

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN, ALASKA

**KETCHIKAN THIRD AVENUE  
RECONSTRUCTION**

FED. NO. STP-0003(48)  
PROJECT NO. 72089

**SAXMAN ROADS PAVING**

FED. NO. STP-0003(26)  
PROJECT NO. 71494

**INDEX OF SHEETS**

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<b><u>AS - BUILT PLANS</u></b>	
Contractor: SOUTH COAST INC.	
Project Engineer: Allen Shepard	
Begin Date: 6-24-98	
End Date: 7-2-99	
Original Contract Amount: \$ 2,142,154.00	
Final Contract Amount: \$ 2,307,676.10	

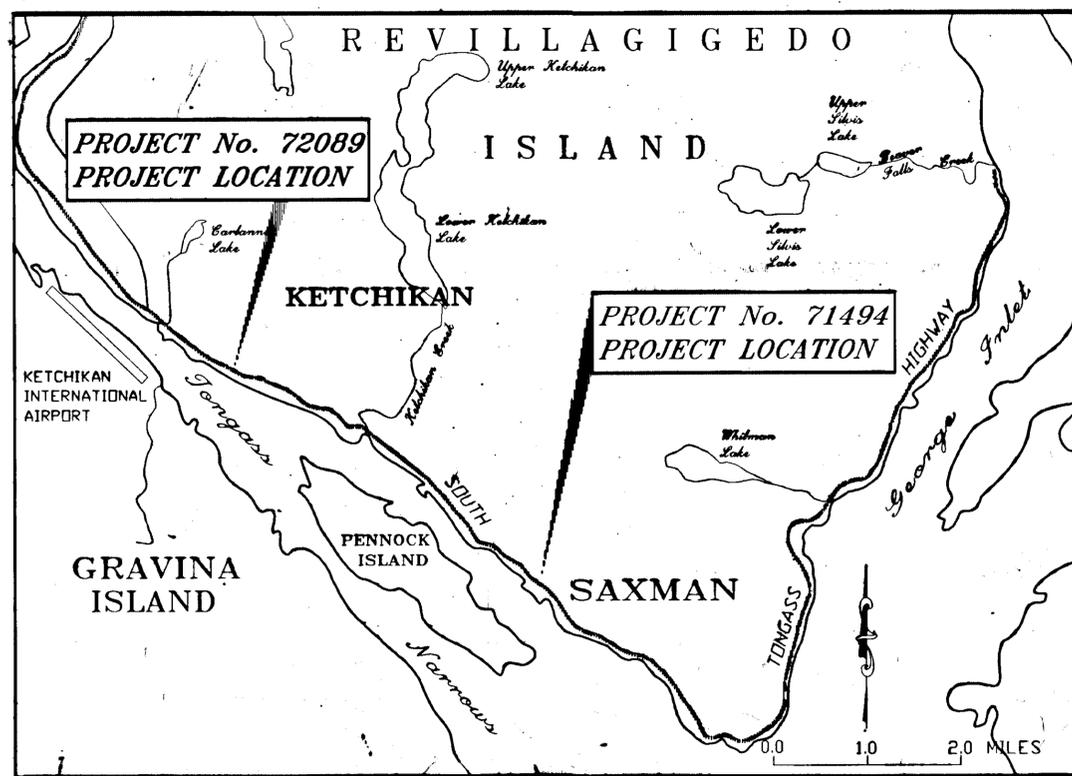
**DESIGN DESIGNATION**

**KETCHIKAN THIRD AVENUE**

ADT 1997	5,400
ADT 2017	8,000
DHV	800
% T	3.1
DESIGN SPEED	25 MPH
DESIGN EAL	400,000

**SAXMAN ROADS PAVING**

ADT 1995	340
ADT 2005	460
DHV	50
% T	2.7
DESIGN SPEED	20 MPH
DESIGN EAL	50,000 (TOTEM ROW STREET)



VICINITY MAP

THE KTN-SAXMAN ROADS PAVING PROJECT WERE DEVELOPED USING THE MODERNIZED METRIC HIGHWAY SPECIFICATIONS. THE KTN-THIRD AVENUE RECONSTRUCTION PROJECT WERE DEVELOPED USING THE STANDARD HIGHWAY SPECIFICATIONS (ENGLISH SYSTEM).

FOR BIDDING PURPOSES, THE QUANTITIES FOR THE KTN-SAXMAN ROADS PAVING PROJECT WERE CONVERTED TO THE ENGLISH UNITS USING THE FOLLOWING CONVERSION FACTORS:

- 1 INCH=25.4 millimeter
- 1 FOOT=0.3049 meter
- 1 STATION=0.0305 kilometer
- 1 SQUARE YARD=0.8368 square meter
- 1 ACRE=0.4047 hectare
- 1 CUBIC FOOT=0.0283 cubic meter
- 1 CUBIC YARD=0.7651 cubic meter
- 1 GALLON=3.785 liter
- 1m-GALLON=3.785 kiloliter
- 1 POUND=0.4535 kilogram
- 1 TON=0.907 megagram

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

APPROVED Date 4/2/98  
Regional Preconstruction Engineer

APPROVED Date 4/10/98  
Director, S.E. Region

PROJECT NUMBER: <b>72089/71494</b>	ENGINEER'S SEAL
DATE: <b>4/9/98</b>	
SHEET <b>1</b> OF <b>84</b>	

P: \KTN\72089\DR1-TSHT2 MPLOTF.PCP(1) OR MPLOTH.PCP(2)

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	PROJECT NO. 72089	PROJECT NO. 71494	TOTAL
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
201(3B)	CLEARING & GRUBBING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
202(2)	REMOVAL OF ASPHALT PAVEMENT	SQUARE YARD	8520	12	8532
202(2B)	REMOVAL OF CONCRETE PAVEMENT	SQUARE YARD	1100		1100
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	1340		1340
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	1593.5	316.5	1910
202(6)	REMOVAL OF MANHOLES	EACH	15		15
202(8)	REMOVAL OF INLETS	EACH	27		27
202(9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	5100		5100
202(10)	SINGLE MAIL BOX INSTALLATION	EACH	21		21
202(12)	REMOVAL OF HANDRAIL	LINEAR FOOT	514.8		514.8
202(13)	REMOVAL OF FENCE	LINEAR FOOT	372		372
202(14)	REMOVAL OF SEWER CLEANOUT	EACH	35		35
202(15)	REMOVAL OF VALVE BOX	EACH	54		54
203(2)	ROCK EXCAVATION	CUBIC YARD	420		420
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	2870	686	3556
203(6)	BORROW, TYPE A	TON	3500	1930	5430
203(11)	WATERFALL RECONSTRUCTION	LUMP SUM	ALL REQUIRED		ALL REQUIRED
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	2050	1511	3561
303(1)	RECONDITIONING	STATION		18	18
304(1)	SUBBASE, GRADING E	TON	850		850
306(1)	ASPHALT TREATED BASE COURSE	TON	2010		2010
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A	TON	1015	717	1732
401(2)	PG 58-28 ASPHALT CEMENT	TON	142	43	185
401(5)	PAVEMENT PATCHING	SQUARE YARD		11	11
402(2)	STE-1 ASPHALT FOR TACK COAT	TON	18		18
403(2)	CSS-1 EMULSIFIED ASPHALT PRIME COAT	TON		1.1	1.1
408(2)	TAPERED PAVEMENT PLANING	SQUARE YARD	300		300
506(5)	TIMBER STRUCTURE RECONSTRUCTION	CONTINGENT SUM	ALL REQUIRED		ALL REQUIRED
509(1)	STEEL BIN WALL	SQUARE FOOT	1229		1229
510(1)	SEGMENTAL CONCRETE RETAINING WALL	SQUARE FOOT	300	318	618
510(2)	TOE ROCK WALL	LINEAR FOOT		738	738
511(1)	ROCKERY WALL	SQUARE FOOT	500		500
512(1)	CONCRETE STAIRWAY	SQUARE FOOT	350		350
512(2)	TIMBER STAIRWAY	SQUARE FOOT	750		750
512(3)	REMOVAL OF STAIRWAY	SQUARE FOOT	1100		1100
513(1)	CARPORIT RECONSTRUCTION	LUMP SUM	ALL REQUIRED		ALL REQUIRED
603(9-15)	15 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	7.7		7.7
603(9-24)	24 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	22.4		22.4
603(9-30)	30 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	26.3		26.3
603(9-36)	36 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	57.5		57.5
603(9-48)	48 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	26.5		26.5
603(22-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	926.1	543	1469.1
603(22-24)	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	1087.0		1087.0
603(22-30)	30 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	218.1		218.1
603(23)	PIPE END TREATMENT	LUMP SUM		ALL REQUIRED	ALL REQUIRED
603(24)	SADDLE TEE FOR ROOF DRAIN STUB-OUT	EACH	10		10
603(25)	6 INCH ROOF DRAIN STUB-OUT	LINEAR FOOT	200		200
604(1A)	STORM SEWER MANHOLE, TYPE I	EACH	7		7
604(1B)	STORM SEWER MANHOLE, TYPE II	EACH	1		1
604(2)	SANITARY SEWER MANHOLE	EACH	9		9
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	2		2
604(4)	ADJUST EXISTING MANHOLE	EACH	4	8	12
604(5A)	INLET TYPE A	EACH	29	1	30
604(5B)	INLET TYPE B	EACH		3	3
605(7)	SPRING DRAIN	LINEAR FOOT		33	33
605(8)	CURTAIN DRAIN	LINEAR FOOT	355		355
606(1)	W-BEAM GUARDRAIL	LINEAR FOOT		75	75
606(5)	REMOVAL AND DISPOSAL OF GUARDRAIL	LINEAR FOOT		213	213
606(8)	SRT-350 TERMINAL END	EACH		4	4
607(3)	CHAIN-LINK FENCE	LINEAR FOOT	108.5	62	170.5
607(6)	WALK GATE	EACH	5		5
607(7)	WOOD FENCE	LINEAR FOOT	263.5		263.5
608(1)	CONCRETE SIDEWALK	SQUARE YARD	1470		1470
608(3)	ASPHALT SIDEWALK	SQUARE YARD		473	473
608(6)	COLORLED CONCRETE SIDEWALK	SQUARE YARD	40		40

ESTIMATE OF QUANTITIES (CONT.)

ITEM NO.	ITEM	UNIT	PROJECT NO. 72089	PROJECT NO. 71494	TOTAL
609(1)	CURB, TYPE I	LINEAR FOOT	200	62	262
609(2)	CURB AND GUTTER, TYPE I	LINEAR FOOT	5200	787	5987
610(4)	DRAINAGE CHANNEL PROTECTION	SQUARE YARD	110		110
614(1)	SURVEY MONUMENTS	EACH	3		3
614(2)	MONUMENT CASES	EACH	3		3
615(1)	STANDARD SIGNS	SQUARE FOOT	124.81	36.58	161.39
615(7)	SALVAGE SIGNS	EACH	12		12
618(5)	SEEDING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
620(1)	TOPSOIL	SQUARE YARD		299	299
625(1)	HANDRAIL	LINEAR FOOT	680		680
626(1-6)	6-INCH SANITARY SEWER SERVICE	LINEAR FOOT	875		875
626(1-8)	8-INCH SANITARY SEWER MAIN	LINEAR FOOT	1406		1406
626(1-10)	10-INCH SANITARY SEWER MAIN	LINEAR FOOT	429		429
626(2)	SANITARY SEWER SERVICE CONNECTION	EACH	30		30
626(3)	SANITARY SEWER CLEANOUT	EACH	30		30
626(4)	8 INCH SEWER CLEANOUT	EACH	5		5
627(1-6)	6-INCH WATER CONDUIT	LINEAR FOOT	320		320
627(1-16)	16-INCH WATER CONDUIT	LINEAR FOOT	2100		2100
627(2)	SEWER CROSSING ENCASUREMENT	EACH	5		5
627(4-16)	INSTALL 16-INCH BUTTERFLY VALVE & VALVE BOX	EACH	7		7
627(5)	FIRE HYDRANT INSTALLATION	EACH	6		6
627(6)	FIRE HYDRANT RELOCATION	EACH		2	2
627(7)	FIRE HYDRANT REMOVAL	EACH	5		5
627(8)	WATER SERVICE CONNECTION & VALVE BOX	EACH	43		43
627(9-4)	INSTALL 4-INCH GATE VALVE & VALVE BOX	EACH	1		1
627(9-6)	INSTALL 6-INCH GATE VALVE & VALVE BOX	EACH	7		7
627(9-8)	INSTALL 8-INCH GATE VALVE & VALVE BOX	EACH	4		4
627(9-10)	INSTALL 10-INCH GATE VALVE & VALVE BOX	EACH	2		2
627(10)	ADJUSTMENT OF VALVE BOX	EACH	5	2	7
635(1)	INSULATION BOARD	SQUARE FOOT	1500	185	1685
639(1)	RESIDENCE DRIVEWAYS	EACH	29	24	53
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1A)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED		ALL REQUIRED
641(2)	TEMPORARY CHECK DAM	EACH	5	4	9
641(3)	TEMPORARY INLET SEDIMENT FILTER	EACH	8		8
641(4)	TEMPORARY INLET SEDIMENT FILTER	EACH	13		13
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(2)	THREE PERSON SURVEY PARTY	hour	20	5	25
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(4)	CONSTRUCTION SIGN	EACH PER DAY	2600	400	3000
643(5)	TYPE II BARRICADE	EACH PER DAY	700		700
643(6)	TYPE III BARRICADE	EACH PER DAY	1150	275	1425
643(7)	TRAFFIC CONE	EACH PER DAY	9500	2700	12200
643(8)	DRUM	EACH PER DAY	700	400	1100
643(13)	TEMPORARY PAVEMENT MARKINGS	STATION	18		18
643(14)	FLAGGING	hour	2400	500	2900
643(17)	WATERING	M-GALLON	30	5.3	35.3
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED		ALL REQUIRED
670(9)	METHYL METHACRYLATE PAVEMENT MARKING	LUMP SUM	ALL REQUIRED		ALL REQUIRED

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:

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

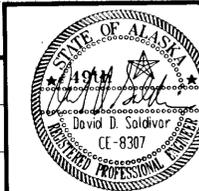
KETCHIKAN

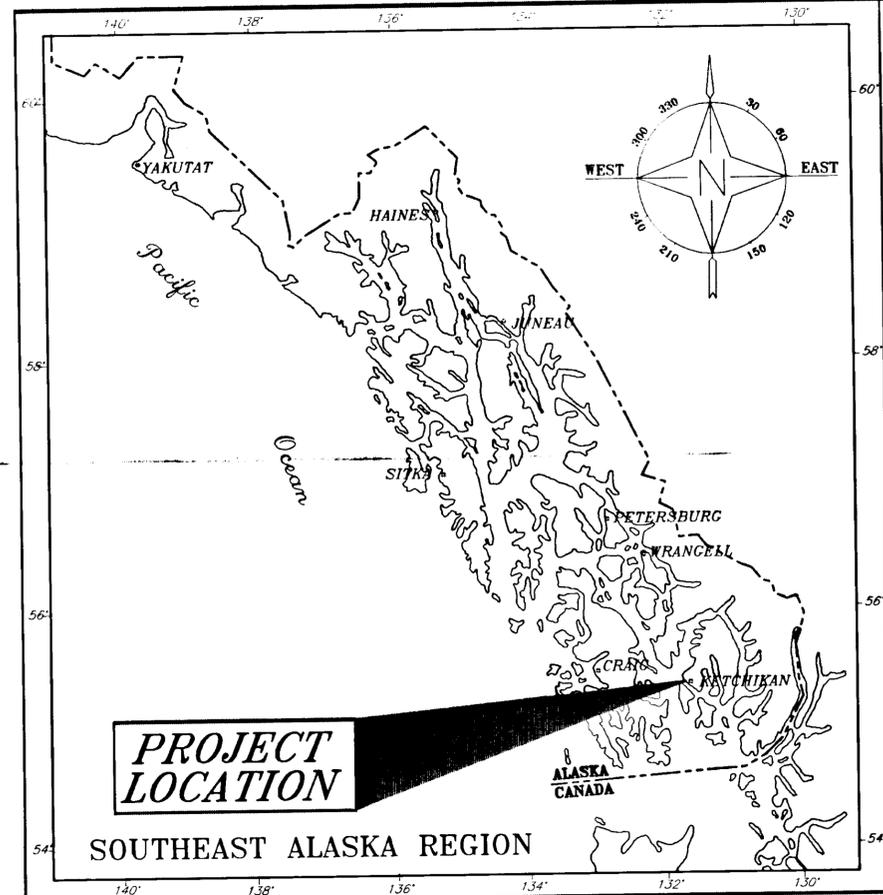
KTN-THIRD AVENUE RECONSTRUCTION/  
KTN-SAXMAN ROADS PAVING  
PROJECT NO. 72089 & 71494

ALASKA

DESIGNED BY: D. SALDIVAR	PROJECT NO. 72089/71494
DRAWN BY: K. SNYDER	DATE: 4/9/98
CHECKED BY: D. SALDIVAR	SHEET 2 OF 84

COMBINED ESTIMATE OF QUANTITIES





STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN, ALASKA

**KETCHIKAN THIRD AVENUE  
RECONSTRUCTION**

STP-0003 (48)  
PROJECT NO. 72089

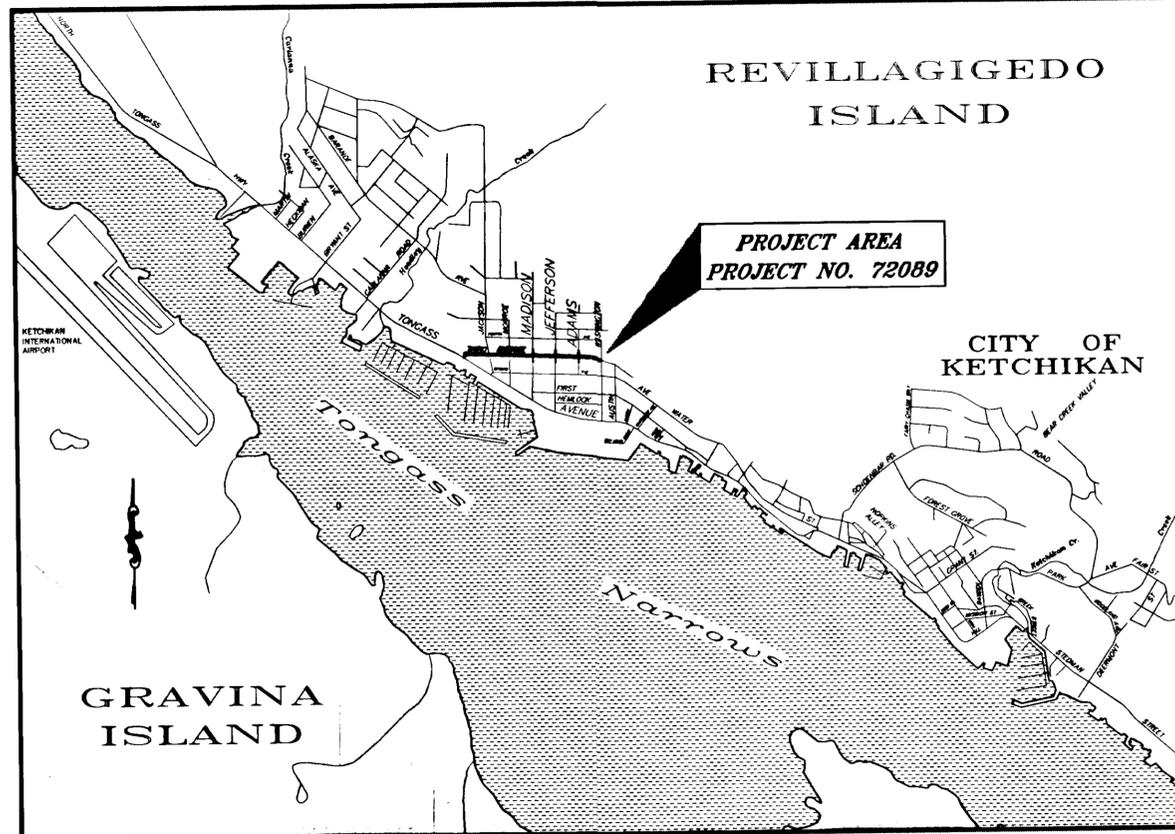
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42	SEGMENTAL CONCRETE & ROCKERY RETAINING WALLS
43	BIN WALL LAYOUT & DETAILS
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**DESIGN DESIGNATION**

	1997	2017
ADT	5,400	8,000
DHV	550	800
%T	3.1	3.1
DESIGN SPEED	25 MPH	25 MPH
DESIGN EAL		400,000

**PROJECT SUMMARY**

LENGTH OF PROJECT	1,964.07 FT. (0.37 MI)
LENGTH OF PAVING	1,941.35 FT. (0.37 MI)
WIDTH OF PAVING	VARIES (25' TO 37')

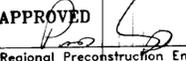


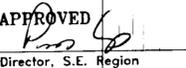
VICINITY MAP

**THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:**

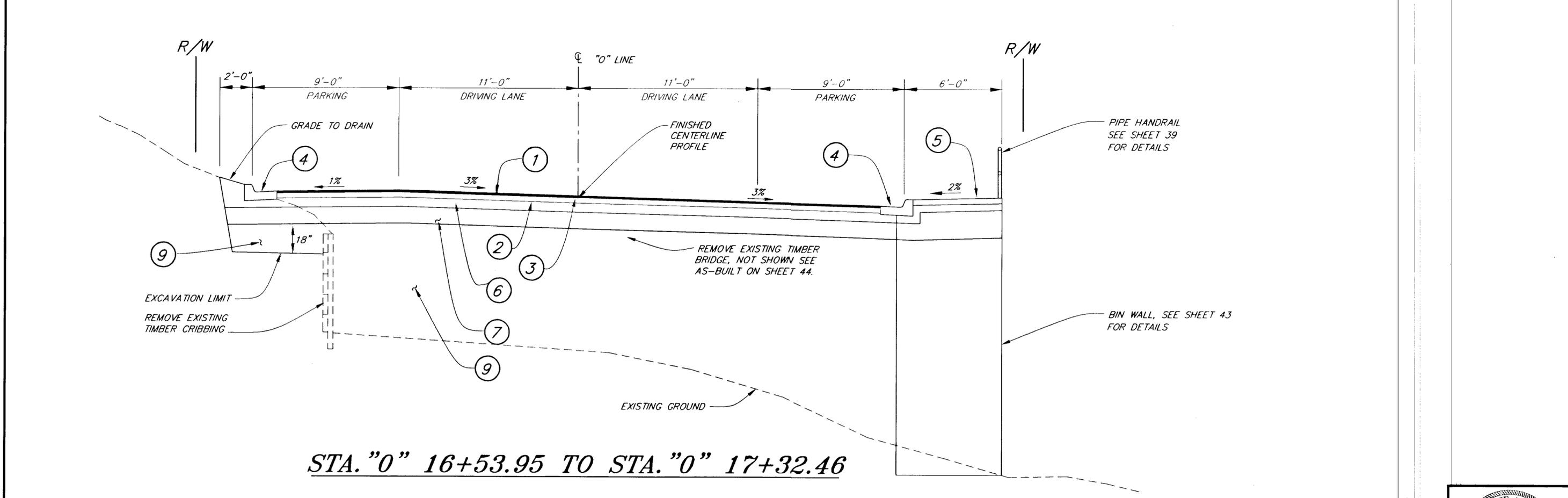
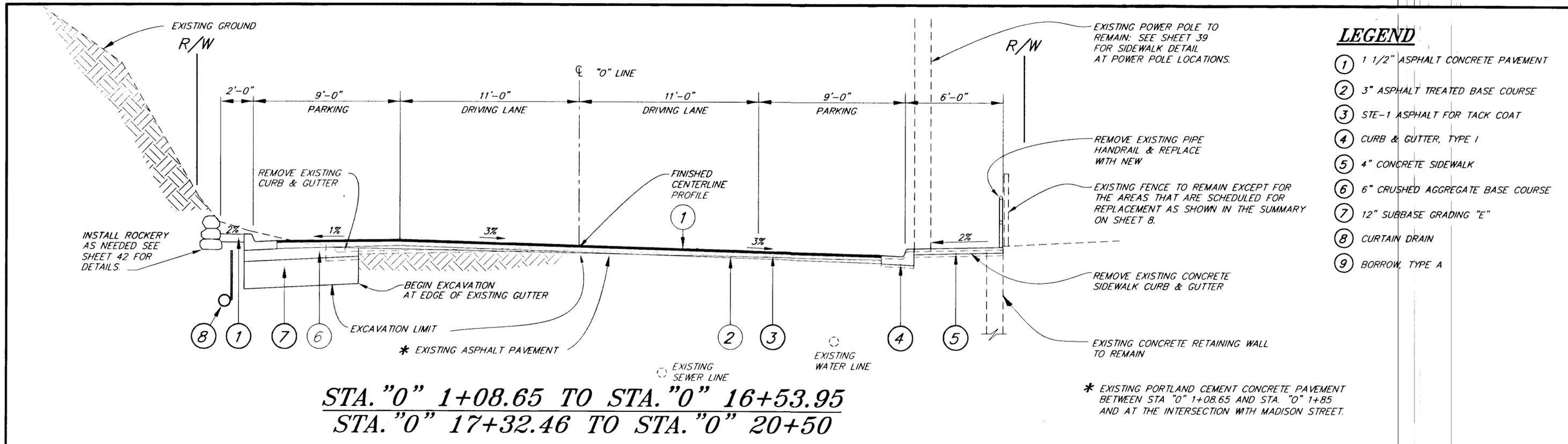
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

APPROVED  Date 4/1/98  
Regional Preconstruction Engineer

APPROVED  Date 4/10/98  
Director, S.E. Region

PROJECT NUMBER:	72089	ENGINEER'S SEAL 
DATE:	4/1/98	
SHEET	3 OF 84	



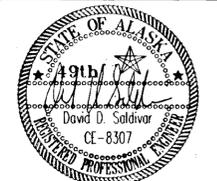
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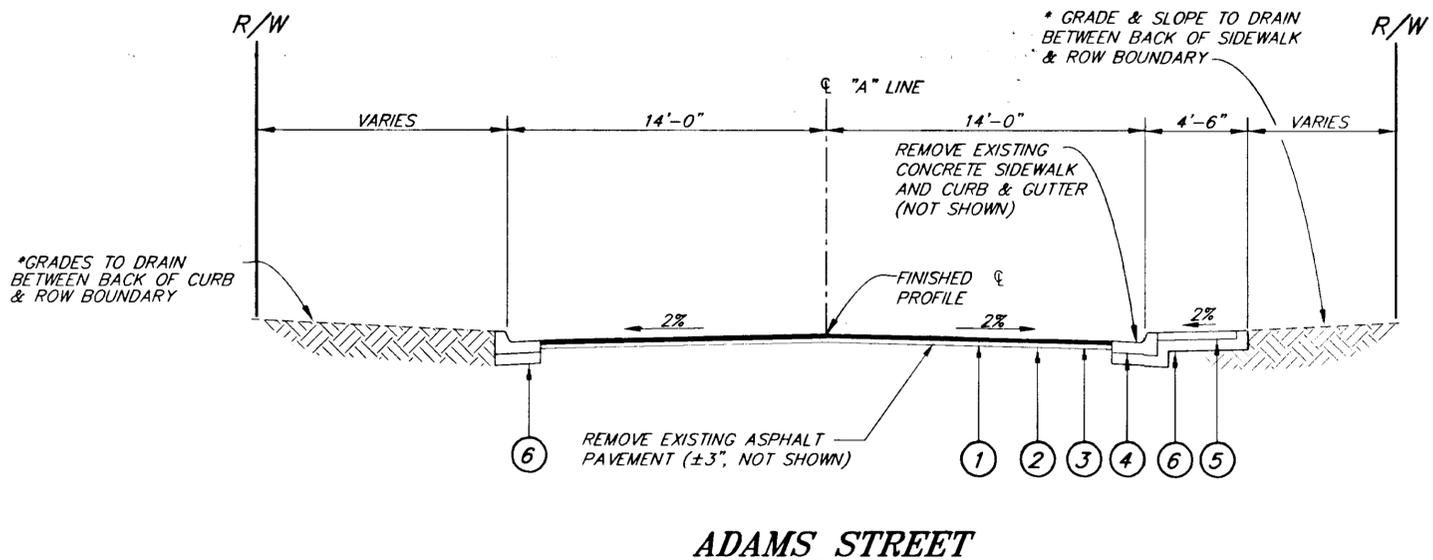
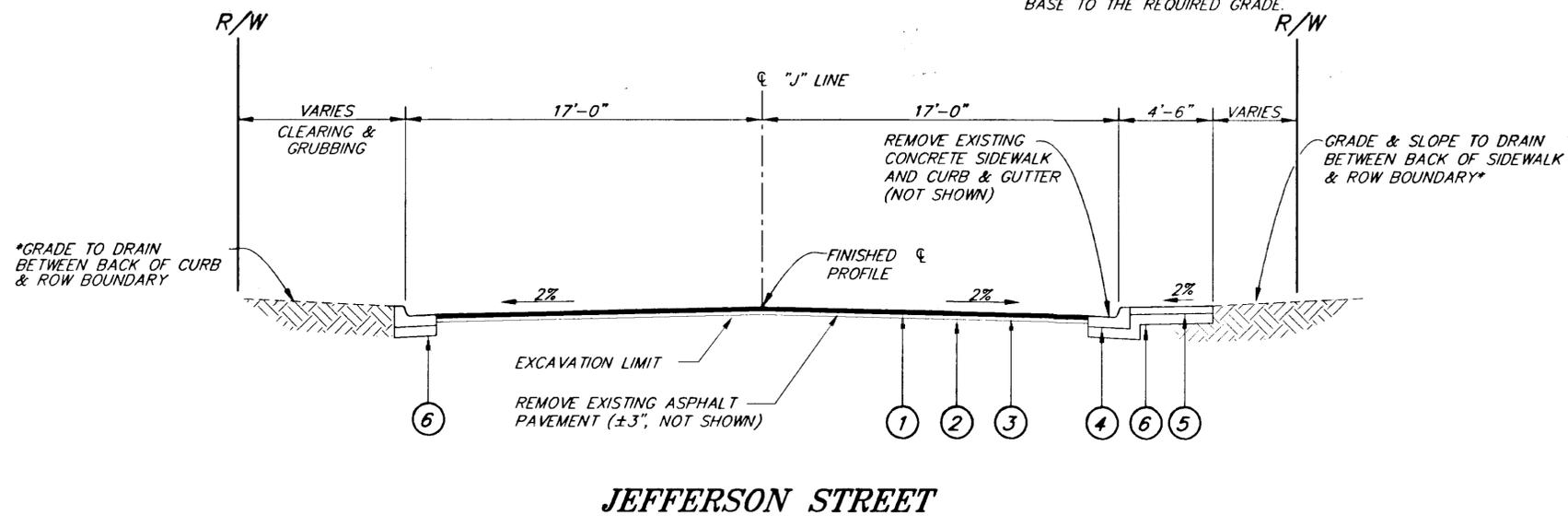
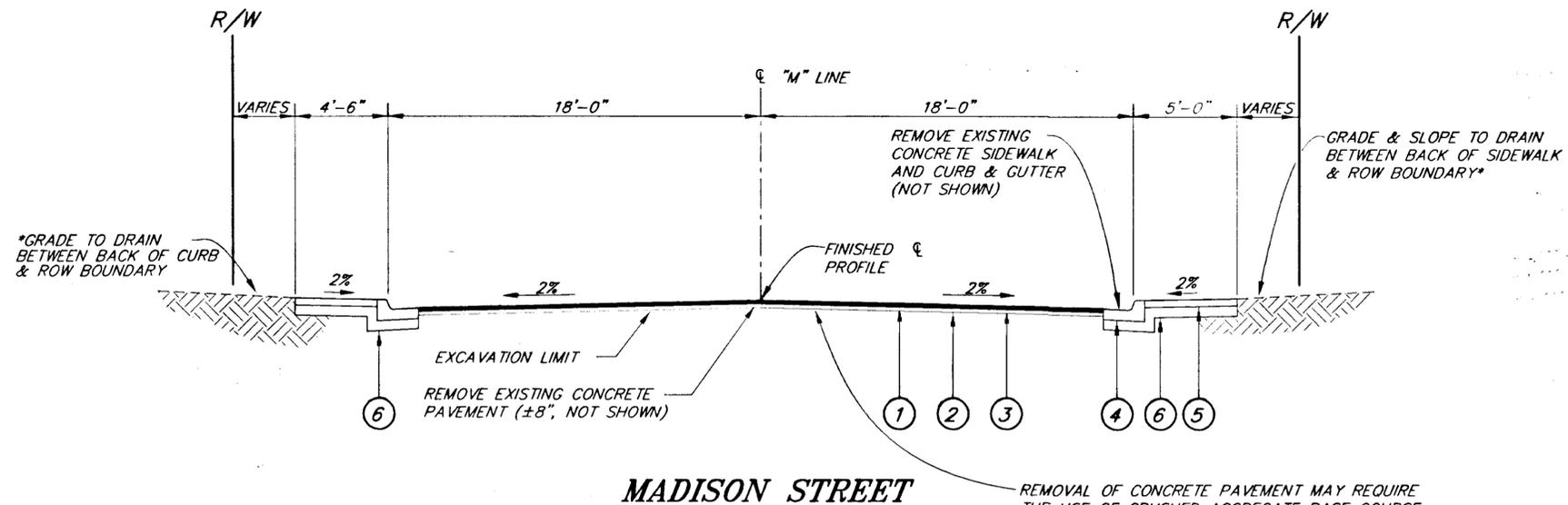
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION ALASKA  
 STP-0003(4B) ~ 72089

**TYPICAL SECTIONS**

DESIGNED BY: <b>M. SHEELER</b>	PROJECT NO. 72089
DRAWN BY: <b>M. SHEELER/K. SNYDER</b>	DATE: 4/9/96
CHECKED BY: <b>D. SALDIVAR</b>	SHEET 4 OF 84





**LEGEND**

- ① 1 1/2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
- ② 3" ASPHALT TREATED BASE COURSE
- ③ STE-1 ASPHALT FOR TACK COAT
- ④ CURB & GUTTER, TYPE I
- ⑤ 4" CONCRETE SIDEWALK
- ⑥ 6" CRUSHED AGGREGATE BASE COURSE

\* DISTURBED AREAS SHALL HAVE 2" TOPSOIL AND SEEDED.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \KTN\72089\DR\ -TYP2		
PLOT: P: \-LIB\ -PLOT\ PLOT.PCP(4) OR PLOT.PCP(8)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

KETCHIKAN

KTN—THIRD AVENUE RECONSTRUCTION  
 STP-0003(48) ~ 72089

ALASKA

DESIGNED BY:  
 M. SHEELER

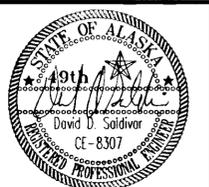
DRAWN BY:  
 K. SNYDER

CHECKED BY:  
 D. SALDIVAR

PROJECT NO.  
 72089

DATE:  
 4/9/88

SHEET 5 OF 84



**TYPICAL SECTIONS**

ESTIMATE OF QUANTITIES

#67443 #67441

ITEM NO.	ITEM	UNIT PRICE	UNIT	PROJECT NO. 72089	CITY (SEWER)	KPU (WATER)	TOTAL
120(1)	DBE ADJUSTMENT	\$14,030.40	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
202(16)	Retaining Wall Modification C.O.#12	\$971.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
201(3B)	CLEARING & GRUBBING	\$16,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	\$20,000.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED		ALL REQUIRED
202(2)	REMOVAL OF ASPHALT PAVEMENT	\$5.00	SQUARE YARD	8500			8500 81.0.31
202(2B)	REMOVAL OF CONCRETE PAVEMENT	\$5.00	SQUARE YARD	400			400 1955.73
202(3)	REMOVAL OF SIDEWALK	\$5.00	SQUARE YARD	1340			1340 1241.0
202(4)	REMOVAL OF CULVERT PIPE	\$5.00	LINEAR FOOT	1593.5			1593.5 1840
202(6)	REMOVAL OF MANHOLES	\$100.00	EACH	7	7		7 14
202(8)	REMOVAL OF INLETS	\$300.00	EACH	22	22		22 2
202(9)	REMOVAL OF CURB AND GUTTER	\$3.00	LINEAR FOOT	5100			5100 4677.2
202(10)	SINGLE MAIL BOX INSTALLATION	\$200.00	EACH	24			24 18
202(12)	REMOVAL OF HANDRAIL	\$2.00	LINEAR FOOT	5140			5140 623.5
202(13)	REMOVAL OF FENCE	\$5.00	LINEAR FOOT	372			372 611.0
202(14)	REMOVAL OF SEWER CLEANOUT	\$100.00	EACH		35		35
202(15)	REMOVAL OF VALVE BOX	\$100.00	EACH			54	54
203(2)	ROCK EXCAVATION	\$30.00	CUBIC YARD	250.47	214.70	472.17	420 1367.96
203(3)	UNCLASSIFIED EXCAVATION	\$7.00	CUBIC YARD	2870			2870 1670.73
203(6)	BORROW, TYPE A	\$4.00	TON	3500			3500 4091.91
203(11)	WATERFALL RECONSTRUCTION	\$5,000.00	LUMP SUM	ALL REQ'D			ALL REQ'D
301(1)	CRUSHED AGGREGATE BASE COURSE	\$20.00	TON	2050			2050 3484.75
304(1)	SUBBASE, GRADING E	\$20.00	TON	850			850 1061.59
306(1)	ASPHALT TREATED BASE COURSE	\$10.00	TON	2010			2010 1537.99
402(13)	Rock Excavation Impacts C.O.#5	\$12,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A	\$2.00	TON	1015			1015 1215.66
404(2)	PG 58-28 ASPHALT CEMENT DELETED C.O.#1		TON	442			442
402(2)	STE-1 ASPHALT FOR TACK COAT	\$200.00	TON	10			10 2.92
203(14)	Trench Rock Probing C.O.#9	\$2,057.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
203(16)	Slope Stabilization C.O.#12	\$247.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
408(2)	TAPERED PAVEMENT PLANING	\$15.00	SQUARE YARD	300			300
203(17)	Stairway Modification C.O.#12	\$300.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
506(5)	TIMBER STRUCTURE RECONSTRUCTION	\$20,000.00	CONTINGENT SUM	ALL REQUIRED			ALL REQUIRED
509(1)	STEEL BIN WALL	\$50.00	SQUARE FOOT	1220			1220 1205.50
510(1)	SEGMENTAL CONCRETE RETAINING WALL	\$30.00	SQUARE FOOT	300			300 284
511(1)	ROCKERY WALL	\$10.00	SQUARE FOOT	500			500 351.5
512(1)	CONCRETE STAIRWAY	\$25.00	SQUARE FOOT	350			350 176.75
512(2)	TIMBER STAIRWAY	\$50.00	SQUARE FOOT	750			750 490.4
512(3)	REMOVAL OF STAIRWAY	\$2.00	SQUARE FOOT	1100			1100 550.7
513(1)	CARPENT RECONSTRUCTION	\$16,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
401(6)	PBA-2 Asphalt Cement C.O.#4	\$400.00	TON	125.95			125.95
603(9-15)	15 INCH CORRUGATED ALUMINUM PIPE	\$100.00	LINEAR FOOT	77			77 9.5
603(9-24)	24 INCH CORRUGATED ALUMINUM PIPE	\$100.00	LINEAR FOOT	224			224 0
603(9-30)	30 INCH CORRUGATED ALUMINUM PIPE	\$100.00	LINEAR FOOT	263			263 22.0
603(9-36)	36 INCH CORRUGATED ALUMINUM PIPE	\$100.00	LINEAR FOOT	575			575 70.0
603(9-48)	48 INCH CORRUGATED ALUMINUM PIPE	\$100.00	LINEAR FOOT	265			265 108
603(22-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	\$20.00	LINEAR FOOT	926			926 1030.5
603(22-24)	24 INCH CORRUGATED POLYETHYLENE PIPE	\$25.00	LINEAR FOOT	1007			1007 1070
603(22-30)	30 INCH CORRUGATED POLYETHYLENE PIPE	\$30.00	LINEAR FOOT	218			218 210
603(24)	SADDLE TEE FOR ROOF DRAIN STUB-OUT	\$500.00	EACH	10			10 5
603(25)	6 INCH ROOF DRAIN STUB-OUT	\$20.00	LINEAR FOOT	200			200 523.7
511(1)	Concrete Retaining Wall C.O.#7	\$14,422.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
604(1A)	STORM SEWER MANHOLE, TYPE I	\$2,000.00	EACH	7			7 2
604(1B)	STORM SEWER MANHOLE, TYPE II	\$2,000.00	EACH	1			1 2
604(2)	SANITARY SEWER MANHOLE	\$5,000.00	EACH	9	9		9
604(3)	RECONSTRUCT EXISTING MANHOLE	\$1,000.00	EACH	2			2 5
604(4)	ADJUST EXISTING MANHOLE	\$500.00	EACH	4			4 1
604(5A)	INLET TYPE A	\$1,000.00	EACH	29			29
605(8)	CURTAIN DRAIN	\$10.00	LINEAR FOOT	355			355 535.5
607(3)	CHAIN LINK FENCE	\$30.00	LINEAR FOOT	1005			1005 135.1
607(6)	WALK GATE	\$1,000.00	EACH	5			5 10
607(7)	WOOD FENCE	\$50.00	LINEAR FOOT	2635			2635 455.8
608(1)	CONCRETE SIDEWALK	\$50.00	SQUARE YARD	1170			1170 1751.26
608(6)	COLOR CONCRETE SIDEWALK	\$80.00	SQUARE YARD	40			40 21.4
609(1)	CURB, TYPE I	\$20.00	LINEAR FOOT	200			200 81.4
609(2)	CURB AND GUTTER, TYPE I	\$20.00	LINEAR FOOT	5200			5200 5025
610(4)	DRAINAGE CHANNEL PROTECTION	\$20.00	SQUARE YARD	110			110 40
614(1)	SURVEY MONUMENTS	\$100.00	EACH	3			3
614(2)	MONUMENT CASES	\$100.00	EACH	3			3
615(1)	STANDARD SIGNS	\$60.00	SQUARE FOOT	124.81			124.81
615(7)	SALVAGE SIGNS	\$100.00	EACH	12			12

ESTIMATE OF QUANTITIES (CONT.)

#67443 #67441

ITEM NO.	ITEM	UNIT PRICE	UNIT	PROJECT NO. 72089	CITY (SEWER)	KPU (WATER)	TOTAL
618(5)	SEEDING	\$4,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
605(21)	Misc. Drain Modifications C.O.#12	\$10,870.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
625(1)	HANDRAIL	\$100.00	LINEAR FOOT	600			600 615
626(1-6)	6-INCH SANITARY SEWER SERVICE	\$20.00	LINEAR FOOT	975			975 774.4
626(1-8)	8-INCH SANITARY SEWER MAIN	\$50.00	LINEAR FOOT	1400			1400 1432.3
626(1-10)	10-INCH SANITARY SEWER MAIN	\$60.00	LINEAR FOOT	120			120 447.1
626(2)	SANITARY SEWER SERVICE CONNECTION	\$2,000.00	EACH	30			30 32
626(3)	6 INCH SEWER CLEANOUT	\$1,000.00	EACH	30			30 8
626(4)	8 INCH SEWER CLEANOUT	\$1,000.00	EACH	5			5 8
607(1)	Curb & Gutter Modifications C.O.#12	\$510.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
627(1-6)	6-INCH WATER CONDUIT	\$20.00	LINEAR FOOT	300			300 319.2
627(1-16)	16-INCH WATER CONDUIT	\$60.00	LINEAR FOOT	2400			2400 2146.3
627(2)	SEWER CROSSING ENCASEMENT	\$100.00	EACH	2			2
627(4-16)	INSTALL 16-INCH BUTTERFLY VALVE & VALVE BOX	\$500.00	EACH	7			7 9
627(5)	FIRE HYDRANT INSTALLATION	\$1,500.00	EACH	6			6 6
627(7)	FIRE HYDRANT REMOVAL	\$1,000.00	EACH	5			5 4
627(8)	WATER SERVICE CONNECTION & VALVE BOX	\$500.00	EACH	43			43 48
627(9-4)	INSTALL 4-INCH GATE VALVE & VALVE BOX	\$300.00	EACH	1			1 1
627(9-6)	INSTALL 6-INCH GATE VALVE & VALVE BOX	\$500.00	EACH	7			7 7
627(9-8)	INSTALL 8-INCH GATE VALVE & VALVE	\$500.00	EACH	4			4 4
615(8)	Relocate Standard Sign C.O.#12	\$250.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
627(9-10)	INSTALL 10-INCH GATE VALVE AND VALVE BOX	\$500.00	EACH	2			2
627(10)	ADJUSTMENT OF VALVE BOX	\$500.00	EACH	5			5
635(1)	INSULATION BOARD	\$2.00	SQUARE FOOT	700			700 1216
639(1)	RESIDENCE DRIVEWAY	\$500.00	EACH	20			20 26
626(10)	Added Sanitary Sewer Work C.O.#1	\$24,075.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
640(1)	MOBILIZATION AND DEMOBILIZATION	\$74,500.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL	\$8,330.55	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1A)	EROSION & POLLUTION CONTROL ADMINISTRATION	\$100.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(2)	TEMPORARY CHECK DAM	\$100.00	EACH	5			5 3
641(3)	TEMPORARY INLET BLOCKING	\$300.00	EACH	5			5 20
641(4)	TEMPORARY INLET SEDIMENT FILTER	\$200.00	EACH	11			11 22
626(11)	Sanitary Sewer Contracts C.O.#12	\$1,874.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
627(11)	Added Water Line Work C.O.#2	\$11,934.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	\$35,076.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(2)	THREE PERSON SURVEY PARTY	\$250.00	HOUR	20			20 8.83
643(2)	TRAFFIC MAINTENANCE	\$43,045.00	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNING	\$21,922.50	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(4)	CONSTRUCTION SIGN	\$1.00	EACH PER DAY	300			300 1291
643(5)	TYPE II BARRICADE	\$2.00	EACH PER DAY	100			100 1287
643(6)	TYPE III BARRICADE	\$1.00	EACH PER DAY	200			200 501
643(7)	TRAFFIC CONE	\$0.50	EACH PER DAY	1000			1000 7178
643(8)	DRUMS	\$1.00	EACH PER DAY	500			500 29
643(13)	TEMPORARY PAVEMENT MARKING	\$100.00	STATION	10			10 18
643(14)	FLAGGING	\$1.00	HOUR	2000			2000 128
643(17)	WATERING	\$100.00	M-GALLON	30			30 5
639(2)	Concrete Driveway C.O.#11	\$6,818.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	\$25,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
670(9)	METHYL METHACRYLATE PAVEMENT MARKINGS	\$20,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED
643(24)	Pedestrian fence C.O.#8	\$11,000.00	LUMP SUM	ALL REQUIRED			ALL REQUIRED

BASIS OF ESTIMATE

ITEM NO.	ITEM	QUANTITY
301(1)	CRUSHED AGGREGATE BASE COURSE	1.96 TONS/CY
401(1)	ASPHALT CONCRETE PAVEMENT	116 lbs/SY/INCH DEPTH OF ASPHALT CONCRETE
401(2)	PG 58-28 ASPHALT CEMENT	6% OF 401(1) & 4% OF 306(1)
402(2)	STE-1 ASPHALT FOR TACK COAT	0.10 GAL/SY, 233 GAL/TON

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

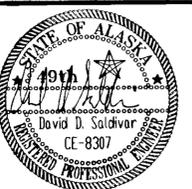
KETCHIKAN

KETCHIKAN THIRD AVENUE  
 RECONSTRUCTION  
 FED. NO. STP-0003 (48) ~ PROJECT NO. 72089  
 ESTIMATE OF QUANTITIES

ALASKA

DESIGNED BY:  
 D. SALDIVAR  
 DRAWN BY:  
 K. SNYDER  
 CHECKED BY:  
 D. SALDIVAR

PROJECT NO.  
 72089  
 DATE:  
 4/9/98  
 SHEET 6 OF 84



**CURB CUT SUMMARY**

STATION	OFFSET MIDDLE FRONT EDGE		TYPE	WIDTH	REMARKS
	LT	RT			
"0"0+66.07		37.12'	CURB & SIDEWALK		RAMP ON OPPOSITE SIDE OF TONGASS AVENUE
"0"1+13.71		34.58'	CURB & SIDEWALK		RAMP COMBINE
"0"1+14.59	28.23'		CURB & SIDEWALK		RAMP
"0"1+39.51		22.73'	CURB & SIDEWALK	15.16'	SERVICE DRIVEWAY COMBINE
"0"1+48.01	18.50'		CURB ONLY	20'	SERVICE DRIVEWAY
"0"2+07.37	18.50'		CURB ONLY	10'	DRIVEWAY
"0"2+50.33	18.50'		CURB ONLY	8'	DRIVEWAY
"0"3+57		18.50'	CURB ONLY	14'	DRIVEWAY
"0"3+73.65		18.50'	CURB & SIDEWALK	10'	DRIVEWAY
"0"3+91.61		18.50'	CURB & SIDEWALK	10'	DRIVEWAY
"0"4+57.75	12.00'		CURB ONLY		RAMP
"0"4+72.92		12.50'	CURB & SIDEWALK		RAMP
"0"5+78.19		18.50'	CURB & SIDEWALK	10'	DRIVEWAY
"0"6+26.57		18.50'	CURB & SIDEWALK	10'	DRIVEWAY
"0"6+73.11	18.50'		CURB ONLY	12'	DRIVEWAY
"0"7+22.84		18.50'	CURB & SIDEWALK	20'	DRIVEWAY
"0"7+76.66	18.50'		CURB ONLY	10'	DRIVEWAY COMBINE
"0"7+97.66	18.50'		CURB ONLY	20'	DRIVEWAY COMBINE
"0"8+30.27		12.50'	CURB ONLY		RAMP
"0"8+30.27	12.50'		CURB & SIDEWALK		RAMP
"0"9+48.56		18.50'	CURB & SIDEWALK	20'	DRIVEWAY
"0"10+18.52		18.50'	CURB & SIDEWALK	16'	DRIVEWAY COMBINE
"0"10+50.21		18.50'	CURB & SIDEWALK	20'	DRIVEWAY COMBINE
"0"11+37.19	17.24'		CURB & SIDEWALK		RAMP
"0"11+37.30		17.33'	CURB & SIDEWALK		RAMP
"0"11+75.14		35.31'	CURB & SIDEWALK	10'	DRIVEWAY COMBINE
"0"11+79.95	17.33'		CURB & SIDEWALK		RAMP COMBINE
"0"11+79.96		17.34'	CURB & SIDEWALK		RAMP
"0"11+80.60		15.5'	CURB & SIDEWALK		RAMP
"0"14+92.57		18.50'	CURB & SIDEWALK		RAMP
"0"14+96.34		38.44'	CURB ONLY	10'	DRIVEWAY COMBINE
"0"15+32.13		17.36'	CURB & SIDEWALK		RAMP
"0"15+33.29	16.21'		CURB & SIDEWALK		RAMP
"0"15+76.15		18.50'	CURB & SIDEWALK	16'	DRIVEWAY
"0"15+90.37	18.50'		CURB ONLY	20'	DRIVEWAY
"0"16+43.44	18.50'		CURB ONLY	16'	DRIVEWAY COMBINE
"0"17+25.84	18.50'		CURB ONLY	14'	DRIVEWAY COMBINE
"0"17+46.20	18.50'		CURB ONLY	18'	DRIVEWAY
"0"17+50.33		18.50'	CURB & SIDEWALK	12'	DRIVEWAY COMBINE
"0"17+73.23		18.50'	CURB & SIDEWALK	12'	DRIVEWAY COMBINE
"0"18+41.35		17.95'	CURB & SIDEWALK		RAMP
"0"18+76.56	16.21'		CURB & SIDEWALK		RAMP
"0"18+79.52		14.34'	CURB & SIDEWALK		RAMP
"0"19+56.65		18.50'	CURB & SIDEWALK	12'	DRIVEWAY
"0"20+42.57		18.50'	CURB & SIDEWALK	12'	DRIVEWAY

**ROADWAY MONUMENT INSTALLATION**

STATION	OFFSET	NORTHING	EASTING	REMARKS
"0" 11+58.56	1.89' RT.	91,301.579	100,007.411	R/W @ 3rd & MADISON REPLACE EXISTING MONUMENT
"0" 15+08.53	1.86' RT.	91,310.774	100,357.260	R/W @ 3rd & JEFFERSON
"0" 18+58.55	1.85' RT.	91,319.968	100,707.151	R/W @ 3rd & ADAMS

**MAILBOX INSTALLATION SUMMARY**

STATION	OFFSET		REMARKS	STREET ADDRESS
	LT	RT		
"0"2+20.82-1+50	23.88		REPLACE	2840 3RD AVE.
"0"3+79.68		27.85	REPLACE	2817 3RD AVE.
"0"3+82.49		27.76	REPLACE	2819 3RD AVE.
"0"3+97.95		27.14	REPLACE	2809 3RD AVE.
"0"5+23.19		17.54	MOVE & REPLACE	402 JACKSON ST.
<del>"0"5+41.90</del>	<del>18.97</del>		<del>MOVE &amp; REPLACE</del>	
"0"5+48.05	18.06		MOVE & REPLACE (2 boxes, 1 post)	2740 & 2738 3RD AVE.
"0" 1+35	X			2800 & 2802 3RD AVE.
"0"6+63.88	16.41		MOVE & REPLACE (3 boxes) UPPER & LOWER	2724 & 2736 3RD AVE.
"0"8+33.40		33.90	REPLACE	MONROE STREET STAIRS
<del>"0"8+83.03</del>		<del>26.95</del>	<del>REPLACE</del>	
"0"9+39+10	18.58		MOVE & REPLACE	2630 3RD AVE.
<del>"0"10+03.96</del>	<del>23.06</del>		<del>REPLACE</del>	
"0"13+72.50		27.67	REPLACE	2544 3RD AVE.
"0"14+09.65	21.61		MOVE & REPLACE	2512 3RD AVE.
"0"16+27.68		26.67	REPLACE	2416 3RD AVE.
"0"16+89.45	19.50		MOVE & REPLACE	2420 3RD AVE.
"0"17+34.95	16.50		MOVE & REPLACE	2412 3RD AVE.
"0"17+82.05		26.84	MOVE & REPLACE	2401 3RD AVE.
"0"20+27.65		25.95	REPLACE	2327 3RD AVE.
"0"20+55.02		28.43	REPLACE	2321 3RD AVE.
<del>"0"21+06.99</del>	<del>64.85</del>		<del>REPLACE</del>	

**STEEL BIN WALL SUMMARY**

STATION	OFFSET	TOP WALL ELEVATION	HEIGHT "H"	REMARKS
"0"16+54	26' RT		9'	BEGIN BIN WALL, SEE SHEET 43.
"0"16+63.5	26' RT		15'	
"0"16+73.5	26' RT		17'	
"0"16+83.5	26' RT		19'	
"0"17+03.5	26' RT		19'	
"0"17+13.5	26' RT		17'	
"0"17+23.5	26' RT		15'	
"0"17+33	26' RT		13'	END BIN WALL, SEE SHEET 43.

**SEGMENTAL CONCRETE RETAINING WALL SUMMARY**

FROM		TO		APPROX. TOP WALL ELEVATION	AVERAGE HEIGHT "H"	REMARKS
STATION	LEFT OFFSET	STATION "0"	LEFT OFFSET			
"0"11+82.7	26.4'	12+25.1	22.5'	126.0	4'-5'	SEE SHEET 42 FOR DETAILS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \K7M\72089\DR\SUM2		
PLOT: P: \-LIB\-PLOT\PLOT.PCP(1) OR PLOT.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

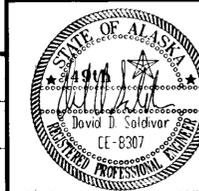
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION  
ALASKA STP-003(48) ~ 72089

**ROADWAY SUMMARY OF QUANTITIES**

DESIGNED BY: M. SHEELER  
DRAWN BY: K. SNYDER  
CHECKED BY: D. SALDIVAR

PROJECT NO. 72089  
DATE: 4/9/98  
SHEET 7 OF 84



FENCE REPLACEMENT SUMMARY							
STATION	FROM OFFSET		STATION	TO OFFSET		LENGTH	REMARKS
	LEFT	RIGHT		LEFT	RIGHT		
"0" 4+84.1		42.1'	"0" 4+84.4		26.3'	15.8'	WOOD
"0" 4+84.4		26.3'	"0" 5+73.2		26.1'	88.8'	WOOD
"0" 5+73.2		26.1'	"0" 5+73		41.1'	15.0'	WOOD
"0" 5+83.4		41.5'	"0" 5+83.8		26.9'	14.6'	WOOD
"0" 5+83.8		26.9'	"0" 6+10.1		26.5'	26.3'	WOOD
"0" 7+35.3		26.5'	"0" 7+83.3		26.5'	48'	CHAIN LINK
"0" 12+39.1		37.5'	"0" 12+38.7		26.1'	11.4'	CHAIN LINK
"0" 12+38.7		26.1'	"0" 12+82.8		26.4'	44.1'	CHAIN LINK
"0" 12+82.8		26.4'	"0" 12+82.8		31.4'	5.0'	CHAIN LINK
"0" 17+83.7		40.1'	"0" 17+83.5		26.0'	14.1'	WOOD
"0" 17+83.5		26.0'	"0" 18+30.8		26.0'	47.3'	WOOD
"0" 18+30.8		26.0'	"0" 18+31.9		67.6'	41.6'	WOOD

SIGN REMOVAL SUMMARY				
SIGN NO.	STATION "0"	OFFSET		LEGEND
		LEFT	RIGHT	
	1+11.58		51.9	
	1+12.24	70.1		
	1+22.89	63.7		
	1+24.53	41.7		
	1+26.01	63.7		
	4+12.7		25.0	
	11+33.88		22.3	
	11+35.11	23.8		
	11+82.92	17.5		STOP
	14+68.08	16.3		
	14+93.69		71.34	
	16+54.03		25.9	

INLET REMOVAL SUMMARY			
STATION "0"	OFFSET		REMARKS
	LEFT	RIGHT	
1+10		39.4'	
1+20		39.4'	
1+28.4	31.5'		
1+87.1		19.5'	
2+31.4	13.9'		
2+56.6	17.9'		
4+76.5		19.5'	
4+83.4	14.2'		
7+83.9	19.8'		
8+33.7		19.7'	
8+35	14.1'		
8+35.1	16.8'		
11+41.5	27.0'		
11+75.6	25.2'		
11+87.8	14.3'		
11+88.4		19.0'	
14+82.7		19.5'	
14+82.4	14.1'		
14+95.6	27.4'		
15+27.8	26.3'		
16+35.6		19.5'	
16+36		14.1'	
18+44.9	27.1'		
18+70.7	27.3'		
18+83.5	14.3'		
18+84.1		19.4'	
20+13.8	21.1'		

VALVE BOX REMOVAL SUMMARY			
STATION "0"	OFFSET		REMARKS
	LEFT	RIGHT	
0+92	21.9'		
3+29.5		15.6'	
3+31.4		15.6'	
4+36.6		16.9'	
4+38.4		15.6'	
4+80		17.3'	
5+03.1		16.7'	
5+20.2		15.4'	
5+55.1		15.5'	
5+73.9		16.7'	
6+31.8		15.3'	
6+33.4		15.5'	
7+85.9	21.7'		
7+86.2		14.9'	
7+87.5		16.1'	
7+92.5		24.1'	
7+98.1		17.2'	
7+98.8		26.8'	
9+98.8		14.9'	
11+44		11.4'	
11+45.4		9.9'	
11+48.9		8.7'	
11+48.8		12.9'	
11+49		33.9'	
11+49.8		69.2'	
11+50		58.3'	
11+53.5		13.7'	
11+53.2		70.3'	
11+56.6		11.3'	
11+50.6	54.4'		
11+49.1	38.4'		
12+57.9		12.8'	
13+07.9		12.2'	
13+21.9		11.0'	
13+41.7		9.5'	
13+71.1		11.6'	
14+07		10.7'	
14+09.4		11.3'	
14+35.4		10.3'	
14+84.6		11.3'	
15+33.1		11.6'	
15+34.5		9.60'	
15+61.3		26.9'	
15+95		10.9'	
17+73.5		10.1'	
18+40.8		11.8'	
18+44.9		11.3'	
18+45.2		13.6'	
18+53.9		12.4'	
18+83.1		13.0'	
19+32.7		12.6'	
19+92.4		12.8'	
19+96.7		11.4'	
20+35.4		12.5'	

PIPE HANDRAIL REMOVAL SUMMARY							
STATION	FROM OFFSET		STATION	TO OFFSET		LENGTH	REMARKS
	LEFT	RIGHT		LEFT	RIGHT		
"0" 1+70		23.0'	"0" 3+48.1		25.6'	178.1'	HANDRAIL
"0" 6+33.8		26.4'	"0" 6+91.6		26.5'	57.8'	HANDRAIL
"0" 3+97.6		25.7'	"0" 4+26		25.4'	28.4'	HANDRAIL
"0" 12+13.7		25.6'	"0" 12+29		25.6'	15.3'	HANDRAIL
"0" 12+82.5		25.8'	"0" 13+03.9		25.7'	21.4'	HANDRAIL
"0" 13+10		25.7'	"0" 13+68.3		25.5'	58.3'	HANDRAIL
"0" 13+72.6		25.6'	"0" 14+14.5		25.4'	41.9'	HANDRAIL
"0" 14+32.3		25.5'	"0" 14+83		25.5'	50.7'	HANDRAIL
"0" 16+29.7		25.5'	"0" 16+35.6		25.6'	5.9'	HANDRAIL
"J" 9+24.8		21.4'	"J" 9+74.5		20.9'	49.7'	HANDRAIL
"J" 9+76.9		21.0'	"J" 9+84.2		21.1'	7.3'	HANDRAIL

MANHOLE REMOVAL SUMMARY			
STATION "0"	OFFSET		REMARKS
	LEFT	RIGHT	
1+10.1	11.3'		STORM DRAIN
1+21.5	10.6'		STORM DRAIN
2+14.77		7.19'	SANITARY SEWER
2+26.4	11.5'		STORM DRAIN
4+63.19		6.87'	SANITARY SEWER
4+76.7	10.6'		STORM DRAIN
8+12.45		6.99'	SANITARY SEWER
8+35.2	8.9'		STORM DRAIN
11+64.05		6.36'	SANITARY SEWER
15+12.66		7.70'	SANITARY SEWER
15+30.90		11.11'	SANITARY SEWER
16+87.5	19.2'		STORM DRAIN
18+52.43	37.32'		SANITARY SEWER
18+52.87		8.48'	SANITARY SEWER
18+52.93		54.39'	SANITARY SEWER

REPLACE/ADJUST STAIRS/DECK			
STATION "0"	OFFSET		REMARKS
	LEFT	RIGHT	
1+82.3	X		REPLACE WOODEN STAIRS
5+19.1	X		REPLACE CONCRETE STAIRS w/ WOOD
5+20.9		X	ADJUST STONE WALK
5+44.3	X		REPLACE WOODEN STAIRS
6+61.7		X	REPLACE WOODEN STAIRS (CONCRETE)
9+36.5	X		REPLACE WOODEN STAIRS
12+26.8	X		REPLACE CONCRETE STAIRS
12+49.7	X		REPLACE CONCRETE STAIRS
13+20.1	*		REPLACE WOODEN STAIRS
16+91.7	X		REPLACE CONCRETE STAIRS

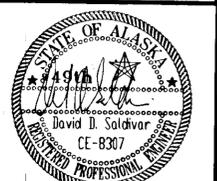
REMOVAL OF STRUCTURES & OBSTRUCTIONS			
STATION "0" LINE	OFFSET		REMARKS
	LEFT	RIGHT	
4+00.0	26.4'		CONCRETE PAD
4+80.0		29.5'	CONCRETE PAD FOR HYDRANT (1.3 SF)
17+00			TIMBER BRIDGE, SEE SHEET 44

PATH: P:\KTN\72089\DR\SUM1	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION DESIGN & CONSTRUCTION	KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION STP-0003(48) ~ 72089	ALASKA	DESIGNED BY: M. SHEELER	PROJECT NO. 72089
PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)				DRAWN BY: K. SNYDER	DATE: 4/9/98
BY: DATE: DESCRIPTION OF CHANGE:				CHECKED BY: D. SALDIVAR	SHEET 8 OF 84

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

KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(48) ~ 72089  
ALASKA  
ROADWAY SUMMARY OF QUANTITIES

DESIGNED BY:  
M. SHEELER  
PROJECT NO.  
72089  
DRAWN BY:  
K. SNYDER  
DATE:  
4/9/98  
CHECKED BY:  
D. SALDIVAR  
SHEET 8 OF 84



**CROSS CULVERT PIPE SUMMARY**

PIPE NO.	TYPE	DIAMETER	LENGTH	FROM	PIPE INVERT	TO	PIPE INVERT	REMARKS
				STRUCTURE/STATION		STRUCTURE/STATION		
P-1	CPP	18"	47.5'	S-1	20.00	S-2	19.20	
P-2	CPP	18"	35.1'	S-2	19.10	S-3	18.70	
P-3	CPP	24"	40.6'	NEW S-4A	19.34	S-3	18.20	
P-4	CPP	18"	49.2'	S-5	24.11	S-2	19.20	
P-5	CPP	18"	8.1'	"O" 1+50.29, 47.62' LT.	23.00	S-4	19.84	
P-6	CPP	24"	109.6'	S-6	31.64	S-4	19.42	
P-7	CPP	18"	8.0'	S-7	33.07	S-6	32.24	
P-8	CPP	18"	35.4'	S-8	37.13	S-7 P-1	33.17	Pipe Connected w/ pipe collar/sleeve.
P-9	CPP	24"	116.5'	S-9	48.38	S-6	31.74	
P-10	CPP	18"	31.0'	S-10	49.50	S-9	48.88	
P-11	CPP	24"	146.1'	S-11	65.73	S-9	48.48	
P-12	CPP	18"	8.5'	S-13	66.91	S-11	66.43	
P-13	CPP	18"	33.4'	S-12	67.39	S-11	66.43	
P-14	CPP	24"	202.4'	S-14	81.00	S-11	65.83	
P-15	CPP	18"	31.0'	S-15	82.35	S-14	81.70	
P-16	CPP	18"	10.3'	S-16	82.16	S-14	81.70	
P-17	CPP	24"	129'	S-17	91.48	S-14	81.10	
P-18	CPP	24"	10.3'	S-18	92.18	S-17	91.68	
P-19	CPP	18"	37.6'	S-19	93.76	S-18	92.68	
P-20	CPP	18"	39.0'	S-20	94.46	S-19	93.86	
P-21	CPP	18"	167.5'	S-21	105.21	S-20	94.56	
P-22	CPP	18"	35.0'	S-22	116.71	S-23	116.01	
P-23	CPP	18"	53.2'	S-23	115.91	S-24	112.33	
P-24	CPP	18"	38.5'	S-25	114.52	S-24	112.56	
P-25	CPP	18"	39.0'	S-26	115.42	S-25	114.62	
P-26	CPP	18"	39.0'	S-28	118.93	S-27	118.13	
P-27	CPP	18"	30.7'	S-29	118.03	S-29	115.56	
P-28	CPP	24"	50.5'	S-30	116.80	S-29	113.86	
P-29	CPP	18"	33.0'	S-31	118.98	S-30	118.34	
P-30	CPP	18"	30.0'	S-33	110.93	S-32	110.13	
P-31	CPP	18"	22.5'	S-32	110.13	S-34	109.50	
P-32	CAP	30"	26.3'	"O" 16+63, 21' LT.	100.50±	S-34	99.50	
P-33	CAP	24"	22.4'	"O" 16+89, 18' LT.	103.40±	S-34	103.00	
P-34	CAP	48"	26.5'	S-34	98.00	"O" 18+93, 26.5' RT.	96.00	Extended "DOWN STREAM" for safety.
P-35	CPP	30"	218.1'	S-40	122.00	S-34	108.50	
P-36	CPP	18"	27'	S-35	123.40	S-36	122.70	
P-37	CAP	15"	7.7'	S-36	120.60	"A" 10+73.8, 12.7' RT.	120.00	
P-38	CPP	18"	13.8'	S-37	123.45	S-39	123.20	
P-39	CPP	18"	8.0'	S-39	123.20	S-40	123.00	
P-40	CPP	24"	30.9'	S-38	123.00	S-40	122.50	
P-41	CPP	24"	107.9'	S-41	130.52	S-40	123.49	
P-42	CPP	24"	44.2'	"O" 20+50, 19.5' RT.	133.24	S-38	123.10	
P-43	CAP	36"	57.5'	"JA" 10+37.5, 12.5' LT.	*	"JA" 10+89.5, 13' RT.	*	

**DRAINAGE STRUCTURE SUMMARY**

STRUCTURE NUMBER	STATION	OFFSET	TOP OF GRATE/LID	STRUCT. INVERT	REMARKS
S-1	"O" 1+08.50	49.4' RT	22.63	18.60	INLET, TYPE A
S-2	"O" 1+09.72	4.3' LT	22.60	17.60	MANHOLE, TYPE I
S-3	"O" 1+14.37	46.2' LT	23.34	18.04	EXISTING MANHOLE TO REMAIN. NEW M.H. TYPE II
S-4	"O" 1+42.9	45' LT	26.67	19.36	MANHOLE, TYPE I EXISTING LEFT IN PLACE
S-5	"O" 1+68.9	16.7' RT	27.61	22.61	NEW M.H. REMAINS IN PLACE - S-4 REMAINS IN PLACE
S-6	"O" 2+26	11.5' LT	36.64	31.64	MANHOLE, TYPE I
S-7	"O" 2+26	18.5' LT	36.57	31.57	FIELD INLET, TYPE A
S-8	"O" 2+6+86	21.8' LT	40.63	35.63	INLET, TYPE A
S-9	"O" 3+42.5	11.5' LT	53.38	48.38	MANHOLE, TYPE I
S-10	"O" 3+42.5	18.5' RT	52.62	48.60	INLET, TYPE A
S-11	"O" 4+88.6	11.5' LT	70.73	65.73	MANHOLE, TYPE I
S-12	"O" 5+00.9	18.5' RT	70.30	65.30	INLET, TYPE A
S-13	"O" 4+85.7	18.5' LT	70.41	65.41	INLET, TYPE A
S-14	"O" 6+09	11.5' LT	87.92	81.92	MANHOLE, TYPE I
S-15	"O" 6+09	18.5' RT	86.84	80.84	INLET, TYPE A
S-16	"O" 6+91	21.8' LT	85.66	80.66	FIELD INLET, TYPE A
S-17	"O" 8+20	11.5' LT	96.48	91.58	MANHOLE, TYPE I
S-18	"O" 8+20	21.8' LT	95.45	90.68	FIELD INLET, TYPE A
S-19	"O" 8+57.5	18.5' LT	98.87	92.26	INLET, TYPE A
S-20	"O" 8+57.5	18.5' RT	98.06	92.96	INLET, TYPE A
S-21	"O" 10+25	18.5' RT	108.71	103.71	INLET, TYPE A
S-22	"M" 10+81.5	16.5' LT	120.21	114.21	INLET, TYPE A
S-23	"M" 10+81.5	16.5' RT	120.21	114.21	INLET, TYPE A
S-24	"M" 10+28.4	14.3' RT	114.62	112.16	EXISTING MANHOLE
S-25	"O" 12+11.41	18.5' LT	118.92	113.92	INLET, TYPE A
S-26	"O" 12+11.41	18.5' RT	118.11	113.11	INLET, TYPE A
S-27	"O" 14+59.94	18.5' LT	122.18	116.18	INLET, TYPE A
S-28	"O" 14+59.74	18.5' RT	122.44	117.44	INLET, TYPE A
S-29	"J" 10+30.96	15.67' LT	118.56	113.66	EXISTING MANHOLE
S-30	"J" 10+81.5	15.5' LT	122.48	115.30	INLET, TYPE A
S-31	"J" 10+81.5	15.5' LT	122.48	117.48	INLET, TYPE A
S-32	"O" 16+65.95	18.5' RT	113.62	108.53	INLET, TYPE A
S-33	"O" 16+65.95	18.5' LT	114.43	109.43	INLET, TYPE A
S-34	"O" 16+89.00	0	114.33	98.00	MANHOLE, TYPE II
S-35	"A" 10+81.5	12.5' LT	126.90	121.90	INLET, TYPE A
S-36	"A" 10+81.5	12.5' RT	126.90	119.10	INLET, TYPE A
S-37	"O" 18+93	20.5' RT	125.30	121.95	FIELD INLET, TYPE A
S-38	"O" 19+06.80	18.5' RT	126.61	121.60	INLET, TYPE A
S-39	"O" 19+06.80	18.5' LT	127.42	121.70	INLET, TYPE A
S-40	"O" 19+06.80	11.5' LT	127.49	122.00	MANHOLE, TYPE I
S-41	"O" 20+14.69	21.8' LT	134.02	129.02	FIELD, INLET TYPE A
<b>TOTAL</b>					INLET, TYPE A = 29
					MANHOLE, TYPE I = 7
					MANHOLE, TYPE II = + 2

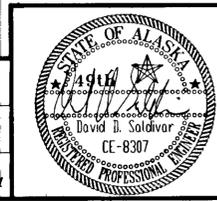
NOTE:  
 CPP = CORRUGATED POLYETHYLENE PIPE  
 CAP = CORRUGATED ALUMINUM PIPE

PATH: P:\KTN\72089\DR\SUM3	STATE OF ALASKA	KETCHIKAN	ALASKA
PLOT: P:\LIB\LOT\LOT.PCP(1) OR PLOT.PCP(2)	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	KTN-THIRD AVENUE RECONSTRUCTION	DESIGNED BY: M. SHEELER
BY: DATE: DESCRIPTION OF CHANGE:	SOUTHEAST REGION DESIGN & CONSTRUCTION	STP-0003(48) ~ 72089	DRAWN BY: K. SNYDER
RECORD OF REVISIONS			

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

KETCHIKAN  
 KTN-THIRD AVENUE RECONSTRUCTION  
 STP-0003(48) ~ 72089  
**ROADWAY SUMMARY OF QUANTITIES**

CHECKED BY: D. SALDIVAR	PROJECT NO. 72089
	DATE: 4/1/98
	SHEET 9 OF 84



**CULVERT REMOVAL SUMMARY**

FROM		TO		SIZE	LENGTH	REMARKS
STATION "O"	OFFSET	STATION "O"	OFFSET			
1+10.1	11.3' LT	1+21.5	10.6' LT	8"	11.5'	
1+20	39.4' RT	1+21.5	10.6' LT	8"	50'	
1+10.1	39.2' RT	1+20	39.4' RT	8"	10'	
1+21.5	10.6' LT	1+28.4	31.5' LT	8"	22.5'	
1+14.4	46.3' LT	1+42.9	45' LT	18"	40.5'	
1+50.3	47.6' LT	1+42.9	45' LT	18"	12.5'	
1+20	39.4' RT	1+87.1	19.5' RT	8"	43.5'	
1+42.9	45' LT	2+26.4	11.5' LT	15"	110'	
2+26.4	11.5' LT	4+76.8	10.6' LT	15"	250.5'	
4+76.5	19.5' RT	4+76.5	10.6' LT	8"	30'	
4+76.8	10.6' LT	4+83.83	14.0' LT	8"	8'	
4+76.8	10.6' LT	8+35.2	8.9' LT	12"	358.5'	
7+64.6	19.7' LT	7+83.6	19.4' LT	12"	19'	
8+33.7	19.7' RT	8+35.2	8.9' LT	8"	28.5'	
8+35.0	13.8' LT	8+35.2	8.9' LT	8"	5'	
8+35	18.8' LT	8+35.2	16.7' LT	8"	3'	
11+42	27.2' LT	11+75.5	27.2' LT	8"	34'	
11+73	21.6' RT	11+75.5	27.2' LT	12"	49'	
11+73	21.6' RT	11+88.1	19.1' RT	8"	15.5'	
11+87.8	13.9' LT	11+88.1	19.1' RT	8"	33.5'	
14+82.5	13.8' LT	14+82.9	19.5' RT	8"	33.5'	
14+82.9	19.5' RT	14+96.1	19.1' RT	8"	13.5'	
14+95.8	27.3' LT	15+27.7	26.3' LT	8"	32.5'	
14+95.8	27.3' LT	14+96.1	19.1' RT	24"	46.5'	
16+35.4	19' RT	16+36	14' LT	8"	33.5'	
16+35.4	19' RT	16+75.2	8.6' RT	8"	41'	
16+87	18.5' LT	17+84.4	21.4' LT	24"	97'	
18+26.2	20.6' LT	18+80.6	20.9' LT	24"	54.5'	
18+44.9	27.1' LT	18+70.3	27.3' LT	8"	26'	
18+83.5	14' LT	18+84.1	19.3' RT	8"	33.5'	
19+66.1	17.4' LT	20+12.8	21.6' LT	18"	47'	
<b>TOTAL</b>					1,593.5'	

**PIPE HANDRAIL INSTALLATION SUMMARY**

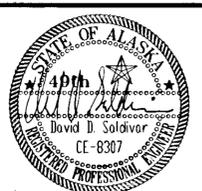
FROM		TO		LENGTH	REMARKS
STATION	OFFSET		STATION		
	LEFT	RIGHT		LEFT	RIGHT
"O" 1+74.50		25.75'	"O" 3+46.5	25.75'	172.0'
"O" 4+02		25.75'	"O" 4+27	25.75'	25.00'
"O" 6+34		38.00'	"O" 6+34	25.75'	12.25'
"O" 6+34		25.75'	"O" 7+11	25.75'	77.00'
"O" 7+11		25.75'	"O" 7+11	36.50'	10.75'
"O" 11+84		25.75'	"O" 12+07	25.75'	23.00'
"O" 12+13		25.75'	"O" 12+31	25.75'	18.00'
"O" 12+82		25.75'	"O" 13+04	25.75'	22.00'
"O" 13+10		25.75'	"O" 13+68	25.75'	58.00'
"O" 13+72.5		25.75'	"O" 14+14.5	25.75'	42.00'
"O" 14+32		25.75'	"O" 14+83	25.75'	51.00'
"O" 16+27		25.75'	"O" 16+36	25.75'	9.00'
"O" 16+40		25.75'	"O" 17+43.5	25.75'	103.5'
"J" 9+25		21.25'	"J" 9+74.5	21.25'	49.50'
"J" 9+77		21.25'	"J" 9+84	21.25'	7.00'
<b>TOTAL =</b>					680'

PATH: P: \KIN\72089\DR\SUM4
PLOT: P: \-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)
BY: _____ DATE: _____ DESCRIPTION OF CHANGE: _____
<b>RECORD OF REVISIONS</b>

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

KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION ALASKA  
STP-0003(18) ~ 72089  
**ROADWAY SUMMARY OF QUANTITIES**

DESIGNED BY: M. SHEELER	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/9/98
CHECKED BY: D. SALDIVAR	SHEET 10 OF 84



## STANDARD SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET		CODE NO. (ASDS)	LEGEND	SIZE		AREA S.F.	POST SIZE	FACING TRAFFIC	REMARKS	
		LT.	RT.			H	W					
1	0+30	X		R1-1	STOP	30	30	6.25	2.5	WB		
2	0+30	X		D3-1	TONGASS AV	6.75	42	1.97		WB/EB	MOUNT ON SAME POST AS 1	
3	0+30	X		D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 1	
4	3+44		X	W11-2	PEDESTRIAN ADVANCE	36	36	9.00	2.5	EB		
5	4+37	X		D3-1	JACKSON ST	6.75	42	1.97	2.5	WB/EB		
6	5+00		X	R2-1	SPEED LIMIT 25	30	36	7.50	2.5	EB		
7	5+65		X	W11-2	PEDESTRIAN ADVANCE	36	36	9.00	2.5	WB		
8	7+20		X	W11-2	PEDESTRIAN ADVANCE	36	36	9.00	2.5	EB		
9	8+24	X		D3-1	MONROE ST	6.75	36	1.69	2.5	WB/EB		
10	9+35	X		W11-2	PEDESTRIAN ADVANCE	36	36	9.00	2.5	WB		
11	11+23		X	R1-1	STOP	30	30	6.25	2.5	EB		
12	11+23		X	D3-1	MADISON ST	6.75	36	1.69		WB/EB	MOUNT ON SAME POST AS 11	
13	11+23		X	D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 11	
14	11+95	X		R1-1	STOP	30	30	6.25	2.5	WB		
15	11+95	X		D3-1	MADISON ST	6.75	36	1.69		WB/EB	MOUNT ON SAME POST AS 14	
16	11+95	X		D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 14	
17	13+47	X		R2-1	SPEED LIMIT 25	30	36	7.50	2.5	WB		
18	14+80		X	R1-1	STOP	30	30	6.25	2.5	EB		
19	14+80		X	D3-1	JEFFERSON ST	6.75	36	1.69		WB/EB	MOUNT ON SAME POST AS 18	
20	14+80		X	D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 18	
21	15+45	X		R1-1	STOP	30	30	6.25	2.5	WB		
22	15+45	X		D3-1	JEFFERSON ST	6.75	36	1.69		WB/EB	MOUNT ON SAME POST AS 21	
23	15+45	X		D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 21	
24	16+50		X	R2-1	SPEED LIMIT 25	30	36	7.50	2.5	EB		
25	18+35		X	R1-1	STOP	30	30	6.25	2.5	EB		
26	18+35		X	D3-1	ADAMS ST	6.75	24	1.13		WB/EB	MOUNT ON SAME POST AS 25	
27	18+35		X	D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 25	
28	18+93	X		R1-1	STOP	30	30	6.25	2.5	WB		
29	18+93	X		D3-1	ADAMS ST	6.75	24	1.13		WB/EB	MOUNT ON SAME POST AS 28	
30	18+93	X		D3-1	3RD AV	6.75	24	1.13		NB/SB	MOUNT ON SAME POST AS 28	
						TOTAL = 124.81						

## 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. SALVAGED SIGNS AND REPLACED SIGN PANELS SHALL BE DELIVERED TO THE CITY OF KETCHIKAN AT 3915 TONGASS AVE.
4. WHERE SIGNS ARE TO BE LOCATED ON THE DOWNHILL SIDE OF THE STREET, IN AREAS THAT HAVE RETAINING WALLS AT THE BACK OF SIDEWALKS, THE SIGNS SHALL BE MOUNTED TO THE SIDE OF THE RETAINING WALL.
5. PT POST TYPE STANDS FOR PERFORATED STEEL TUBE WITH A POST SLEEVE FOR EMBEDMENT.

PATH: P: \KTN\72089\DR\--SIGNSUM		
PLOT: P: \-LIB\--PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

KETCHIKAN

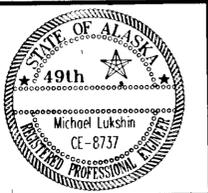
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(4B) ~ 72089

ALASKA

### ROADWAY SIGNING SUMMARIES

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

PROJECT NO. 72089
DATE:
SHEET 11 OF 58



**BASIS OF CONTROL**

**HORIZONTAL CONTROL:**

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS THE BEARING OF S 87°44'16"E FROM DOT/PF CONTROL MONUMENT SB-73, A 2" ALUMINUM SURVEY CAP STAMPED "TW-10 1993", GROUTED INTO THE NORTH SIDEWALK OF TONGASS AVE. IN FRONT OF THE KPU STEPS AT 3RD AND TONGASS, WITH PROJECT COORDINATES OF: N=91,288.666, E=98,877.304 AND DOT/PF CONTROL MONUMENT SB-72, A 2" ALUMINUM SURVEY CAP STAMPED "SB-72 1994", SET IN THE 3RD AVE. PAVEMENT 6.0' OUT FROM THE SOUTH FACE OF CURB JUST WEST OF HOUSE #2749, WITH PROJECT COORDINATES OF: N=91,270.800, E=99,329.583.

**VERTICAL CONTROL:**

THE BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS THE DOT/PF CONTROL MONUMENT SB-73 WITH AN ACCEPTED ELEVATION OF 23.76' ABOVE MLLW.

MONUMENT SB-73  
"TW-10 1993"  
N = 91,288.666  
E = 98,877.304  
ELEV. = 23.76

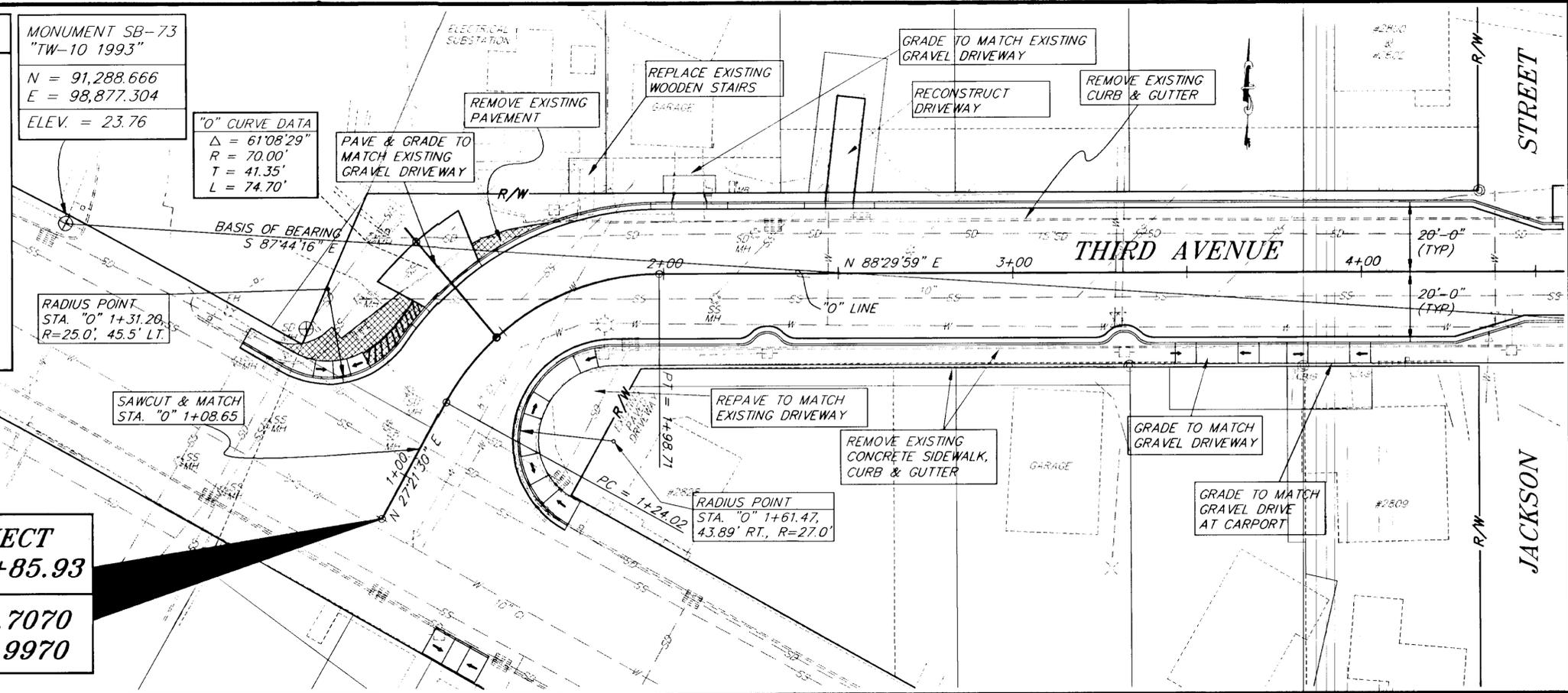
"O" CURVE DATA  
Δ = 61°08'29"  
R = 70.00'  
T = 41.35'  
L = 74.70'

RADIUS POINT  
STA. "O" 1+31.20,  
R=25.0', 45.5' LT.

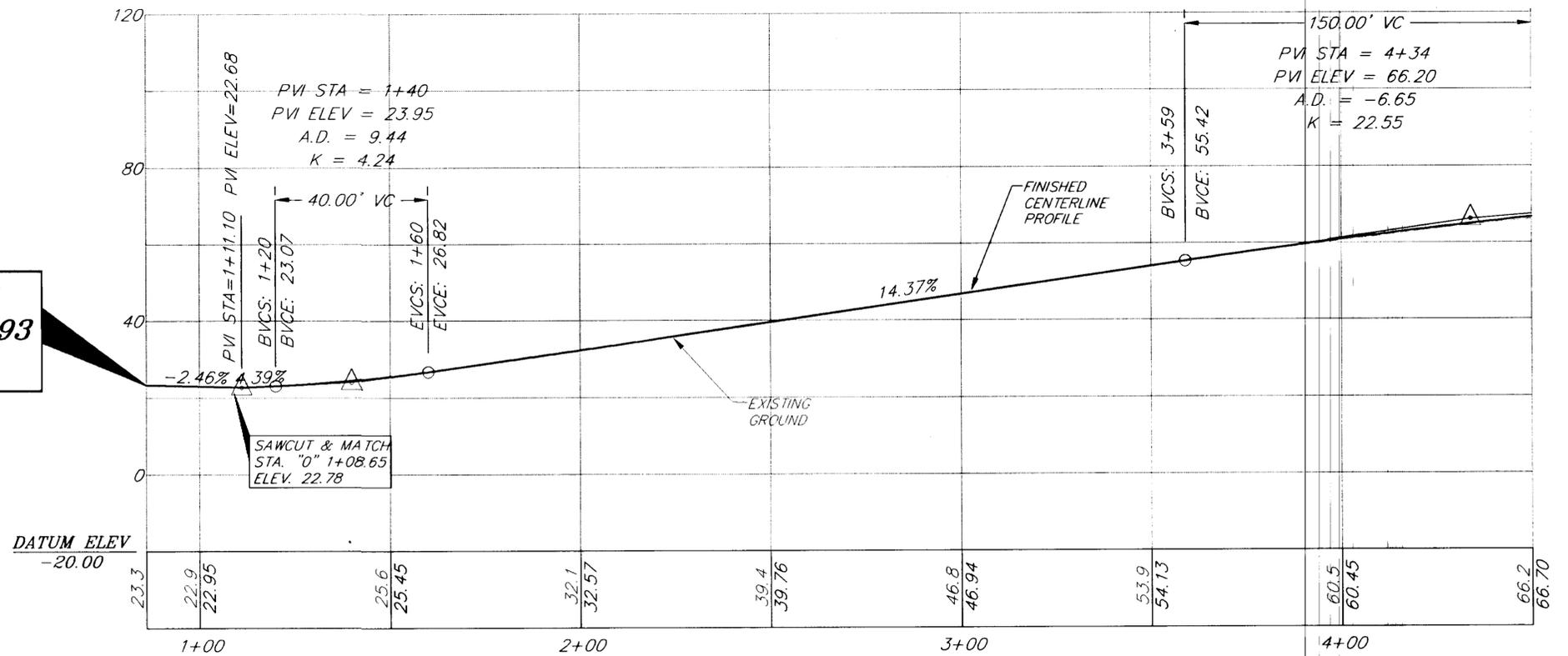
SAWCUT & MATCH  
STA. "O" 1+08.65

**BEGIN PROJECT  
STA. "O" 0+85.93**

**N = 91,206.7070  
E = 98,969.9970**



**BEGIN PROJECT  
STA. "O" 0+85.93  
ELEV. 23.30**



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

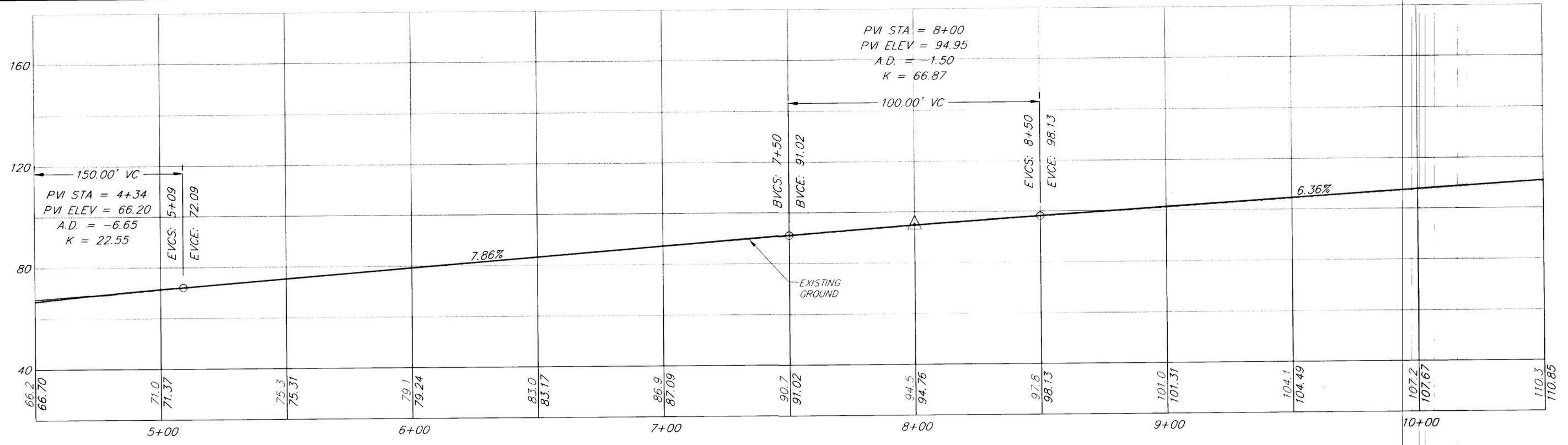
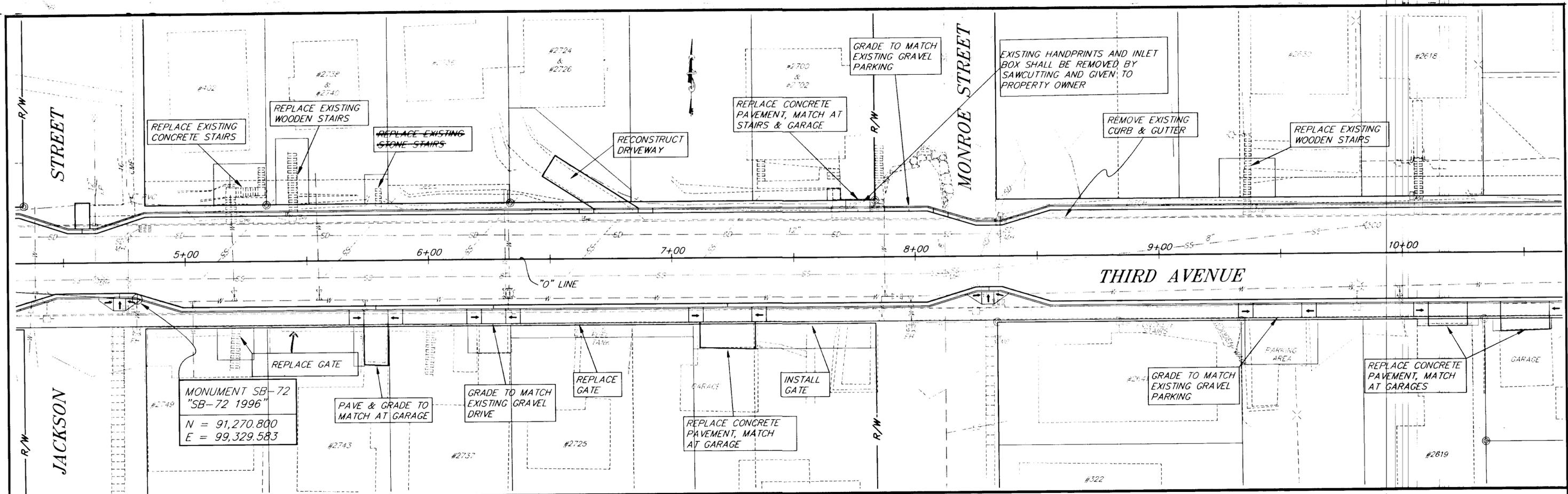
PATH: P:\KTN\72089\DR\SETUP VIEWS: PLAN1, PRO1, TB1		
PLOT: P:\LIB\PLOT\PLOT.PCP(1) OR PLOT.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

KETCHIKAN  
KTN-THIRD AVE. RECONSTRUCTION  
STP-0003(48) ~ PROJECT NO. 72089  
**B.O.P. STA. "O" 0+85.93 TO STA. "O" 4+50**  
ALASKA  
DESIGNED BY: M. SHEELER  
DRAWN BY: K. SNYDER  
CHECKED BY: D. SALDIVAR  
PLAN & PROFILE

DESIGNED BY: M. SHEELER  
DRAWN BY: K. SNYDER  
CHECKED BY: D. SALDIVAR  
PROJECT NO. 72089  
DATE: 4/1/98  
SHEET 12 OF 84





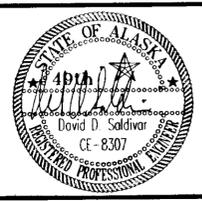
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

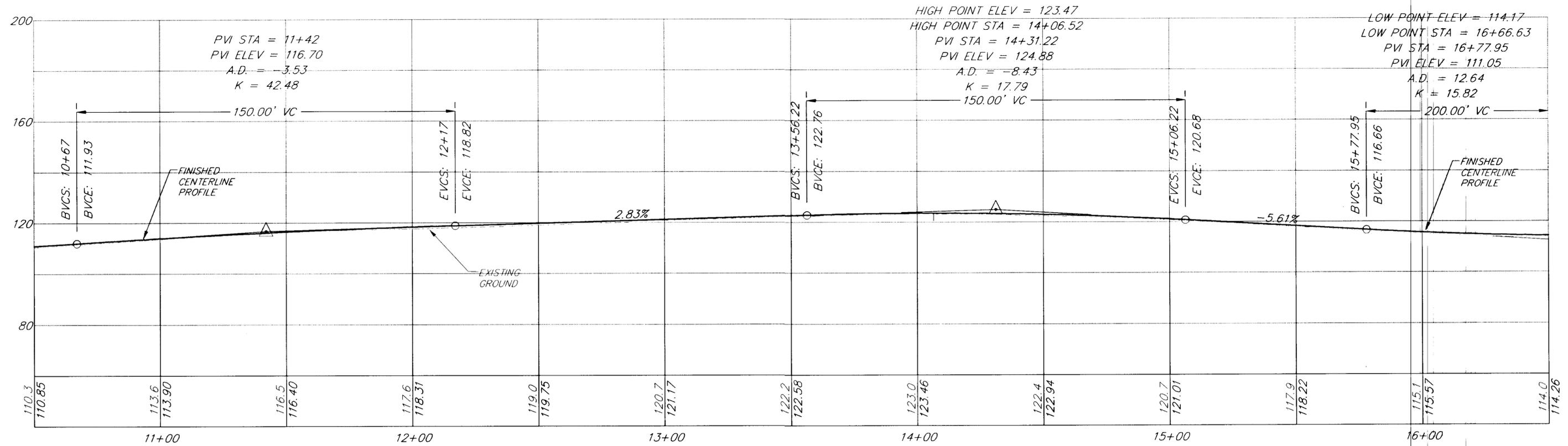
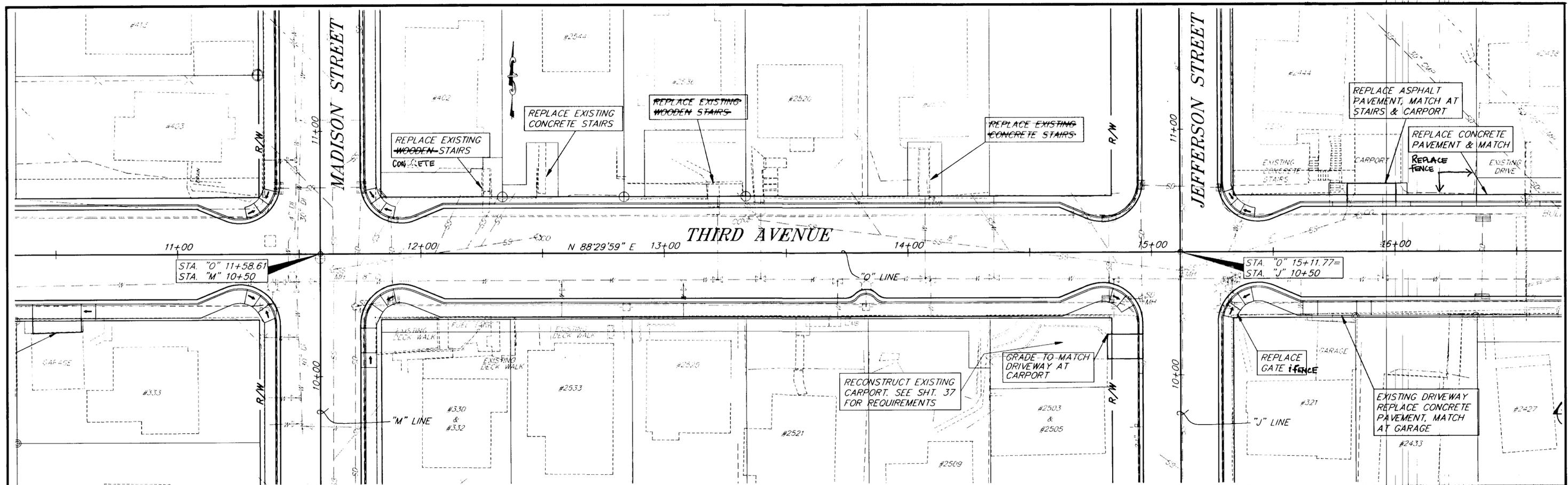
RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

KETCHIKAN ALASKA  
 KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
**STA. "0" 4+50 TO STA. "0" 10+50**  
 PLAN & PROFILE

DESIGNED BY: <b>M. SHEELER</b>	PROJECT NO. <b>72089</b>
DRAWN BY: <b>K. SNYDER</b>	DATE: <b>4/4/98</b>
CHECKED BY: <b>D. SALDIVAR</b>	SHEET <b>13</b> OF <b>84</b>





NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

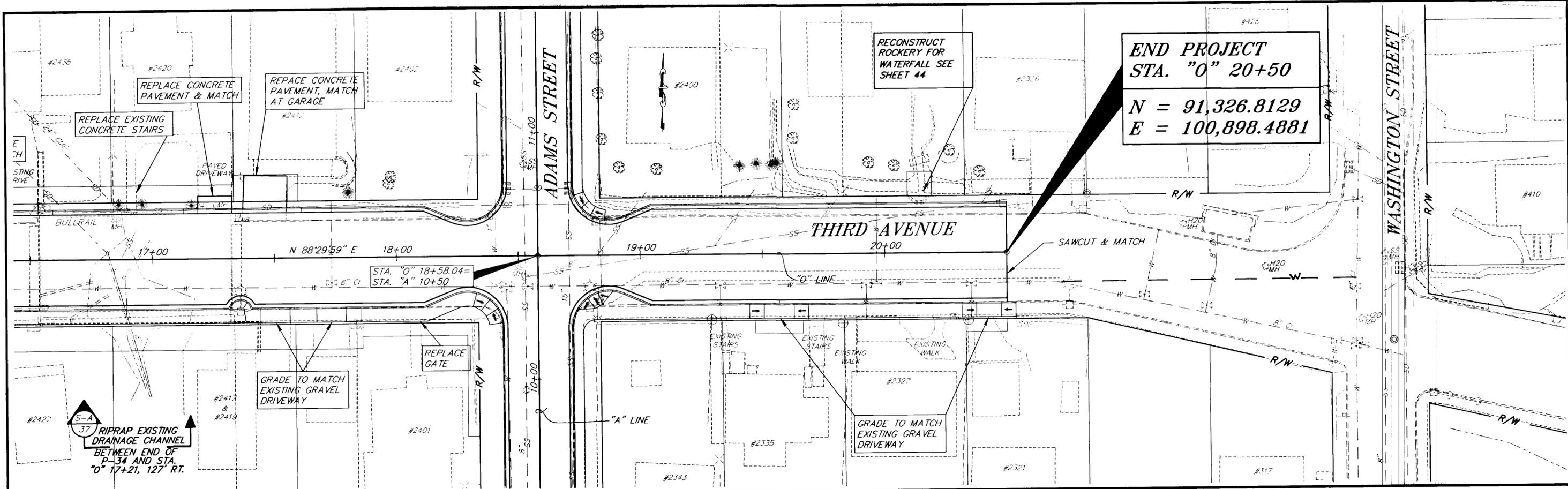
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
**STA. "O" 10+50 TO STA. "O" 16+50**  
 PLAN & PROFILE

DESIGNED BY: M. SHEELER  
 DRAWN BY: K. SNYDER  
 CHECKED BY: D. SALDIVAR

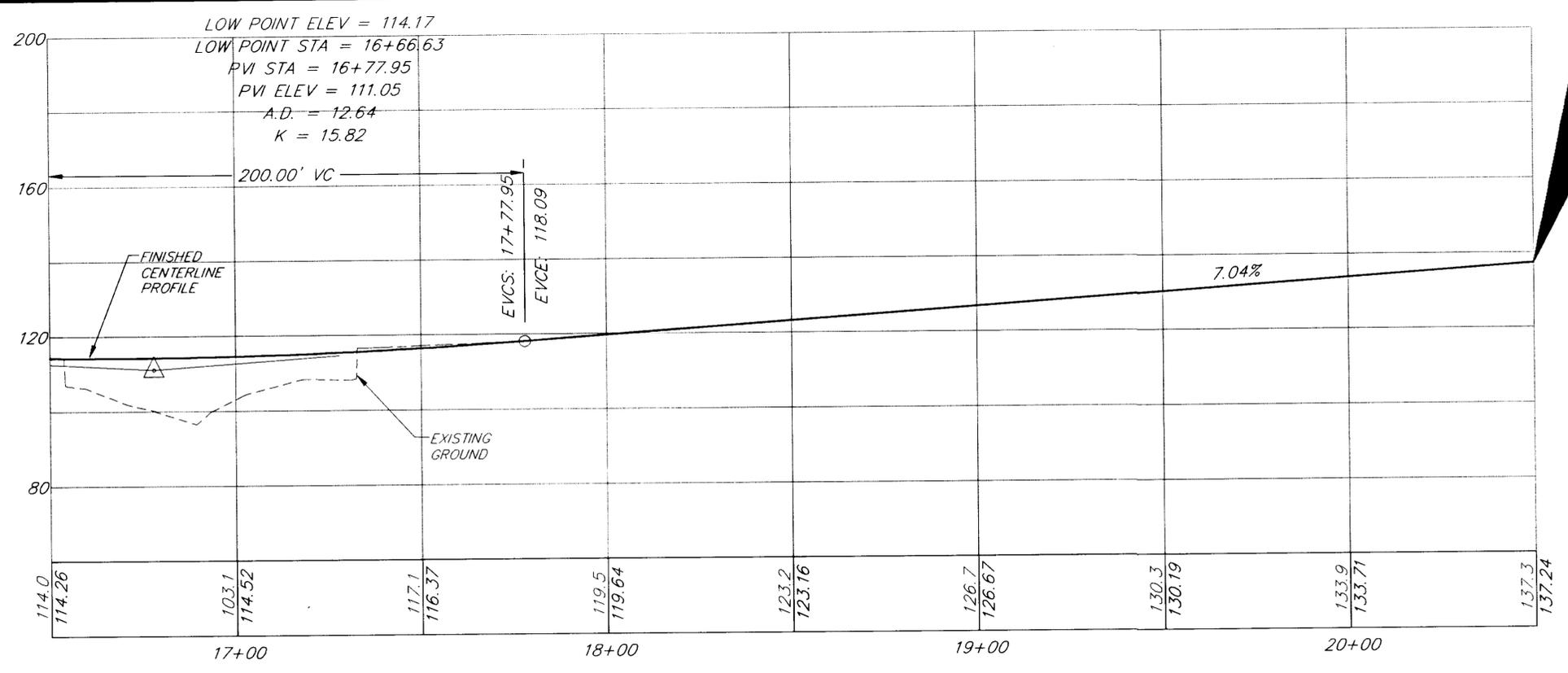
PROJECT NO. 72089  
 DATE: 4/9/18  
 SHEET 14 OF 84





**END PROJECT  
STA. "O" 20+50**  
N = 91,326.8129  
E = 100,898.4881

**END PROJECT  
STA. "O" 20+50  
ELEV. 137.24**

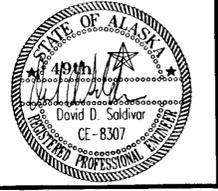


PATH: P:\KTN\72089\DR-SETUP VIEWS: PLAN4, PRO4, TB4		
PLOT: P:\-LIB- PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

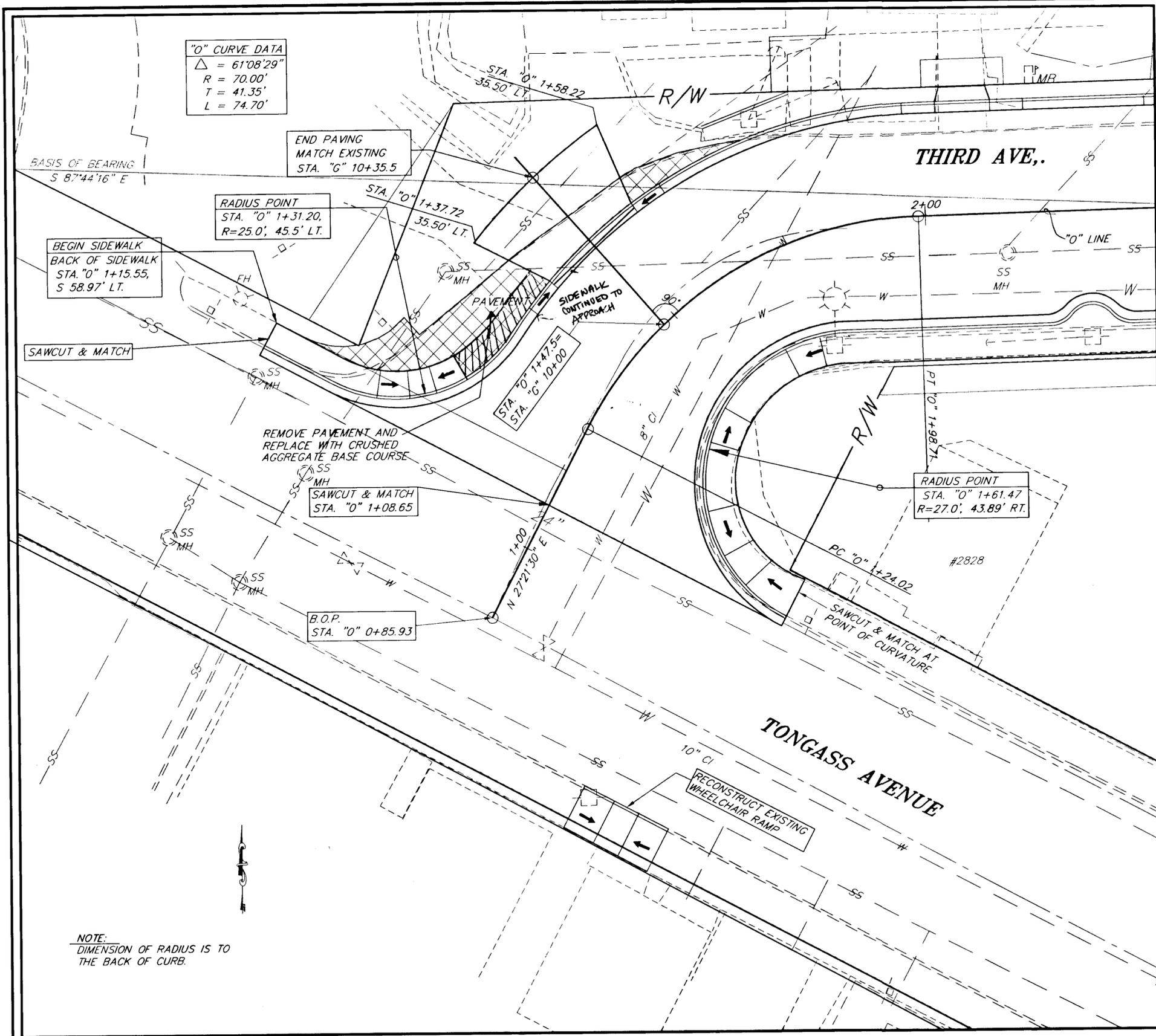
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
KTN-THIRD AVE. RECONSTRUCTION  
STP-0003(48) ~ PROJECT NO. 72089  
**STA. "O" 16+50 TO STA. "O" 20+50**  
PLAN & PROFILE

DESIGNED BY: M. SHEELER	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/9/98
CHECKED BY: D. SALDIVAR	SHEET 15 OF 84



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



"O" CURVE DATA  
 $\Delta = 61^{\circ}08'29"$   
 $R = 70.00'$   
 $T = 41.35'$   
 $L = 74.70'$

END PAVING  
 MATCH EXISTING  
 STA. "G" 10+35.5

RADIUS POINT  
 STA. "O" 1+31.20,  
 $R=25.0'$ , 45.5' LT.

BEGIN SIDEWALK  
 BACK OF SIDEWALK  
 STA. "O" 1+15.55,  
 $S 58.97' LT.$

SAWCUT & MATCH

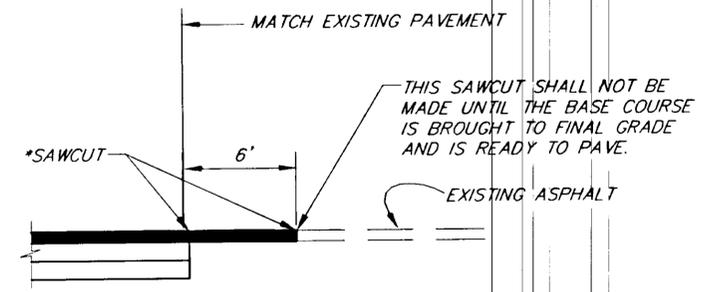
REMOVE PAVEMENT AND  
 REPLACE WITH CRUSHED  
 AGGREGATE BASE COURSE

SAWCUT & MATCH  
 STA. "O" 1+08.65

B.O.P.  
 STA. "O" 0+85.93

THIRD AVE.,

TONGASS AVENUE



**PAVEMENT JOINT DETAIL**

NOTE:  
 DIMENSION OF RADIUS IS TO  
 THE BACK OF CURB.

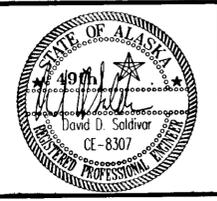
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

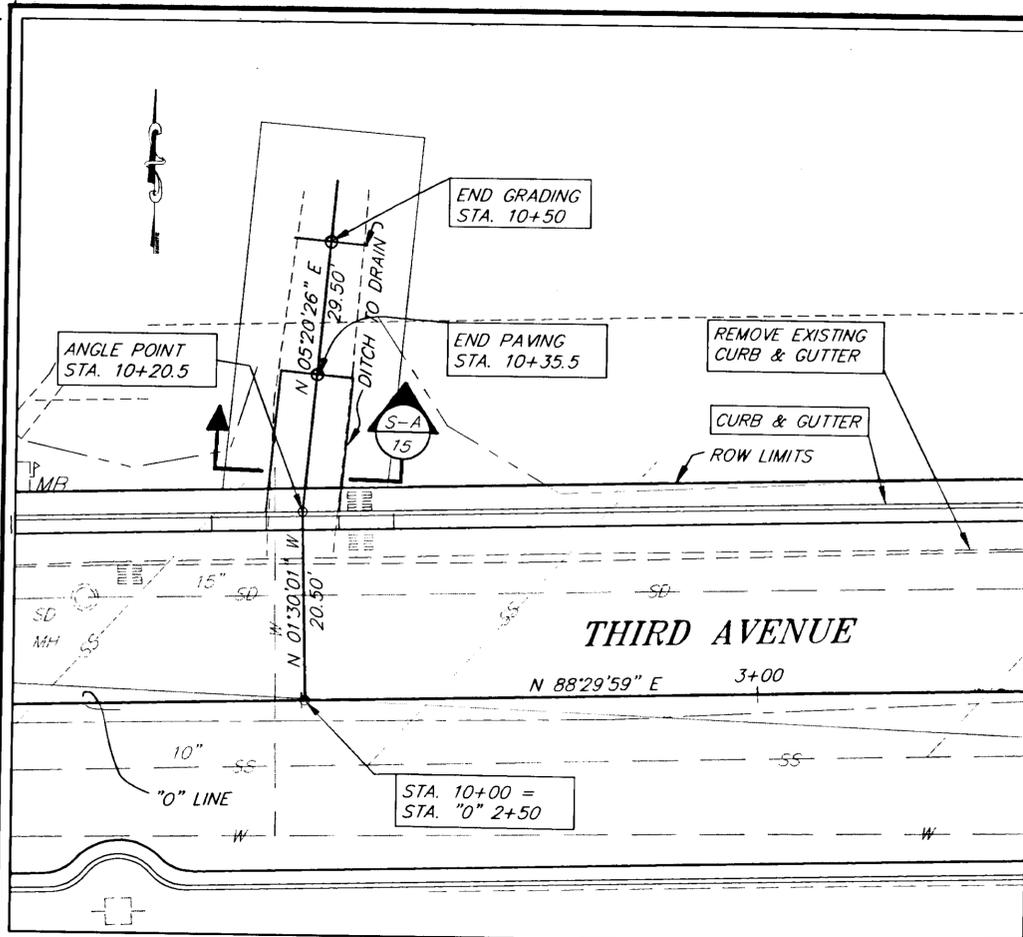
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PLOT: P: \—LIB\—PLOT\PL0T.PCP(10) OR PLOT.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

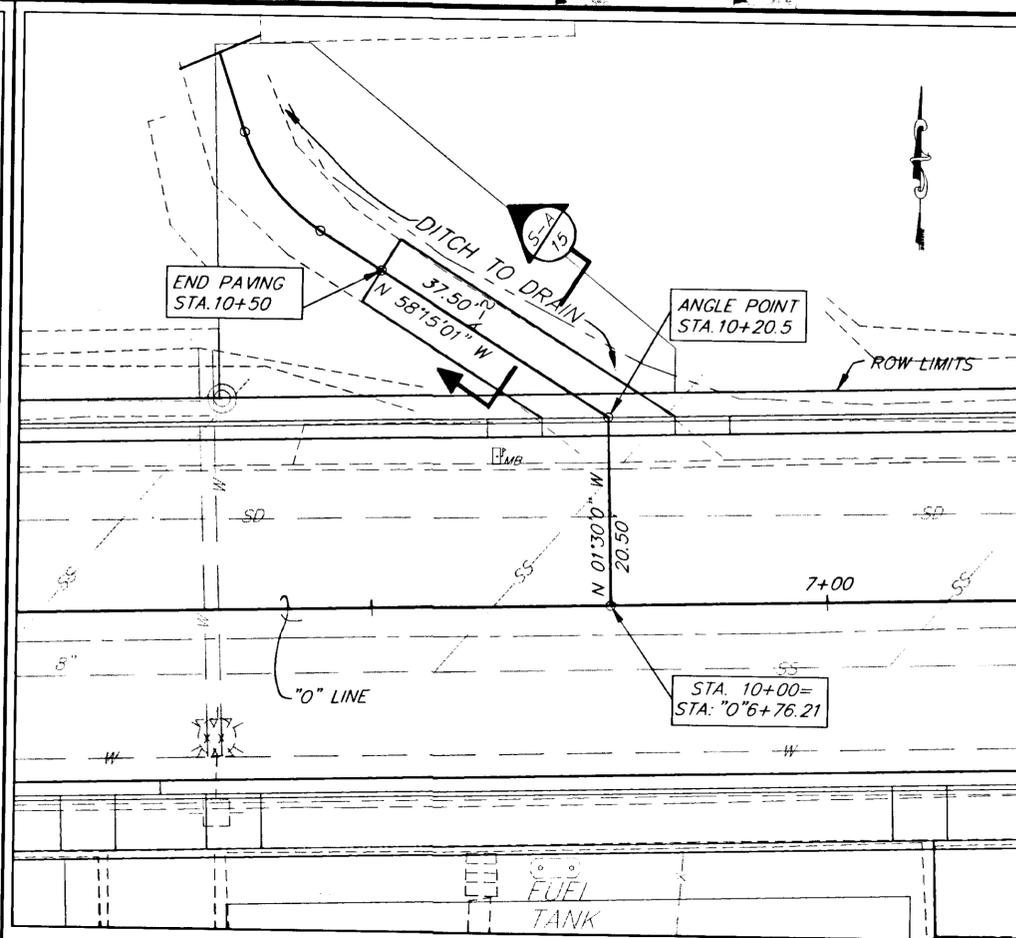
KETCHIKAN ALASKA  
 KTN—THIRD AVENUE RECONSTRUCTION  
 STP-0003(4B) ~ 72089  
**INTERSECTION & SIDEWALK DETAILS**

DESIGNED BY: M. SHEELER	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/9/98
CHECKED BY: D. SALDIVAR	SHEET 16 OF 84

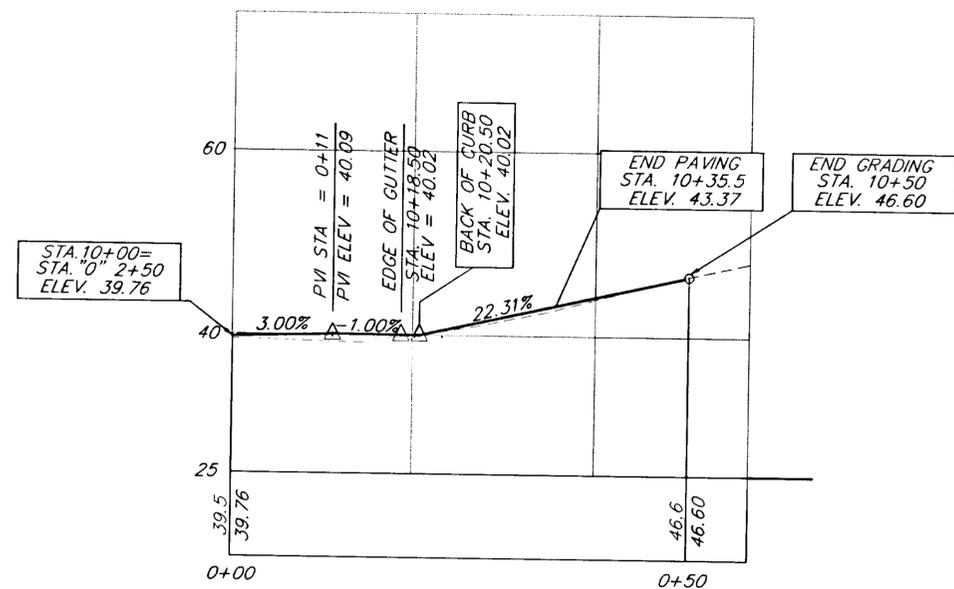




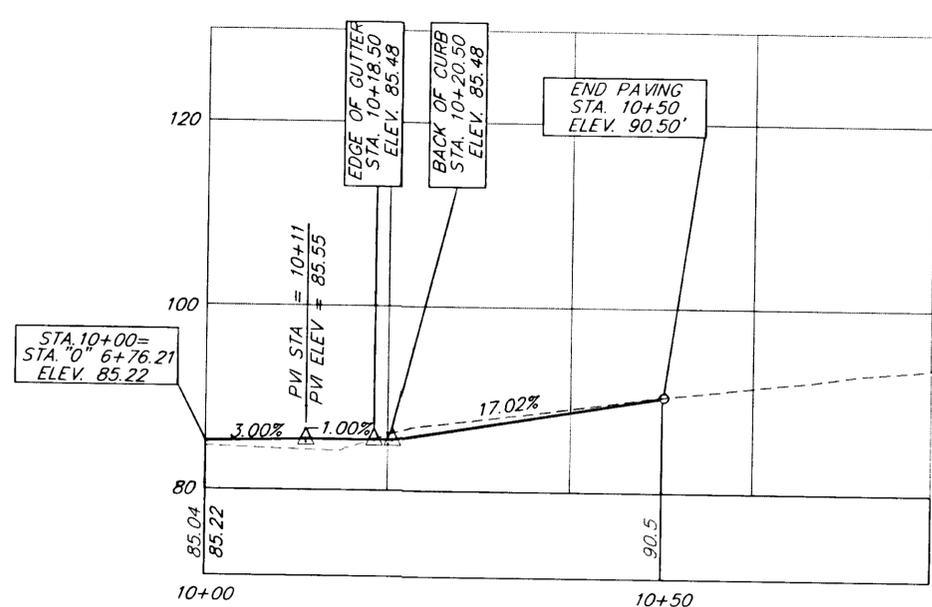
**STA "0" 2+50.36  
PLAN**



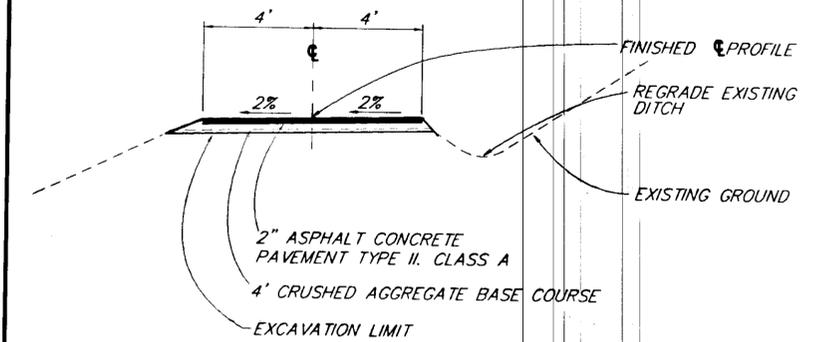
**STA "0" 6+76.21  
PLAN**



**PROFILE**



**PROFILE**



**SECTION A**

PATH: P:\KTN\72089\DR\ -DRIVE		
PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(10) OR PLOT.PCP(20)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

KETCHIKAN

KTN-THIRD AVE. RECONSTRUCTION  
STP-0003(48) ~ PROJECT NO. 72089

ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:  
D. SALDIVAR

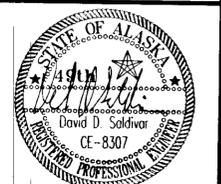
DRAWN BY:  
KK/RKS

CHECKED BY:  
D. SALDIVAR

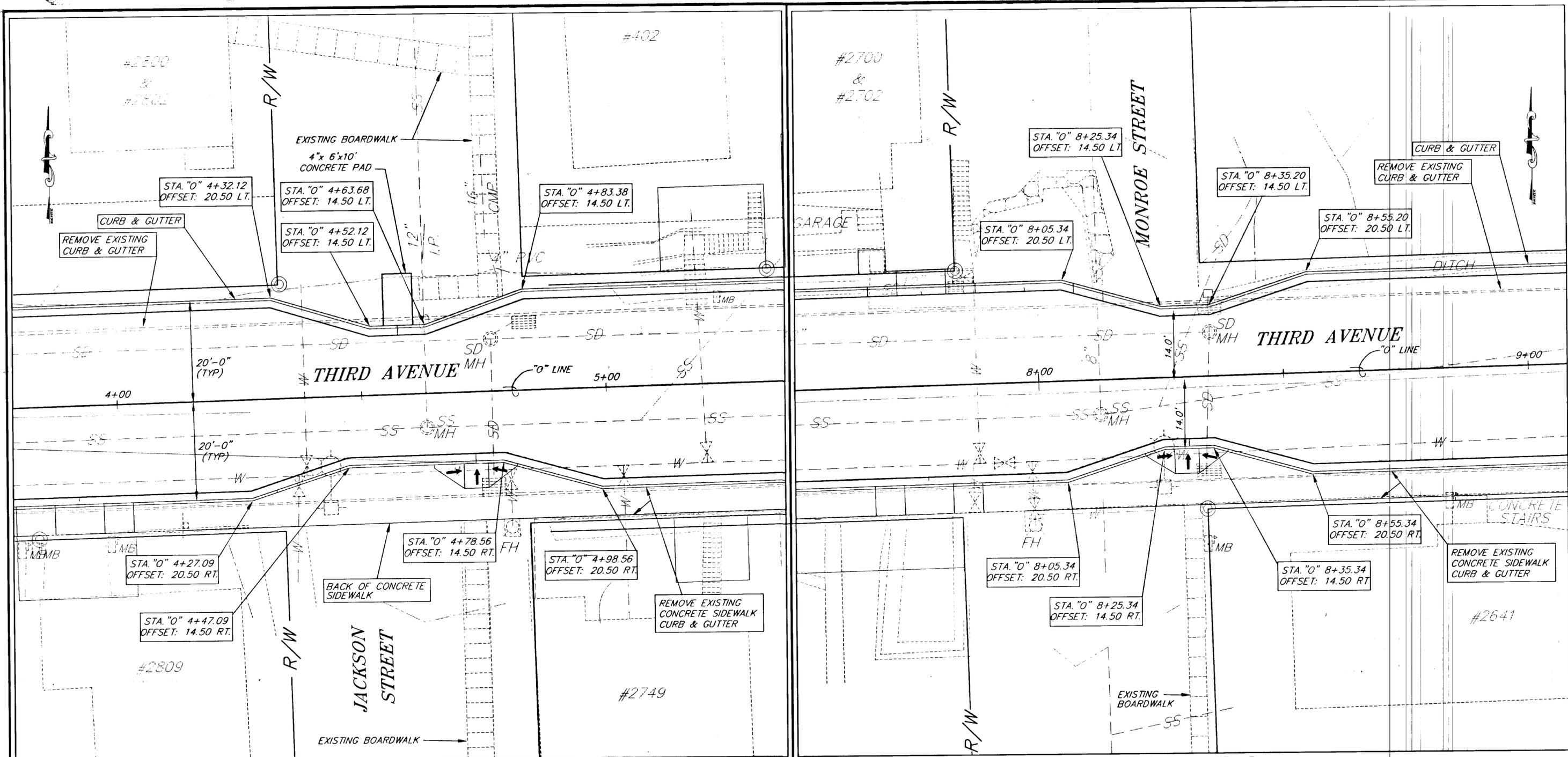
PROJECT NO.  
72089

DATE:  
4/6/98

SHEET 17 OF 84



**DRIVEWAY DETAILS**



**CURB DETAIL 1**

**CURB DETAIL 2**

**NOTE:** STATIONS AND OFFSETS ARE TO THE BACK OF CURB

**NOTE:** DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P:\KTN\72089\DR\APP2		
PLOT: P:\LIB\—PLOT\PL0TF.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

KETCHIKAN

KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089

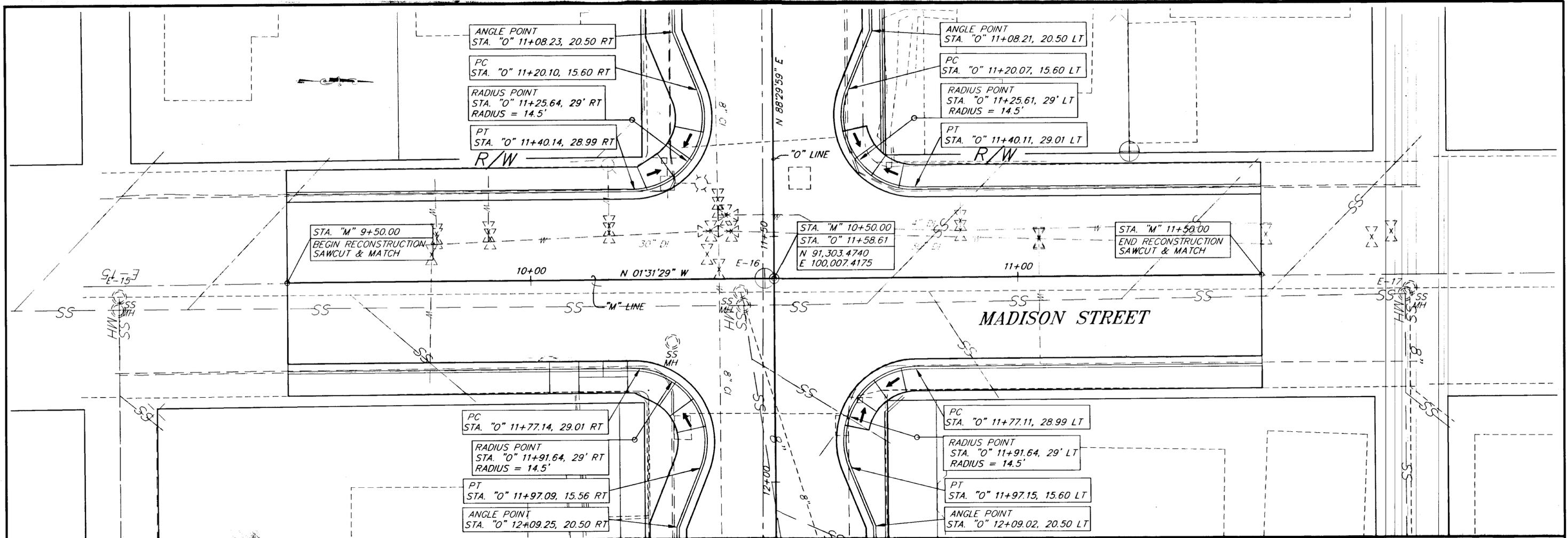
ALASKA

DESIGNED BY:  
*D. SALDIVAR*  
 DRAWN BY:  
*K. SNYDER*  
 CHECKED BY:  
*D. SALDIVAR*

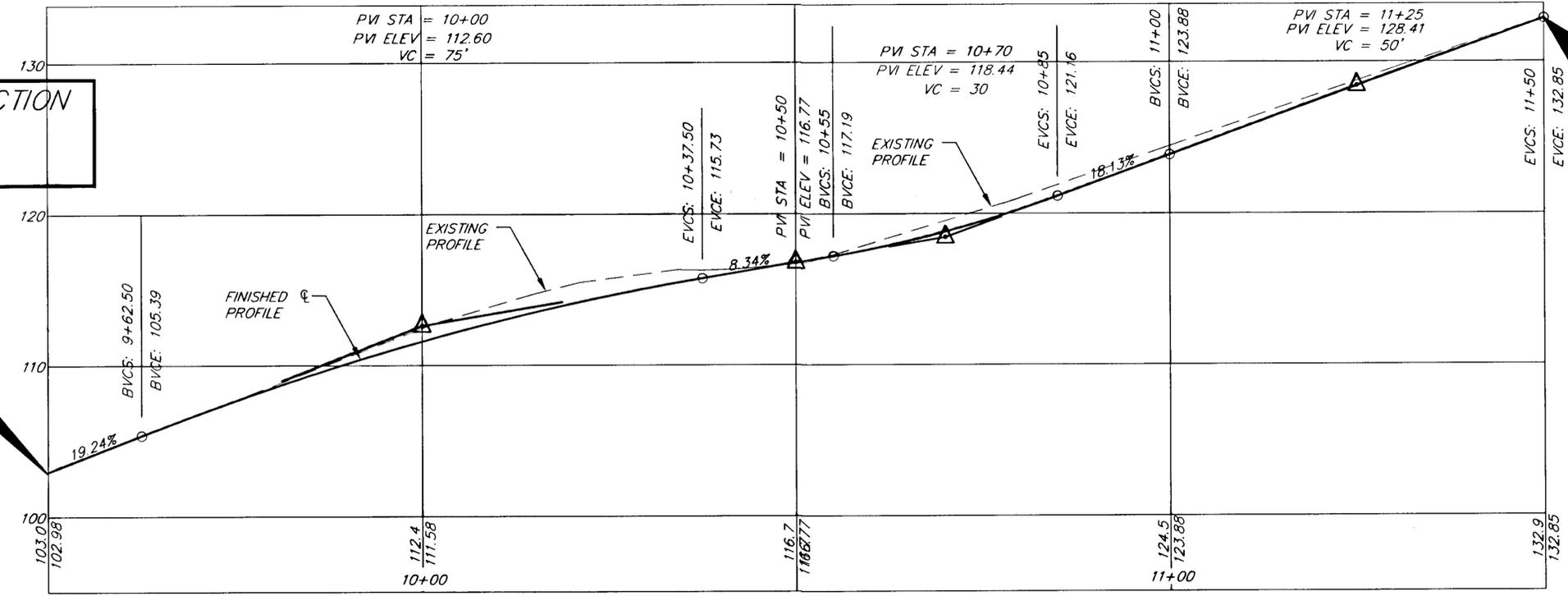
PROJECT NO.  
 72089  
 DATE:  
 4/9/88  
 SHEET 18 OF 84



**CURB DETAILS**



**BEGIN RECONSTRUCTION**  
 STA. "M" 9+50  
 ELEV. 102.98



**END RECONSTRUCTION**  
 STA. "M" 11+50  
 ELEV. 132.85

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

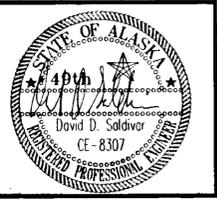
PATH: P:\KTN\72089\DR\APP1 VIEWS: APP1, PRO1, TB1	
PLOT: P:\LIB\LOT\LOT.PCF(1) OR PLOTH.PCF(2)	
BY:	DATE: DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>	

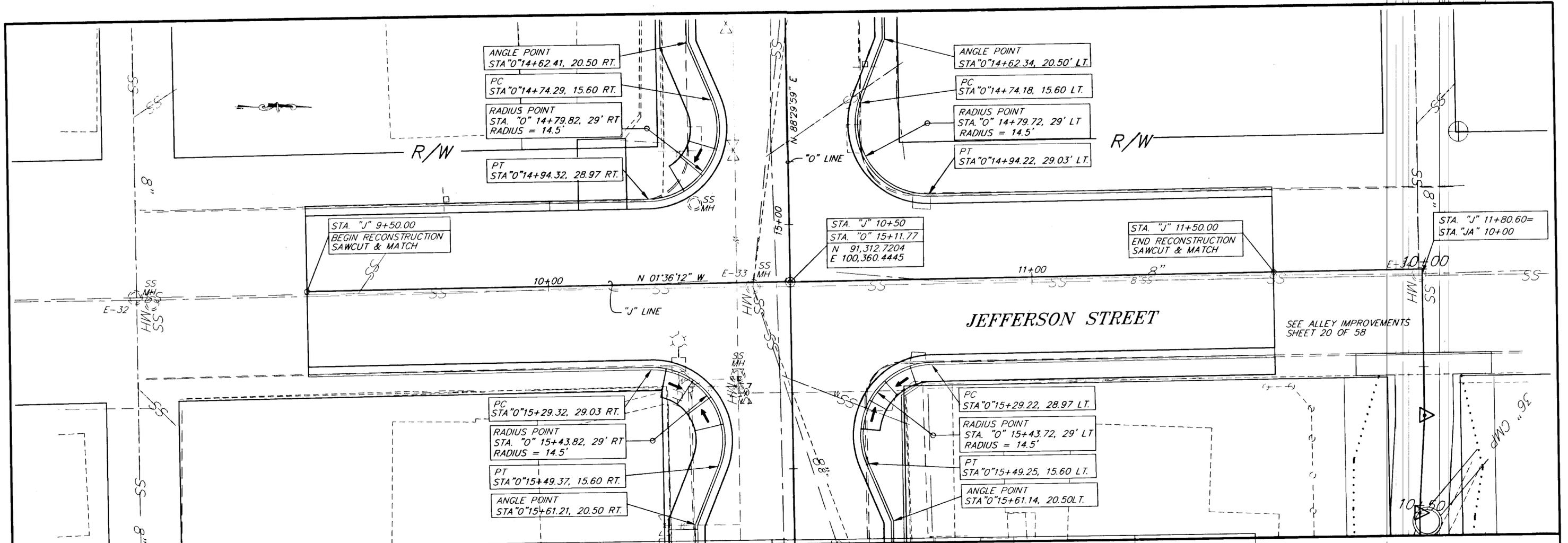
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KTN—THIRD AVENUE RECONSTRUCTION  
 STP-0003(4B) ~ 72089  
**MADISON STREET**  
**INTERSECTION DETAILS**

ALASKA  
 DESIGNED BY: D. SALDIVAR  
 DRAWN BY: K. SNYDER  
 CHECKED BY: D. SALDIVAR

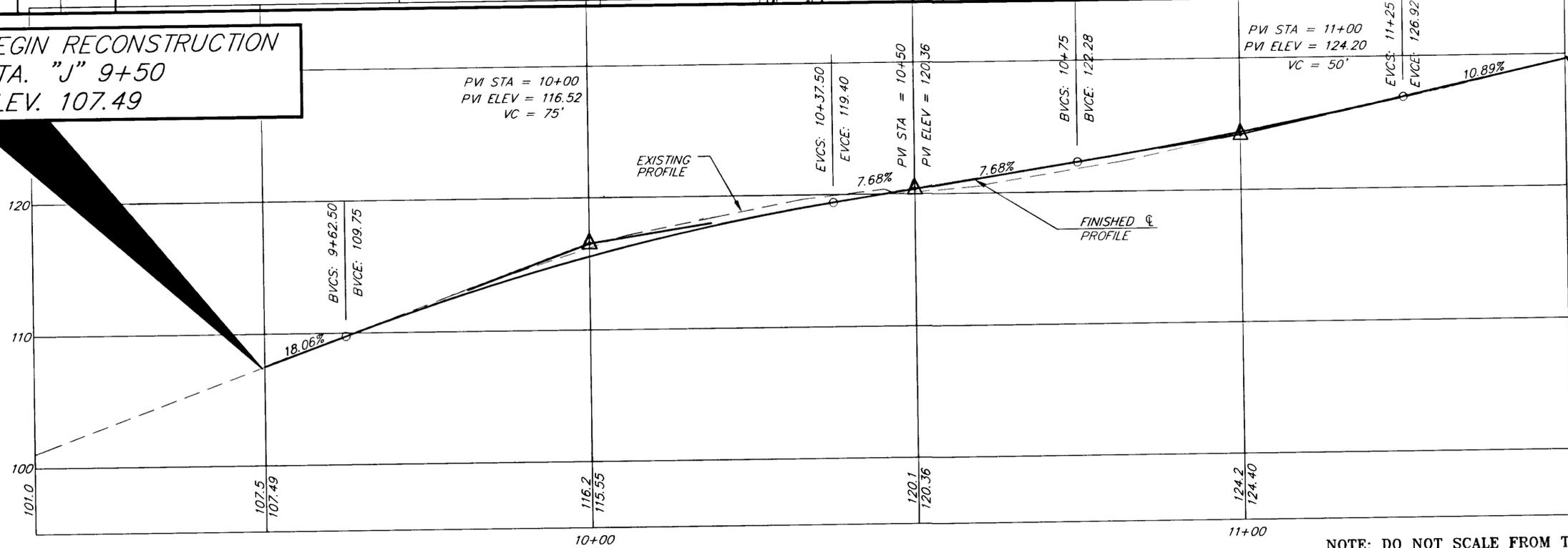
PROJECT NO. 72089  
 DATE: 4/98  
 SHEET 19 OF 84





BEGIN RECONSTRUCTION  
STA. "J" 9+50  
ELEV. 107.49

END RECONSTRUCTION  
STA. "J" 11+50  
ELEV. 129.66



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P:\KTN\72089\DR\APP1		VIEWS: APP2, PRO2, TB2	
PLOT: P:\LIB\PLOT\PLT.PCP(1) OR PLOT.PCP(2)			
BY:	DATE:	DESCRIPTION OF CHANGE:	

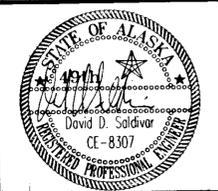
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KTN—THIRD AVENUE RECONSTRUCTION  
STP-0003(4B) ~ 72089  
**JEFFERSON STREET  
INTERSECTION DETAILS**

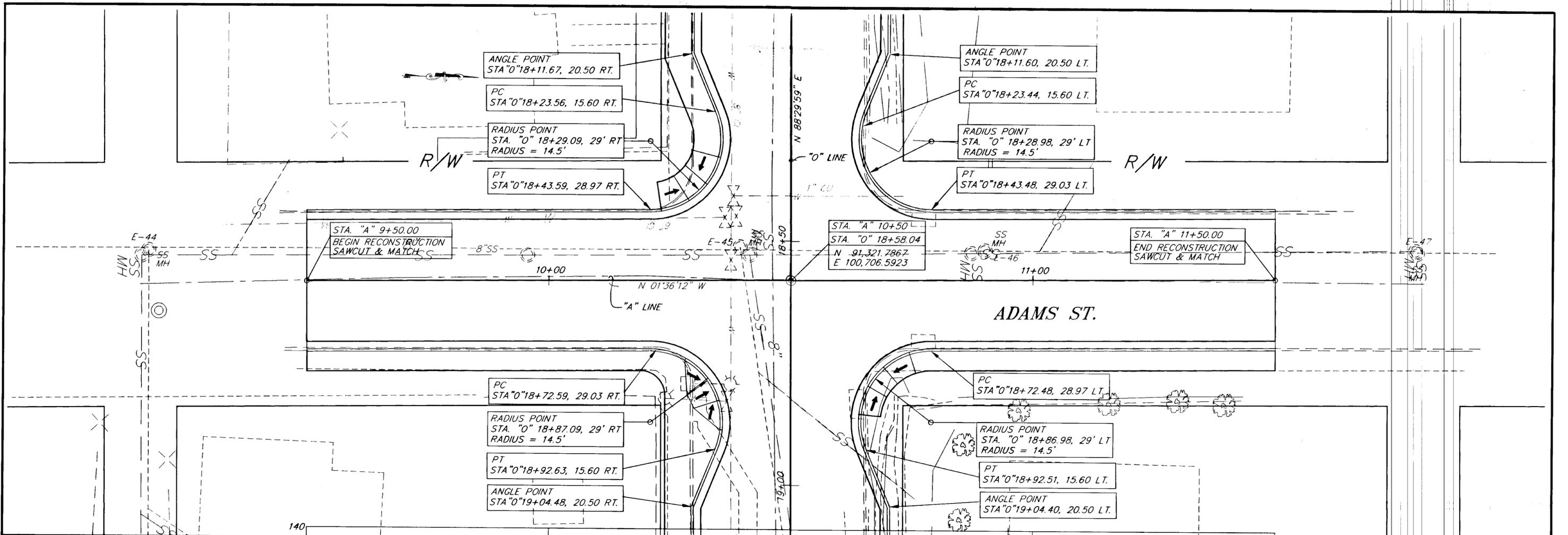
ALASKA

DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
K. SNYDER  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
72089  
DATE:  
4/19/86  
SHEET 20 OF 84

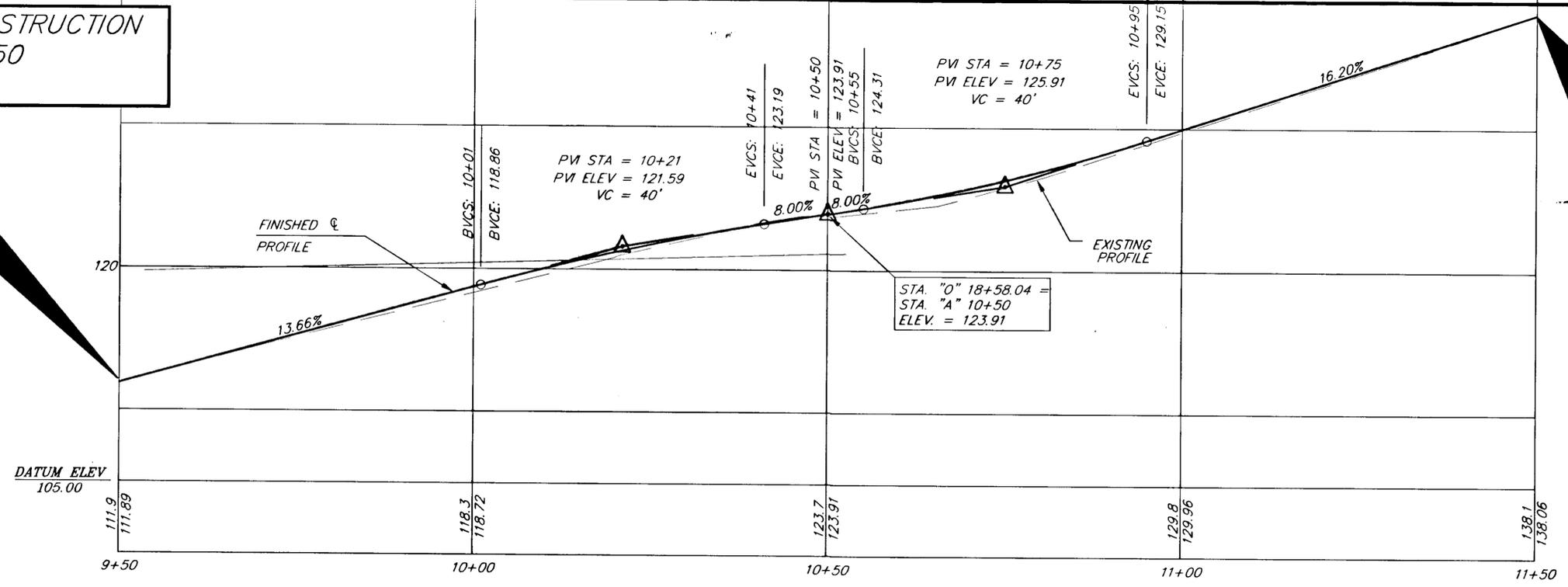


RECORD OF REVISIONS



BEGIN RECONSTRUCTION  
STA. "A" 9+50  
ELEV. 111.89

END RECONSTRUCTION  
STA. "A" 11+50  
ELEV. 138.06



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

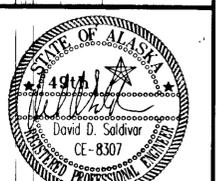
PATH: P:\KTN\72089\DR\-APP1 VIEWS: APP3, PRO3, TB3	
PLOT: P:\-LIB\-PLOT\PLT.PCP(1) OR PLOT.PCP(2)	
BY:	DESCRIPTION OF CHANGE:
DATE:	
RECORD OF REVISIONS	

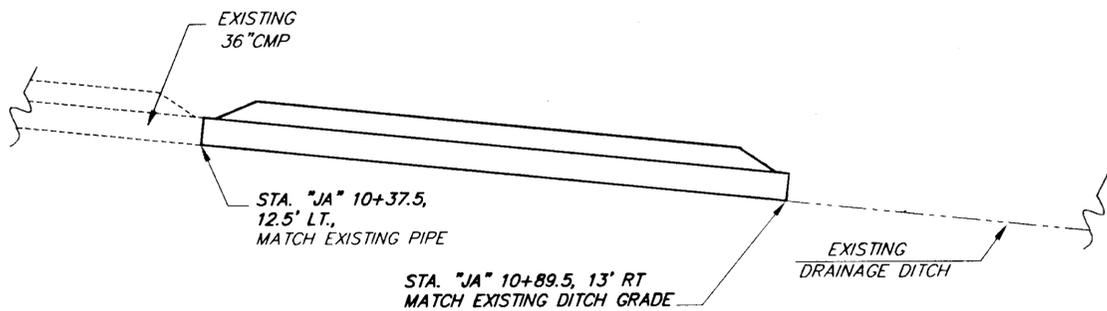
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(4B) ~ 72089  
ALASKA  
**ADAMS STREET  
INTERSECTION DETAILS**

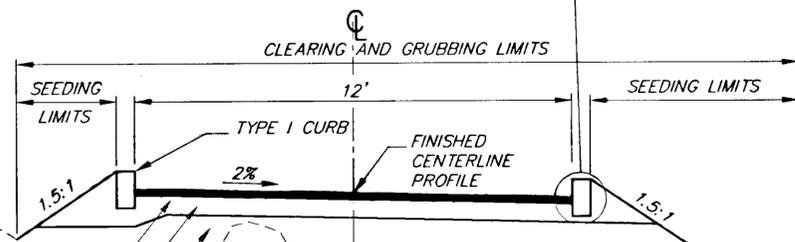
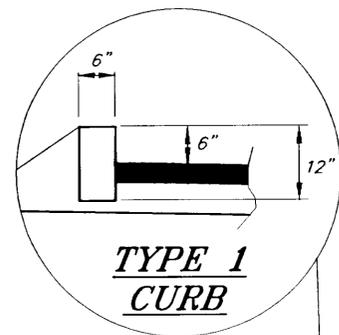
DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
K. SNYDER  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
72089  
DATE:  
4/9/98  
SHEET 21 OF 84



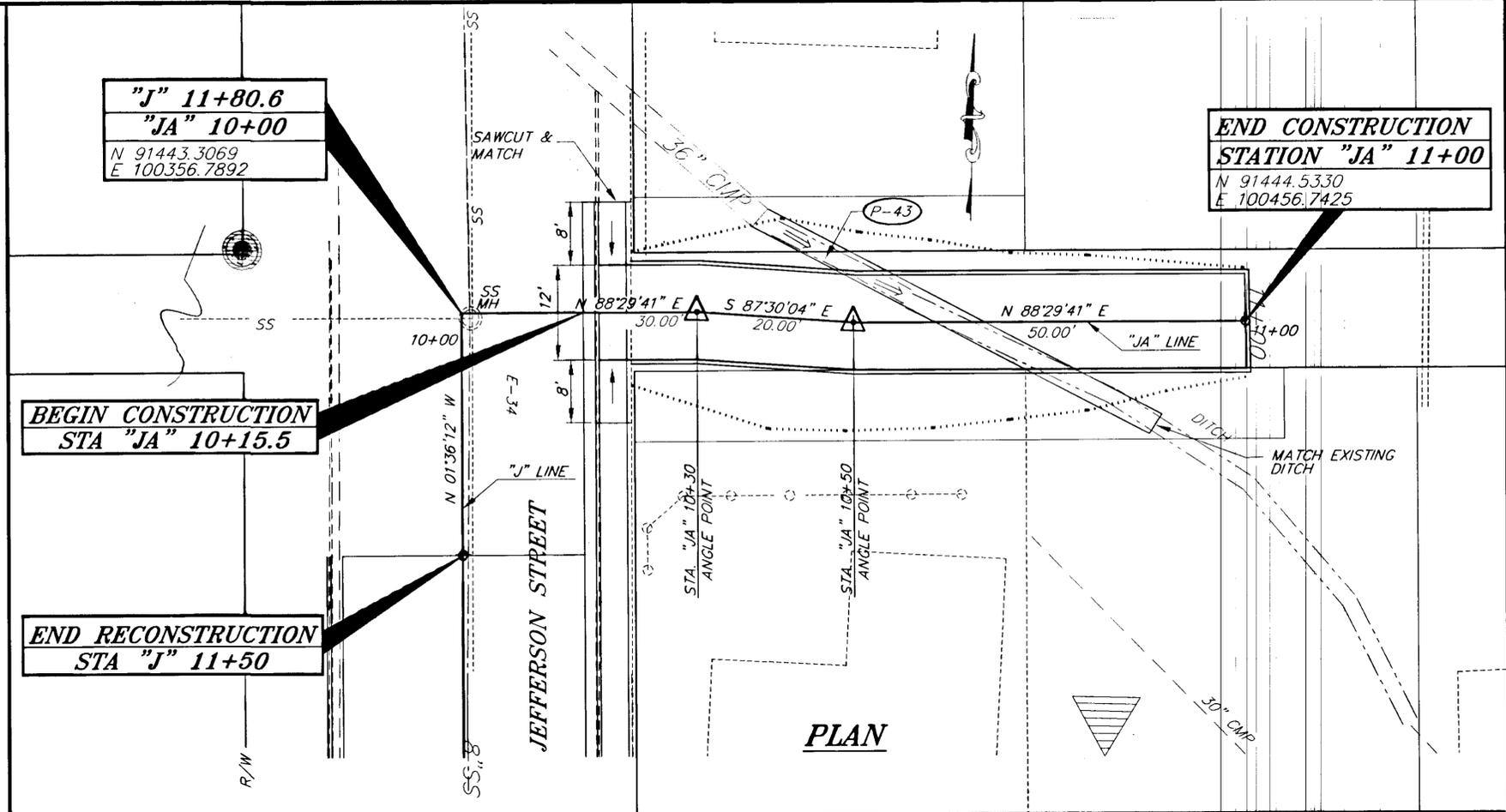


**DRAINAGE PROFILE**



- 2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
- 6" CRUSHED AGGREGATE BASE COURSE
- 12" SUBBASE GRADING "E"
- BORROW, TYPE A
- EXCAVATION LIMITS
- REMOVE EXISTING TREE STUMPS, LOGS, AND OTHER DELETERIOUS MATERIAL.
- REINFORCING GEOTEXTILE MATERIAL

**STA. "JA" 10+22 TO STA. "JA" 11+00**



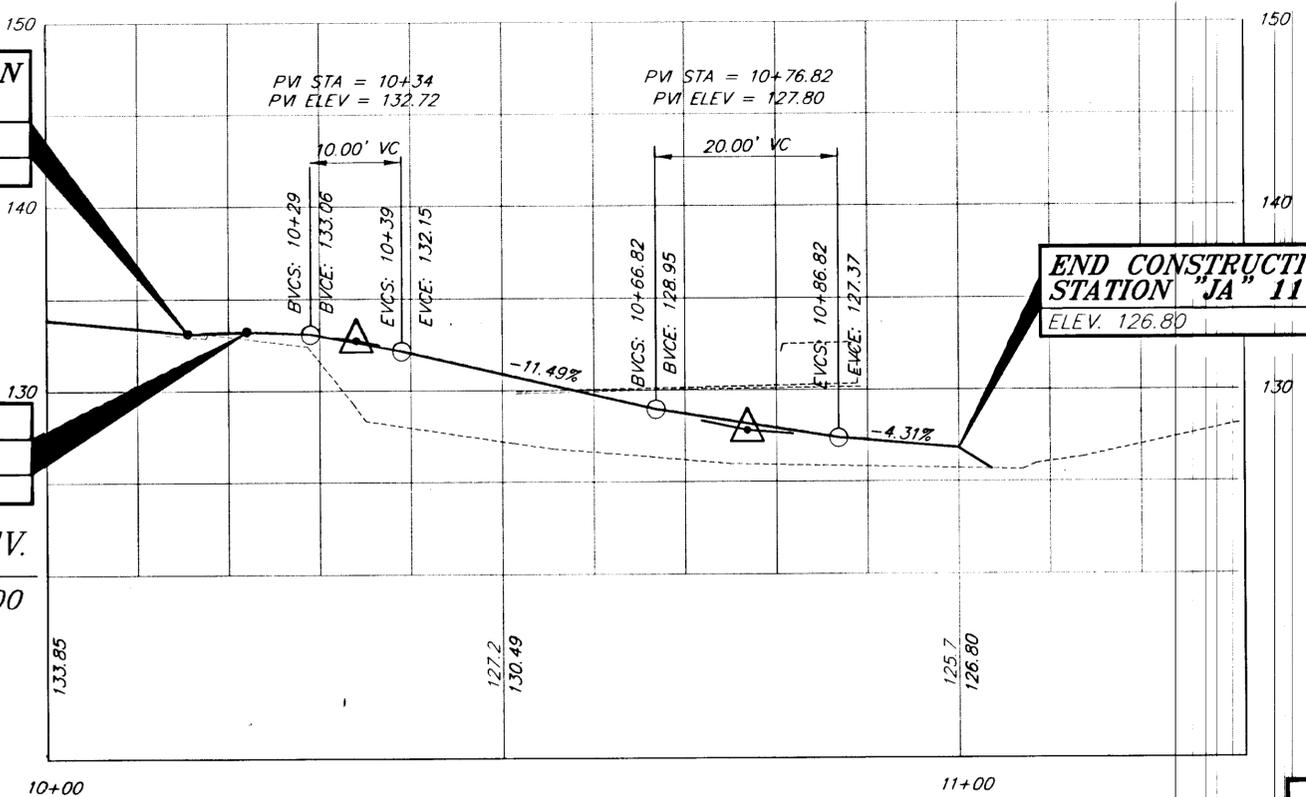
**BEGIN CONSTRUCTION  
EDGE OF GUTTER  
STA. "JA" 10+15.5  
ELEV. 133.10**

**BACK OF SIDEWALL  
STA. "JA" 10+22  
ELEV. 133.20**

**END CONSTRUCTION  
STATION "JA" 11+00  
ELEV. 126.80**

**DATUM ELEV.**

120.00



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
PATH:	P: \KTN\72089\DR\ -PROF	
PLOT:	P: \-LIB\ -PLOT\PLOT.F.PCP(10) OR PLOT.H.PCP(20)	
BY:	DATE:	DESCRIPTION OF CHANGE:

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

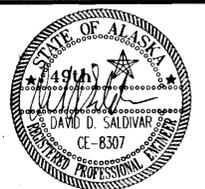
KETCHIKAN

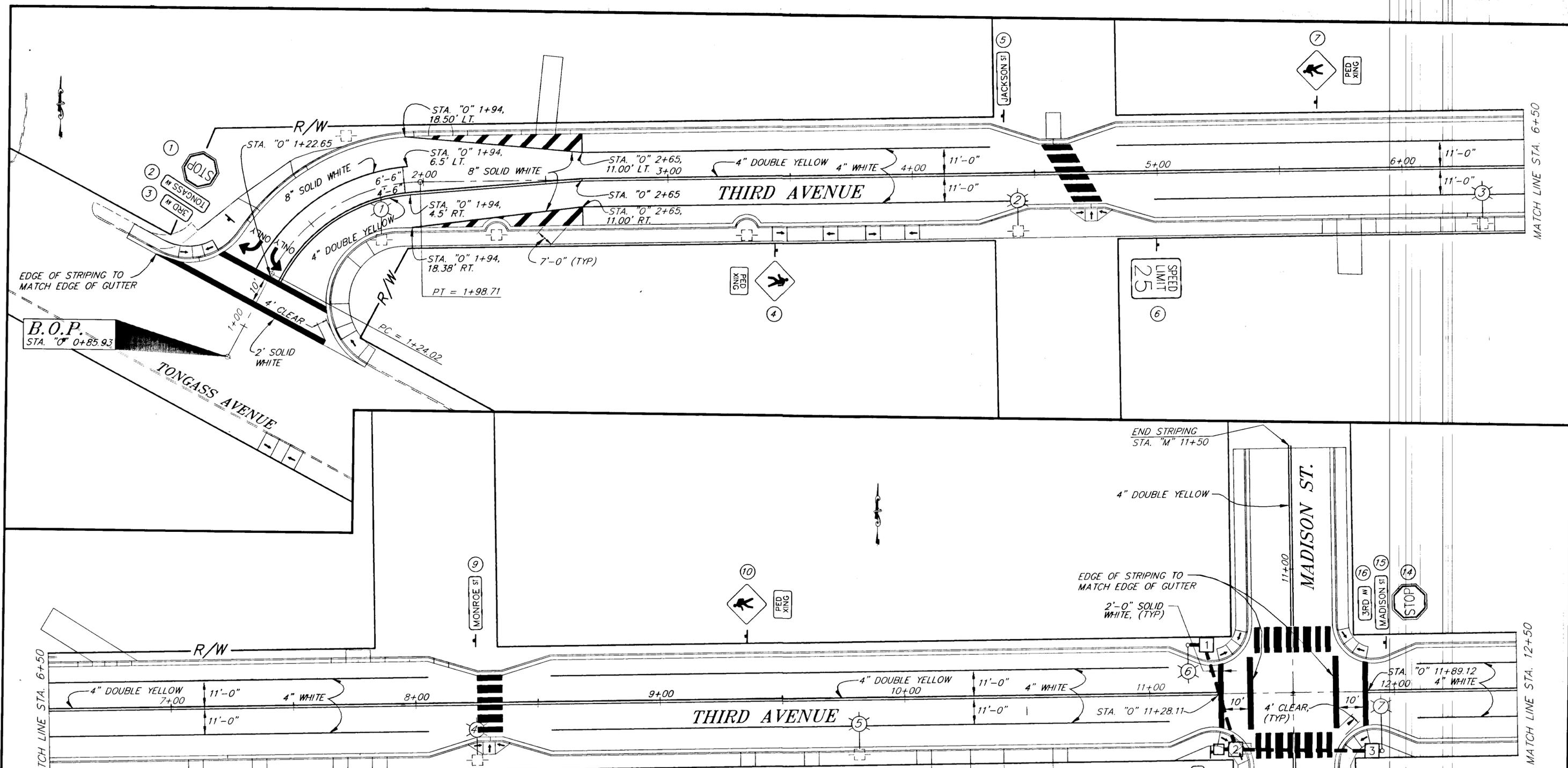
KTN-THIRD AVE. RECONSTRUCTION  
ALASKA  
STP-0003(48) ~ PROJECT NO 72089

**PLAN AND PROFILE**

DESIGNED BY:  
**D. BLACKBURN**  
DRAWN BY:  
**K. KLEMMETSON**  
CHECKED BY:  
**D. SALDIVAR**

PROJECT NO.  
72089  
DATE:  
2/9/98  
SHEET 22 OF 84





**ILLUMINATION NOTES**

1. ALL LUMINAIRES WILL BE 240 VOLT, 250WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUTOFF, TYPE III.
2. ILLUMINATION CIRCUIT WIRE SHALL BE NO.8 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660-2.08.
3. LUMINAIRES 6,7,9,12, WILL BE NEW ELECTROLIERS WITH A MOUNTING HEIGHT OF 34' ALL OTHER LUMINAIRES WILL BE MOUNTED TO EXISTING UTILITY POLES.
4. THE REMOVAL OF EXISTING LUMINAIRES WILL BE INCIDENTAL TO THE COST OF REINSTALLING NEW LUMINAIRES.
5. ALL EXISTING LUMINAIRES WILL BE THE PROPERTY OF KETCHIKAN PUBLIC UTILITIES AND WILL BE RETURNED TO THEIR MAINTENANCE YARD.
6. THE CONTRACTOR WILL CONTACT KETCHIKAN PUBLIC UTILITIES AND POWER CONNECTIONS TO THE LUMINAIRES WILL BE MADE AS PER THEIR INSTRUCTIONS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\22089\DR\STRIP2	
PLOT: P:\LIB\LOT\LOT.PCP(20) OR LOT.PCP(40)	
BY:	DESCRIPTION OF CHANGE:
DATE:	
RECORD OF REVISIONS	

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

KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(4B) ~ 72089  
ALASKA  
**PAVEMENT STRIPING DETAILS**

DESIGNED BY:  
*M. SHEELER*

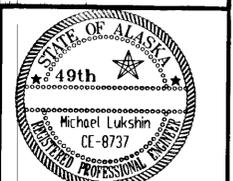
DRAWN BY:  
*K. SNYDER*

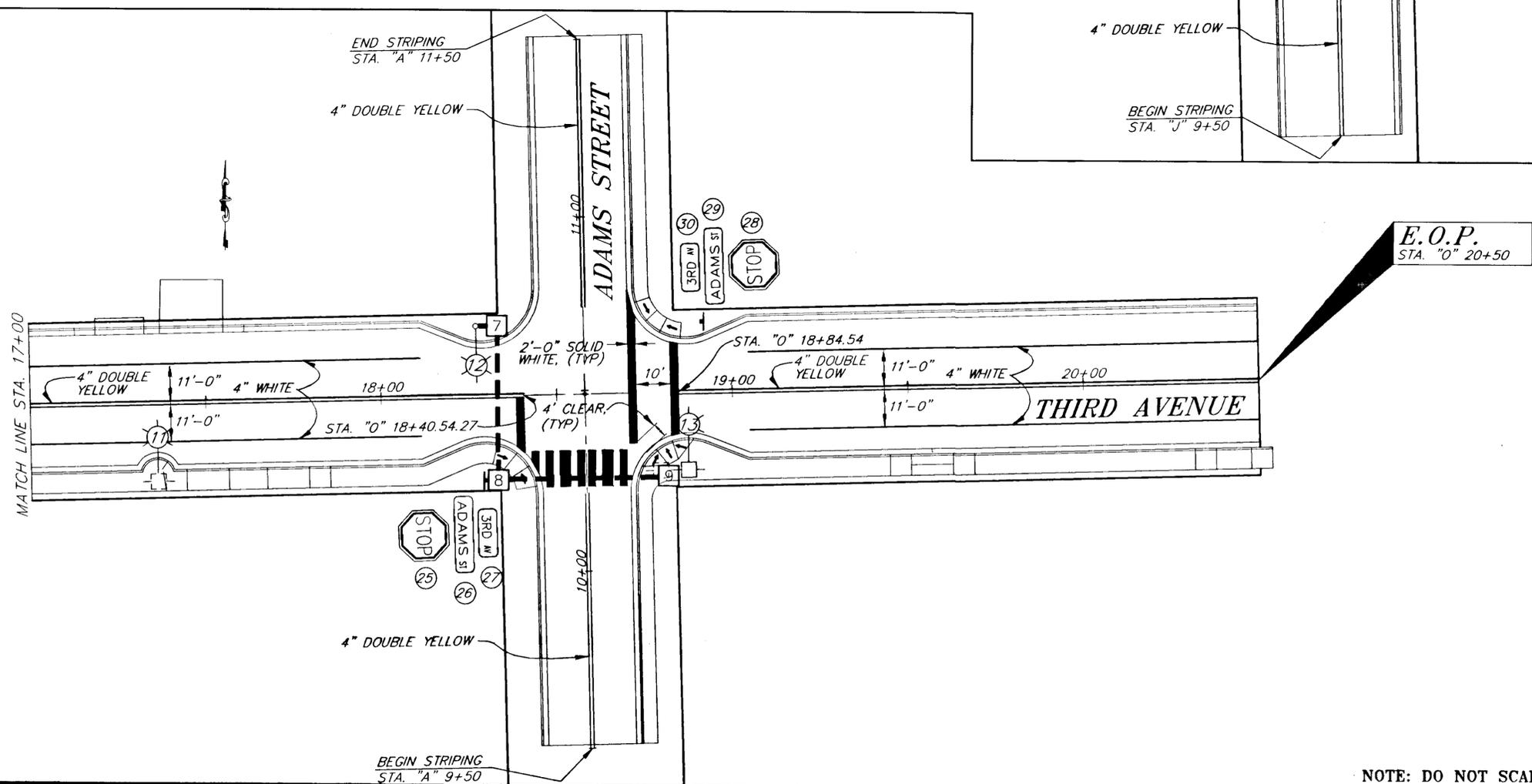
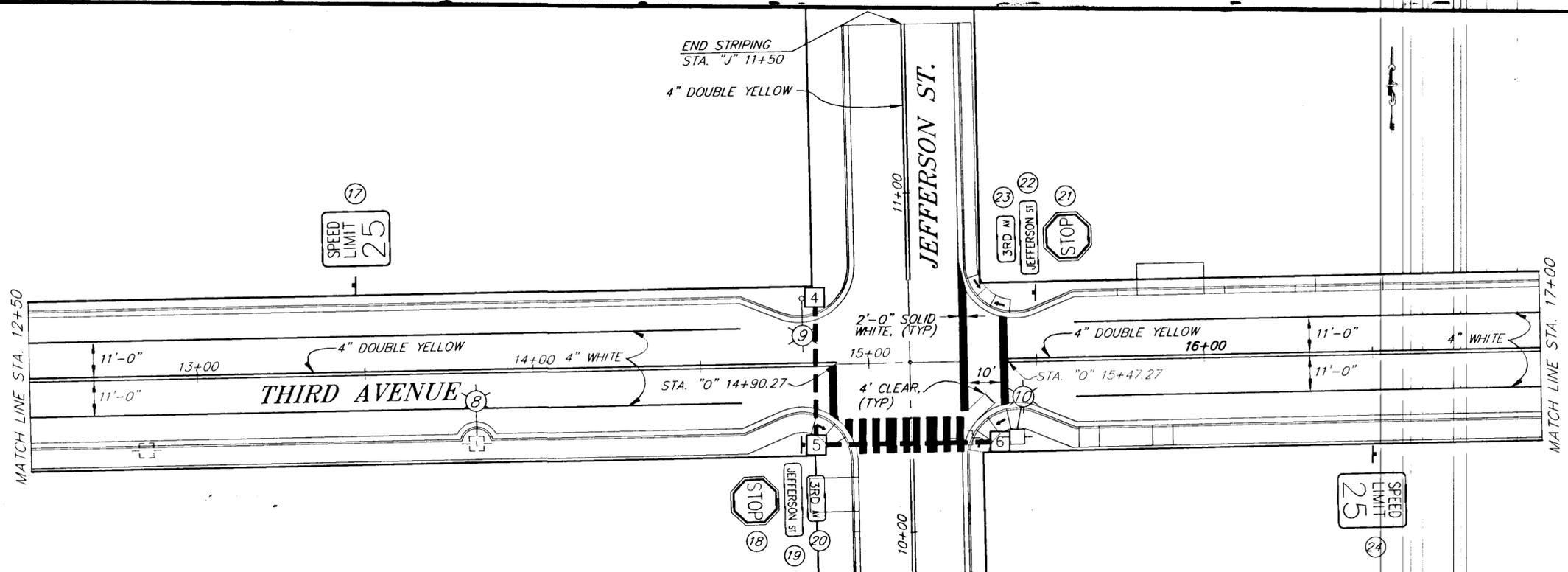
CHECKED BY:  
*K. SMITH*

PROJECT NO.  
72089

DATE:  
JAN. 1998

SHEET 23 OF 84





NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

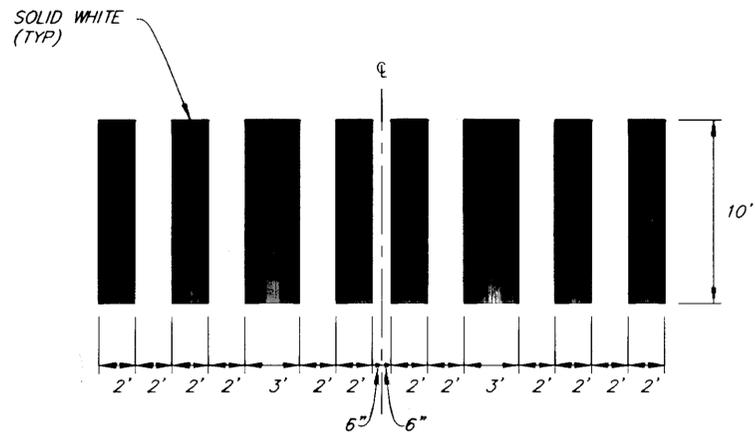
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PLOT:	P: \-LIB\—PLOT\PLOT.PCP(20) OR PLOT.PCP(40)	
BY:	DATE:	DESCRIPTION OF CHANGE:

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

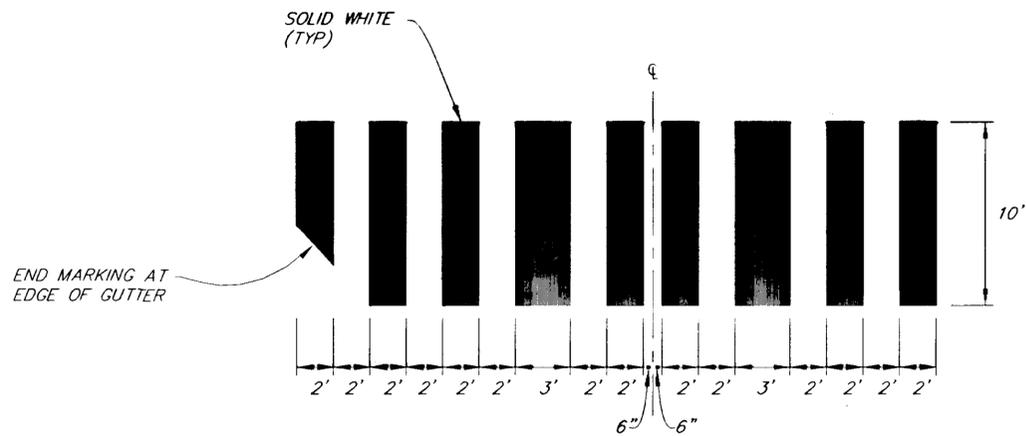
KETCHIKAN  
 KTN—THIRD AVENUE RECONSTRUCTION  
 STP-0003(4B) ~ 72089  
 ALASKA  
**PAVEMENT STRIPING DETAILS**

DESIGNED BY:	M. SHEELER	PROJECT NO.	72089
DRAWN BY:	K. SNYDER	DATE:	
CHECKED BY:	K. SMITH	SHEET 24 OF 84	

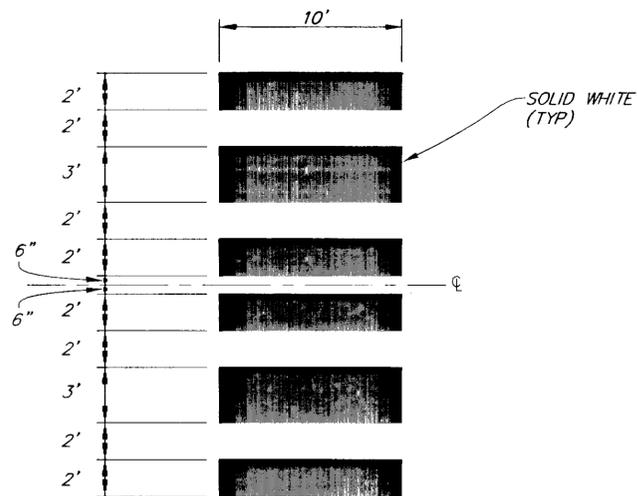




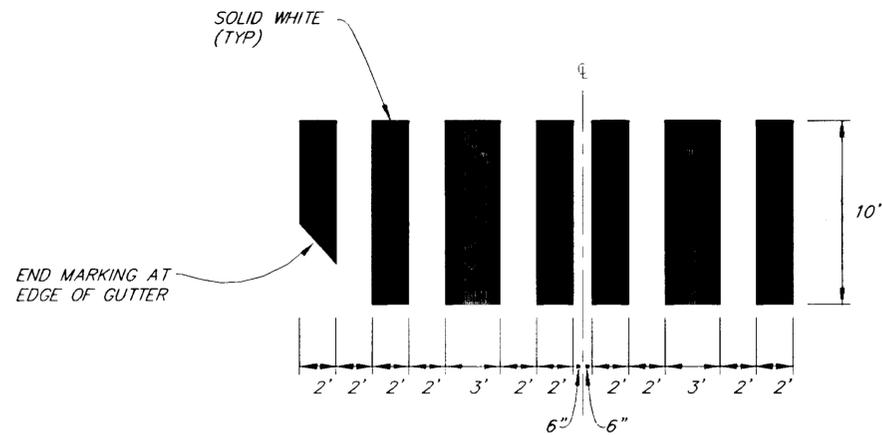
**CROSSWALK MARKING  
NORTH & SOUTH MADISON STREET**



**CROSSWALK MARKING  
SOUTH JEFFERSON STREET**



**CROSSWALK MARKING  
JACKSON STREET & MONROE STREET**



**CROSSWALK MARKING  
SOUTH ADAMS STREET**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P:\KTN\72089\DR\—STRIPE4		
PLOT: P:\-LIB\—PLOT\LOT.F.PCP(5) OR PLOT.H.PCP(10)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

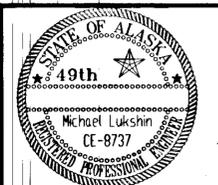
KETCHIKAN

KTN—THIRD AVENUE RECONSTRUCTION  
STP—0003(4B) ~ 72089

ALASKA

**PAVEMENT STRIPING DETAILS**

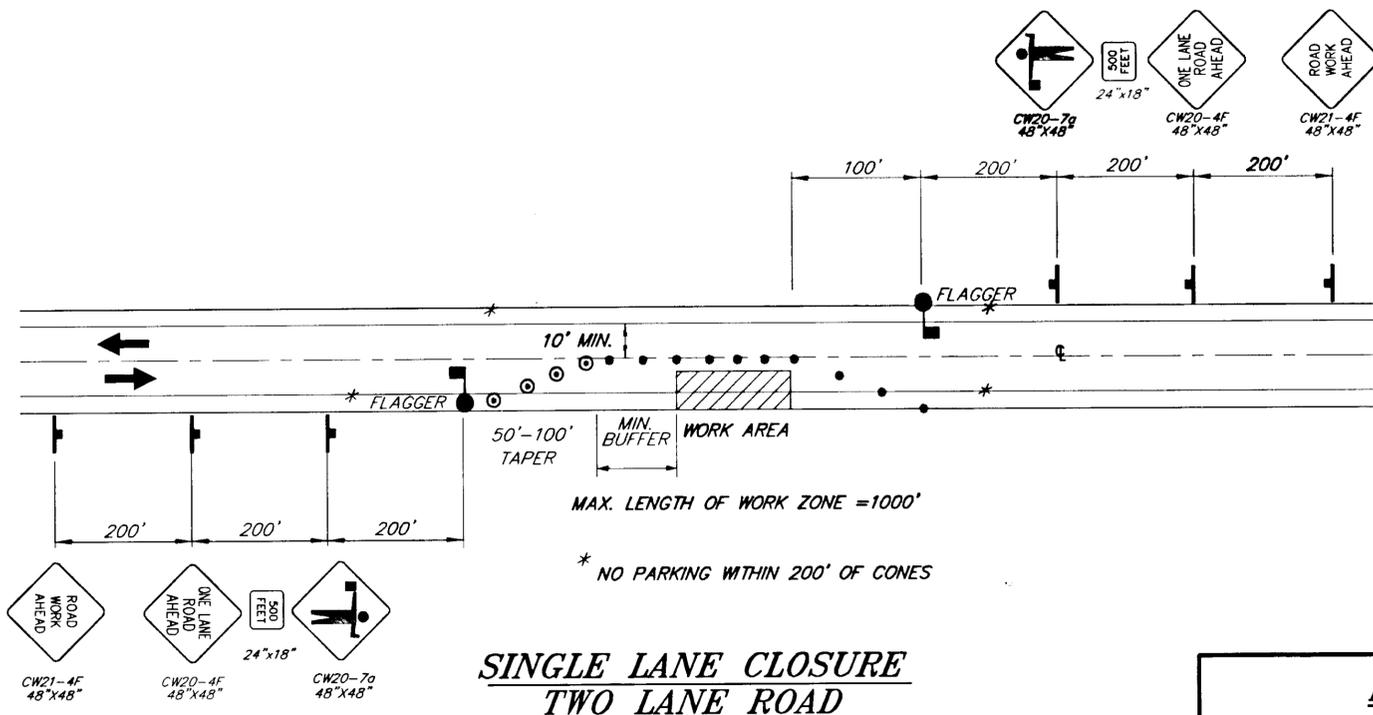
DESIGNED BY: M. SHEELER	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE:
CHECKED BY: K. SMITH	SHEET 25 OF 84



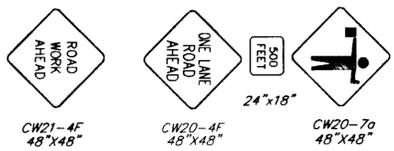
## TRAFFIC CONTROL NOTES

1. THE ROADWAY MAY BE CLOSED TO TRAFFIC FOR TWO CONTINUOUS BLOCKS DURING UNDERGROUND WORK. TWO WAY TRAFFIC WILL BE MAINTAINED DURING OTHER OPERATIONS.
2. WHEN CONDUCTING UNDERGROUND WORK THE TRENCH WILL BE BACKFILLED AS SOON AS PRACTICAL AND ONLY THE WORKING END WILL BE LEFT OPEN AT THE END OF EACH WORKING DAY.
3. DRIVEWAYS AND CROSS STREET INTERSECTIONS SHALL BE LEFT OPEN TO TRAFFIC AT THE END OF EACH WORKING DAY.
4. IF A HOME IS TO BE TEMPORARILY CUTOFF FROM ACCESS OR FROM UTILITIES, NOTICE WILL BE GIVEN 24 HOURS IN ADVANCE.
5. PEDESTRIAN ACCESS WILL BE MAINTAINED TO ALL HOMES AND BUSINESSES. THIS MAY REQUIRE THE CONSTRUCTION OF TEMPORARY FACILITIES.
6. TEMPORARY PEDESTRIAN FACILITIES WILL CONSIST OF A D-1 WALKWAY OR A BOARDWALK.
7. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
8. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
9. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE LENGTH OF THE WORK AREA IS LESS THAN 100 FEET AND IS VISIBLE TO TRAFFIC APPROACHING FROM BOTH DIRECTIONS.
10. IT IS THE INTENT OF THE 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.
11. PROVISIONS SHALL BE MADE FOR PARKING WITHIN 500' OF ANY CLOSED AREA DUE TO A DETOUR.

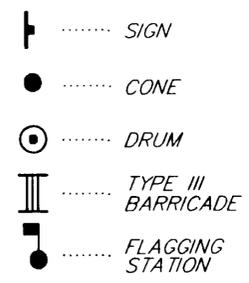
12. WHEN SIGNS ARE TO BE LOCATED ON THE DOWNHILL SIDE OF THE STREET, IN AREAS THAT HAVE RETAINING WALLS, AT THE BACK OF SIDEWALK, THE SIGNS SHALL BE MOUNTED ON THE SIDE OF THE RETAINING WALL.
13. IF A DETOUR IS IN PLACE THE ROAD WILL BE OPEN TO LOCAL TRAFFIC AT LEAST FROM 6:00 P.M. TO 7:00 A.M. EVERYDAY.



### SINGLE LANE CLOSURE TWO LANE ROAD



### LEGEND



#### FORMULAS FOR L (TAPER LENGTH)

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

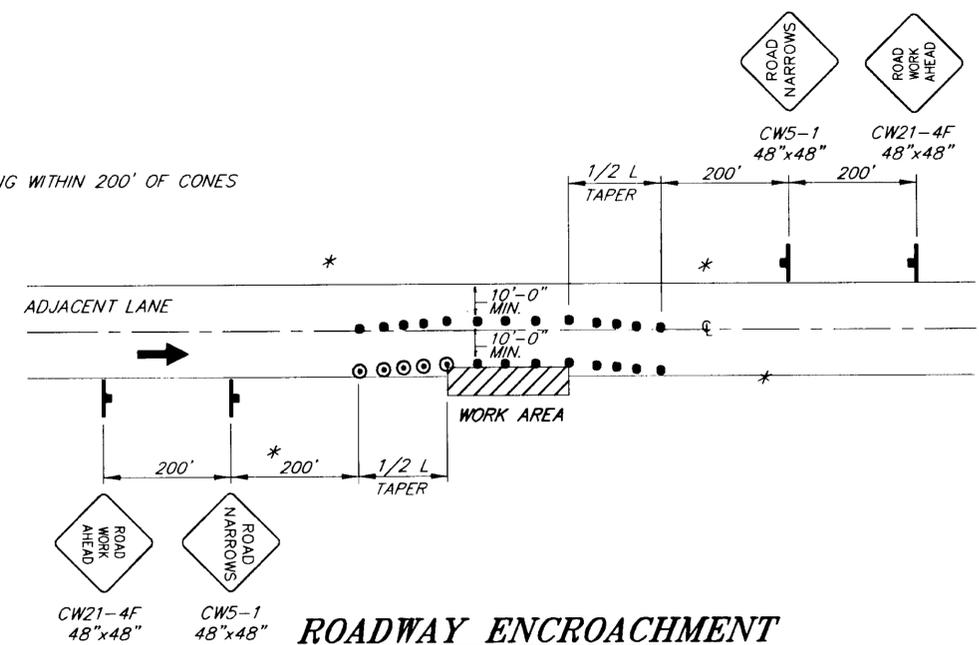
45 MPH OR GREATER  $L = W \times S$

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

DRUM OR CONE SPACING = S ( IN FEET )

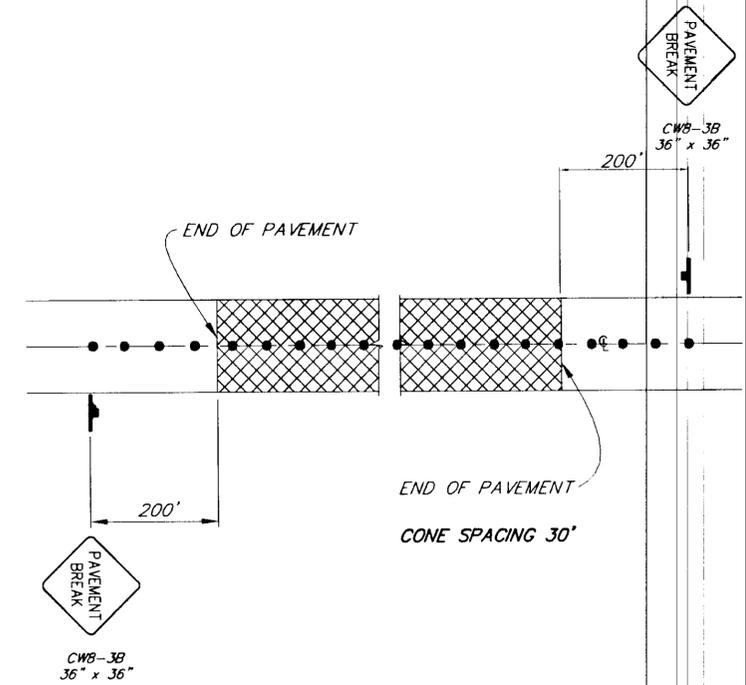
MIN. BUFFER S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

\* NO PARKING WITHIN 200' OF CONES



### 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 SIGNS AND CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



### SIGNING FOR UNPAVED AREA

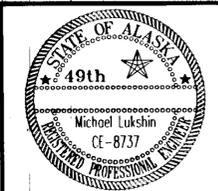
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

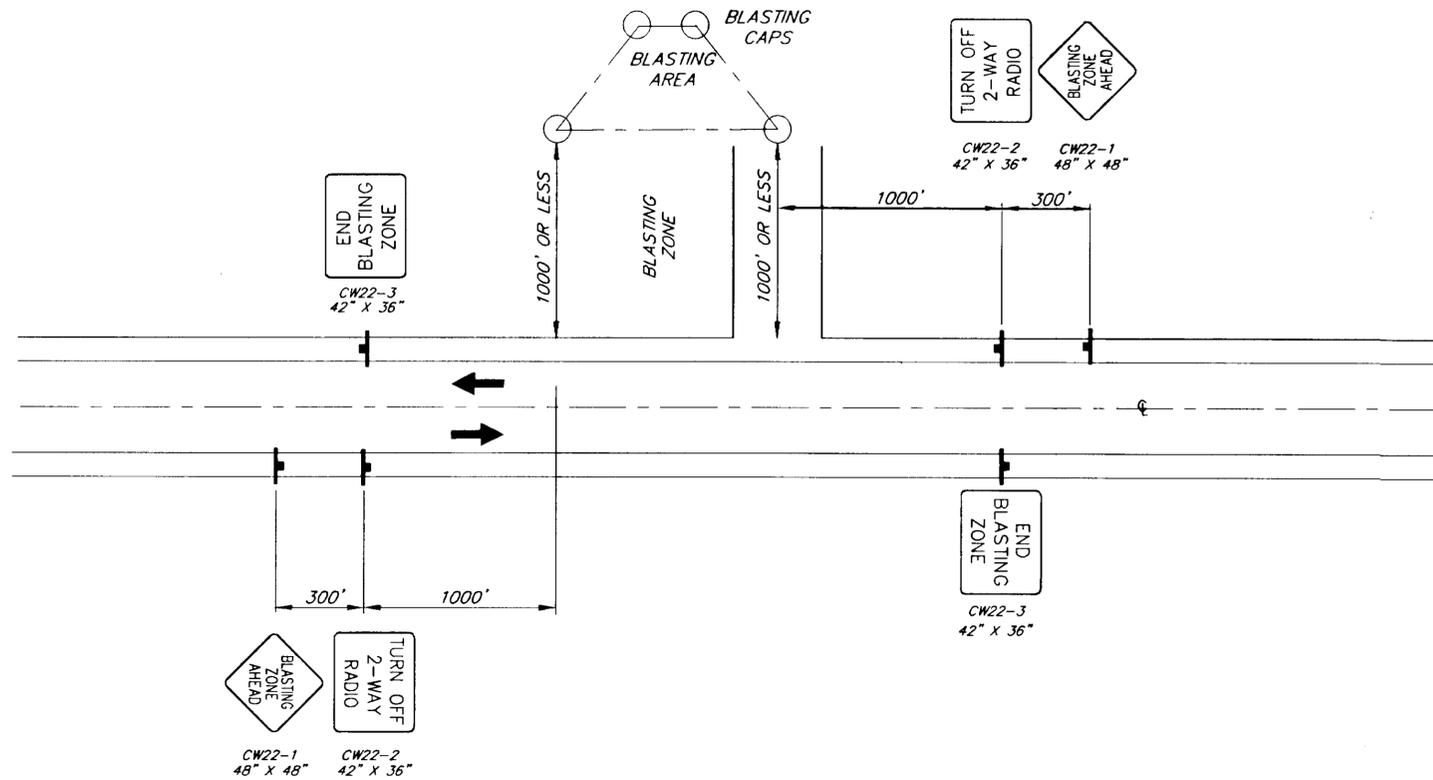
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PLOT: P: \-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

KETCHIKAN      KTN-THIRD AVENUE RECONSTRUCTION  
ALASKA      STP-0003(4B) ~ 72089  
**ROADWAY TRAFFIC CONTROL PLAN**

DESIGNED BY: R. PURVES	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE:
CHECKED BY: K. SMITH	SHEET 26 OF 84





**BLASTING ZONE PLAN**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

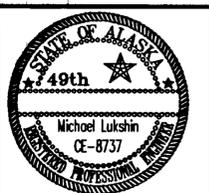
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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

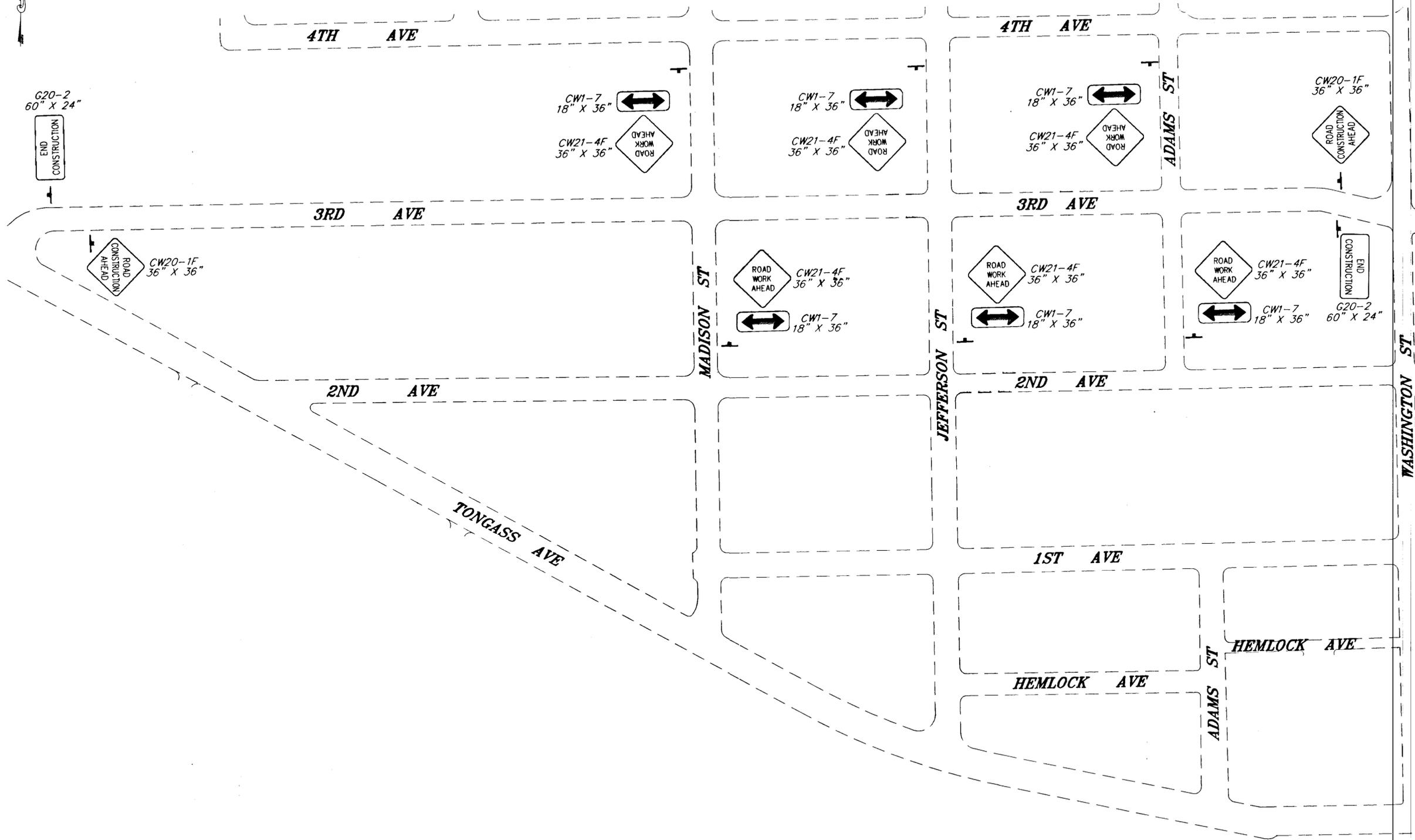
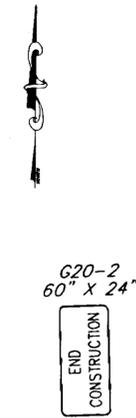
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KTN—THIRD AVENUE RECONSTRUCTION ALASKA  
 STP—0003(4B) ~ 72089

**BLASTING ZONE PLAN**

DESIGNED BY: R. PURVES	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE:
CHECKED BY: K. SMITH	SHEET 27 OF 84





RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

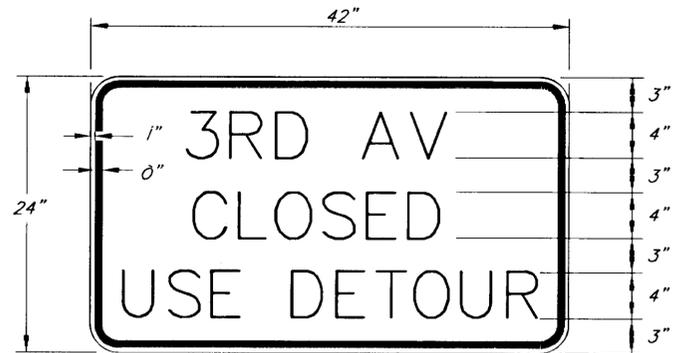
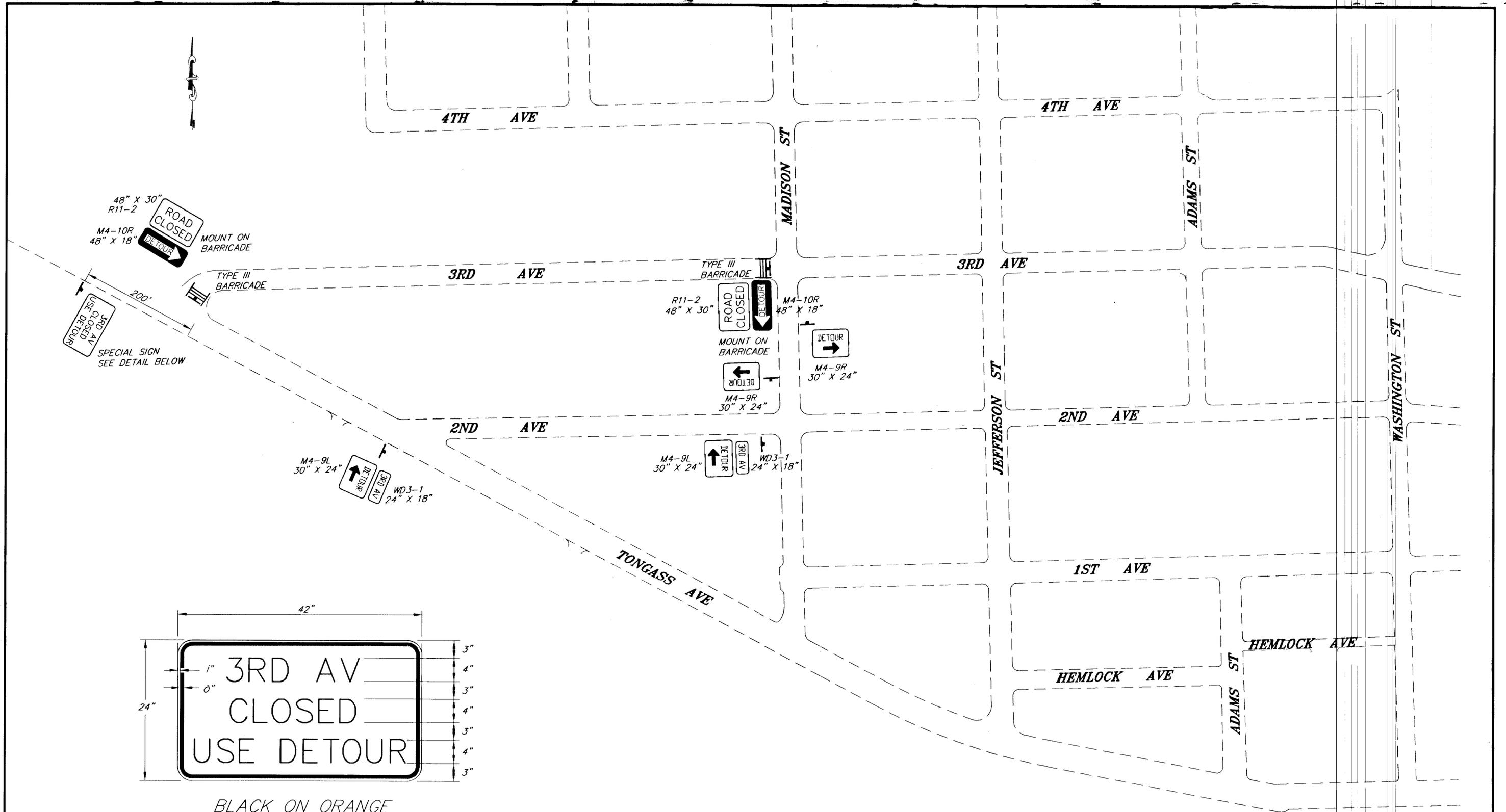
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION ALASKA  
 STP-0003(4B) ~ 72089  
**PERMANENT CONSTRUCTION SIGNING**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: R. PURVIS	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE:
CHECKED BY: K. SMITH	SHEET 28 OF 84





BLACK ON ORANGE  
4" TYPE C LETTERS  
**SPECIAL SIGN DETAIL**

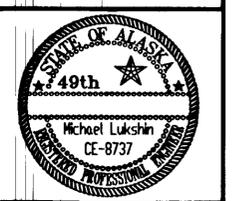
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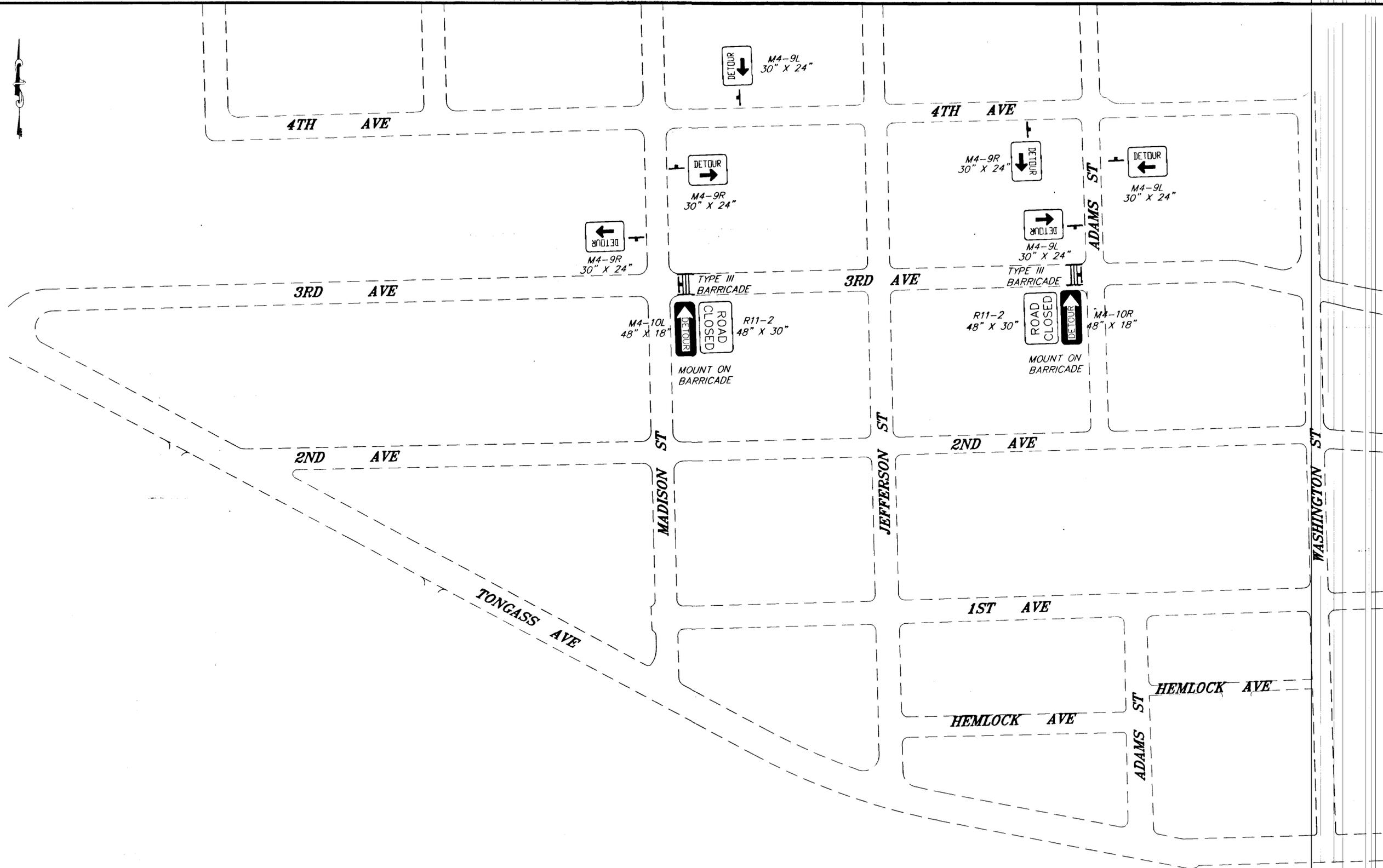
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BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

KETCHIKAN KTN—THIRD AVENUE RECONSTRUCTION ALASKA  
STP-0003(4B) ~ 72089  
**TONGASS AVENUE DETOUR**

DESIGNED BY: R. PURVIS	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE:
CHECKED BY: K. SMITH	SHEET 29 OF 84





**TYPICAL 3RD AVENUE DETOUR FOR ALL BLOCKS THAT DO NOT JUNCTION WITH TONGASS AVENUE**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

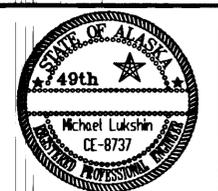
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RECORD OF REVISIONS		

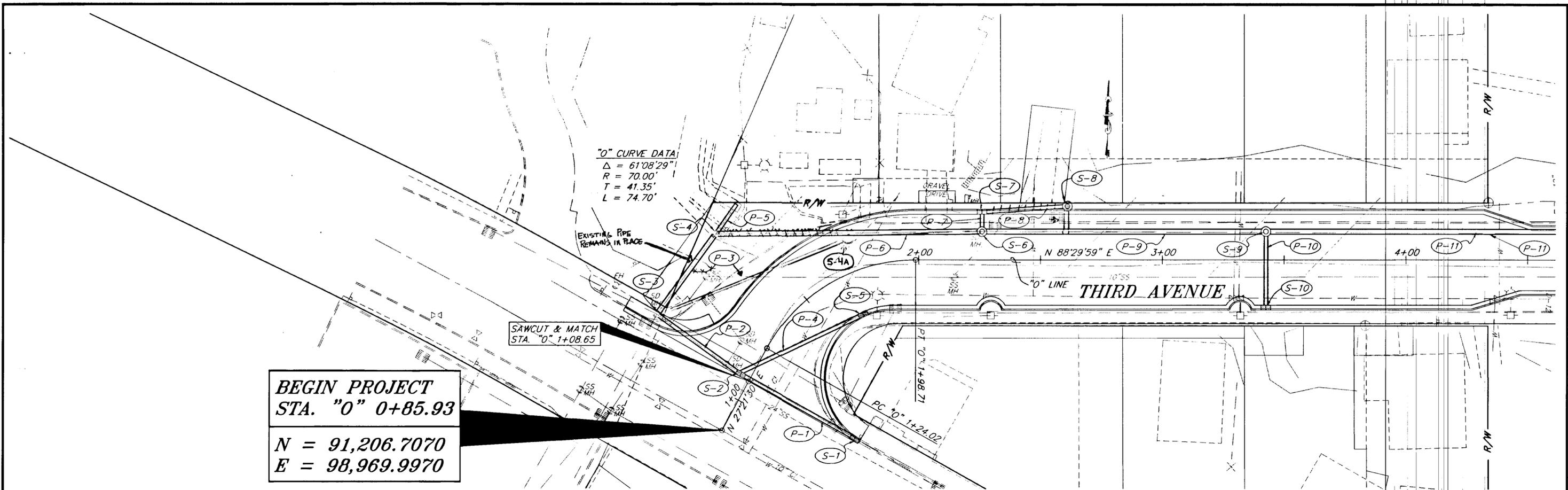
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KTN-THIRD AVENUE RECONSTRUCTION  
 STP-0003(4B) ~ 72089  
**TYPICAL 3RD AVENUE DETOUR**

DESIGNED BY: R. PURVIS  
 DRAWN BY: K. SNYDER  
 CHECKED BY: K. SMITH

PROJECT NO. 72089  
 DATE:  
 SHEET 30 OF 84

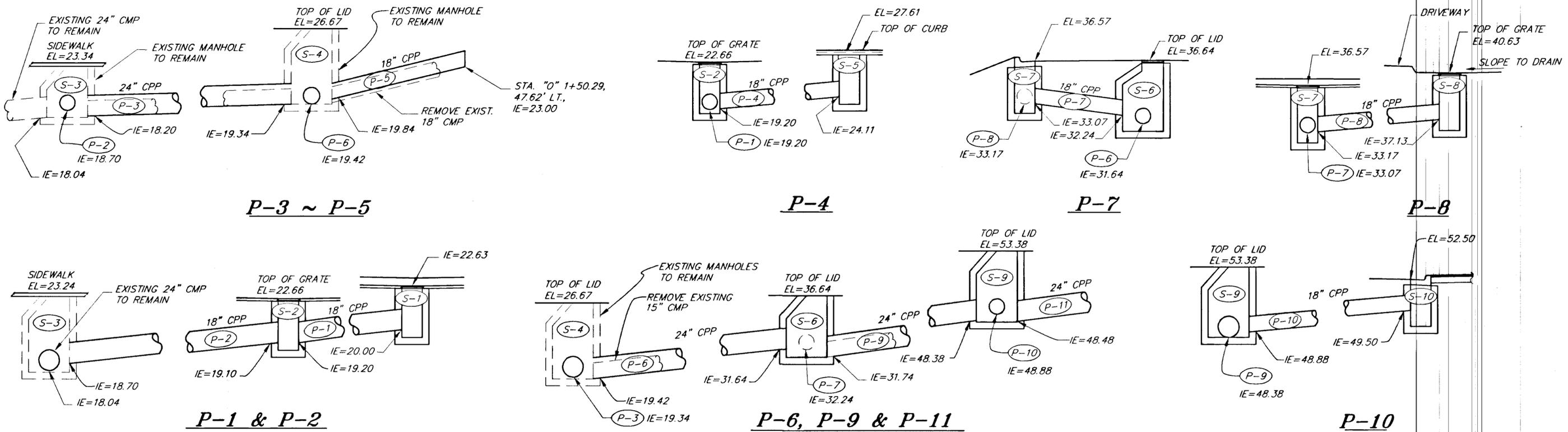




**BEGIN PROJECT**  
**STA. "0" 0+85.93**  
**N = 91,206.7070**  
**E = 98,969.9970**

"0" CURVE DATA  
 $\Delta = 61^{\circ}08'29"$   
 $R = 70.00'$   
 $T = 41.35'$   
 $L = 74.70'$

SAWCUT & MATCH  
 STA. "0" 1+08.65



**P-3 ~ P-5**

**P-4**

**P-7**

**P-8**

**P-1 & P-2**

**P-6, P-9 & P-11**

**P-10**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

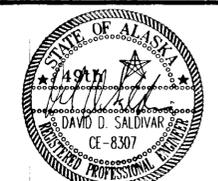
PATH: P:\KTN\72089\DR\SETUPSD VIEWS: PLAN1, DR1, TB1		
PLOT: P:\LIB\PLOT\PLTF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

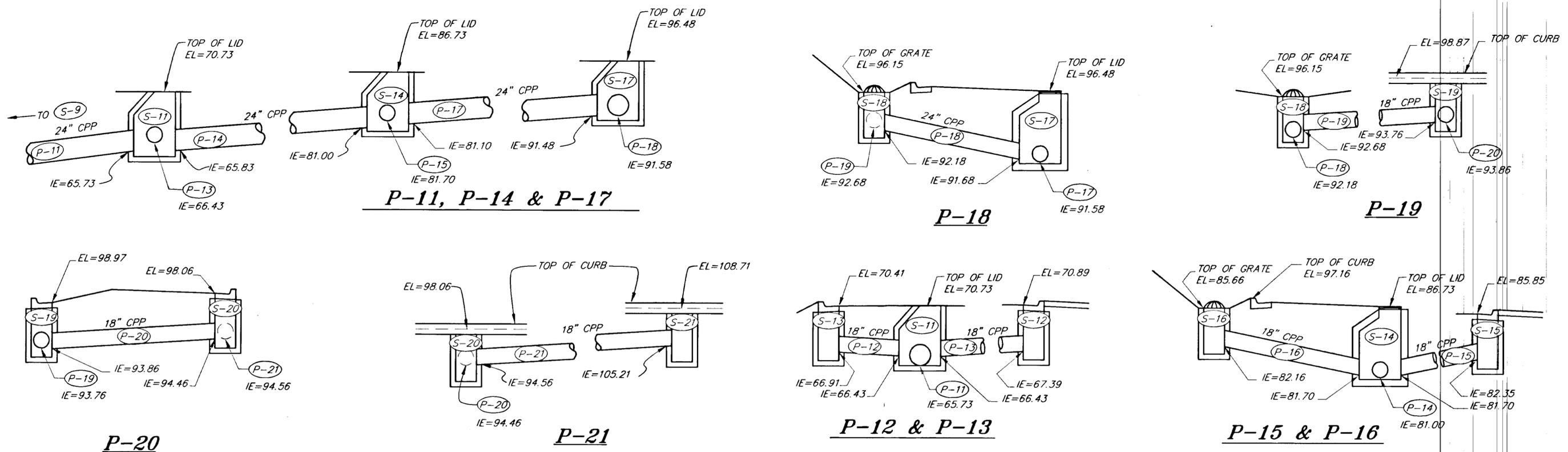
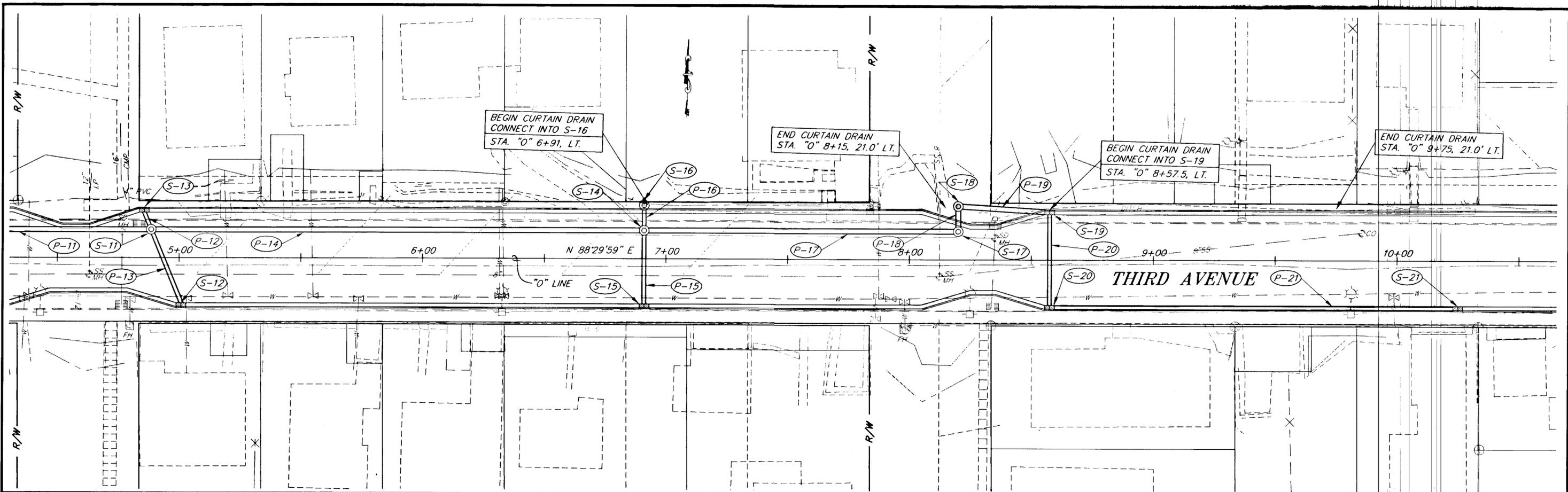
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 ALASKA  
 KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
**B.O.P. STA. "0" 0+85.93 TO STA. "0" 4+50**  
**STORM DRAIN SYSTEM**

DESIGNED BY:  
 D. SALDIVAR  
 DRAWN BY:  
 K. SNYDER  
 CHECKED BY:  
 D. SALDIVAR

PROJECT NO.  
 72089  
 DATE:  
 4/9/98  
 SHEET 31 OF 84





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
DATE:	DESCRIPTION OF CHANGE:	

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

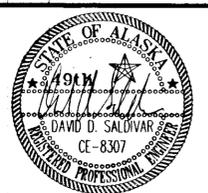
KETCHIKAN

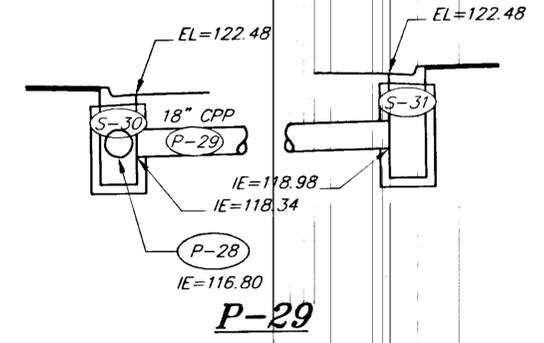
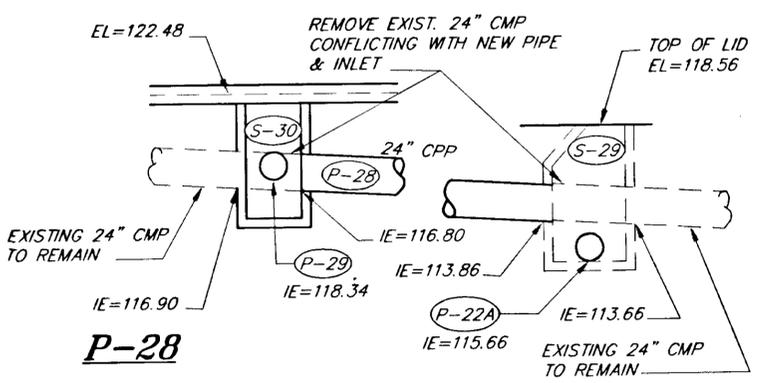
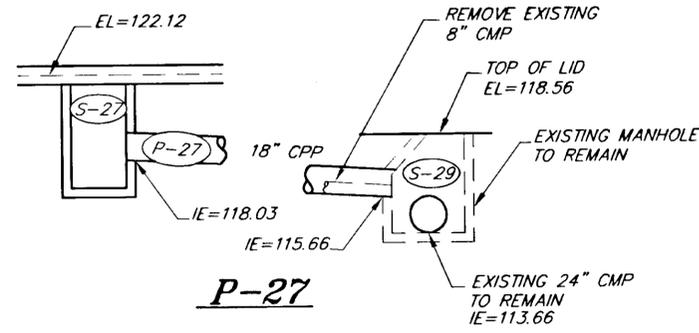
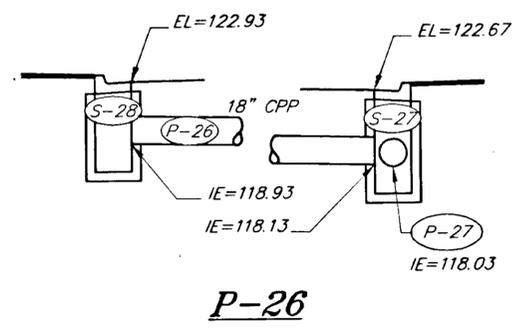
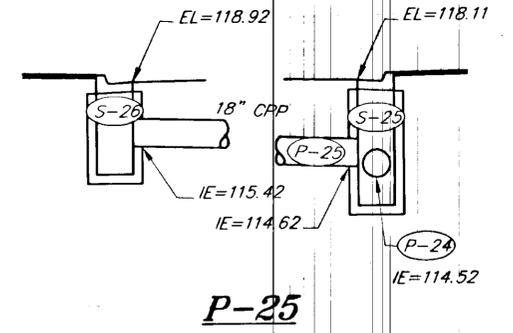
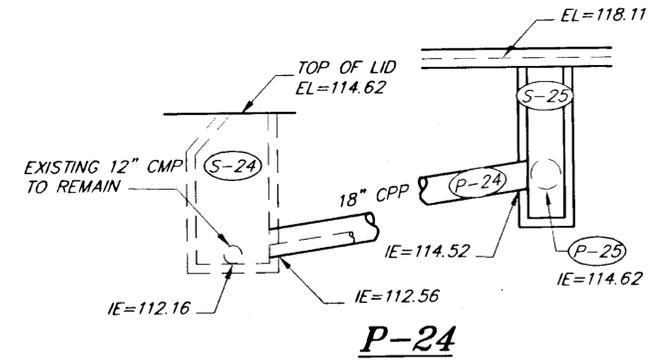
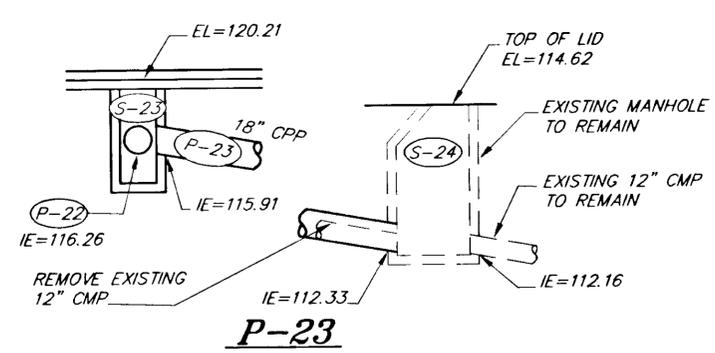
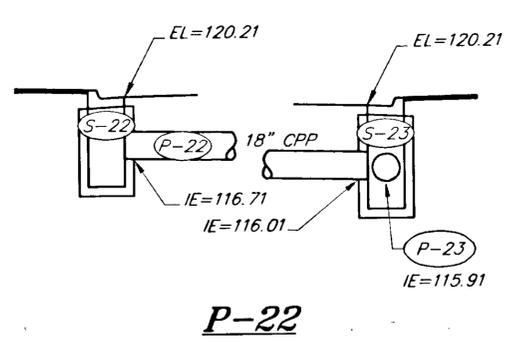
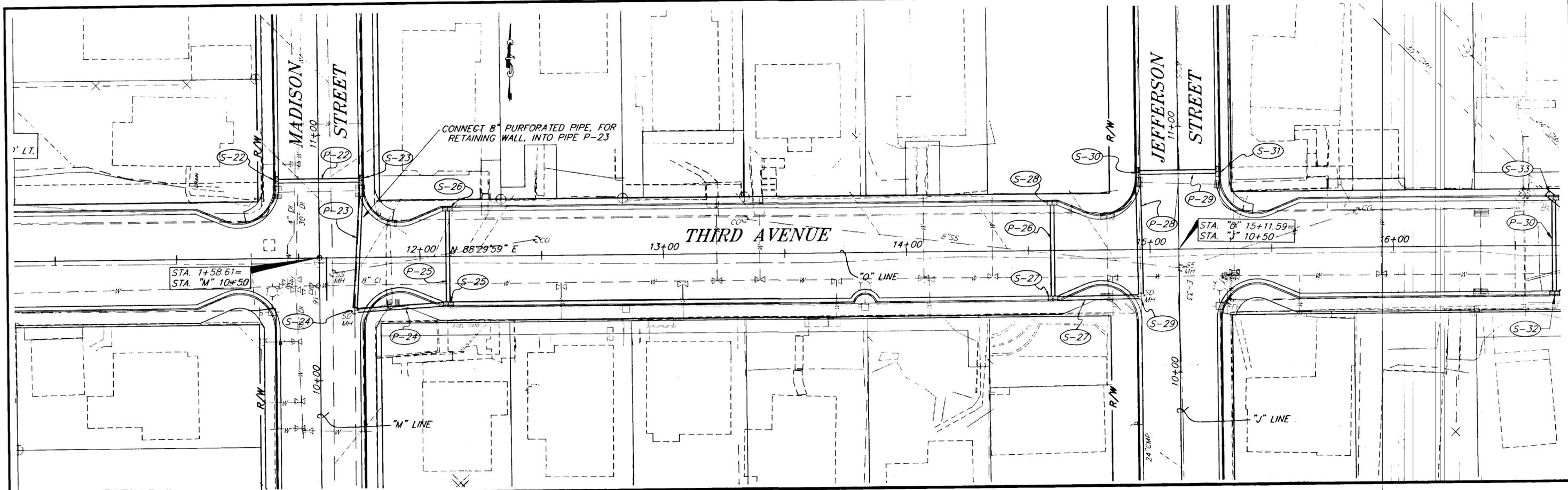
KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
 STA. "0" 4+50 TO STA. "0" 10+50  
 STORM DRAIN SYSTEM

ALASKA

DESIGNED BY:  
 D. SALDIVAR  
 DRAWN BY:  
 K. SNYDER  
 CHECKED BY:  
 D. SALDIVAR

PROJECT NO.  
 72089  
 DATE:  
 4/9/98  
 SHEET 32 OF 84





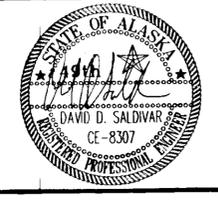
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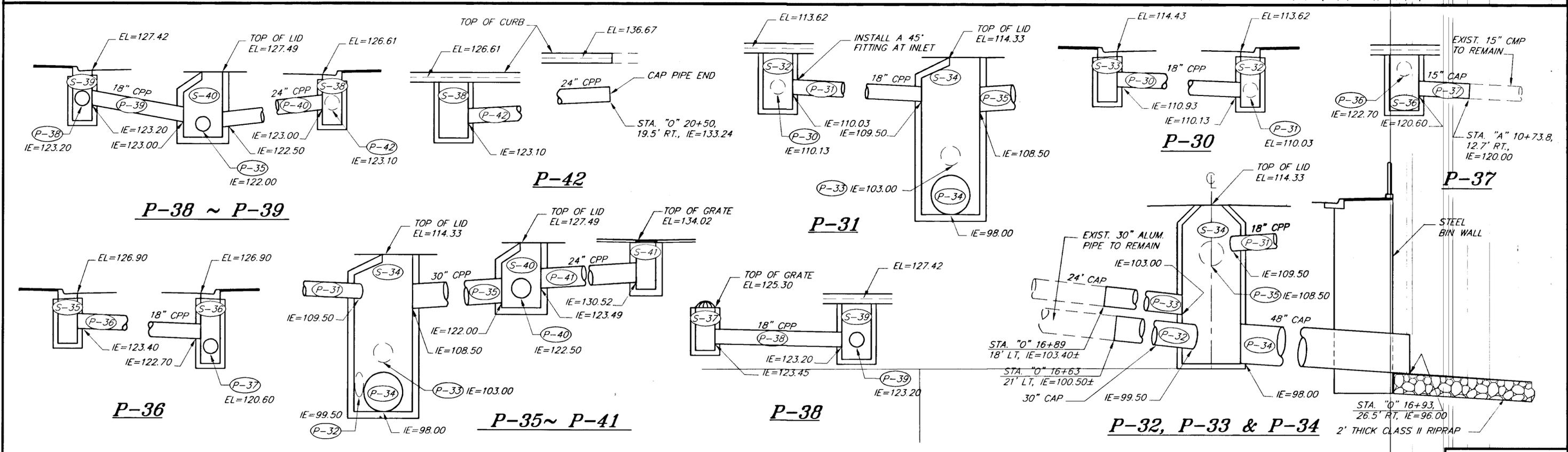
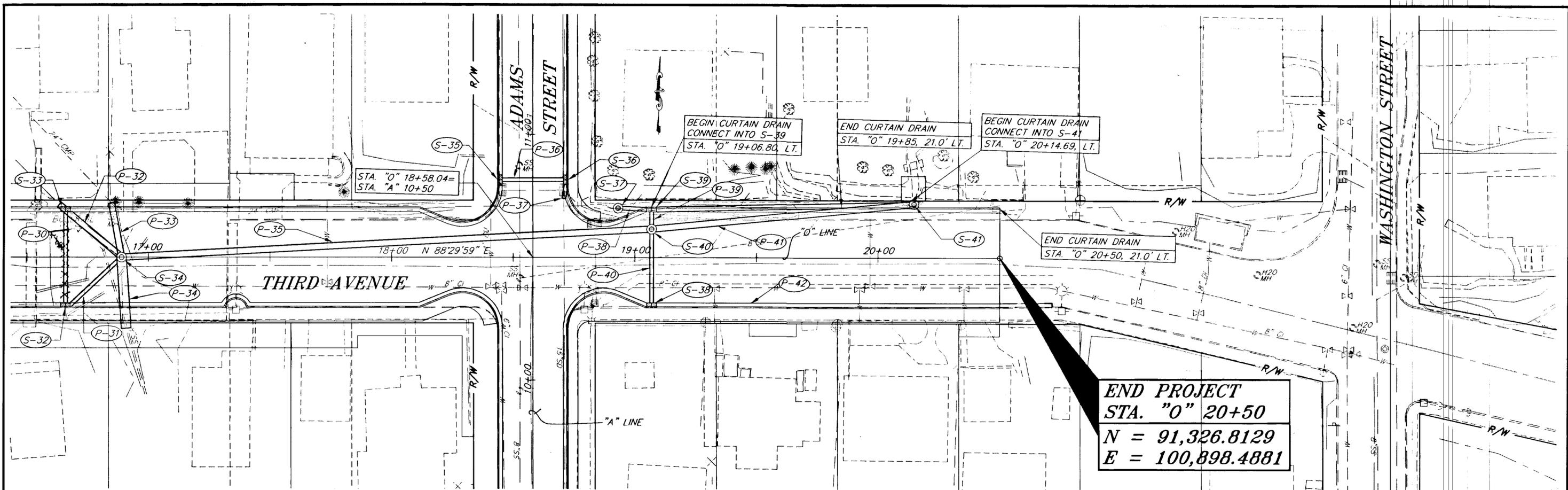
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BY:	DATE: DESCRIPTION OF CHANGE:
RECORD OF REVISIONS	

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

KETCHIKAN ALASKA  
 KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
 STA. "O" 10+50 TO STA. "O" 16+50  
 STORM DRAIN SYSTEM

DESIGNED BY: D. SALDIVAR	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/8/98
CHECKED BY: D. SALDIVAR	SHEET 33 OF 84





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

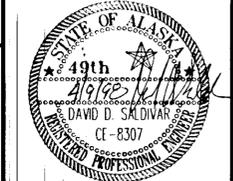
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BY:	DATE:	DESCRIPTION OF CHANGE:	
RECORD OF REVISIONS			

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

KETCHIKAN  
 KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089  
 ALASKA  
**STA. "O" 16+50 TO E.O.P. STA. "O" 22+50**  
**STORM DRAIN SYSTEM**

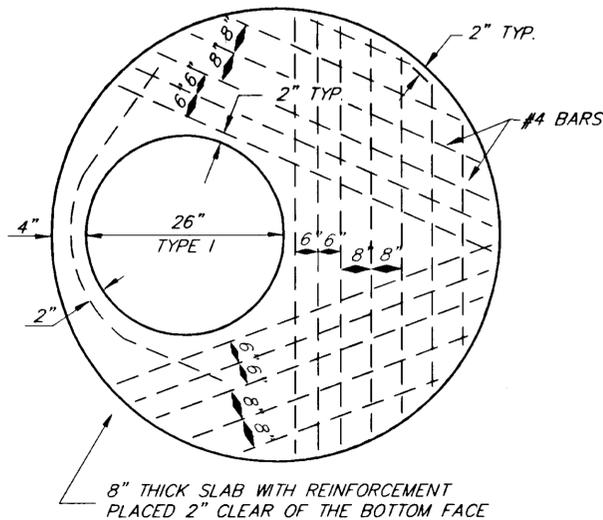
DESIGNED BY:  
 D. SALDIVAR  
 DRAWN BY:  
 K. SNYDER  
 CHECKED BY:  
 D. SALDIVAR

PROJECT NO.  
 72089  
 DATE:  
 SHEET 34 OF 84

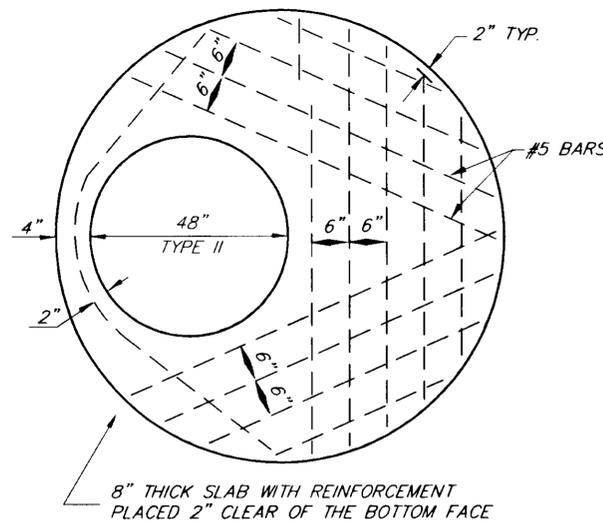


**MANHOLE NOTES**

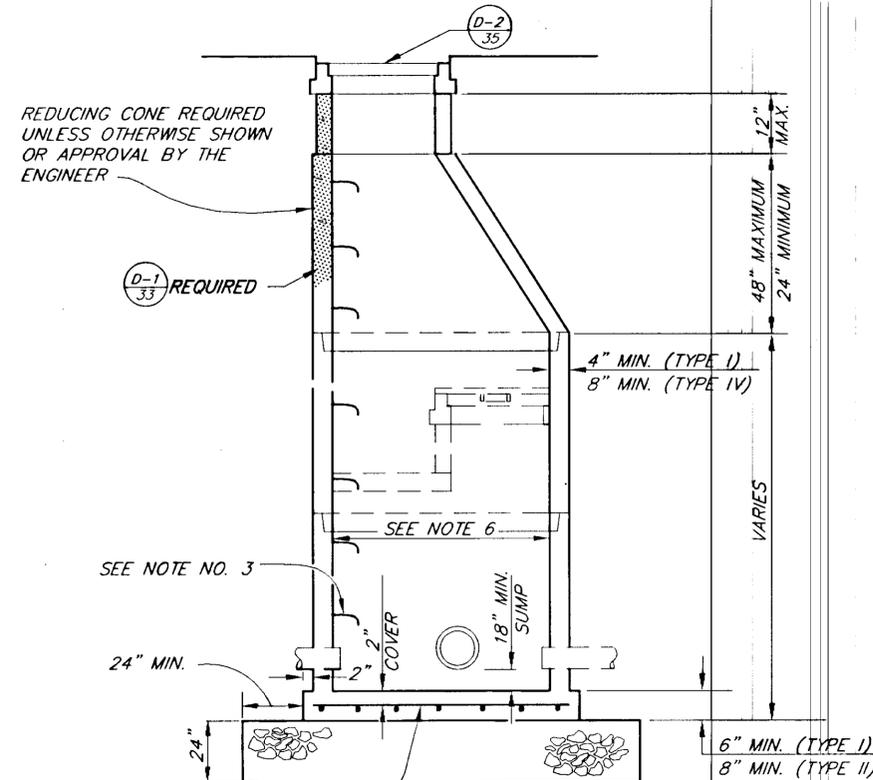
1. REFER TO A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69 SHALL BE EMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE.
4. ALL PIPES TO EXTEND 2" INTO MANHOLE.
5. BLOCKOUTS TO BE FORMED.
6. STORM DRAIN MANHOLE SHALL BE 48" INSIDE DIAMETER FOR TYPE I AND 84" FOR TYPE II.
7. SPECIAL BEDDING RIPRAP, CLASS I (NO ROUND ROCK) REQUIRED FOR ALL MANHOLES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SPECIAL BEDDING IS NOT REQUIRED, USE 24" MINIMUM DEPTH OF 1" MINUS WASHED ROCK. EXISTING SOILS OR OTHER GRANULAR MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER AND COMPACTED TO 95% OF MAXIMUM DENSITY.



**TYPE I MANHOLES**

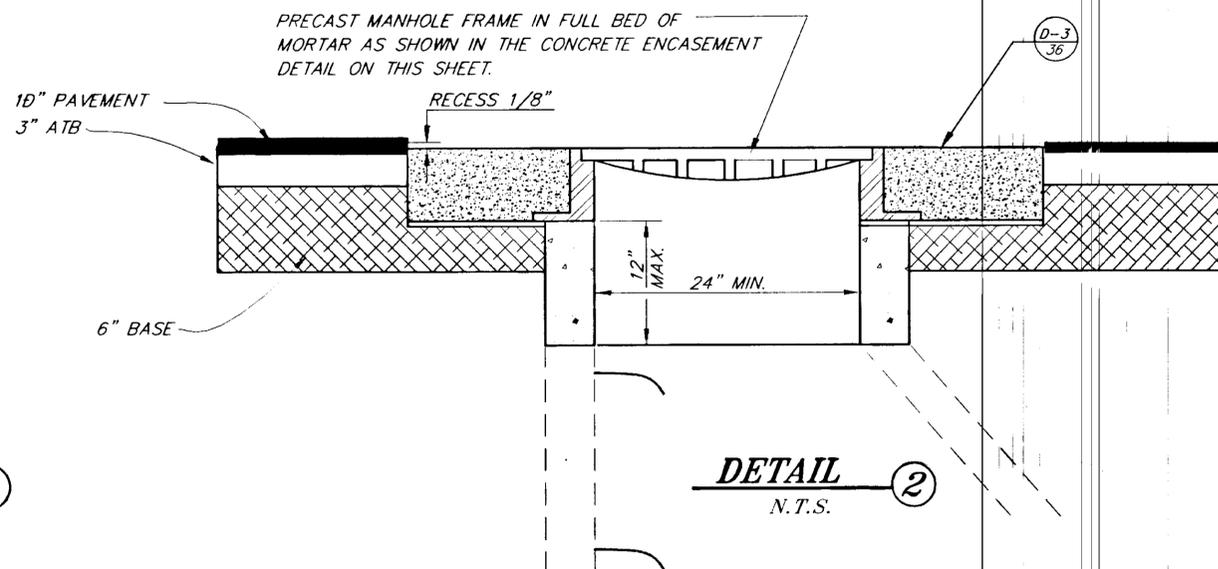


**TYPE IV MANHOLES  
PRECAST CONCRETE REDUCING CONE** ①  
N.T.S.



- TYPE I: #4 REBAR @ 12" O.C. BOTH WAYS.
- TYPE II: #5 REBAR @ 6" O.C. BOTH WAYS.

**CONCRETE MANHOLE DETAIL** ④



**DETAIL** ②  
N.T.S.

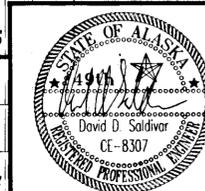
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

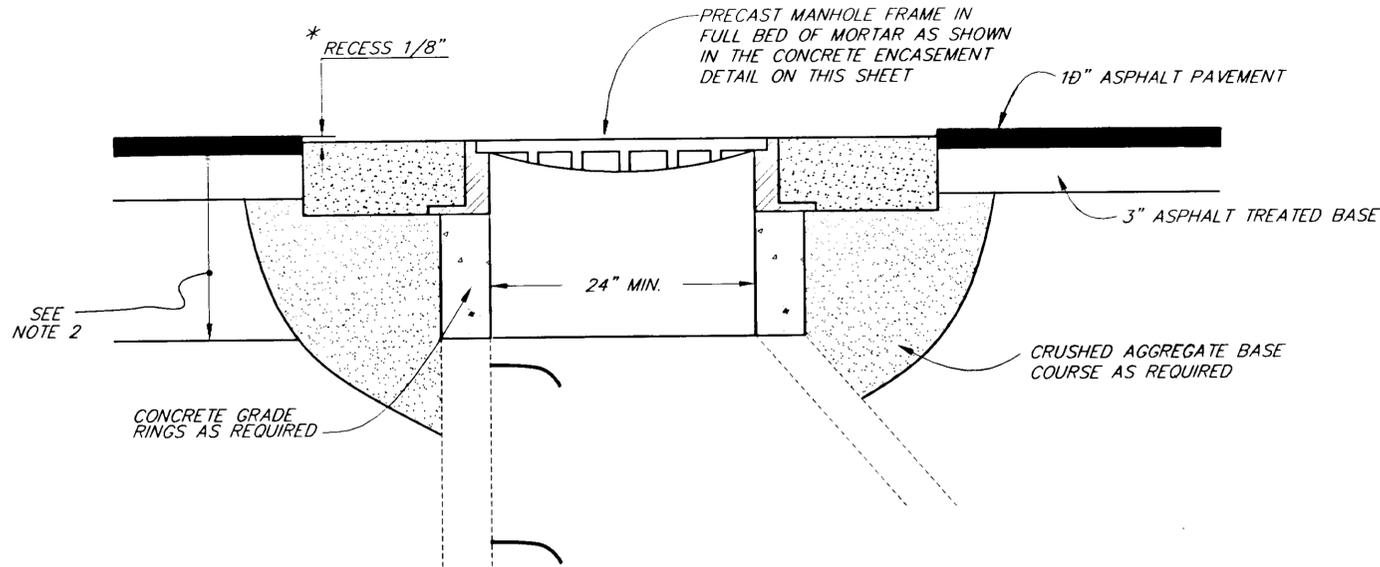
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BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

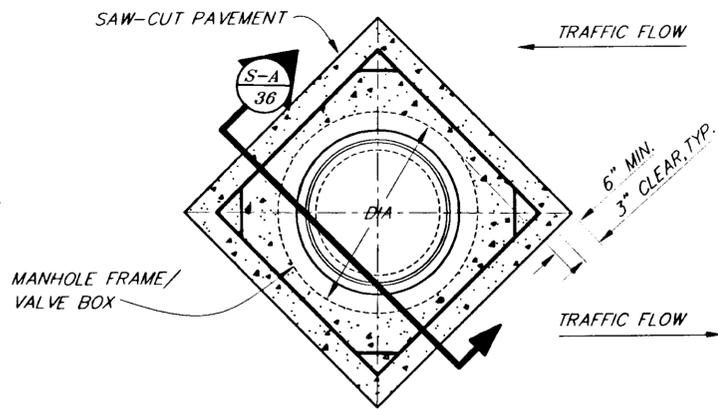
KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION  
ALASKA STP-0003(48) ~ 72089  
**MANHOLE DETAILS**

DESIGNED BY:	M. SHEELER	PROJECT NO.	72089
DRAWN BY:	C. ANDERSON	DATE:	4/9/98
CHECKED BY:	D. SALDIVAR	SHEET	35 OF 84

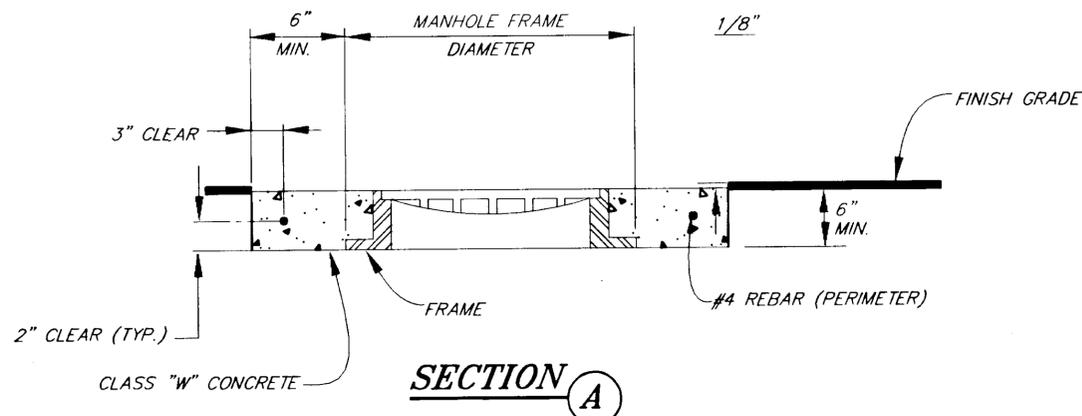




**ADJUST STORM/SEWER MANHOLE 1**



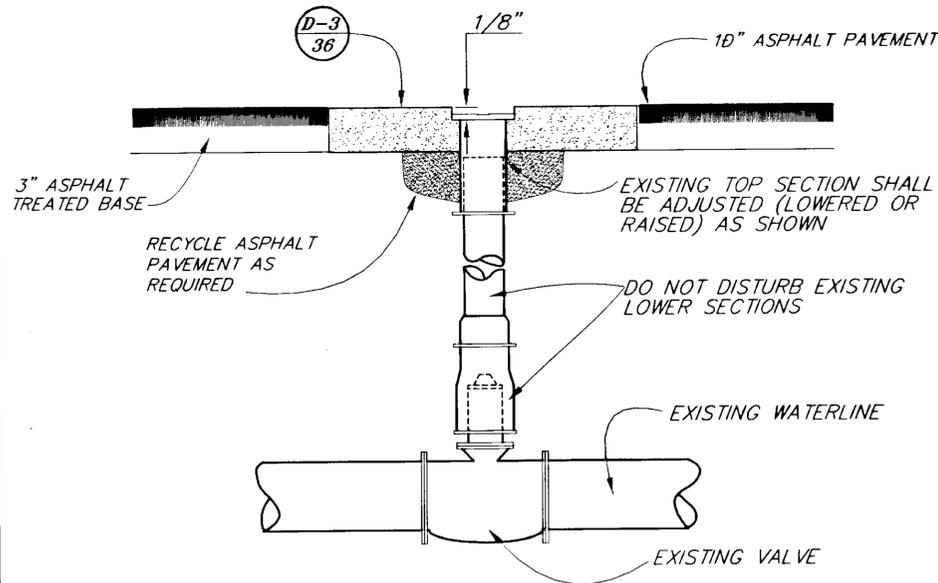
**CONCRETE ENCASEMENT DETAIL 3**



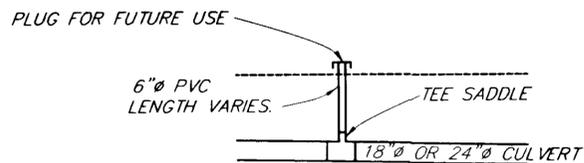
**SECTION A**

**NOTES:**

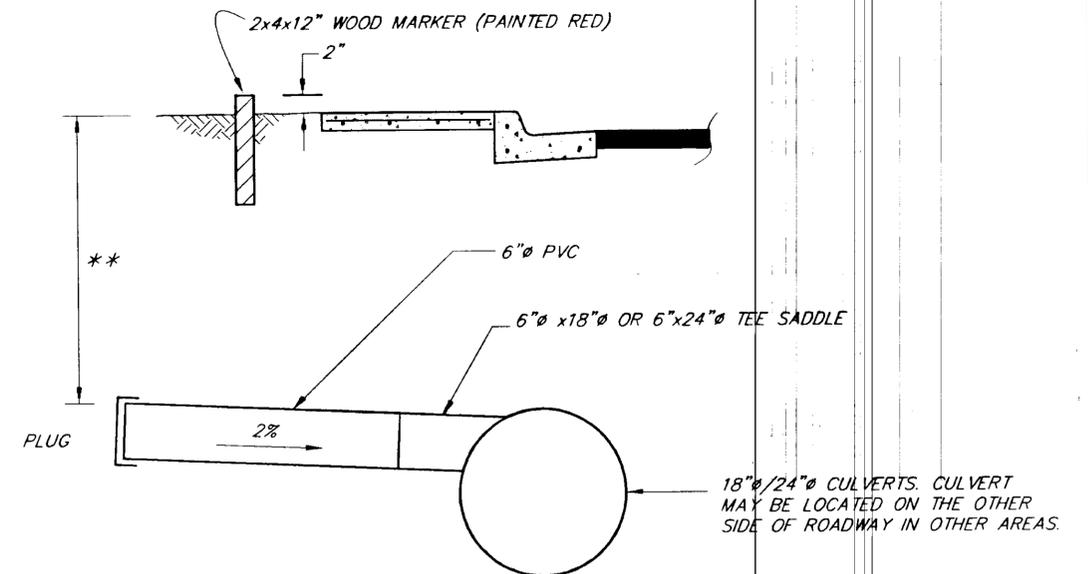
1. MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
2. NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 36" FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
3. ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
4. CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, INLETS OR VALVE BOX IS LOCATED IN THE SIDEWALK.



**VALVE BOX ADJUSTMENT DETAIL 2**



**ROOF DRAIN STUBOUT PLAN DETAIL**



**ROOF DRAIN STUBOUT PROFILE DETAIL**

\*\* STUBOUT SHALL BE INSTALLED AS DEEP AS POSSIBLE AND STILL PROVIDE A 2% GRADE.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

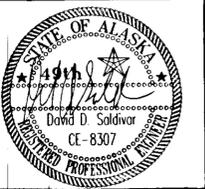
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BY: *	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

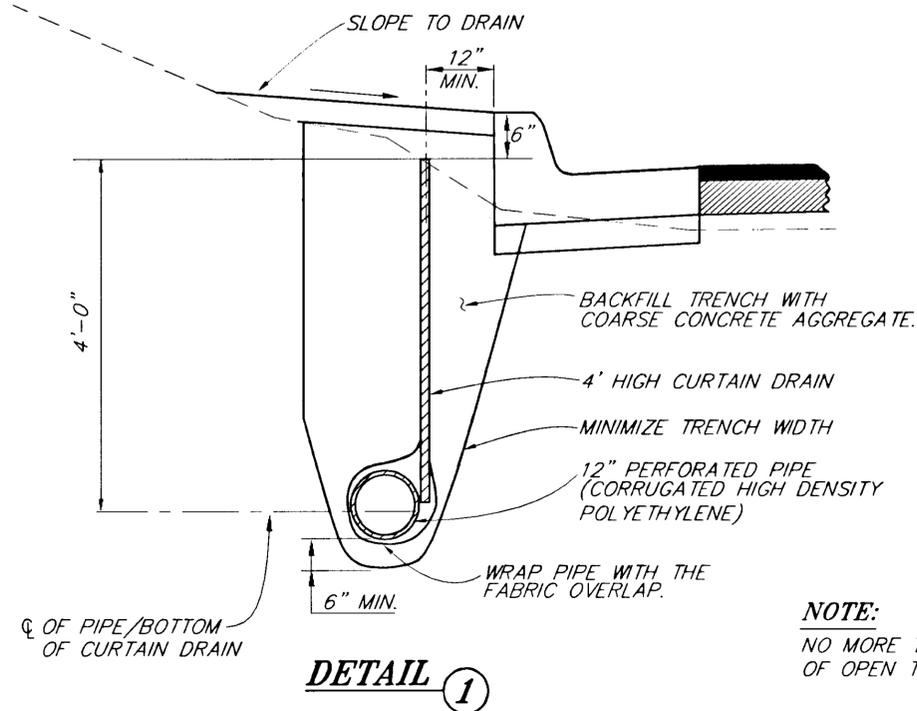
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(4B) ~ 72089  
ALASKA  
**MANHOLE VALVE BOX ADJUSTMENT**

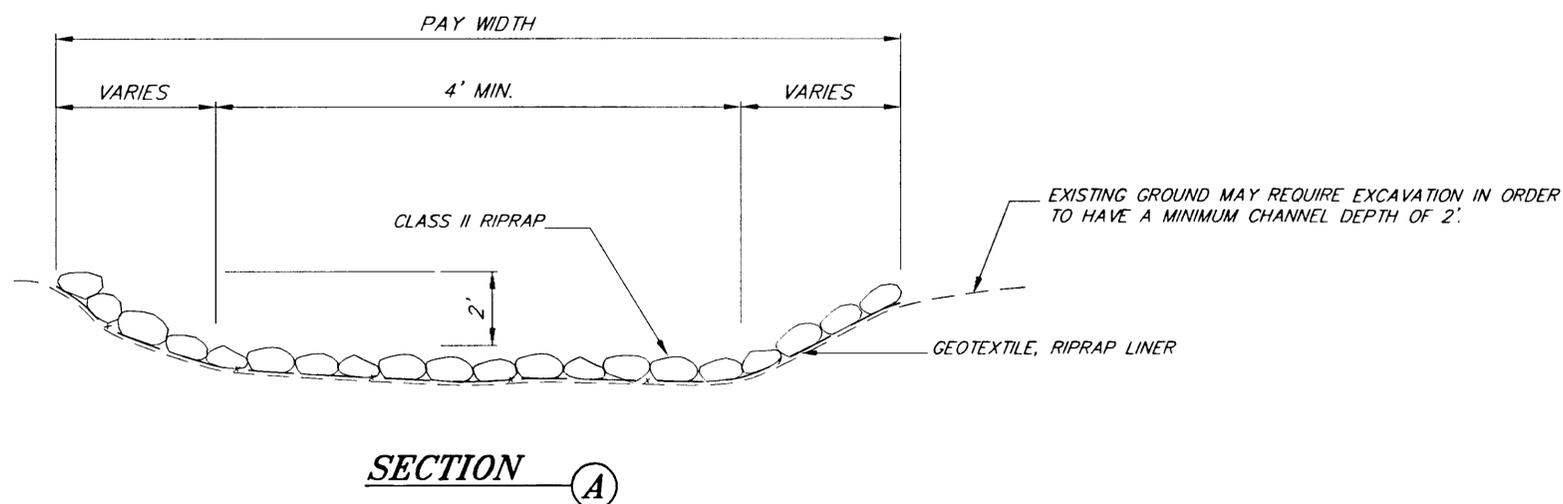
DESIGNED BY: M. SHEELER  
DRAWN BY: C. ANDERSON  
CHECKED BY: D. SALDIVAR

PROJECT NO. 72089  
DATE: 4/9/98  
SHEET 36 OF 84

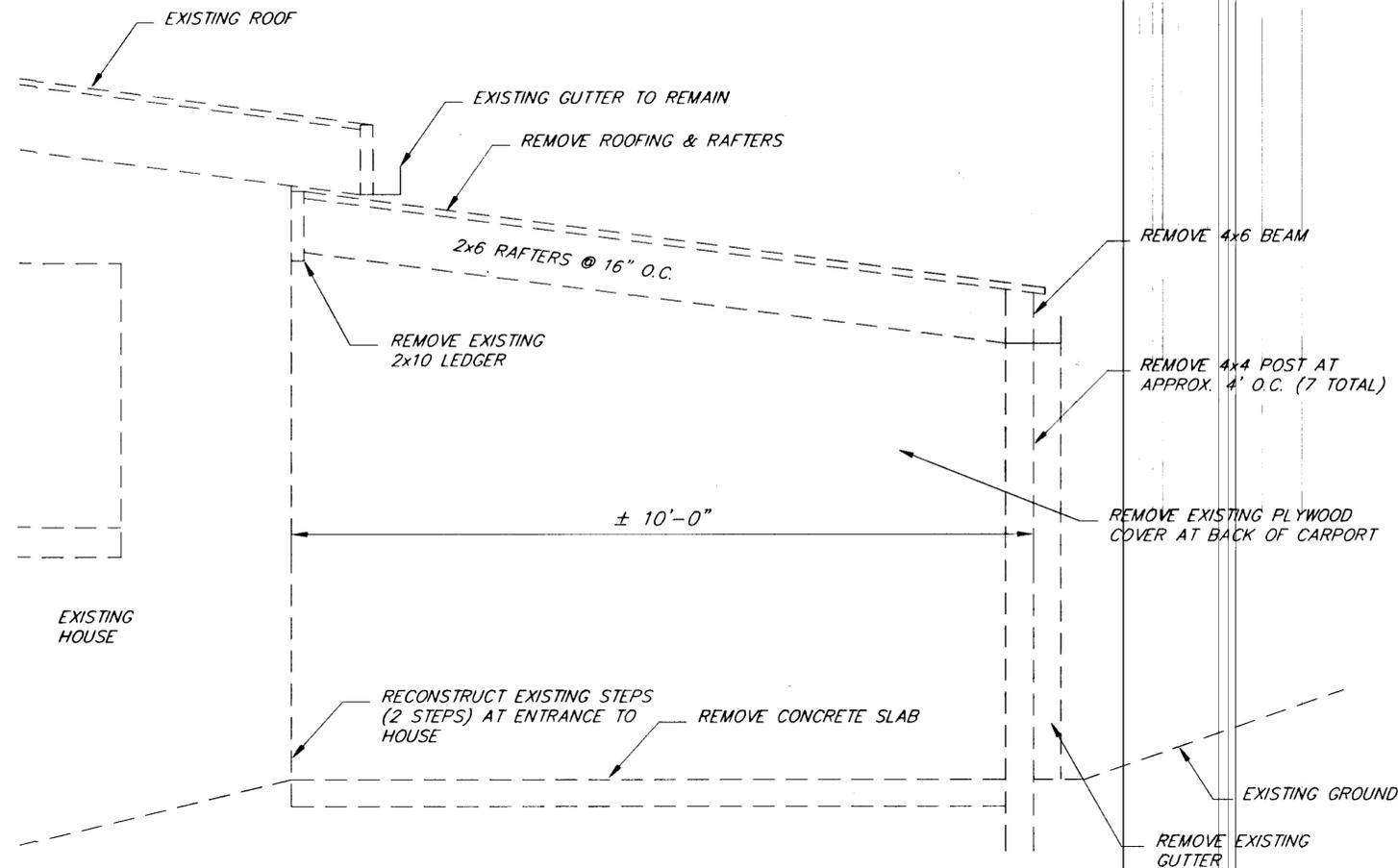




CURTAIN DRAIN SUMMARY					
BEGIN STATION	OFFSET	END STATION	OFFSET	LENGTH	REMARKS
"0" 2+25	LT.	"0" 10+50	LT.	825 FT.	
"0" 11+90	LT.	"0" 14+50	LT.	260 FT.	
"0" 18+80	LT.	"0" 20+50	LT.	170 FT.	



END OF PIPE P-34 AND STA. "0" 17+21, 127' RT.



**CARPORT DEMOLITION PLAN**

2503 THIRD AVENUE

**CARPORT RECONSTRUCTION REQUIREMENTS**

- CONTRACTOR SHALL SUBMIT A PLAN TO RECONSTRUCT EXISTING CARPORT MEETING THE FOLLOWING REQUIREMENTS:
  - LENGTH AND WIDTH OF RECONSTRUCTED CARPORT SHALL MATCH EXISTING.
  - ROOFING (PLYWOOD SHEATHING, RAFTERS AND BEAM) SHALL BE RATED TO CARRY THE LOADING REQUIREMENTS AS REQUIRED BY LOCAL BUILDING CODES.
  - COLUMNS SUPPORTING THE ROOF SHALL BE SPACED AND SIZED AS REQUIRED BY LOCAL BUILDING CODES. COLUMNS SHALL BE PRESSURE TREATED FOR GROUND CONTACT. FOUNDATION FOR COLUMNS SHALL BE REINFORCED CONCRETE MEETING LOCAL BUILDING CODES.
  - GRADE OF EXISTING CARPORT SHALL BE LOWERED APPROXIMATELY 14 INCHES TO PROVIDE A SMOOTH TRANSITION TO NEW ROADWAY ELEVATION. EXISTING CONCRETE SLAB SHALL BE REPLACED WITH A REINFORCED 6" CONCRETE SLAB.
  - REPLACE EXISTING GUTTER WITH NEW.
  - EXISTING STEPS SHALL BE RECONSTRUCTED TO MEET NEW GRADES AND CONFORMING TO LOCAL BUILDING CODES.
- LOWERING THE CARPORT GRADE WILL REQUIRE THE CONTRACTOR TO INSTALL A ROCKERY WALL OR RIPRAP SIZE ROCKS TO COMPENSATE THE GRADE DIFFERENCE BETWEEN THE NEW CARPORT GRADE AND THE SURROUNDING GRADE.
- CONTRACTOR SHALL SUBMIT A COMPLETE SET OF PLANS TO THE CITY AND BOROUGH OF KETCHIKAN FOR LOCAL APPROVALS AND BUILDING PERMITS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\72089\DR\DETA			
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

KETCHIKAN

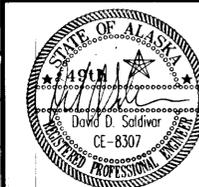
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(48) ~ 72089

ALASKA

**MISCELLANEOUS DETAILS**

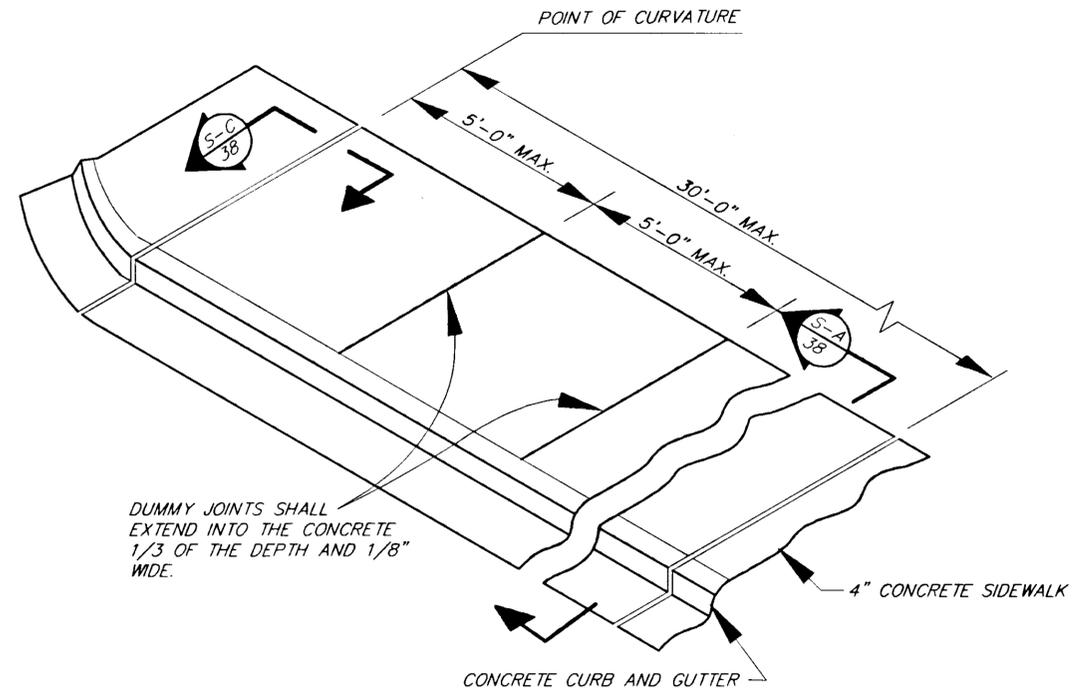
DESIGNED BY:	M. SHEELER
DRAWN BY:	C. ANDERSON
CHECKED BY:	D. SALDIVAR

PROJECT NO.	72089
DATE:	2/9/98
SHEET	37 OF 84



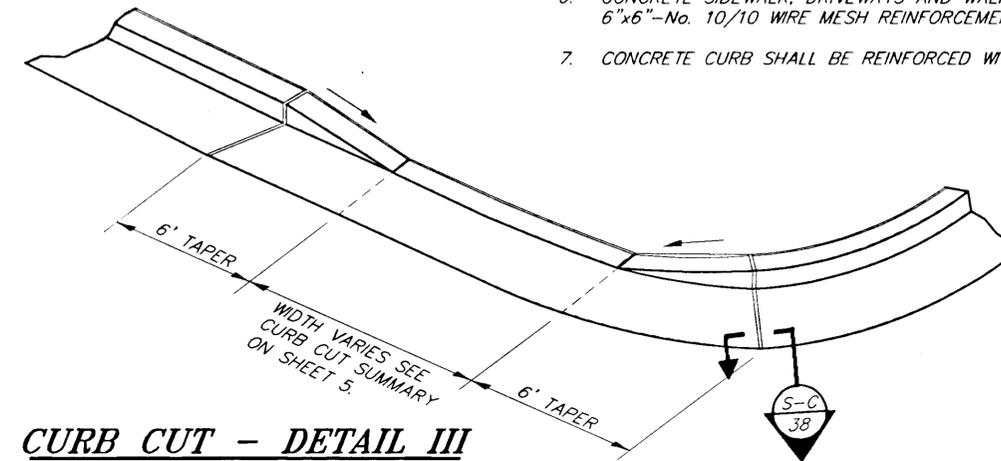
**SIDEWALK, CURB AND GUTTER NOTES**

1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30'-0" MAXIMUM.
2. ALL CURB AND GUTTERS SHALL BE CLASS "A" CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF  $f_c = 3000$  psi.
3. CURB CUT FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 12:1.
4. SEE WORK SUMMARY ON SHEET 5 FOR DRIVEWAY WIDTHS. NEW CURB CUTS SHALL BE LOCATED TO MATCH EXISTING.
5. IF EXISTING JOINT IS WITHIN 2' OF RECONSTRUCTION AREAS, REMOVE AT JOINT INSTEAD OF SAWCUTTING. THIS DOES NOT APPLY TO NEW CONSTRUCTION.
6. CONCRETE SIDEWALK, DRIVEWAYS AND WALKWAYS SHALL BE REINFORCED WITH 6"x6"-No. 10/10 WIRE MESH REINFORCEMENT.
7. CONCRETE CURB SHALL BE REINFORCED WITH THREE #4 CONTINUOUS REBAR.

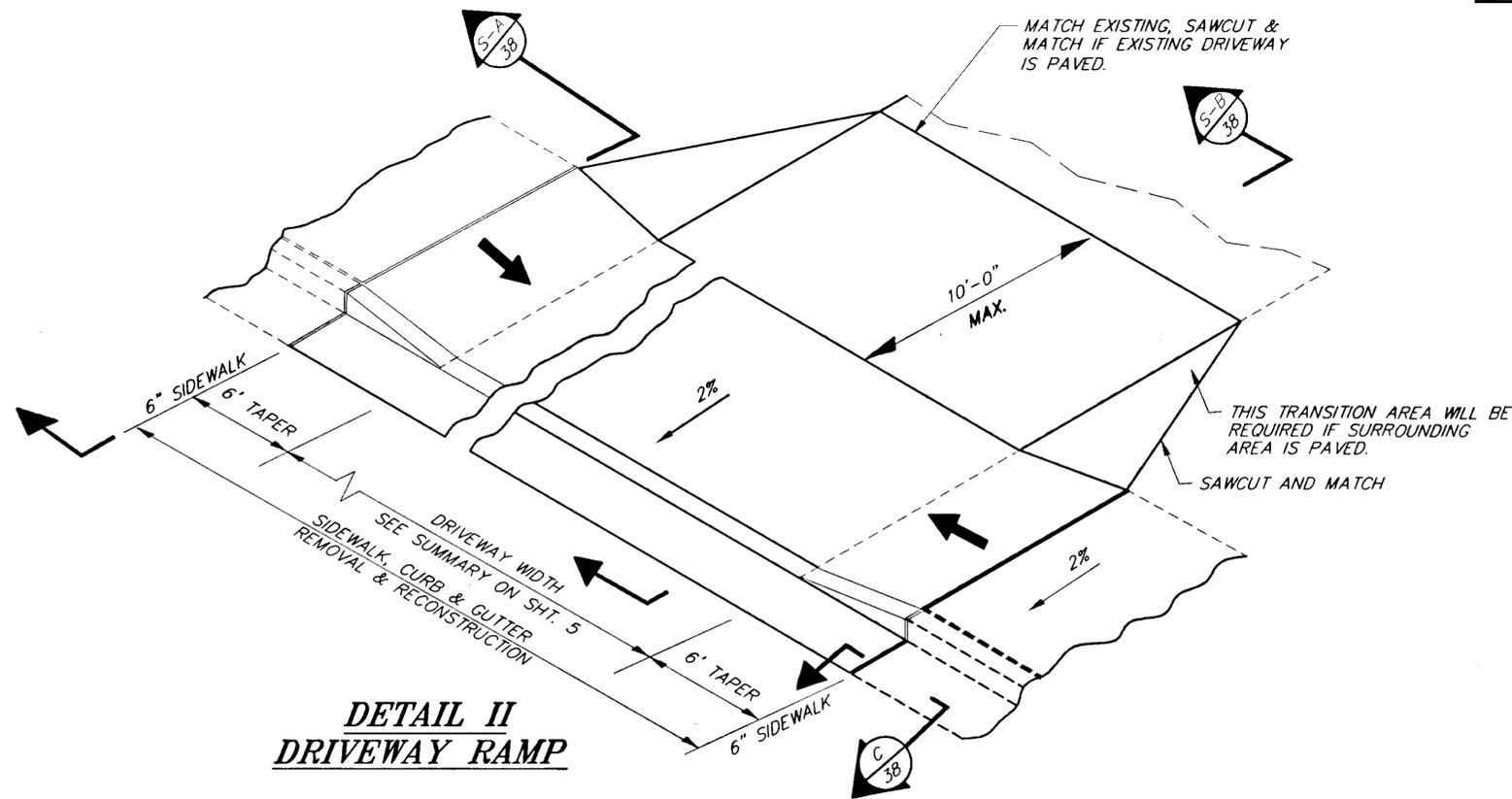


**DETAIL I**

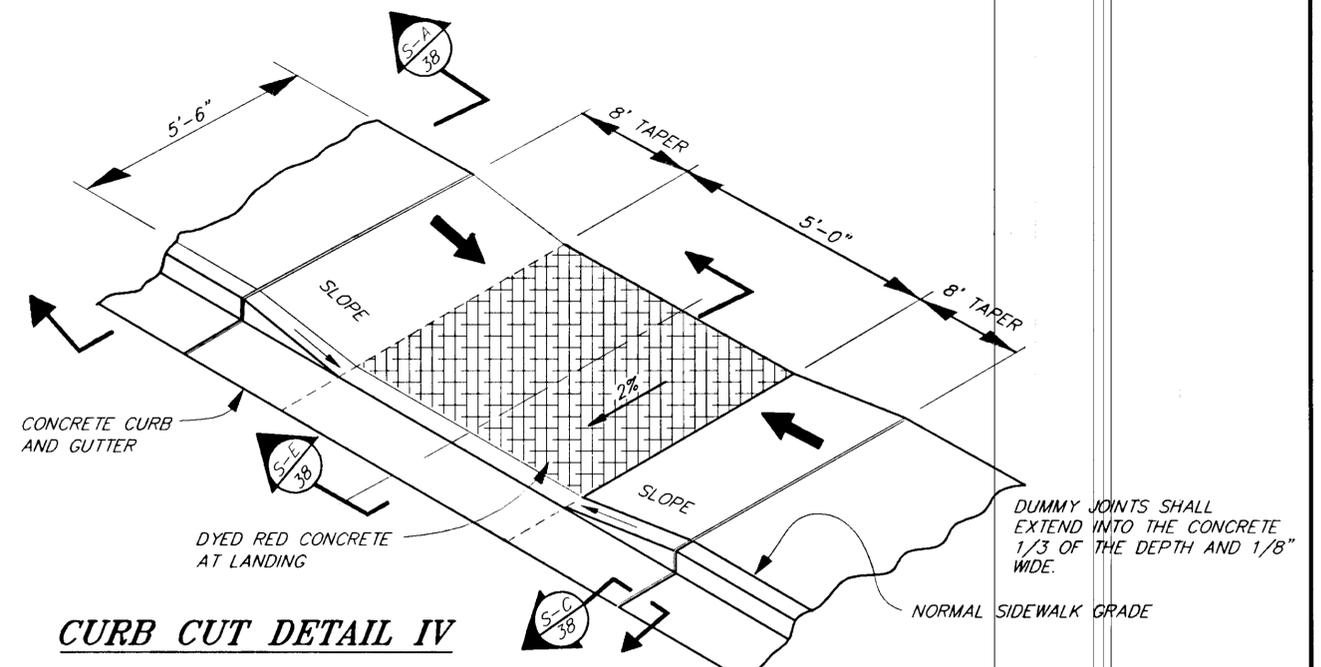
**TYPICAL SIDEWALK, CURB & GUTTER**



**CURB CUT - DETAIL III**



**DETAIL II  
DRIVEWAY RAMP**



**CURB CUT DETAIL IV**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: P:\-LIB\-PLOT\PL0T.PCP(1) OR PL0T.PCP(2)	
BY:	DATE:
DESCRIPTION OF CHANGE:	
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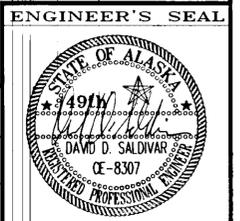
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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SOUTHEAST REGION DESIGN & CONSTRUCTION

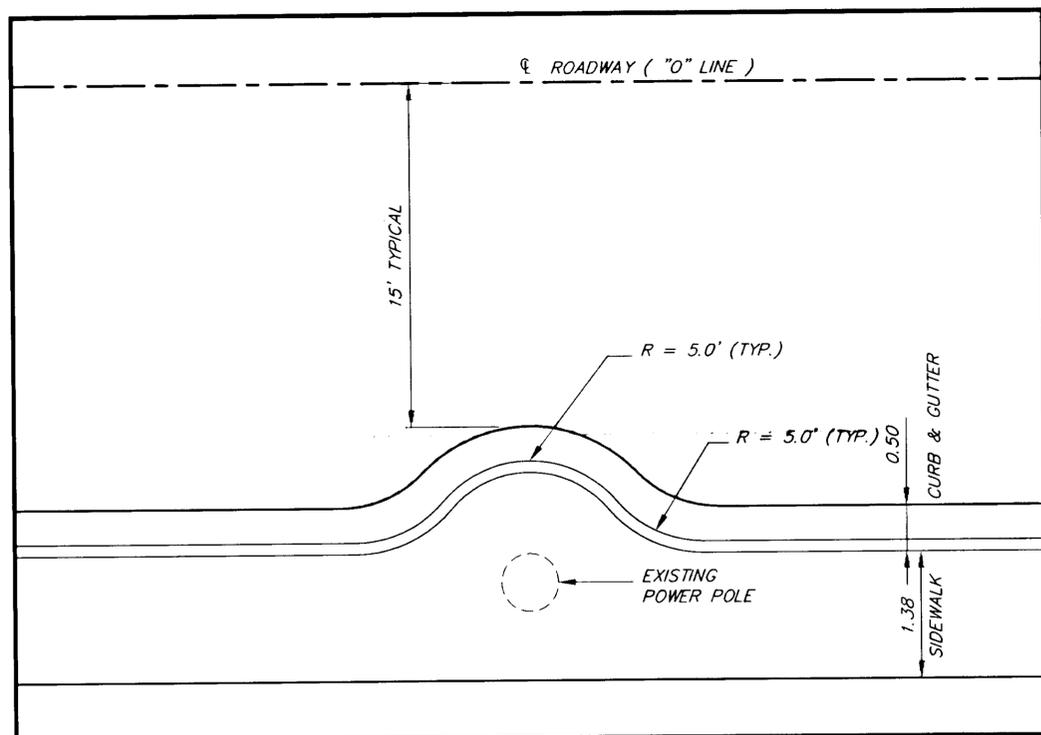
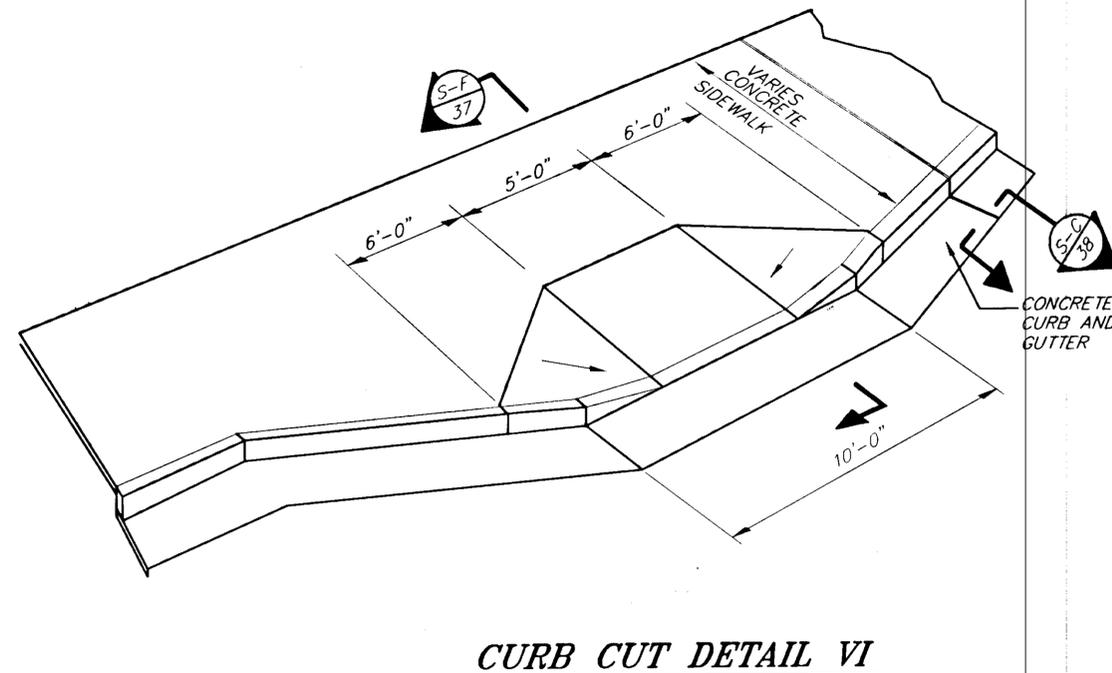
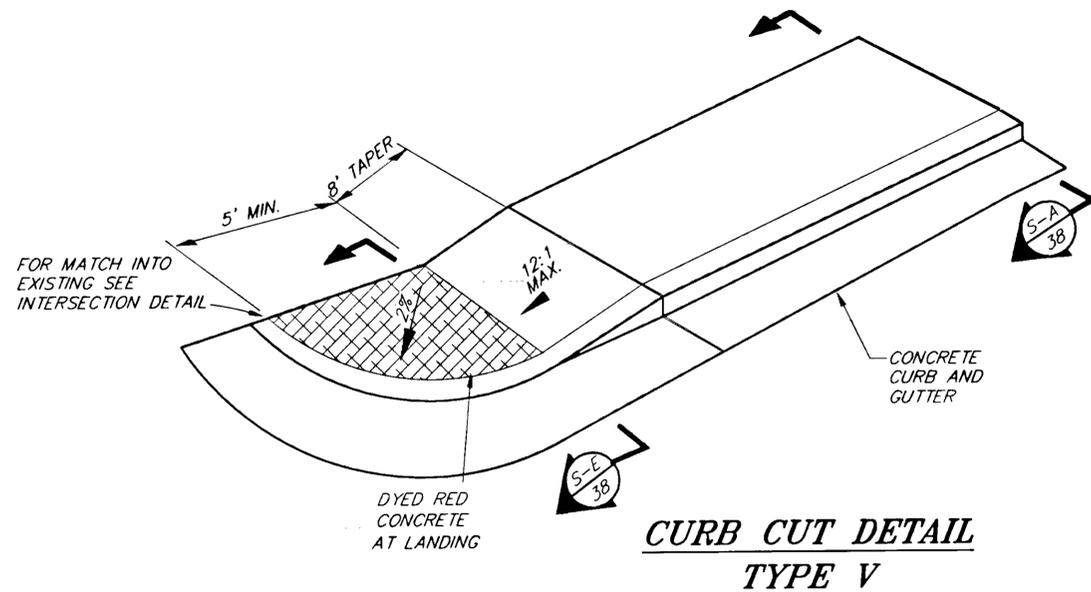
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KTN-THIRDAVENUE RECONSTRUCTION  
ALASKA  
PROJECT NO. STP-0003 (48) ~ 72089  
**SIDEWALK AND CURB CUT DETAILS**

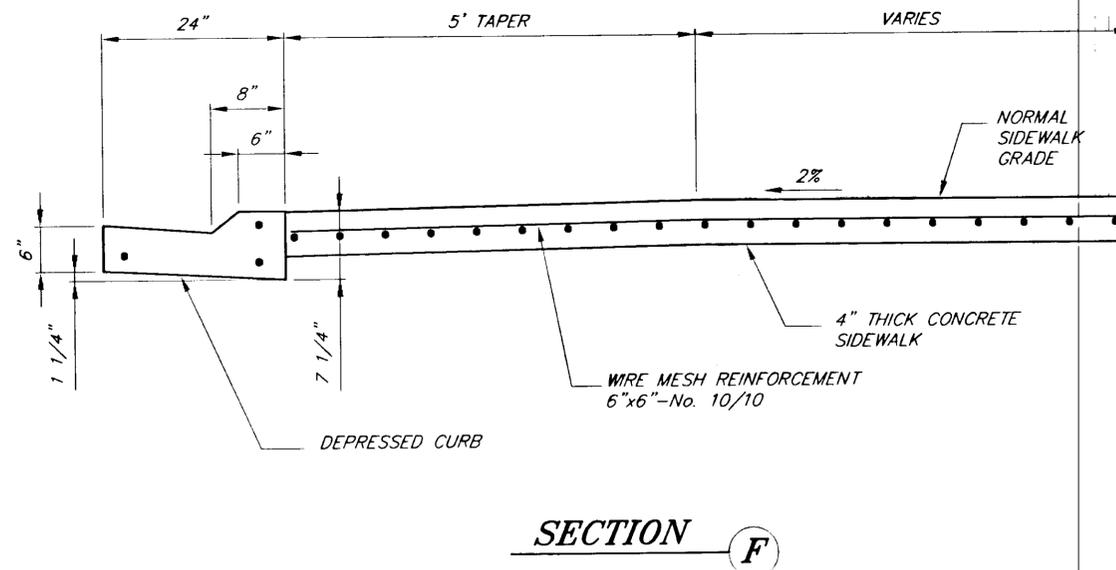
DESIGNED BY: D. SALDIVAR  
DRAWN BY: R. SNYDER  
CHECKED BY: D. SALDIVAR

PROJECT NO. 72089  
DATE: 4/9/98  
SHEET 38 OF 84





STA. "0" 2+29.62, RT.  
 STA. "0" 3+32.01, RT.  
 STA. "0" 13+82.75, RT.  
 STA. "0" 17+36.07, RT.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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

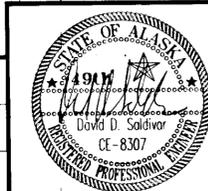
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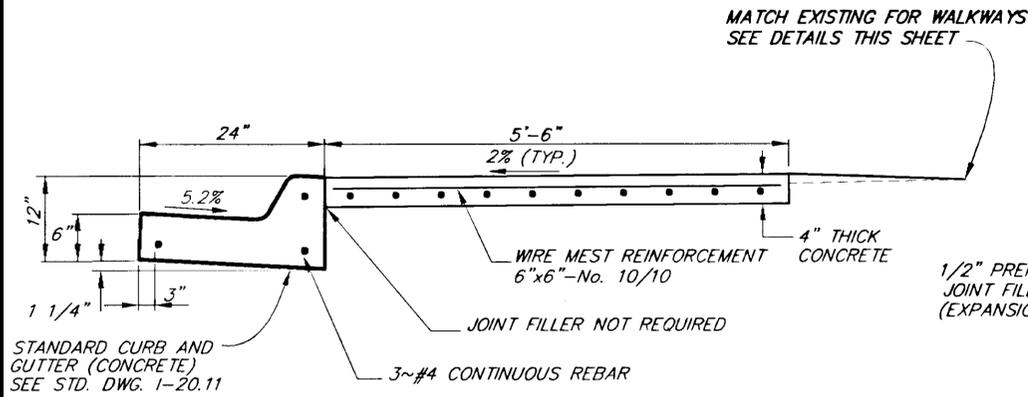
KTN-THIRD AVENUE RECONSTRUCTION  
 STP-0003(4B) ~ 72089

ALASKA

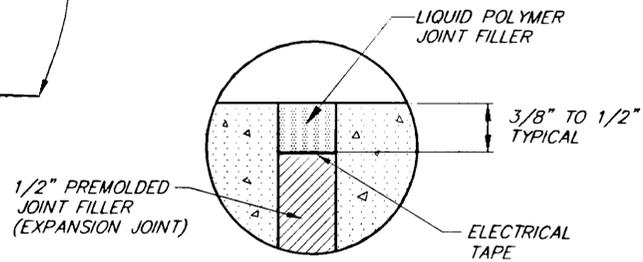
DESIGNED BY:  
 M. SHEELER  
 DRAWN BY:  
 C. ANDERSON  
 CHECKED BY:  
 D. SALDIYAR

PROJECT NO.  
 72089  
 DATE:  
 4/9/98  
 SHEET 39 OF 84

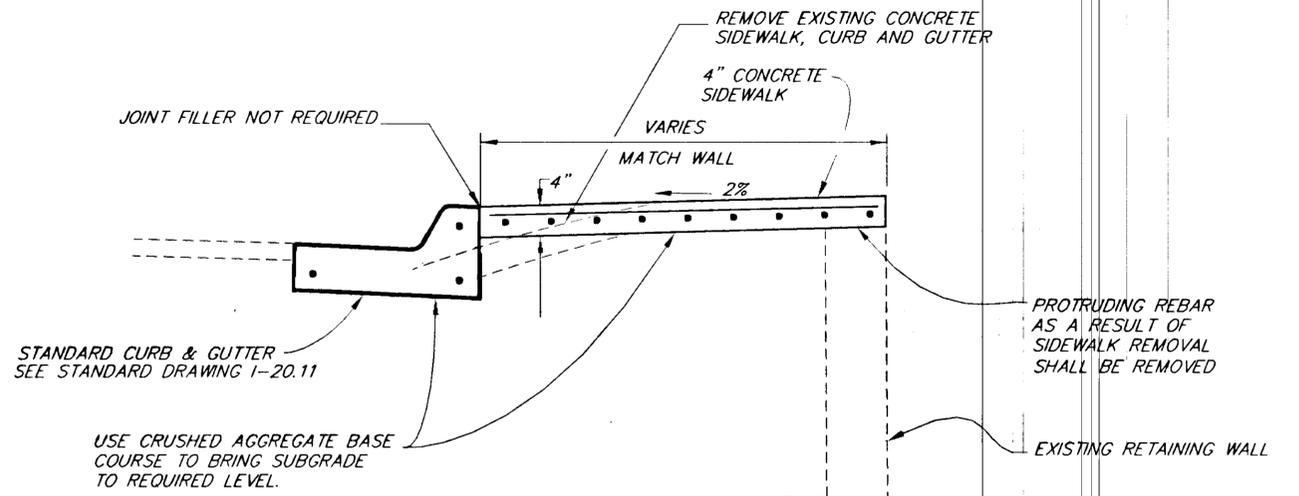




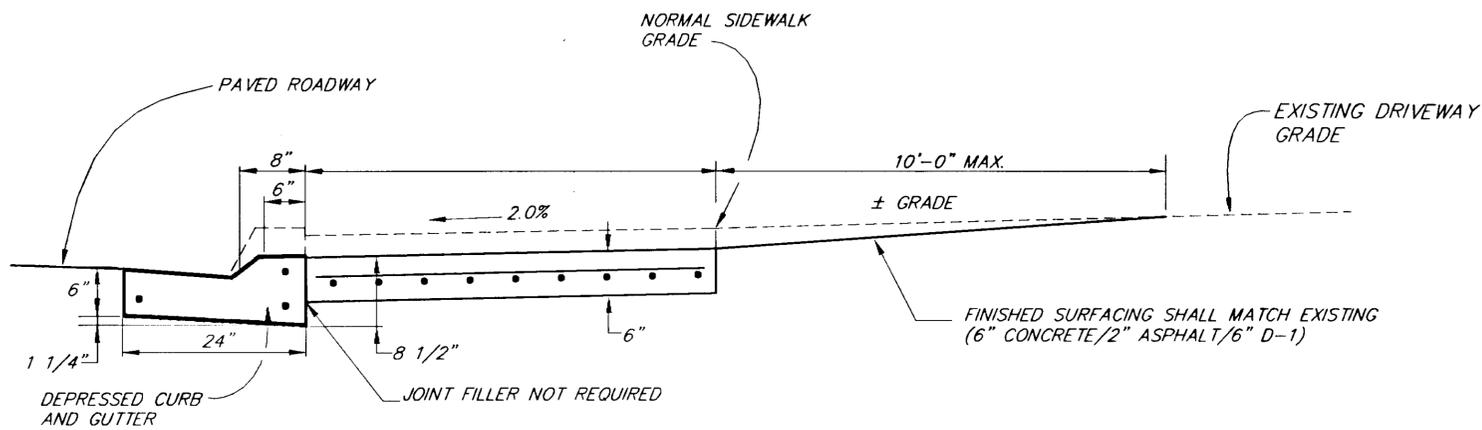
**TYPICAL SECTION A**



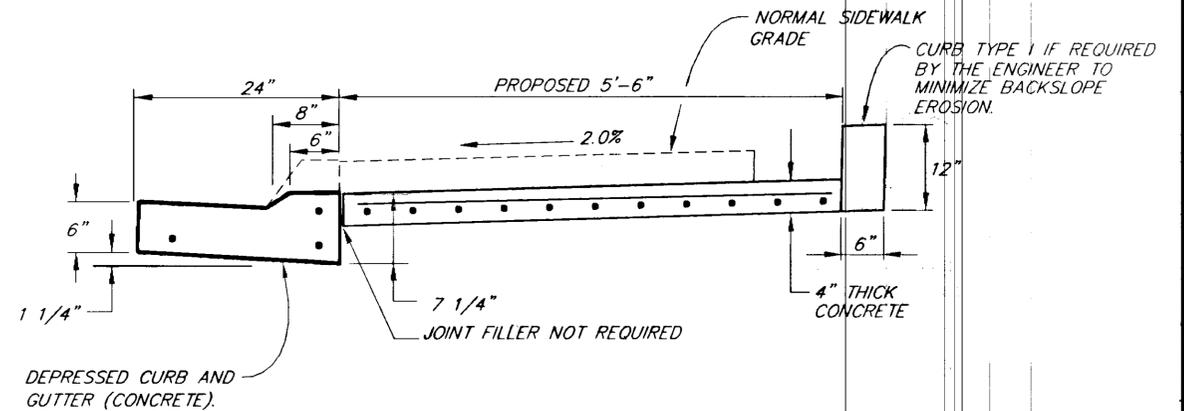
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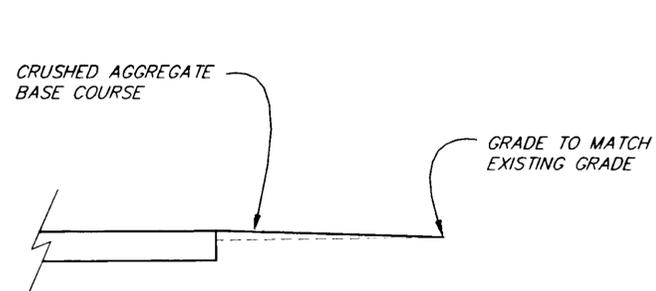
**SECTION D  
W/ WALL**



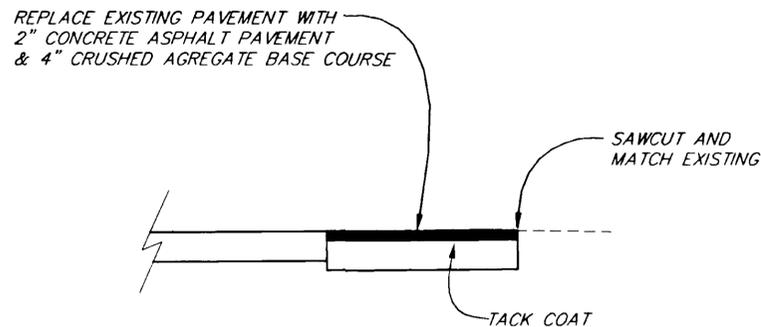
**SECTION B  
DEPRESSED CURB & DRIVEWAY**



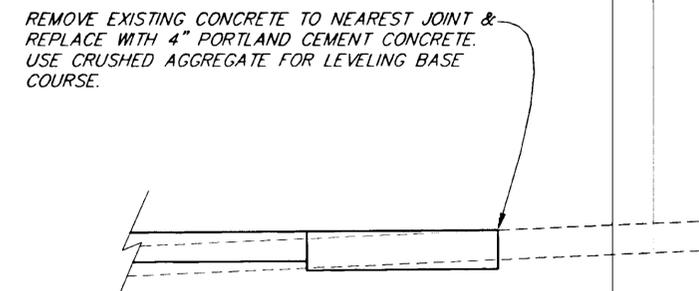
**SECTION E  
DEPRESSED CURB & RAMP**



**GRAVEL WALKWAY**



**ASPHALT WALKWAY**



**CONCRETE WALKWAY**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\72089\DR\-DETAIL2		
PLOT: P:\-LIB\-PLOT\PL0TF.PCP(1) OR PLOTH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

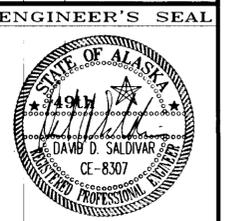
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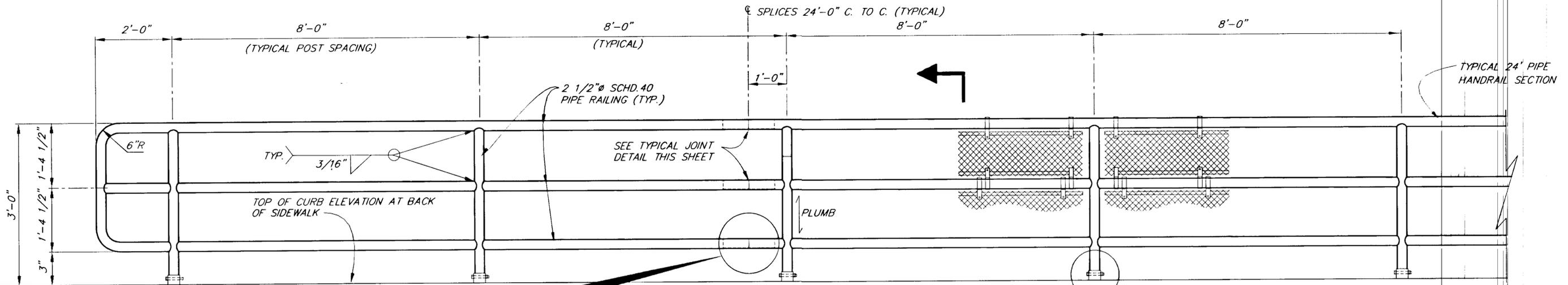
KTN-THIRDAVENUE RECONSTRUCTION  
PROJECT NO. STP-0003 (4B) ~ 72089  
**SIDEWALK AND CURB CUT DETAILS**

ALASKA

DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
K. KLEMMETSON  
CHECKED BY:  
D. SALDIVAR

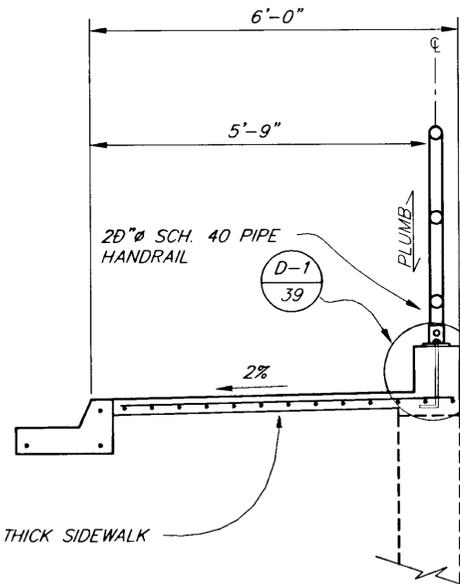
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72089  
DATE:  
4/9/98  
SHEET 40 OF 84



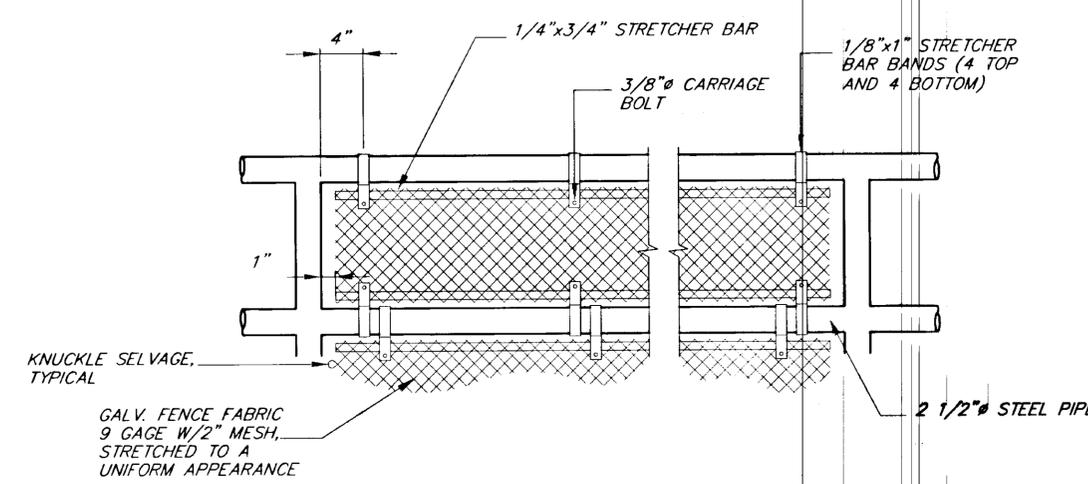


**PIPE HANDRAIL DETAILS**

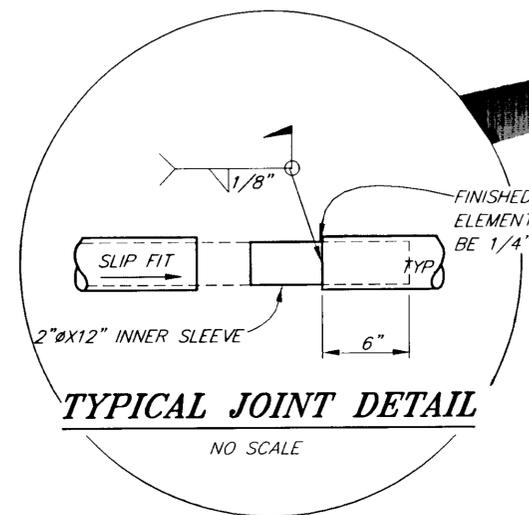
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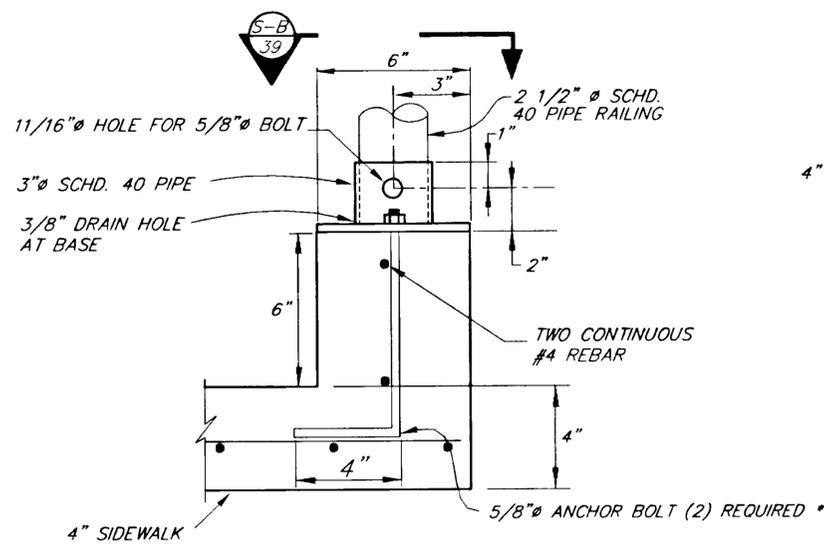
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**TYPICAL RAILING FENCE DETAIL** ④

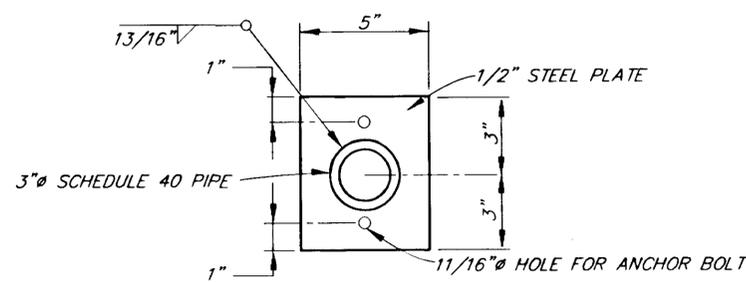


**TYPICAL JOINT DETAIL**  
NO SCALE



**DETAIL 1**

\* CONTRACTOR HAS THE OPTION OF FIELD DRILLING HOLES AND SECURING THE BASE WITH 6" x 8" ANCHOR BOLTS ANCHOR BOLT HOLES SHALL HAVE EPOXY.



**SECTION B**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\72089\DR\ -DETS	
PLOT: P:\-LIB\ -PLOT\ PLOT.F.PCP(1) OR PLOT.F.PCP(2)	
BY:	DATE: DESCRIPTION OF CHANGE:
RECORD OF REVISIONS	

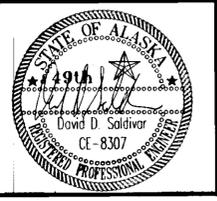
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

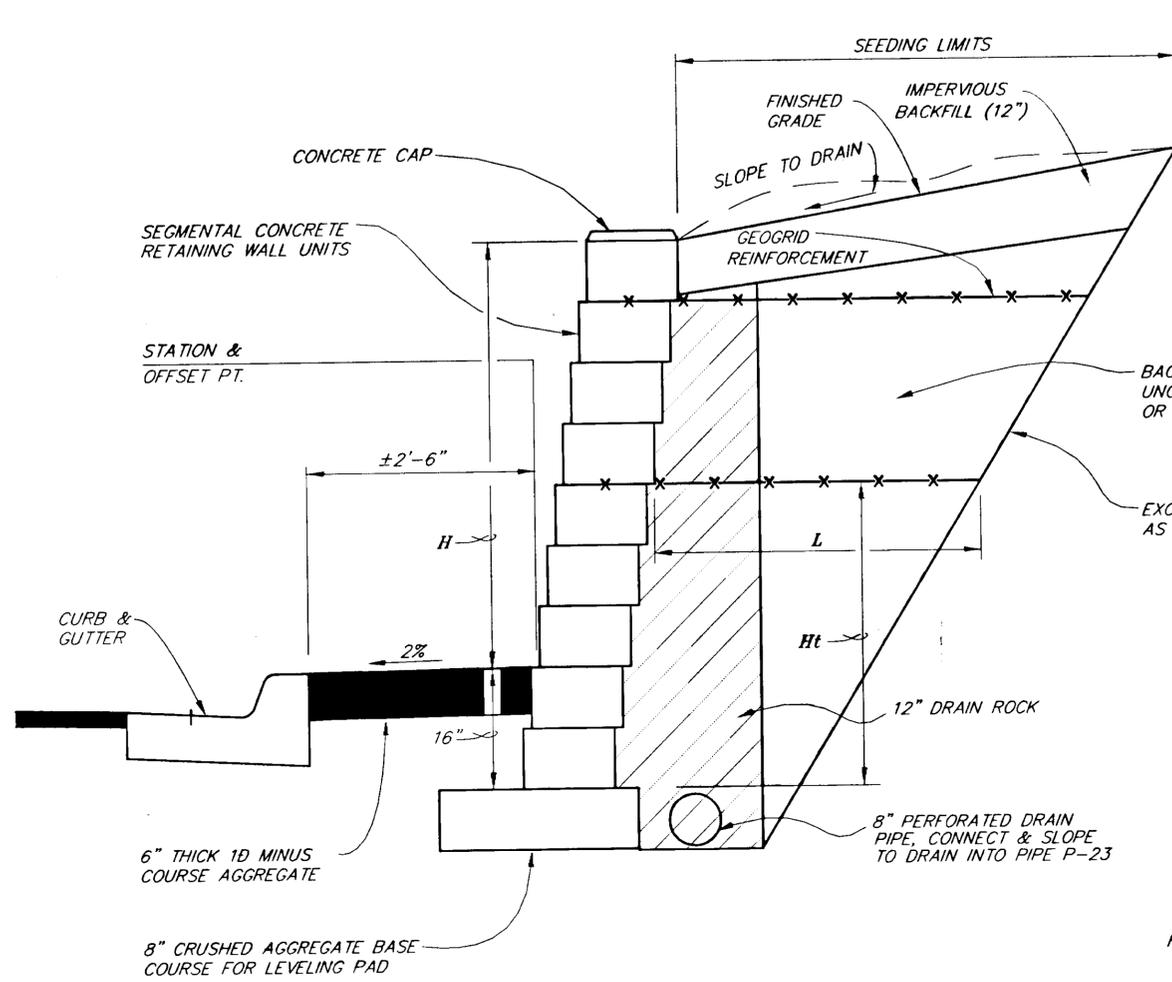
KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(AB) ~ 72089  
**PIPE HANDRAIL DETAILS**

ALASKA

DESIGNED BY: M. SHEELER  
DRAWN BY: C. ANDERSON  
CHECKED BY: D. SALDIVAR

PROJECT NO. 72089  
DATE: 4/9/98  
SHEET 41 OF 84





**SEGMENTAL CONCRETE  
RETAINING WALL DETAIL**

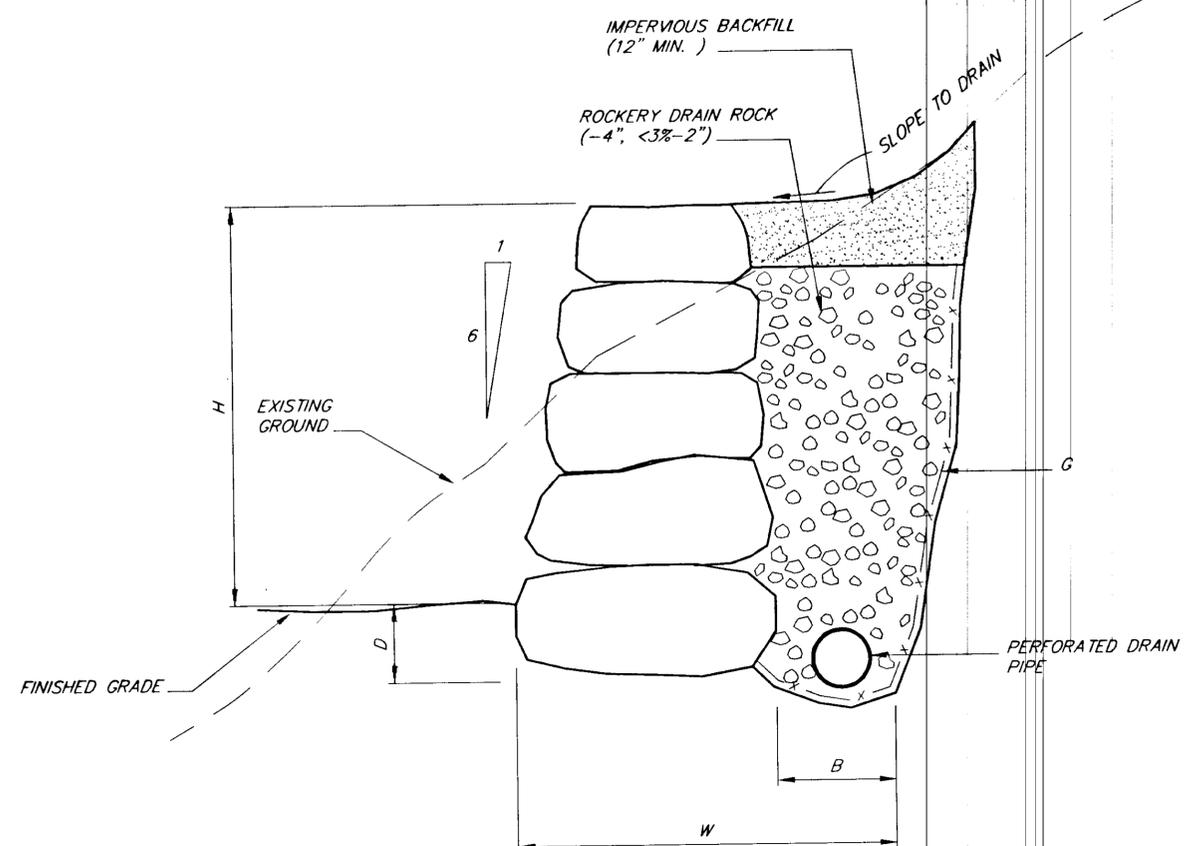
<b>GEOGRID REINFORCEMENT</b>			
H FEET	GEOGRID LAYERS	Ht FEET	L FEET
2 OR LESS	0	2	-
2-4	1	2	4
4-6	2	2,4	4
6-8	3	2,4,6	5
8-10	4	2,4,6,8	6
10-12	5	2,4,6,8,10	7

**ROCKERY WALL**

- H = HEIGHT AT WALL FROM GROUND SURFACE TO TOP OF THE TOP ROW OF ROCKS (6" MAXIMUM).
- D = DEPTH OF BURIAL OF LOWEST ROW OF ROCKS (D=1/2 THE ROCK) COURSE THICKNESS, OR 12" MINIMUM.
- B = WIDTH OF BACKFILL MATERIAL AT THE FIRST ROCK COURSE LEVEL (12" MINIMUM).
- W = WIDTH OF THE WALL (B+THE LENGTH OF THE LOWER ROCKS).
- G = INSTALL SEPARATION GEOTEXTILE AGAINST THE SOIL CUT SURFACE IN SEEPAGE IS ANTICIPATED.
- S = THE MEDIAN DIAMETER OF THE ROCKS IN THE LOWEST ROW (SEE TABLE BELOW).

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

	MEDIAN DIMENSION	APPROXIMATE WEIGHT
TOP 3 FT. OF WALL	12" TO 20"	100-600 LBS.
3 TO 6 FT. FROM TOP OF WALL	20" TO 28"	600-1500 LBS.
6 TO 9 FT. FROM TOP OF WALL	28" TO 36"	1500-3500 LBS.
9 TO 12 FT. FROM TOP OF WALL	36" TO 48"	3500-4000 LBS.



**TYPICAL ROCKERY WALL**

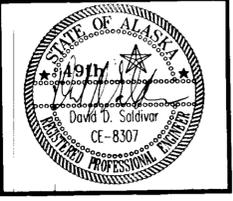
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

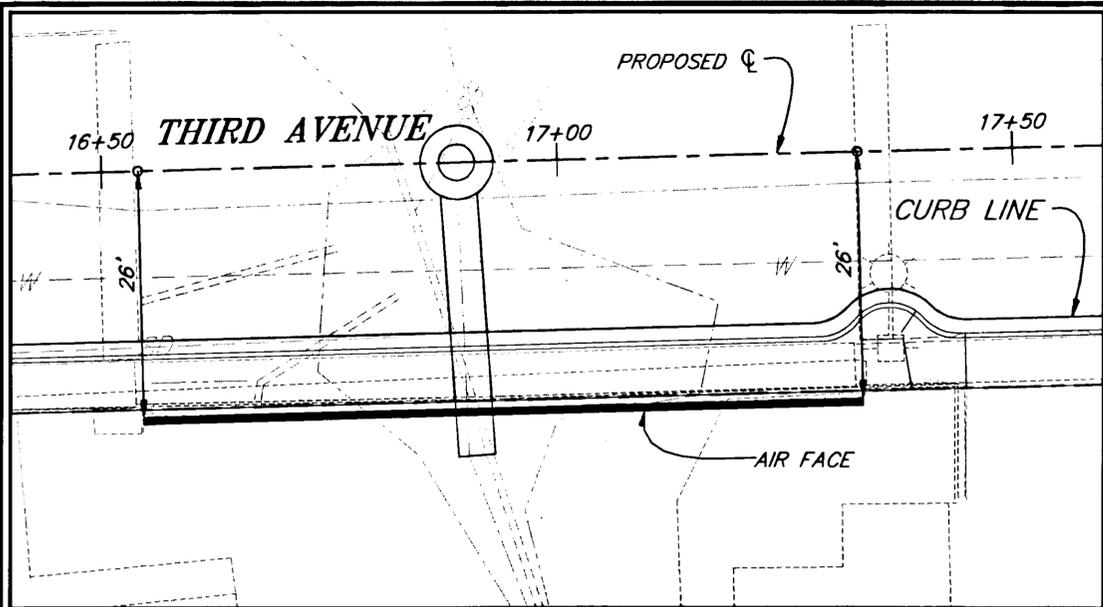
PATH: P:\KTN\72089\DR\DET WALL	<b>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION DESIGN &amp; CONSTRUCTION</b>	<b>SEGMENTAL CONCRETE &amp; ROCKERY RETAINING WALL DETAILS</b>	DESIGNED BY: M. SHEELER	PROJECT NO. 72089
PLOT: P:\-LIB\ -PLOT\ PLOT.PCP(1) OR PLOT.PCP(2)			DRAWN BY: K. SNYDER	DATE: 4/9/98
BY:			CHECKED BY: D. SALDIVAR	SHEET 42 OF 84
DATE:				

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

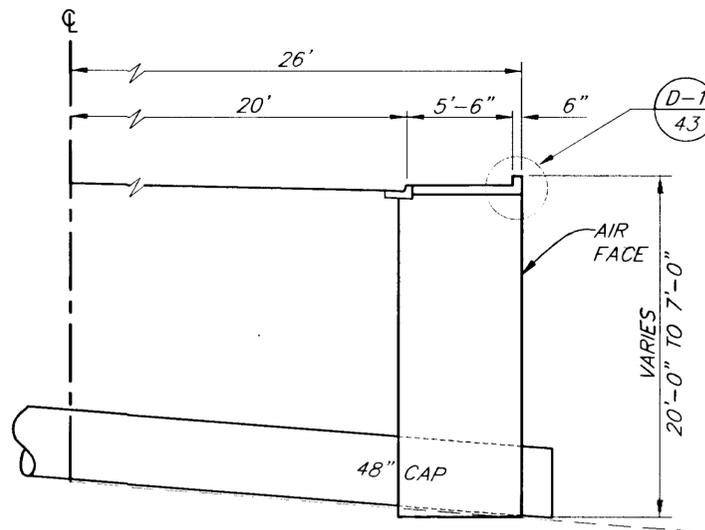
KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
ALASKA  
STP-0003(4B) ~ 72089

DESIGNED BY:  
M. SHEELER  
DRAWN BY:  
K. SNYDER  
CHECKED BY:  
D. SALDIVAR





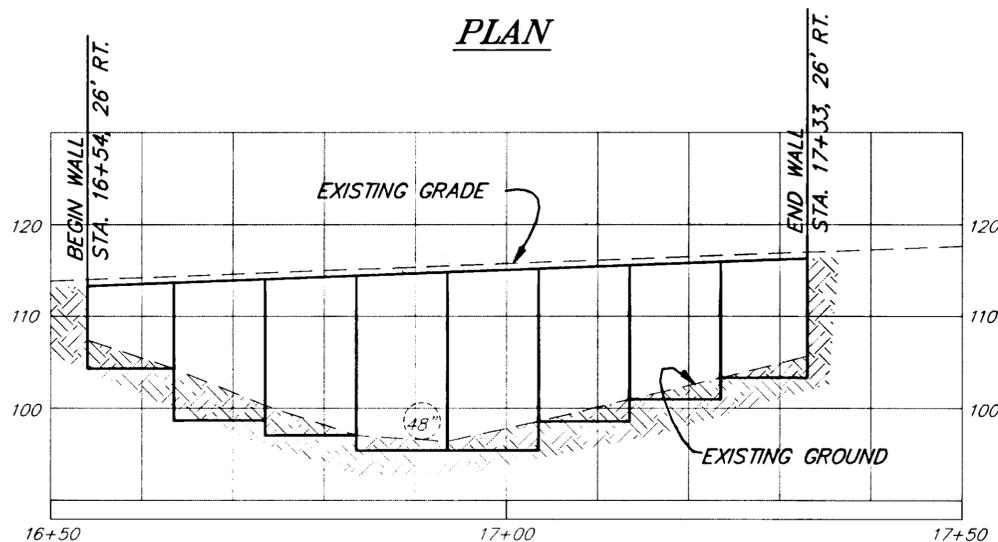
**PLAN**



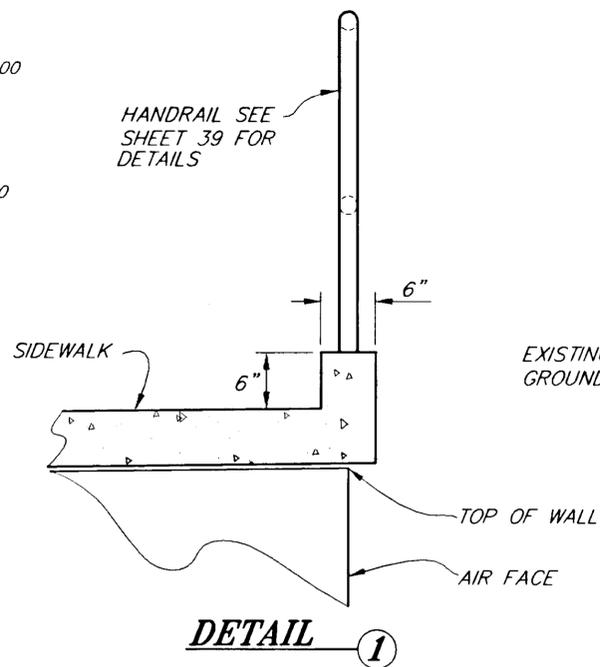
**TYPICAL SECTION  
BIN WALLS**  
N.T.S.

**GENERAL NOTES**

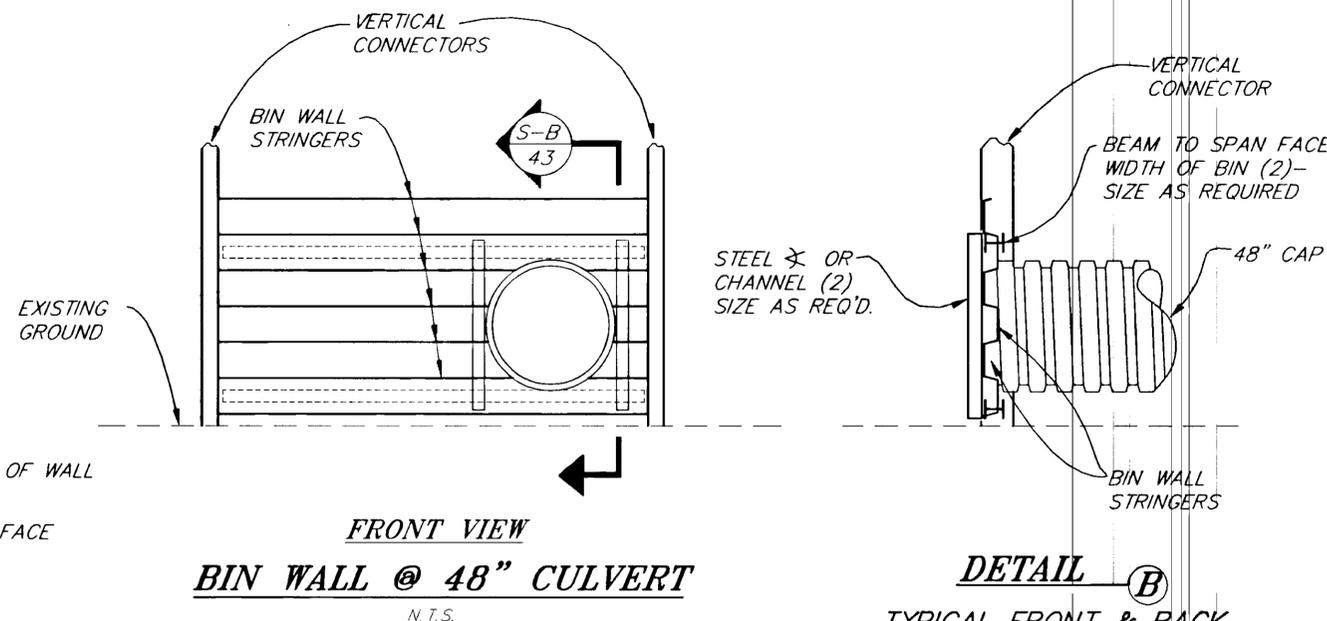
1. STATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MUST BE FIELD CORRECTED.
2. THE LOCATION AND LENGTH OF THE 48" C.A.P. MAY VARY.
3. ALL PLANS, DETAILS AND SHOP DRAWINGS, REGARDING THE RETAINING WALL, MUST BE REVIEWED BY THE ENGINEER.



**PROFILE**



**DETAIL 1**



**FRONT VIEW  
BIN WALL @ 48" CULVERT**  
N.T.S.

**DETAIL B  
TYPICAL FRONT & BACK**  
N.T.S.

RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

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

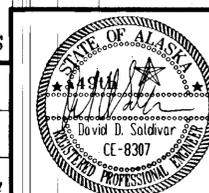
KETCHIKAN

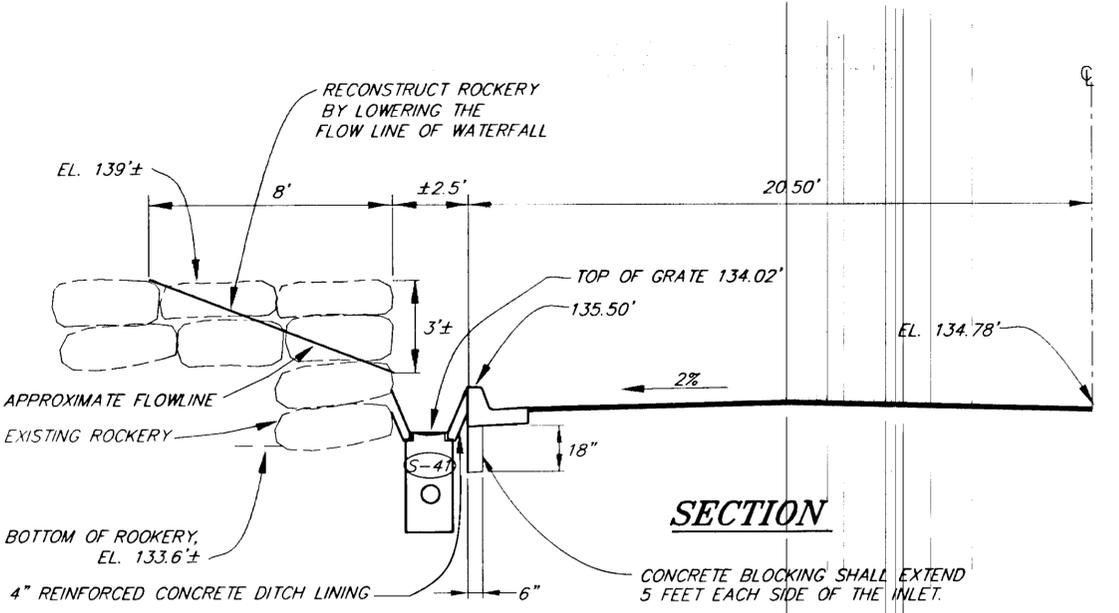
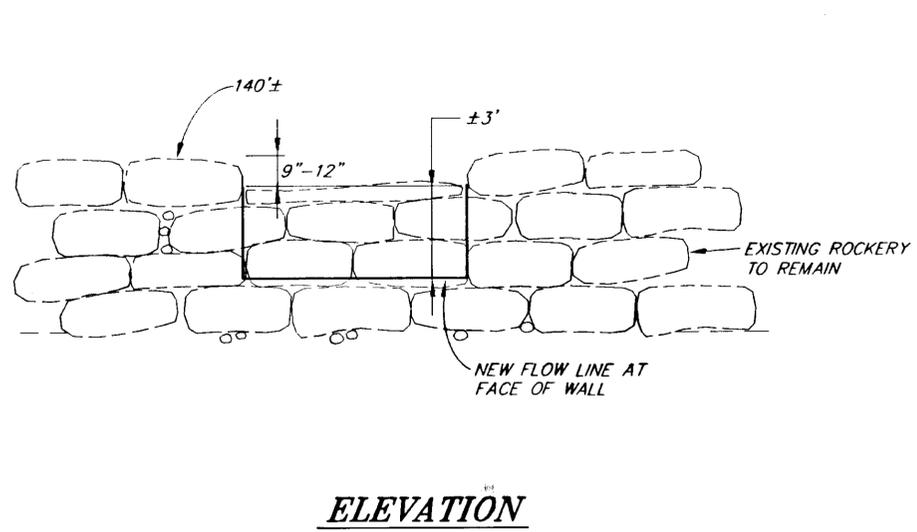
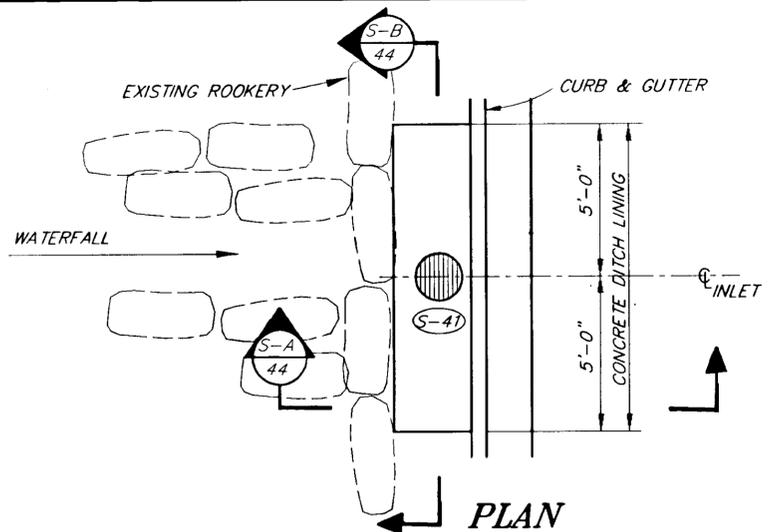
KETCHIKAN THIRD AVENUE  
RECONSTRUCTION  
FED. NO. STP-0003 (48) ~ PROJECT NO. 72089  
**BIN WALL LAYOUT & DETAILS**

ALASKA

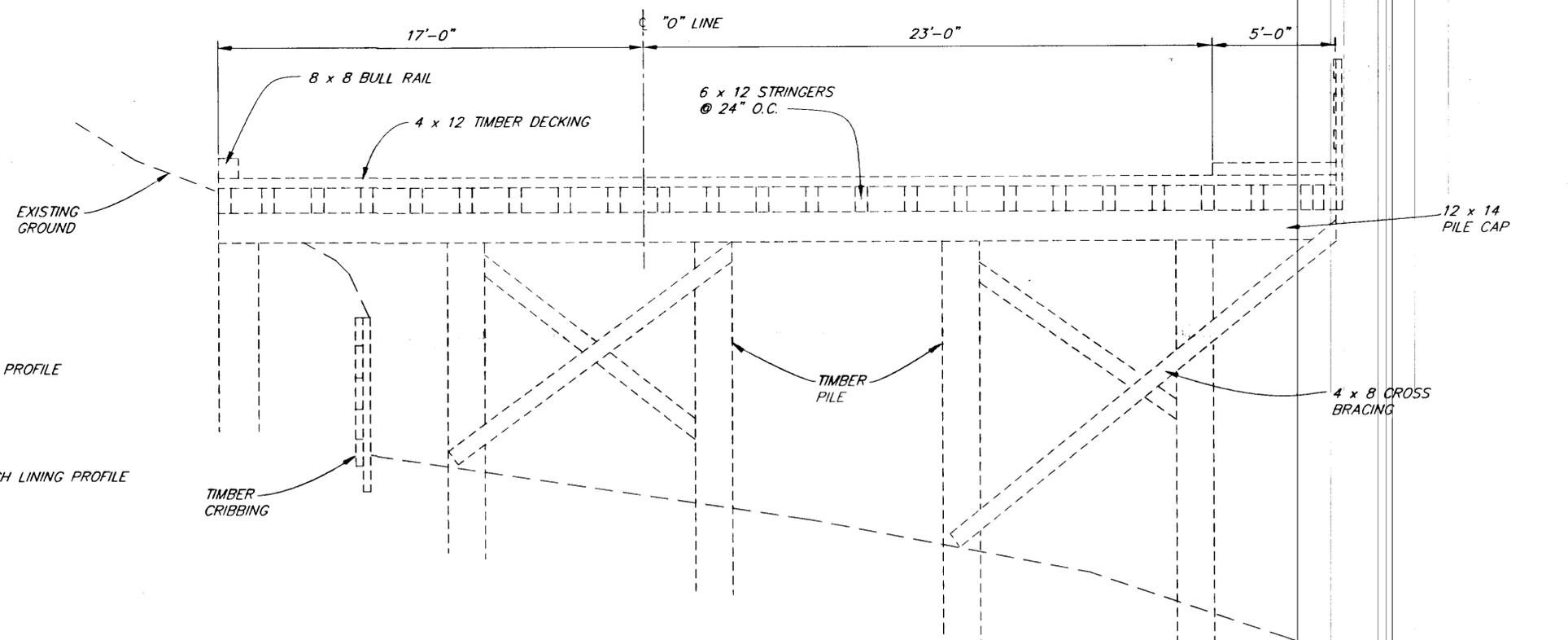
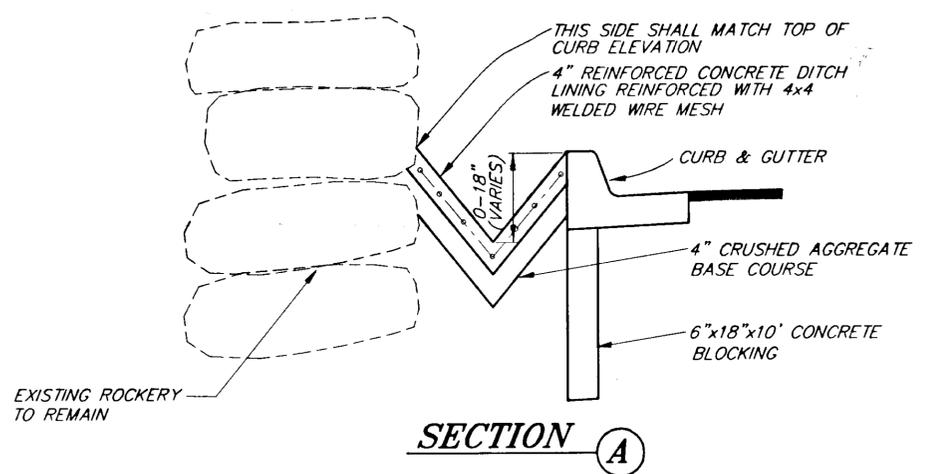
DESIGNED BY: D. SALDIVAR	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/9/88
CHECKED BY: D. SALDIVAR	SHEET 43 OF 84

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

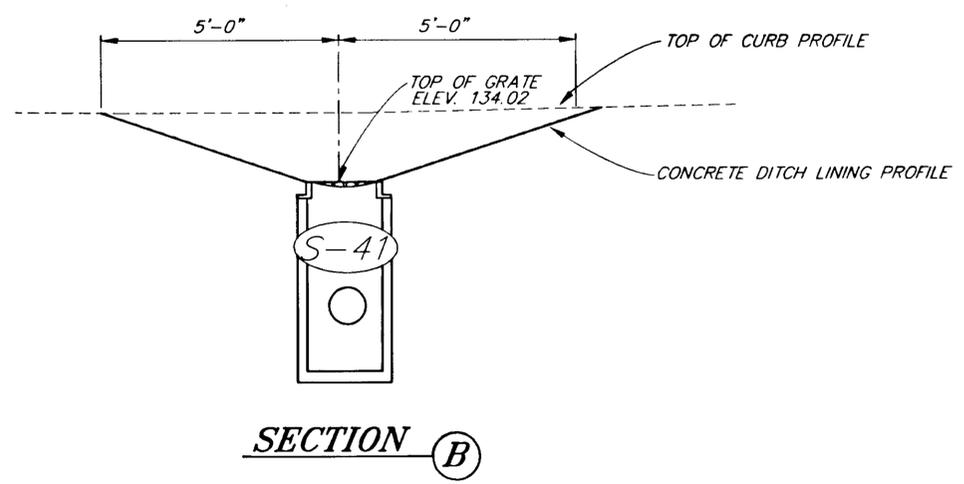




**WATERFALL RECONSTRUCTION**



**STA. "0" 16+53.95 TO STA. "0" 17+32.46  
TIMBER BRIDGE AS-BUILT**

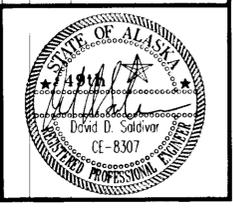


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PLOT: P: \-LIB\-PLOT\LOT.PCP(3) OR PLOT.PCP(6)	
BY:	DATE: DESCRIPTION OF CHANGE:
RECORD OF REVISIONS	

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

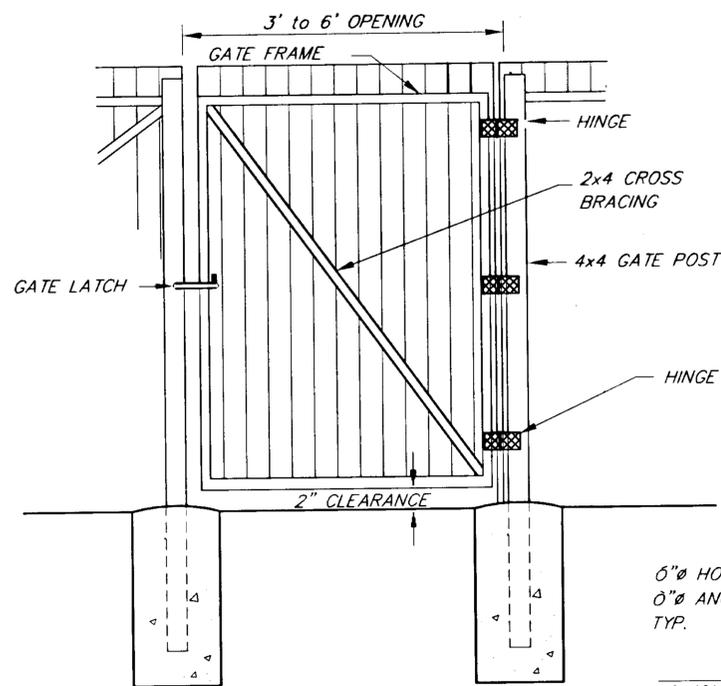
KETCHIKAN  
KTN-THIRD AVENUE RECONSTRUCTION  
STP-0003(48) ~ 72089  
ALASKA  
**MISCELLANEOUS DETAILS**

DESIGNED BY: D. SALDIVAR	PROJECT NO. 72089
DRAWN BY: K. SNYDER	DATE: 4/9/98
CHECKED BY: D. SALDIVAR	SHEET 44 OF 84

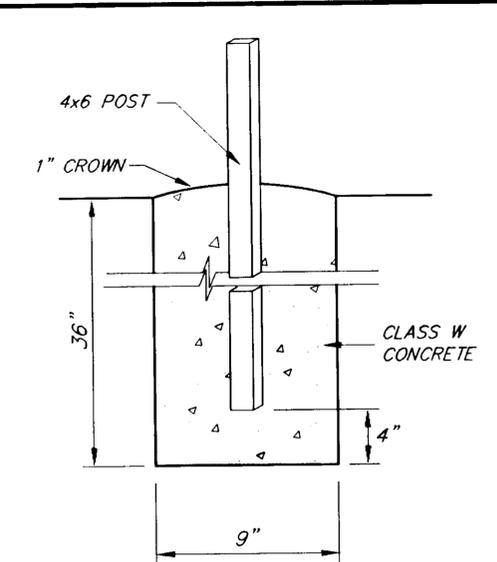


**GENERAL NOTES**

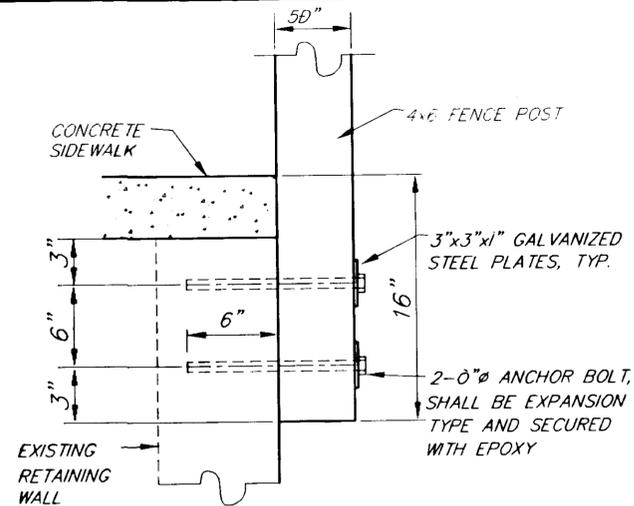
1. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 8 FEET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. SUPPORTS AND BRACES SHALL BE SECURELY FASTENED TO POST WITH TRUSS BANDS.
3. WOOD FENCING SHALL BE PRESSURE TREATED WITH CCA TO 0.4 PCF RETENTION.
4. SURFACES SHALL BE SMOOTH AND UNIFORM IN APPEARANCE.
5. LINE POST SHALL BE SET IN CONCRETE UNLESS SHOWN OTHERWISE ON THE PLANS.
6. DETAILS SHOWN ARE TO INDICATE GENERAL DESIGN ONLY. DIMENSIONS MAY VARY SLIGHTLY.
7. GATE PRODUCT SHALL BE OF THE SAME DESIGN AND HEIGHT OF LINE FENCE PRODUCT.
8. LATCHES SHALL OPERATE FROM BOTH SIDES. THE GATE SHALL AUTOMATICALLY SWING SHUT AND LATCH.
9. CONCRETE FOOTINGS SHALL BE CLASS W CONCRETE.
10. CONCRETE FOOTINGS SHALL BE OF THE SAME DEPTH AS END POSTS FOR GATE POSTS.
11. GATE FRAME, HINGES, LATCHES AND OTHER GATE APPURTENANCES SHALL BE HOT DIPPED GALVANIZED AND OF SUFFICIENT STRENGTH.
12. IF WOOD OR CHAIN LINK FENCING IS TO BE CONSTRUCTED AT RETAINING WALL LOCATIONS, THE CONTRACTOR SHALL UTILIZE THE SUPPORT METHOD AS DETAILED ON THIS SHEET.



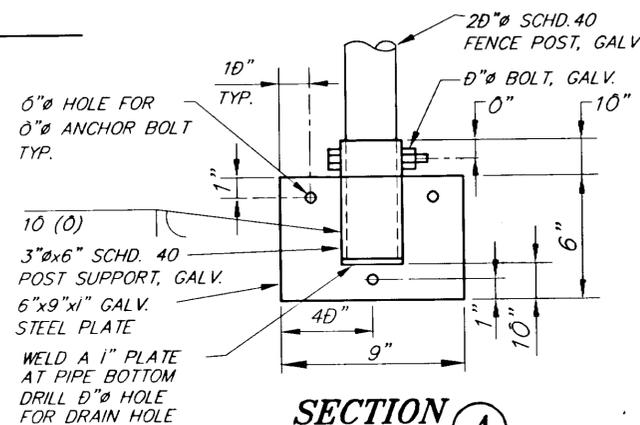
**PEDESTRIAN GATE**



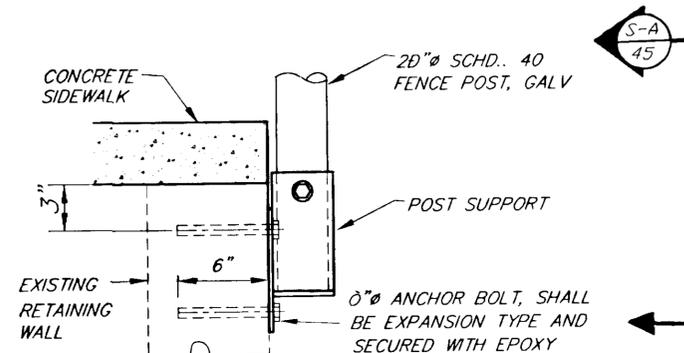
**CONCRETE POST SETTING**



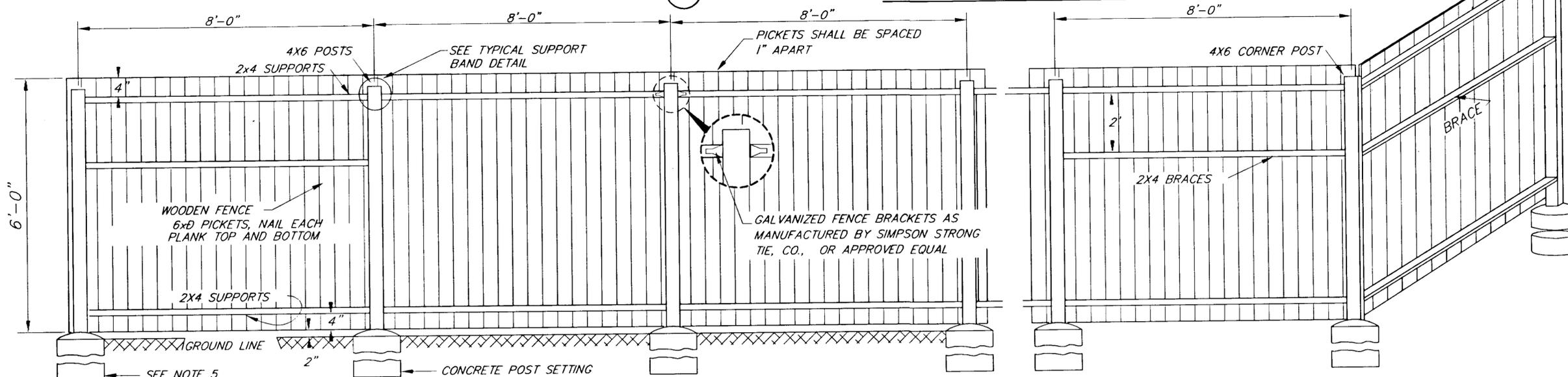
**POST MOUNTING DETAIL AT RETAINING WALL**



**SECTION A**



**POST MOUNTING DETAIL AT RETAINING WALL**



**TYPICAL FENCE SECTION**

**TYPICAL BRACE POST**

**TYPICAL CORNER OR TERMINAL POST**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\72089\DR\FENCE		
PLOT: P:\LIB\LOT\LOT.F.PCP(1) OR PLOT.F.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

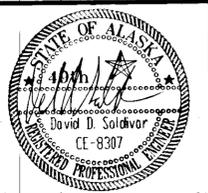
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

KETCHIKAN THIRD AVENUE  
RECONSTRUCTION  
ALASKA  
FED. NO. STP-0003 (48) ~ PROJECT NO. 72089  
**FENCE DETAILS**

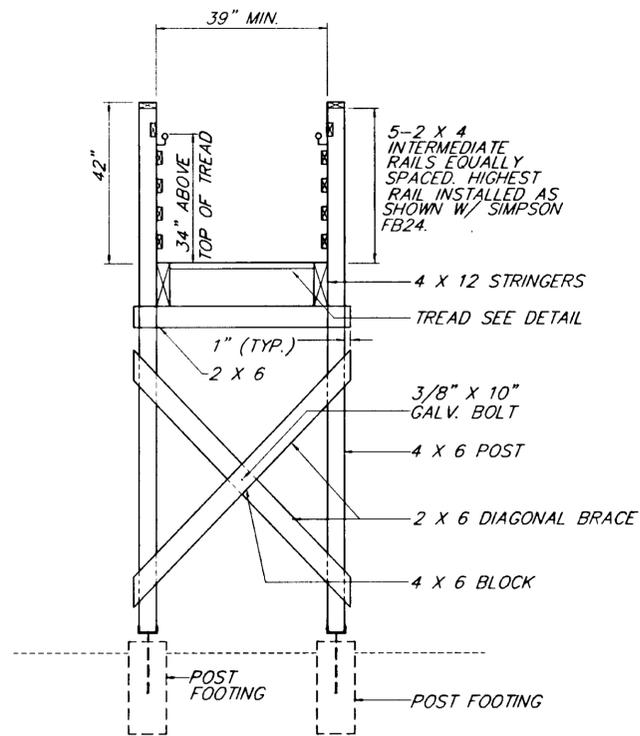
DESIGNED BY: D. SALDIVAR  
DRAWN BY: G. OLIVER  
CHECKED BY: D. SALDIVAR

PROJECT NO. 72089  
DATE: 4/1/82  
SHEET 45 OF 84

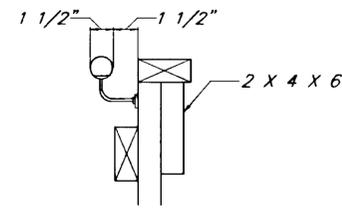


**NOTES:**

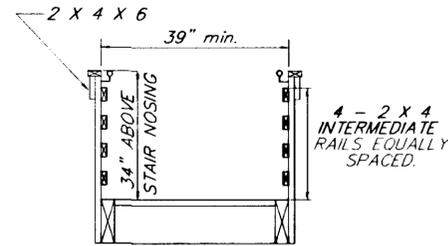
1. STAIRWAY AND LANDING TREAD SHALL BE STEEL GRATING 1" X 3/16" BEARING BARS AND 1/4" CROSS BARS, RYERSON 19W4, OR EQUAL.
2. POST BASES SHALL BE GALVANIZED, SIMPSON EPB 44A OR EQUAL.
3. DIAGONAL BRACING TO INTERIOR SUPPORT 1/2" X 6" LAG SCREWS (2) EACH TREADS TO STRINGERS 3/8" X 3" LAG SCREWS (2) EACH SIDE 4 X 6 POST TO STRINGER 1/2" X 8" BOLTS (2) EACH 4 X 6 TO POST BASE Simpson Strong Tie, Co. EPB44A ALL OTHER CONNECTIONS SHALL BE MADE WITH GALVANIZED FASTENINGS IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. WASHERS SHALL BE USED ON ALL BOLTS NOT BEARING ON METAL.
4. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A-153.
5. ALL WOOD SHALL BE TREATED WITH ACA OR CCA IN ACCORDANCE WITH LP-22. RETENTION OF THE DRY SALT SHALL BE A MINIMUM OF 0.5 LBS. PER CUBIC FOOT. LUMBER SHALL BE HEM-FIR, NO. 2 AND BETTER.
6. FOOTINGS SHALL BE ON UNDISTURBED EARTH AND A MINIMUM OF 32" BELOW THE SURFACE, EXCEPT BEDROCK FOOTINGS.
7. STEEL TUBE RAILING SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM-A-53-GRADE B. ALL JOINTS SHALL BE MADE WITH CONCEALED BUTT JOINT CONNECTORS, OR WELDED AND REGALVANIZED IN CONFORMANCE WITH AASHTO M 36.



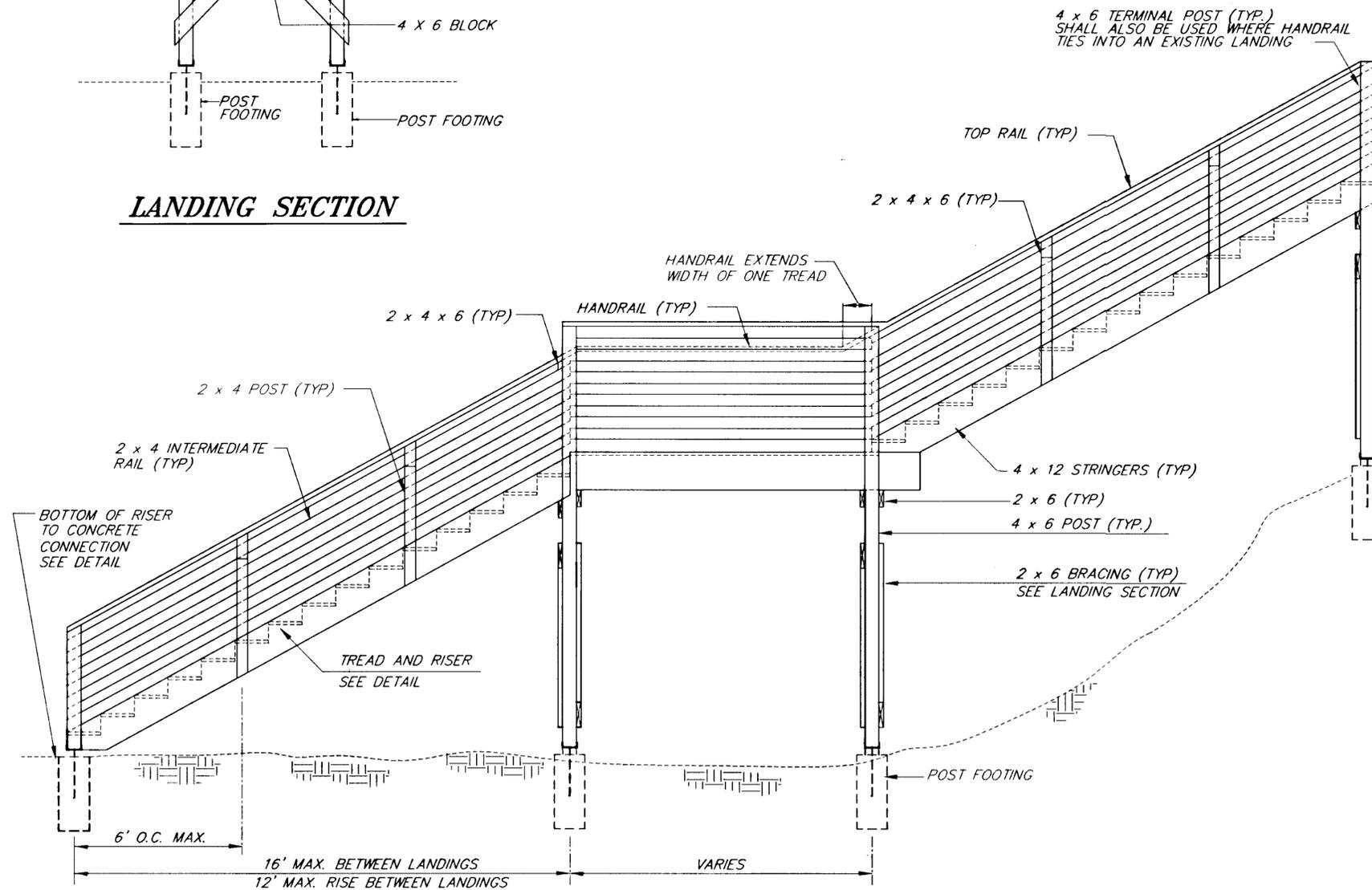
**LANDING SECTION**



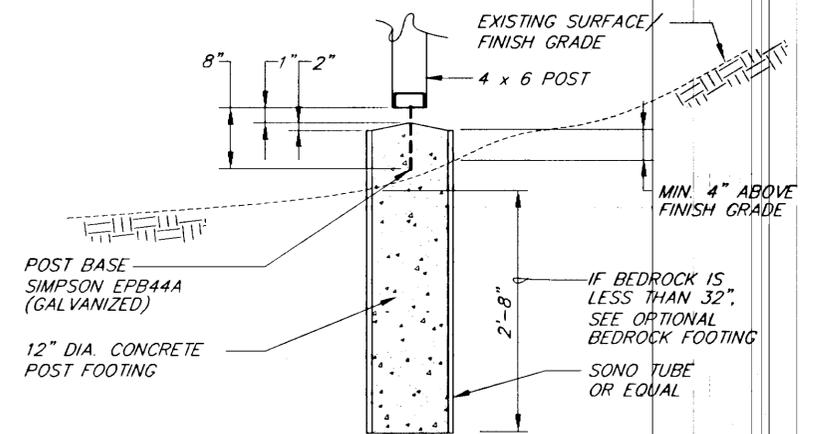
**HANDRAIL DETAIL**



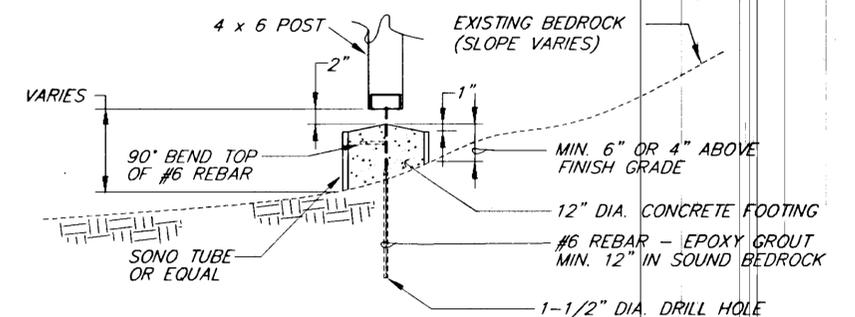
**STAIRWAY SECTION**



**TYPICAL STAIRWAY PROFILE**



**STAIRWAY POST FOOTING**



**OPTIONAL BEDROCK FOOTING**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	P:\KTN\72089\DR\STAIR1.DWG	
PLOT:	P:\-LIB\-PLOT\PLOT.PCP(2) OR PLOT.PCP(4)	
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

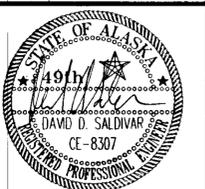
KETCHIKAN

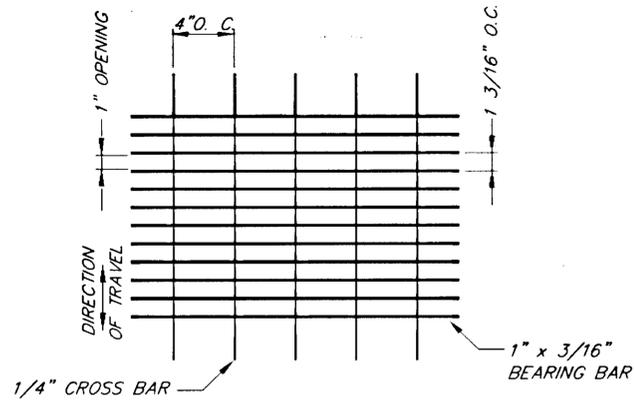
KTN-THIRD AVE. RECONSTRUCTION  
 STP-0003(48) ~ PROJECT NO. 72089

ALASKA

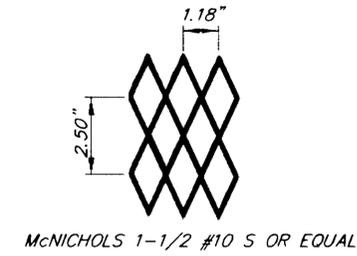
**STAIRWAY RECONSTRUCTION**

DESIGNED BY:	D. SALDIVAR	PROJECT NO.	72089
DRAWN BY:	K. KLEMMETSON	DATE:	4/9/98
CHECKED BY:	D. SALDIVAR	SHEET	46 OF 84

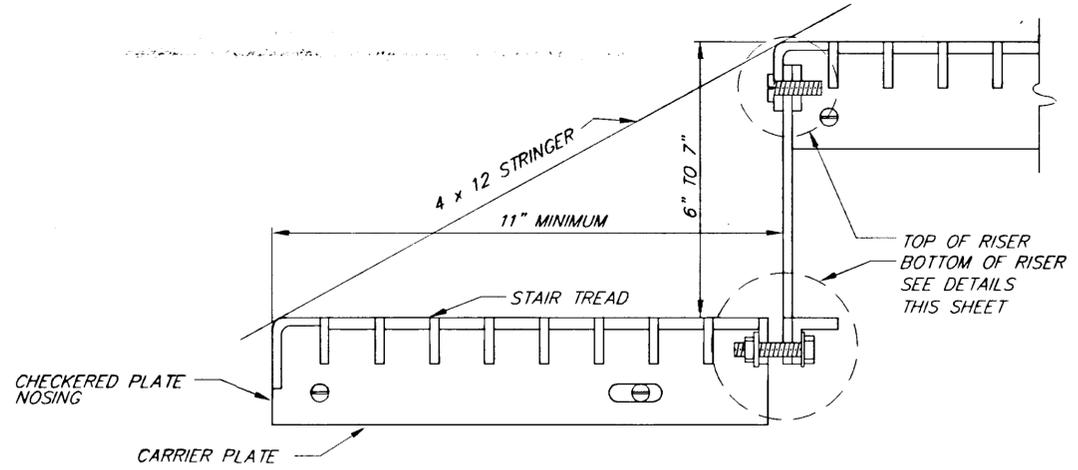




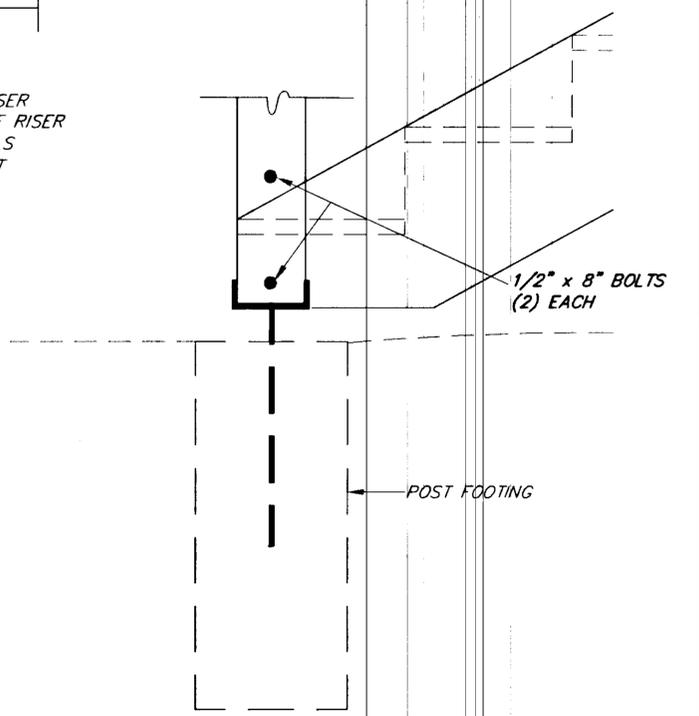
**STAIR TREAD**



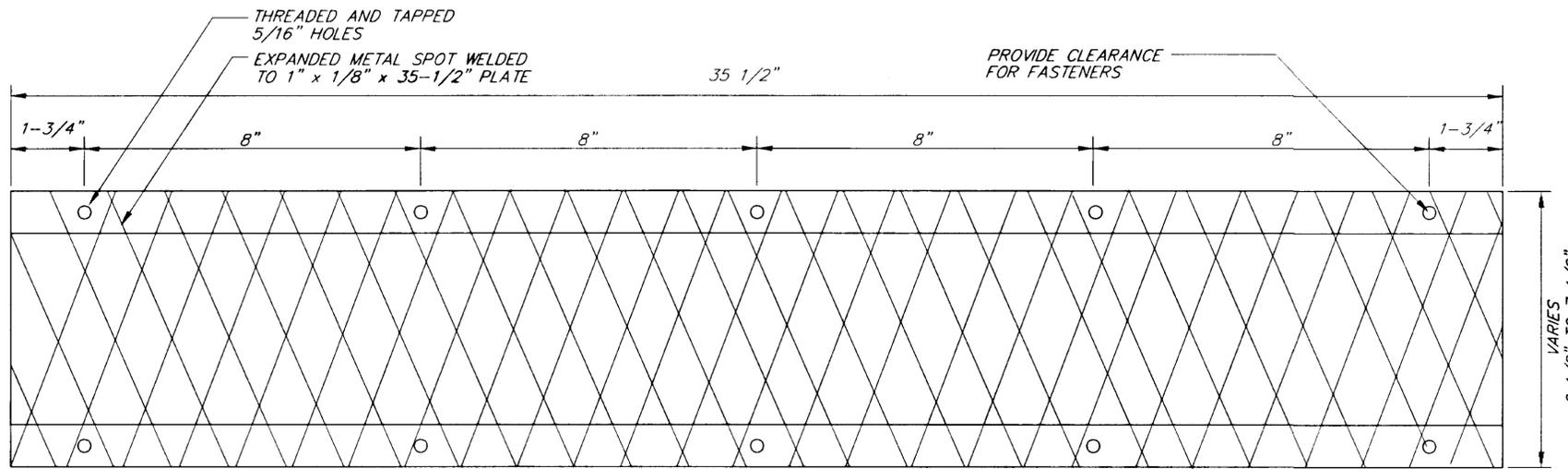
**EXPANDED METAL RISER**



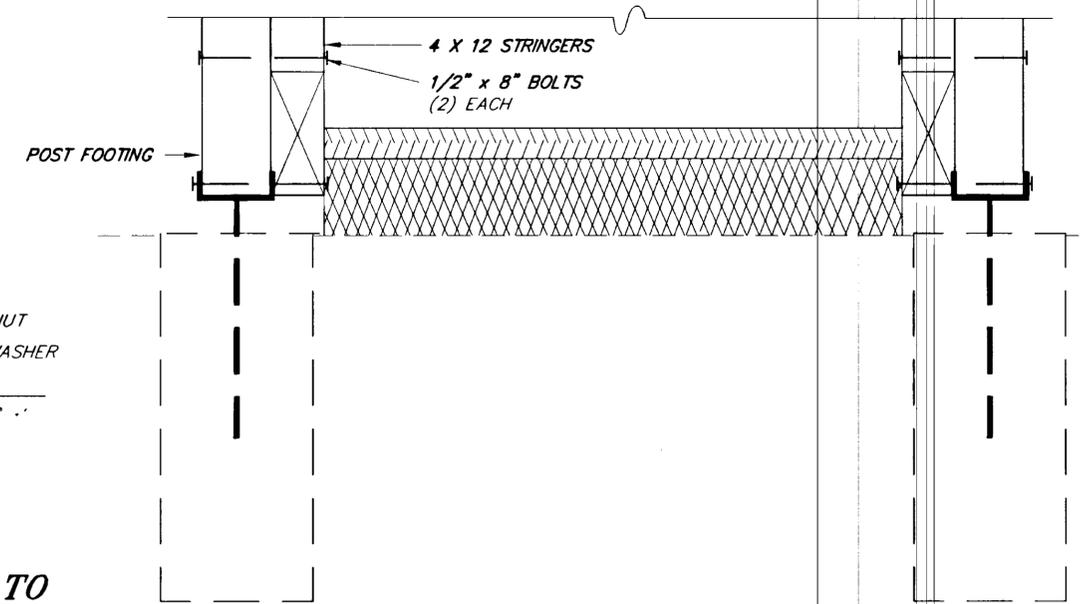
**TREAD AND RISER PROFILE**



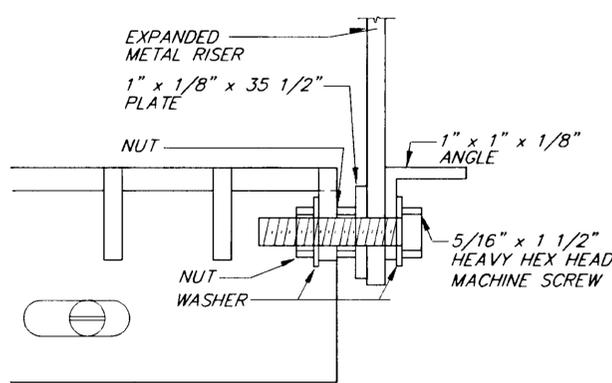
**BOTTOM OF STAIRWAY PROFILE**



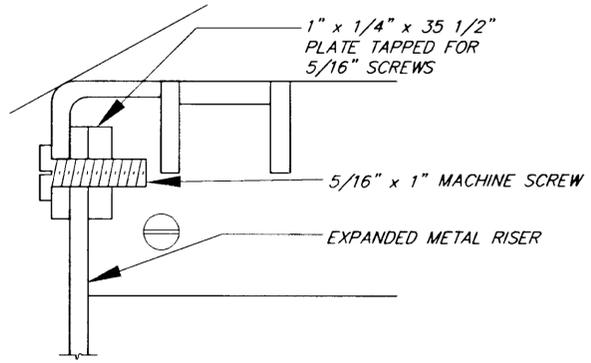
**ADJUSTABLE HEIGHT RISER**



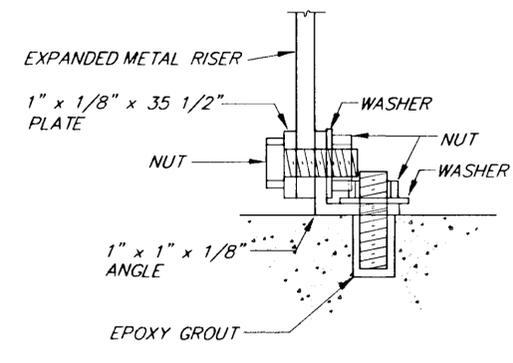
**BOTTOM OF STAIRWAY SECTION**



**TYPICAL BOTTOM OF RISER**



**TYPICAL TOP OF RISER**



**BOTTOM RISER TO CONCRETE CONNECTION**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

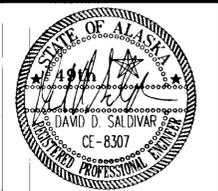
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PLOT:	P: \-LIB\ -PLOT\ PLOT.PCP(2) OR PLOT.PCP(4)
BY:	DATE: DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>	

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

KETCHIKAN  
KTN-THIRD AVE. RECONSTRUCTION  
STP-0003(48) ~ PROJECT NO. 72089  
ALASKA  
**STAIRWAY RECONSTRUCTION**

DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
K. KLEMMETSON  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
72089  
DATE:  
4/9/98  
SHEET 47 OF 84







# BASIS OF CONTROL

## HORIZONTAL CONTROL:

THE PROJECT BASIS OF HORIZONTAL CONTROL IS THE BEARING ON N 35d31'58" W FROM DOT&PF CONTROL POINT DS-15 TO CONTROL POINT DS-14. THESE TWO CONTROL POINTS ARE 51 mm ALUMINUM CAPS ON 16 mm REBAR GROUTED FLUSH WITH THE PAVEMENT ON SOUTH TONGASS HIGHWAY.

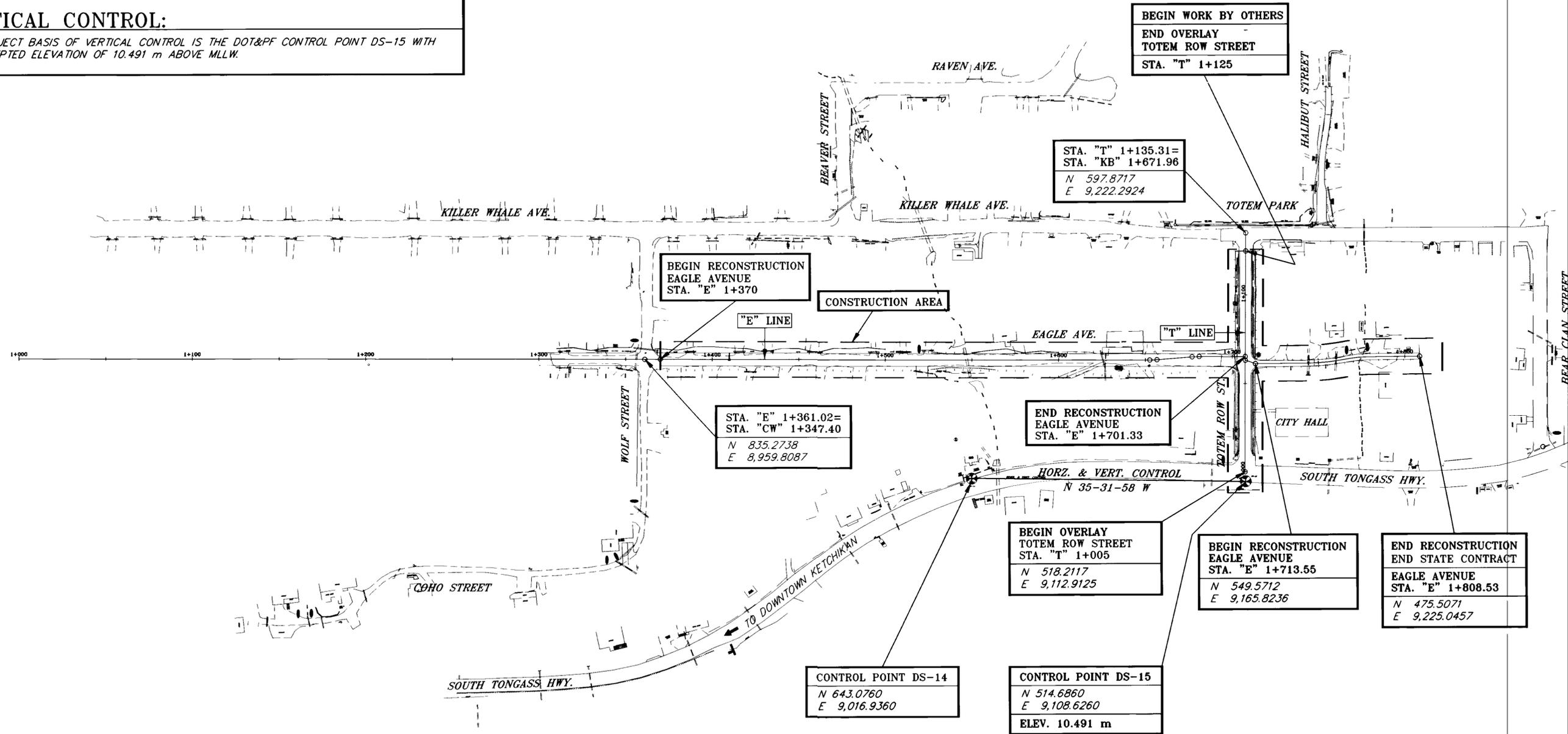
THE PROJECT BASIS OF COORDINATES IS DOT&PF CONTROL POINT DS-15 WITH LOCAL COORDINATES OF N. 514.6860, E. 9,108.6260.

## VERTICAL CONTROL:

THE PROJECT BASIS OF VERTICAL CONTROL IS THE DOT&PF CONTROL POINT DS-15 WITH AN ACCEPTED ELEVATION OF 10.491 m ABOVE MLLW.

**NOTE:**

THERE IS ON-GOING CONSTRUCTION WORK BY OTHERS ON OTHER STREETS. CONTRACTOR SHALL MAINTAIN AND SCHEDULE WORK TO AVOID OR MINIMIZE CONFLICTS.



BEGIN RECONSTRUCTION  
EAGLE AVENUE  
STA. "E" 1+370

BEGIN WORK BY OTHERS  
END OVERLAY  
TOTEM ROW STREET  
STA. "T" 1+125

STA. "T" 1+135.31=  
STA. "KB" 1+671.96  
N 597.8717  
E 9,222.2924

STA. "E" 1+361.02=  
STA. "CW" 1+347.40  
N 835.2738  
E 8,959.8087

END RECONSTRUCTION  
EAGLE AVENUE  
STA. "E" 1+701.33

BEGIN OVERLAY  
TOTEM ROW STREET  
STA. "T" 1+005  
N 518.2117  
E 9,112.9125

BEGIN RECONSTRUCTION  
EAGLE AVENUE  
STA. "E" 1+713.55  
N 549.5712  
E 9,165.8236

END RECONSTRUCTION  
END STATE CONTRACT  
EAGLE AVENUE  
STA. "E" 1+808.53  
N 475.5071  
E 9,225.0457

CONTROL POINT DS-14  
N 643.0760  
E 9,016.9360

CONTROL POINT DS-15  
N 514.6860  
E 9,108.6260  
ELEV. 10.491 m

STREET NAME	PLAN & PROFILE SHEET NUMBERS	TYPICAL SECTION SHEET NUMBERS
EAGLE AVE.	9 & 10	3 & 4
TOTEM ROW ST.	11	4

**LEGEND**

-  TEMPORARY DITCH BLOCK
-  SIDEWALK

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

KETCHIKAN

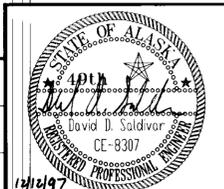
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

**PROJECT OVERVIEW**

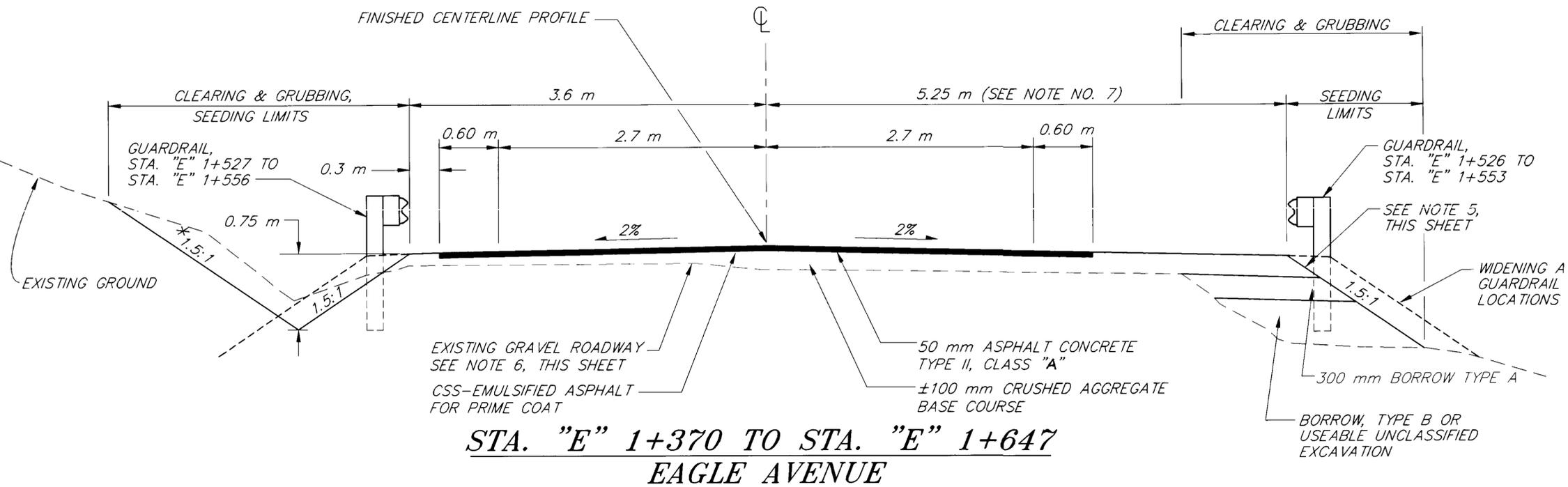
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: D. BLACKBURN	PROJECT NO. 71494
DRAWN BY: R. SNYDER	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 2 OF 24

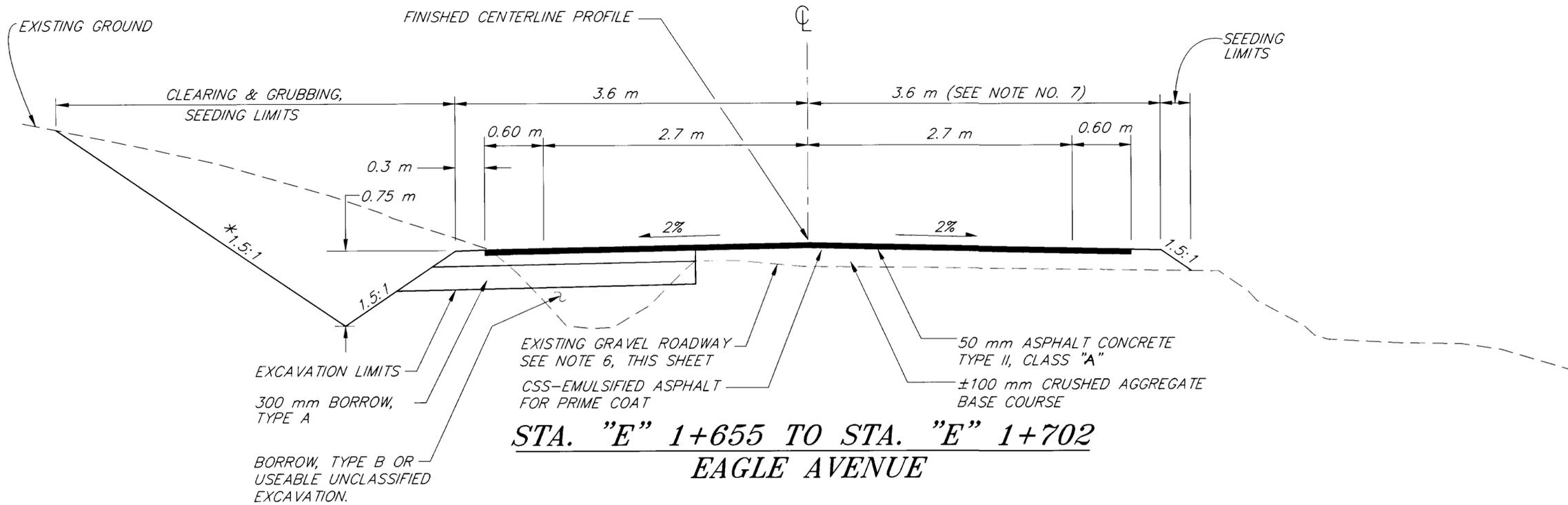


GENERAL NOTES:

1. EXISTING DITCHES SHALL BE RESHAPED AS SHOWN.
2. WHEN CONSTRUCTING INTERSECTIONS ON EAGLE AVE., THE PROFILES OF TOTEM ROW STREET & WOLF STREET SHALL BE HELD THROUGH THE INTERSECTIONS, EAGLE AVE. SHALL BE SLOPED ACCORDINGLY TO MATCH.
3. EXISTING GROUND IN FILL AREAS SHALL BE COMPACTED PRIOR TO THE PLACING OF FMBANKMENT OR BORROW.
4. ALL SLOPES REQUIRING SEEDING SHALL HAVE AT LEAST 75 mm TOPSOIL. IF BORROW MATERIAL CONSISTS OF SHOT ROCK, SEEDING AND TOPSOIL WILL NOT BE REQUIRED ALONG FILL SLOPES.
5. SEE SHEET 24 FOR RETAINING WALL AND TOE ROCK DETAILS AND LOCATION.
6. SURFACE OF EXISTING GRAVEL ROADWAY SHALL BE RECONDITION PRIOR TO PLACING BASE COURSE.
7. WIDTH SHALL TRANSITION FROM 5.25 m TO 3.6 m BETWEEN STA. "E" 1+647 AND STA. "E" 1+655.



\* BACKSLOPE MAY REQUIRE TO HAVE A STEEPER SLOPE TO STAY WITHIN THE R.O.W. OR EASEMENT BOUNDARY.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\TYPSEC5		
PLOT: P: \-LIB\-PLOT\MPL0TF.PCP(25) OR MPL0TH.PCP(50) (100:5.2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

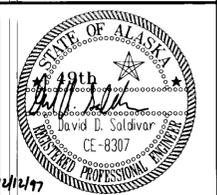
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STP-0003(26) ~ 71494

ALASKA

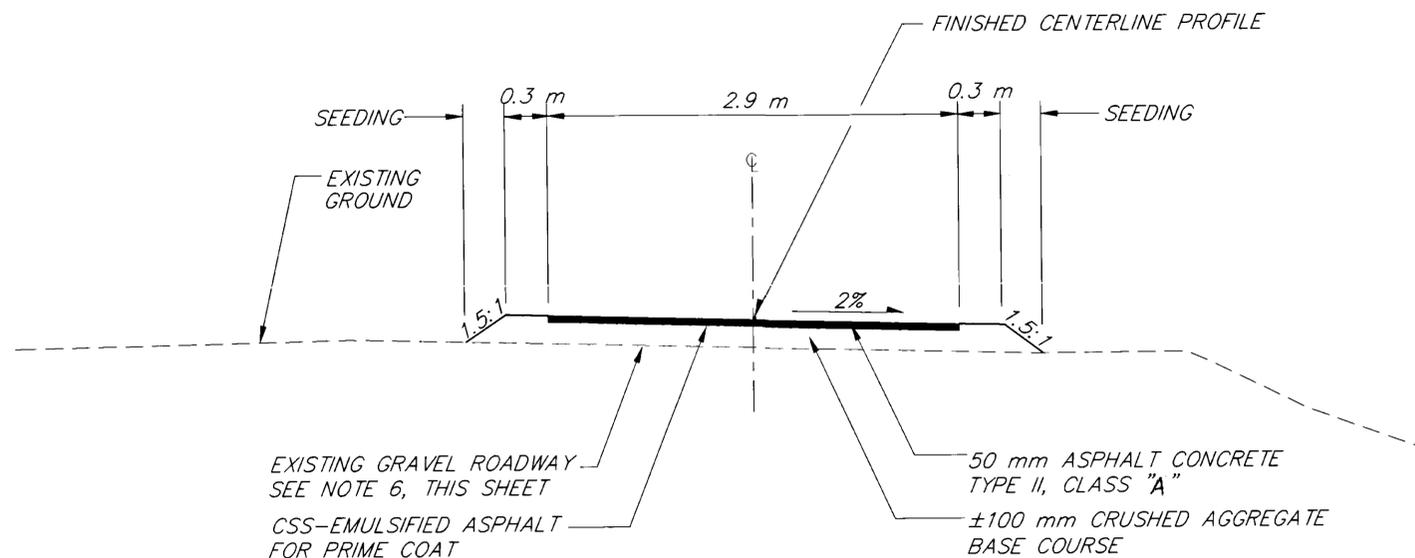
TYPICAL SECTIONS

DESIGNED BY: BLACKBURN	PROJECT NO. 71494
DRAWN BY: R. SNYDER	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 3 OF 24

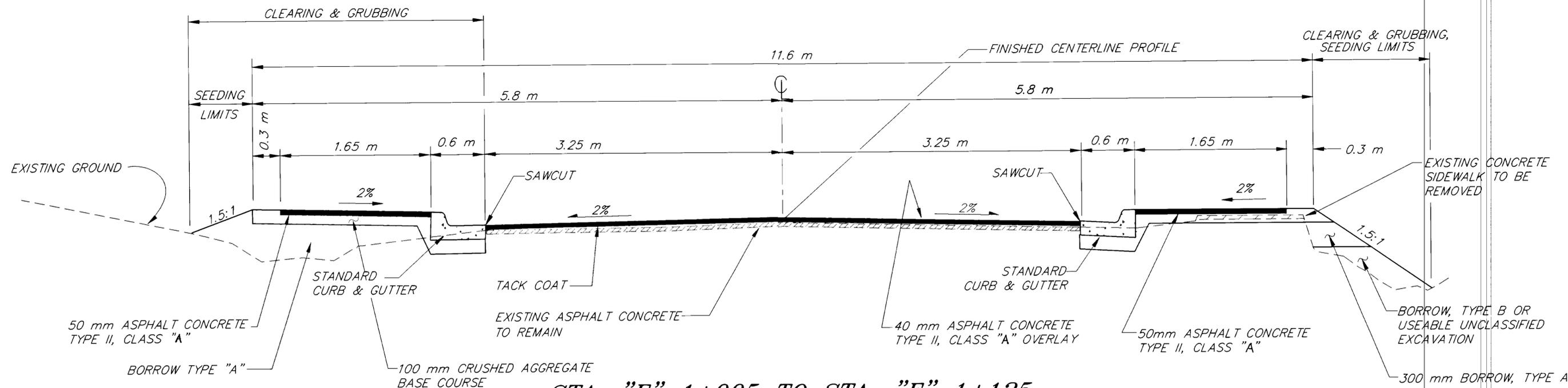


GENERAL NOTES:

1. EXISTING GROUND IN FULL AREAS SHALL BE COMPACTED PRIOR TO PLACING OF EMBANKMENT.
2. ALL SLOPES REQUIRING SEEDING SHALL HAVE AT LEAST 75 mm TOPSOIL.



**STA. "E" 1+713 TO STA. "E" 1+808  
EAGLE AVENUE**



**STA. "E" 1+005 TO STA. "E" 1+125  
TOTEM ROW STREET**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\ - TYPSEC1		
PLOT: P: \-LIB\ -PLOT\MPL0TF.PCP(25) OR MPL0TH.PCP(50)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

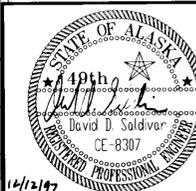
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

DESIGNED BY: BLACKBURN	PROJECT NO. 71494
DRAWN BY: B.A.	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 4 OF 24



TYPICAL SECTIONS

**ESTIMATE OF QUANTITIES - STATE**

ITEM NO.	ITEM	UNIT	QUANTITY
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D.
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQ'D.
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D.
202 (2)	REMOVAL OF PAVEMENT	SQUARE METER	<del>10</del> 11.1
202 (4)	REMOVAL OF CULVERT PIPE	METER	<del>96.5</del> 11.1
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC METER	525
203 (6)	BORROW, TYPE A	MEGAGRAM	<del>750</del> 111.1
203 (12)	ROCK BOLTS	CONTINGENT SUM	ALL REQ'D.
301 (1)	CRUSHED AGGREGATE BASE COURSE	MEGAGRAM	1370
303 (1)	RECONDITIONING	KILOMETER	<del>0.55</del> 1.1
401 (1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A	MEGAGRAM	<del>650</del> 11.1
401 (2)	<del>P&amp;S-28</del> ASPHALT CEMENT	MEGAGRAM	<del>39</del>
401 (5)	PAVEMENT PATCHING	SQUARE METER	9
403 (2)	CSS-1 EMULSIFIED ASPHALT PRIME COAT	MEGAGRAM	+
510(1)	SEGMENTAL CONCRETE RETAINING WALL	SQUARE METER	<del>29.59</del> 11.1
510(2)	TOE ROCK WALL	METER	<del>225</del>
603 (17-450)	450 mm PIPE	METER	<del>185.5</del> 11.1
603 (23)	PIPE END TREATMENT	LUMP SUM	ALL REQ'D.
604 (4)	ADJUST EXISTING MANHOLE	EACH	8
604 (5A)	INLET, TYPE A	EACH	+
604 (5B)	INLET, TYPE B	EACH	3
605 (7)	SPRING DRAIN	CUBIC METER	<del>1.25</del> 1.1
606 (1)	W-BEAM GUARDRAIL	METER	<del>22.9</del> 1.1
606 (5)	REMOVAL AND DISPOSAL OF GUARDRAIL	METER	<del>65</del> 1.1
606 (8)	SRT-350 TERMINAL END	EACH	4
607 (3)	CHAIN LINK FENCE	METER	<del>49</del> 1.1
608 (3)	ASPHALT SIDEWALK	SQUARE METER	<del>396</del> 1.1
609 (1)	CURB TYPE I	METER	<del>49</del> 1.1
609 (2)	CURB AND GUTTER, TYPE I	METER	<del>240</del> 1.1
615 (1)	STANDARD SIGNS	SQUARE METER	3.4
618 (5)	SEEDING	LUMP SUM	ALL REQUIRED
620 (1)	TOPSOIL	SQUARE METER	<del>250</del>
627 (6)	FIRE HYDRANT RELOCATION	EACH	2
627 (10)	ADJUSTMENT OF VALVE BOX	EACH	<del>2</del> 1.1
635 (1)	INSULATION BOARD	SQUARE METER	<del>47.2</del> 10.62
639 (1)	RESIDENCE DRIVEWAYS	EACH	<del>24</del> 27
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D.
641 (1)	EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D.
641 (2)	TEMPORARY CHECK DAMS	EACH	+
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D.
642 (2)	THREE PERSON SURVEY PARTY	HOURLY	5
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	<del>400</del> 36
643 (6)	TYPE III BARRICADE	EACH PER DAY	<del>275</del> 61
643 (7)	TRAFFIC CONE	EACH PER DAY	<del>2,700</del> 61
643 (8)	DRUM	EACH PER DAY	<del>400</del> 1.1
643 (14)	FLAGGING	MAN HOUR	<del>500</del> 1.1
643 (17)	WATERING	KILOLITER	<del>20</del> 1.1
401(6)	P&S-2	MEGAGRAM	1.1
403(12)	CSS-1	MEGAGRAM	1.1

**BASIS OF ESTIMATE**

ITEM NO.	ITEM	QUANTITY
203 (6)	BORROW TYPE A	2.2 MEGAGRAM/CUBIC METER
301 (1)	CRUSHED AGGREGATE BASE COURSE	2.32 MEGAGRAM/CUBIC METER
401 (1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A	2.48 kg/m <sup>2</sup> PER mm (116 lbs/SY/m DEPTH)
401 (2)	P&S-2 ASPHALT CEMENT	6% OF ITEM 401(1)
402 (1)	CSS-1 ASPHALT CEMENT	1020 liter/kg APPLY @ 0.30 liter/m <sup>2</sup>

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71494\DR\STATE\MEST		
PLOT: P:\-LIB\-PLOT\MPL0TF.PCP(1) OR MPL0TH.PCP(2)		
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STATE OF ALASKA  
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SOUTHEAST REGION DESIGN & CONSTRUCTION

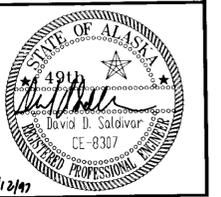
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SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

DESIGNED BY: D. BLACKBURN  
DRAWN BY: B.A.  
CHECKED BY: D. SALDIVAR

PROJECT NO. 71494  
DATE: JULY, 1997  
SHEET 5 OF 24



**ESTIMATE OF QUANTITIES**

RECORD OF REVISIONS

MANHOLE ADJUSTMENT SUMMARY		
STATION	OFFSET	REMARKS
EAGLE AVENUE		
1+475	3 RT	ADJUST
1+525	2.5 RT	ADJUST
1+563	3 RT	ADJUST
1+684	1 RT	ADJUST
1+709	1 LT	ADJUST
1+772	1 LT	ADJUST
TOTEM ROW STREET		
1+009	2 RT	ADJUST
1+064		ADJUST

GUARDRAIL INSTALLATION SUMMARY			
STATION	OFFSET	LENGTH (m)	REMARKS
EAGLE AVENUE			
1+527 TO 1+556	LT	30.5 *	SEE SHEET 20
1+526 TO 1+563	RT	38.1 *	SEE SHEET 20

\* LENGTH OF GUARDRAIL INCLUDES THE SRT-350 TERMINAL ENDS.

DRAINAGE STRUCTURE SUMMARY						
STRUCTURE NO.	TYPE	STATION	OFFSET (m)	TOP ELEV. (m)	INV. ELEV. (m)	REMARKS
EAGLE AVENUE						
(S-1)	"A" INLET	1+626.7	4.3 RT	21.12	19.04	SOLID COVER, 0.50 m SUMP
(S-1A)	"B" INLET	1+624	5.4 LT	21.20	19.50	TIE INLET
TOTEM ROW ST						
(S-2)	"B" INLET	1+014	3.25 LT	10.90	9.59	SOLID COVER, 0.50 m SUMP
(S-3)	"B" INLET	1+054	3.25 LT	15.84	14.54	SOLID COVER, 0.50 m SUMP
(S-4)	"A" INLET	1+011	4.0 LT			TIE INLET - ALLIED

CHAINLINK FENCE SUMMARY					
STATION	OFFSET	STATION	OFFSET	LENGTH (m)	REMARKS
EAGLE AVENUE					
1+629	5.25 RT	1+648	5.25 RT	19	SEE SHEET 24

WATER VALVE ADJUSTMENT SUMMARY		
STATION	OFFSET	REMARKS
EAGLE AVENUE		
1+699	2 LT	ADJUST
TOTEM ROW STREET		
1+014	2 LT	ADJUST

FIRE HYDRANT RELOCATION SUMMARY		
STATION	OFFSET	REMARKS
EAGLE AVENUE		
1+582	LT	SEE SHEET 21 FOR DETAILS
TOTEM ROW STREET		
1+008	LT	SEE SHEET 21 FOR DETAILS

SPRING DRAIN SUMMARY	
STATION	REMARKS
EAGLE AVENUE 1+410	

UTILITY POLE TREATMENT SUMMARY		
STATION	OFFSET	REMARKS
EAGLE AVENUE		
1+429.5	RT	SEE DETAIL ON SHEET 19
1+479.5	RT	SEE DETAIL ON SHEET 19
1+533	RT	SEE DETAIL ON SHEET 19
1+589	RT	SEE DETAIL ON SHEET 19

PAVEMENT PATCHING		
STATION	AREA m <sup>2</sup>	REMARKS
TOTEM ROW STREET		
1+015	9	SEE DETAIL ON SHEET 22

TEMPORARY CHECK DAM SUMMARY		
STATION	OFFSET	REMARKS
EAGLE AVENUE		
1+519	LT	SEE DETAIL ON SHEET 19
1+766	LT	SEE DETAIL ON SHEET 19
1+778	LT	SEE DETAIL ON SHEET 19
TOTEM ROW STREET		
1+007	LT	SEE DETAIL ON SHEET 19

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71494\DR\STATE\SUM5
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BY: _____ DATE: _____ DESCRIPTION OF CHANGE: _____

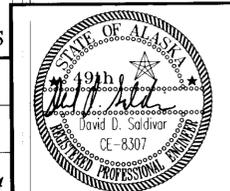
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

DESIGNED BY: D. BLACKBURN	PROJECT NO. 71494
DRAWN BY: R. SNYDER	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 6 OF 24



MISCELLANEOUS SUMMARIES

### DRIVEWAY SUMMARY

STATION	OFFSET	WIDTH (m)	REMARKS
<b>EAGLE AVENUE, CONT.</b>			
1+378	RT	8	
1+388	LT	4.2	
1+400	RT	8.9	
1+415	LT	5	
1+422	RT	5	
1+432	LT	5	
1+442	RT	6	
1+460	LT	5.5	
1+463	RT	5.9	
1+485	RT	7.4	
1+493	LT	3.5	
1+511	LT	6	
1+522	RT	6.8	
1+525	LT	4	
1+578	LT	6.2	
1+615	RT	3.8	DRIVEWAY RECONSTRUCTION
1+626	LT	3	NEW DRIVEWAY
1+636	LT	2.5	GRADE & TOP W/CRUSHED AGG.
1+650	RT	4.3	
1+729	LT	6	
1+753	LT	6	
1+771	LT	4.7	
1+784	LT	6	
1+782	RT	5	

### CROSS CULVERT SUMMARY

PIPE NO.	DIA. (mm)	LENGTH (m)	FROM	INVERT ELEV.	TO	INVERT ELEV.	REMARKS
<b>EAGLE AVENUE</b>							
P-1	1220	2	1+545 LT	21.00	-	-	SEE DETAIL SHEET 18
P-2	450	10	S-1A	19.90	1+626.7, 4.3m RT	16.00	SEE DETAIL SHEET 18
P-2A	450	20	1+625, 25.4 LT	*	S-1A	20.00	
P-2B	450	4	1+620, 5.4m LT	20.50	S-1A	20.00	
P-3	450	15	1+700.4, 5.7m LT	15.00	S-3	14.60	
<b>TOTEM ROW STREET</b>							
P-4	450	40	S-3	14.00	S-2	10.15	
P-5	450	7	S-2	10.13	"T" 1+007, 7m LT	*	
P-6	7"	1.1	E. 100.0		S-4		ALLEN

\* MATCH DITCH GRADE

**NOTE:**

CULVERT LENGTHS ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

### TOE ROCK PLACEMENT SUMMARY

FROM		TO		LENGTH (m)	REMARKS
STATION	OFFSET	STATION	OFFSET		
<b>EAGLE AVENUE</b>					
1+350	RT	1+575	RT	225	SEE DETAIL SHEET 24

### CHAIN LINK FENCE SUMMARY

FROM		TO		HEIGHT (mm)	LENGTH (m)	REMARKS
STATION	OFFSET	STATION	OFFSET			
<b>EAGLE AVENUE</b>						
1+628	5.25 RT	1+647	5.25 RT	1800	19	SEE DETAIL SHEET 24

### WHEELCHAIR RAMP SUMMARY

STATION	OFFSET	TYPE	REMARKS
<b>TOTEM ROW STREET</b>			
1+010	LT	I	
1+010	RT	I	
1+057	LT	I	
1+057	RT	I	
1+120	LT	I	
1+120	RT	II	

### DRIVEWAY CULVERT SUMMARY

STATION	OFFSET	300mm			450mm			600mm			LENGTH (m)
		1	2	3	1	2	3	1	2	3	
<b>EAGLE AVENUE</b>											
1+388	LT				X						7
1+415	LT				X						7
<del>1+422</del>	<del>RT</del>				<del>X</del>						<del>7</del>
1+432	LT				X						7
1+460	LT				X						7
1+494	LT				X						7
1+511	LT				X						9
1+522	<del>RT</del>				<del>X</del>						<del>7.5</del>
1+525	LT				X						7

### DRIVEWAY RAMP SUMMARY

STATION	OFFSET	WIDTH (m)	REMARKS
<b>TOTEM ROW STREET</b>			
1+022	LT	4.6	

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PATH: P:\KTN\71494\DR\STATE\SUM4	STATE OF ALASKA	KETCHIKAN	SAXMON ROADS PAVING	ALASKA	DESIGNED BY:	D. BLACKBURN	PROJECT NO.	71494
PLOT: P:\-LIB\-PLOT\MPL0TF.PCP(1) OR MPL0TH.PCP(2)	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		STP-0003(26) ~ 71494		DRAWN BY:	R. SNYDER	DATE:	JULY, 1997
BY: _____	SOUTHEAST REGION DESIGN & CONSTRUCTION		<b>DRIVEWAY &amp; RAMP SUMMARIES</b>		CHECKED BY:	D. SALDIVAR	SHEET	7 OF 24

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

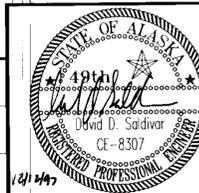
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SAXMON ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

DESIGNED BY:  
D. BLACKBURN  
DRAWN BY:  
R. SNYDER  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
71494  
DATE:  
JULY, 1997  
SHEET 7 OF 24



**DRIVEWAY CULVERT REMOVAL SUMMARY**

STATION	OFFSET	300 mm	450 mm	600 mm	LENGTH (m)
<b>EAGLE AVENUE</b>					
1+388	LT	X			6
1+415	LT		X		6
1+422	RT	X			6
1+432	LT		X		6
1+460	LT		X		9
1+494	LT		X		6
1+511	LT		X		6
1+522	RT	X			11
1+525	LT		X		6
1+578	LT	X			7.5
<b>TOTEM ROW STREET</b>					
1+020	LT		X		8

**REMOVAL OF STRUCTURES & OBSTRUCTIONS SUMMARY**

DESCRIPTION	STATION	REMARKS
SPRUCE TREES	EAGLE AVE. 1+635 RT.	REMOVE & DISPOSE OF TREES & ROOT WADS (2 EA.)
LOGS	TOTEM ROW ST. 1+100 LT.	REMOVE & DISPOSE OF
WOOD STAIRS	TOTEM ROW ST. 1+095 LT.	REMOVE & DISPOSE OF
CONCRETE SIDEWALK	TOTEM ROW STA. 1+009 TO 1+125 RT	REMOVE & DISPOSE OF

**GUARDRAIL REMOVAL SUMMARY**

STATION	OFFSET	LENGTH (m)	REMARKS
<b>EAGLE AVENUE</b>			
1+540	LT	28	
1+540	RT	37	

**CROSS CULVERT REMOVAL SUMMARY**

STATION	OFFSET	300 mm	450 mm	600 mm	LENGTH (m)
<b>EAGLE AVENUE</b>					
1+627	℄	X			8
1+703	℄	X			11

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\—SUM6		
PLOT: P: \—LIB\—PLOT\MPL0TF.PCP(1) OR MPL0TH.PCP(2)		
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STATE OF ALASKA  
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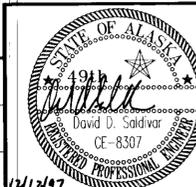
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ALASKA

**CULVERT SUMMARIES**

DESIGNED BY: D. BLACKBURN	PROJECT NO. 71494
DRAWN BY: R. SNYDER	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 8 OF 24

DATE: JULY, 1997	SHEET 8 OF 24
DATE: 12/12/97	SHEET 68 OF 84

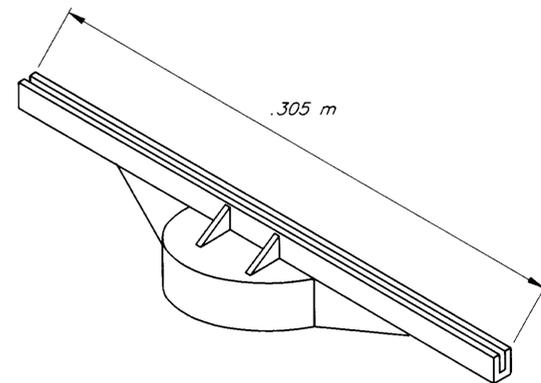


**STANDARD SIGNING SCHEDULE**

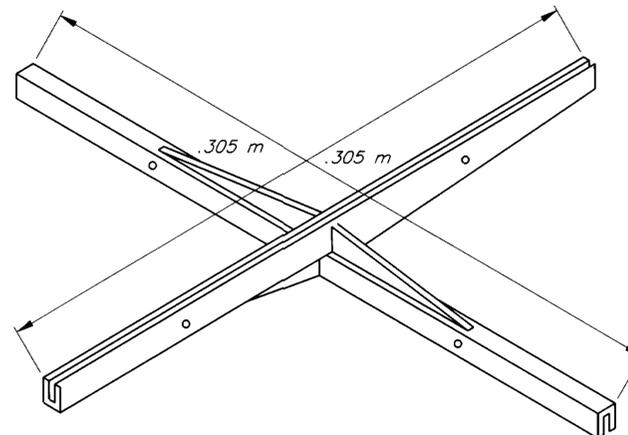
POST NO.	STREET	STATION	OFFSET		TYPE	FACING	LEGEND	SIZE		AREA	POST SIZE	REMARKS
			LT.	RT.				WT	HT			
6	WOLF	1+357		X	R1-1	NB	STOP	.762	.762	.581	60mm	
7	WOLF	1+357		X	D3-1	SB/NB	WOLF ST	.762	.172	.131		MOUNT ON SAME POST AS 6
8	WOLF	1+357		X	D3-1	EB/WB	EAGLE ST	.915	.172	.157		MOUNT ON SAME POST AS 6
9	EAGLE	1+700	X		R1-1	SB	STOP	.762	.762	.581	60mm	
10	EAGLE	1+700	X		D3-1	EB/WB	EAGLE ST	.915	.172	.157		MOUNT ON SAME POST AS 9
11	EAGLE	1+700	X		D3-1	NB/SB	TOTEM ROW	.915	.172	.157		MOUNT ON SAME POST AS 9
28	TOTEM ROW	1+069		X	R1-1	NB	STOP	.762	.762	.581	60mm	
29	TOTEM ROW	1+069		X	D3-1	NB/SB	TOTEM ROW	.915	.172	.157		MOUNT ON SAME POST AS 28
30	TOTEM ROW	1+069		X	D3-1	EB/WB	EAGLE ST	.915	.172	.157		MOUNT ON SAME POST AS 28
31	TOTEM ROW	1+011	X		R1-1	WB	STOP	.762	.762	.581	60mm	
32	TOTEM ROW	1+011	X		D3-1	NB/SB	TOTEM ROW	.915	.172	.157		MOUNT ON SAME POST AS 31
<b>TOTAL AREA</b>										<b>3.400</b>		

**GENERAL SIGNING NOTES**

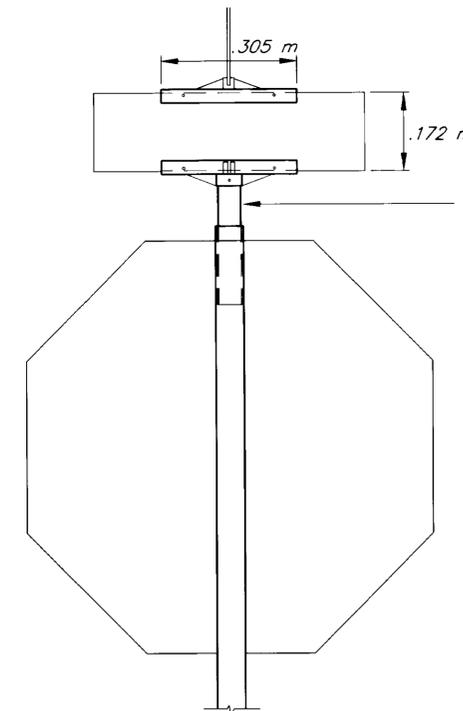
- SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
- SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
- ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS OR STEEL PIPES.
- ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
- ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES. AND BE THE EXTRUDED BLADE TYPE.
- SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN IS A MINIMUM HEIGHT OF 2.14m ABOVE THE ROADWAY SURFACE.
- SEE STANDARD DRAWING S-05.00 FOR LATERAL CLEARANCE TO SIGNS.
- SEE STANDARD DRAWING S-30.01 FOR POST EMBEDMENT DETAILS.
- 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.
- STREET REFERS TO THE STREET THE STATIONING IS REFERENCED TO.
- FOR PURPOSES OF THE SIGN PLAN TONGASS HIGHWAY IS ASSUMED TO RUN NORTH & SOUTH.



**TYPICAL HEAVY DUTY SIGN TO POST BRACKET**



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



**SIGN POST DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\SIGNSUM		
PLOT: P: \-LIB\-PLOT\MPL0TF.PCP(1) OR MPL0TH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

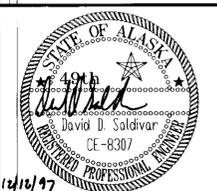
KETCHIKAN

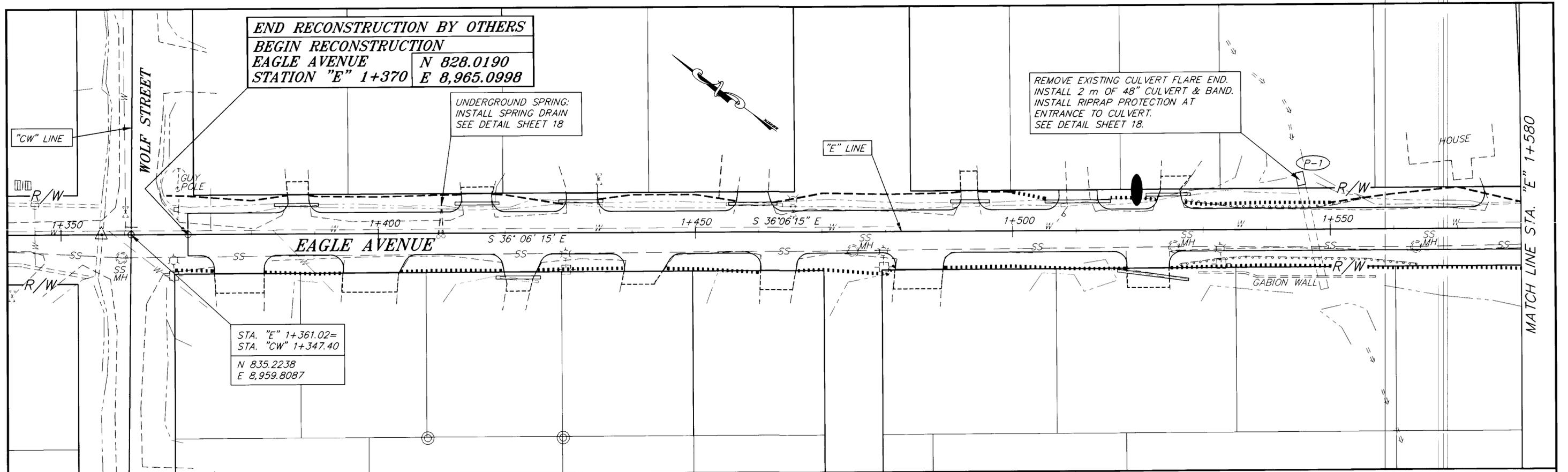
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

**SIGNING SUMMARIES**

DESIGNED BY: R. PURVES	PROJECT NO. 71494
DRAWN BY: W. HICKOK	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 9 OF 24



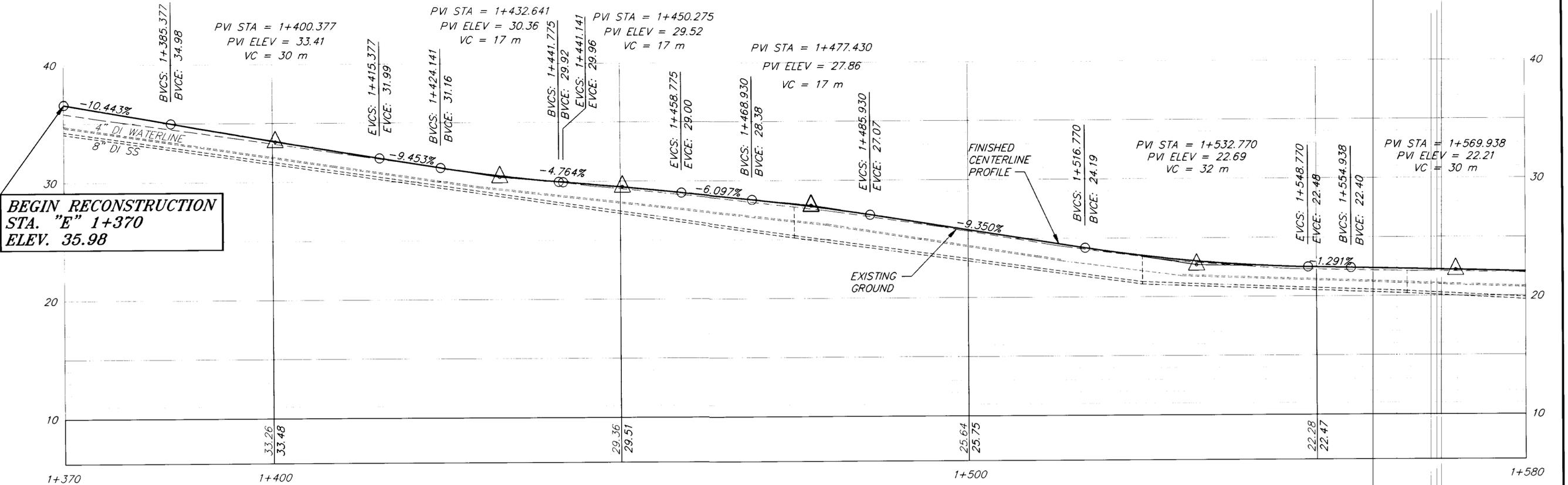


END RECONSTRUCTION BY OTHERS  
 BEGIN RECONSTRUCTION  
 EAGLE AVENUE N 828.0190  
 STATION "E" 1+370 E 8,965.0998

UNDERGROUND SPRING:  
 INSTALL SPRING DRAIN  
 SEE DETAIL SHEET 18

REMOVE EXISTING CULVERT FLARE END.  
 INSTALL 2 m OF 48" CULVERT & BAND.  
 INSTALL RIPRAP PROTECTION AT  
 ENTRANCE TO CULVERT.  
 SEE DETAIL SHEET 18.

STA. "E" 1+361.02=  
 STA. "CW" 1+347.40  
 N 835.2238  
 E 8,959.8087



BEGIN RECONSTRUCTION  
 STA. "E" 1+370  
 ELEV. 35.98

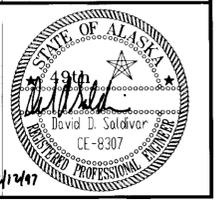
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

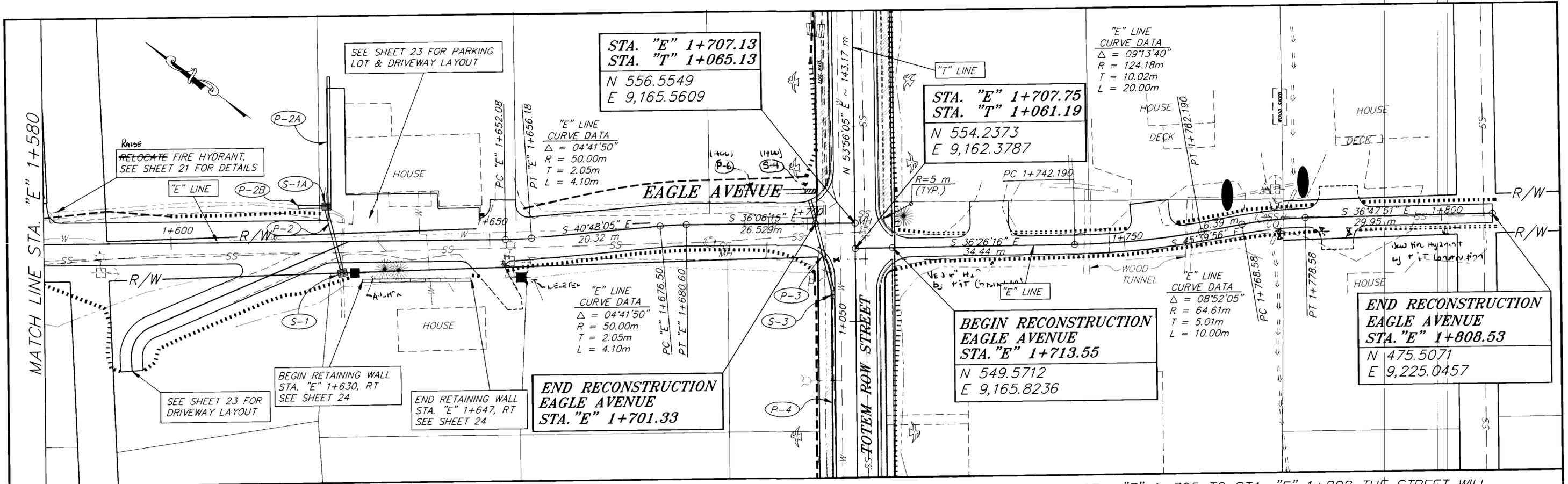
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PLOT:	P: \-LIB\ -PLOT\MPL0TF.PCP(300) OR MPL0TH.PCP(600)	
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

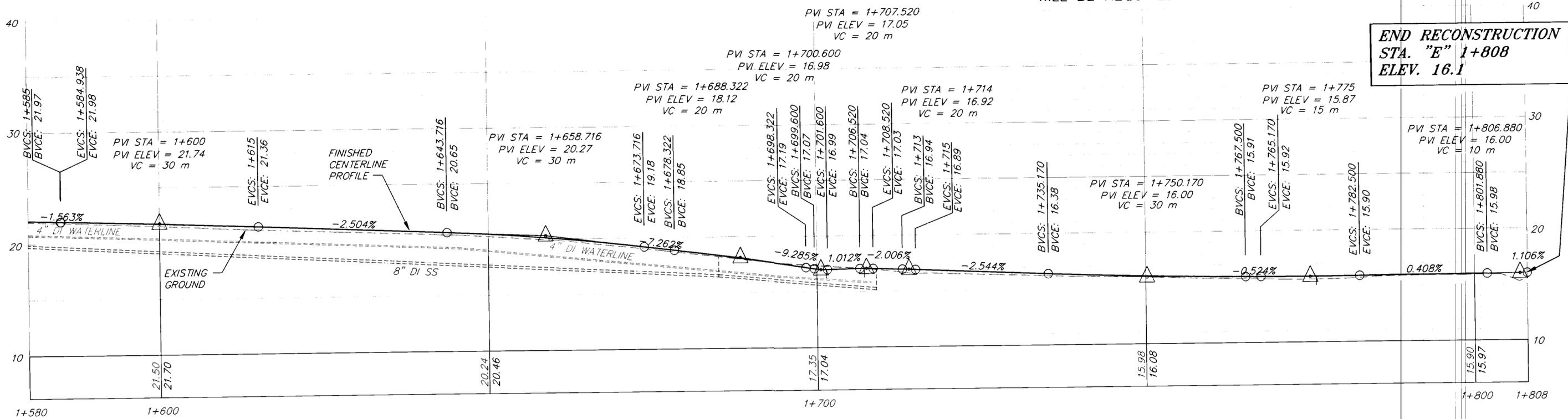
KETCHIKAN  
 SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494  
 EAGLE AVENUE  
 STA. "E" 1+370 TO STA. "E" 1+580  
 PLAN & PROFILE

DESIGNED BY:	D. BLACKBURN	PROJECT NO.	71494
DRAWN BY:	R. SNYDER	DATE:	JULY, 1997
CHECKED BY:	D. SALDIVAR	SHEET	10 OF 24





NOTE: FROM STA. "E" 1+795 TO STA. "E" 1+808 THE STREET WILL BE EXTENDED 13 m. ADDITIONAL CLEARING AND GRUBBING WILL BE REQUIRED TO COMPLETE THE WORK.



END RECONSTRUCTION STA. "E" 1+808 ELEV. 16.1

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

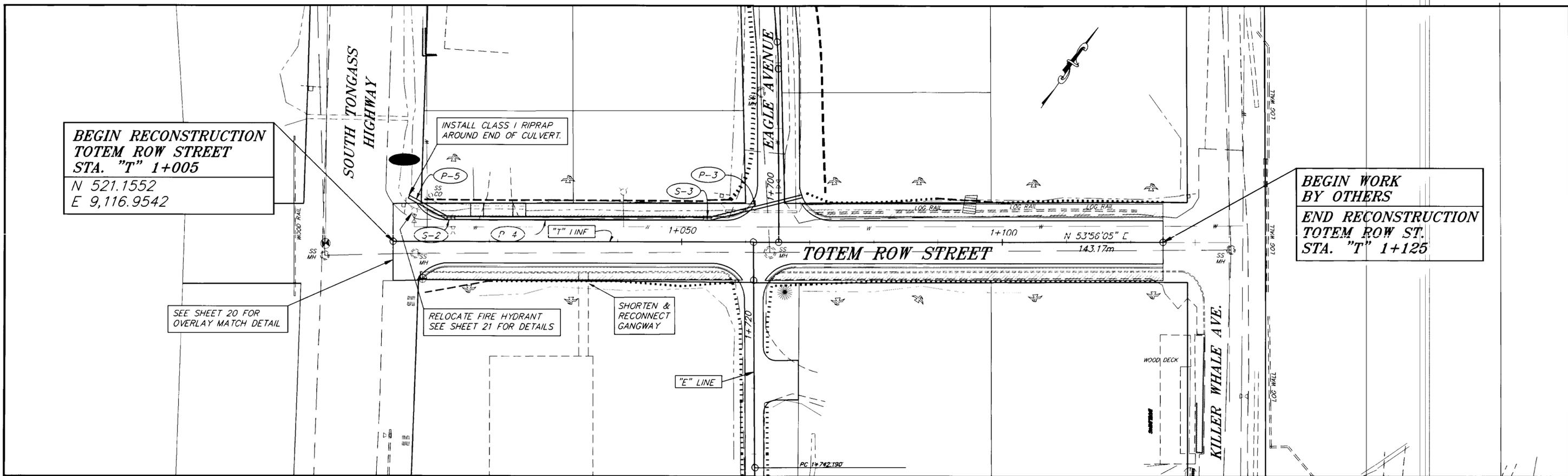
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BY:	
DATE:	
DESCRIPTION OF CHANGE:	

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

KETCHIKAN  
 SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494  
 ALASKA  
**STA. "E" 1+580 TO STA. "E" 1+808**  
 EAGLE AVENUE  
 PLAN & PROFILE

DESIGNED BY:	D. BLACKBURN	PROJECT NO.	71494
DRAWN BY:	R. SNYDER	DATE:	JULY, 1997
CHECKED BY:	D. SALDIVAR	SHEET 11 OF 24	14/197

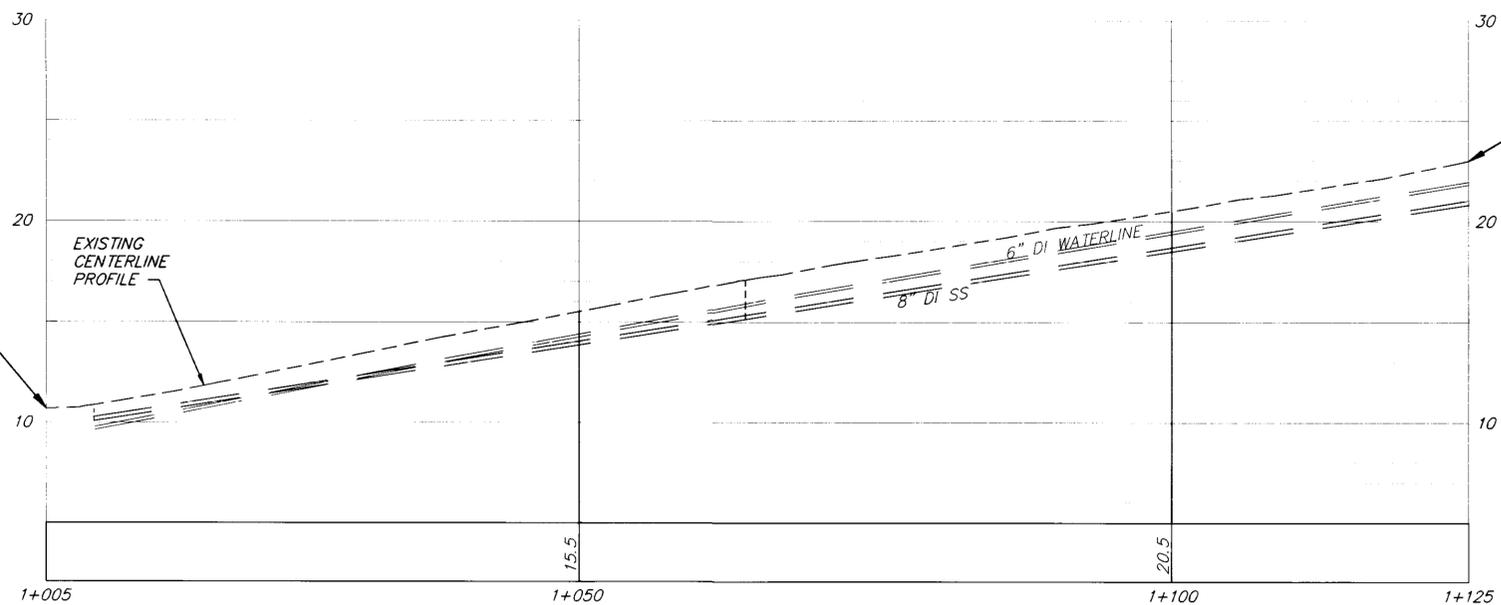




**BEGIN RECONSTRUCTION  
TOTEM ROW STREET  
STA. "T" 1+005**  
N 521.1552  
E 9,116.9542

SEE SHEET 20 FOR  
OVERLAY MATCH DETAIL

**BEGIN WORK  
BY OTHERS**  
**END RECONSTRUCTION  
TOTEM ROW ST.  
STA. "T" 1+125**



**BEGIN RECONSTRUCTION  
STA. "T" 1+005**  
**MATCH EXISTING**

**END RECONSTRUCTION  
STA. "T" 1+125**  
**MATCH WORK  
BY OTHERS**

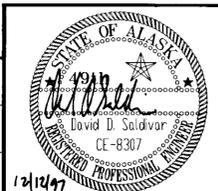
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\T1000		
PLOT: P: \-LIB\-PLOT\MPL0TF.PCP(300) OR MPL0TH.PCP(600)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

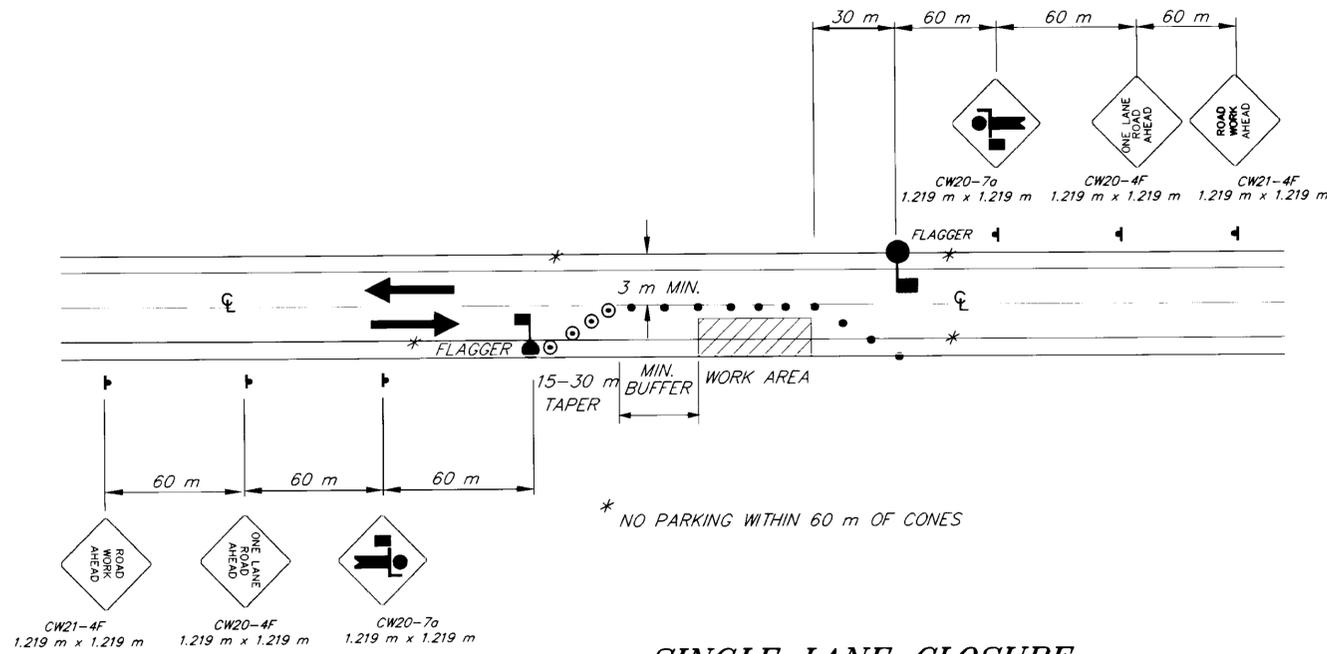
KETCHIKAN      SAXMAN ROADS PAVING  
STP-0003(26)~ 71494      ALASKA  
**TOTEM ROW STREET**  
**STA. "T" 1+000 TO STA. "T" 1+125**  
PLAN & PROFILE

DESIGNED BY:	D. BLACKBURN	PROJECT NO.	71494
DRAWN BY:	R. SNYDER	DATE:	JULY, 1997
CHECKED BY:	D. SALDIVAR	SHEET 12 OF 24	12/12/97



## TRAFFIC CONTROL NOTES

1. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES THROUGH THE WORK AREA ALONG TOTEM ROW STREET.
- THE ROADWAY ALONG EAGLE AVENUE MAY BE CLOSED TO THRU TRAFFIC DURING WORK HOURS. THE ROADWAY SHALL BE RESTORED TO DRIVABLE CONDITION AND OPEN TO TWO WAY TRAFFIC AT THE END OF EACH WORK SHIFT. THE AREA CLOSED TO THRU TRAFFIC SHALL ONLY BE IN THE VICINITY OF ACTUAL WORK AREA AND LIMITED TO 250 m LONG WORK AREA. THE REMAINDER OF EAGLE AVENUE SHALL REMAIN OPEN.
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 3 m.
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 120 m AND VISIBLE FROM THE FLAGGER STATION.
8. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
9. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 8 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS NOTICE OF THE CLOSURE.
10. 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.



### SINGLE LANE CLOSURE TWO LANE ROAD

#### LEGEND

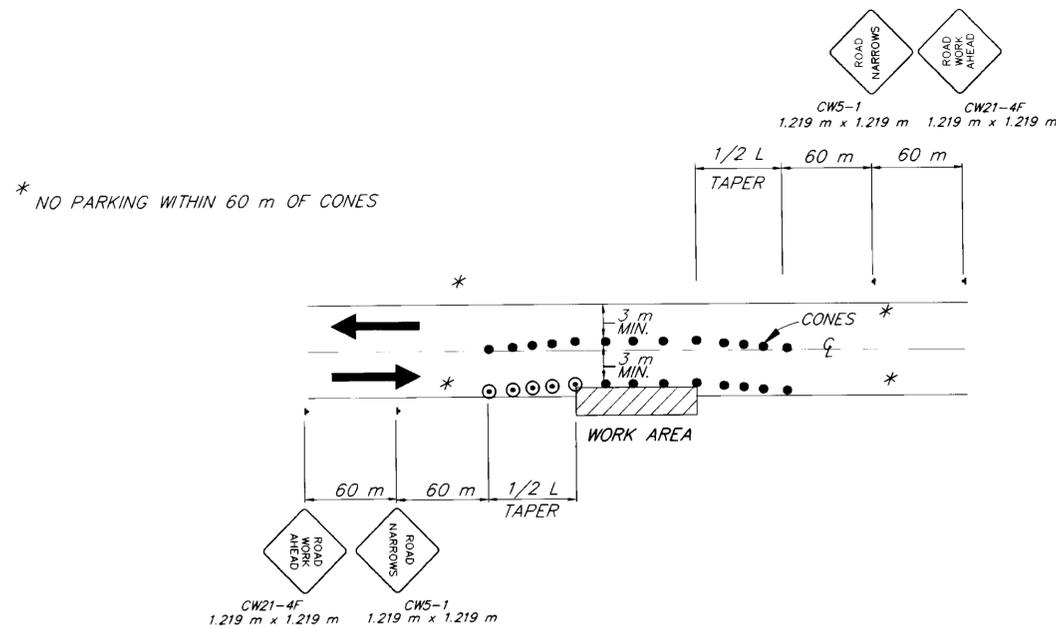
- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION

$$L = W \times T$$

WHERE:  
 L = LENGTH OF TAPER  
 W = WIDTH OF OFFSET  
 T = TAPER FACTOR

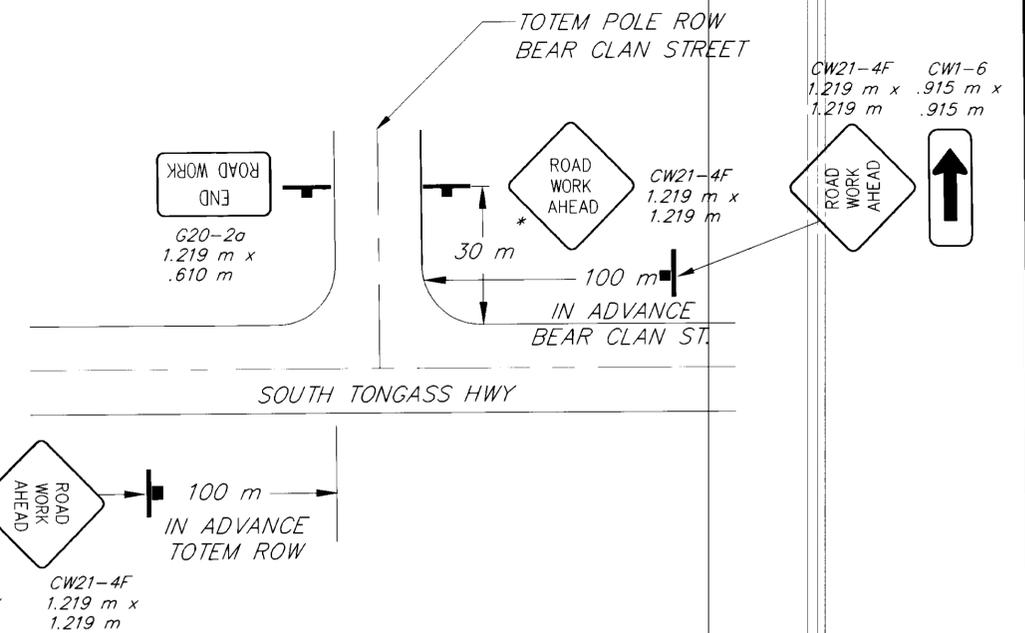
#### TCP TABLE SETUP

SPEED (KILOMETERS PER HOUR)	SPEED (MILES PER HOUR)	BUFFER/LENGTH (m)	CONE/DRUM SPACING (m)	TAPER FACTOR (T)
25	16	9	5	4:1
30	19	11	6	6:1
35	22	14	7	8:1
40	25	17	8	10:1
45	28	21	9	13:1
50	31	26	10	16:1
55	34	35	11	19:1
60	37	43	12	23:1
65	40	52	13	27:1
70	43	62	14	32:1
75	47	75	15	47:1
80	50	85	16	50:1
85	53	98	17	53:1
90	56	110	18	56:1



### ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 3 METERS TO CENTERLINE) THE SIGNS AND CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\TCP1		
PLOT: P: \-LIB\ -PLOT\MPL01F.PCP(1) OR MPL01H.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

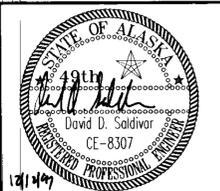
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

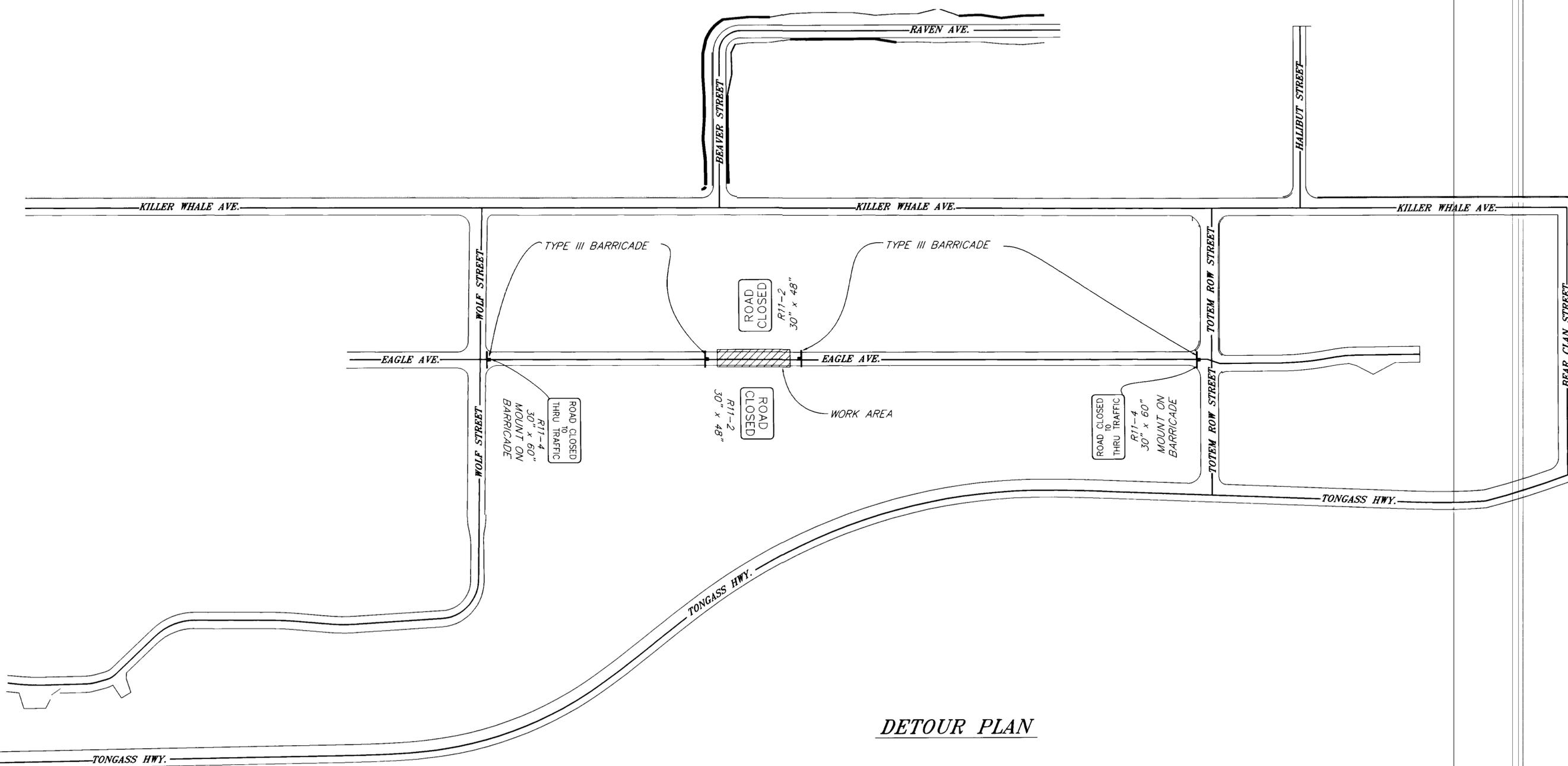
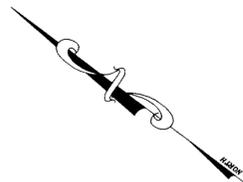
SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494

ALASKA

DESIGNED BY: R. PURVES	PROJECT NO. 71494
DRAWN BY: K. KLEMMETSON	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 13 OF 24



## TRAFFIC CONTROL PLAN



**DETOUR PLAN**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

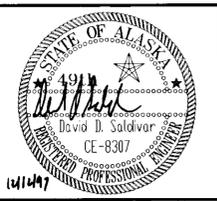
RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:
PATH: P: \KTN\71494\DR\ -SIGN2 PLOT: P: \-LIB\ -PLOT\MPLOTF.PCP(1000) OR MPLOTH.PCP(2000)		

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

KETCHIKAN      SAXMAN ROADS PAVING      ALASKA  
 STP-0003(26) ~ 71494

**TRAFFIC CONTROL PLAN**

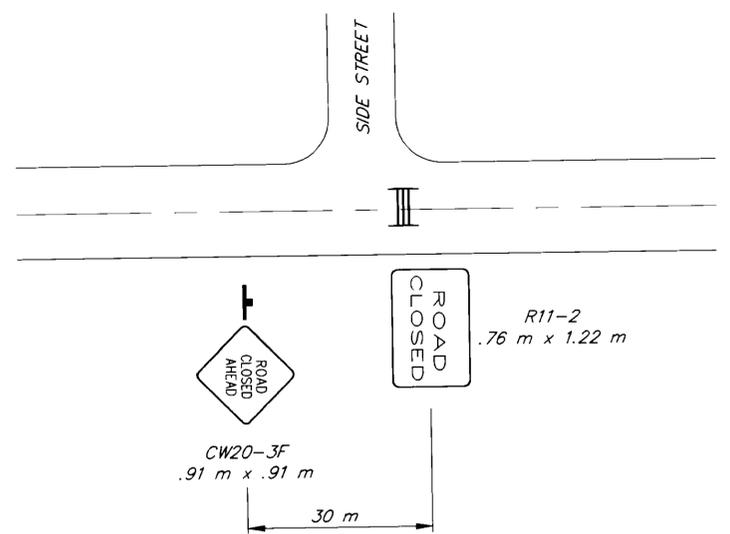
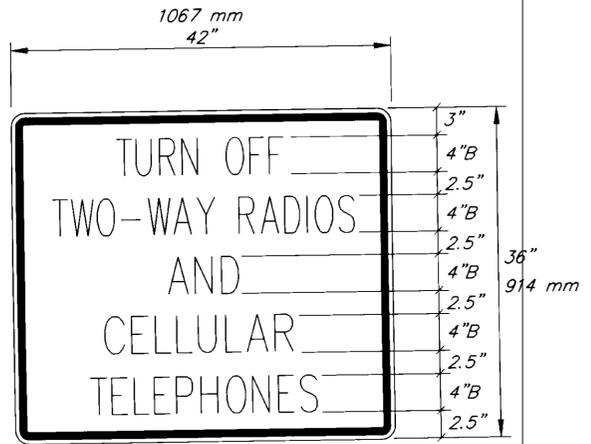
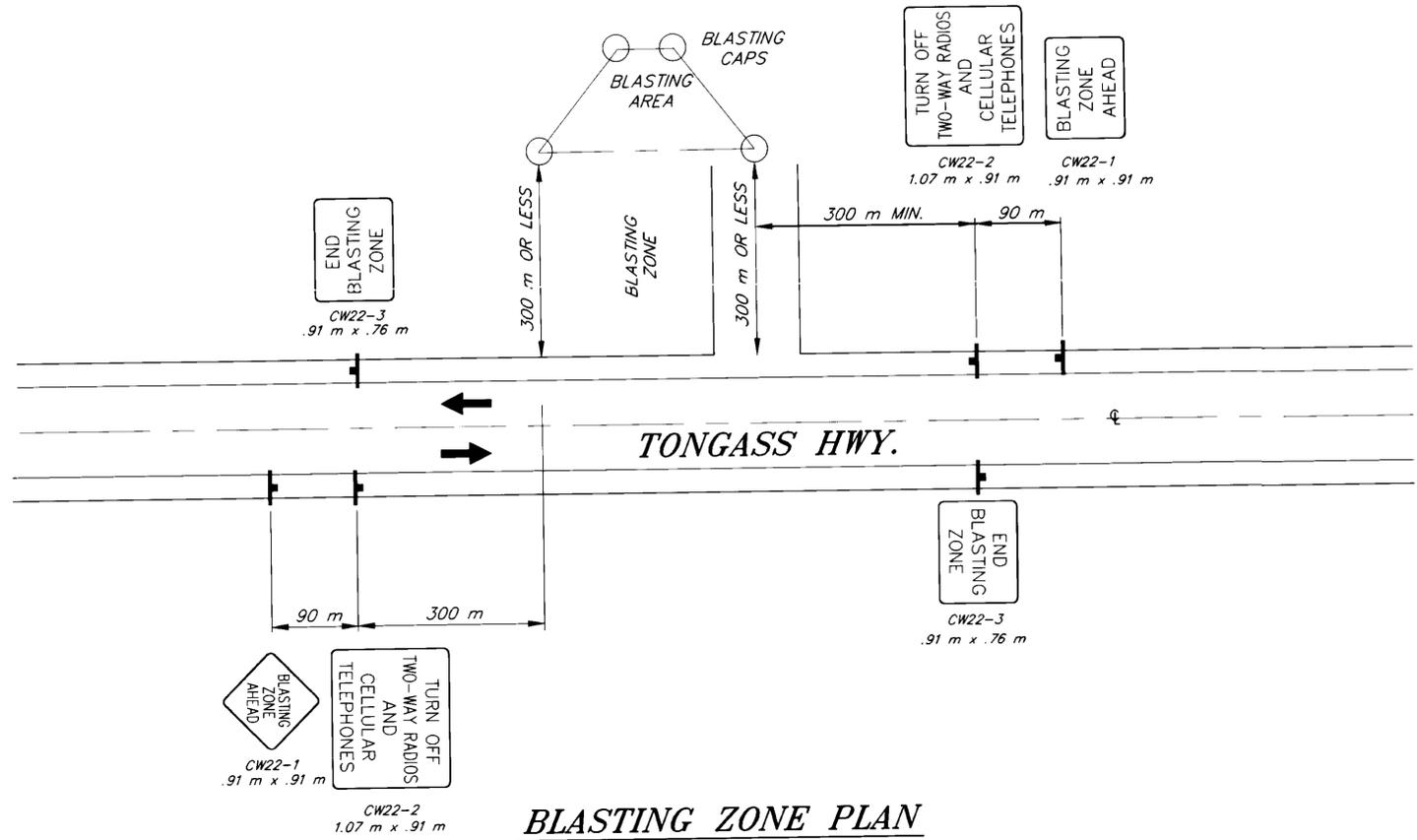
DESIGNED BY: R. PURVIS	PROJECT NO. 71494
DRAWN BY: W. HICKOK	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 14 OF 24



**LEGEND**

┆ ..... SIGN

III ..... TYPE III BARRICADE



**CW22-2**

1"	=	25.40 mm
2.5"	=	63.00 mm
3"	=	76.00 mm
4"	=	102.0 mm

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\ -TCP2		
PLOT: P: \-LIB\ -PLOT\MPL0TF.PCP(1) OR MPL0TH.PCP(2)		
BY:	DATE:	DESCRIPTION OF CHANGE:

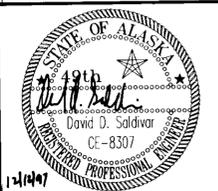
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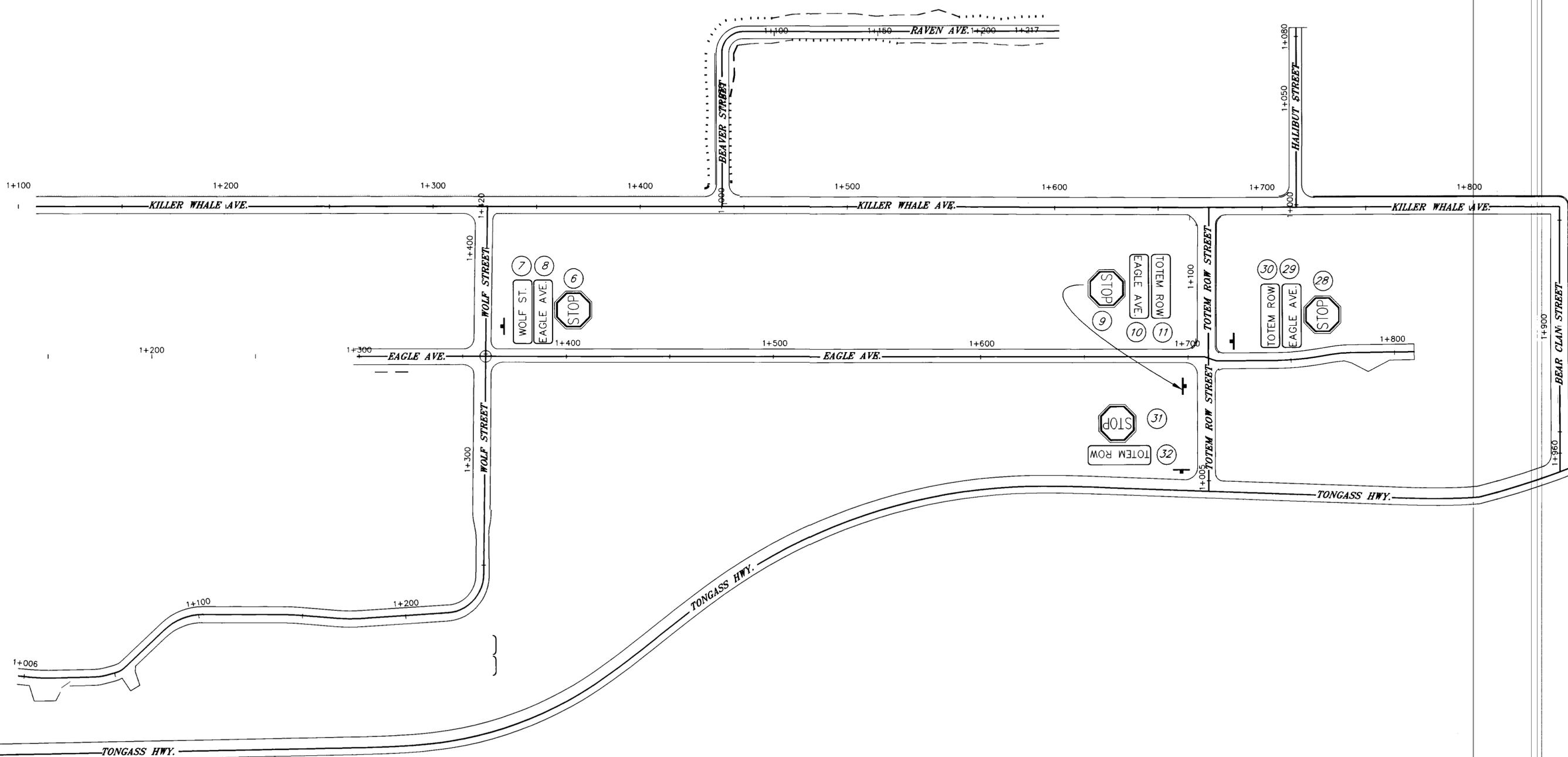
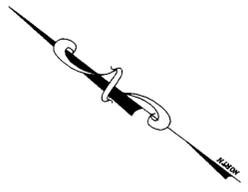
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494

**BLASTING ZONE PLAN**

DESIGNED BY:	R. PURVES	PROJECT NO.	71494
DRAWN BY:	K. KLEMMETSON	DATE:	JULY, 1997
CHECKED BY:	D. SALDIVAR	SHEET	15 OF 24
		SHEET	15 OF 84





NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\—SIGNPLN		
PLOT: P: \—LIB\—PLOT\MPL0TF.PCP(1000) OR MPL0TH.PCP(2000)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

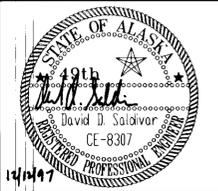
KETCHIKAN

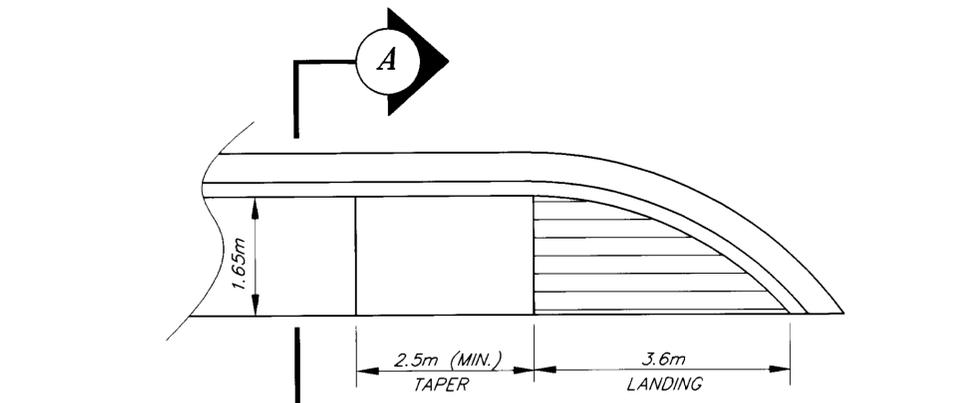
SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494  
 SIGNING PLAN

ALASKA

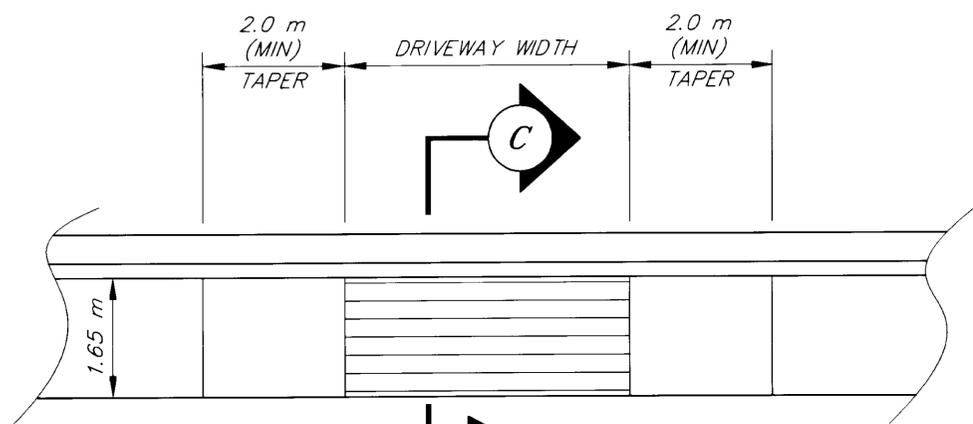
DESIGNED BY:	R. PURVIS
DRAWN BY:	W. HICKOK
CHECKED BY:	D. SALDIVAR

PROJECT NO.	71494
DATE:	JULY, 1997
SHEET 16 OF 24	14/147
SHEET 76 OF 84	

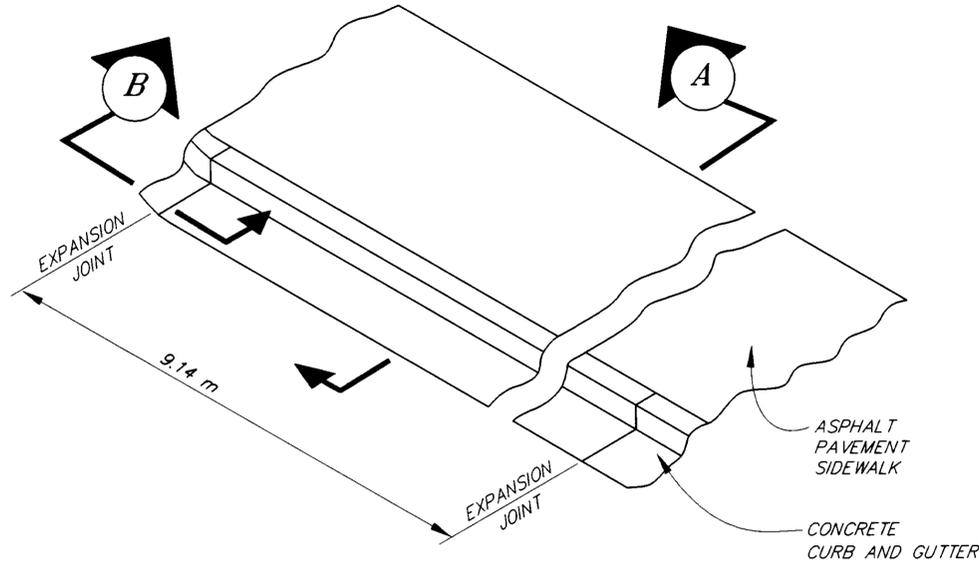




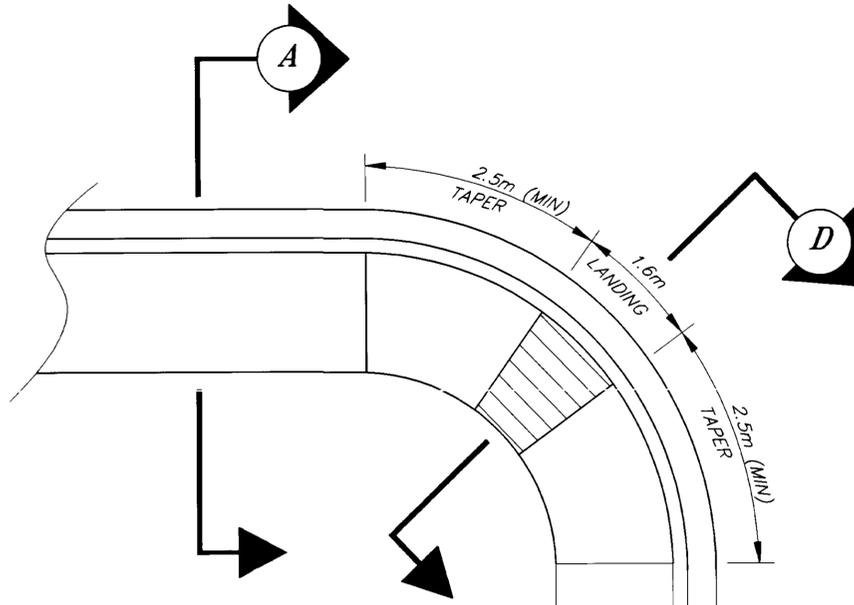
**CURB RAMP TYPE I**



**DRIVEWAY RAMP**

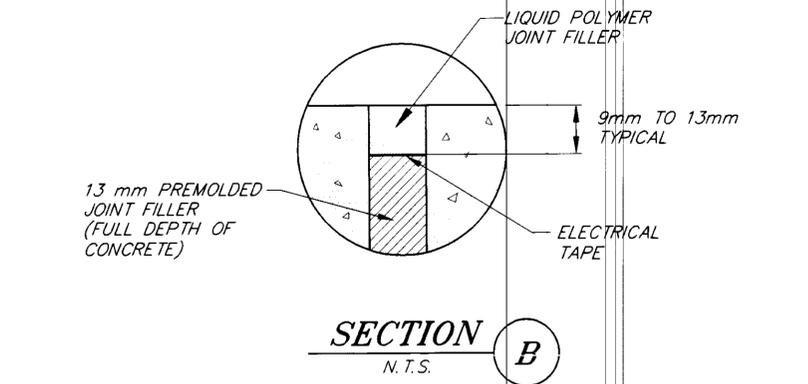


**TYPICAL SIDEWALK, CURB & GUTTER JOINT DETAIL**  
N.T.S.

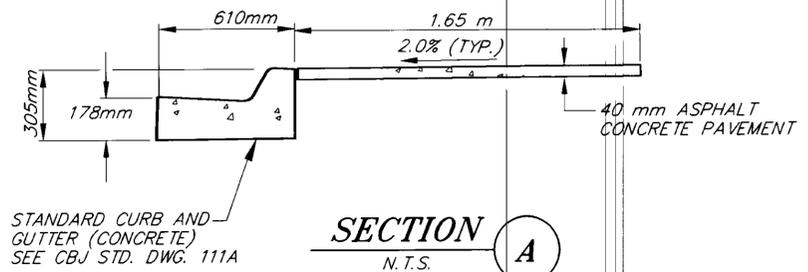


**CURB RAMP TYPE II**

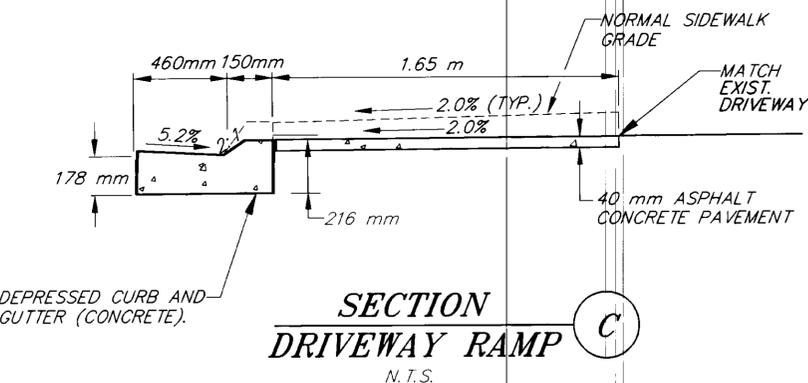
NOTE: ALL DIMENSIONS ALONG BACK OF CURB



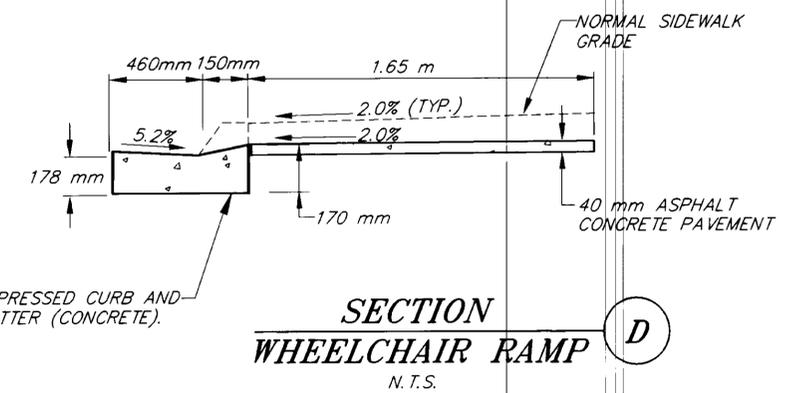
**SECTION B**  
N.T.S.



**SECTION A**  
N.T.S.



**SECTION C**  
**DRIVEWAY RAMP**  
N.T.S.



**SECTION D**  
**WHEELCHAIR RAMP**  
N.T.S.

**SIDEWALK, CURB AND GUTTER NOTES**

1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 9.14 m MAXIMUM.
2. ALL CURB AND GUTTER SHALL BE CLASS "A" CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF  $f_c = 2500$  psi.
3. IF EXISTING JOINT IS WITHIN 0.6 m OF RECONSTRUCTION AREAS, REMOVE AT JOINT INSTEAD OF SAWCUTTING. THIS DOES NOT APPLY TO NEW CONSTRUCTION.
4. LANDINGS SHALL BE CONTAINED WITHIN THE MARKED CROSSWALK.
5. SEE CURB CUT SUMMARY SHEET 10 FOR STATION/OFFSET LOCATIONS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71494\DR\STATE\DET2		
PLOT: P:\-LIB\-PLOT\MPL0TF.PCP(25) OR MPL0TH.PCP(50)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

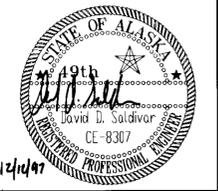
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

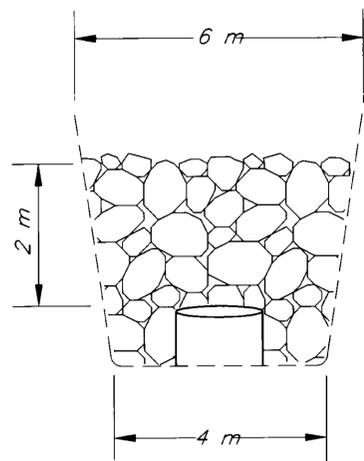
KETCHIKAN

SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494  
ALASKA  
**SIDEWALK DETAILS**

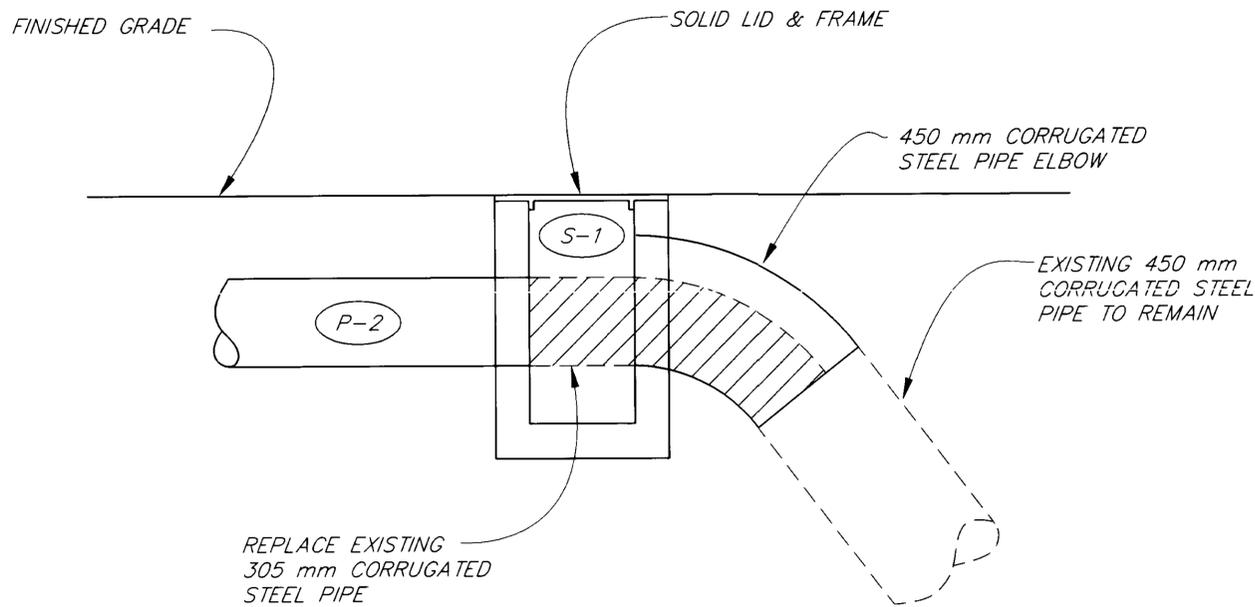
DESIGNED BY:  
BLACKBURN  
DRAWN BY:  
W. HICKOK/K. SNYDER  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
71494  
DATE:  
JULY, 1997  
SHEET 17 OF 24  
SHEET 17 OF 84

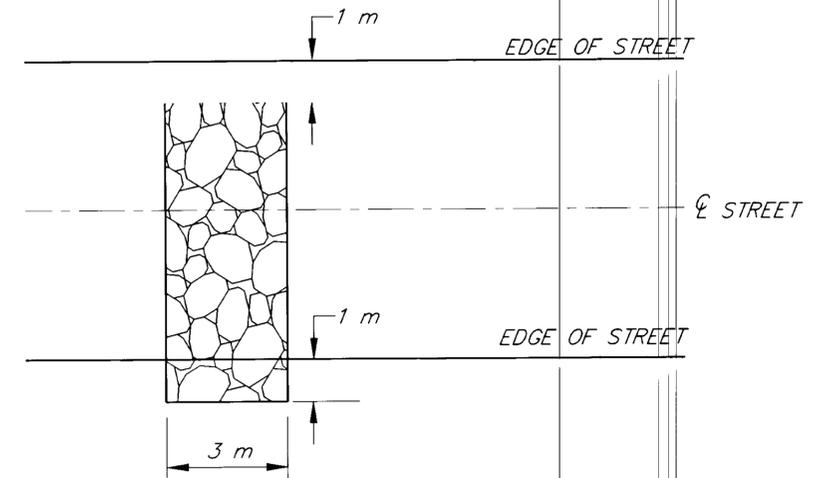




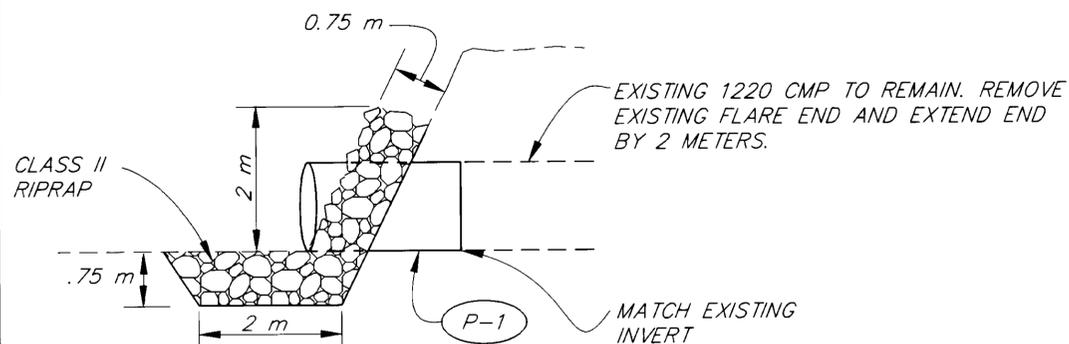
**RIPRAP PROTECTION PLAN**



**DRAINAGE STRUCTURE INSTALLATION PROFILE**

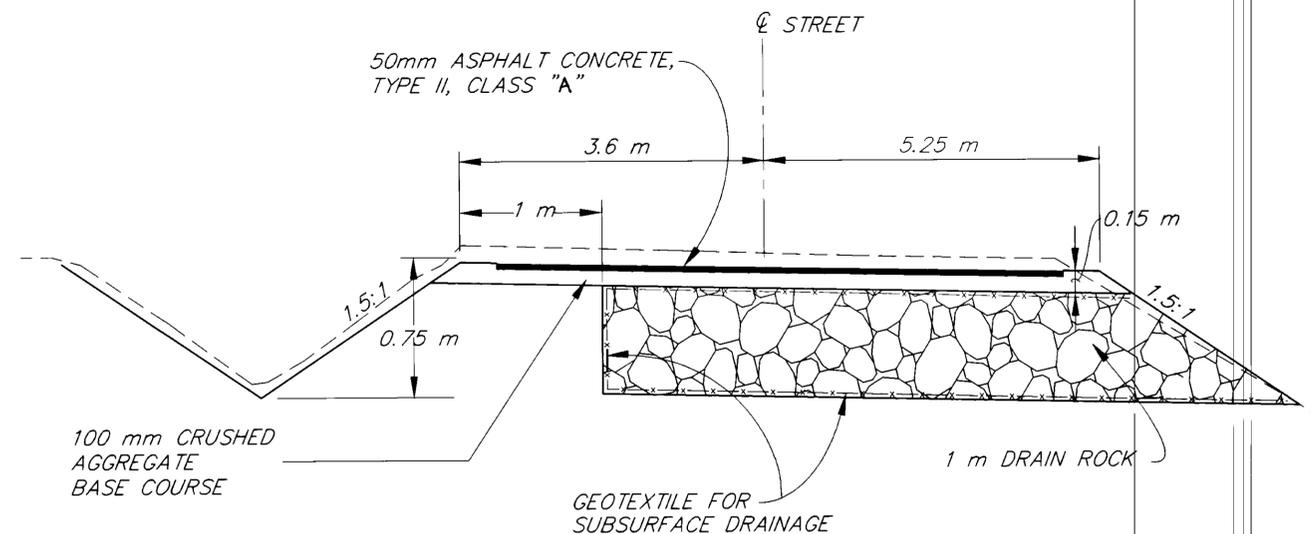


**SPRING DRAIN PLAN**



**RIPRAP PROTECTION PROFILE**

STA. 1+546, LT.  
EAGLE AVENUE



**SPRING DRAIN PROFILE**

STA. "E" 1+410

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71494\DR\STATE\--DET1		
PLOT: P:\-LIB\--PLOT\MPL0TF.PCP(25) OR MPL0TH.PCP(50)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

KETCHIKAN

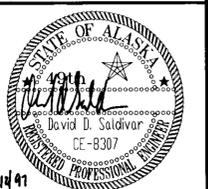
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STP-0003(26) ~ 71494

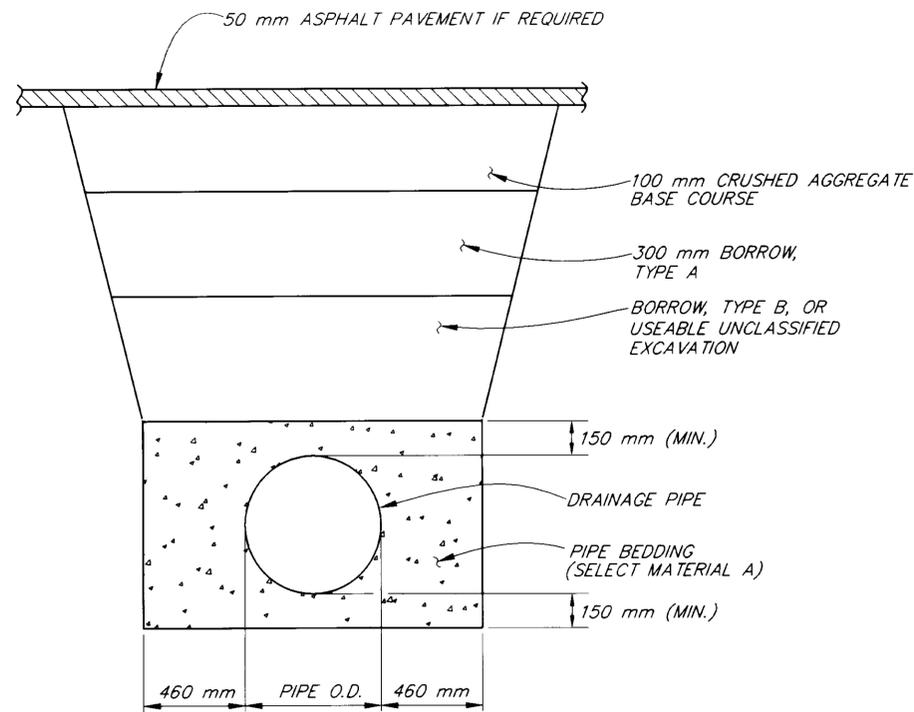
DRAINAGE DETAILS

ALASKA

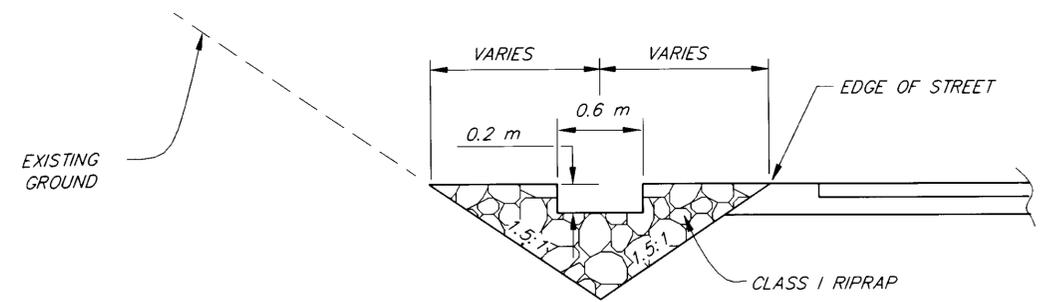
DESIGNED BY:  
D. BLACKBURN  
DRAWN BY:  
W. HICKOK  
CHECKED BY:  
D. SALDIVAR

PROJECT NO.  
71494  
DATE:  
JULY, 1997  
SHEET 18 OF 24

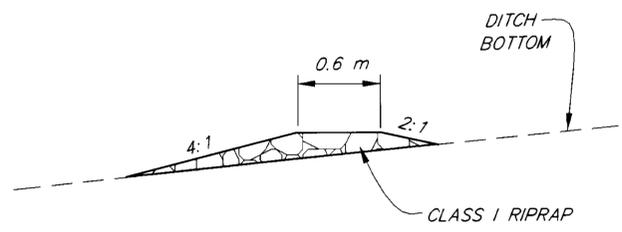




**PIPE DETAIL**



**SECTION**

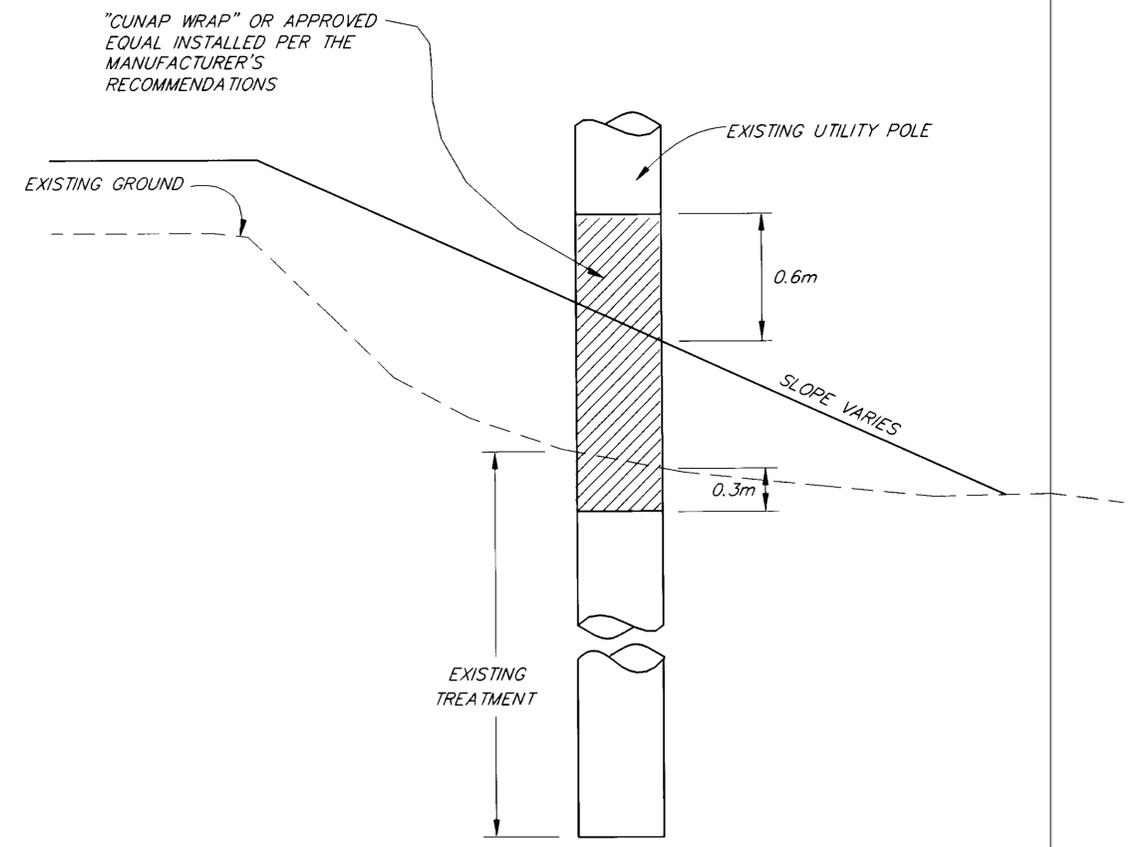


**PROFILE**

**TEMPORARY CHECK DAM**

**POLE PROTECTION NOTES**

1. APPLY PROTECTIVE WRAPPING TO EXISTING WOODEN POLES AT LOCATIONS SHOWN BELOW.
2. PROTECTIVE WRAPPING SHALL BE SECURED TIGHT AROUND THE POLE AS RECOMMENDED BY THE MANUFACTURER.
3. EXISTING IDENTIFICATION BUTTONS SHALL BE RAISED IN THE INCREMENTS OF 12 INCHES TO APPROXIMATELY 36 INCHES ABOVE THE PROPOSED GROUND.
4. THE CONTRACTOR SHALL PROVIDE A PERMANENT ALUMINUM TAG NEXT TO THE POLE BUTTON STATING HOW MANY FEET THE POLE BUTTON WAS RAISED ABOVE THE ORIGINAL LOCATION.
5. "CUNAP WRAP" SUPPLIED BY TENINO WOOD PRESERVATIVES, INC., SEATTLE, WASHINGTON MAY BE USED FOR THE PROTECTIVE WRAPPING. OTHER PRODUCTS MAY BE USED IF APPROVED BY KETCHIKAN PUBLIC UTILITIES.



**UTILITY POLE TREATMENT DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH: P: \KTN\71494\DR\STATE\—ENVDET		
PLOT: P: \—LIB\—PLOT\MPLOTF.PCP(25) OR MPLOTH.PCP(50)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

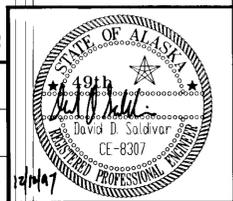
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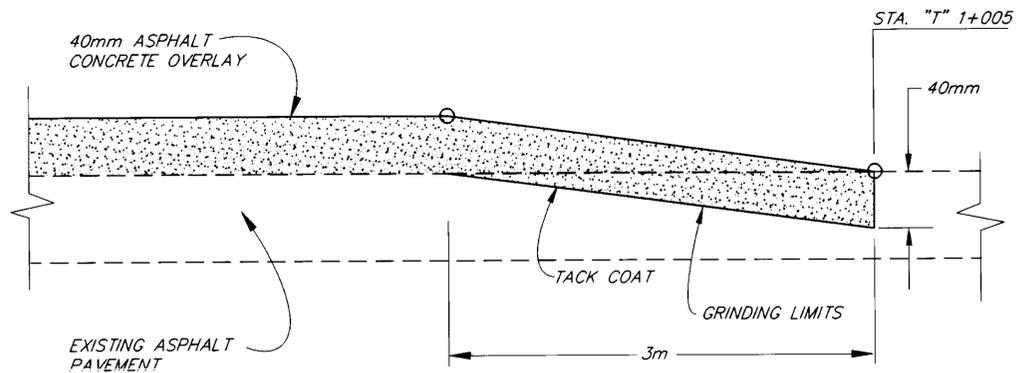
SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494

ALASKA

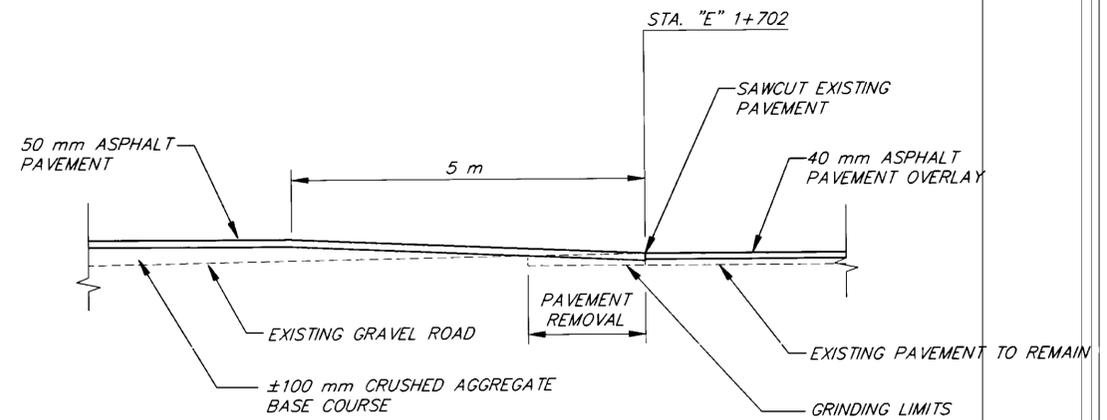
**MISCELLANEOUS DETAILS**

DESIGNED BY: BLACKBURN	PROJECT NO. 71494
DRAWN BY: W. HICKOK	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 19 OF 24

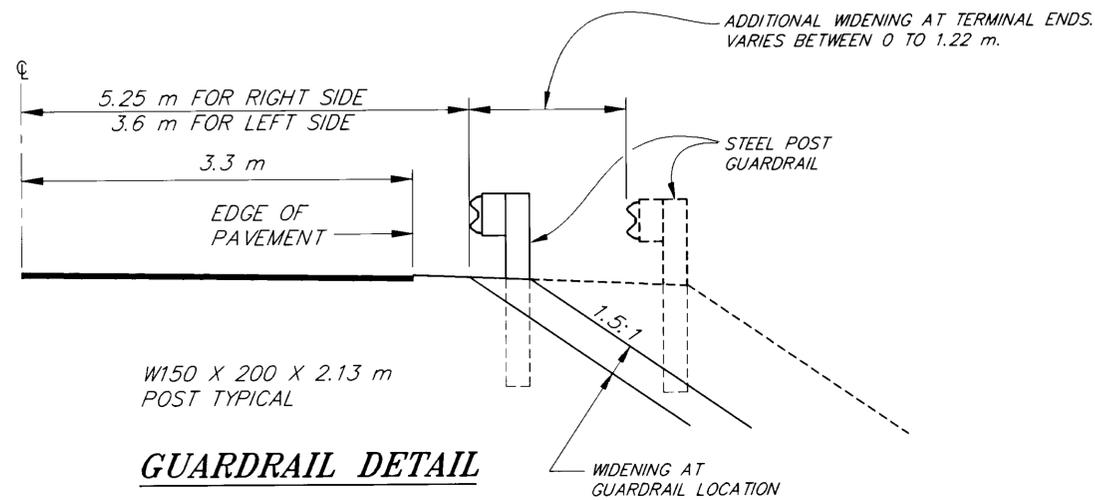




**OVERLAY MATCH DETAIL**



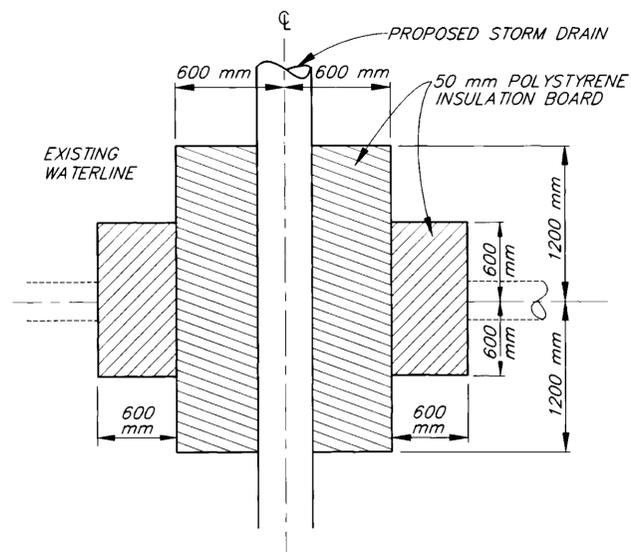
**PAVEMENT JOINT DETAIL**



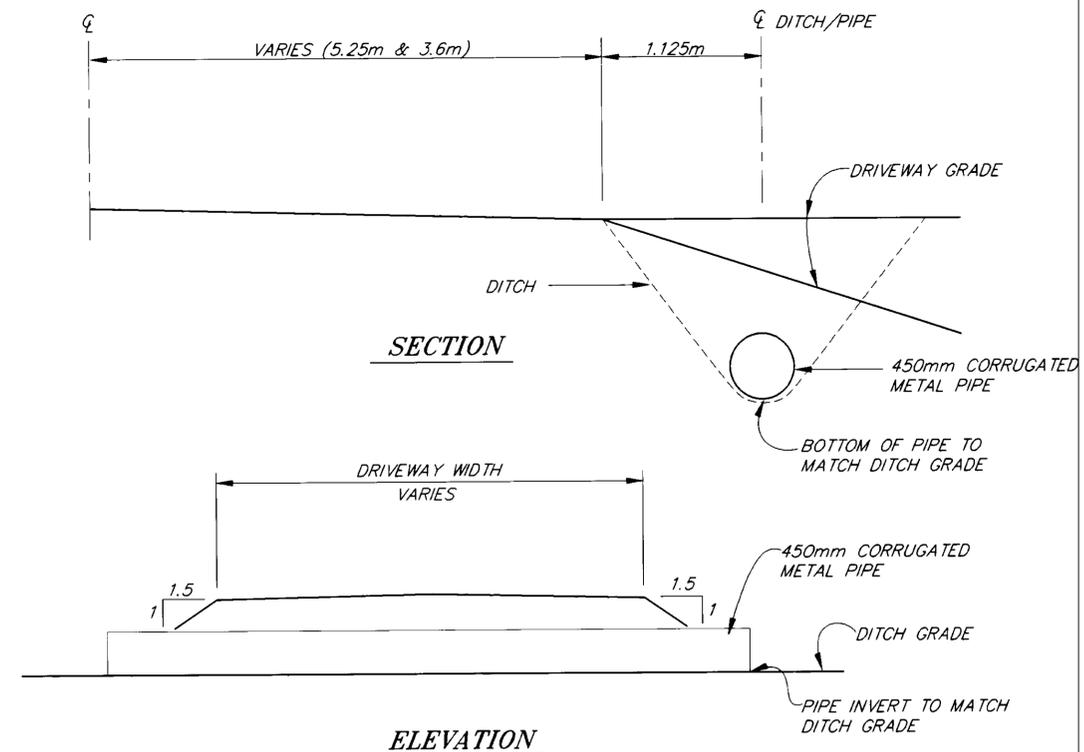
**GUARDRAIL DETAIL**

**NOTES:**

1. INSTALL INSULATION AS SHOWN.
2. WRAP AROUND INSULATION WITH R-FACTOR EQUAL TO 50 mm RIGID BOARD SHALL CONFORM TO AAHSTO M-230, TABLE 1.
3. SEE SHEET 7 FOR LOCATIONS.



**INSULATED PIPE CROSSING DETAIL**



**DRIVEWAY CULVERT INSTALLATION**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\K7N\71494\DR\STATE\DET3		
PLOT: P:\-LIB\-PLOT\MPL0TF.PCP(25) OR MPL0TH.PCP(50)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

KETCHIKAN

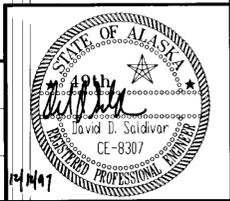
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

DESIGNED BY:  
**BLACKBURN**  
DRAWN BY:  
**W. HICKOK**  
CHECKED BY:  
**D. SALDIVAR**

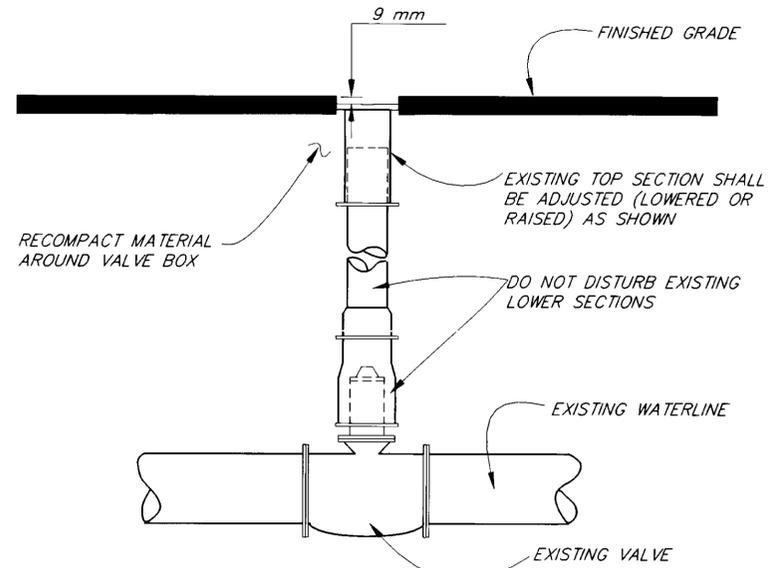
PROJECT NO.  
**71494**  
DATE:  
**JULY, 1997**  
SHEET **20** OF **24**

**MISCELLANEOUS DETAILS**

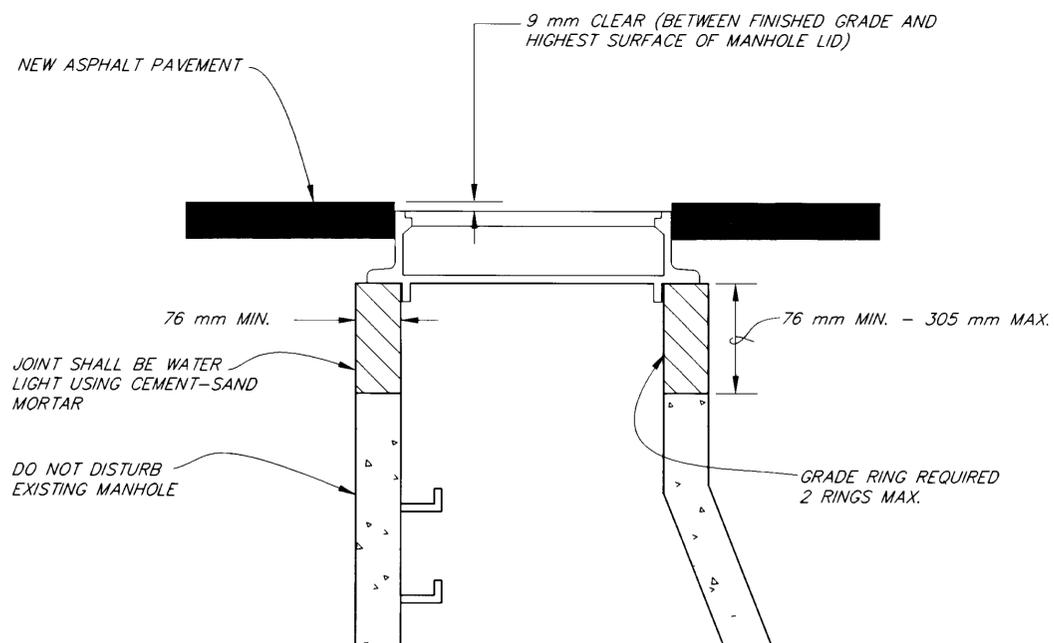


**GENERAL NOTES**

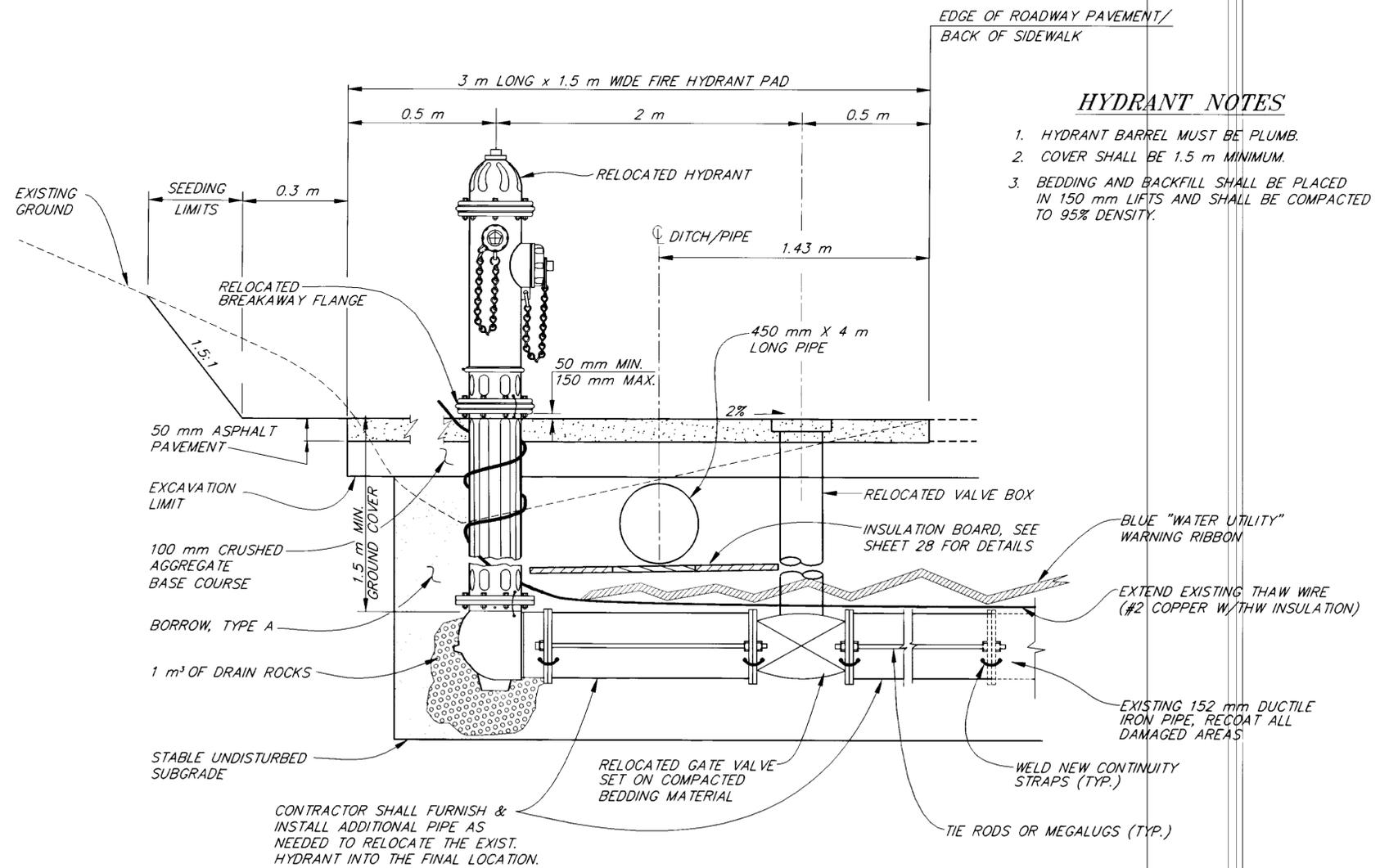
1. GRADE RINGS SHALL BE RESET IN FULL BED OF MORTAR. DESIGN AND STRENGTH REQUIREMENTS FOR THE GRADE RINGS SHALL CONFORM TO ASTM DESIGNATION C-478.
2. THE CONTRACTOR CAN USE BRICKS AND MORTAR COMBINATION TO RAISE MANHOLE FRAME AND COVER TO NEW GRADE IF ADJUSTMENT IS LESS THAN THREE (3) INCHES.



**VALVE BOX  
ADJUSTMENT DETAIL**



**MANHOLE ADJUSTMENT DETAIL**



**HYDRANT NOTES**

1. HYDRANT BARREL MUST BE PLUMB.
2. COVER SHALL BE 1.5 m MINIMUM.
3. BEDDING AND BACKFILL SHALL BE PLACED IN 150 mm LIFTS AND SHALL BE COMPACTED TO 95% DENSITY.

**HYDRANT RELOCATION DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

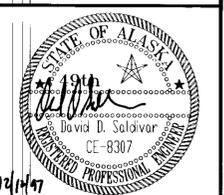
KETCHIKAN

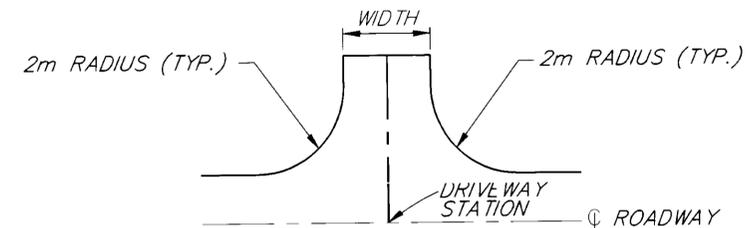
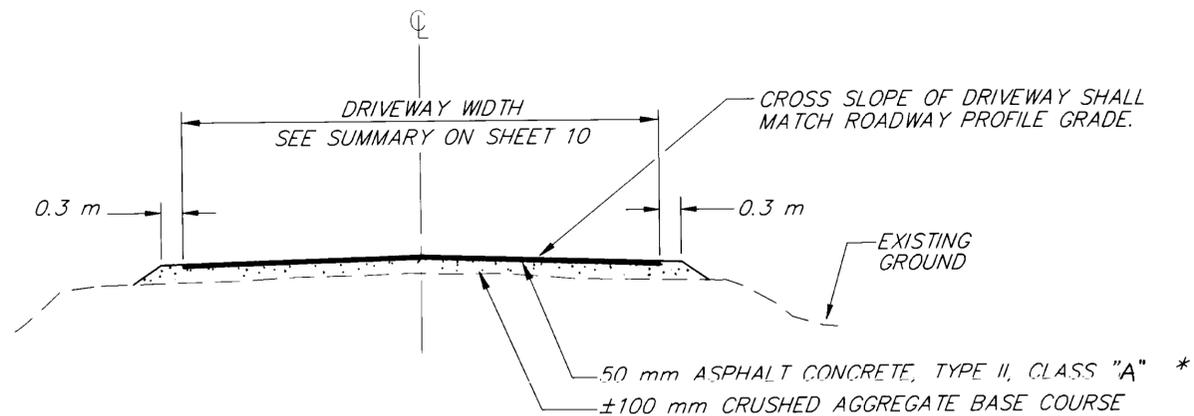
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

**UTILITY ADJUSTMENT DETAIL**

DESIGNED BY: BLACKBURN	PROJECT NO. 71494
DRAWN BY: W. HICKOK	DATE: JULY, 1997
CHECKED BY: D. SALDIVAR	SHEET 21 OF 24

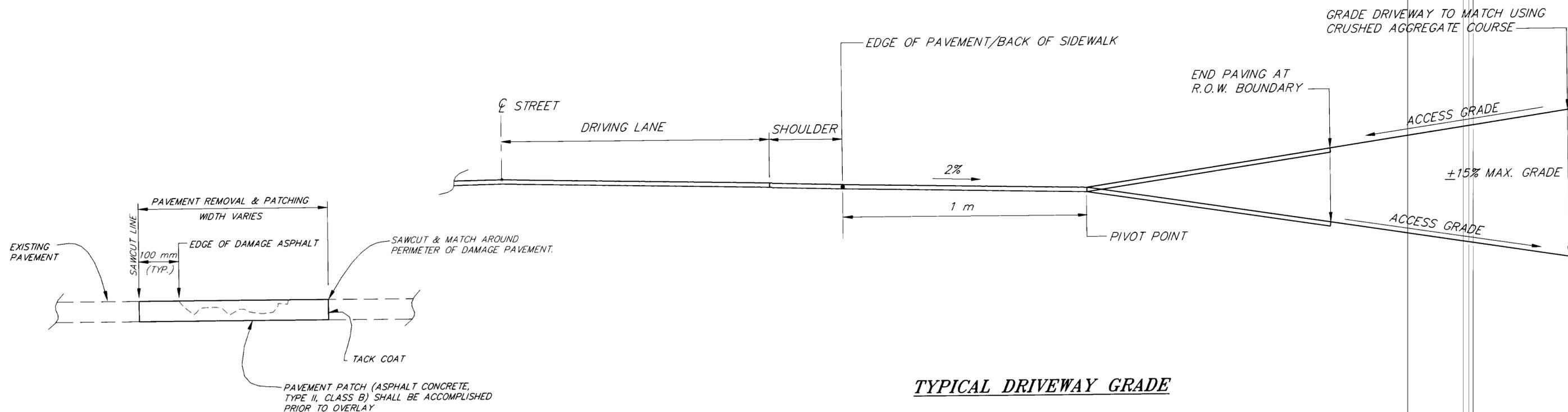




\* THE PAVING LIMIT SHALL BE TO THE ROW, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

**TYPICAL DRIVEWAY PLAN**

**TYPICAL DRIVEWAY SECTION**



**TYPICAL DRIVEWAY GRADE**

**PAVEMENT PATCH DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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PLOT: P: \-LIB\ -PLOT\MPL0TF.PCP(50) OR MPL0TH.PCP(100)		
BY:	DATE:	DESCRIPTION OF CHANGE:
<b>RECORD OF REVISIONS</b>		

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

KETCHIKAN

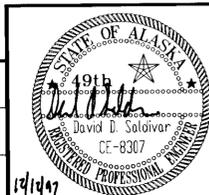
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494

ALASKA

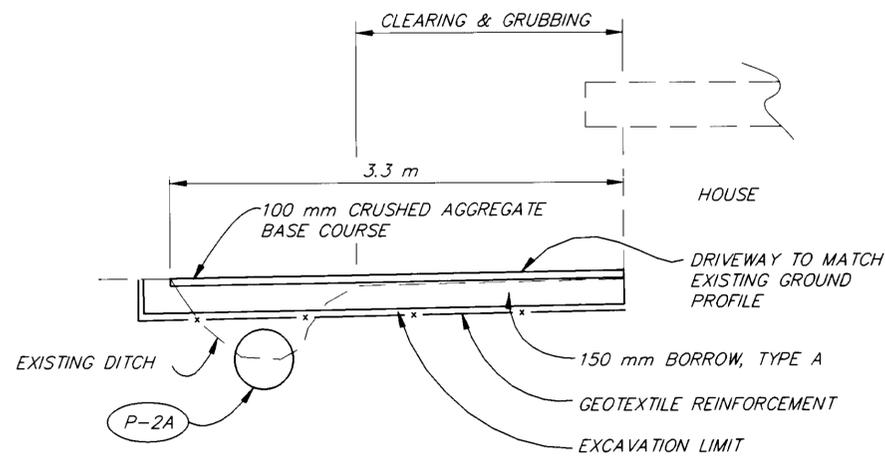
**DRIVEWAY DETAILS**

DESIGNED BY:  
D. BLACKBURN  
DRAWN BY:  
B.A.  
CHECKED BY:  
D. SALDIVAR

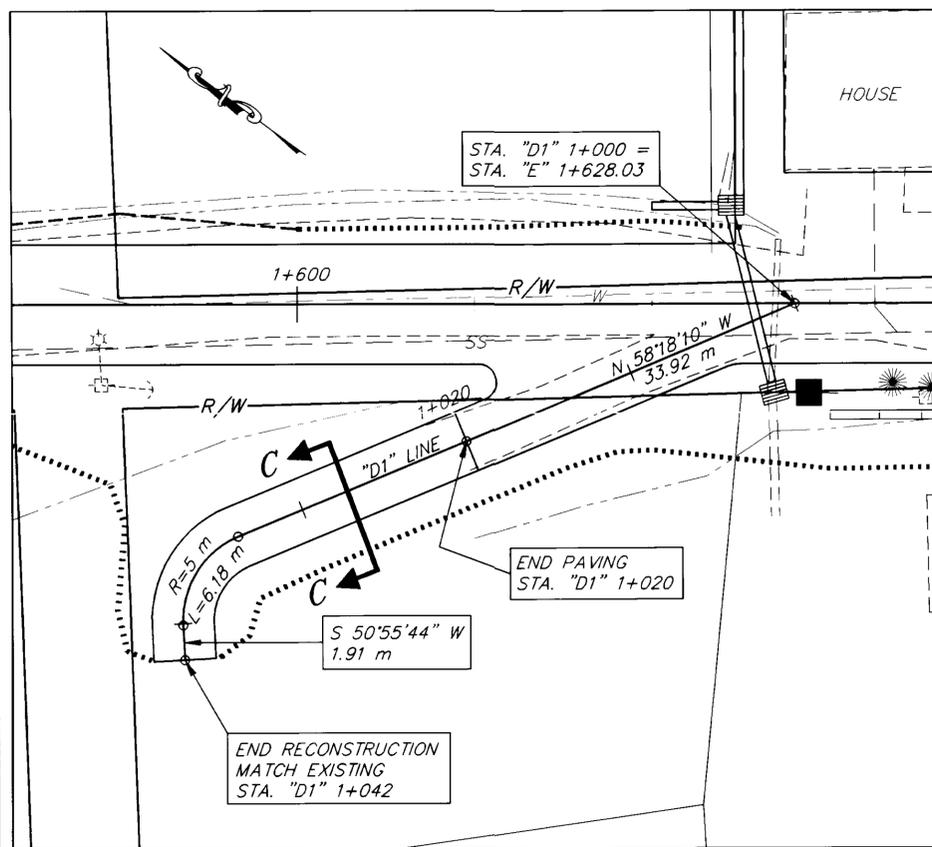
PROJECT NO.  
71494  
DATE:  
JULY, 1997  
SHEET 22 OF 24



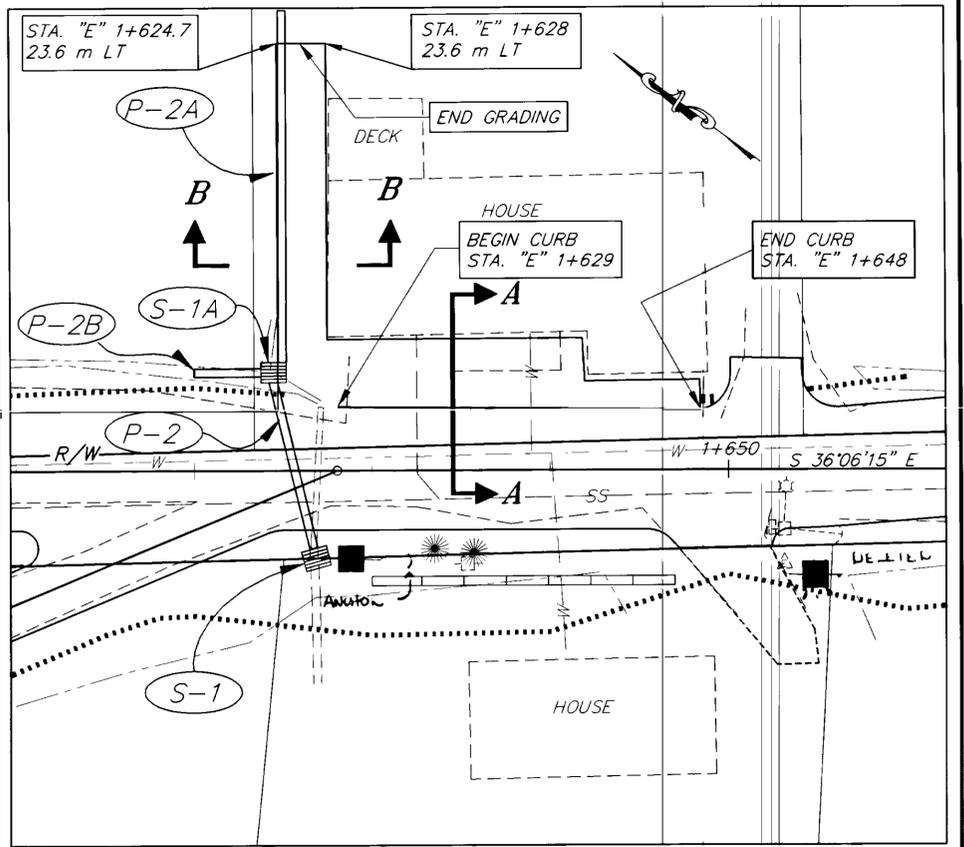
SHEET 22 OF 24



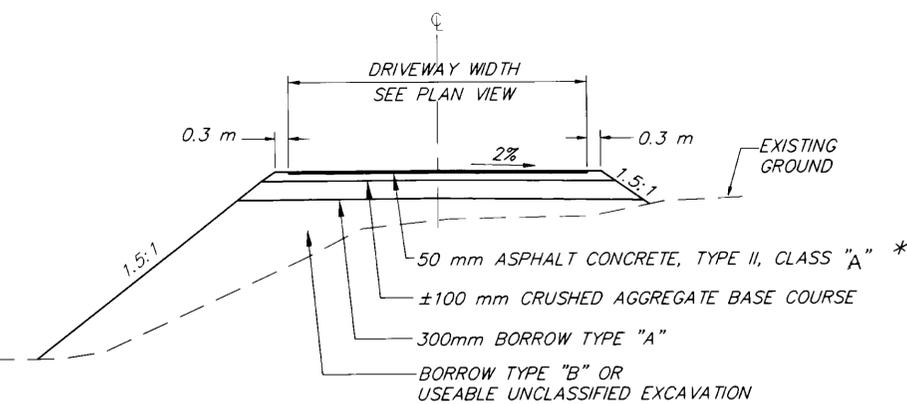
**SECTION B-B**



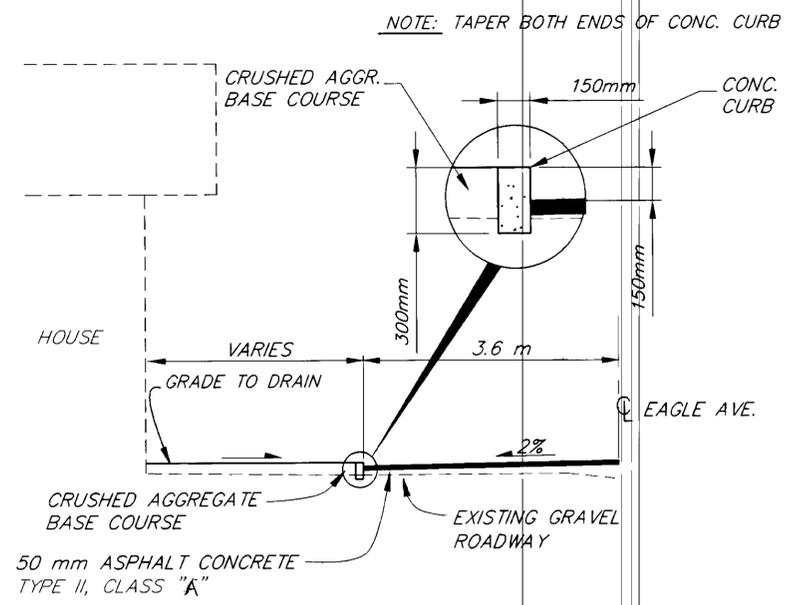
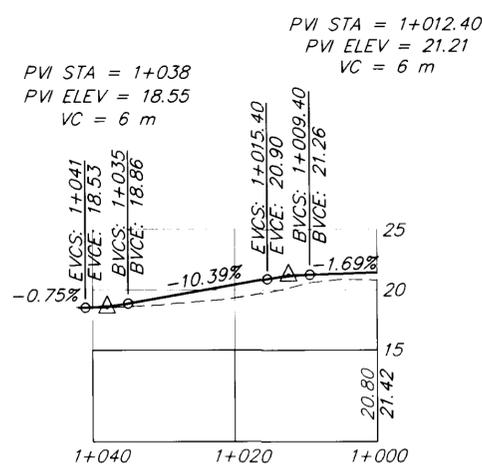
**EAGLE AVENUE - STA. 1+628 RT.**



**EAGLE AVENUE - STA. 1+635 LT.**



**SECTION C-C**



**SECTION A-A**

\* THE PAVING LIMIT SHALL BE TO THE ROW, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

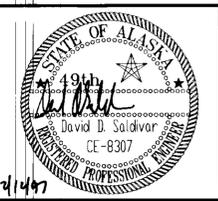
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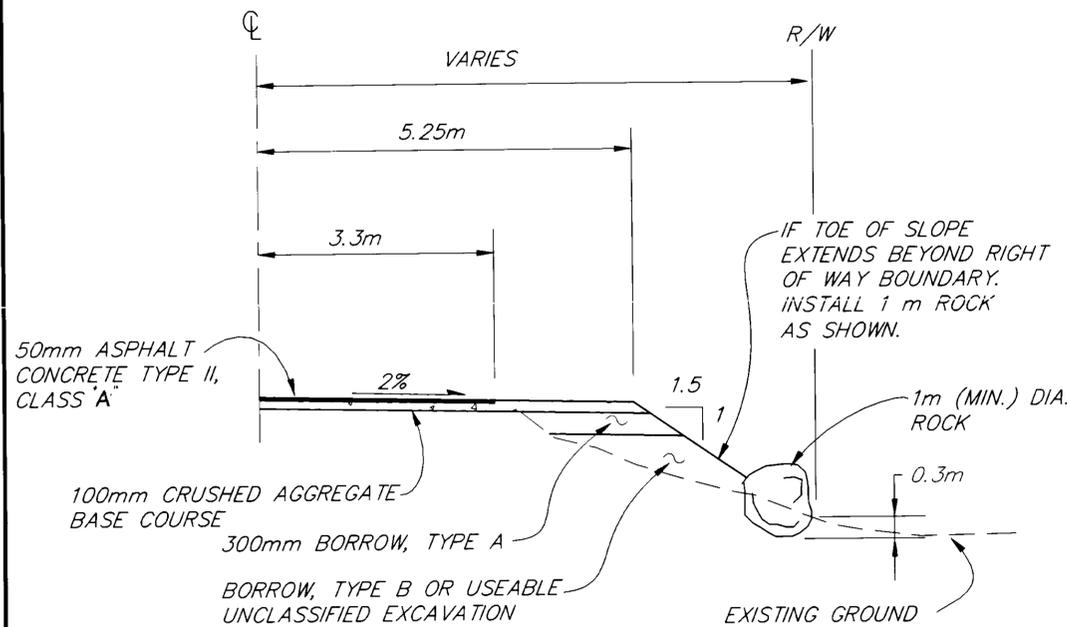
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BY:	DATE:
DESCRIPTION OF CHANGE:	

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

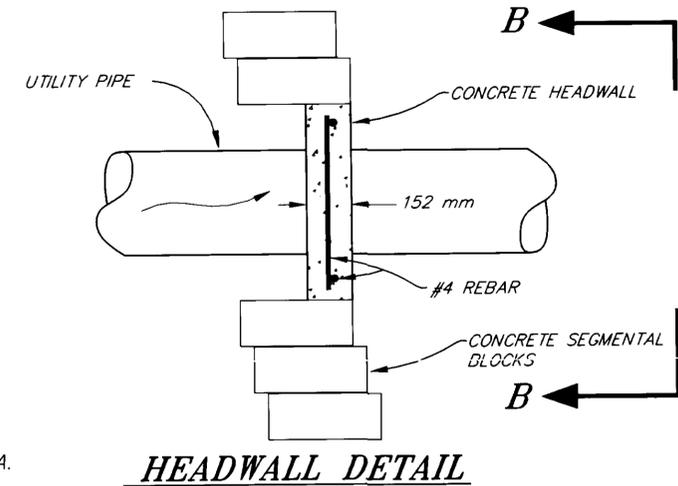
KETCHIKAN  
SAXMAN ROADS PAVING  
STP-0003(26) ~ 71494  
**DRIVEWAY RECONSTRUCTION**  
PLAN & PROFILES

ALASKA	DESIGNED BY: D. BLACKBURN	PROJECT NO. 71494
	DRAWN BY: R. SNYDER	DATE: JULY, 1997
	CHECKED BY: D. SALDIVAR	SHEET 23 OF 24

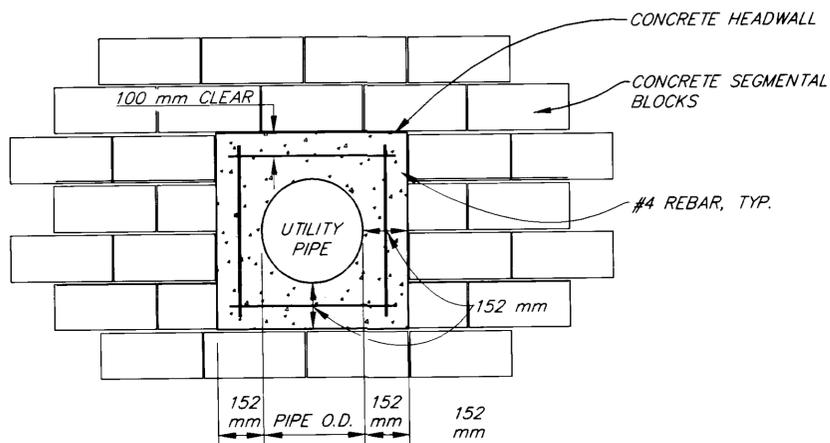




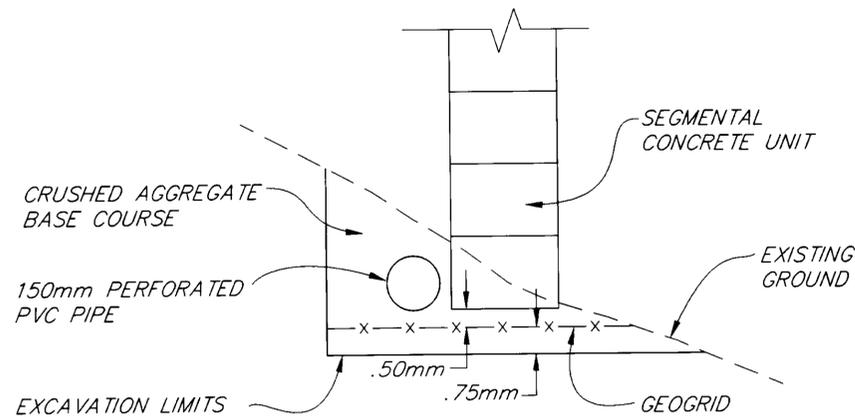
**TOE ROCK WALL DETAIL**  
**EAGLE AVENUE**  
 STA. 1+350, RT. TO STA. 1+575, RT.



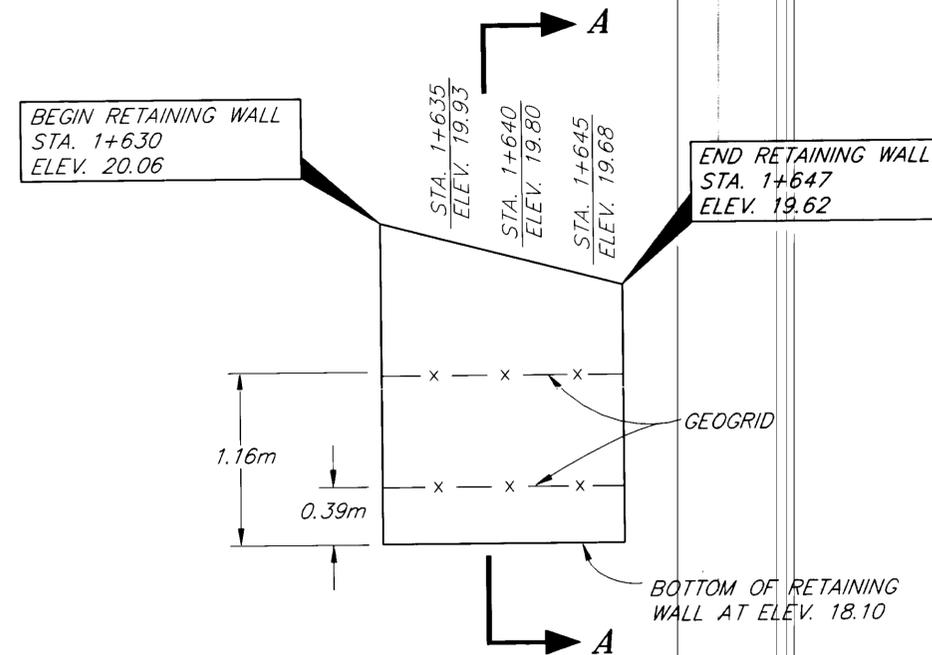
**HEADWALL DETAIL**



**SECTION B-B**



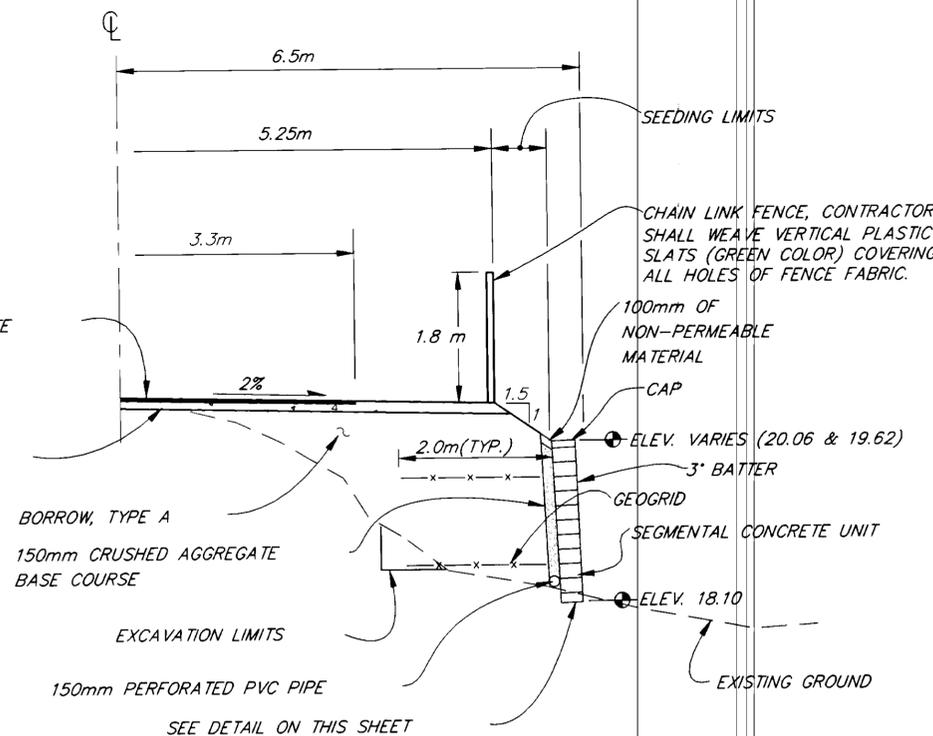
**BOTTOM OF RETAINING WALL DETAIL**



**SEGMENTAL CONCRETE RETAINING WALL**  
**EAGLE AVENUE**

50mm ASPHALT CONCRETE  
 TYPE II, CLASS B

100mm CRUSHED AGGREGATE  
 BASE COURSE



**SECTION A**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71494\DR\STATE\MISCDET		
PLOT: P:\-LIB\-PLOT\MPL0TF.PCP(50) OR MPL0TH.PCP(100)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

KETCHIKAN

SAXMAN ROADS PAVING  
 STP-0003(26) ~ 71494

ALASKA

DESIGNED BY:  
 D. SALDIVAR

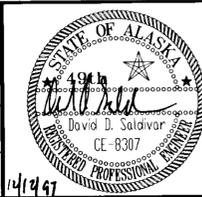
DRAWN BY:  
 W. HICKOK

CHECKED BY:  
 C. MORROW

PROJECT NO.  
 71494

DATE:  
 JULY, 1997

SHEET 24 OF 24



**RETAINING WALL DETAILS**

Missing pages 49-60.