT

SECTION A



STA. 30+33, 24.0' LT
AND STA. 35+24, 22.0' RT

SECTION B



STA. 44+25, 29.7' RT
AND STA. 48+99, 23.4' RT

SECTION C

FIRE HYDRANT ACCESS PAD SECTIONS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\JNU\70134\DR\FIREHYD		
PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
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AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

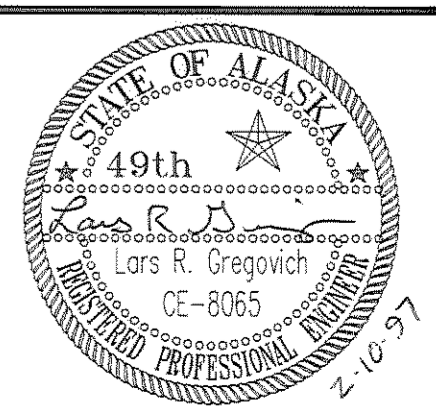
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134

ALASKA

DESIGNED BY:
L. GREGOVICH
DRAWN BY:
K. SNYDER
CHECKED BY:
A. STEININGER

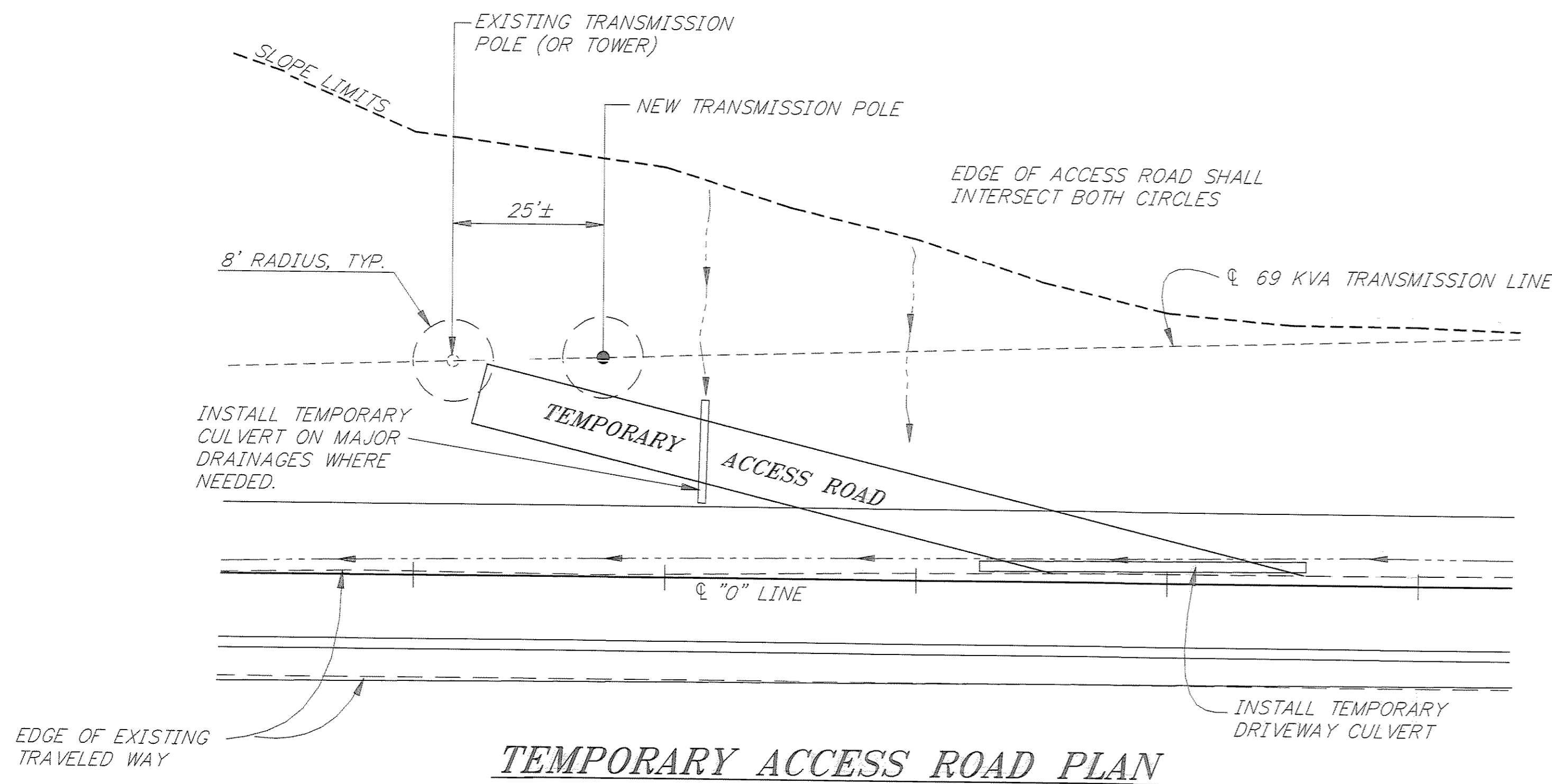
PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 47 OF 59

FIRE HYDRANT ACCESS PAD DETAILS



UTILITY COORDINATION NOTES:

- 1) INSTALLATION OF UNDERGROUND CABLE BY PTI, ACN AND AEL&P AND DEMOLITION OF EXISTING OVERHEAD ELECTRICAL, TELEPHONE, CABLE TV AND ELECTRICAL DISTRIBUTION FACILITIES BETWEEN STA. 16+50 AND 45+00 WILL BE COMPLETED BY MARCH 15, 1997. ROCK BLASTING SHALL NOT BEGIN PRIOR TO MARCH 15, 1997, UNLESS THE UNDERGROUND UTILITY CONVERSION IS COMPLETE PRIOR TO THIS DATE.
- 2) THERE ARE VARIOUS UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT LIMITS. THE LOCATION INDICATED ON THE PLANS ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL REQUEST LOCATES FROM ALL THE UTILITIES HAVING FACILITIES IN THE AREA. THE CONTRACTOR IS REQUIRED TO WORK AROUND ALL UTILITY FACILITIES THROUGHOUT THE PROJECT AND SHALL MAINTAIN UNINTERRUPTED SERVICE. IF THE CONTRACTOR BEGINS WORK PRIOR TO MARCH 15, 1997, HE SHALL COORDINATE HIS WORK SO THAT THE UTILITIES AND/OR THEIR CONTRACTORS HAVE ACCESS TO THEIR WORK AREAS.
- 3) AEL&P AND/OR THEIR CONTRACTOR WILL BE INSTALLING NEW TRANSMISSIONS POLES TO REPLACE EXISTING ONES ON THE LEFT AT STA. 40+00, 44+10, 47+65 AND 51+10. THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE THE BACKSLOPES, CONSTRUCT A TEMPORARY ACCESS ROAD AND INSTALL MATTING, SEEDING AND EROSION CONTROL ROCK ON THE BACKSLOPES AS SHOWN ON THIS PLAN SHEET BEFORE AEL&P WILL BEGIN WORK ON A GIVEN POLE. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WRITTEN NOTIFICATION WHEN AEL&P CAN PROCEED. AEL&P WILL REQUIRE 3 WEEKS FROM THE NOTIFICATION DATE TO COMPLETE INSTALLATION OF A NEW POLE.
- 4) GENERAL REQUIREMENTS FOR THE TEMPORARY ACCESS ROAD ARE AS FOLLOWS:
 - A) MAXIMUM GRADE - 15%
 - B) MINIMUM WIDTH - 12 FEET
 - C) SHALL BE ALIGNED SUCH THAT THE EDGE OF THE ROAD WILL PASS WITHIN AN 8' RADIUS OF THE EXISTING AND NEW POLE LOCATIONS.
 - D) THE SURFACE SHALL BE FIRM AND STABLE AND SHALL BE PASSABLE BY AEL&P'S EQUIPMENT
 - E) COORDINATE ALL WORK WITH TIM McLEOD OF AEL&P.
- 5) CONSTRUCTION OF THE TEMPORARY ACCESS ROAD AND INSTALLATION OF TEMPORARY CULVERTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

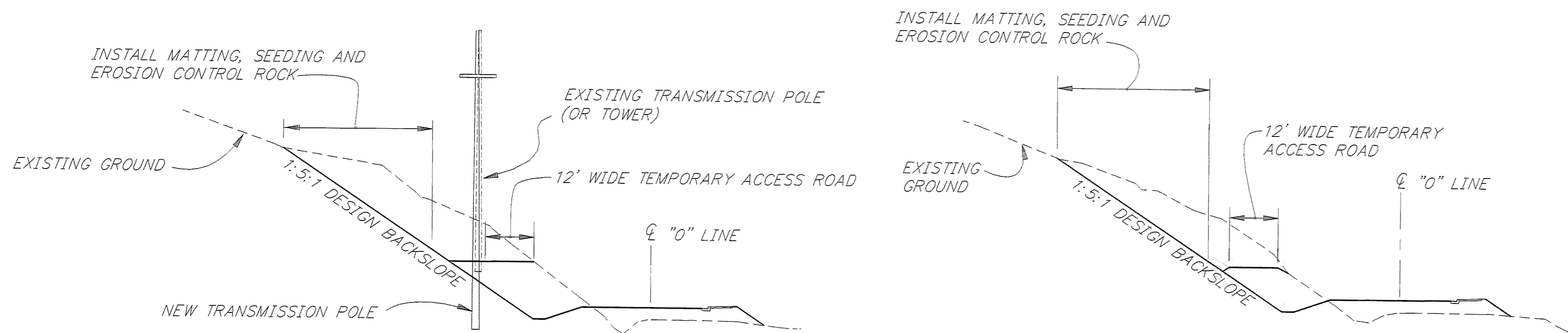


TEMPORARY ACCESS ROAD PLAN

APPLICABLE TO EXISTING POLES AT STA. "O" 44+10 AND "O" 50+10

NOTES ON CONDUIT EXTENSIONS

- 1) CONTRACTOR SHALL LOCATE ENDS OF THE EXISTING CONDUITS.
- 2) CONDUIT SHALL BE EXTENDED WITH SCH. 40 PVC AT A MINIMUM OF 3.0 BURY AND RISED AND CAPPED 1.0' ABOVE FINISH GRADE.
- 3) ALL JOINTS SHALL BE GLUED, EXCEPT CAPS AND SEWER LATERAL EXTENSION AT 21+40 LT.
- 4) PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIAL (INCLUDING EXCAVATION, BEDDING & WARNING TAPE) WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO OTHER CONTRACT ITEMS.



SECTION AT TRANSMISSION POLES

TYPICAL SECTION OF TEMPORARY ACCESS ROAD

CONDUIT EXTENSION SUMMARY		
QTY & SIZE	FROM STATION & OFFSET	TO STATION & OFFSET
2 EACH 4"Ø 1 EACH 2"Ø	20+90 "O" 1' LEFT	21+25 "O" 25' LEFT
2 EACH 4"Ø 1 EACH 2"Ø	24+00 "O" 5' LEFT	24+00 "O" 22' LEFT
2 EACH 4"Ø 1 EACH 2"Ø	42+50 "O" 1' LEFT	42+50 "O" 30' LEFT
1 EACH 8"Ø PVC SCH 40	21+40 "O" 20' LEFT	21+40 "O" 30' LEFT

PATH: P:\JNU\70134\DR\UTILP		
PLOT: P:\LIB\ -PLOT\ PLOT.PCP(40) OR PLOT.PCP(80)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

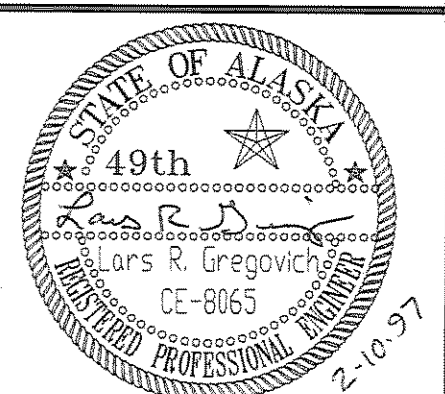
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

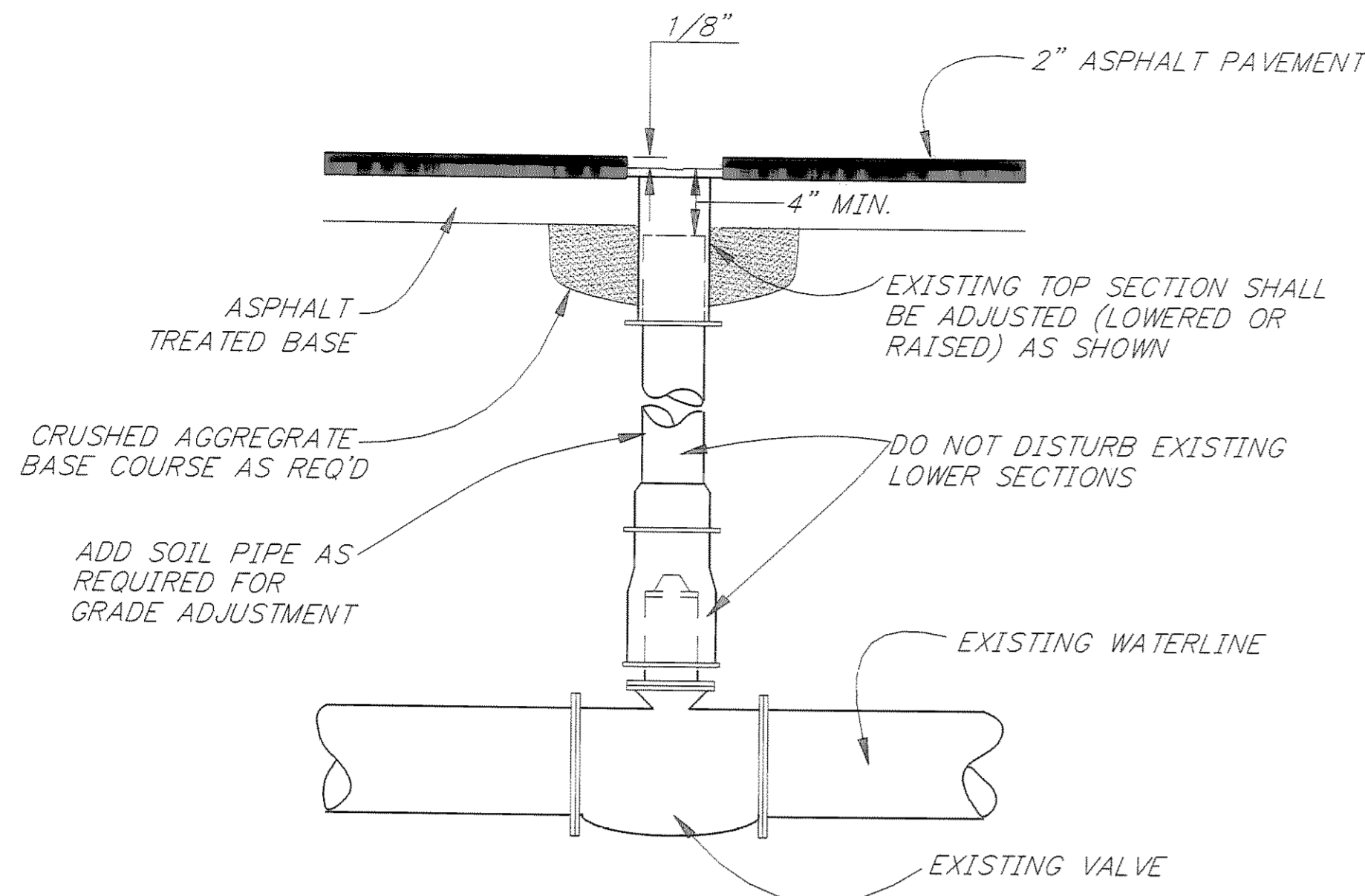
JUNEAU

THANE ROAD RECONSTRUCTION
ALASKA
STP-F-M-0963(1) ~ PROJECT NO. 70134
UTILITY COORDINATION PLAN

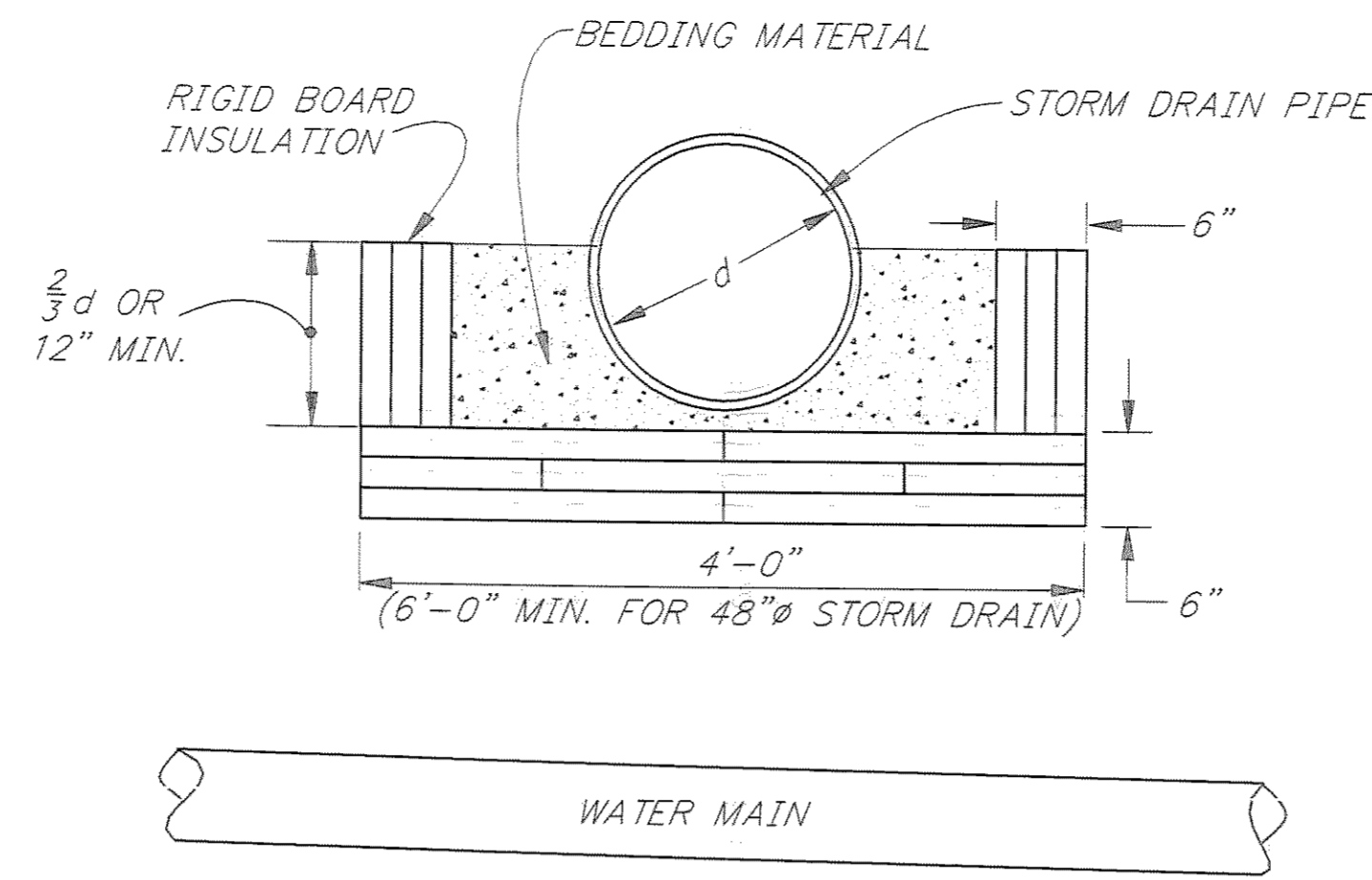
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 48 OF 59

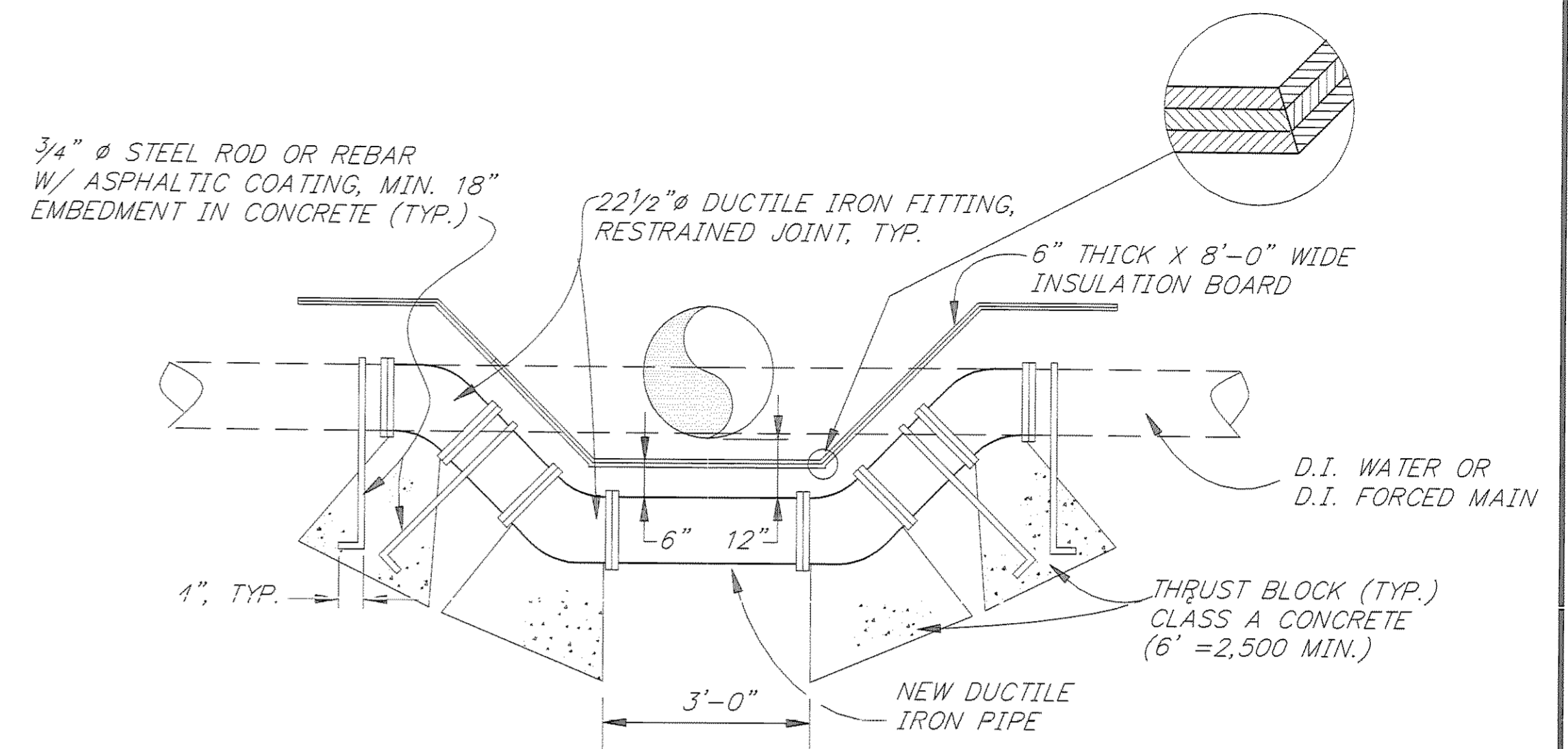




VALVE BOX ADJUSTMENT DETAIL

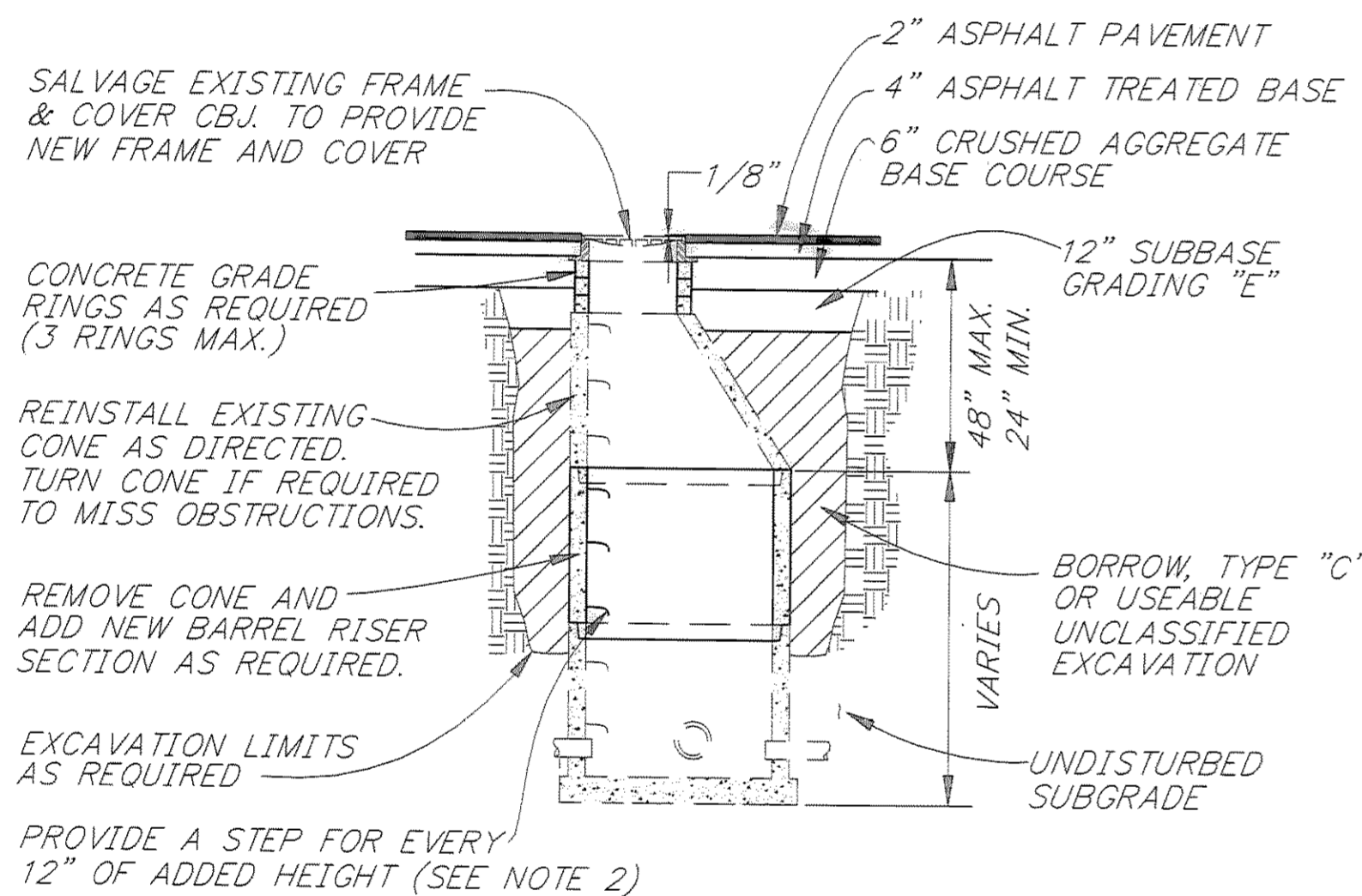


INSULATION DETAIL
(SEE NOTE 4)

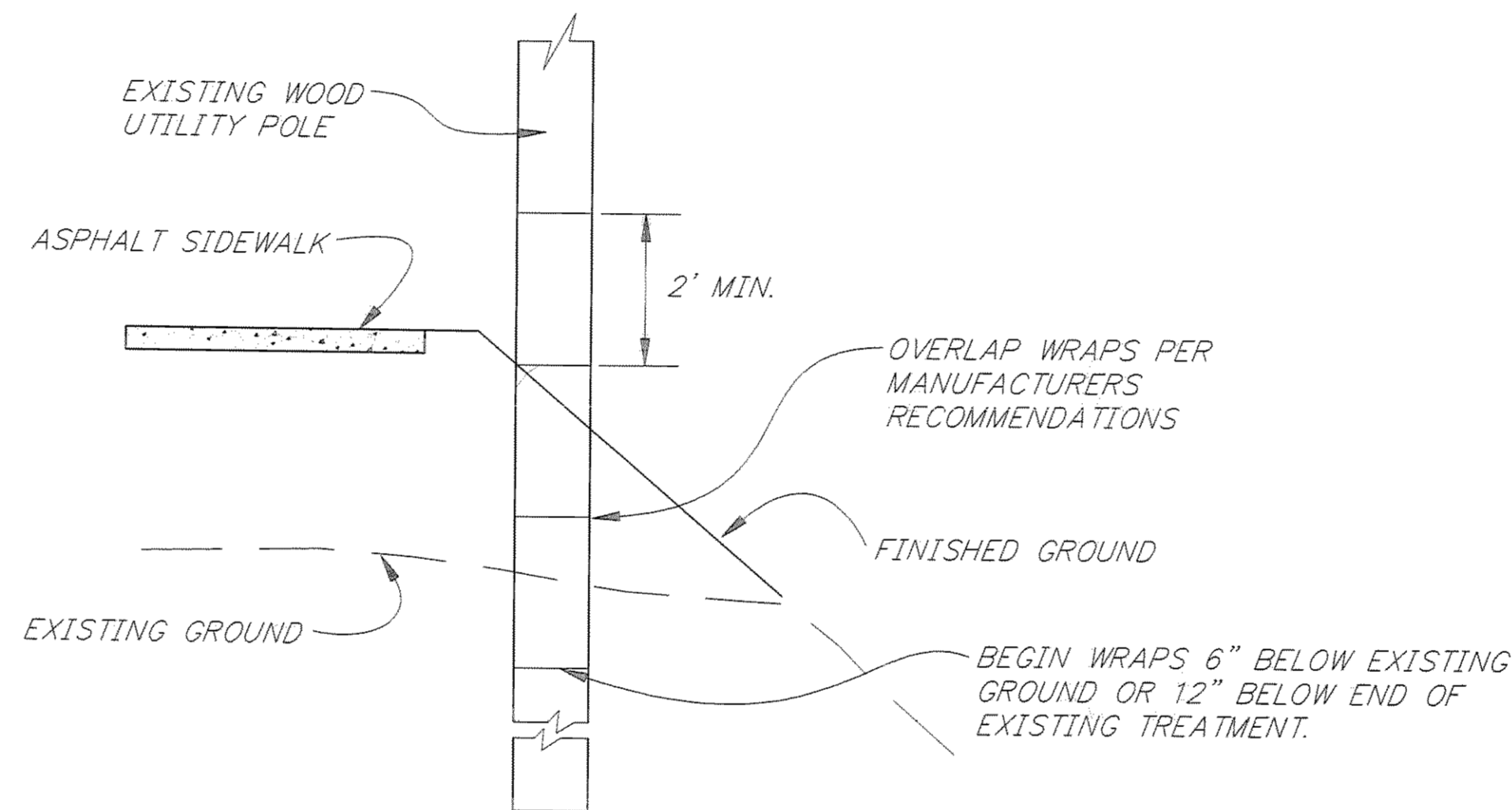


WATER LINE RELOCATION

ALL RESTRAINED JOINT FITTINGS SHALL BE MEGA-LUG AS MANUFACTURED BY EBBA-IRON, OR APPROVED EQUAL



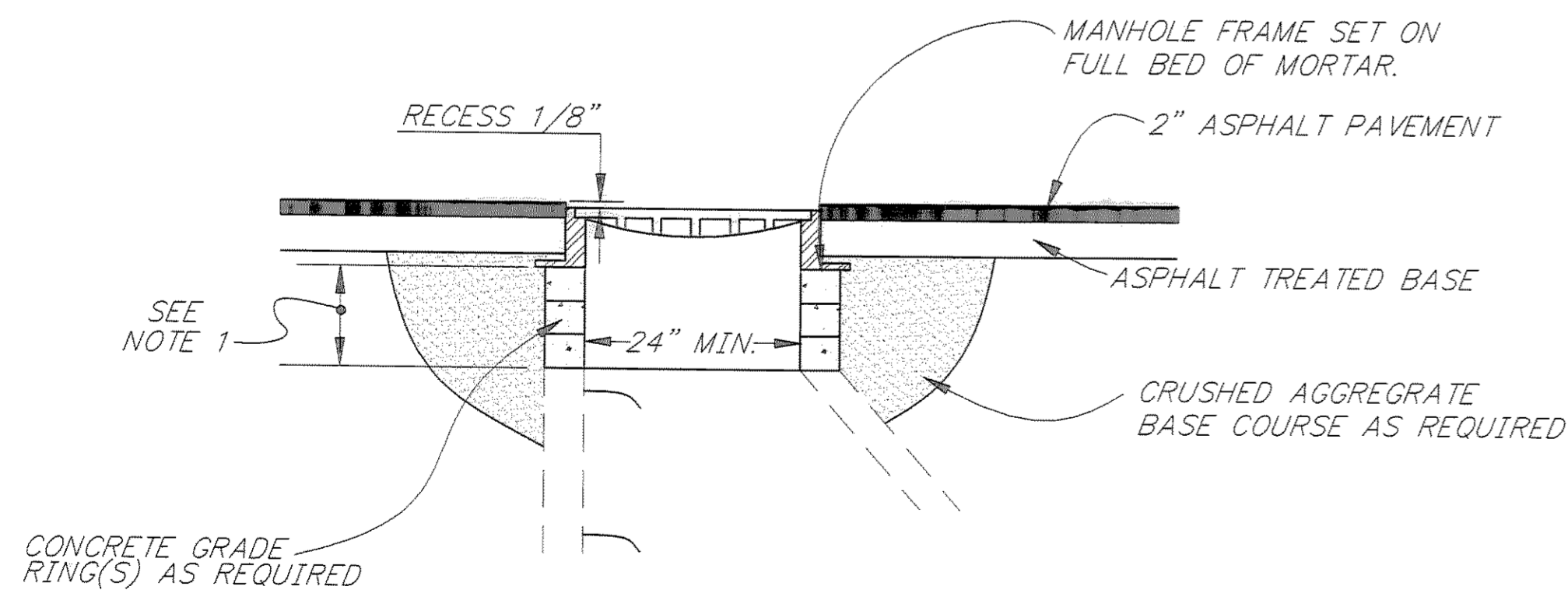
RECONSTRUCT MANHOLE DETAIL



POLE WRAP DETAIL

NOTES:

- 1) MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
- 2) NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 36" FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
- 3) ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
- 4) INSTALL INSULATION WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 5) WATER LINE RELOCATION, IF NEEDED, SHALL BE AS DIRECTED BY THE ENGINEER.



ADJUST STORM/SEWER MANHOLE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\JNU\70134\DR\UTILD		
PLOT: P:\-LIB\-PLOT\PL0TF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU

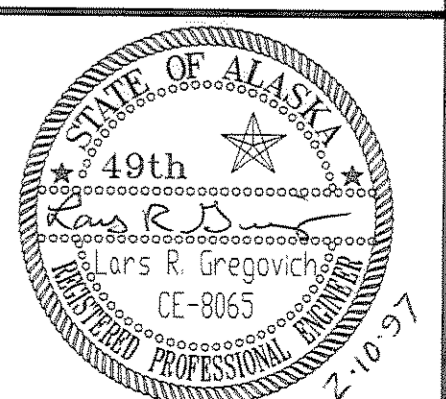
THANE ROAD RECONSTRUCTION

ALASKA

STP-F-M-0936(1) ~ PROJECT NO. 70134

UTILITY ADJUSTMENTS AND DETAILS

DESIGNED BY: L. GREGOVICH	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: A. STEININGER	SHEET 49 OF 59

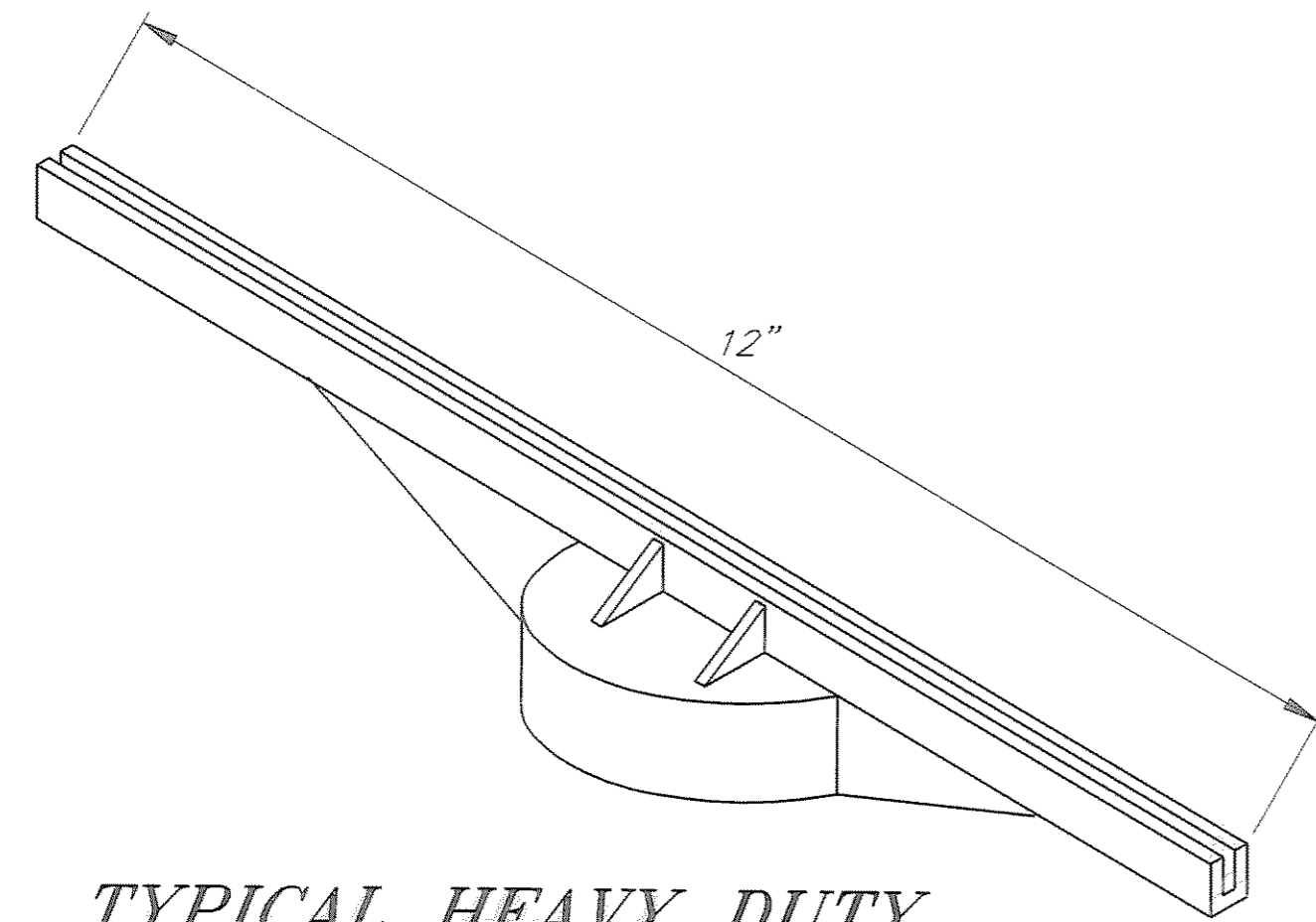


SIGN SUMMARY

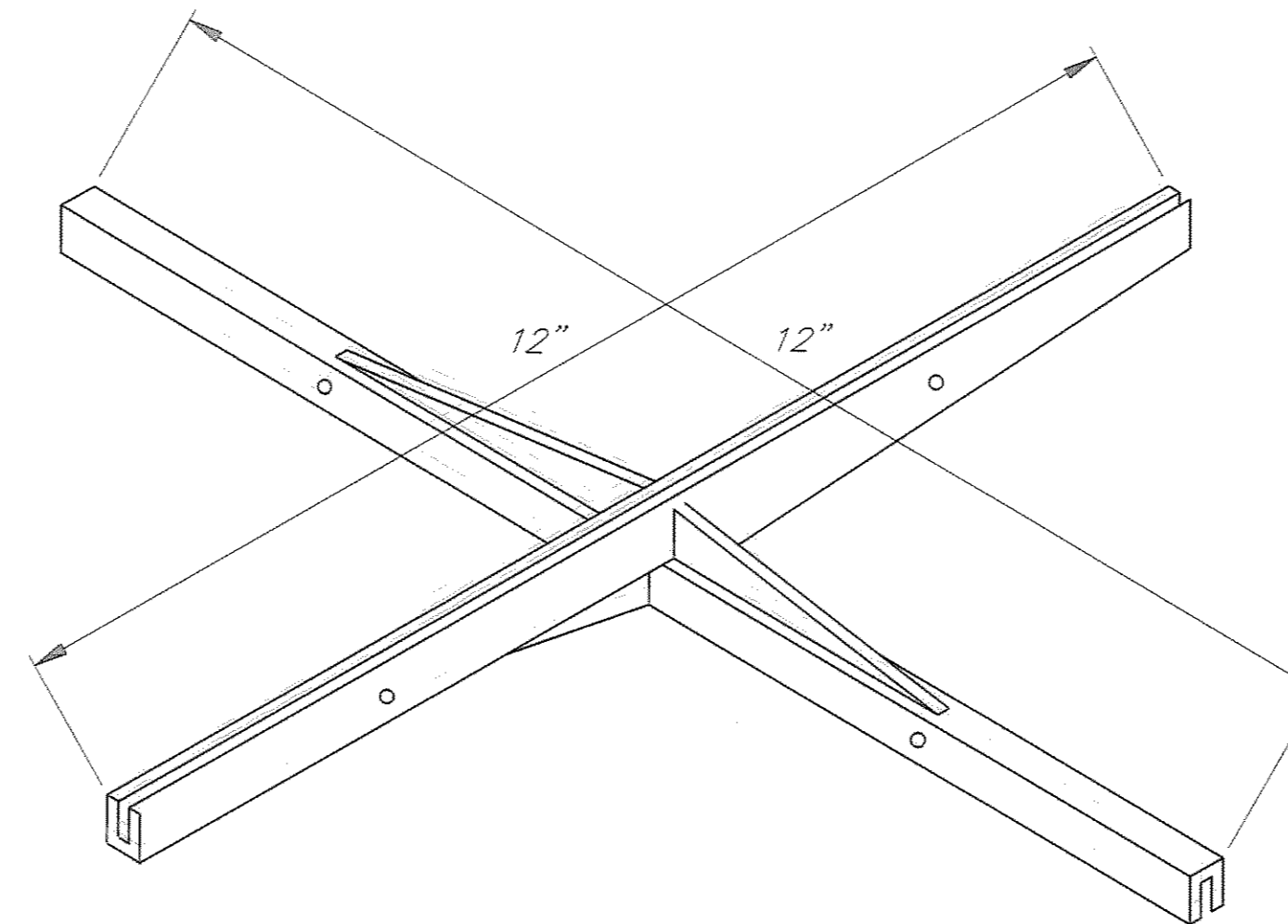
POST NO.	STATION	OFFSET		TYPE	FACING	LEGEND	SIZE		AREA	POST SIZE	REMARKS
		LT	RT				WD	HT			
1	18+38		x	R6-1R	SB	ONE WAY	36	12	3.0	2.5"	
2	18+38		x	R6-1L	WB	ONE WAY	36	12	3.0	2.5"	
3	18+90		x	R7-101L	WB	← NO PARKING ANYTIME	12	18	1.50	2"	MOUNT BACK TO BACK WITH SIGN 4
4	18+90		x	R7-108	EB	1 HR PARKING 8AM TO 6 PM	12	18	1.50		MOUNT BACK TO BACK WITH SIGN 3
5	19+90		x	W 11-2	SB	ADVANCE PED XING (SYMBOL)	36	36	9.00	2.5"	
6	20+20		x	R6-1L	SB	ONE WAY	36	12	3.00	2.5"	MOUNT BACK TO BACK WITH SIGN 7
7	20+20		x	R6-1R	NB	ONE WAY	36	12	3.00	2.5"	MOUNT BACK TO BACK WITH SIGN 6
8	21+65		x	R7-101L	SB	← NO PARKING ANYTIME	12	18	1.50	2"	
9	21+35	x		R7-101R	NB	NO PARKING ANYTIME →	12	18	1.50	2"	
10	22+05	x		W 11-2	SB	ADVANCE PED XING (SYMBOL)	36	36	9.00	2.5"	
11	23+93	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50		BAND TO LUMINAIRE
12	23+75		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
13	26+00		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
14	25+50	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50	2"	
15	27+00	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50	2"	
16	27+00		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
17	29+70	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50		BAND TO LUMINAIRE
18	29+70		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
19	30+00	x		R2-1	NB	SPEED LIMIT 20	30	36	7.50	2.5"	
20	31+35	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50		BAND TO LUMINAIRE
21	31+35		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
22	33+30	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50		BAND TO LUMINAIRE
23	35+25	x		R7-1-1RL	NB	← NO PARKING ANYTIME →	12	18	1.50		BAND TO LUMINAIRE
24	34+00		x	R7-1-1RL	SB	← NO PARKING ANYTIME →	12	18	1.50	2"	
25	36+00		x	R1-1	EB	STOP	30	30	6.25	2.5"	
26	37+00	x		R2-1	NB	SPEED LIMIT 20	30	36	7.50	2.5"	
27	37+00		x	R2-1	SB	SPEED LIMIT 40	30	36	7.50	2.5"	
28	53+50		x	R1-1	EB	STOP	30	30	6.25	3"P	SEE NOTE 11
29	53+50		x	D3-1	NB/SB	MT ROBERTS ST	42	6.75	1.97		MOUNT ON SAME POST AS 29
30	53+50	x		D3-1	EB	THANE RD	24	6.75	1.12		MOUNT ON SAME POST AS 29
31	31+30		x	W11-2	SB	ADVANCED PED XING (SYMBOL)	36	36	9.0	2.5"	
32	32+20	x		W11-2	NB	ADVANCED PED XING (SYMBOL)	36	36	9.0	2.5"	
33	41+30	x		R2-5A	NB	REDUCED SPEED AHEAD	30	36	7.5	2.5	
34	55+00		x	R2-1	SB	SPEED LIMIT 40	30	36	7.5	2.5	
35	55+00	x		R2-1	NB	SPEED LIMIT 45	30	36	7.5	2.5	

GENERAL SIGNING NOTES

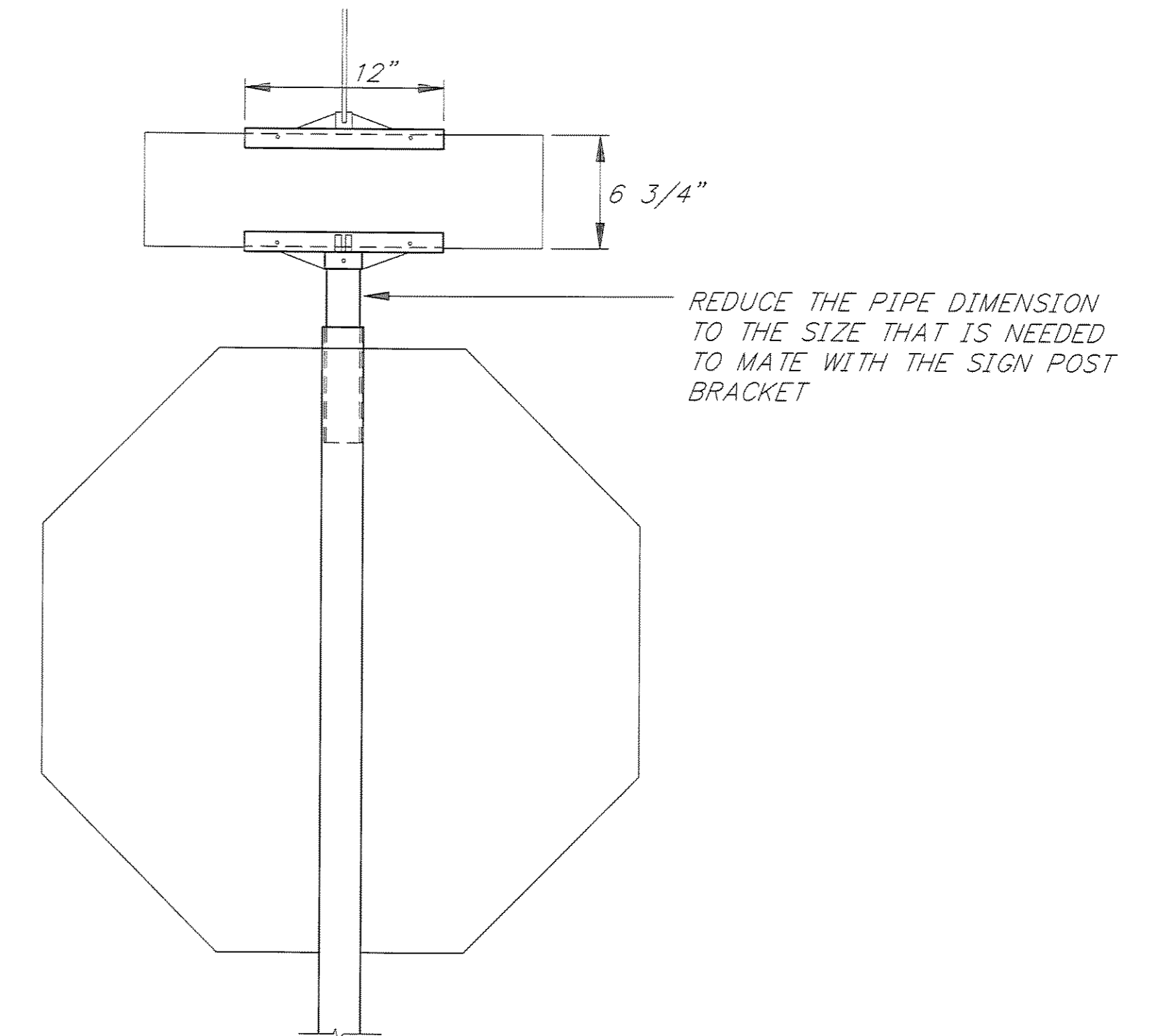
1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS OR STEEL PIPES.
4. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
5. ALL EXISTING SIGNS NOT BEING RELOCATED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA D.O.T./P.F. MAINTENANCE STATION AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO 615(1).
6. ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES, AND BE THE EXTRUDED BLADE TYPE.
7. SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN IS A MINIMUM HEIGHT OF 7' ABOVE THE ROADWAY SURFACE.
8. SEE STANDARD DRAWING S-05.00 FOR LATERAL CLEARANCE TO SIGNS.
9. SEE STANDARD DRAWING S-30.01 FOR POST EMBEDMENT DETAILS.
10. PRIOR TO INSTALLING POSTS, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING AND NEW UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS AND TELEPHONE AND ELECTRICAL CABLES. ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.
11. STEEL PIPES WILL HAVE MULTI DIRECTIONAL BREAKWAY COUPLINGS AS PER STANDARD SPEC 615-2-01.



**TYPICAL HEAVY DUTY
SIGN TO POST BRACKET**



**TYPICAL HEAVY DUTY SIGN
TO SIGN CROSS BRACKET**



SIGN POST DETAIL

PATH: P:\JNU\70134\DR\SIGNSUM		
PLOT: P:\-LIB\-PLOT\PL0T.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

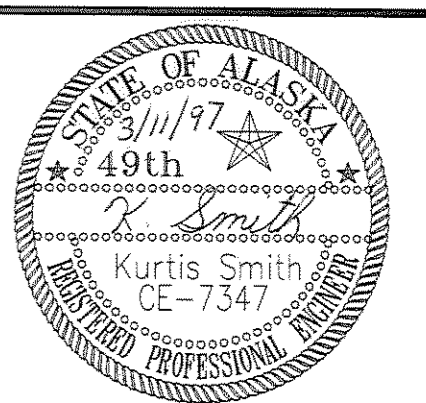
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

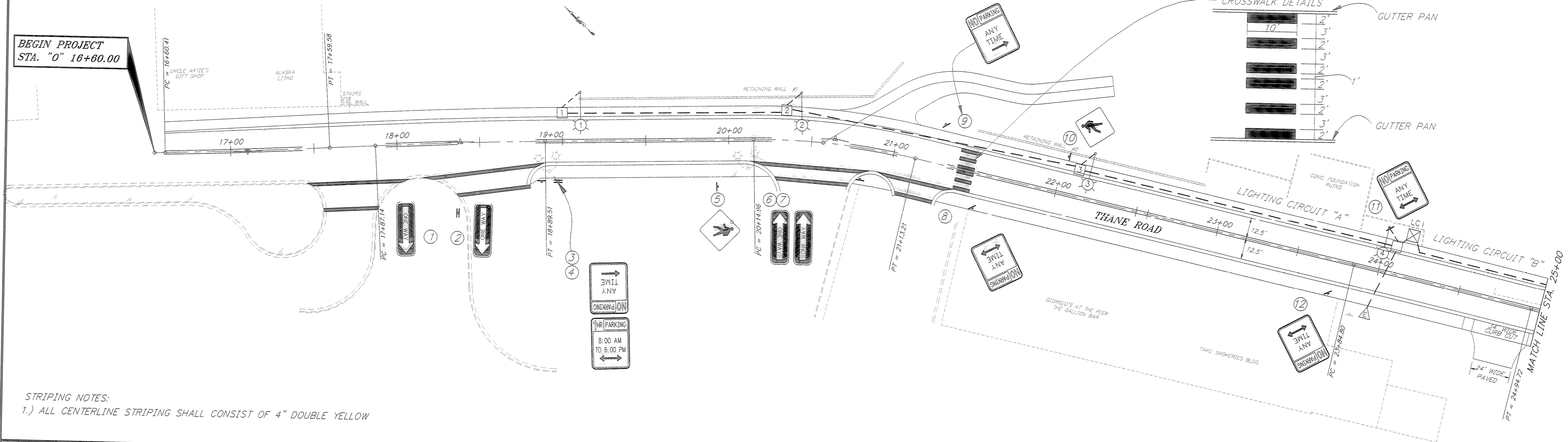
THANE ROAD RECONSTRUCTION
ALASKA
FED. NO. STP-F-M-0963(1) ~ PROJECT NO. 70134
SIGNING SUMMARIES

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

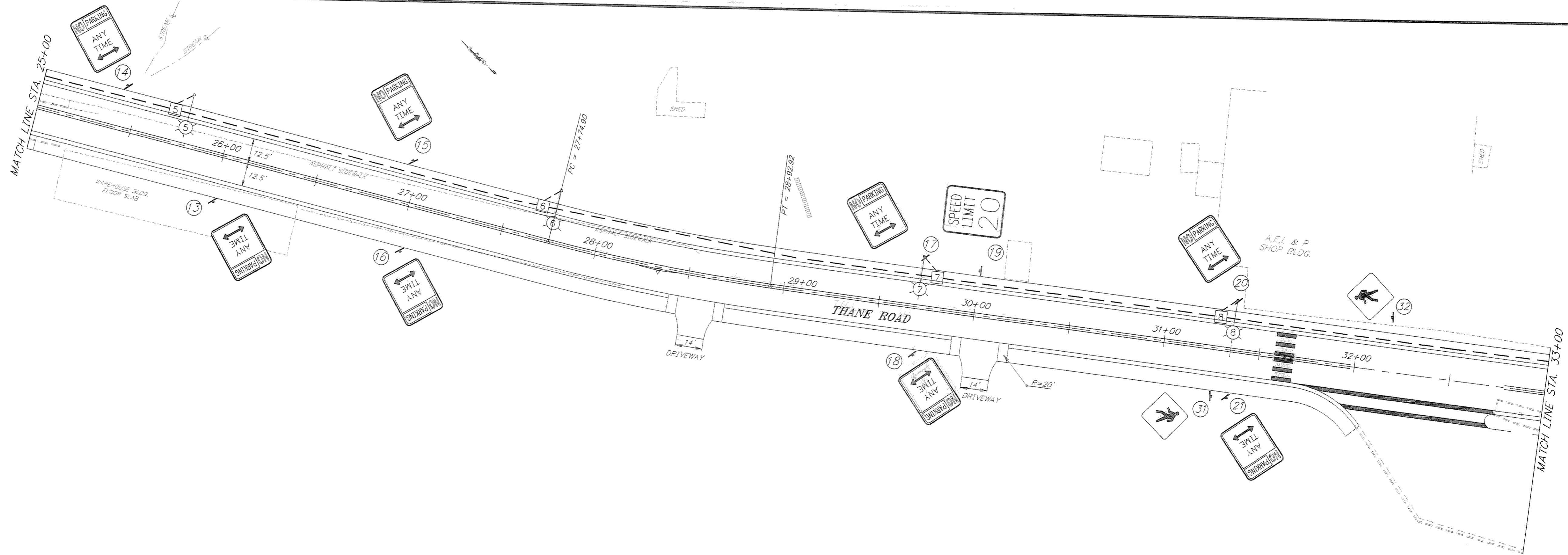
DESIGNED BY: R. PURVES	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: K. SMITH	SHEET 50 OF 59



BEGIN PROJECT
STA. "0" 16+60.00



STRIPING NOTES:
1.) ALL CENTERLINE STRIPING SHALL CONSIST OF 4" DOUBLE YELLOW



DTWIST 47'

PATH:	P:\JNU\70134\DR\ -SIGN1	
PLOT:	P:\-LIB\ -PLOT\ PLOT.F.PCP(30) OR PLOTH.PCP(60)	
BY:	DATE:	DESCRIPTION OF CHANGE:

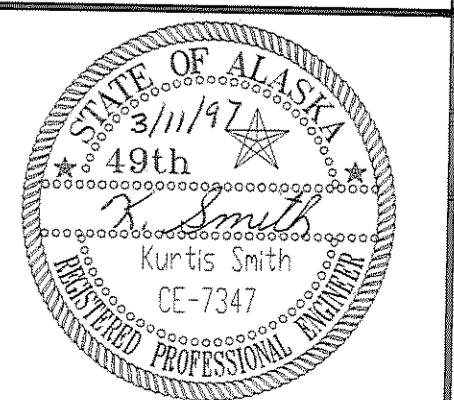
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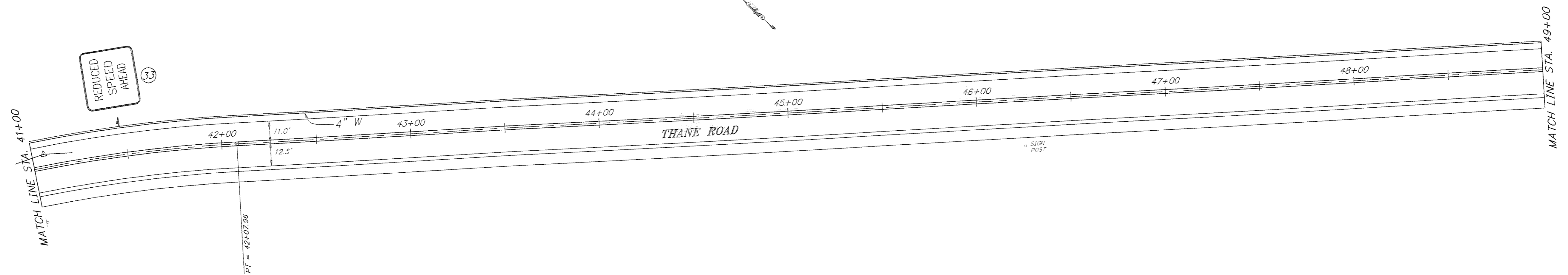
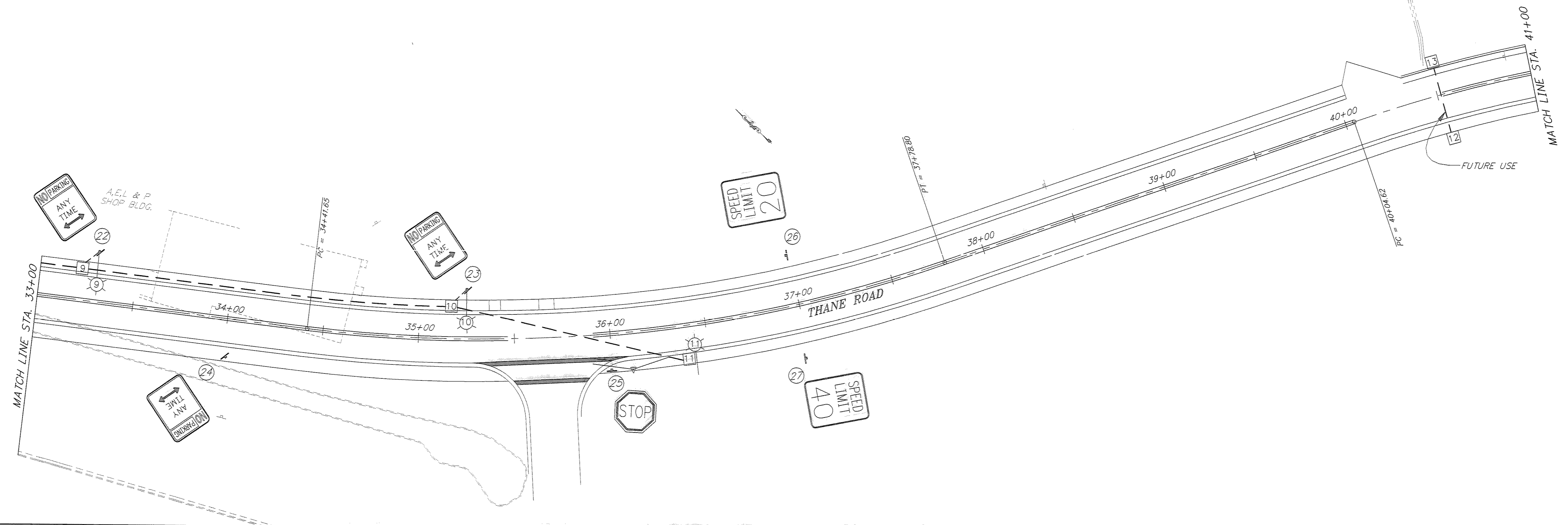
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
ALASKA
B.O.P. STA. 16+60 TO STA. 33+00
SIGNING, STRIPING & ILLUMINATION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:	R. PURVES	PROJECT NO.	70134
DRAWN BY:	K. MATTSON	DATE:	FEB. 1997
CHECKED BY:	K. SMITH	SHEET	51 OF 59





DTWIST 47'

PATH: P: \JNU\70134\DR\ -SIGN2		
PLOT: P: \-LIB\ -PLOT\ PLOT.F.PCP(30) OR PLOT.H.PCP(60)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU

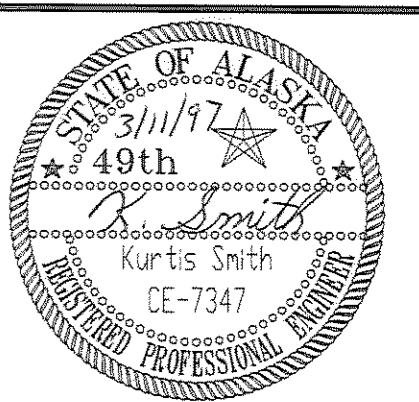
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
STA. 33+00 TO STA. 49+00
SIGNING, STRIPING & ILLUMINATION

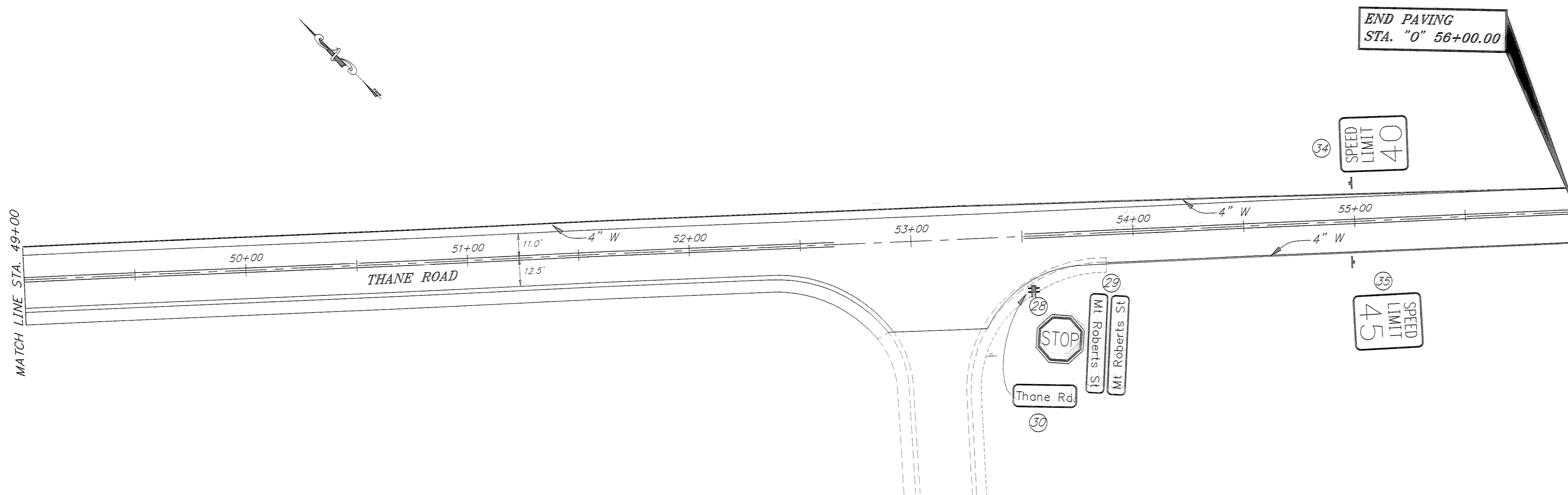
ALASKA

DESIGNED BY: R. PURVES
DRAWN BY: K. MATTSON
CHECKED BY: K. SMITH

PROJECT NO. 70134
DATE: FEB. 1997
SHEET 52 OF 59

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





DTWIST 47

PATH: P:\JNU\70134\DR\ -SIGN3		
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(30) OR PLOT.H.PCP(60)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
STA. 49+00 TO E.O.P. STA. 65+00
SIGNING, STRIPING & ILLUMINATION

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

ALASKA

DESIGNED BY:
R. PURVES/K. MATTSON

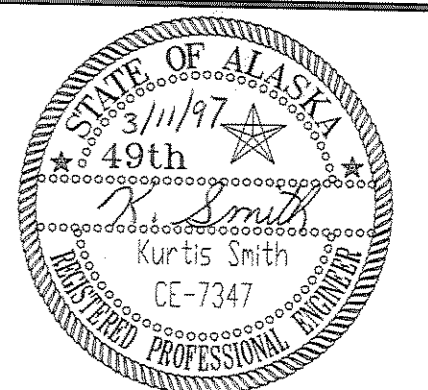
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K. MATTSON

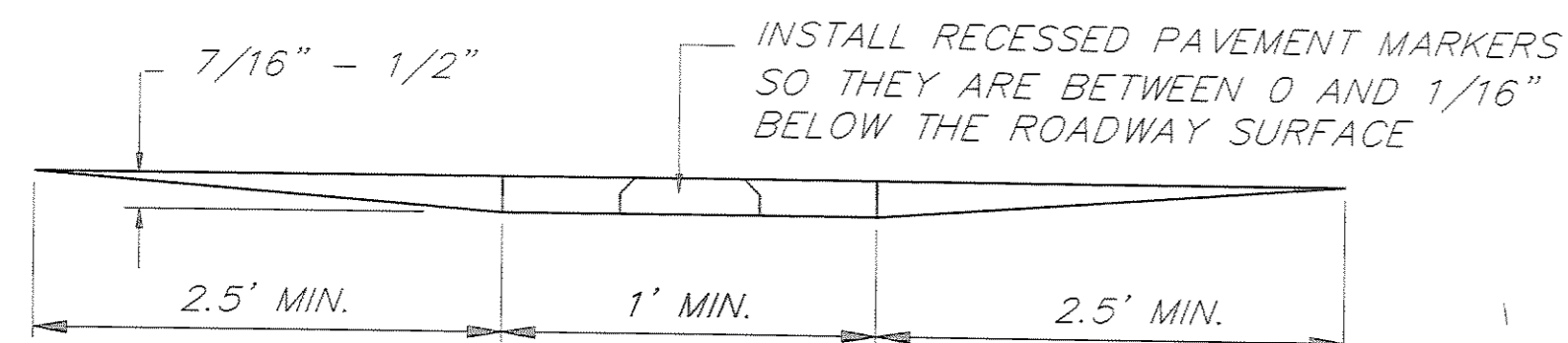
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K. SMITH

PROJECT NO.
70134

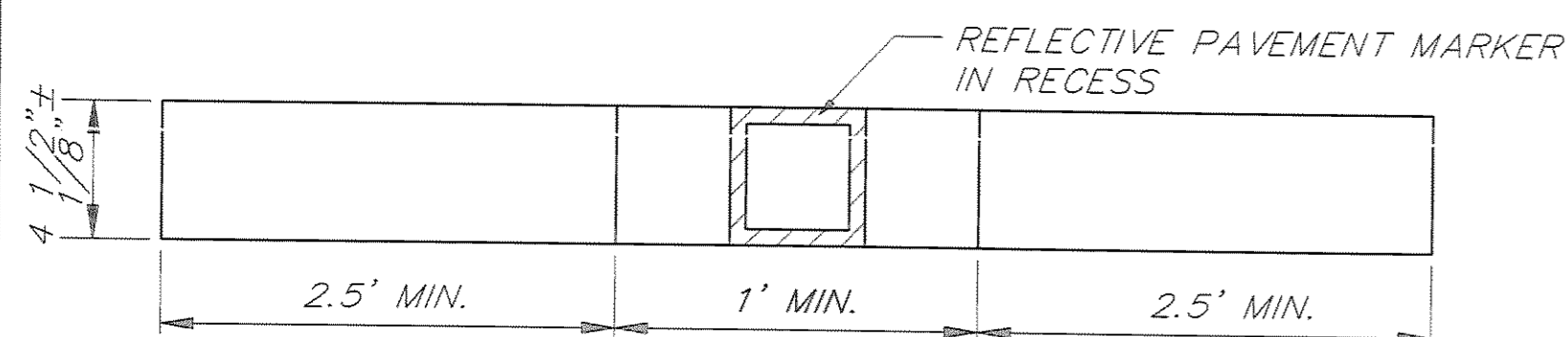
DATE:
FEB. 1997

SHEET 53 OF 59

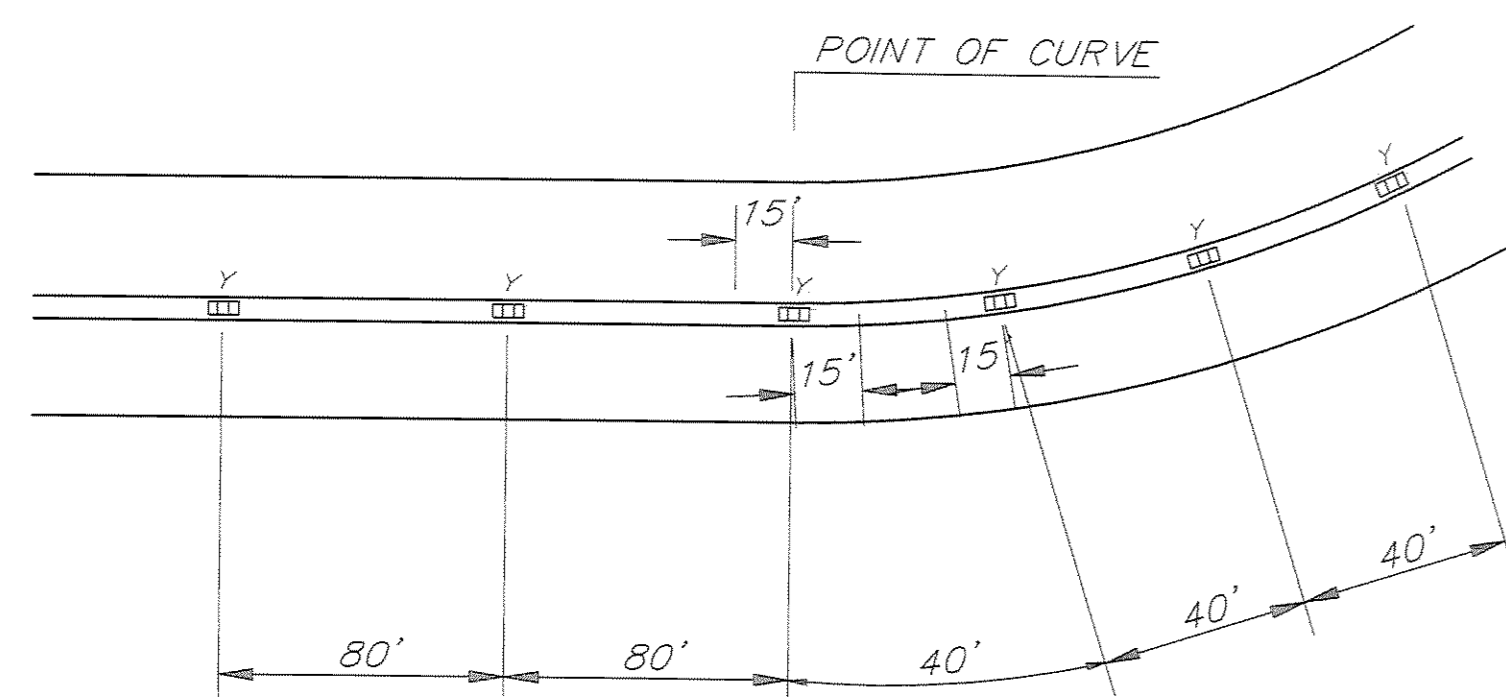




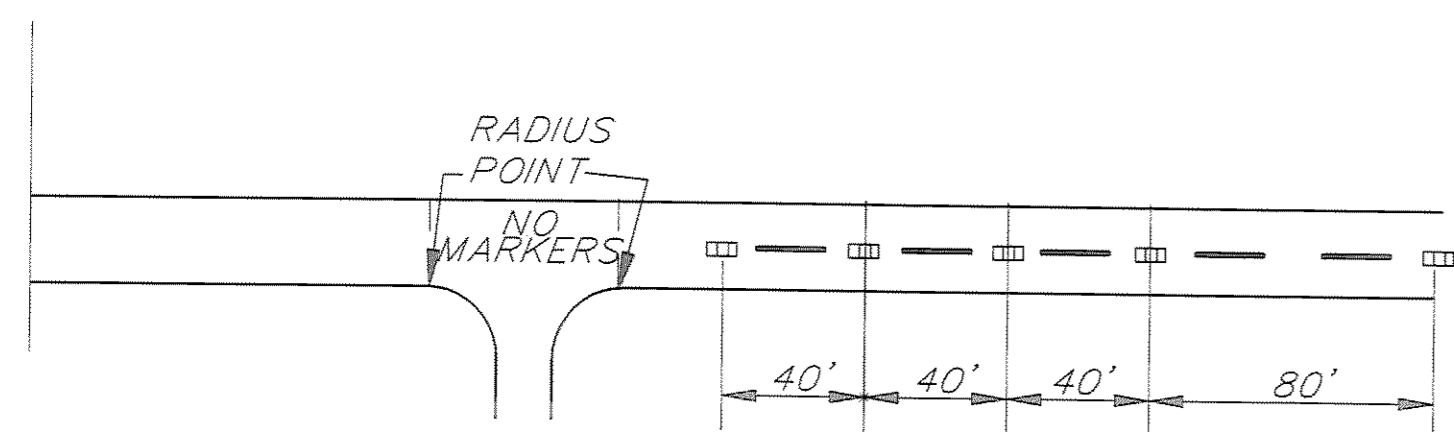
**SECTION X-X
RECESSED PAVEMENT MARKER**



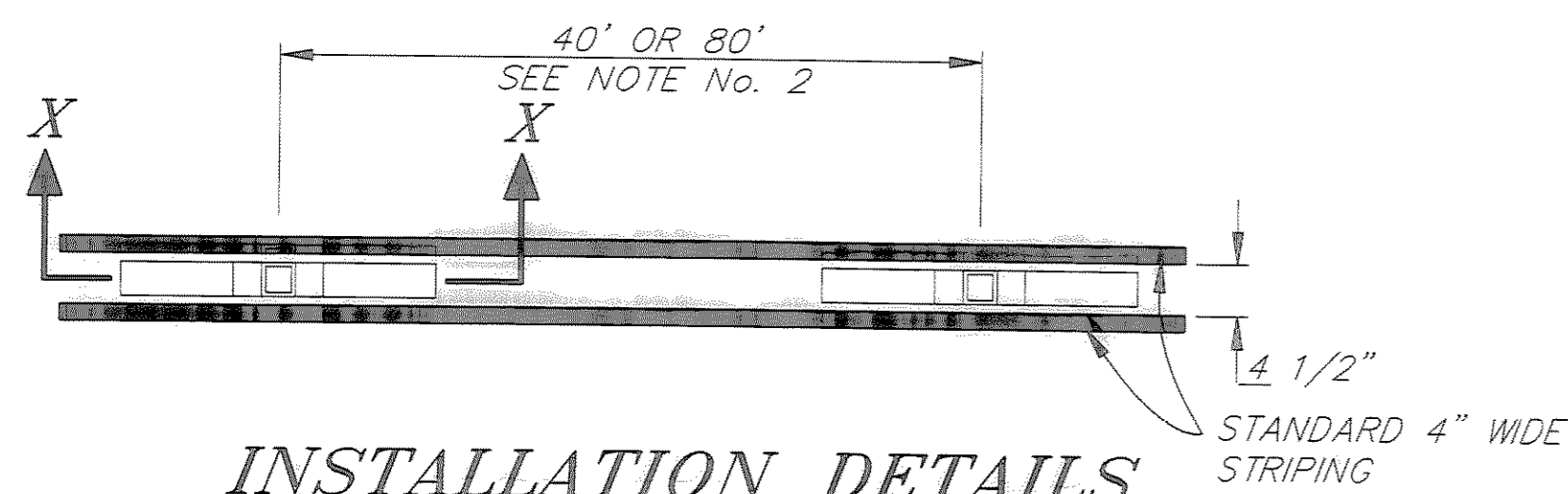
**PLAN
RECESSED PAVEMENT MARKER**



**TWO LANE, TWO WAY DETAIL
RECESSED PAVEMENT MARKER**



**INTERSECTION APPROACH DETAIL
RECESSED PAVEMENT MARKER**



**INSTALLATION DETAILS
RECESSED PAVEMENT MARKER**

R.P.M. SUMMARY TABLE

BEGIN STATION	END STATION	SPACING		QUANTITY	COMMENTS
		80	40		
36+00	36+20		X	4	USE INTERSECTION DETAIL
36+20	40+00	X		5	
40+00	42+00		X	5	
42+00	51+20	X		11	
51+20	52+40		X	4	USE INTERSECTION DETAIL
53+90	55+10		X	4	USE INTERSECTION DETAIL
55+10	56+00	X		1	

NOTES:

1. RPM SPACING SHALL START OVER AT INTERSECTION BOUNDARY.
2. ONLY PUBLIC ROADWAYS WILL BE MARKED AS INTERSECTION APPROACHES.
3. REFLECTIVE PAVEMENT MARKERS SHALL HAVE DUAL YELLOW REFLECTIVE SURFACES.
4. RPM'S SHALL BE INSTALLED FROM STATION 36+00 TO E.O.P.

RECORD OF REVISIONS		
PATH:	P:\JNU\70134\DR\DETAIL1	
PLOT:	P:\LIB_-PLOT\PLT\F.PCP(1) OR PLOTH.PCP(2)	
BY:	DATE:	DESCRIPTION OF CHANGE:

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

JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134

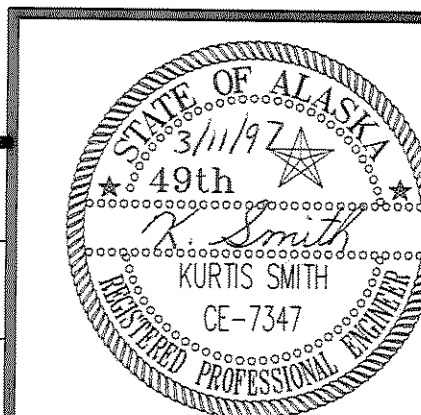
ALASKA

RECESSED PAVEMENT MARKER & DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

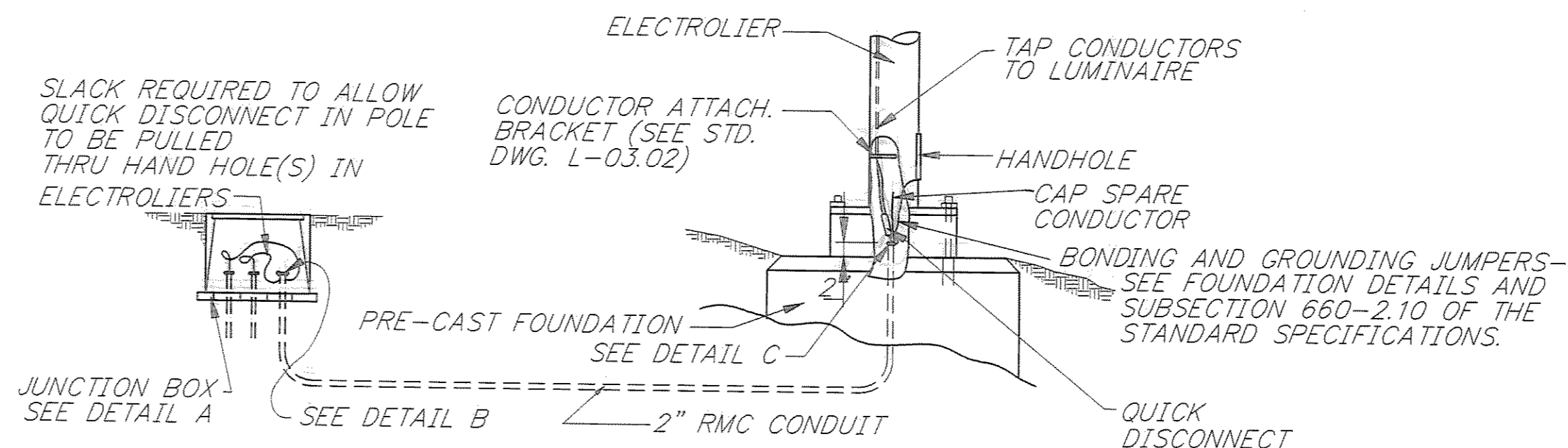
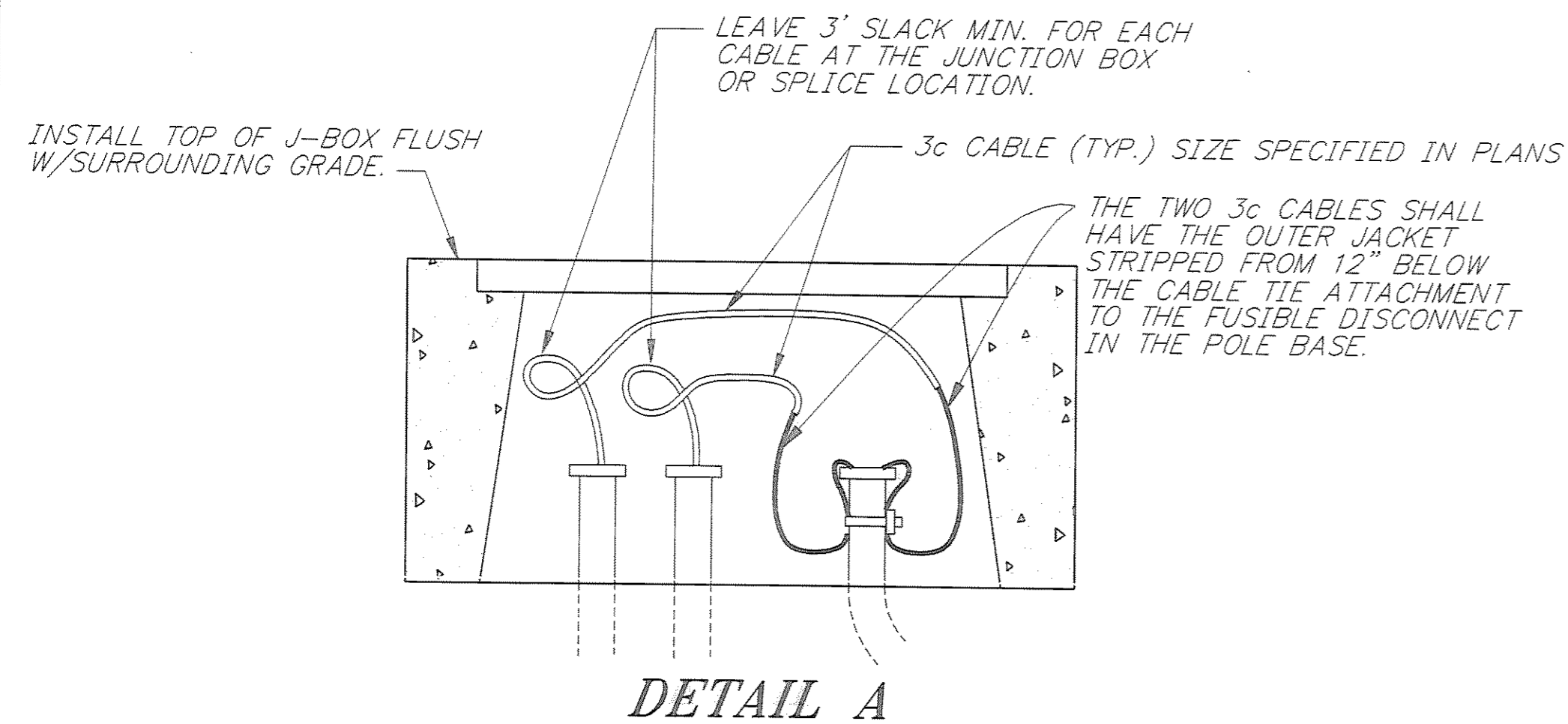
DESIGNED BY:	L. GREGOVICH	PROJECT NO.	70134
DRAWN BY:	AutoCAD/R. SNYDER	DATE:	FEB. 1997
CHECKED BY:	A. STEININGER		

SHEET 54 OF 59

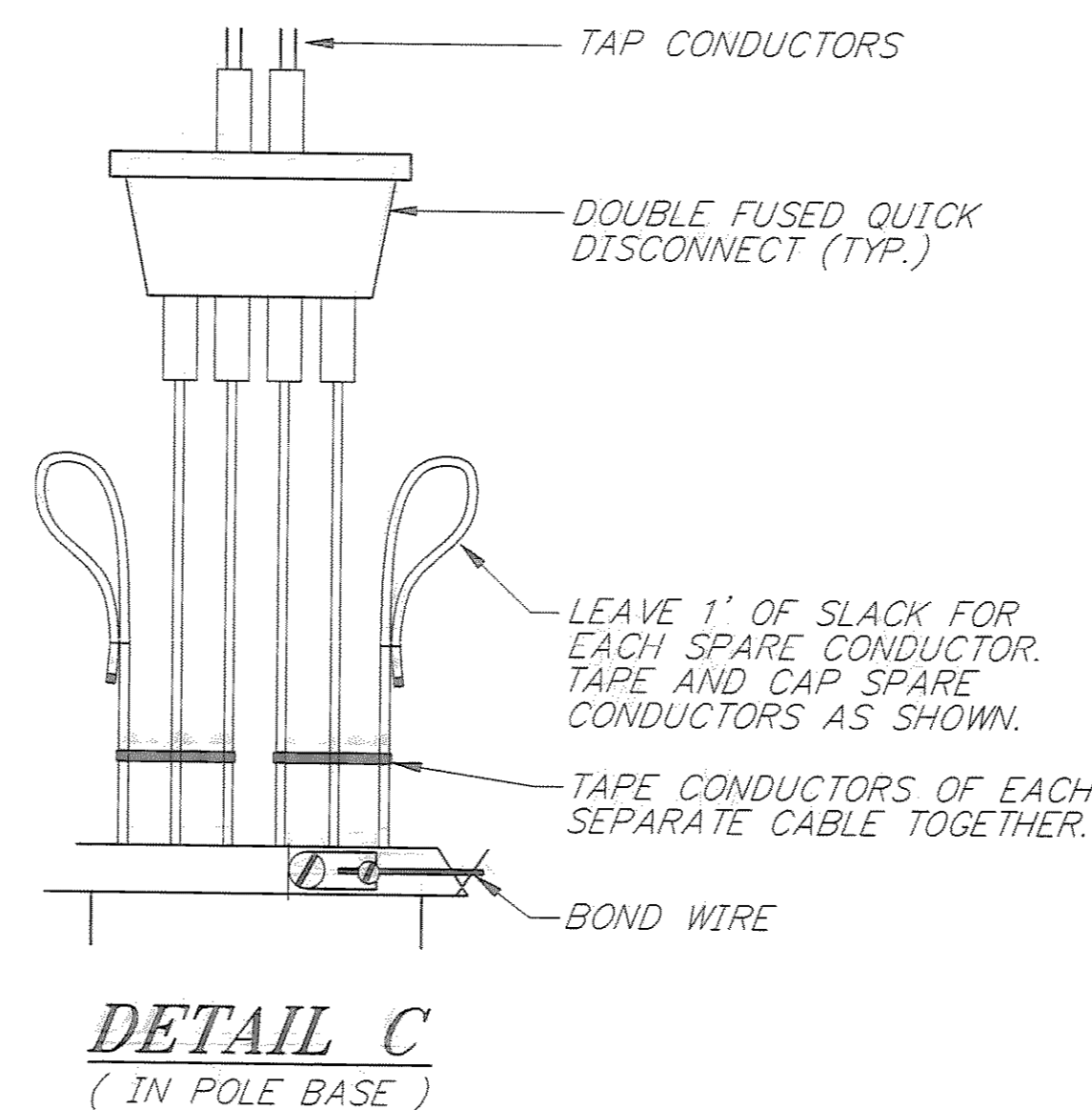
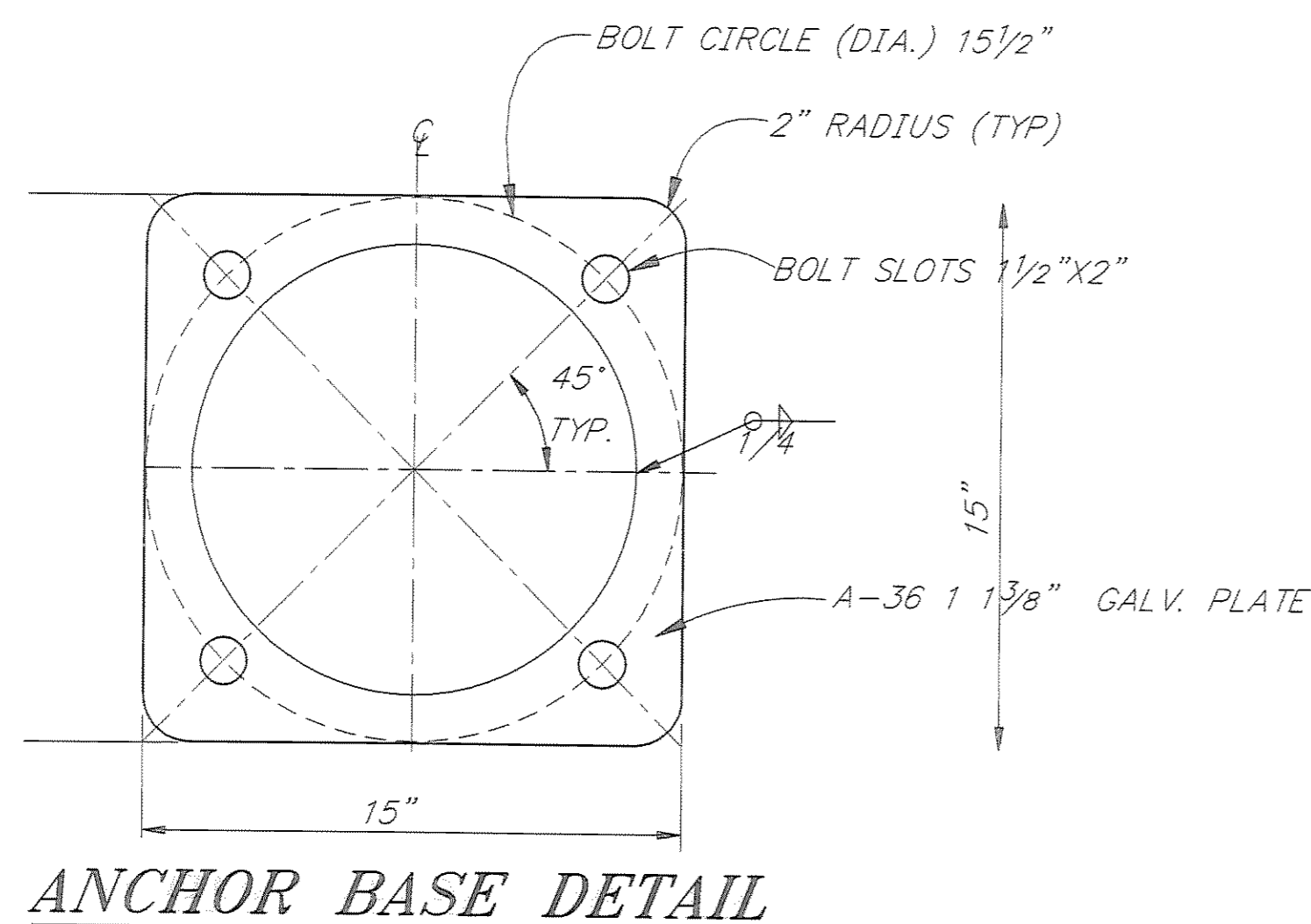


ILLUMINATION NOTES

1. ELECTROLIERS #1 THROUGH #11 SHALL BE INSTALLED WITH NON-BREAKING BASES.
2. WHEN TRANSPORTING THE PRE-CAST FOUNDATIONS, THE CONTRACTOR SHALL ENSURE THAT THE LOAD IS BEING CARRIED BY MORE THAN ONE ANCHOR BOLT.
3. ALL WIRING SHALL BE IN 2 INCH RIGID METAL CONDUIT.
4. EACH ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
5. ALL JUNCTION BOXES SHALL BE TYPE I, SEE STANDARD DRAWING L-23.01.
6. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED THROUGH ALL CONDUITS. THE GROUND CONDUCTOR SHALL BE ATTACHED TO ALL CONDUIT END BUSHINGS, POLES, AND ANCHOR BOLTS AS SHOWN IN THESE PLANS.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT FOR POWER CONNECTION BETWEEN THE TRANSFORMER AND THE LOAD CENTER. THE CONTRACTOR SHALL REQUEST AEL&P SERVICE BEFORE STARTING THIS PROJECT.
8. INSTALL THE PHOTOELECTRIC CELL ON TOP OF THE ELECTROLIER NEAREST TO THE LOAD CENTER.
9. LUMINAIRES SHALL BE 240 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUTOFF, TYPE III AND INSTALLED AT A MOUNTING HEIGHT OF 35 FEET.
10. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG, 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660-2.08.
11. PAYMENT FOR REMOVAL OF EXISTING LUMINAIRES SHALL BE SUBSIDIARY TO ITEM 660(3) HIGHWAY LIGHTING SYSTEM COMPLETE.
12. CONDUIT BETWEEN J-BOXES 12&13 SHALL MEET THE REQUIREMENTS OF SEC 660-2.05, CONDUIT FOR FUTURE USE.



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS
(BREAKAWAY COUPLINGS)



ILLUMINATION SCHEDULE

POLE NUMBER	STATION	OFFSET		MAST ARM LENGTH	POLE LENGTH	REMARKS
		LEFT	RIGHT			
1	19+10	26		12	31	LIGHTING CIRCUIT "A"
2	20+45	32		18	9	LIGHTING CIRCUIT "A"
3	22+15	32		18	15	LIGHTING CIRCUIT "A"
4	23+93	26		12	31	LIGHTING CIRCUIT "A"
5	25+80	26		12	31	LIGHTING CIRCUIT "B"
6	27+75	26		12	31	LIGHTING CIRCUIT "B"
7	29+70	26		12	31	LIGHTING CIRCUIT "B"
8	31+35	22		8	31	LIGHTING CIRCUIT "B"
9	33+30	24		10	31	LIGHTING CIRCUIT "B"
10	35+25	24		10	31	LIGHTING CIRCUIT "B"
11	36+45		22	8	31	LIGHTING CIRCUIT "B"

JUNCTION BOX & LOAD CENTER SCHEDULE

NUMBER	STATION	OFFSET		TYPE	REMARKS
		LEFT	RIGHT		
1	19+10	**		1	
2	20+45	**		1	
3	22+15	**		1	
4	23+98	**		1	
5	25+80	**		1	
6	27+60	**		1	
7	29+00	**		1	
8	30+85	**		1	
9	32+60	**		1	
10	34+35	**		1	
11	36+00	**		1	
12	40+50		21	1	FUTURE USE
13	40+50	16		1	FUTURE USE
LC1	24+00	27'		1	LOAD CENTER

** SEE J-BOX PLACEMENT DETAIL ON FOLLOWING SHEET

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

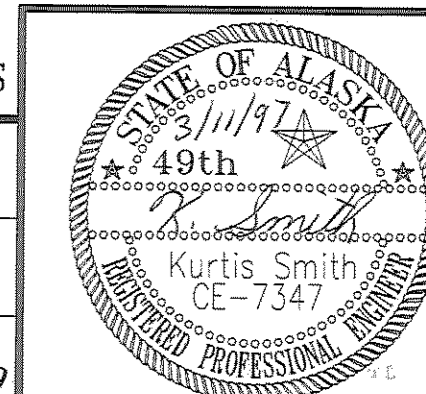
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

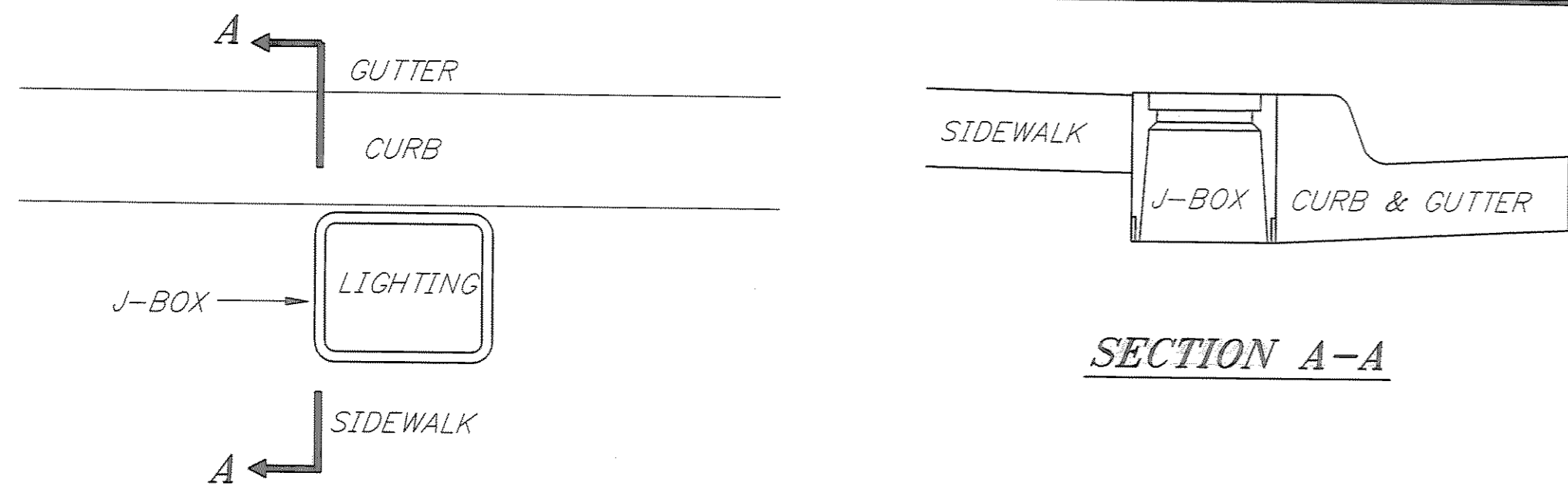
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

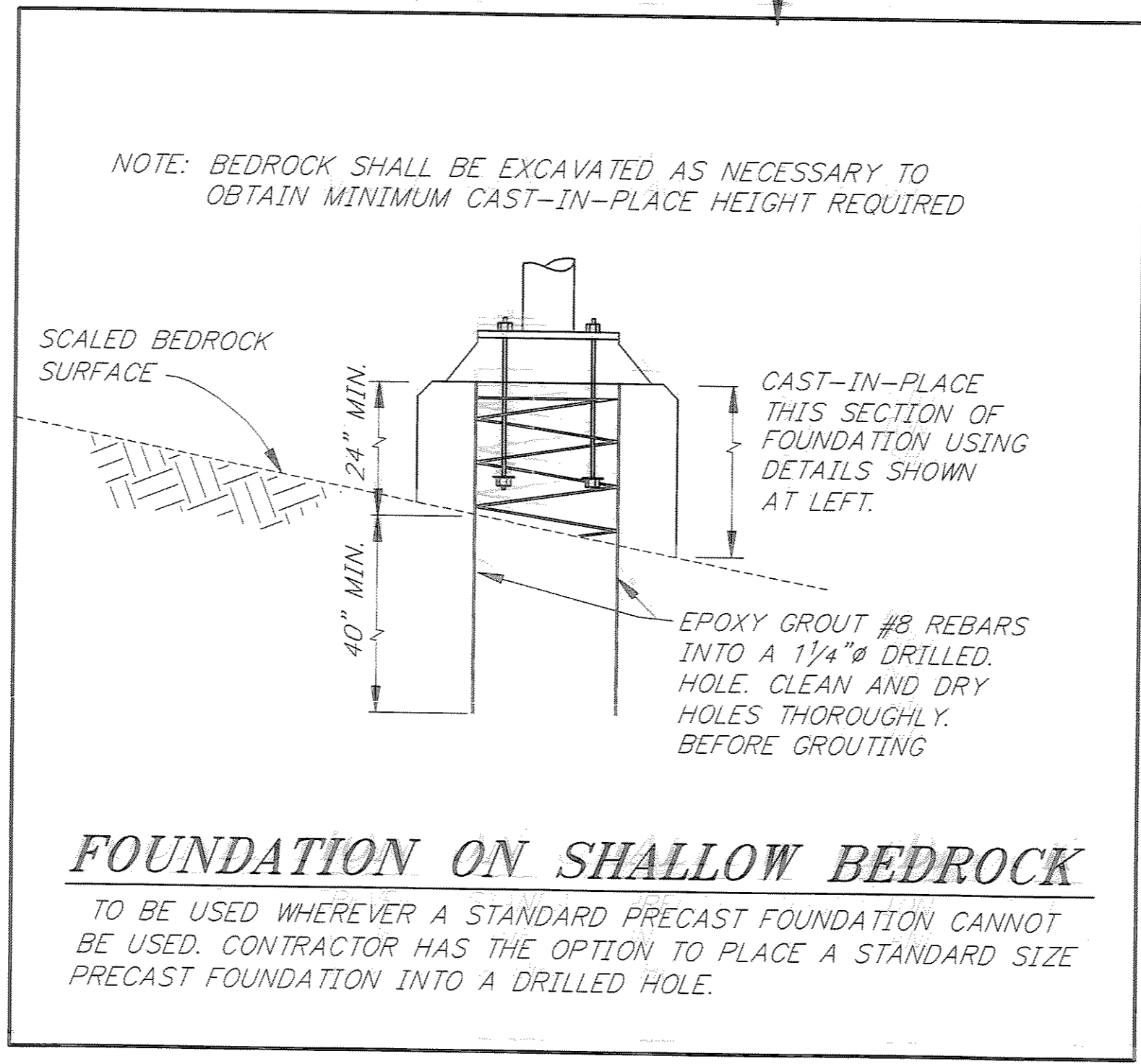
THANE ROAD RECONSTRUCTION
ALASKA
FED. NO. STP-F-M-0963(1) ~ PROJECT NO. 70134
LIGHTING DETAILS

DESIGNED BY: K. MATTSON	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: K. SMITH	SHEET 55 OF 59



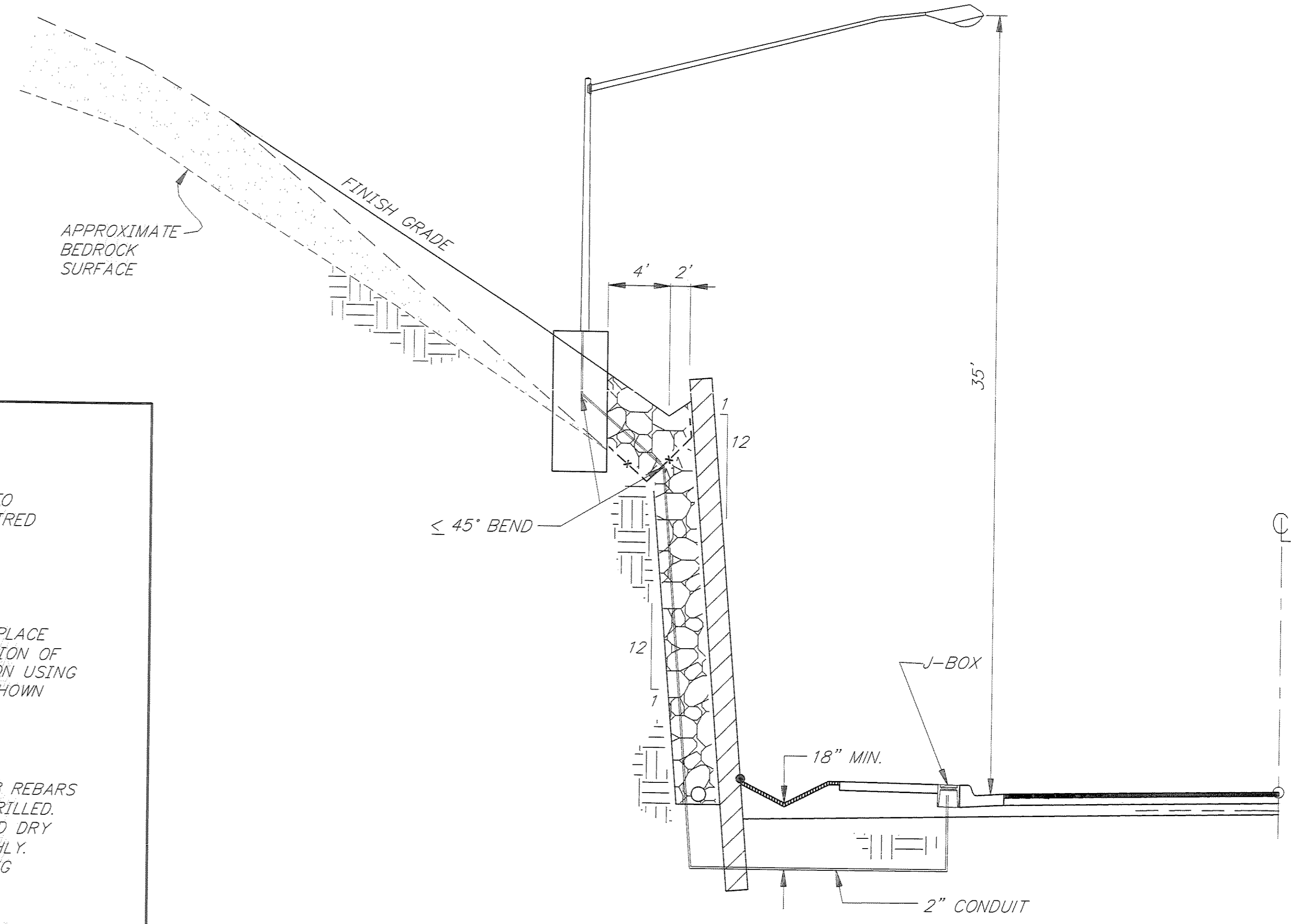


J-BOX PLACEMENT DETAIL
 N.T.S.
 LONG DIMENSION OF J-BOX
 TO BE PARALLEL TO CURB

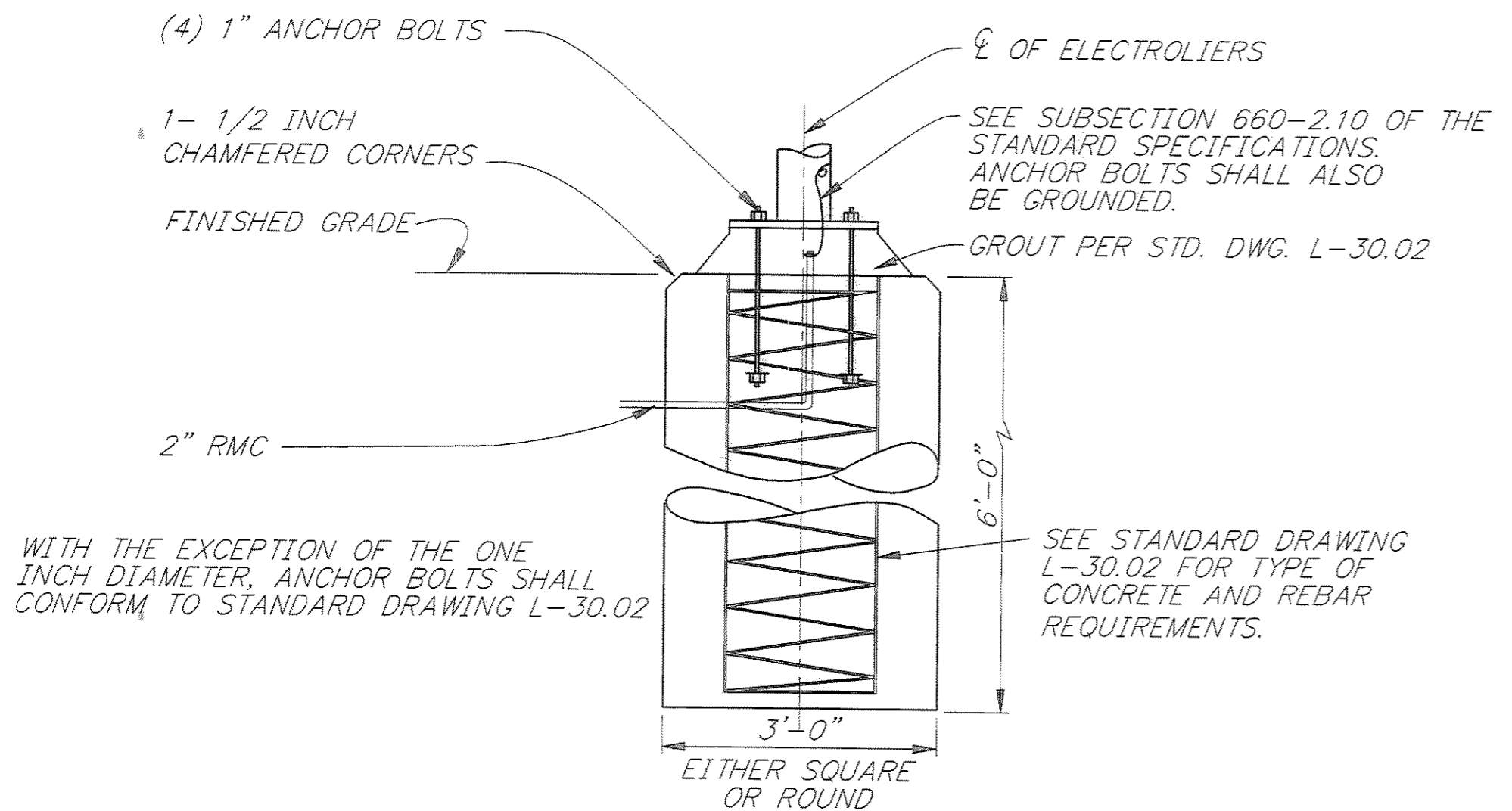


FOUNDATION ON SHALLOW BEDROCK

TO BE USED WHEREVER A STANDARD PRECAST FOUNDATION CANNOT BE USED. CONTRACTOR HAS THE OPTION TO PLACE A STANDARD SIZE PRECAST FOUNDATION INTO A DRILLED HOLE.



LUMINAIRE WALL FOUNDATION DETAIL



FOUNDATION WITH ANCHOR BOLTS (NON-BREAKAWAY)

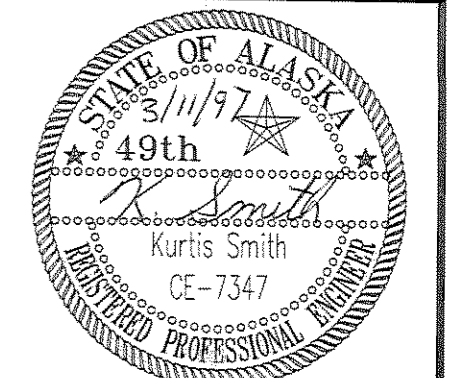
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

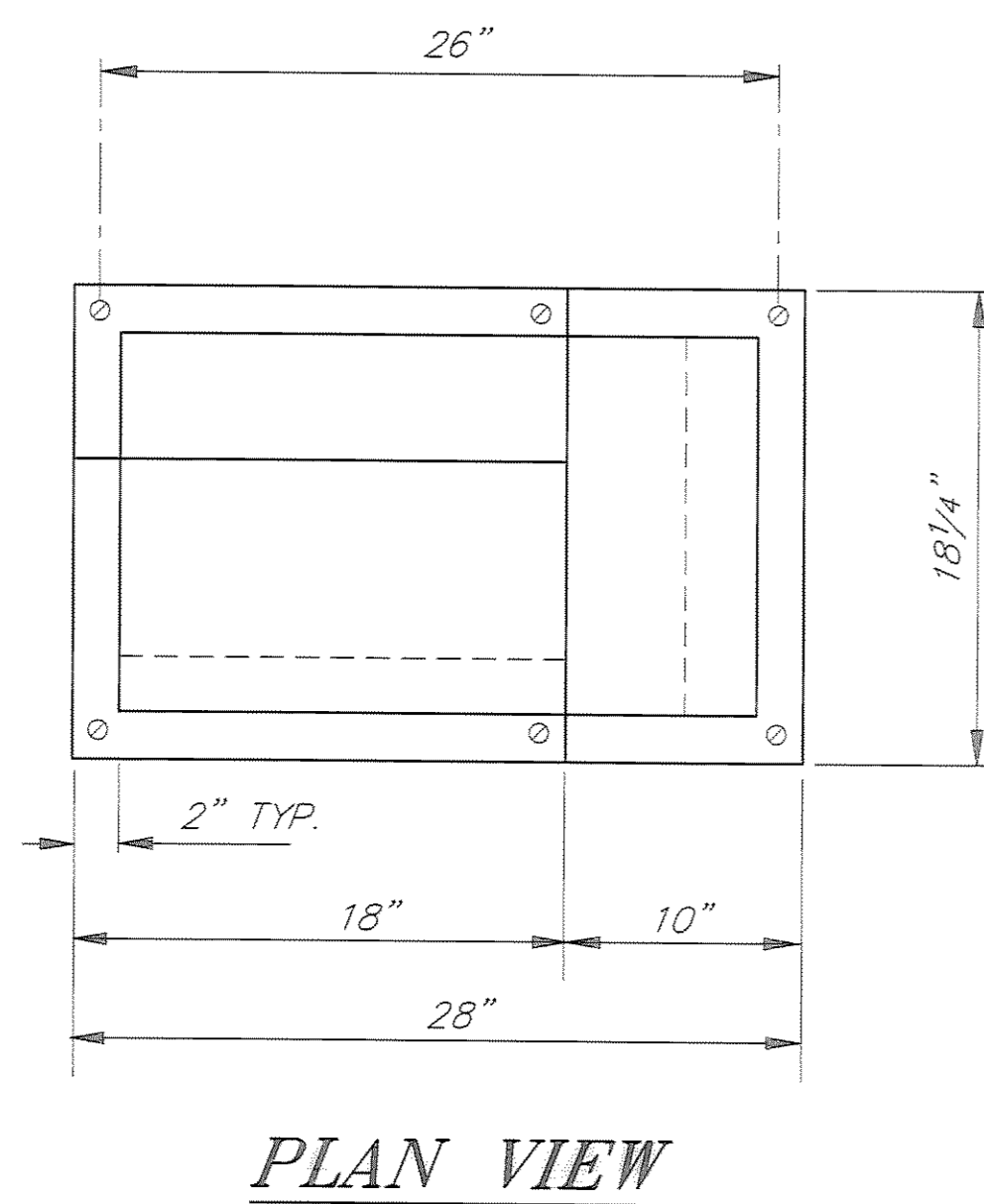
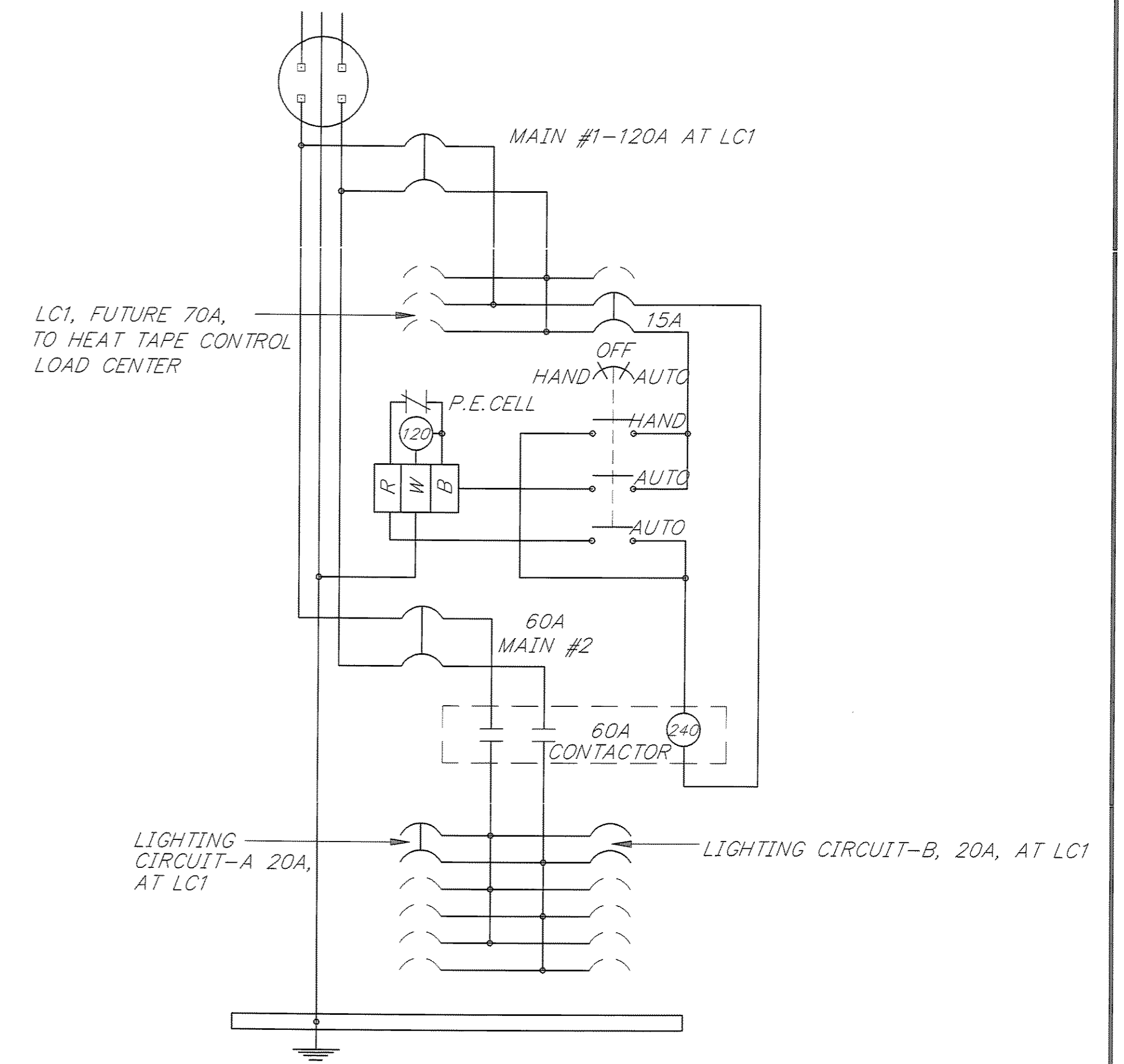
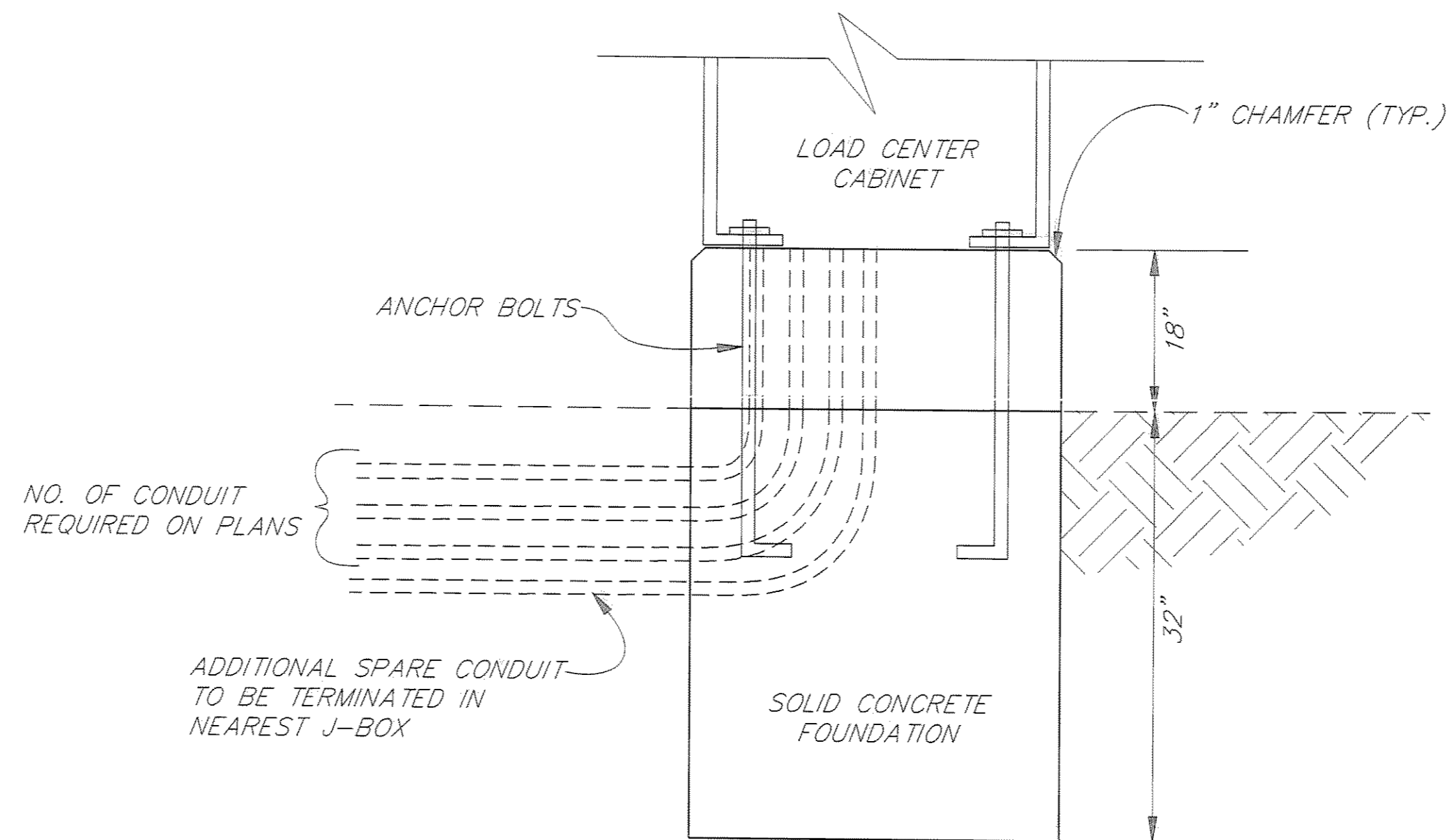
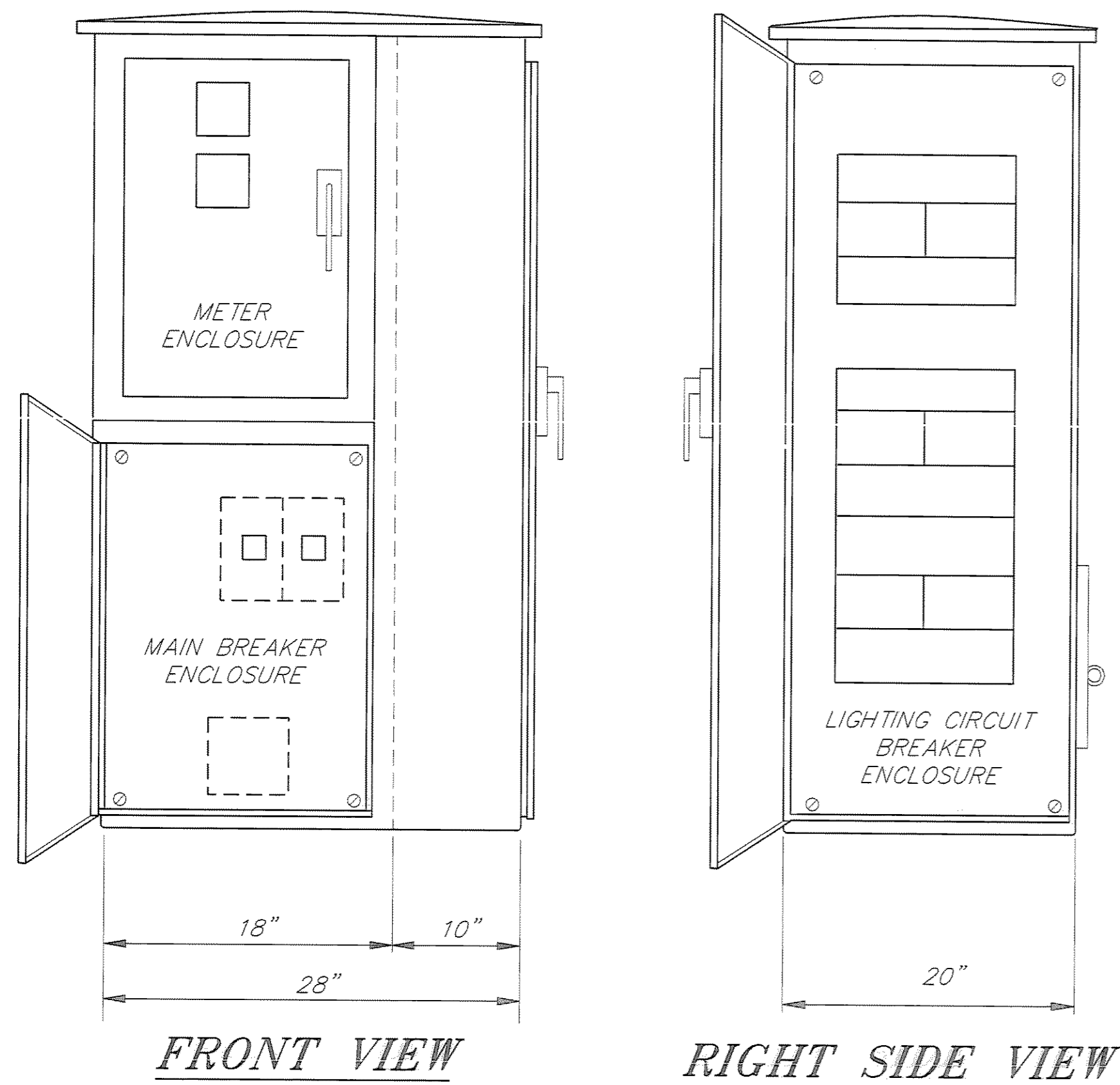
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 THANE ROAD RECONSTRUCTION
 ALASKA
 FED. NO. STP-F-M-0963(1) ~ PROJECT NO. 70134
LIGHTING DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: K. MATTSON	PROJECT NO. 70134
DRAWN BY: W. HICKOK	DATE: FEB. 1997
CHECKED BY: K. SMITH	SHEET 56 OF 59





LOAD CENTER FOUNDATION FRONT VIEW

LOAD CENTER NOTES

1. DIMENSIONS SHOWN ARE NOMINAL AND MAY VARY BETWEEN MANUFACTURERS.
2. ANCHOR BOLT PATTERN AND FOUNDATION SHALL BE CONSTRUCTED TO MATCH CABINET. FOUNDATION SHALL HAVE #3 REBAR AT 16" VERTICAL AND HORIZONTAL AROUND PERIMETER OF FOUNDATION, 3" CLEAR.
3. THE LOAD CENTERS SHALL BE 120/240 VOLT AND HAVE A SERVICE RATING OF 200 AMPERES.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	P: \JNU\70134\DR\LOADCEN
PLOT:	P: \LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.H.PCP(2)
BY:	
DATE:	
DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

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

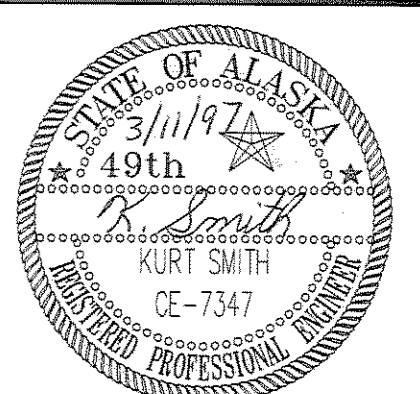
JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ 70134
LOAD CENTER, TYPE 1

ALASKA

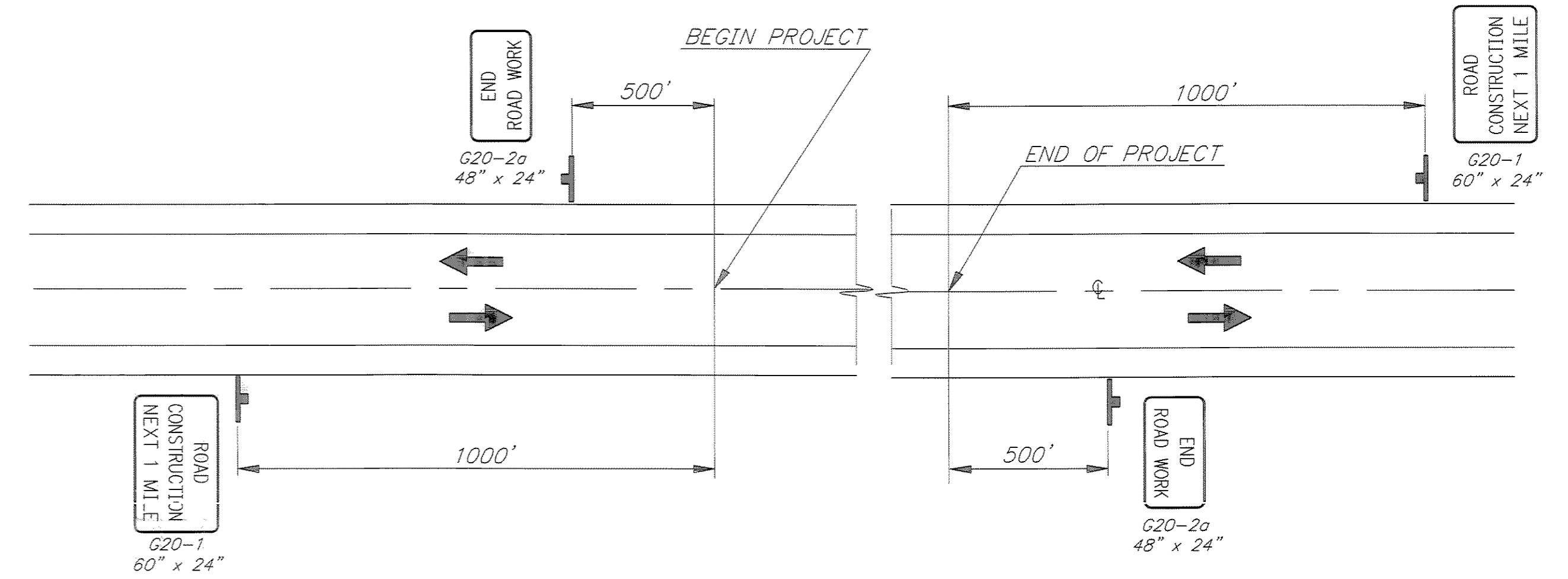
DESIGNED BY:
K. MATTSON
DRAWN BY:
K. KLEMMETSON
CHECKED BY:
K. SMITH

PROJECT NO.
70134
DATE:
FEB. 1997
SHEET 57 OF 59



TRAFFIC CONTROL NOTES

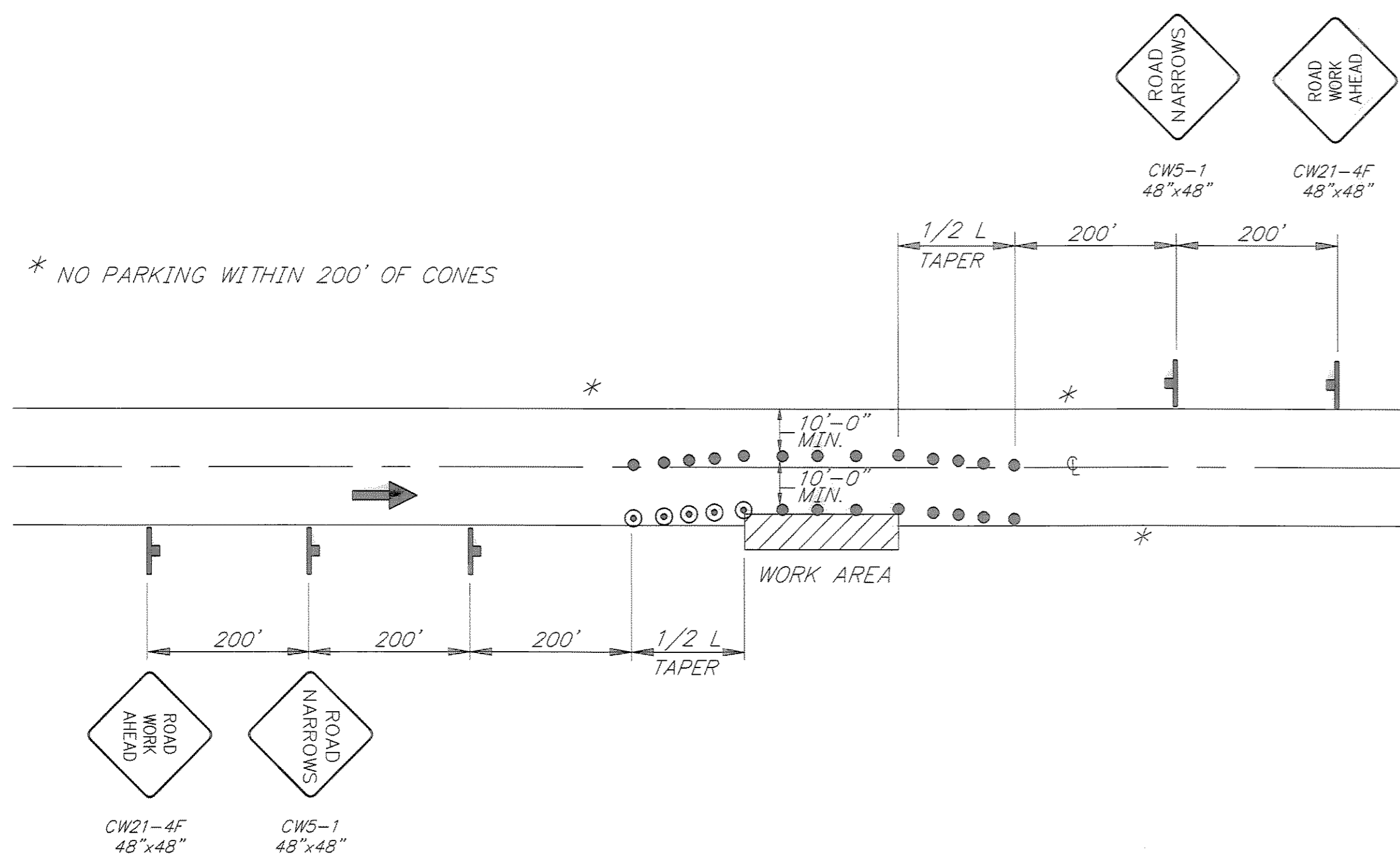
1. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS EXCEPT DURING BLASTING.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
5. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
6. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
7. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS LESS THAN 100' AND VISIBLE FROM THE FLAGGER STATION.
8. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
9. THE MAXIMUM LENGTH OF A ONE LANE, TWO-WAY WORK ZONE (FLAGGER SETUP) SHALL BE 1000 FT. AND THE MINIMUM SEPARATION BETWEEN WORK ZONES SHALL BE 1000'. IF VEHICLE STOP TIME EXCEEDS FIVE MINUTES, THE CONTRACTOR SHALL SHORTEN HIS WORK ZONE OR RESCHEDULE HIS WORK TO A LESS BUSY HOUR.
10. THE CONTRACTOR SHALL GIVE 24 HOURS ADVANCE NOTICE BEFORE WORKING ON DRIVEWAYS. THEY SHALL BE CONSTRUCTED A HALF AT A TIME TO PROVIDE ACCESS.
11. 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 SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS.



LEGEND

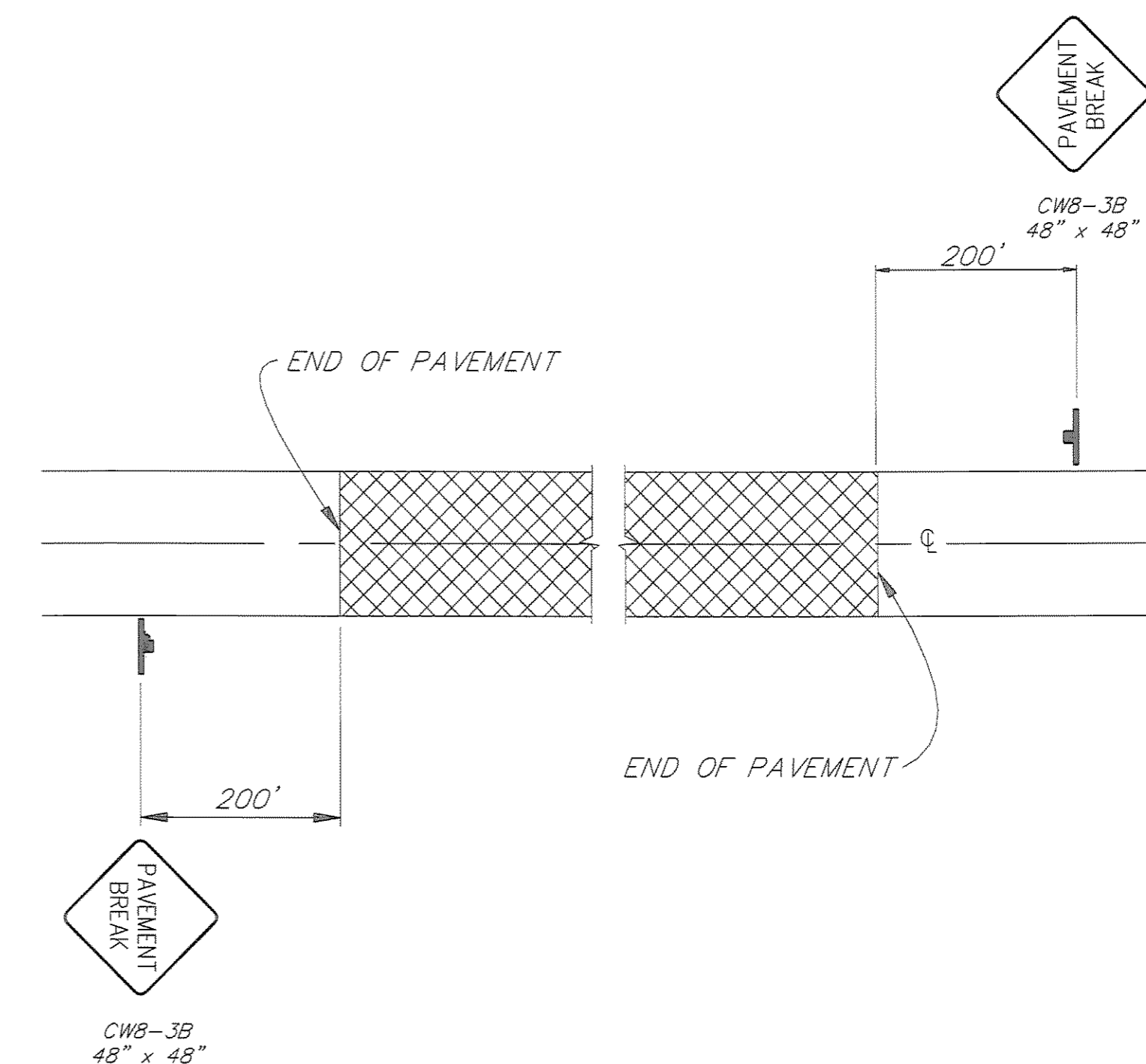
- SIGN
- CONE
- DRUM
- TYPE II BARRICADE
- FLAGGING STATION

PERMANENT CONSTRUCTION SIGNING



ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



SIGNING FOR UNPAVED AREA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\JNU\70134\DR\TCP1		
PLOT: P:\-LIB\-PLOT\PLOT.F.PCP(1) OR PLOT.H.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

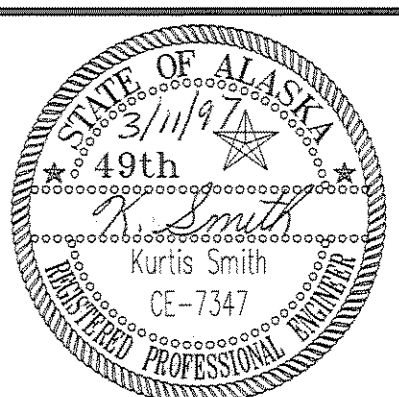
JUNEAU

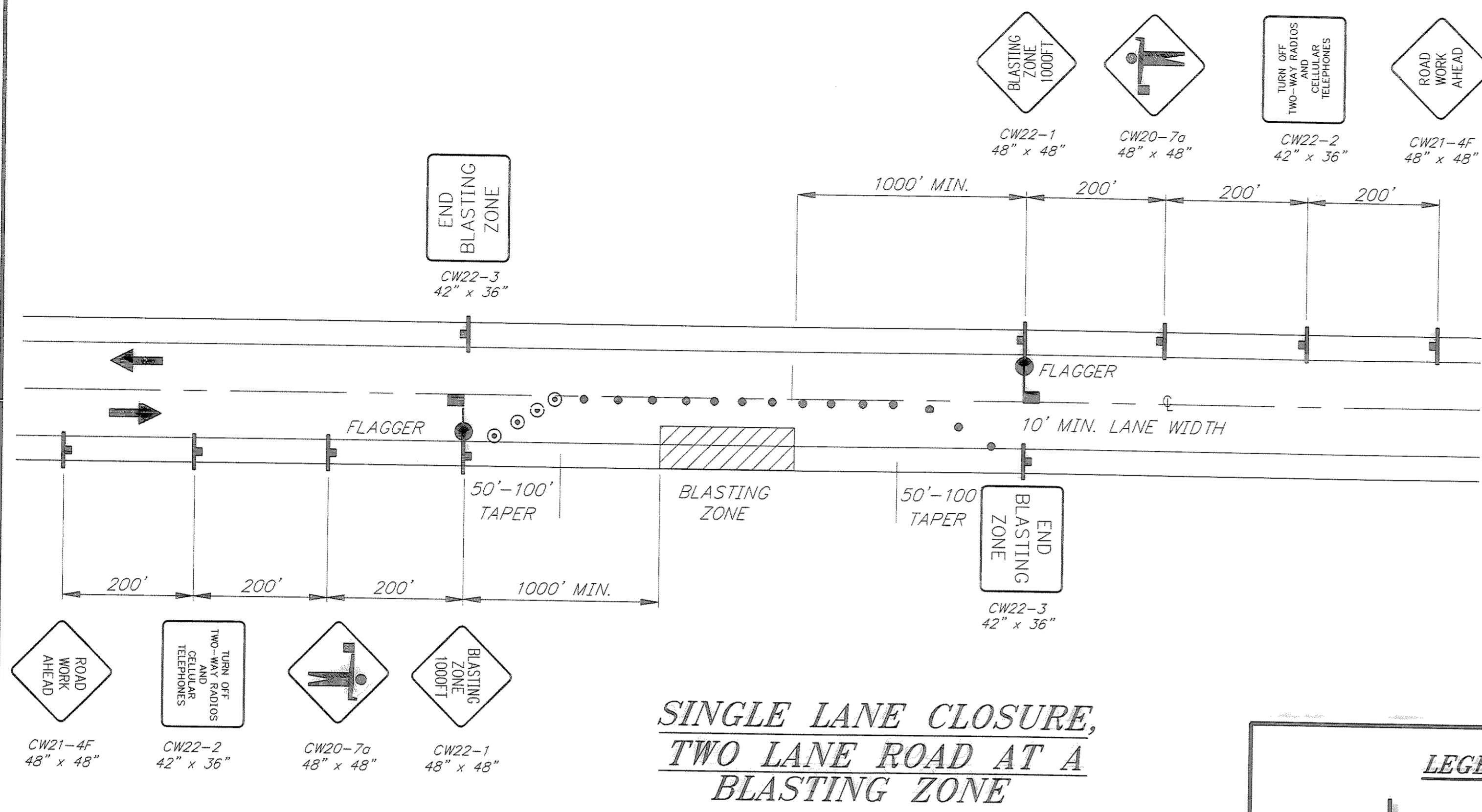
THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134

ALASKA

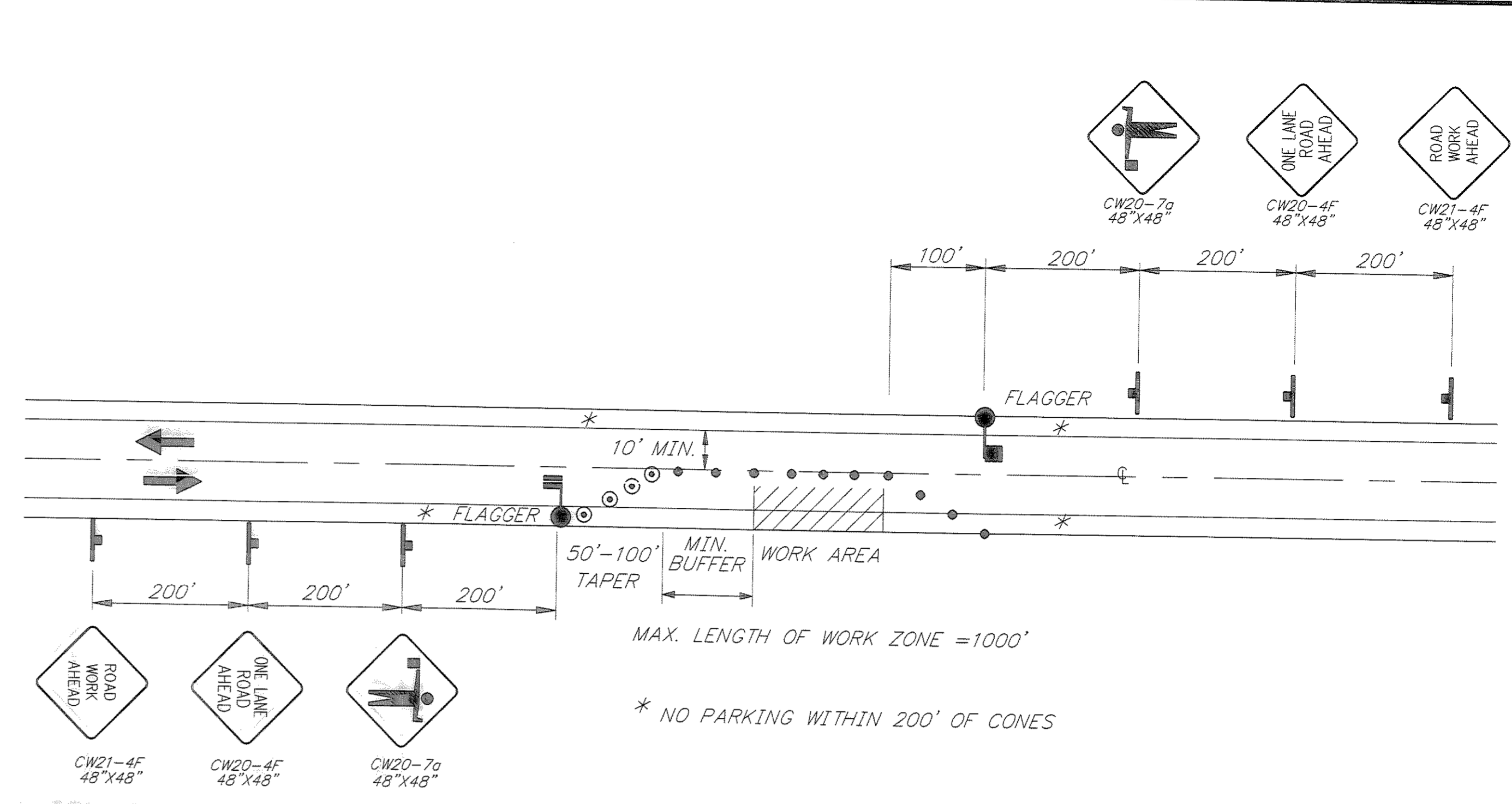
TRAFFIC CONTROL PLAN

DESIGNED BY: K. MATTSON	PROJECT NO. 70134
DRAWN BY: K. MATTSON	DATE: FEB. 1997
CHECKED BY: K. SMITH	SHEET 58 OF 59





**SINGLE LANE CLOSURE,
TWO LANE ROAD AT A
BLASTING ZONE**



**SINGLE LANE CLOSURE
TWO LANE ROAD**

LEGEND

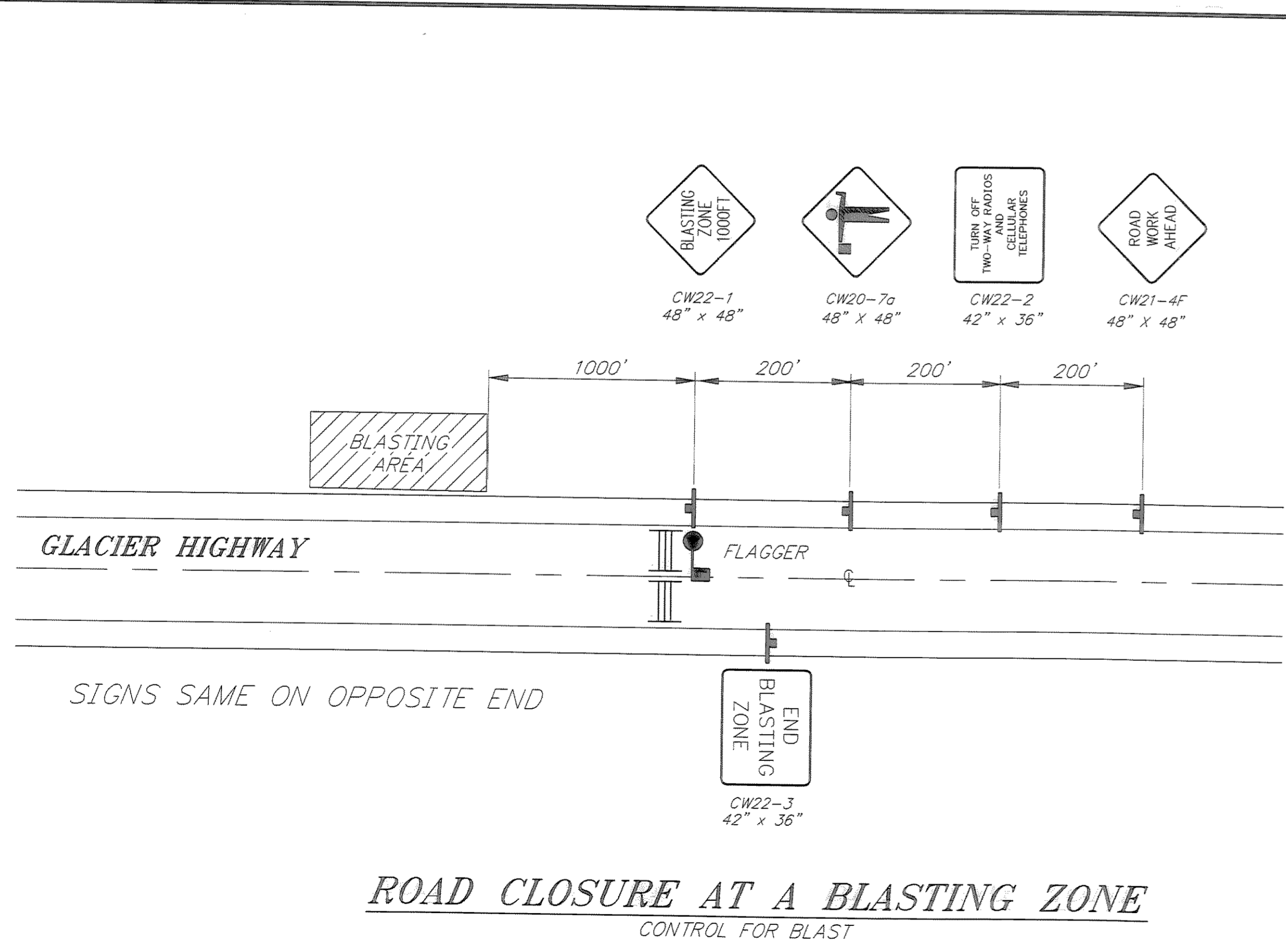
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

WHERE

- L = LENGTH OF TAPER
- W = WIDTH OF OFFSET
- T = TAPER RATE

$L = W \times T$

TCP SETUP TABLE			
SPEED (MPH)	BUFFER LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER RATE (T)
20	35	20	6.7:1
25	55	25	10.4:1
30	85	30	15:1
35	120	35	20.4:1
40	170	40	40:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



**ROAD CLOSURE AT A BLASTING ZONE
CONTROL FOR BLAST**

PATH: P: \JNU\70134\DR\TCP2

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

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

THANE ROAD RECONSTRUCTION
STP-F-M-0963(1) ~ PROJECT NO. 70134

ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DESIGNED BY: K. MATTSON
DRAWN BY: K. MATTSON
CHECKED BY: K. SMITH

PROJECT NO. 70134
DATE: FEB. 1997
SHEET 59 OF 59

