

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT KETCHIKAN, TONGASS AVENUE TRAFFIC IMPROVEMENTS FM-0902 (13) / 68864 STRIPING, CURB, GUTTER & SIDEWALK, DRAINAGE AND OFFSTREET PARKING

'As-Built Plans'

South Coast, Inc
Dale F. Robbins
Oct. 16, 1989 to Sept. 6, 1990

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1	34

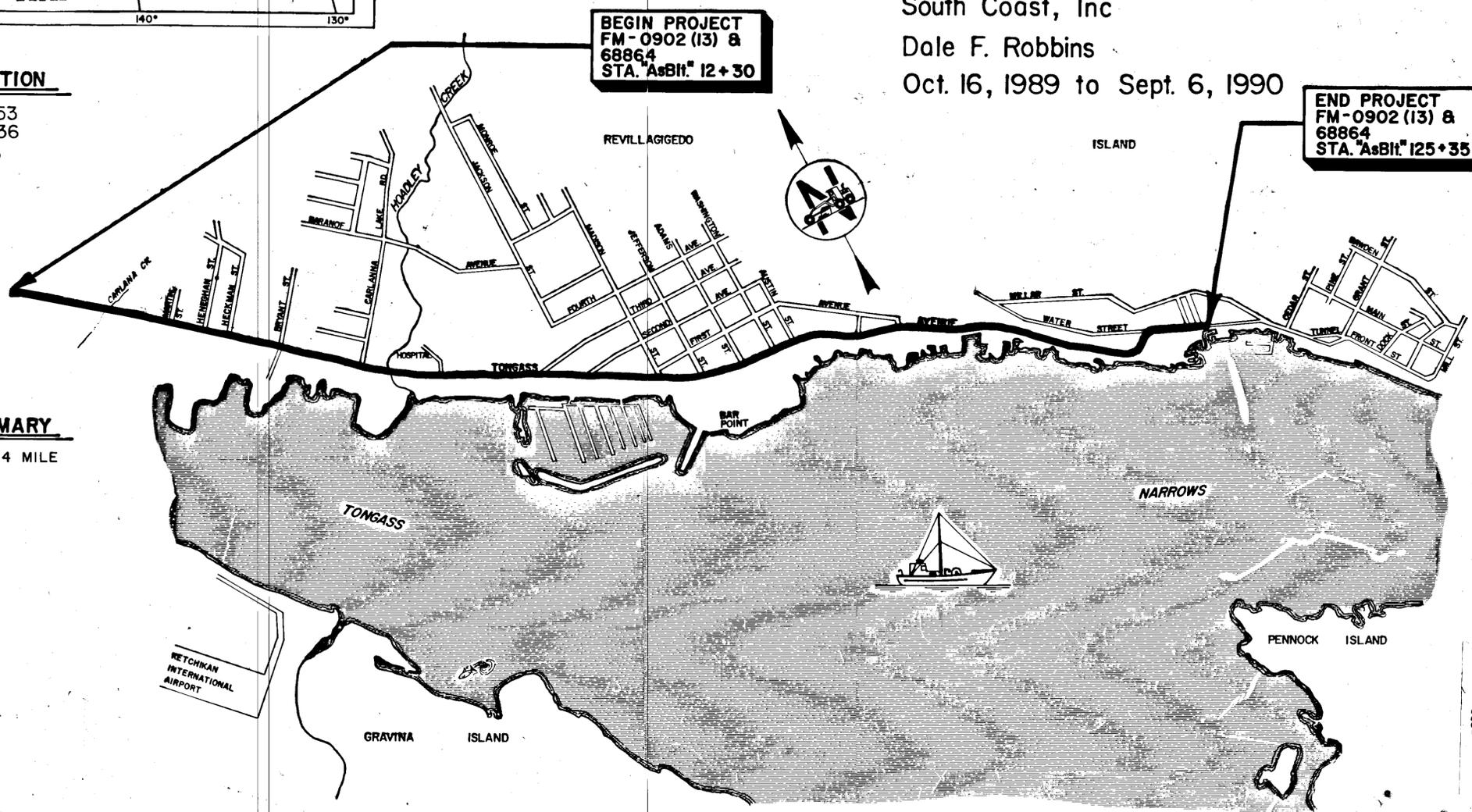
INDEX OF SHEETS	
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1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3	TRAFFIC CONTROL PLAN
4	SIDEWALK DETAILS & SUMMARY
5	SHUTTLE FERRY ENTRANCE TO MARTIN ST. PLAN & TYPICAL SECTION
6	MARTIN ST. TO HECKMAN ST. PLAN & TYPICAL SECTION
7	BRYANT ST. AREA, PLAN & TYPICAL SECTION
8	HOADLEY CREEK AREA, SITE PLAN
9	HOADLEY CREEK PARKING AREA LAYOUT PLAN & TYPICAL SECTION
10	BAR HARBOR AREA SITE PLAN
11	BAR HARBOR PARKING AREA LAYOUT PLAN & TYPICAL SECTION
12	SHUTTLE FERRY ENTRANCE TO MARTIN ST. DRAINAGE PROFILE & DETAILS
13	MARTIN ST TO HECKMAN ST HOADLEY CRK & BAR HARBOR PARK AREAS, DRAINAGE PROFILE & DETAILS
14	TONGASS AVE. AT HOADLEY CREEK RETAINING WALL "A"
15	TONGASS AVE. AT HOADLEY CREEK RETAINING WALL "B"
16	HOADLEY CRK. PARKING AREA RETAINING WALL GENERAL NOTES, SPECIFICATIONS, SUMMARIES
17	HOADLEY CREEK PARKING AREA RETAINING WALL
18	PIPE RAILING DETAILS
19	HOADLEY CREEK PARKING AREA STRIPING PLAN
20	BAR HARBOR PARKING AREA STRIPING PLAN
21-30	STRIPING PLANS - TONGASS AVE.
31-34	SIGNING SCHEDULE - TONGASS AVE.

DESIGN DESIGNATION

- A.D.T. (1989) = 20,753
- A.D.T. (2009) = 27,136
- D.H.V. (11 %) = 2985
- % T = 7%
- V = 35
- T.I. = 9.5

PROJECT SUMMARY

PROJECT LENGTH = 2.14 MILE



BEGIN PROJECT
FM-0902 (13) &
68864
STA. "AsBlt" 12+30

END PROJECT
FM-0902 (13) &
68864
STA. "AsBlt" 125+35

THE FOLLOWING STANDARD DRAWING ARE INCLUDED IN THIS SET OF PLANS:
A-1, B-04.00, B-05.00, C-01.02, C-02.00, C-03.01, D-01.01, D-05.10, D-20.01, D-23.00, D-24.00, D-26.01, I-20.01, M-05.00, S-00.00, S-05.00, S-30.01, T-20.00, T-21.01, T-22.01, M-20.1, & M-23.1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
Merrill
SOUTHEASTERN REGION DESIGN CHIEF Date 6/15/89



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
G. R. Higgins
DIRECTOR, SOUTHEAST REGION DESIGN & CONSTRUCTION Date 6-15-89

ESTIMATE OF QUANTITIES

SHEET NUMBERS

ITEM NUMBER	ITEM	UNIT	SHEET NUMBERS																	TOTAL QUANTITY		
			5	6	7	8	9	10	11	19	20	21	22	23	24	25	26	27	28		29	30
202(13)	REMOVAL OF CONCRETE CO#3	L.S.																				All Req'd (21.45)
120(1)	D.B.E. Adjustments 10%	C.S.																				All Required (-16,201.10)
202(1)	Removal of Structures & Obstructions	L.S.																				"
202(12)	Saw Cut	L.F.	900	886	236	636	-	709				72	36	28	104	40	136	36	58	66		3943-3774.9
203(1)	Site Preparation	L.S.										(Excavation = 757 C.Y.)										All Required
203(6B)	Borrow, Type "B"	TON	364	280	300	228	-	-														1172-186.04
203(5D)	Borrow, Type "D"	C.Y.	-	-	-	-	2220	-	275													2495-3187.45
301(1)	Crushed Aggregate Base Course	TON	209	217	63	153	191	21	437			16	6	5	25	11	29	8	9	19		144-9-1294.35
401(1)	Asphalt Concrete, Type II	TON	55.4	51.5	4.8	11.9	92.8	5.6	192.6			1.6	0.8	0.5	2.0	0.6	2.2	0.6	1.0	1.0		424-9-158.46
203(12)	UNCLASSIFIED EXCAVATION CO#2	Load Count																				B
401(2)	Asphalt Cement, AC-5	TON	3.32	3.09	0.29	0.71	5.57	0.34	11.56			0.09	0.05	0.03	0.11	0.04	0.13	0.04	0.06	0.06		25.49-23.84
501(1)	Class "A" Concrete	L.S.										(Class "A" Concrete = 29.1 C.Y.)										All Required
501(8)	Concrete Curb Stops	Ea.										18	30									48
503(1)	Reinforcing Steel	L.S.										(Reinforcing Steel = 1,756 lb.)										All Req'd
505(5)	Structural Steel Piles, Furnished	L.F.						175														175-160.8
505(6)	Structural Steel Piles, Driven	Ea.						9														9
501(9)	CLASS "A" CONCRETE PAVED FOOTING CO#1	L.S.																				All Req'd (4779.0)
505(2)	Pile socketting	Ea.						9														9
506(1)	Treated Timber	L.S.										(Treated Timber = 12.43 m3)										All Required
627(10)	Adjustment of Valve Box CO#6	Ea.																				2
603(14)	18 inch Corrugated Aluminum Pipe	L.F.	597	600	13	318		122														1659-1748.5
604(1)	Storm Sewer Manhole	Ea.																				1
604(5A)	Toilets, Type A	Ea.	9	5	2	5		2														23
604(5B)	Toilets, Type B	Ea.	1																			1
604(4)	Adjust Existing Manhole	Ea.																				3
608(1-4)	Concrete Sidewalk, 4 inch depth	S.Y.	305	410	188	185		402				20	18	8	79	33	108	25	21	40		1842-1614.81
608(1-6)	Concrete Sidewalk, 6 inch depth	S.Y.	95	113	-	56		24														288-315.02
609(2)	Curb & Gutter, Type I	L.F.	900	886	236	636		709				72	36	28	104	40	136	36	58	66		3943-3376.18
611(1)	Class I Riprap	C.Y.					184															184-133.51
611(2)	Class II Riprap	C.Y.					564															564-430.82
615(1)	Standard Signs	S.F.							8.00	8.00	9.50	64.91	125.98	38.00	62.24	133.24	75.74	14.83	24.00	21.83		586-27585.78
625(1)	Pipe Handrail	L.F.	12			291		69														372-352.9
640(1)	Mobilization & Demobilization	L.S.																				All Req'd
641(1)	Temporary Erosion & Pollution Control	C.S.																				"
627(11)	WATER SERVICE CONNECTION REPAIR CO#4	L.S.																				All Req'd
642(1)	Construction Surveying by the Contractor	L.S.																				"
643(2)	Traffic Maintenance	L.S.																				"
643(3)	Permanent Construction Signs	ea. per day	126	120	48	84		18				24										420-975
643(4)	Construction Signs	ea. per day	210	200	80	140		30				40										700-570
643(5)	Type II Barricades	ea. per day	252	240	96	168		36				48										840-3537
643(7)	Traffic Cone	ea. per day	1659	1580	248	378		45				944										4185-4199.4
643(15)	Flagging	man-hr.	188	164	112	112		64				160										800-379
645(1)	Training Program	man-hr.																				500
670(1)	Painted Traffic Markings	L.S.										(Painted Traffic Markings = 70,100 L.F.)										All Req'd
627(6)	FIRE HYDRANT Relocation CO#7	L.S.																				All Req'd
670(9)	Removal of existing striping	L.S.										(Removal of existing striping = 23,975 L.F.)										All Req'd
603(22)	REVISED STORM DRAINAGE SYSTEM CO#8	L.S.																				All Req'd
675(1)	Adjust Utility Vaults	L.S.																				All Req'd
625(2)	BAR HARBOR Handrail	L.S.																				All Req'd
685(1)	Stream Enhancement	L.S.																				All Req'd
202(14)	REMOVAL OF MISC. TREES & FENCE CO#5	L.S.																				All Req'd
501(9)	Wheel Chair Ramps CO#8	Ea.																				5

STATION TO STATION	OFFSET	REMARKS
25.82" - 44.50"		Remove wood stairs ramp + deck, Conc. bridge wingwall, wood + concrete walls, foundation wall, see sht. 8.
245.82" - 67.90"		Remove house Mass, see sht. 10
" " - 68.70"		" " " " " "
245.82" - 14.00"		Salvage 1 reset mailboxes (3)
" " - 40.00"		" " " " " "

* Out of numerical sequence

BASIS OF ESTIMATE

ITEM NO.	ITEM	UNIT	EST. FACT	5	6	7	8	9	10	11	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL UNITS
203(11)	Site Preparation (Unclassified Excavation)	C.Y.	-	167	93	27	81	122	58	100	-	-	-	29	7	7	19	12	23	8	0	4	757
203(6B)	Borrow (Select Material, Type "B")	TON	2 TONS											(See Estimate of Quantities)									
301(3)	Crushed Aggregate Base Course	TON	2 TONS											(See Estimate of Quantities)									
401(5)	Asphalt Concrete, Type II	TON	123 3/4"											"	"	"	"	"	"	"	"	"	
401(6)	Asphalt Cement, AC-5	TON	6" 401(5)											"	"	"	"	"	"	"	"	"	
501(1)	Class "A" Concrete	C.Y.	150 5/8"					29.1															29.1
503(1)	Reinforcing Steel	Pound	0.67 1/8" 104 1/8" 10.5"					1,756															1,756
506(1)	Treated Timber	MBM	-					0.50	11.11	-	0.82												12.43
670(9)	Painted Traffic Markings	L.F.	29,000 1/4" Striping								3,000	2,216	6,239	5,064	6,799	5,935	7,235	9,015	7,953	4,648	5,111	6,585	70,100
670(10)	Removal of Exist. Striping	L.F.	"										260	2,918	3,283	2,700	3,306	860	2,458	2,400	2,800	990	23,975

* Thermoplastic



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
ESTIMATE OF QUANTITIES

APPROVED BY: *Conwell* 6-15-89

APPROVED BY: *John M. Henry* 6-15-89

SCALE: NONE
CHECKED: W.H. DATE: 6-15-89
DRAWN: JEM
DATE: 6-15-89

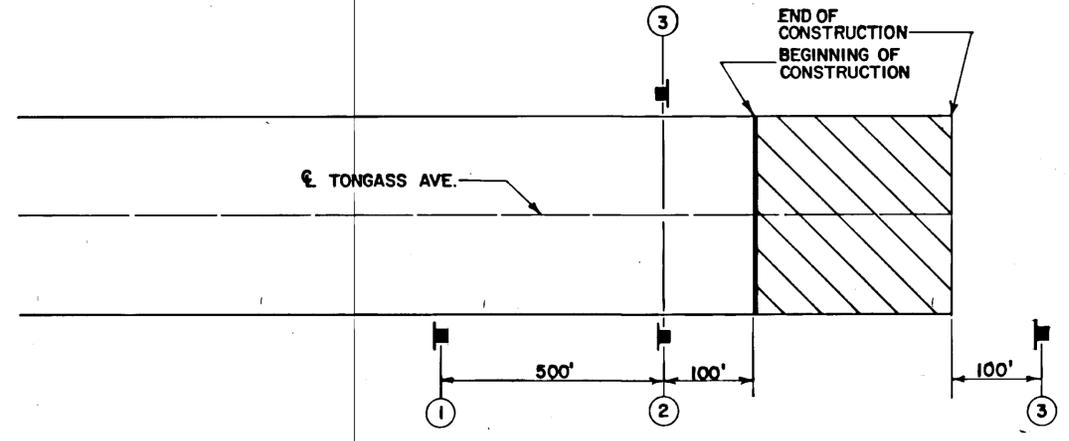
SHEET 2 OF 34

SIGN NO.	CODE NO.	LEGEND	SIZE	NO. REQ'D.
1	G20-1	ROAD CONSTRUCTION NEXT 2 MILES	60" x 36"	2
2	CW20-1F	ROAD CONSTRUCTION AHEAD	48" x 48"	2
3	G20-2	END CONSTRUCTION	60" x 24"	2
PERMANENT CONSTRUCTION SIGNS=			82 S.F.	

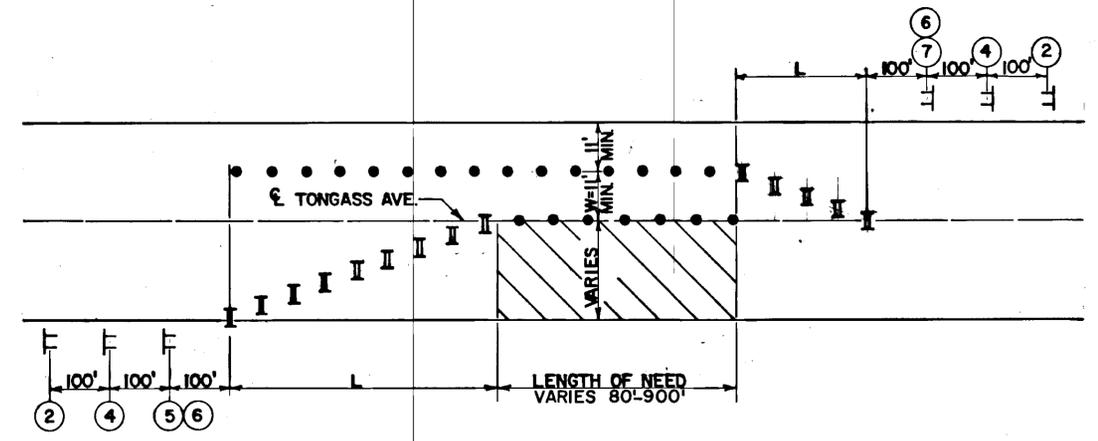
SIGN NO.	CODE NO.	LEGEND	SIZE	NO. REQ'D.
4	CW20-7	SYMBOL OF FLAGMAN SUPPLEMENTAL PLATE 200 FEET	30" x 30" 24" x 18"	2
5	CW1-3L	Left Turn Arrow	30" x 30"	1
6	CW13-1	15 MPH	18" x 18"	2
7	CW1-3R	Right Turn Arrow	30" x 30"	2
2	CW-20-1F	ROAD CONSTRUCTION AHEAD	48" x 48"	2
CONSTRUCTION SIGNS =			57.75 S.F.	

LEGEND

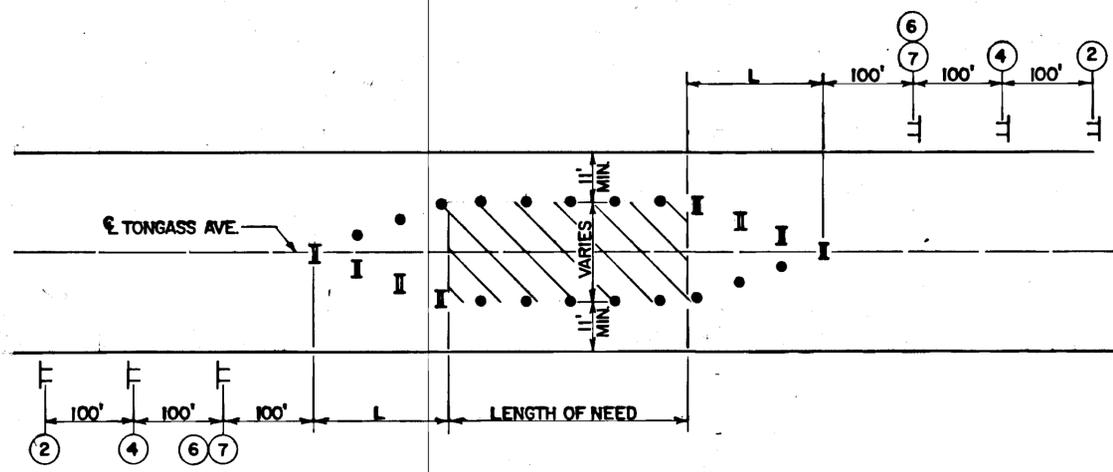
- — FIXED SIGN
- — PORTABLE SIGN
- ⊙ — SIGN NUMBER, SEE SIGN SCHEDULE ABOVE
- — TRAFFIC CONES
- ▨ — WORK AREA
- II — TYPE II BARRICADE



PROJECT IDENTIFICATION SIGNING DETAILS
TYPICAL EACH END OF PROJECT NO SCALE



TRAFFIC CONTROL PLAN FOR WORK AREAS TO RIGHT OF CENTER LINE
T.C.P. FOR WORK AREAS TO LEFT IS SIMILAR NO SCALE



TRAFFIC CONTROL PLAN FOR WORK AREAS ALONG CENTER LINE
NO SCALE

TRAFFIC CONTROL NOTES

- TAPER FORMULA = $L = \frac{WS^2}{60}$ WHERE, L = MINIMUM LENGTH OF TAPER, W = WIDTH OF OFFSET FROM CENTERLINE, & S = POSTED SPEED LIMIT PRIOR TO WORK.
- MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES IN A TAPER SHALL BE EQUAL IN FEET TO THE POSTED SPEED LIMIT.
- CONSTRUCTION ACTIVITIES ON TONGASS AVE. SHALL BE LIMITED TO HOURS OTHER THAN 7:00 A.M. TO 8:30 A.M. & 4:00 P.M. TO 6:00 P.M. TWO-WAY TRAFFIC ON TONGASS AVE. SHALL BE MAINTAINED AT ALL TIMES. THRU-TRAFFIC LANES SHALL BE A MINIMUM OF 11' WIDE.
- THE CONTRACTOR SHALL DESIGNATE AN EMPLOYEE WHO SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES. SEE SECTION 643-1.03 OF THE STANDARD SPECIFICATIONS FOR MORE COMPLETE DESCRIPTION OF THIS WORK.
- OFFSTREET PARKING SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE PARKING IS REMOVED FROM TONGASS AVENUE OR STRIPING WORK BEGUN. NEW SIGNS MAY BE INSTALLED BUT SHALL REMAIN COVERED UNTIL ALL OTHER WORK INCLUDING STRIPING IS COMPLETE.

LOCATION	WORK ACTIVITY	EST. Duration Days	Type II Barricades		Traffic Cones		Perm. Constr. Signs		Constr. Signs		Flagging M.H.
			Each	Each/Day	Each	Each/Day	Each	Each/Day	Each	Each/Day	
Sta. 12+30-21+30	Curb, Gutter, SW, Drainage	21	12	252	79	1659	6	126	10	210	188
22+30-30	"	20	"	240	79	1580	6	120	10	200	164
35+00-38+00	"	8	"	96	31	248	6	48	10	80	112
46+30-48+80	"	14	"	168	27	378	6	84	10	140	112
67+40-68+20	"	3	"	36	15	45	6	18	10	30	64
12+30-125+35	Striping	4	"	48	236	944	6	24	10	40	160
HOADLY CREEK PARK AREA	Curb, Gutter, SW, Grading, Paving, Drainage	45	-	-	-	-	-	-	-	-	-
BAR HARBOR PARK AREA	"	35	-	-	-	-	-	-	-	-	-
TOTAL				640		4854		420		700	800
				3537		10264		225		570	372

* NOTE: WORK AREAS MAY OVERLAP. FOR ESTIMATING PURPOSES ONLY.



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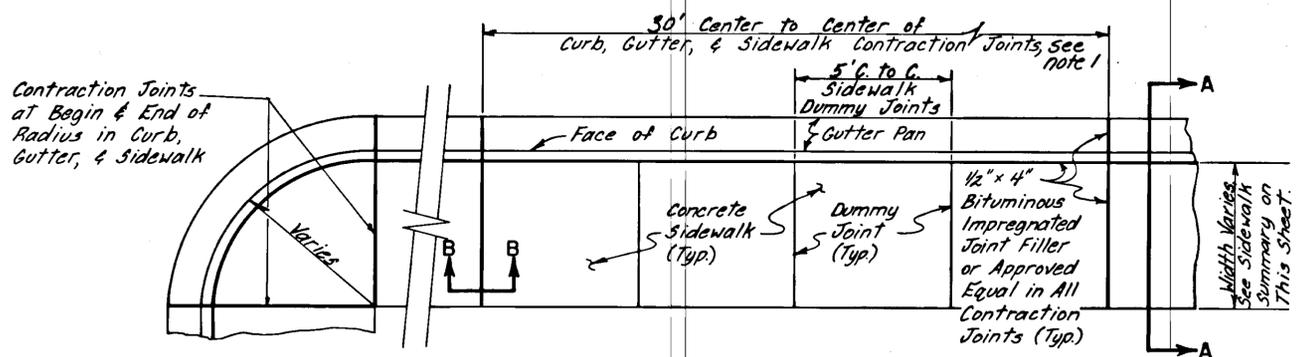
TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864

TRAFFIC CONTROL PLAN

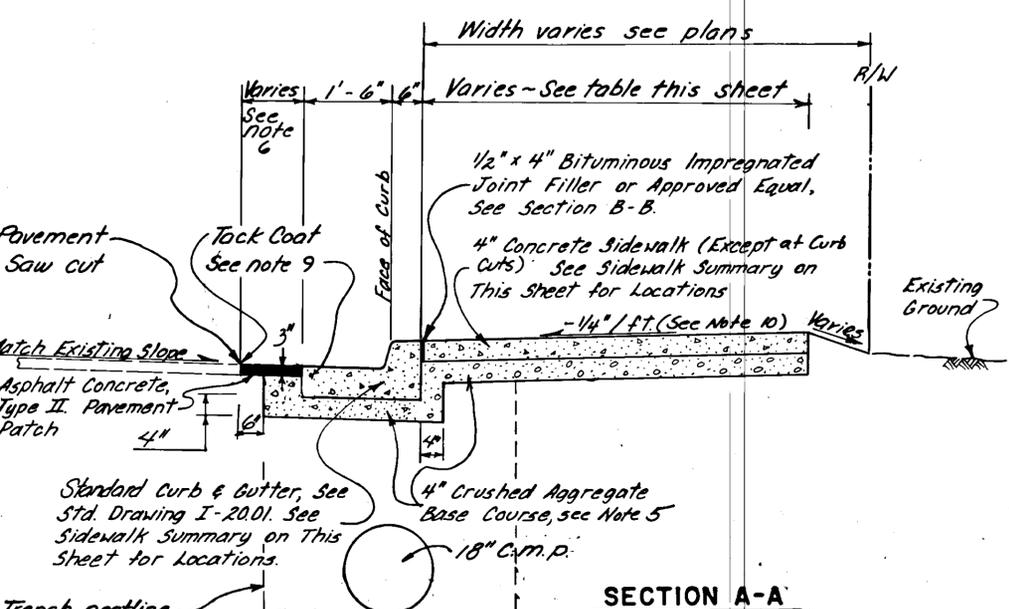
APPROVED BY: *Memill* 6-15-89

APPROVED BY: *John W. Henry* 6/15/89

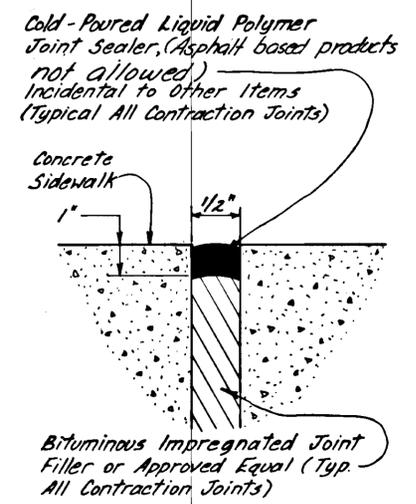
SCALE: AS SHOWN DESIGNED: W.H. DRAWN: JEM SHEET 3 OF 34
CHECKED: G.R.H. DATE: 6-15-89



PLAN



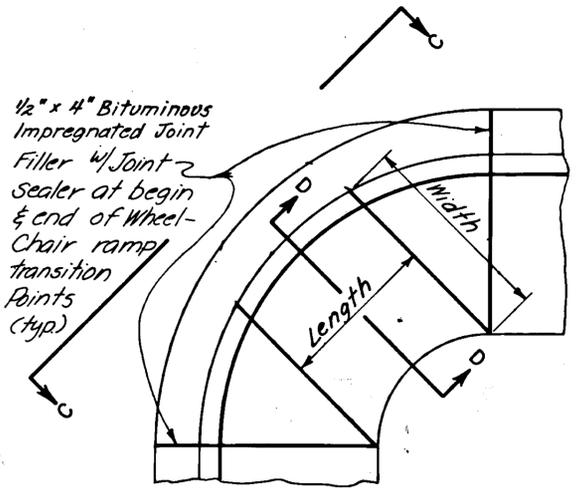
SECTION A-A



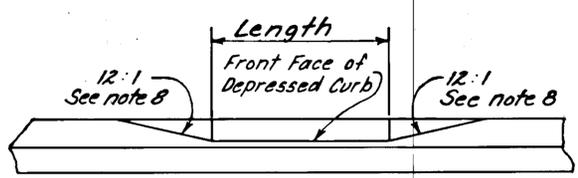
SECTION B-B

CURB, GUTTER, & SIDEWALK CONTRACTION JOINT DETAILS

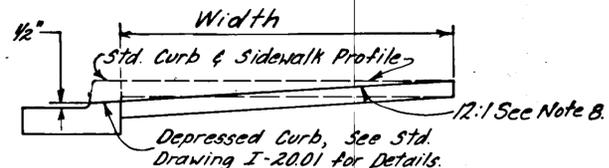
NO SCALE



PLAN



SECTION C-C



SECTION D-D

WHEELCHAIR RAMP DETAILS

NO SCALE

GENERAL NOTES

- Sidewalk contraction joints shall be opposite curb & gutter contraction joints. Contraction joints shall be spaced at 30 ft intervals with dummy joints equally spaced between them at 5 ft intervals.
- Bituminous joint filler, 1/2" by depth of sidewalk or curb & gutter shall be used between drainage structures & sidewalk or curb & gutter. See Sht. 7 for similar details.
- 6" depth concrete sidewalk contraction joints shall use 1/2" x 6" bituminous impregnated joint filler or approved equal.
- Dummy joints shall be constructed as 3/8" x 1/2" deep grooves.
- Excavation & bed preparation for curb, gutter, sidewalks, culvert pipe & parking sites construction shall not be measured directly for payment. See Sections 203.301 & 603 of the Special Provisions. Concrete subgrade may be encountered during excavation for curb, gutter & sidewalks. "As Built" Sta. 59 - And to E.O.P.
- Pavement patch width = 1'-0" (at new curb & gutter)
Pavement patch width = 1'-0" (at new wheelchair ramp)
Pavement patch width = 3'-0" (at culvert locations)
- Wheelchair ramps shall be constructed as detailed on this sheet at locations designated by a star on the plan sheets.
- Wheelchair ramps, where required, shall have a length and width of 5 ft. The transition length at the face of curb shall be 4'. At curb radii and all other locations where desirable dimensions cannot be attained, the ramp length shall be 4 ft. Ramp width shall be the full width of sidewalk. Transition lengths shall be as long as possible, 12:1 being the desired slope; 18 inches the minimum transition length. Broom finish.
- Tack coat, CSS-1 between foundation structures exist pavement & asphalt pavement. See Sect. 402 of the Special Provisions.
- "As Built" 48+10; 22' Rt. to "As Built" 48+76; 22' Rt. slope sidewalk away from curb. See Sht. 8 for details.
- Sixteen wheelchair ramps in existing viaduct require special treatment. See construction detail, sht. 20.
Wheelchair Ramps Continued, C.D. B* 113+50 Rt. 113+60 Rt.
84+30 Lt. 117+40 Rt. 117+30 Rt. 90+68 Lt. 91+50 Lt. 92+95 Lt.
91+01 Lt. 91+63 Lt.

CURB, GUTTER & SIDEWALK SUMMARY

Station to Station	Face of Curb	Sidewalk Length	Sidewalk Width	Remarks	
"As Bilt" 12+30	"As Bilt" 21+30	22'	9'0"	4'6"	New Sidewalk - See Sht. 5
" " 22+20	30+68	22'	8'38"	5'6"	" " " " " 6
" " 35+73	37+70	22'	2'36"	7'6"	" " " " " 7
" " 40+29	46+70	22'	4'	4'6"	" " " " " 8
" " 46+70	48+77	22'	20'7"	6'6"	" " " " " 11
"A" 0+29.65	"A" 1+42.52	13'6"	11'3"	4'0"	" " " " " 9
" " 0+29	" " 0+29.65	8'6"	2'75"	-	New Hoodley Crk. Curb/gutter
"As Bilt" 67+41	"As Bilt" 68+21	22'	8'0"	7'6"	" Sidewalk
" " 2+02.5	" " 67+41	29'22"	18'3"	4'0"	" " " " " 10
" " 0+48	" " 0+48	36'	4'46"	-	New Bar Harbor Curb only
" " 0+30	" " 2+02	36'	1'72"	4'6"	" Sidewalk
" " 0+30	" " 2+01	19'36"	18'24"	6'18"	" S.W. Islands

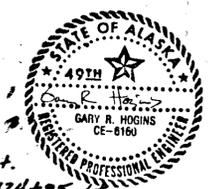
CURB CUT SUMMARY

Station to Station	Lt.	Rt.	Sidewalk	Remarks	
"As Bilt" 43-	"As Bilt" 13-	22'	6"	30'	See Sht. 5
" " 43+20	" " 13+80	22'		24'26"	" " " "
" " 44+15	" " 44+15	22'		20'	" " " "
" " 15+60	" " 15+60	22'		28'	" " " " DELETED
" " 18+30	" " 18+30	22'		32'	" " " "
" " 19+10	" " 19+10	22'		30'56"	" " " "
" " 20+25	" " 20+25	22'		32'36"	" " " "
" " 22+30	" " 23+35	22'		10'56"	" " " " 6
" " 23+75	" " 23+75	22'		32'	" " " "
" " 25+50	" " 25+50	22'		29'25"	" " " "
" " 27+80	" " 27+80	22'		28'	" " " "
" " 47+00	" " 47+00	22'		34'45"	" " " " 9
" " 0+60	" " 1+10	13'75"		36'	" Z @ 11B EACH
" " 0+60	" " 0+60	30'		24'22"	" " " " 11
" " 1+70	" " 1+70	30'		24'	" " " " 11

WHEELCHAIR RAMP SUMMARY

Station	Lt.	Rt.	Remarks	Station	Lt.	Rt.	Remarks
"As Bilt" 13+30	22'	22'	See Sht. 5	33+65	22'	22'	See Sht. 22
" " 24+68	22'		" " 6	35+30	22'	29'	" " " 23
" " 25+13	22'		" " "	37+62	22'	22'	" " " "
" " 29+63	22'		" " 6	43+50	22'	22'	" " " "
" " 30+10	22'	22'	" " "	40+10	22'	22'	" " " "
" " 30+68	22'		" " "	46+17	22'	22'	" " " 24
" " 30+8.5	22'		" " "	50+33	22'	22'	" " " "
" " 31+0.2	22'	22'	" " "	59+30.86	22'	22'	" " " 25
" " 31+10	22'		" " 6	59+05.80	22'	22'	" " " "
" " 32+5.5	22'	22'	" " 22	63+50	22'	22'	" " " "
" " 32+63	22'		" " "	67+55	22'	22'	" " " "
" " 32+85	22'	22'	" " "	70+80	22'	22'	" " " 26
" " 32+99	22'		" " "	79+05	22'	22'	" " " "
" " 33+20	22'		" " "	82+08	22'	22'	" " " 27
" " 33+31	22'		" " "	87+70	22'	22'	" " " "
" " 62+50	22'		" " 25	88+10	22'		" " " "
" " 62+75	22'		" " 25	93+86	22'		" " " 28
" " 64+50	22'		" " 25	94+63	22'		" " " 28
" " 84+30	22'		" " 27	95+35	22'		" " " 28
" " 87+04	22'		" " 27				
" " 87+32	22'	22'	" " 27	119+32	22'		" " " 30
" " 87+75	22'		" " 27	119+48	22'	22'	" " " "
" " 87+90	22'		" " 27	123+60	22'	22'	" " " "
" " 90+65	22'		" " 27	"A" 0+40	18'		" " " 9
" " 91+05	22'		" " 27	"A" 0+78	18'		" " " 9
" " 113+50 to 123+60	22'	22'	" " 29 note 11	"B" 0+43	23'		" " " 11
				"B" 1+08	23'		" " " 11

* Wheelchair ramp in exist. sidewalk

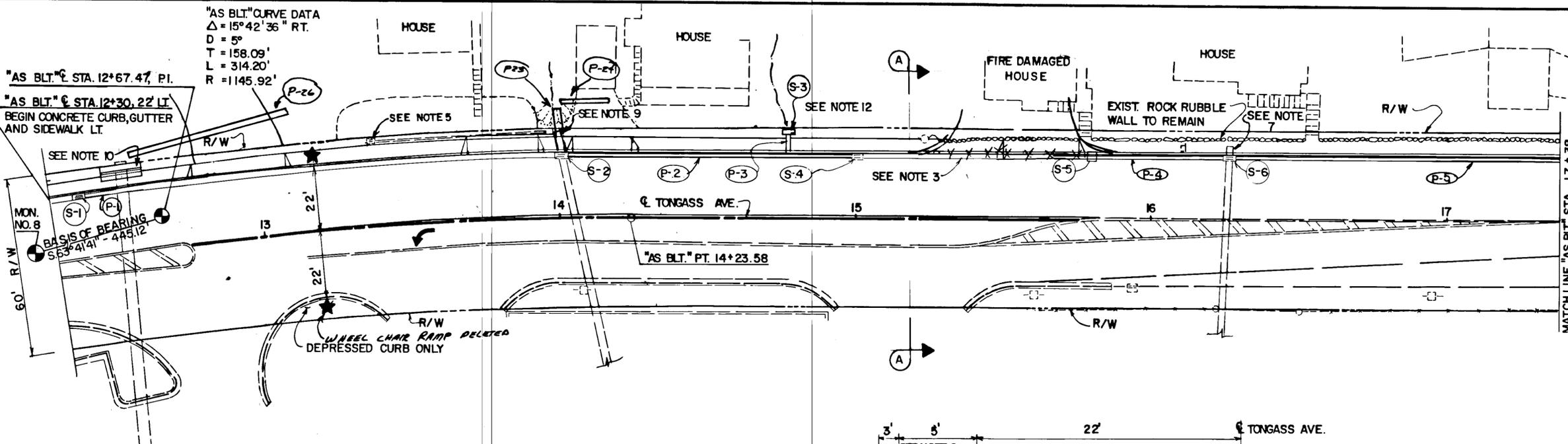


TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
SIDEWALK DETAILS & SIDEWALK SUMMARY

APPROVED BY: *McNeill* 6-15-89
APPROVED BY: *John W. Remington* 6-15-89

SCALE: AS SHOWN
DESIGNED: W.H.
CHECKED: G.R.H.
DRAWN: JEM
DATE: 6-15-89

SHEET 4 OF 34

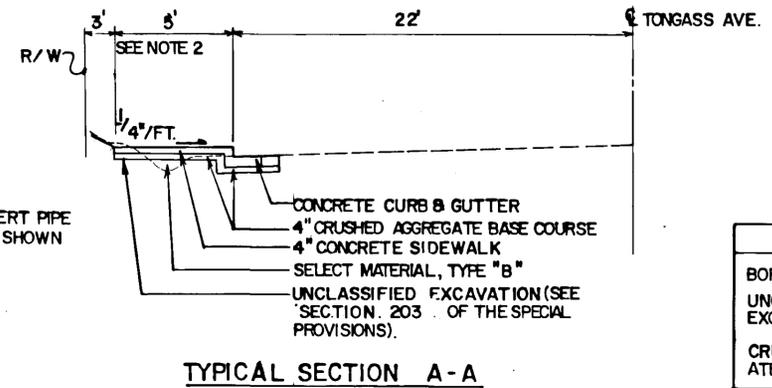


GENERAL NOTES

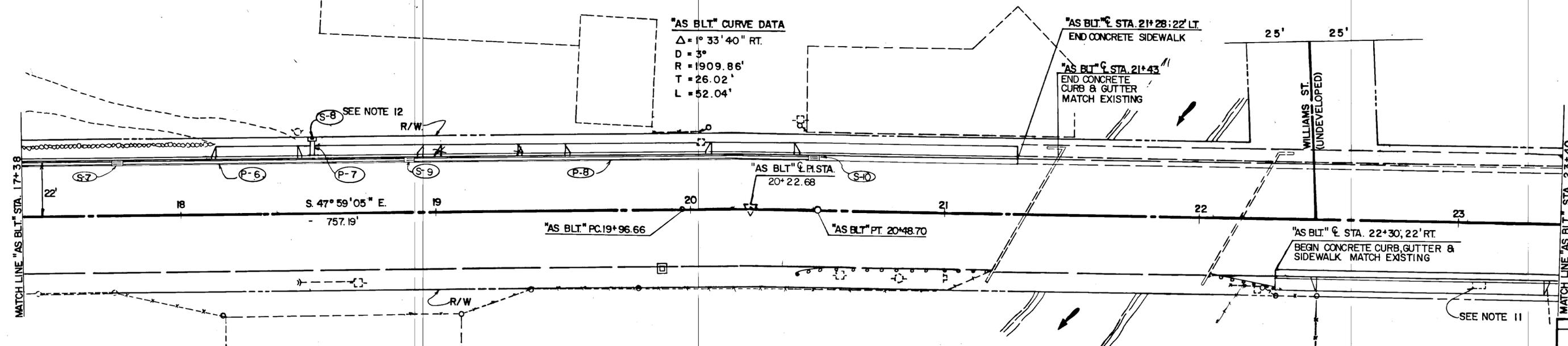
- FOR COMPLETE SUMMARY OF SIDEWALK & WHEELCHAIR RAMPS, SEE SHT. 4.
- NEW SIDEWALK ADJACENT TO EXISTING ROCK RUBBLE WALL SHALL BE CAST TO FACE OF WALL ONLY. CARE SHALL BE TAKEN NOT TO DISTURB WALL DURING SIDEWALK CONSTRUCTION.
- INSTALL NEW CURB, GUTTER & SIDEWALK. SEE TYPICAL SECTION, THIS SHT. & SECTION A-A SHT. 4.
- FOR DRAINAGE PROFILE AND ADDITIONAL DETAILS, SEE SHT. 12 AND STD. DWGS. D-01.01, D-05.10, D-23.00, & D-26.01.
- EXISTING INLET TO REMAIN.
- ★ INDICATES LOCATION OF WHEELCHAIR RAMP TO BE INSTALLED. SEE SHT. NO. 4 FOR ADDITIONAL DETAILS.
- REMOVE & DISCARD APPROXIMATELY 7' END SECTION OF EXISTING PIPE. SEE SHT. 12 FOR ADDITIONAL DETAILS. SPECIALS FOR PAYMENT.
- FOR STRIPING & SIGNING DETAILS, SEE SHTS. 21 THRU 30 & 31 THRU 34.
- RELOCATE EXISTING MAILBOXES TO BEHIND SIDEWALK. SEE SECTION 202 OF THE SPECIAL PROVISIONS.
- CONSTRUCT CONCRETE SIDEWALK AT EXIST. HEADWALL, ATTACH NEW RAILING. SEE DETAILS, SHT. NO. 18.
- ADJUST TELEPHONE UTILITY BOX. COVER & FRAME TO MATCH TOP OF NEW SIDEWALK. SEE SECTION 675 OF THE SPECIAL PROVISIONS.
- FIELD INLET TO BE LOCATED WITHIN R/W TO INTERCEPT SURFACE DRAINAGE. SEE SHT. 12 FOR DETAILS.

HORIZONTAL CONTROL
 THE BASIS OF BEARING FOR PURPOSES OF HORIZONTAL CONTROL IS THE RECORDED BEARING BETWEEN PI. MON. "AS BLT." 12+67.47 AND THE NEXT MOST NORTHERLY PI. (MON. NO. 8) AS IDENTIFIED BY STATE OF ALASKA D.O.T./P.F. LOCATIONS SURVEYS BOOK NO. 86-24 AND 89-2.

VERTICAL CONTROL
 THE BASIS OF VERTICAL CONTROL IS THE STATE OF ALASKA D.O.T./P.F. BRASS CAP MONUMENT BM-3 SET 1 FT. WEST OF THE FLAG POLE BASE IN FRONT OF THE KETCHIKAN VOLUNTEER FIRE DEPARTMENT BLDG. & 62 FT. LEFT OF "AS BLT." 38+59, ELEV. 24.27 MLLW.



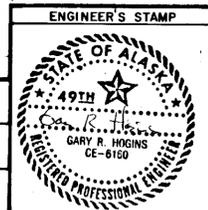
QUANTITIES SUMMARY	
BORROW	182 C.Y.
UNCLASSIFIED EXCAVATION	167 C.Y.
CRUSHED AGGREGATE BASE COURSE	209 TON



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

**TONGASS AVE. TRAFFIC IMPROVEMENTS
 SHUTTLE FERRY ENTRANCE TO MARTIN ST.
 PLAN AND TYPICAL SECTION**

APPROVED BY: <i>John W. Army</i> DESIGN GROUP CHIEF DATE: 6-15-89	DESIGNED BY: W.H.	SCALE: 1" = 20'
RECOMMENDED BY:	DRAWN BY: C.S.	DATE: June 15, 1989
PREPARED BY: <i>Sam Harty</i> PROJECT MANAGER	DESIGN ENGINEER, GROUP "A" <i>William J. Harty</i> LEAD DESIGNER	CHECKED BY: G.R.H.
RECORD OF REVISIONS		SHEET 5 OF 34



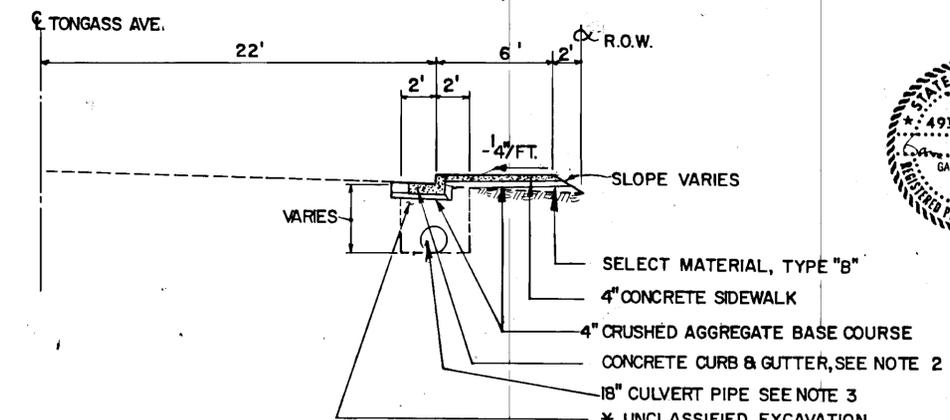
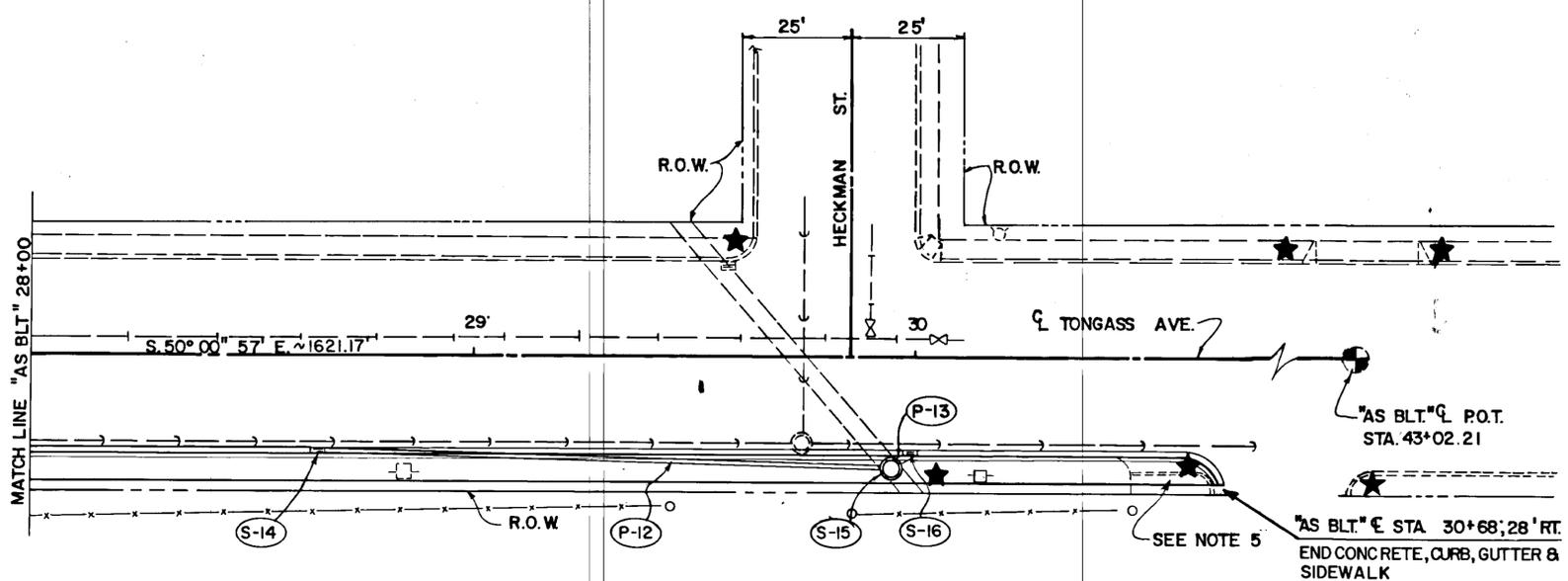
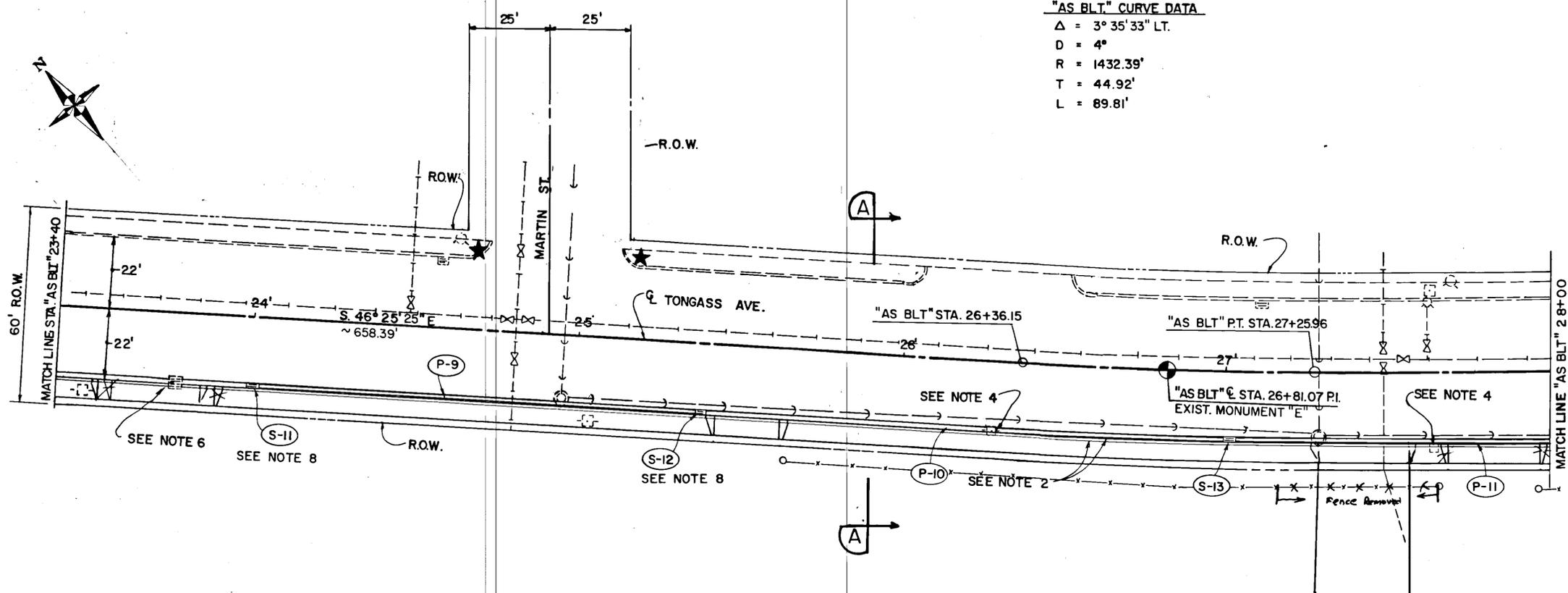
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) 68864	1989	6	34

"AS BLT." CURVE DATA

Δ = 3° 35' 33" LT.
 D = 4°
 R = 1432.39'
 T = 44.92'
 L = 89.81'

GENERAL NOTES

- FOR COMPLETE SUMMARY OF SIDEWALK & WHEELCHAIR RAMPS SEE SHT. 4.
- INSTALL NEW CURB, GUTTER & SIDEWALK TYPICAL SECTION A-A THIS SHT. & SECTION A-A SHT. 4.
- FOR DRAINAGE PROFILE AND ADDITIONAL DETAILS, SEE SHT 12 AND STD. DWGS. D-01.01, D-05.10, D-23.00 & D-26.01.
- UTILITY POLE TO BE RELOCATED BY OTHERS.
- REMOVE 20 FEET EXISTING CURB, GUTTER & SIDEWALK.
- ADJUST EXISTING ELECTRIC UTILITY VAULT. SEE SPECIAL PROVISIONS SECTION 675 & DETAIL SHT. 7.
- FOR STRIPING AND SIGNING DETAILS, SEE SHTS. 22 & 31.
- 4" DUCTILE IRON WATER MAIN NOT SHOWN RUNS PARALLEL & RIGHT 19'± OF CENTERLINE PAST PROPOSED DRAINAGE STRUCTURES (S-11) & (S-12). CARE SHOULD BE TAKEN DURING EXCAVATION FOR PIPE (P-7) & STRUCTURES TO AVOID INTERFERENCE. TOP 4" MAIN @ "AS BLT." STA. 24+~; 19' RT. ≈ ELEV. 24.7'±.



TYPICAL SECTION A-A

QUANTITIES SUMMARY	
-BORROW	= 140 C.Y.
*UNCLASSIFIED EXC.	= 93 C.Y.
CRUSHED AGG. BASE COURSE	→ 217 TONS

* SEE SECTION 203 OF THE SPECIAL PROVISIONS.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

TONGASS AVENUE TRAFFIC IMPROVEMENTS
 PROJECT NO. 68864
 MARTIN ST.-HECKMAN ST.
 PLAN, & TYPICAL SECTION

APPROVED BY: *[Signature]* 6-15-89

APPROVED BY: *[Signature]* 6-15-89

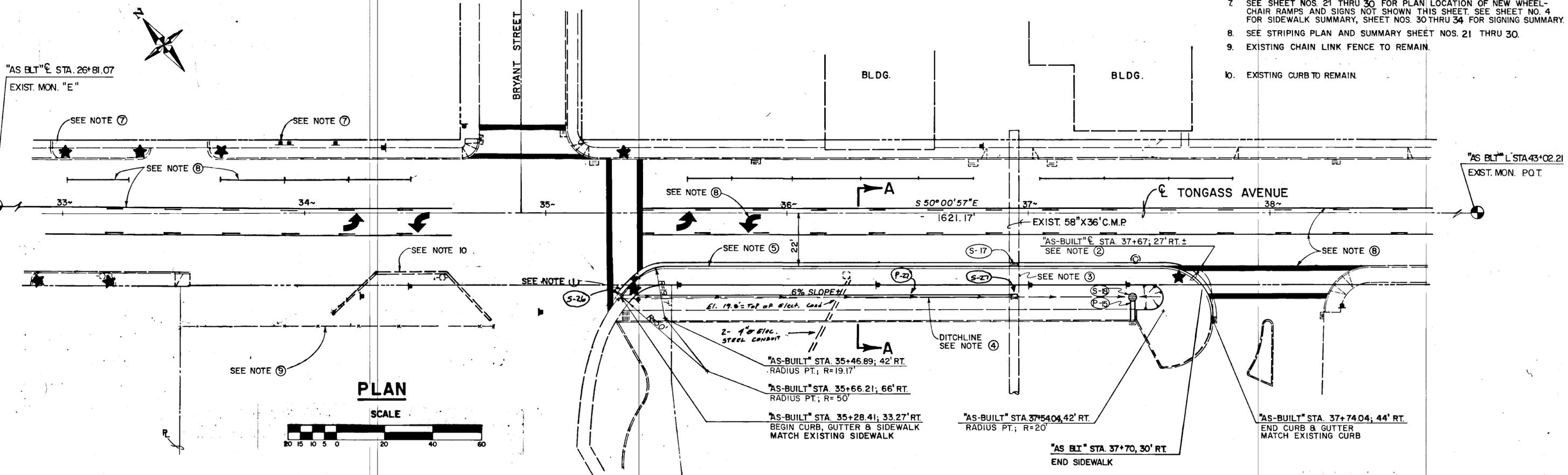
SCALE: AS SHOWN
 DESIGNED: WH
 CHECKED: G.R.H.
 DRAWN: C.S.A.
 DATE: 6-15-89

SHEET 6 OF 34

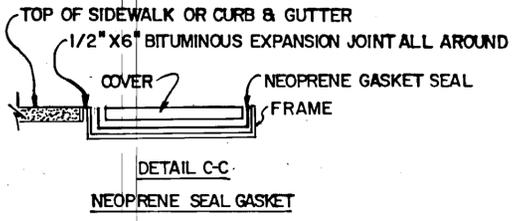
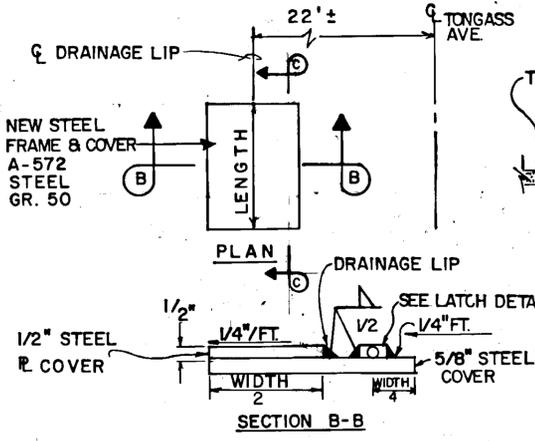
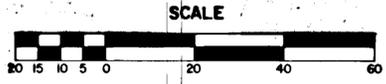
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	7	34

GENERAL NOTES

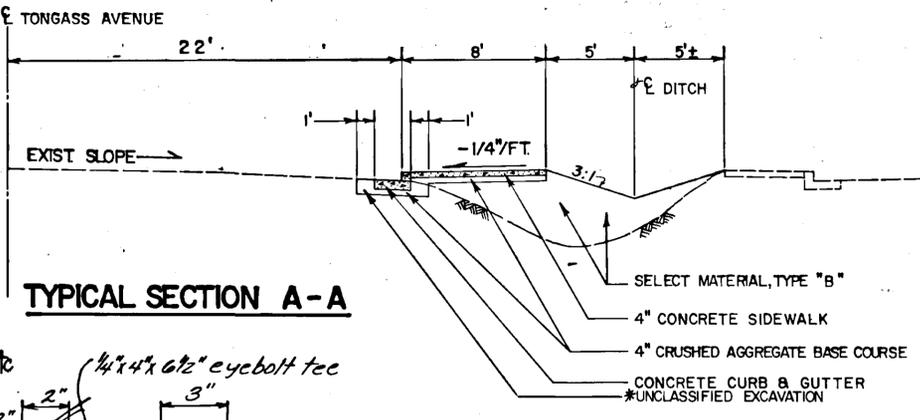
- REMOVE 9 FT. FROM END OF EXISTING SIDEWALK. INSTALL NEW CURB, GUTTER, SIDEWALK AND WHEELCHAIR RAMP.
- REMOVE AND DISCARD EXISTING CMP END SECTION. PLUG EXISTING PIPE. SEE SECTION 603-4.01 OF THE SPECIAL PROVISIONS.
- SEE PIPE ARCH CONNECTION DETAILS SHEET NO. 13
- GRADE DITCH TO DRAIN.
- INSTALL NEW CONCRETE CURB, GUTTER AND SIDEWALK.
- REMOVE 3 FEET FROM END OF EXISTING SIDEWALK, CURB AND GUTTER.
- SEE SHEET NOS. 21 THRU 30 FOR PLAN LOCATION OF NEW WHEELCHAIR RAMP AND SIGNS NOT SHOWN THIS SHEET. SEE SHEET NO. 4 FOR SIDEWALK SUMMARY, SHEET NOS. 30 THRU 34 FOR SIGNING SUMMARY.
- SEE STRIPING PLAN AND SUMMARY SHEET NOS. 21 THRU 30.
- EXISTING CHAIN LINK FENCE TO REMAIN.
- EXISTING CURB TO REMAIN.



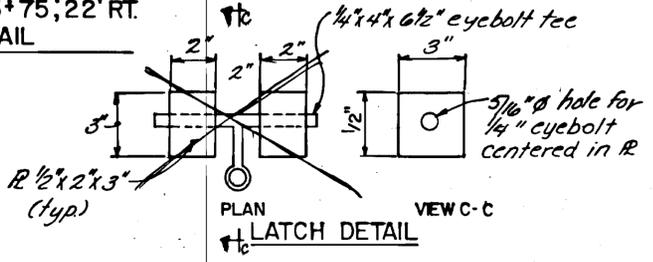
PLAN



ELECTRIC UTILITY VAULT @ 23+75; 22' RT. FRAME & COVER DETAIL



TYPICAL SECTION A-A



- NOTES**
- DIMENSIONS OF FRAME & COVER SAME AS EXISTING EXCEPT FOR DRAINAGE LIP.
 - ALLOW 1/4" SPACE BETWEEN FRAME & COVER FOR 1/4" NEOPRENE GASKET SEAL. CONTINUOUS MATERIAL OF SAME DIMENSIONS AS FRAME. PLACE BETWEEN FRAME AND COVER.
 - COVER & FRAME SHALL BE HOT DIP GALVANIZED
 - CENTER LATCH AT LENGTH ±2.

BORROW	=	150	CY
UNCLASSIFIED EXCAVATION	=	27	CY
CRUSHED AGG. BASE COURSE	=	63	TONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864

BRYANT ST. AREA A
PLAN, & TYPICAL SECTION

APPROVED BY: *Michael* 6-15-89
APPROVED BY: *Design & Construction* 6-15-89
SCALE: AS SHOWN
DESIGNED: BH
CHECKED: G.R.H.
DRAWN: W.D.A.
DATE: 6-15-89
SHEET 7 OF 34

*SEE SECTION 203 OF THE SPECIAL PROVISIONS.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	8	34

GENERAL NOTES

1. CONSTRUCT TREATED TIMBER PLATFORM AND STAIRS. SEE STANDARD DRAWING M-05.00 FOR DETAILS OF CONSTRUCTION FOR LOCATION SPECIALLY SEE SHEET NOS 14 & 15. SEE SECTION 506 SPECIAL PROVISIONS.
2. REMOVE EXISTING WOODEN STAIRS, FENCE, & PLANK RETAINING WALL.
3. REMOVE EXISTING STAIRS. SEE SECTION 202 OF THE SPECIAL PROVISIONS.
4. REMOVE EXISTING WOODEN ACCESS RAMP.
5. REMOVE EXISTING CONCRETE RETAINING WALL STRUCTURE TO BOTTOM SUBGRADE OF NEW WORK OR AS DIRECTED BY THE ENGINEER.
6. EXIST. SIGN TO BE REINSTALLED AS PER STD. DWG. NO. S-00.0-S-30.0 AND SECTION 615 OF THE SPECIAL PROVISIONS.
7. FOR DRAINAGE DETAILS SEE SHEETS 9, 12, & 13.
8. REMOVE EXISTING WOOD DECK & FOUNDATION WALL TO PROPERTY LINE OR AS DIRECTED BY THE ENGINEER. SEE SECTION 202 OF THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
9. SEE SHT. 9 FOR DETAILS OF CONSTRUCTION FOR HOADLY CREEK PARKING AREA.
10. RECONSTRUCT APPROX. 8' OF SUNKEN CURB ADJACENT BRIDGE WINGWALL. RECONSTRUCT BERM ON WATER SIDE OF WINGWALL. PLACE 1 FOOT LAYER CLASS I RIPRAP TO TOE OF WATER AND KEY BASE.
11. MOVE EXISTING BOULDERS AS NECESSARY TO CREATE BACKWATER.
12. PIT RUN MATERIAL WASHED, ROUNDED 3 INCH TO 1/2 INCH GRADING.
13. INSTALL MAILBOX BACK OF SIDEWALK AND BEHIND RAILING.

KEY

- /// PERMIT AREA
- EASEMENT
- R

QUANTITIES SUMMARY

DESCRIPTION	UNIT	QUANT.	REMARKS
BORROW	C.Y.	-84	SELECT MATERIAL TYPE "B" SEE SPECIALS
UNCLASSIFIED EXC.	C.Y.	114	SEE SECTION 203 OF THE SPECIAL PROVISIONS
CRUSHED AGG BASE COURSE	TON	153	INCLUDES GRAVEL PAD @ RETAINING WALLS SEE SHTS. 14 & 15
TREATED TIMBER	MBM	0.60	STAIRS "AS BLT" 46+39.85 * 47+63.16
CLASS "A" CONCRETE	C.Y.	291	RET. WALL "B" SEE SHTS. 14 & 15
REINFORCING STEEL	L.B.	-1756	" " " "

* PRESSURE TREATED FOR GROUND CONTACT WATER BOURNE SALTS ONLY. SEE A.W.P.A. SPEC. C-2.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

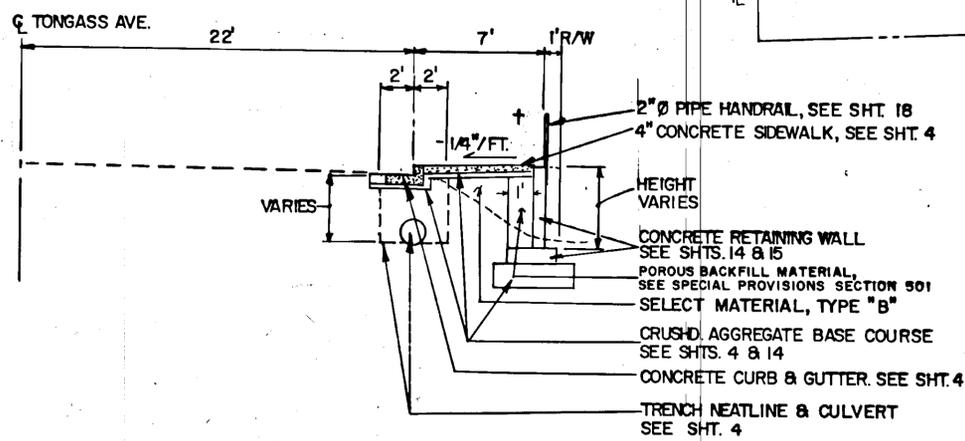
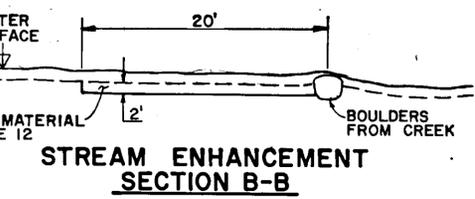
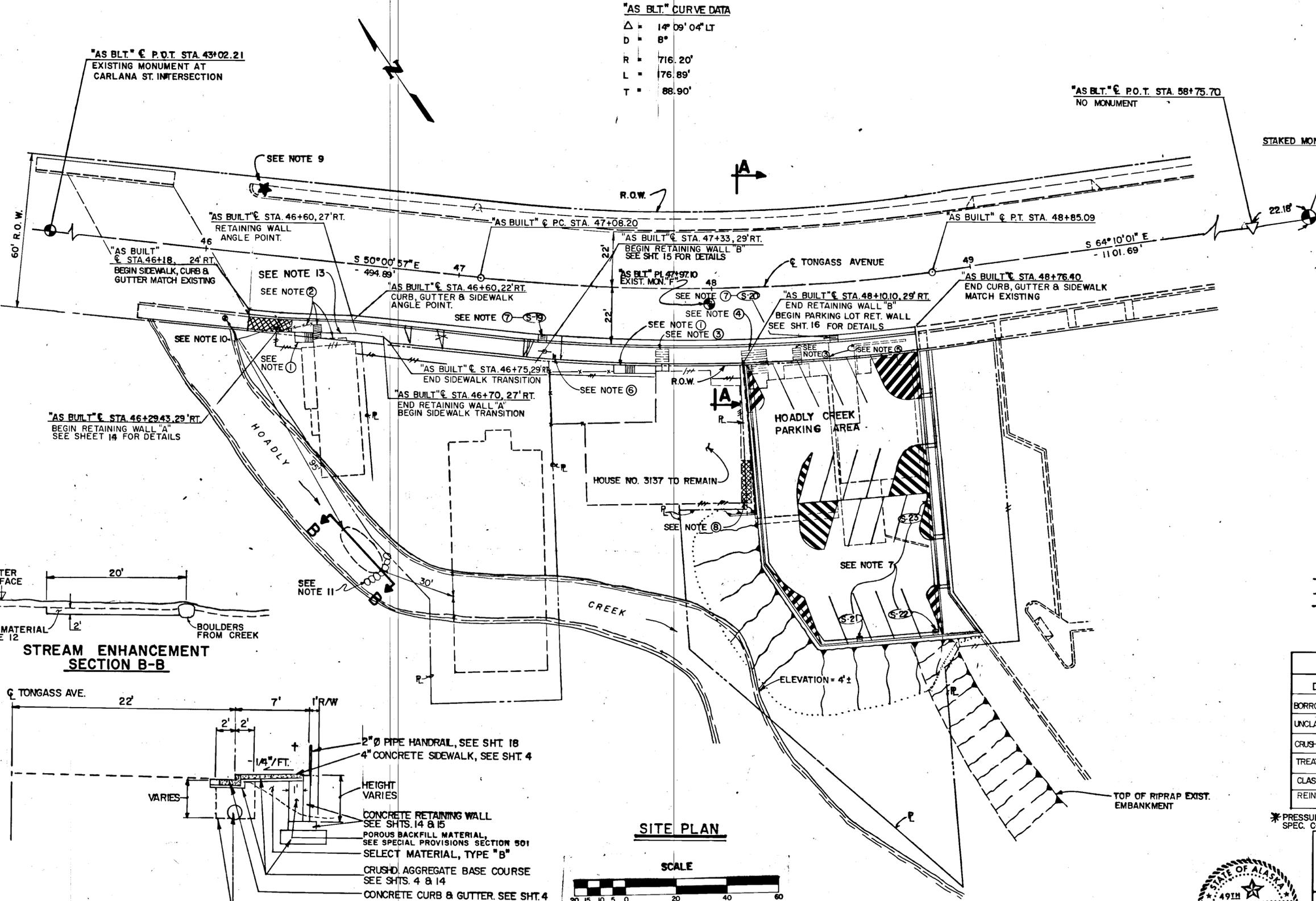
TONGASS AVENUE TRAFFIC IMPROVEMENTS
 PROJECT NO. 68864
HOADLY CREEK AREA
 SITE PLAN

APPROVED BY: *Michael* 6-15-89

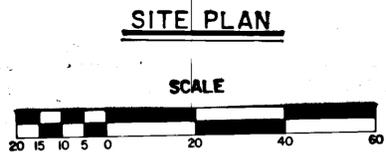
APPROVED BY: *John W. Henry* 6-15-89
 JOHN W. HENRY, P.E. DESIGN ENGINEER GROUP "B"

SCALE: AS NOTED
 DESIGNED: B.H. DRAWN: W.D.A.
 CHECKED: G.R.H. DATE: 6-15-89 SHEET 8 OF 34

"AS BLT." CURVE DATA
 $\Delta = 14^{\circ} 09' 04" \text{ LT}$
 $D = 8^{\circ}$
 $R = 716.20'$
 $L = 176.89'$
 $T = 88.90'$



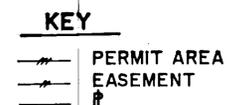
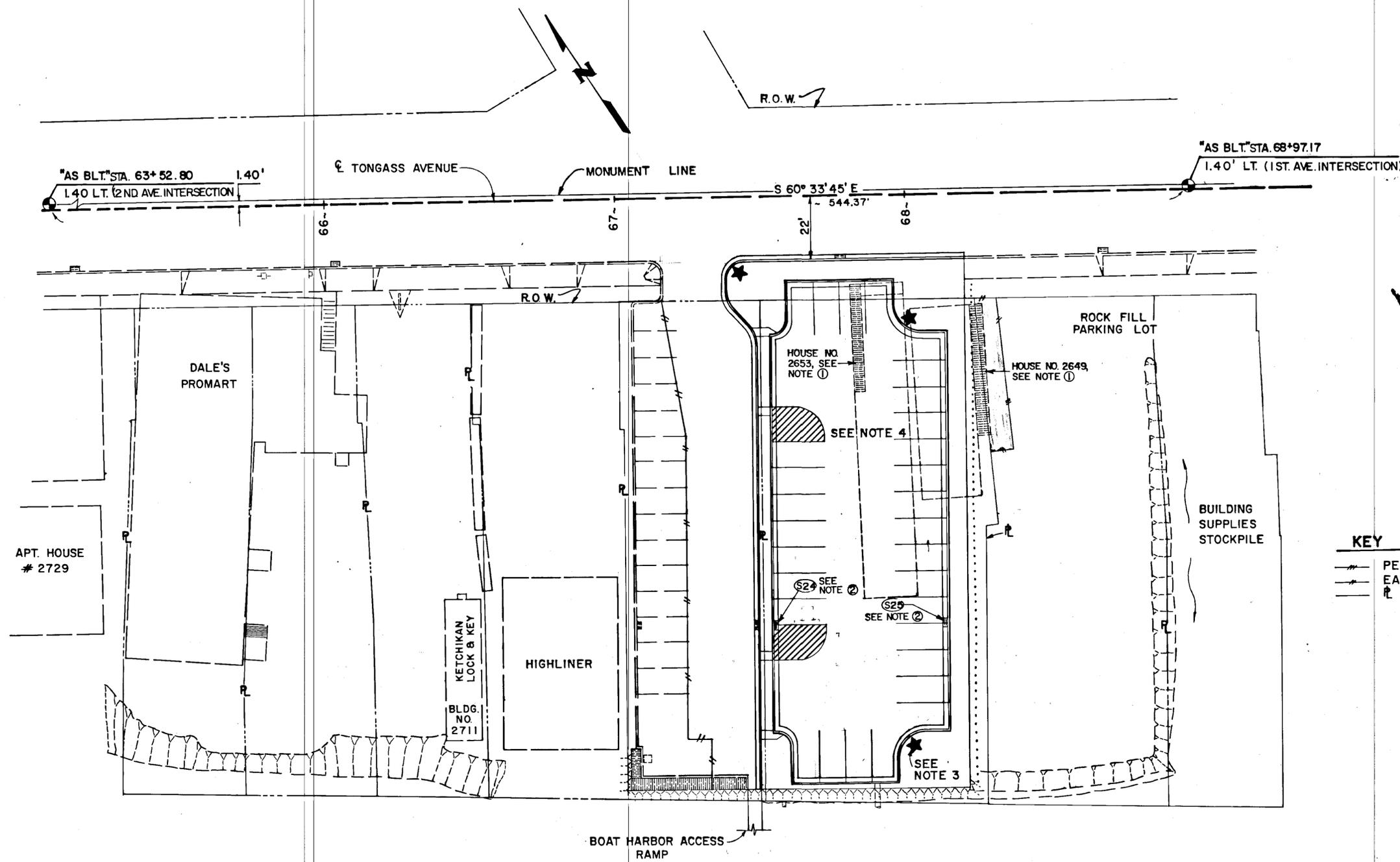
TYPICAL SECTION A-A
 † STATION 48+10 TO 48+77 SIDEWALK TRANSITIONS & SLOPES AWAY FROM TONGASS AVENUE. SEE SHT. NO. 9 FOR DETAILS & ELEVATIONS.



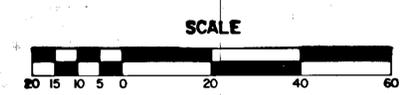
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	10	34

GENERAL NOTES

- EXISTING BUILDINGS TO BE REMOVED, SEE SECTION 202 SPECIAL PROVISIONS.
- NEW INLET STRUCTURE, SEE DRAINAGE DETAILS ON SHEET 11, 12 & 13.
- CONSTRUCT HANDICAP WHEELCHAIR ACCESS RAMP. FOR LOCATION SEE SHEET NO. 20.
- PAINTED TRAFFIC MARKINGS. FOR DETAILS SEE SHEET NO. 20.



SITE PLAN



DESCRIPTION	QUANT.	UNIT	REMARKS
BORROW, TYPE "B"	0	C.Y.	
UNCLASSIFIED EXC.	50	C.Y.	
CRUSHED AGGREGATE	21	TON	TONGASS AVE. SIDEWALK ONLY.
BASE COURSE			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO 68864
BAR HARBOR AREA
SITE PLAN

APPROVED BY: *Omell* 6-15-89
P.E. CHIEF OF DESIGN

APPROVED BY: *John W. Henry* 6-15-89
DESIGN ENGINEER GROUP "B"

SCALE: AS SHOWN
DESIGNED: W.H.
DRAWN: B.H.
CHECKED: G.R.H.
DATE: 6-15-89

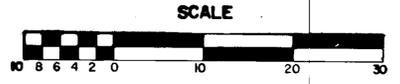
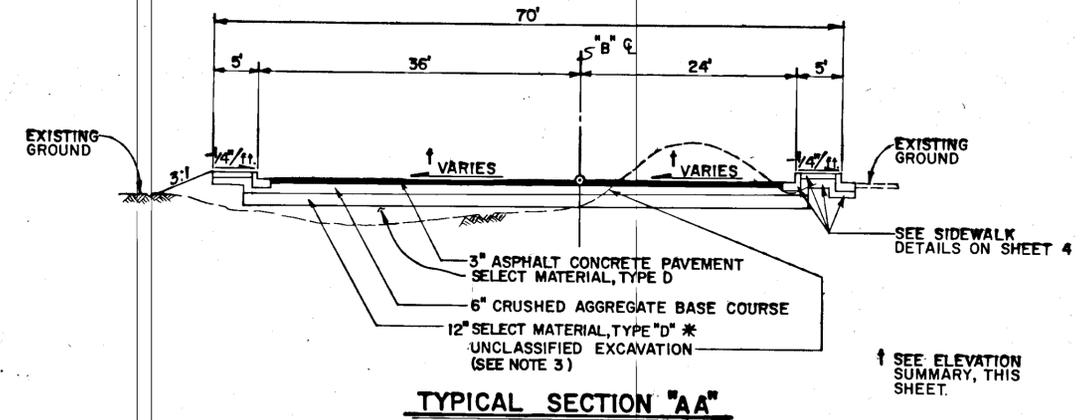
SHEET 10 OF 34

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	11	34

POINT NO.	STATION	OFFSET		GUTTER ELEVATION
		LT.	RT.	
1	"ASBLT" 68+19.75		22'	MATCH EXISTING
2	"ASBLT" 67+78.75		22'	"
3	"ASBLT" 67+45.75		22'	"
4	"B" 0+30	18'		23.21
5	"B" 0+30	18'		23.35
6	"B" 0+48	36'		22.85
7	"B" 0+48		24'	23.10
8	"B" 0+48		29'	MATCH EXISTING
9	"B" 1+46	36'		21.13 (21.01*)
10	"B" 1+46		24'	21.33 (21.21*)
11	"B" 1+46		29'	21.20 (21.07**)
12	"B" 1+83	36'		21.74
13	"B" 1+83		24'	21.91
14	"B" 1+83		29'	MATCH EXISTING
15	"B" 2+01	18'		21.96
16	"B" 2+01		18'	22.10
17	"B" 2+02.5±		29'	MATCH EXISTING
18	"B" 2+02.5±	41'		22.37***

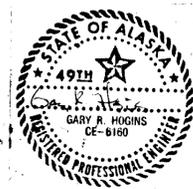
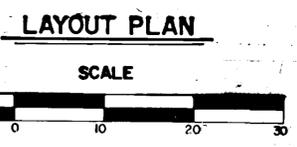
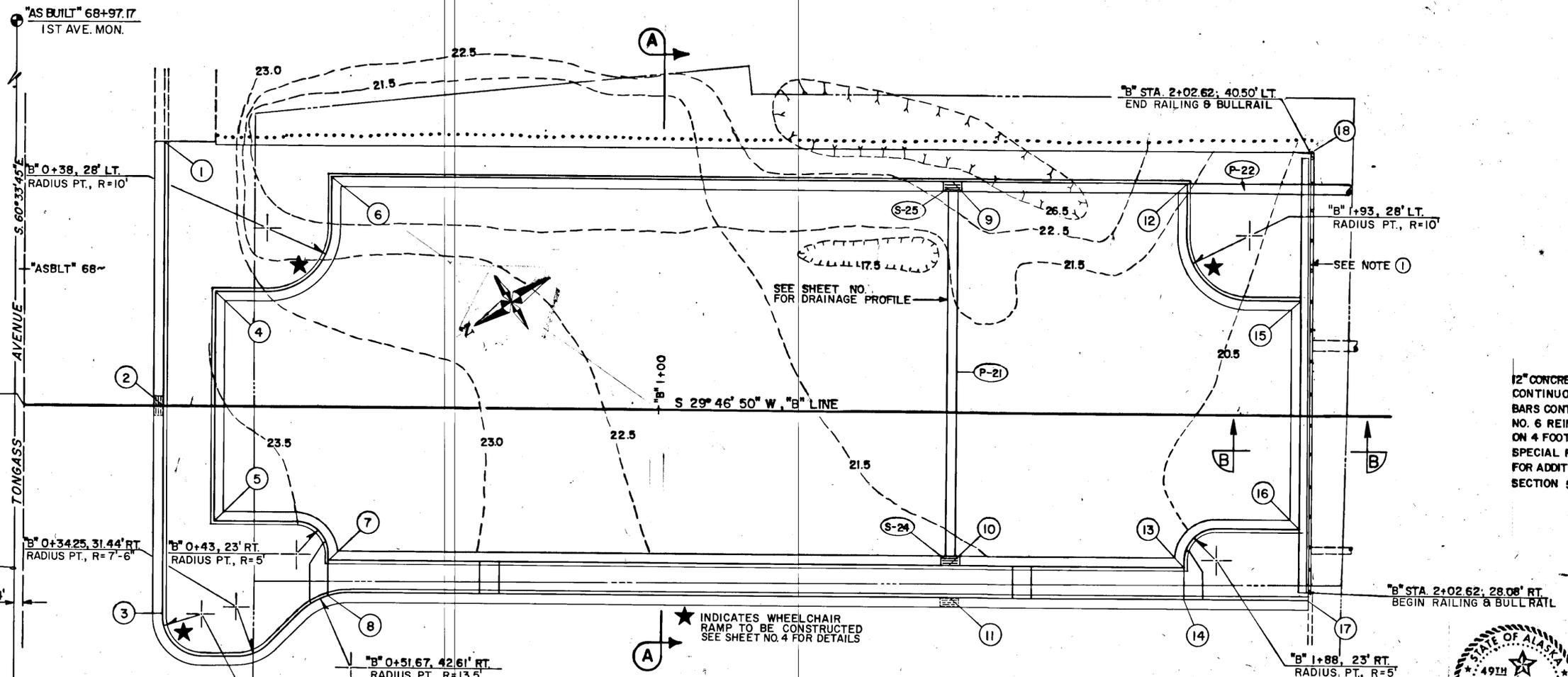
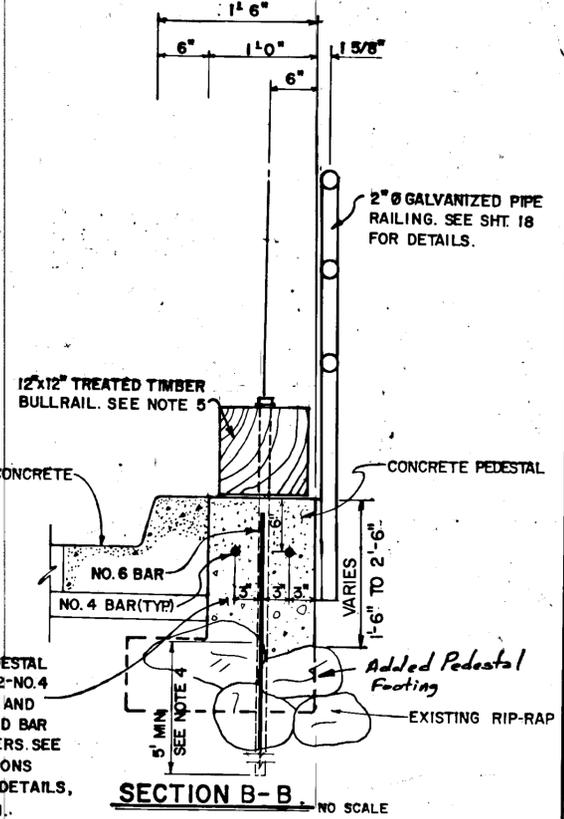
QUANTITIES SUMMARY			
DESCRIPTION	UNIT	QUAN.	REMARKS
BORROW, TYPE "D"	CY.	275	PARKING LOT
UNCLASSIFIED EXCAVATION	CY.	400	QUANTITIES
CRUSHED AGGREGATE BASE COURSE	TON	437	
TREATED TIMBER	MBM	1.87	

- GENERAL NOTES**
- INSTALL 2" Ø PIPE RAILING AND POST, SEE SHEET 18 FOR DETAILS OF CONSTRUCTION.
 - SEE SHT 12-13 FOR DRAINAGE DETAILS NOT SHOWN.
 - SEE SECTION 203 OF THE SPECIAL PROVISIONS FOR EMBANKMENT AND UNCLASSIFIED EXCAVATION WORK EXPLANATION.
 - DRILL 1" Ø X 5' LONG MINIMUM HOLE IN EXISTING RIP RAP, PLACE AND GROUT NO. 6 REINFORCING BAR IN HOLE. SEE SECTION A-A THIS SHEET FOR DETAILS.
 - INSTALL 12x12, 68'-9" LONG TREATED TIMBER BULLRAIL. DRILL 1 1/8" Ø HOLE FOR 1" Ø X 3'-0" MIN. LONG STEEL GALVANIZED SELF ANCHORING BOLT. MAXIMUM CENTER TO CENTER SPACING = 8'-0".
 - SEE SHEETS 19, 20 FOR CURB STOP DETAIL.
 - BULLRAIL SHALL BE PRESSURE TREATED FOR GROUND CONTACT IN ACCORDANCE WITH A.W.P.A. SPECIFICATION C-2.



* SEE SECTION 703 OF THE SPECIAL PROVISIONS

* ELEVATION @ TOP OF NEW GRATE
 ** ELEVATION @ TOP OF EXISTING GRATE
 *** ELEVATION @ TOP OF NEW SIDEWALK



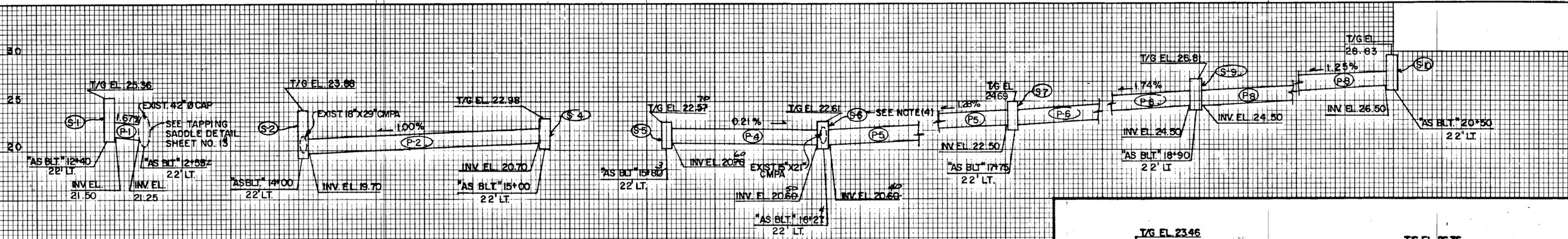
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION, DIVISION OF AVIATION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
 PROJECT NO. 68864
 BAR HARBOR PARKING AREA
 LAYOUT PLAN & TYPICAL SECTION

APPROVED BY: *Omeall* 6-15-89
 CHIEF OF DESIGN

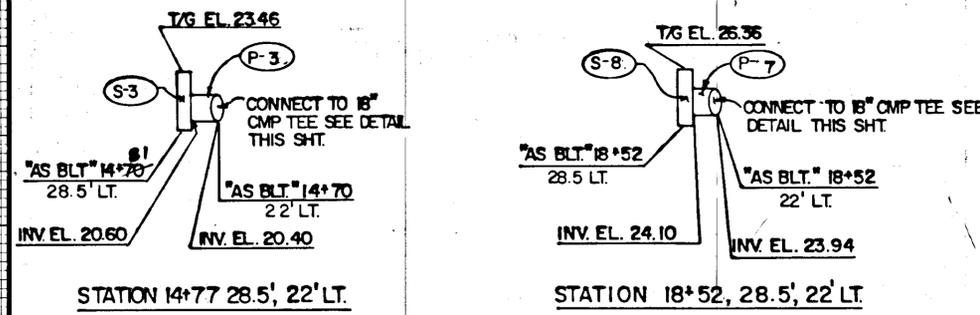
APPROVED BY: *John W. Henry* 6-15-89
 JOHN W. HENRY, P.E. DESIGN ENGINEER GROUP "B"

SCALE: AS SHOWN
 CHECKED: G.R.H. DATE: 6-15-89
 SHEET 11 OF 34



NOTE SEE LAYOUT PLAN SHT. NO. 5

"AS BLT." 12+40, 22' LT. TO "AS BLT." 20+50, 22' LT. DRAINAGE PROFILE



DRAINAGE PROFILE

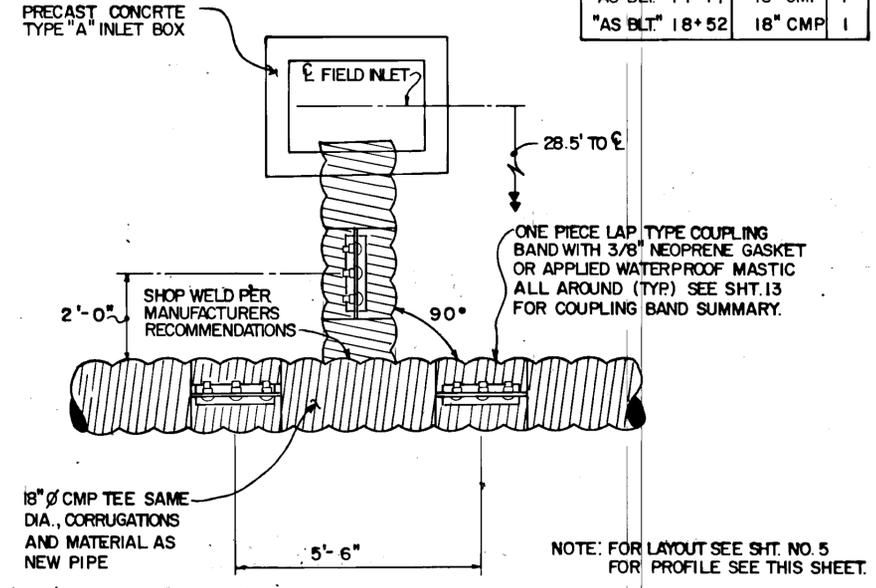
FIELD INLETS STATIONS 14+77 & 18+52, 28.5', 22' LEFT

STATION	DESCRIPN.	QNTY
"AS BLT." 14+77	18" CMP	1
"AS BLT." 18+52	18" CMP	1

INLET NO.	STATION	OFF SET		TYPE	ELEVATION		REMARKS
		LEFT	RIGHT		TOP OF GRATE	INVERT	
S-1	"AS BLT." 12+40	22'		A	25.36	21.50	SEE DRAINAGE PROFILE THIS SHT.
S-2	" "	22'		B	23.88	19.70	" " " " " "
S-3	" "	28.5'		FIELD	23.43	20.60	" " " " " "
S-4	" "	22'		A	22.98	20.70	" " " " " "
S-5	" "	22'		A	22.57	20.70	" " " " " "
S-6	" "	22'		A	22.61	20.60	" " " " " "
S-7	" "	22'		A	24.69	22.5	" " " " " "
S-8	" "	28.5'		FIELD	26.36	24.10	" " " " " "
S-9	" "	22'		A	26.81	24.5	" " " " " "
S-10	" "	22'		A	28.83	26.50	" " " " " "
S-11	" "	22'		A	28.32	25.52	" " " " " SHT. 13
S-12	" "	22'		A	27.00	24.20	" " " " " " "
S-13	" "	22'		A	25.38	22.58	" " " " " " "
S-14	" "	22'		A	23.89	21.09	" " " " " " "
S-15	" "	25'		MANHOLE	23.58	17.62	" " " " " " "
S-16	" "	22'		A	22.88	18.42	" " " " " " "
S-17	" "	22'		A	22.09	18.20	" " " " " " SHT. 13
S-18	" "	35'		FIELD	21.32	19.50	" " " " " " "
S-19	" "	22'		A	25.62	23.00	" " " " " " "
S-20	" "	22'		A	24.92	22.31 & 21.56	" " " " " " "
S-21	" "	51'		A	22.88	19.20, 19.20, 18.50	" " " " " " "
S-22	" "	21.75		A	22.06	19.50 & 19.50	" " " " " " "
S-23	" "	18.67		A	23.23	20.25	" " " " " " "
S-24	" "	24'		A	21.21	16.75 & 17.6	" " " " " " "
S-25	" "	36'		A	21.01	15.45 & 15.55	" " " " " " "

PIPE NO.	DIAMETER X LENGTH	FROM	TO	REMARKS
P-27	18" x 16'	S-26	S-27	C.O. No. B
P-26	18" x 56'	12+52/34.4 FT. DITCH	13+10/41.1 FT. DITCH	C.O. No. B
P-25	18" x 110'	S-5	15+02/32.5 FT. DITCH	C.O. No. B
P-24	18" x 165'	14+16/37.3 FT. EXIST. INLET	14+100/37.5 FT. DITCH	C.O. No. B
P-23	24" x 160'	S-2	14+82/27.5 FT. DITCH	C.O. No. B

PIPE NO.	DIAMETER X LENGTH	FROM		TO		REMARKS
		STRUCTURE	INVERT	STRUCTURE	INVERT	
P-1	18" x 15'	S-1	21.50	EXIST. 42" C.A.P.	21.25	SEE DRAINAGE PROFILE THIS SHT.
P-2	18" x 100'	S-2	19.70	S-4	20.70	" " " " " "
P-3	18" x 6'	S-3	20.60	TEE CONNECTION	20.40	" " " " " "
P-4	18" x 47'	S-5	20.70	S-6	20.60	" " " " " "
P-5	18" x 148'	S-6	20.60	S-7	22.50	" " " " " "
P-6	18" x 115'	S-7	22.50	S-9	24.50	" " " " " "
P-7	18" x 6'	S-8	24.10	TEE CONNECTION	23.94	" " " " " "
P-8	18" x 160'	S-9	24.50	S-10	26.50	" " " " " "
P-9	18" x 138'	S-11	25.52	S-12	24.20	" " " " " SHT. 13
P-10	18" x 162'	S-12	24.20	S-13	22.58	" " " " " " "
P-11	18" x 165'	S-13	22.58	S-14	21.09	" " " " " " "
P-12	18" x 130'	S-14	21.09	S-15	18.30	" " " " " " "
P-13	18" x 5'	S-15	18.30	S-16	18.42	" " " " " " "
P-14	18" x 3'	S-17	18.00	EXIST. 58" X 36" CMP	17.50	" " " " " SHT. 13
P-15	18" x 10'	S-18	18.50	EXIST. INLET	18.10	" " " " " " "
P-16	18" x 110'	S-19	23.00	S-20	22.31	" " " " " " "
P-17	18" x 110'	S-20	21.56	S-21	19.20	" " " " " " "
P-18	18" x 51.5'	S-23	20.25	S-22	19.50	" " " " " " "
P-19	18" x 29'	S-22	19.50	S-21	19.20	" " " " " " "
P-20	18" x 10'	S-21	18.50	OUT FALL	18.30	" " " " " " "
P-21	18" x 60'	S-24	16.75	S-25	15.55	" " " " " " "
P-22	18" x 62'	S-25	15.45	OUT FALL	13.59	" " " " " " "



SUGGESTED FIELD INLET (TEE)

CONNECTION DETAIL

"AS BLT." STA. 14+77 and 18+52, 28.5' RT.

- ### DRAINAGE NOTES
- ALL CURB INLET GRATES AND FRAMES SHALL BE TYPE G-3R AND CONFORM TO REQUIREMENTS OF STANDARD CURB INLET INSTALLATION STD. DWG. D-23.00. ALL FIELD INLET FRAMES & GRATES SHALL CONFORM TO REQUIREMENTS OF FIELD INLET FRAME & GRATE INSTALLATION STD. DWG. D-24.00.
 - SEE SHT. 13 FOR ADDITIONAL DETAILS & DRAINAGE PROFILES.
 - INLET GRATE ELEVATIONS FOR STRUCTURES - GUTTER ELEVATION - 1/2". SEE SHT. NO. 4 FOR DEFINITION OF GUTTER ELEVATION. GRATE ELEVATIONS SHOWN FOR NEW INLET STRUCTURES (S-1) THRU (S-25) ADJACENT EXISTING PAVEMENT ARE "AS BUILT". THEY SHALL BE FIELD VERIFIED.
 - INLET STRUCTURES CONSTRUCTED OVER AND ATTACHING TO EXISTING PIPES MAY BE PRECAST DESIGN. ALL EXISTING PIPES DAMAGED IN THE RETROFIT SHALL BE REPLACED. A TYPICAL INLET DESIGN IS SHOWN ON SHT. 13.
 - EXISTING 15" x 21" CMPA SHALL TERMINATE AT (S-2). REPLACE W/ 18" CMP. APPROX. 7' LONG SECTION FROM STREAM TO (S-2).
 - FIELD INLET LOCATIONS & GRATE ELEVATIONS SUBJECT TO FIELD ADJUSTMENT.

S-26	AS-BIT 35+30	34	A	21.92	19.5	C.O. No. B
S-27	AS-BIT 36+74	34	FIELD	21.03	17.1	C.O. No. B



TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864

SHUTTLE FERRY ENTRANCE TO MARTIN ST.
DRAINAGE PROFILE & DETAILS

APPROVED BY: *Manell* 6-15-89

APPROVED BY: *John W. Henry* 6/15/89

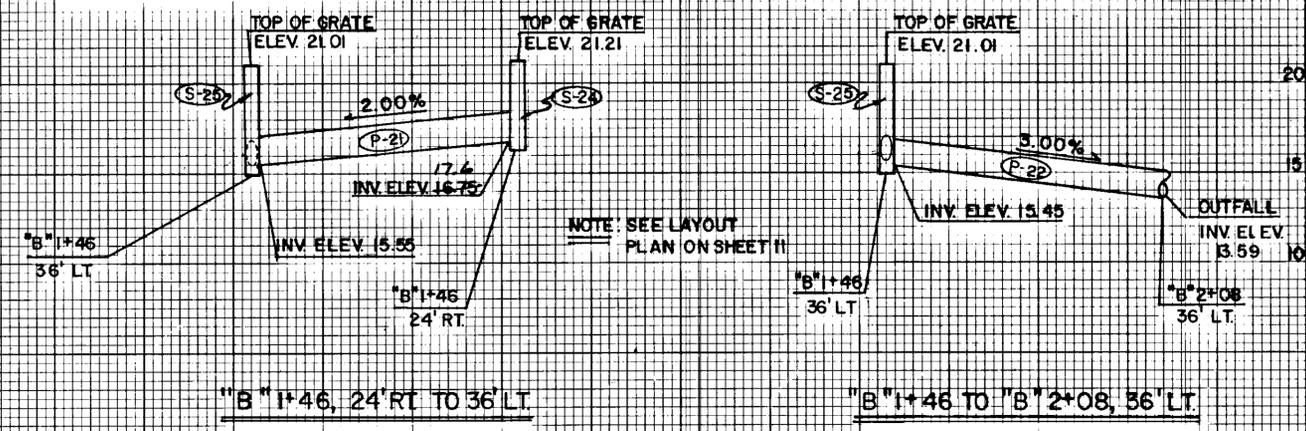
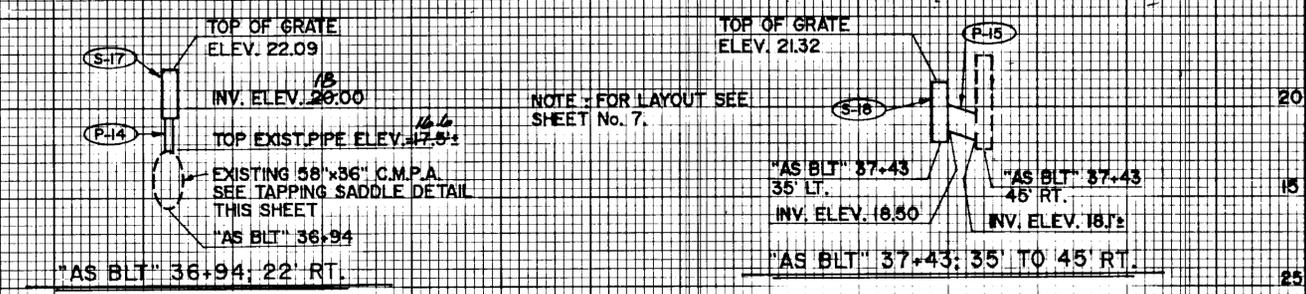
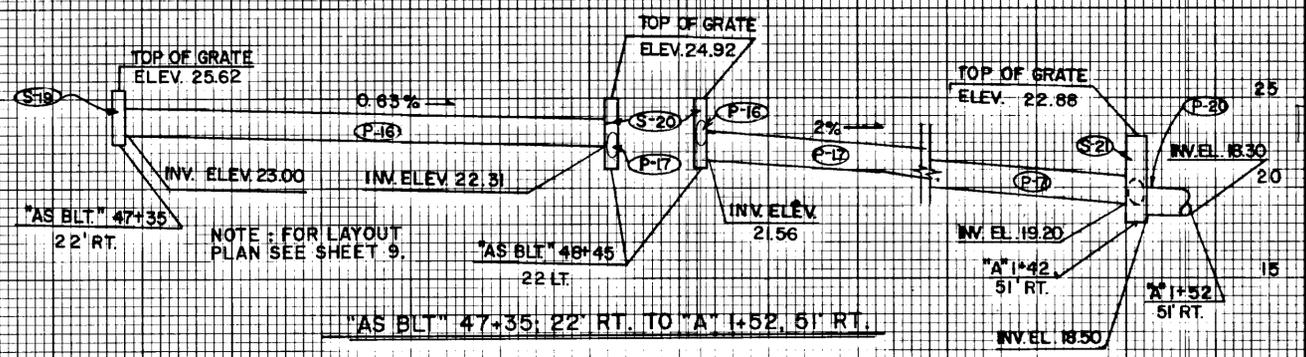
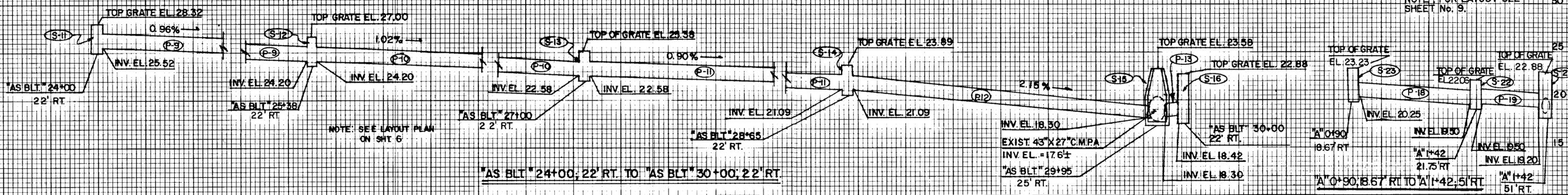
SCALE: NOT

DESIGNED: W.H. CHECKED: G.R.H. DATE: 6-15-89

DRAWN: *W.H.* SHEET 12 OF 34

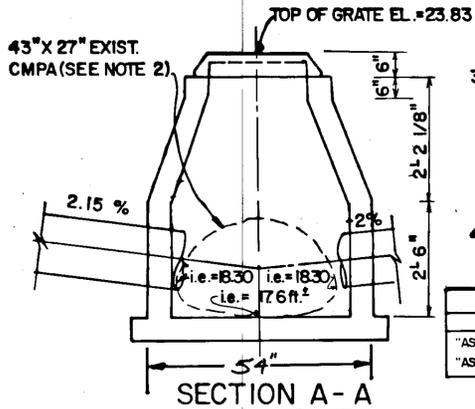
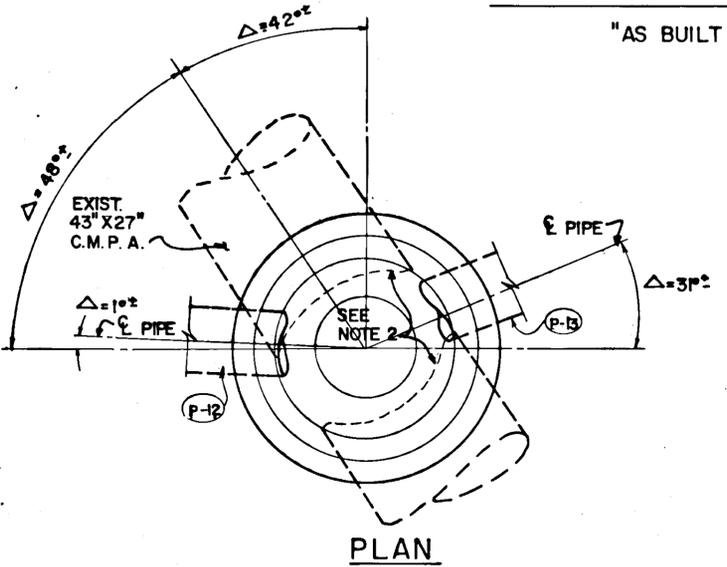
DRAINAGE PROFILES

NOTE: FOR LAYOUT SEE SHEET No. 9.



MANHOLE - PIPE ARCH CONNECTION DETAILS

"AS BUILT" STA. 29+95; 25' RT.

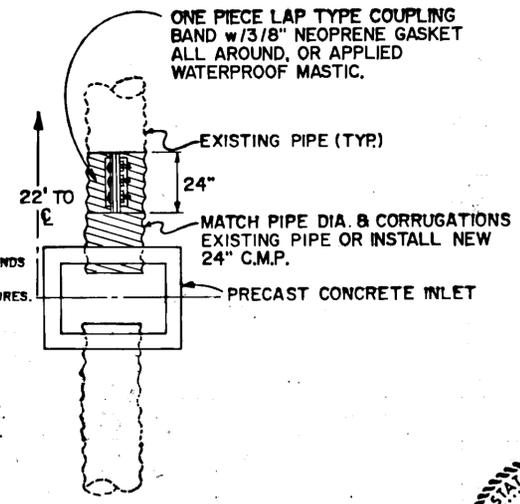


- DRAINAGE NOTES**
- SEE PLAN SHTS. FOR STRUCTURE LAYOUT.
 - REMOVE 3FT. LENGTH OF EXISTING 43" X 27" C.M.P.A. OF "AS BLT" STA. 29+95 25' RT. CONSTRUCT MANHOLE AROUND EXISTING PIPE. TRIM PIPE AS REQUIRED TO PROVIDE MAXIMUM INSPECTION CLEARANCE.
 - INLET GRATE ELEVATIONS FOR NEW STRUCTURES = GUTTER ELEVATION - 1-1/2". GRATE ELEVATIONS SHOWN FOR INLET STRUCTURES (S-9) THRU (S-16) ADJACENT EXISTING PAVEMENT ARE "AS BUILT". THEY SHALL BE FIELD VERIFIED.
 - SEE SUMMARY TABLES SHEET 12.

TAPPING SADDLE SUMMARY		
STATION	DESCRIPTION	QUANT.
"AS BLT" 12+55	42" Ø C.A.P.	1
"AS BLT" 36+94	58" X 36" C.M.P.A.	1

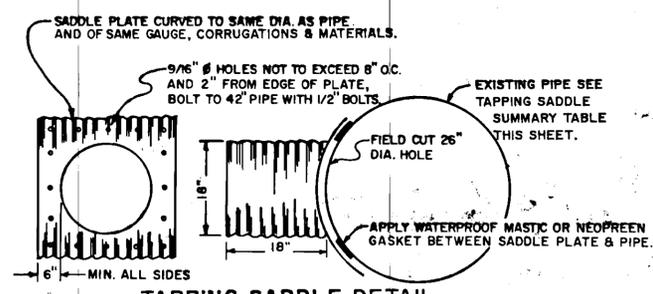
COUPLING BAND SUMMARY		
STATION	DESCRIPTION	QUAN.
"AS BLT" 12+55	18" CMP	1
"AS BLT" 14-	18" X 29" C.M.P.A.	1
"AS BLT" 14-77	18" CMP	3
"AS BLT" 18-82	18" CMP	3
"AS BLT" 36+94	18" CMP	1

NOTE: DOES NOT INCLUDE COUPLING BANDS FOR SPLICES TYPICALLY REQUIRED FOR NEW PIPE BETWEEN DRAINAGE STRUCTURES.



**TYPICAL DETAIL
INLET AT EXISTING PIPE**

"ASBLT" STATION 14+00; 22' LT.



TAPPING SADDLE DETAIL
"AS BLT" STATIONS 12+55; & 36+94; 22' RT.



**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**

S.E. REGION DESIGN AND CONSTRUCTION

TONGASS AVE. TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
MARTIN ST. TO HECKMAN ST., HOADLY CREEK
& BAR HARBOR PARKING AREAS
DRAINAGE PROFILE & DETAILS

APPROVED BY: *Onenil* 6-15-89

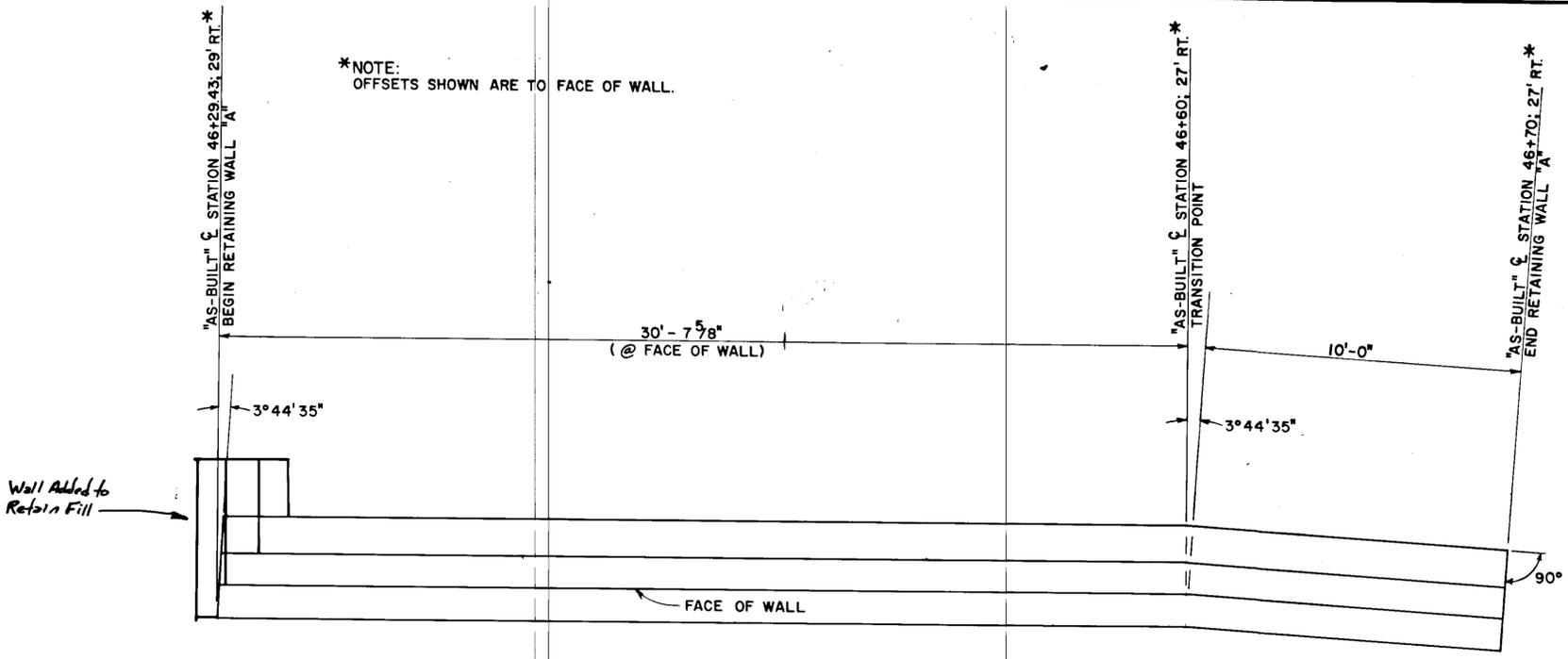
APPROVED BY: *John W. Higgins* 6-15-89

SCALE: DESIGNED: W.H. DRAWN: W.D.A. CHECKED: G.R.H. DATE: 6-15-89

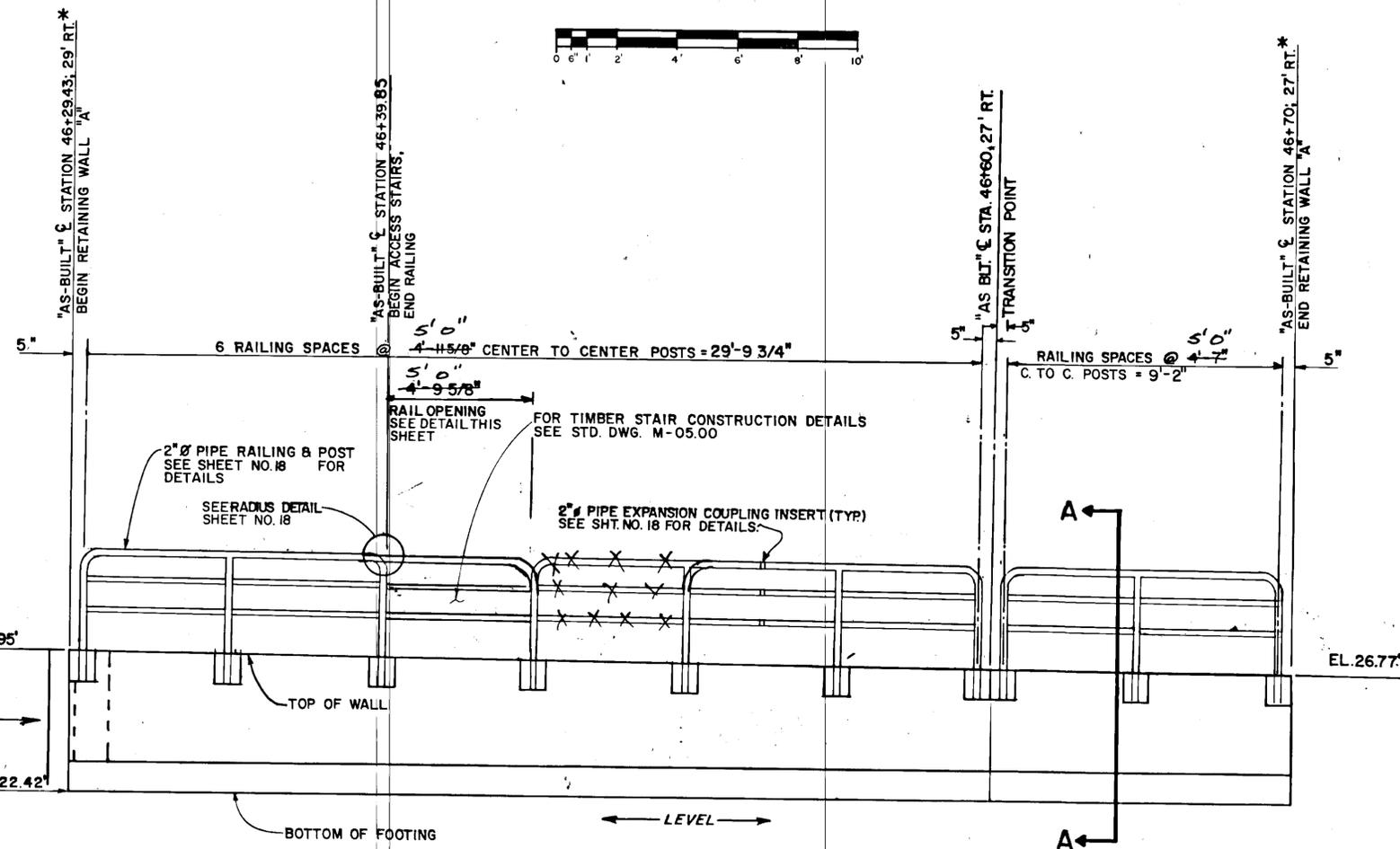
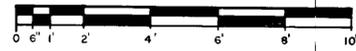
SHEET 13 OF 34

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) B 68864	1989	14	34

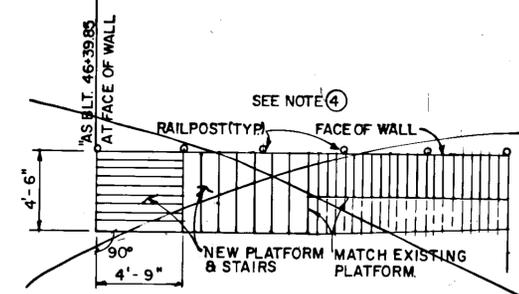
*NOTE:
OFFSETS SHOWN ARE TO FACE OF WALL.



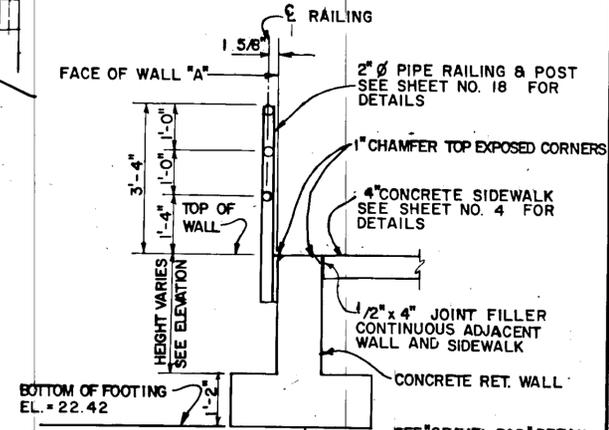
PLAN



ELEVATION



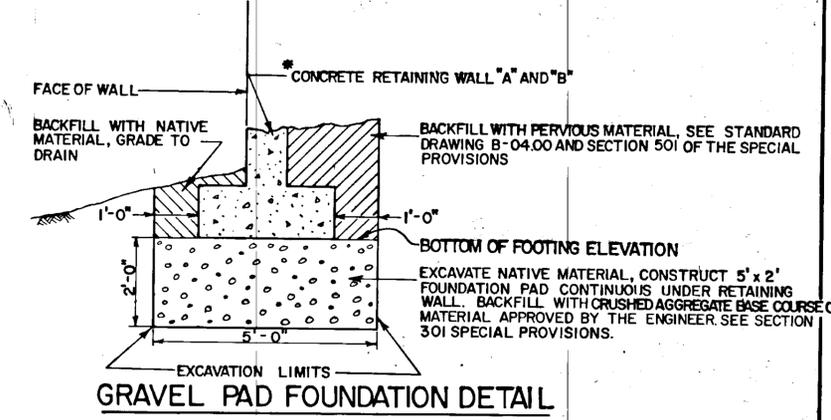
**STAIR ORIENTATION
DETAIL**



SECTION "A-A"

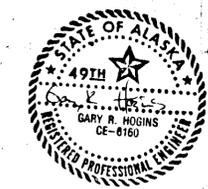
GENERAL NOTES:

1. SEE STANDARD DRAWING B-04.00, CANTILEVER RETAINING WALL FOR DETAILS OF CONSTRUCTION NOT SHOWN.
2. SEE SHEET NO. 15 FOR ESTIMATE OF QUANTITIES.
3. FOR PLAN LOCATION, SEE SHT. NO. 8.
4. SEE STD. DWG. M-05.00 FOR DETAILS OF STAIR CONSTRUCTION.



GRAVEL PAD FOUNDATION DETAIL

*SEE RETAINING WALL "A" DETAILS THIS SHT.
FOR RETAINING WALL "B" DETAILS, SEE SHT. 15



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
TONGASS AVE. AT HOADLEY CREEK
RETAINING WALL "A"

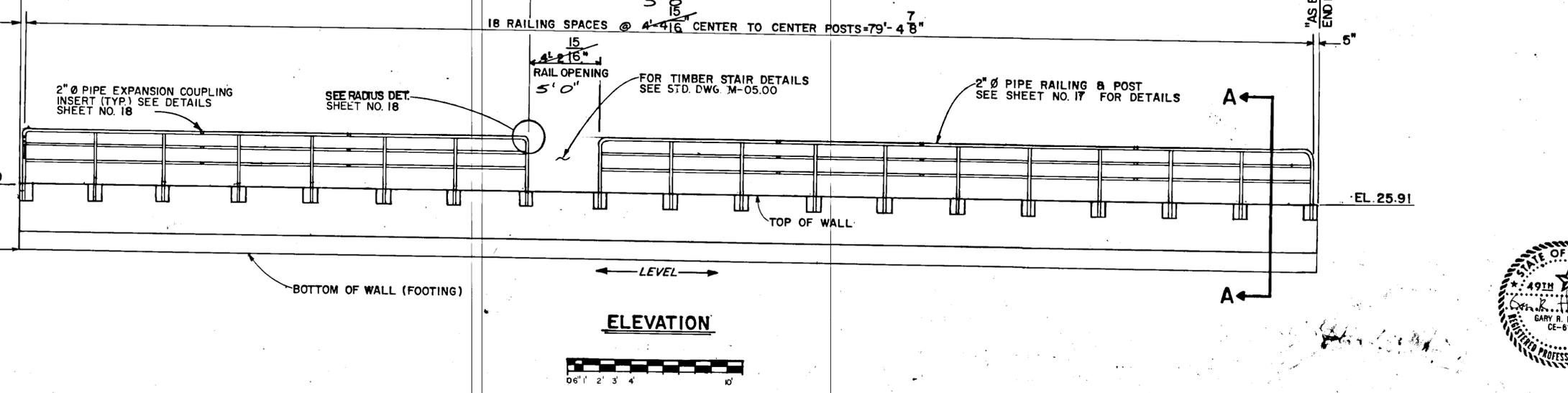
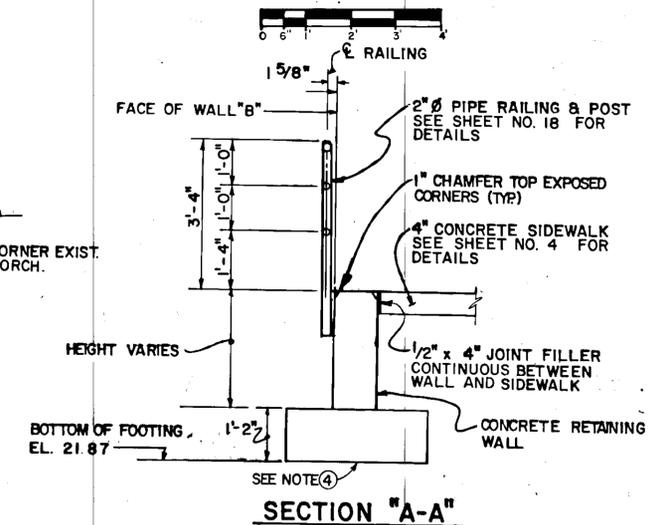
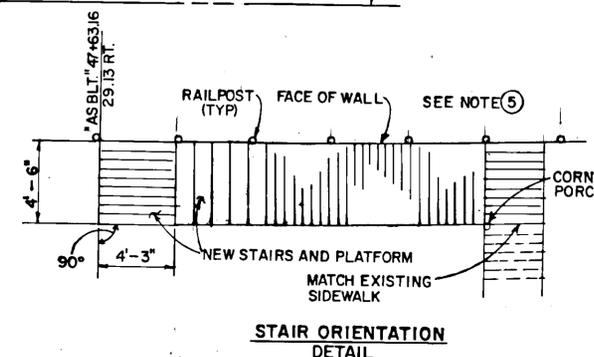
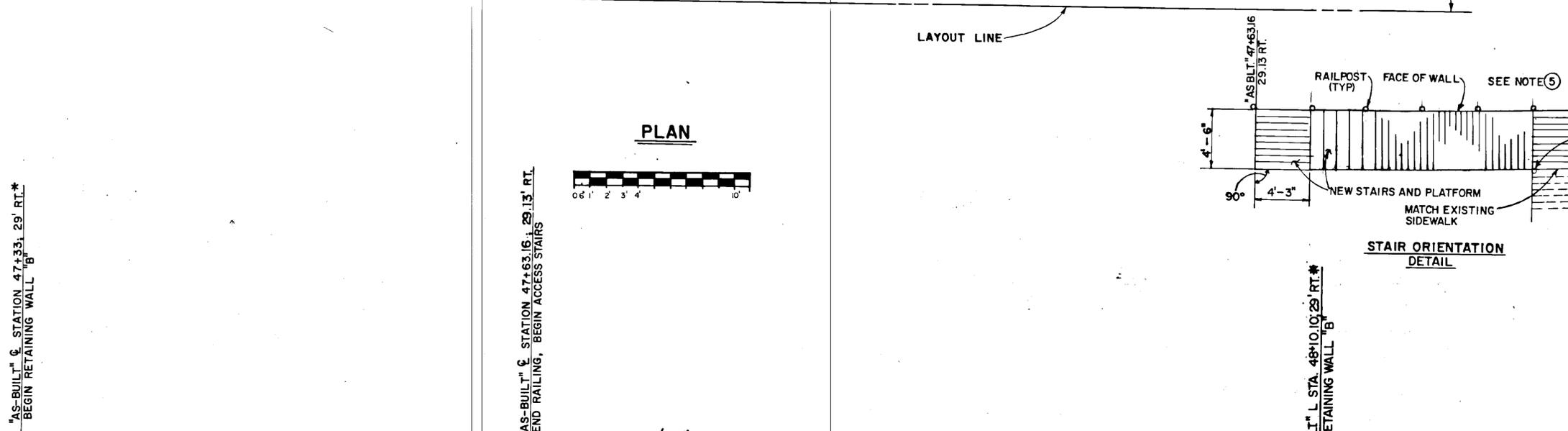
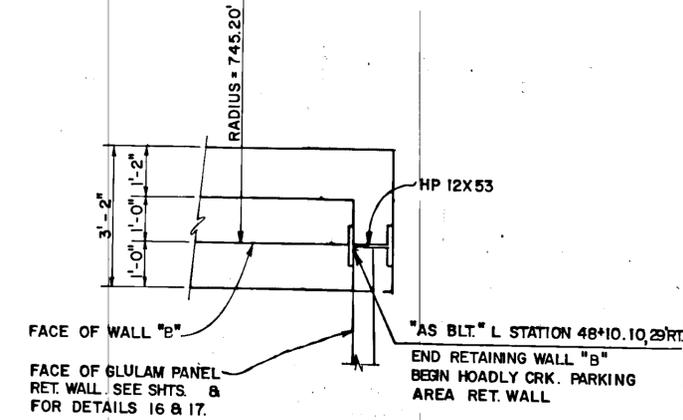
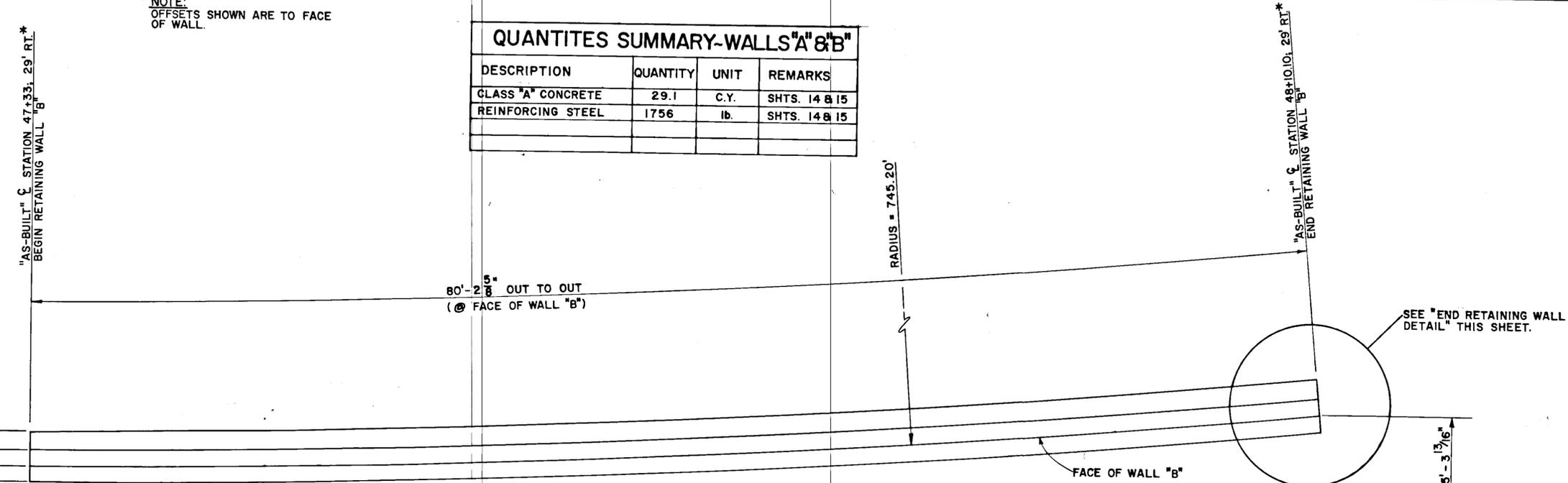
APPROVED BY: *John W. Henry* P.E. CHIEF OF DESIGN 6-15-89
DESIGNED BY: *W.H.* DRAWN: *W.D.A.* DESIGN ENGINEER GROUP "B" 6-15-89
CHECKED: *G.R.H.* DATE: 6-15-89

SCALE: AS SHOWN SHEET 14 OF 34

*NOTE:
OFFSETS SHOWN ARE TO FACE
OF WALL.

QUANTITIES SUMMARY-WALLS "A" & "B"			
DESCRIPTION	QUANTITY	UNIT	REMARKS
CLASS "A" CONCRETE	29.1	C.Y.	SHTS. 14 & 15
REINFORCING STEEL	1756	lb.	SHTS. 14 & 15

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	15	34



- GENERAL NOTES:**
- SEE STANDARD DRAWING B-04.00, CANTILEVER RETAINING WALL FOR DETAILS OF CONSTRUCTION NOT SHOWN.
 - SEE ESTIMATE OF QUANTITIES SUMMARY THIS SHEET & SHEET NO. 8
 - FOR PLAN LOCATION, SEE SHT. NO. 8
 - SEE GRAVEL PAD DETAIL SHEET 14.
 - SEE STD. DWG. M-05.00 FOR DETAILS OF STAIR CONSTRUCTION.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
TONGASS AVE. AT HOADLEY CREEK
RETAINING WALL "B"

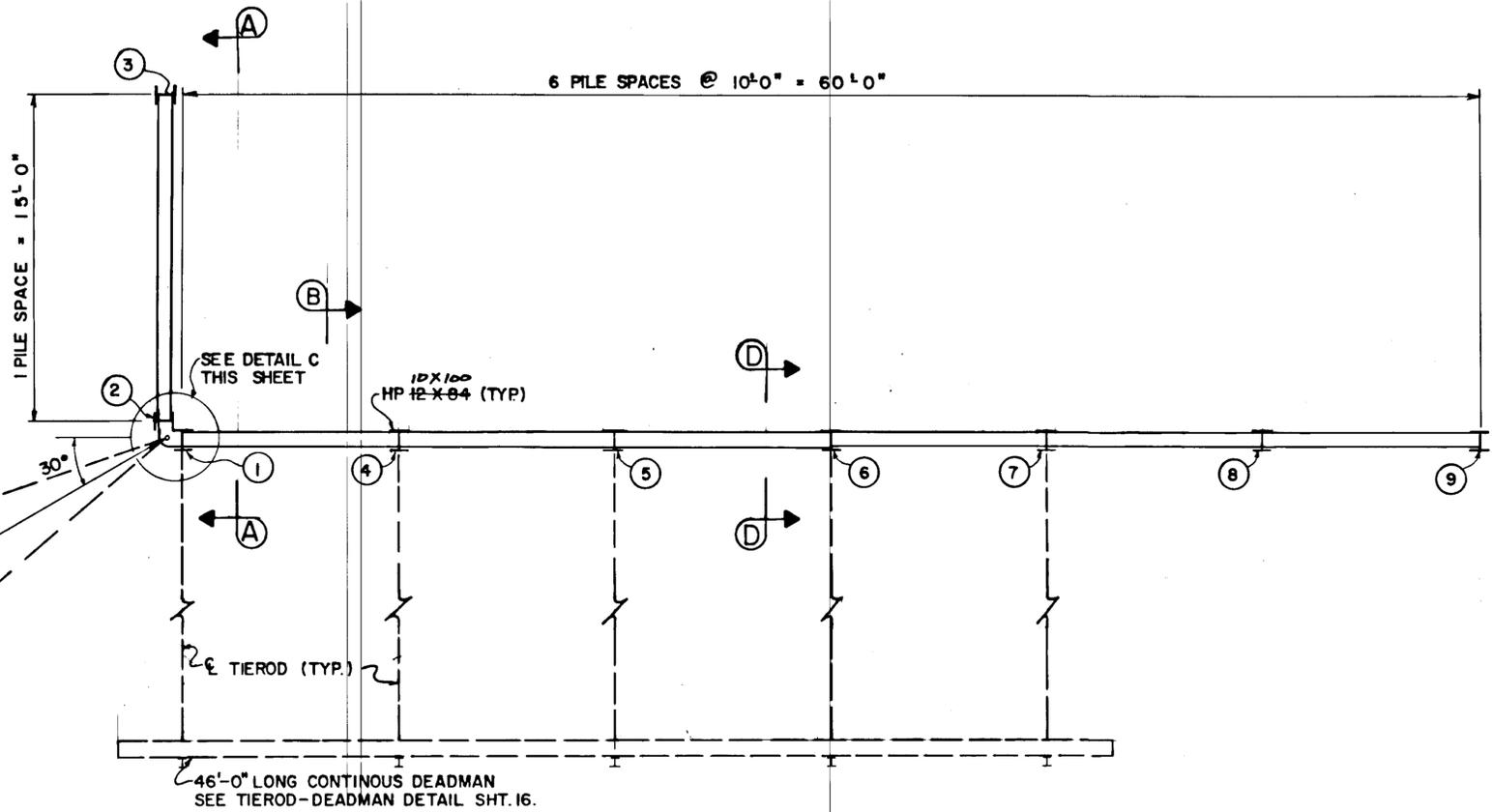
APPROVED BY: *D. Mamed* 6-15-89
P.E. CHIEF OF DESIGN

APPROVED BY: *John Whiting* 6-15-89
P.E. DESIGN ENGINEER GROUP "B"

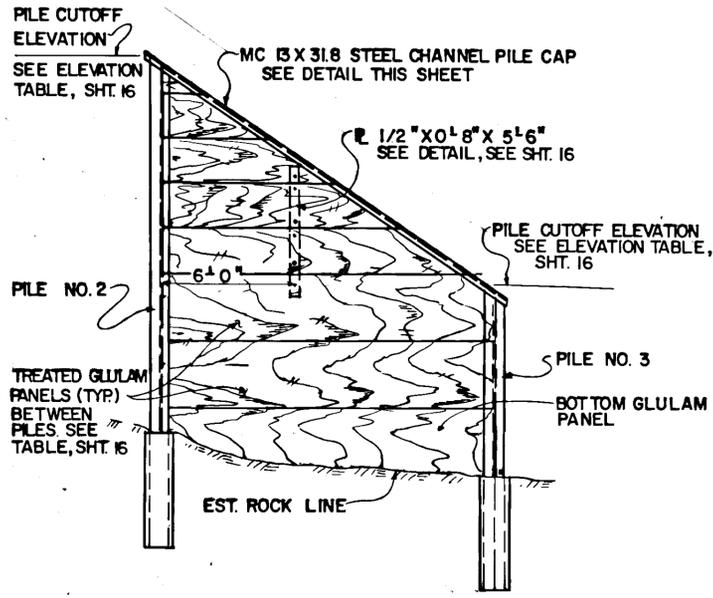
SCALE: AS SHOWN
DESIGNED: B.H.
DRAWN: W.A.
CHECKED: G.R.H.
DATE: 6-15-89

SHEET 15 OF 34

NOTE: SEE ELEVATION SUMMARY, SHT. 16 FOR PILE LAYOUT STATIONING & ELEVATIONS.



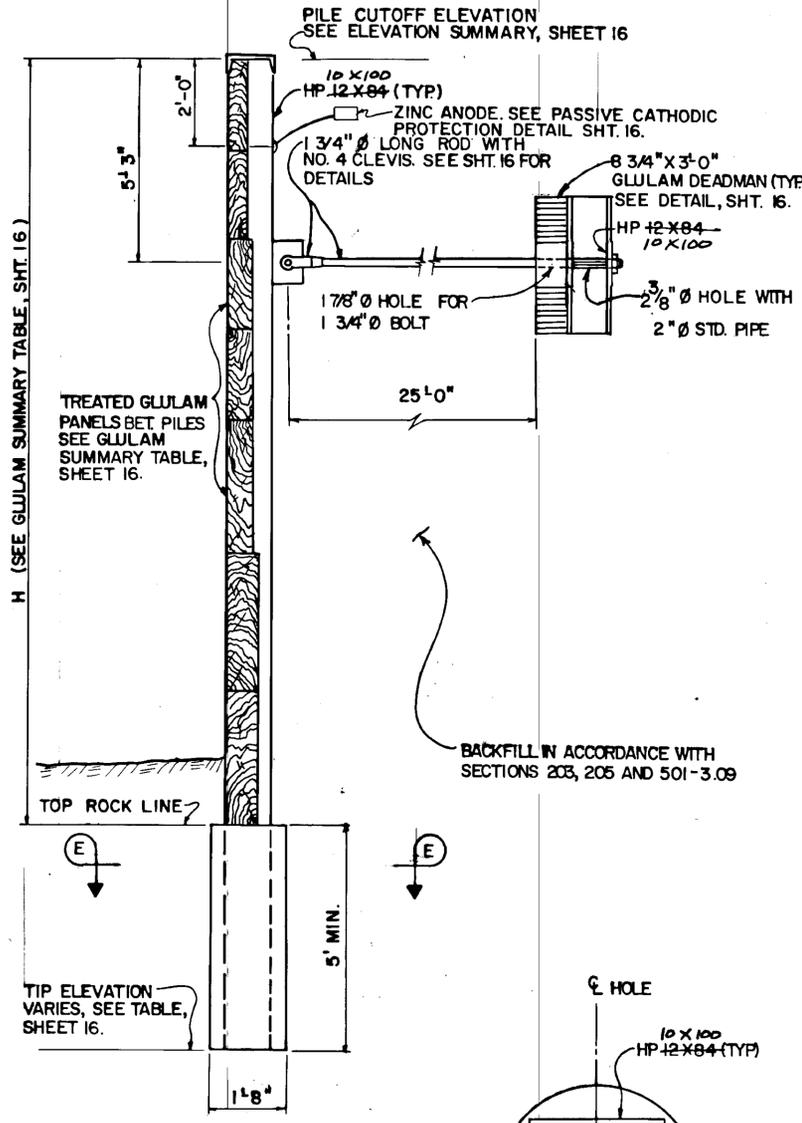
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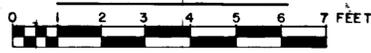
END VIEW A-A



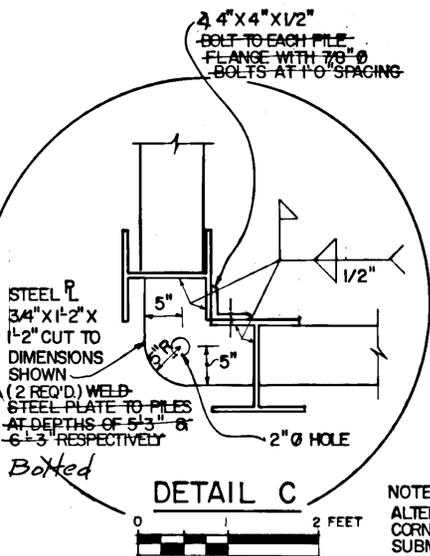
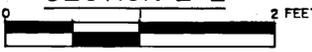
NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND SUMMARY TABLE, SHT. 16.



SECTION B-B



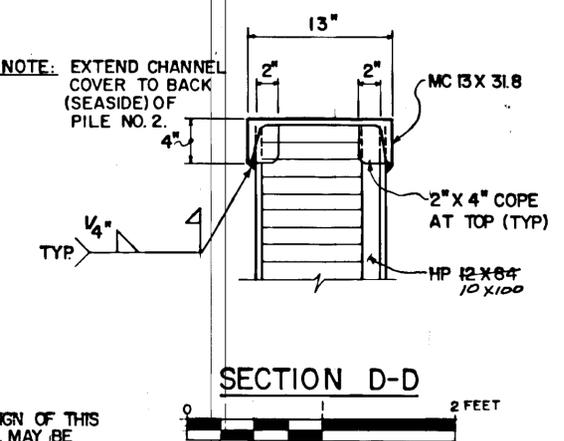
SECTION E-E



DETAIL C



NOTE: ALTERNATE DESIGN OF THIS CORNER DETAIL MAY BE SUBMITTED TO ENGINEER FOR APPROVAL.



SECTION D-D



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

TONGASS AVE. TRAFFIC IMPROVEMENTS
HOADLY CRK. PARKING AREA
RETAINING WALL

APPROVED BY: *John W. Almy* 6-15-89
DESIGN GROUP CHIEF DATE

RECOMMENDED BY: _____ DATE

DESIGN ENGINEER, GROUP

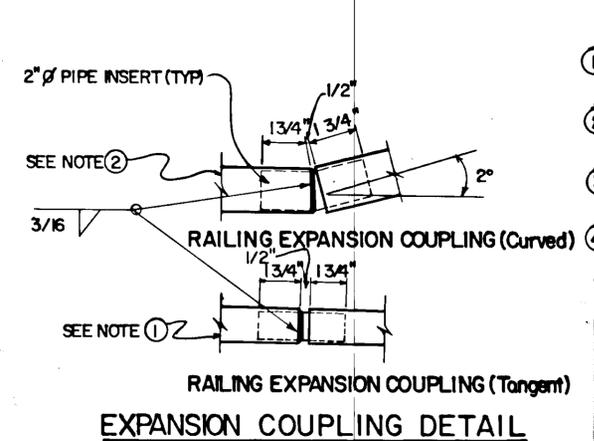
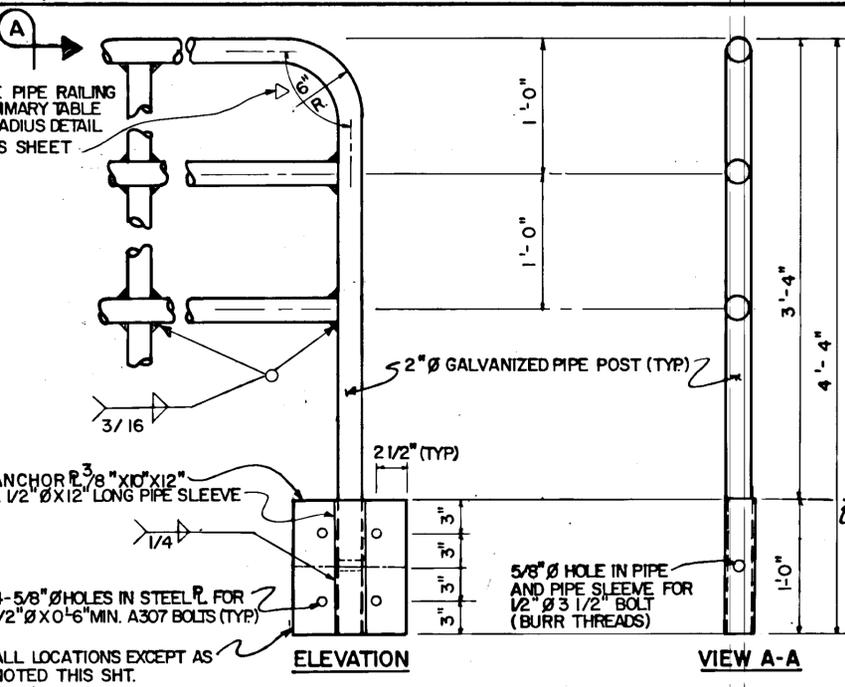
PREPARED BY: *Garrett* *John W. Almy*
PROJECT MANAGER LEAD DESIGNER

DESIGNED BY: WHH
DRAWN BY: cda
CHECKED BY: G.R.H.

SCALE: Noted
DATE: June 15, 1989
SHEET 17 OF 34



NO.	DATE	DESCRIPTION OF CHANGE



- COUPLING NOTES**
- ALL LOCATIONS EXCEPT RETAINING WALL "B"
 - RETAINING WALL "B" ONLY.
 - ALL FIELD WELDS SHALL BE SPRAY METALIZED.
 - CURVED EXPANSION COUPLING MAY BE FABRICATED FROM TANGENT COUPLING CUT IN HALF & TO REQUIRED ANGLE AND BUTT WELDED. SHOP WELD SHALL BE GROUND FLUSH.

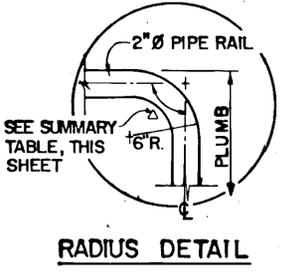
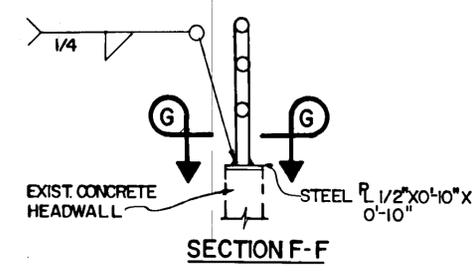
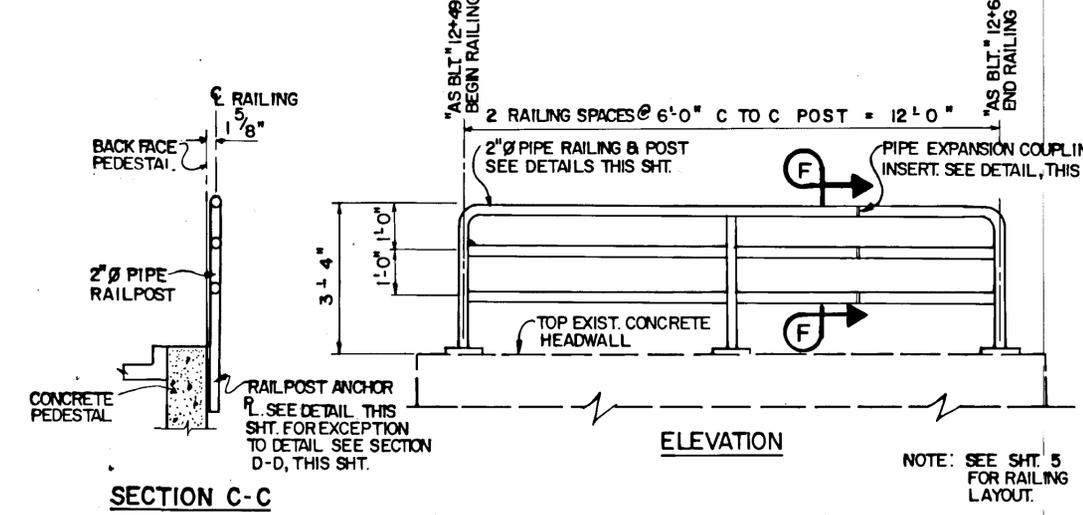
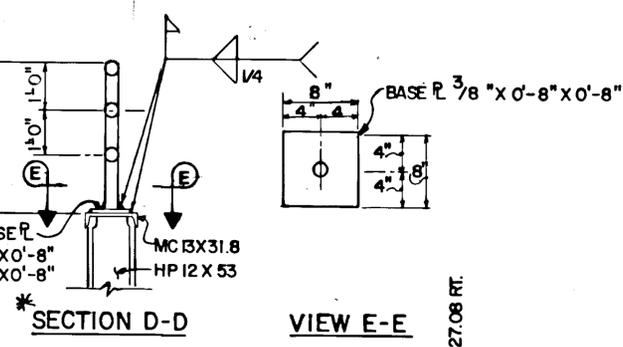
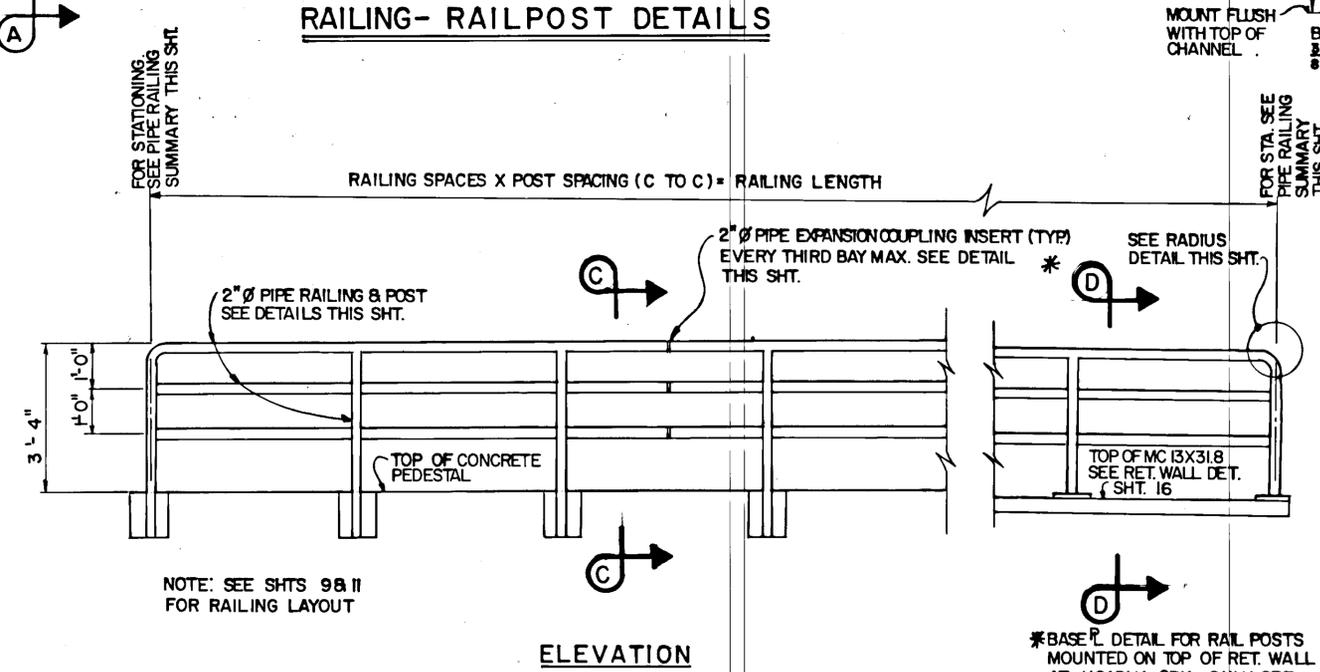
PIPE RAILING SUMMARY TABLE					
BEGIN RAILING STATION	END RAILING STATION	RAILING SPACES	POST SPACING	RAILING LENGTH	REMARKS
"AS BLT." 12+49.27.08 LT.	"AS BLT." 12+61.27.08 LT.	2	6'-0"	12'-0"	90° SEE SHT 5
" " 46+29.85, 29.14 RT.	" " 46+27.85, 27.17 RT.	4	5'-0"	20'-0"	90° SEE SHTS 8 & 14
" " 46+60.42, 27.14 RT.	" " 46+69.58, 27.14 RT.	8	4'-7"	30'-0"	90° SEE SHTS 8 & 14
" " 47+33.40, 29.14 RT.	" " 48+09.70, 29.14 RT.	10	4'-4 1/2"	44'-7 1/2"	90° " " 8, 15
"A" 0+29.59, 87.07 RT.	"A" 1+05.42, 87.07 RT.	16	4'-8 7/8"	75'-16"	91° " " 9
"A" 1+06.36, 86.81 RT.	"A" 1+43.21, 66.46 RT.	9	4'-8 1/8"	42'-9"	92° 34' " " 9
"A" 1+43.67, 65.71 RT.	"A" 1+43.67, 11.59 RT.	12	4'-6 1/8"	54'-1 1/2"	91° 25' " " 9
"B" 2+02.64, 28.08 RT.	"B" 2+02.64, 40.51 LT.	15	4'-6 7/8"	68'-7 1/8"	90° " " 11
47+21.4 / 29.14 RT.	47+66.1 / 29.14 RT.	7		34.7	
47+71 / 29.14 RT.	48+10.7 / 29.14 RT.	7		39.7	
				TOTAL LENGTH	372 LF.

** RAIL OPENINGS IN THIS RAILING-SEE SHEETS 14 & 15 FOR LAYOUT.

RAILING NOTES

I. ALL PIPE RAILING, POST & ASSOCIATED HARDWARE SHALL BE GALVANIZED.

Railing Adjusted to 5'-0" Post Spacing to Allow for EASIER MAINTENANCE REPLACEMENT. LAST SECTION Adjusted to Fit Required Length

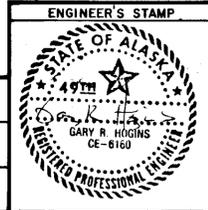


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

TONGASS AVE. TRAFFIC IMPROVEMENTS
PIPE RAILING DETAILS

APPROVED BY: *John W. Henry* DESIGN GROUP CHIEF 6-15-89 DATE
RECOMMENDED BY: _____ DESIGN ENGINEER, GROUP "B" DATE
PREPARED BY: *Barry R. Hays* PROJECT MANAGER
DESIGNED BY: W.H. DATE
DRAWN BY: *Ch* DATE
CHECKED BY: G.R.H. DATE

SCALE: NONE
DATE: June 15, 1989
SHEET 18 OF 34

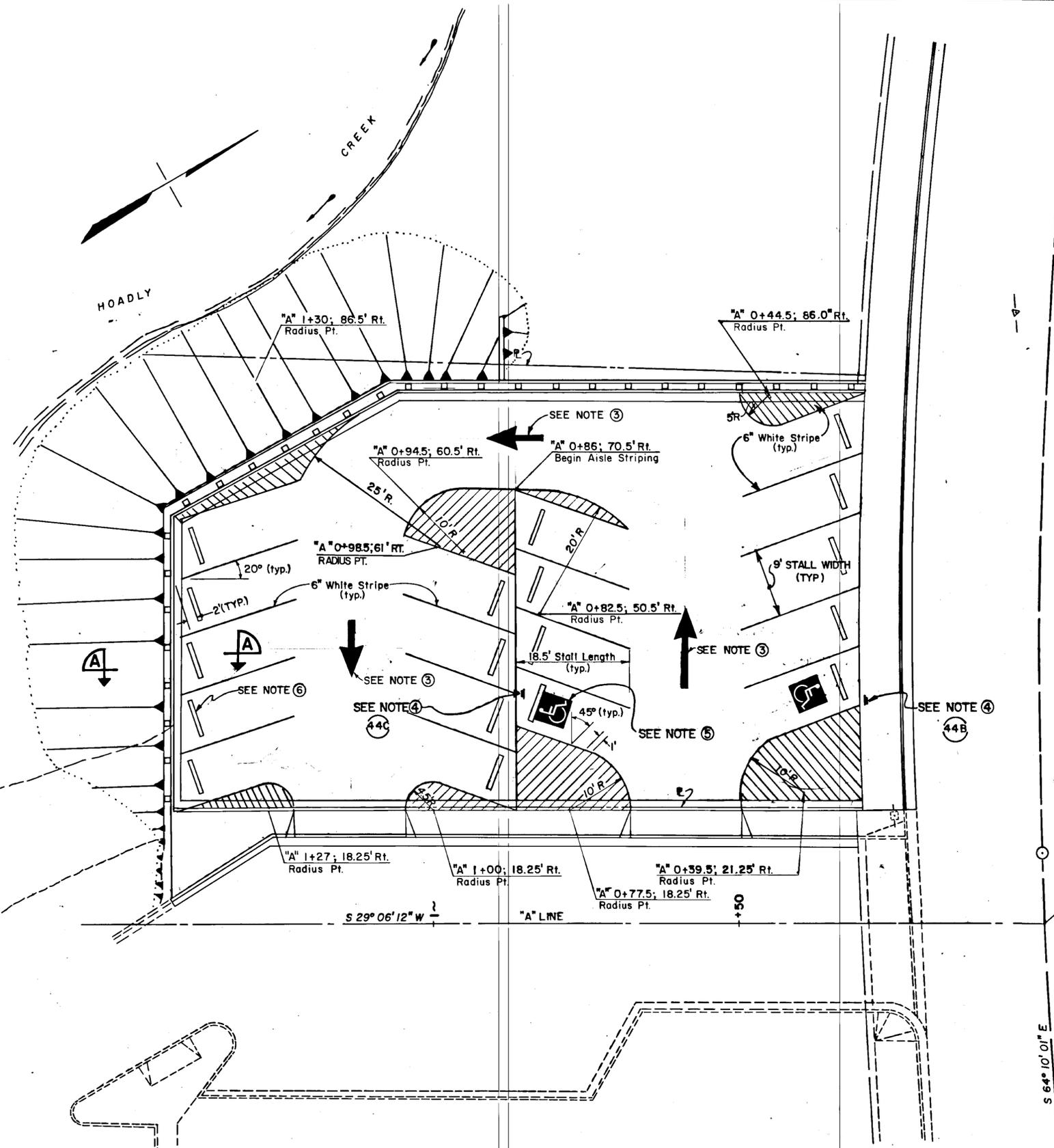
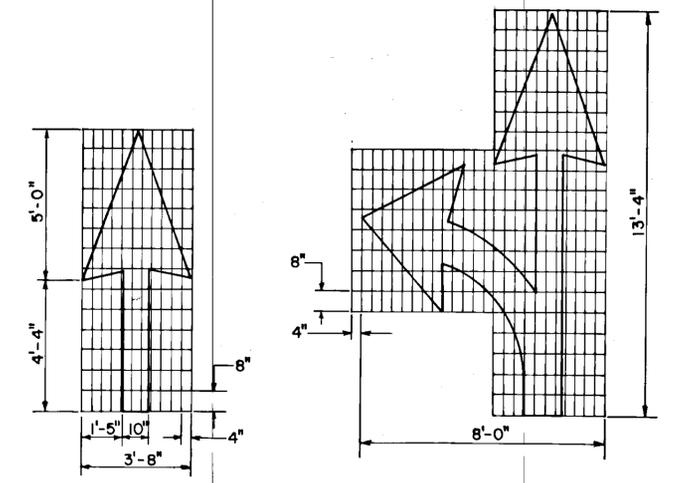
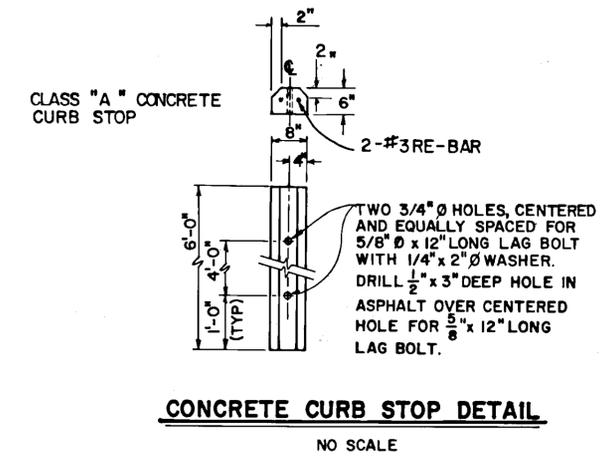
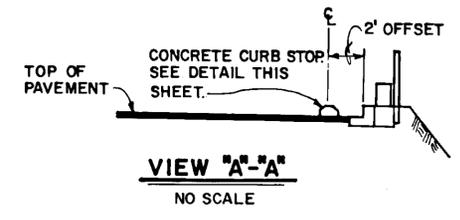


DATE	DESCRIPTION OF CHANGE

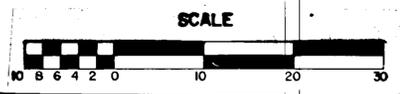
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(3) & 68864	1989	19	34

GENERAL NOTES

- ① ALL MARKINGS SHALL CONFORM TO THE LATEST EDITION OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ② ALL MARKINGS SHALL BE WHITE.
- ③ PAINTED ARROWS SHALL BE CENTERED IN AISLES AND CONSTRUCTED AS SHOWN ON DETAIL THIS SHEET.
- ④ SEE SIGNING SCHEDULE SHT. 32.
- ⑤ HANDICAP PARKING SYMBOL CENTERED IN STALL. SEE DETAIL SHT. NO. 20.
- ⑥ SEE CURB STOP DETAIL THIS SHT. & SPECIAL PROVISIONS SECTION 501.



STRIPING PLAN



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

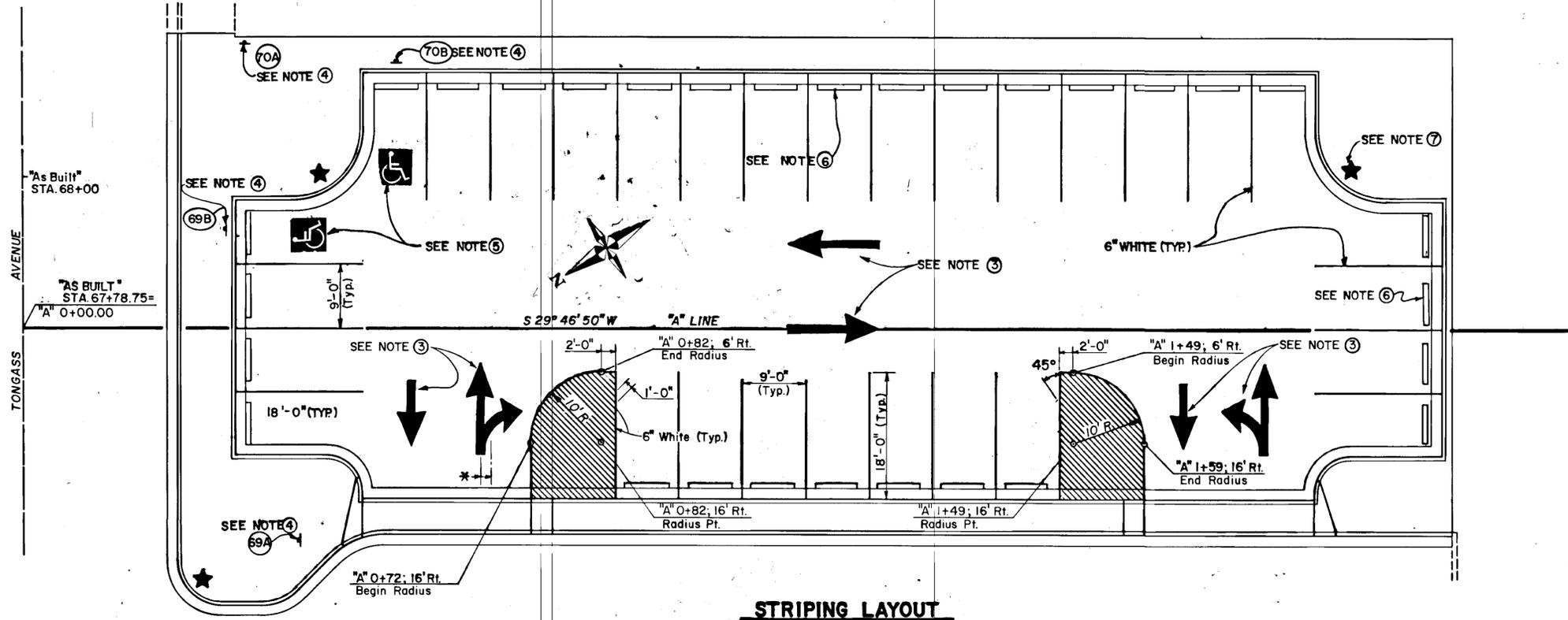
**TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
HOADLY CREEK PARKING AREA
STRIPING PLAN**

APPROVED BY: *Omendell* 6-15-89

APPROVED BY: *John W. Henry* 6-15-89
JOHN W. HENRY, P.E. DESIGN ENGINEER GROUP "B"

SCALE: AS SHOWN	DESIGNED: B.H.	DRAWN: W.D.A.
CHECKED: G.R.H.	DATE: 6-15-89	SHEET 19 OF 34

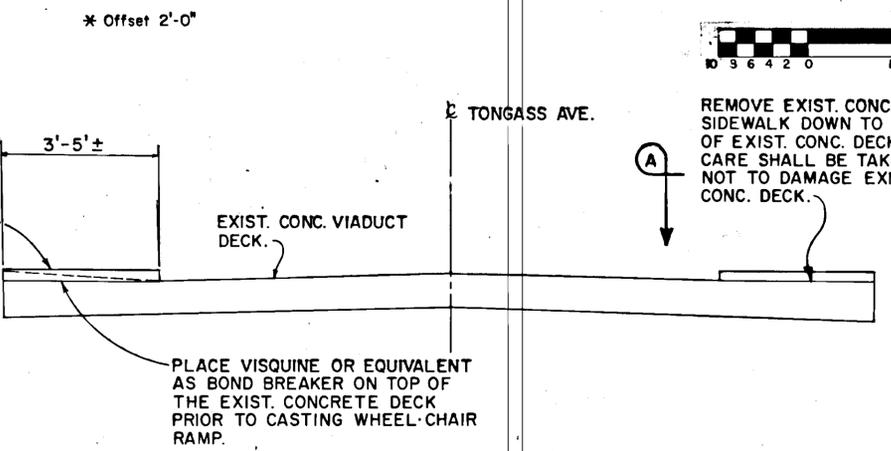
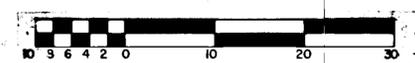
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	20	34



GENERAL NOTES

- ① ALL MARKINGS SHALL CONFORM TO THE LATEST EDITION OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ② ALL MARKINGS SHALL BE WHITE.
- ③ PAINTED ARROWS SHALL BE CENTERED IN AISLES AND CONSTRUCTED AS SHOWN ON DETAIL, SHEET 19.
- ④ SEE SIGNING SCHEDULE SHT. 32
- ⑤ HANDICAP PARKING SYMBOL. SEE DETAIL THIS SHT.
- ⑥ CONCRETE CURB STOP TYPICAL EACH STALL. SEE ADDITIONAL DETAILS SHEET NO. 19.
- ⑦ CONSTRUCT HANDICAP WHEELCHAIR ACCESS RAMPS (TYP.) CENTER IN RADIUS. SEE SHT. NO. 4 FOR DETAILS.

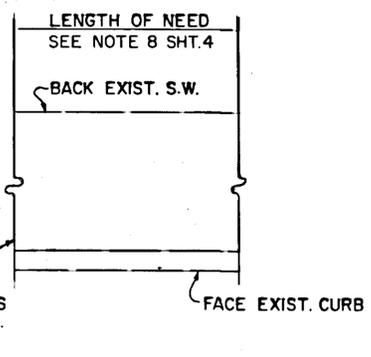
STRIPING LAYOUT



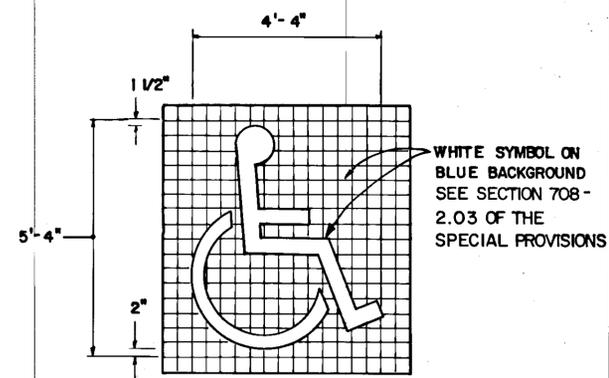
ELEVATION

VIADUCT WHEEL-CHAIR RAMP DETAIL

NO SCALE



PLAN VIEW A-A



HANDICAP STRIPING SYMBOL DETAIL

NO SCALE



**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**

S.E. REGION DESIGN & CONSTRUCTION

**TONGASS AVENUE TRAFFIC IMPROVEMENTS
PROJECT NO. 68864
BAR HARBOR PARKING AREA
STRIPING PLAN**

APPROVED BY: *J. Maxwell* 6-15-89

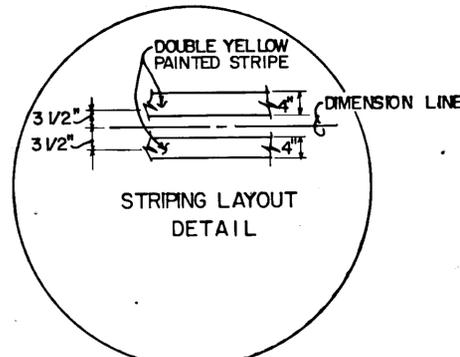
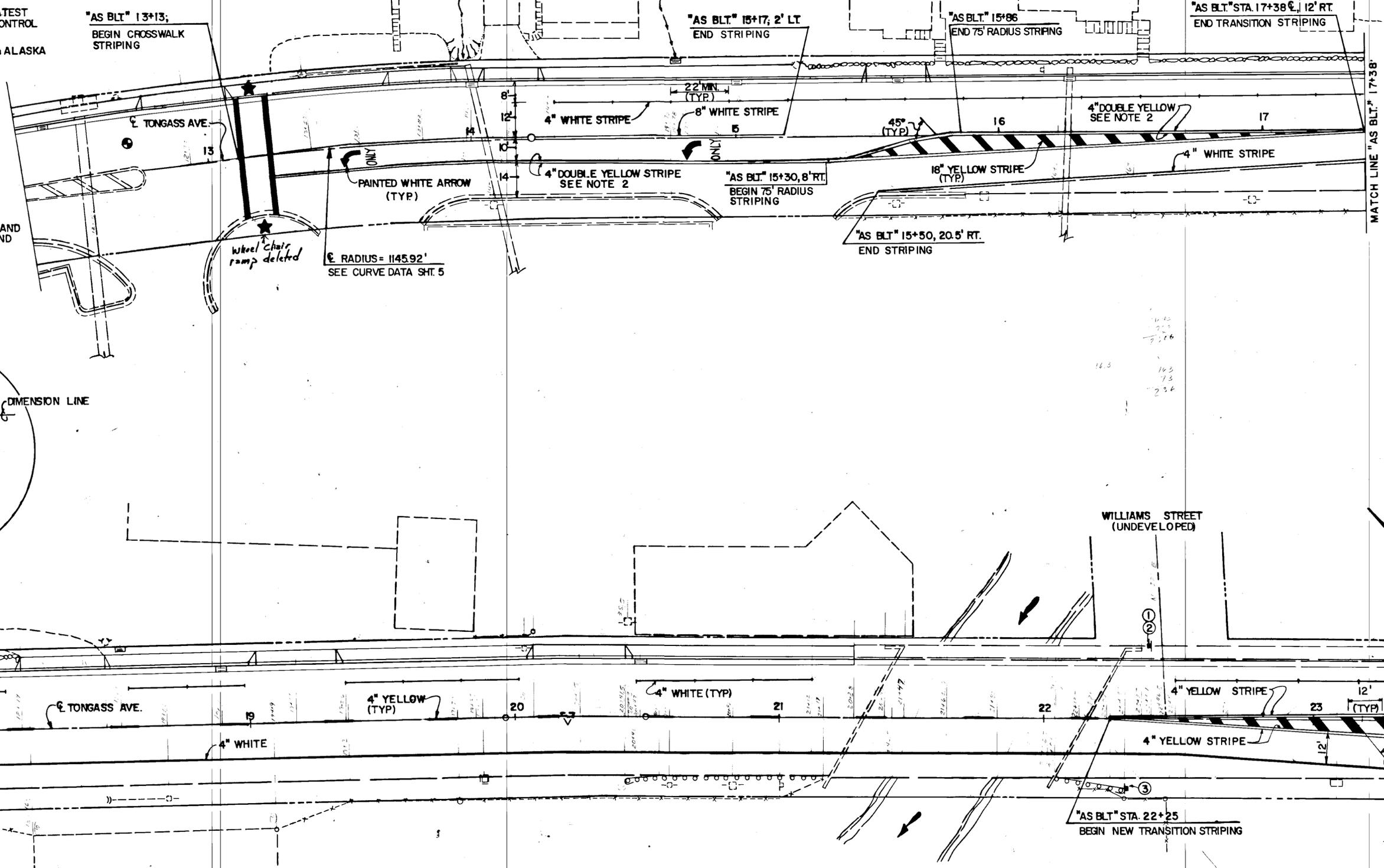
APPROVED BY: *John W. Henry* 6-15-89

DESIGNED: B.H. DRAWN: B.H. CHECKED: G.R.H. DATE: June 15, 1989

SCALE: AS SHOWN SHEET 20 OF 34

STRIPING NOTES

ALL MARKINGS SHALL CONFORM TO THE LATEST EDITION OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 SEE STRIPING LAYOUT DETAIL THIS SHT. & ALASKA TRAFFIC MANUAL.
 FOR SIDEWALK & DRAINAGE DETAILS, SEE SHTS. 4, 12 & 13.
 FOR STRIPING SUMMARY, SEE SHT. 22.
 FOR ADDITIONAL STRIPING DETAILS SEE STD. DWGS. T-20.00, T-21.01, AND T-22.01.
 ★ INDICATES LOCATION OF WHEELCHAIR RAMPS TO BE INSTALLED (TYP.)
 ALL MARKINGS SHALL BE WHITE UNLESS OTHERWISE NOTED.
 PARKING LANE STRIPING SHALL BEGIN AND END A MINIMUM OF 2 FEET AFTER AND BEFORE CURB CUTS RESPECTIVELY.



MATCH LINE "AS BLT." 17+38

MATCH LINE "AS BLT." 23+40

BY	DATE	DESCRIPTION OF CHANGE

RECORD OF REVISIONS

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

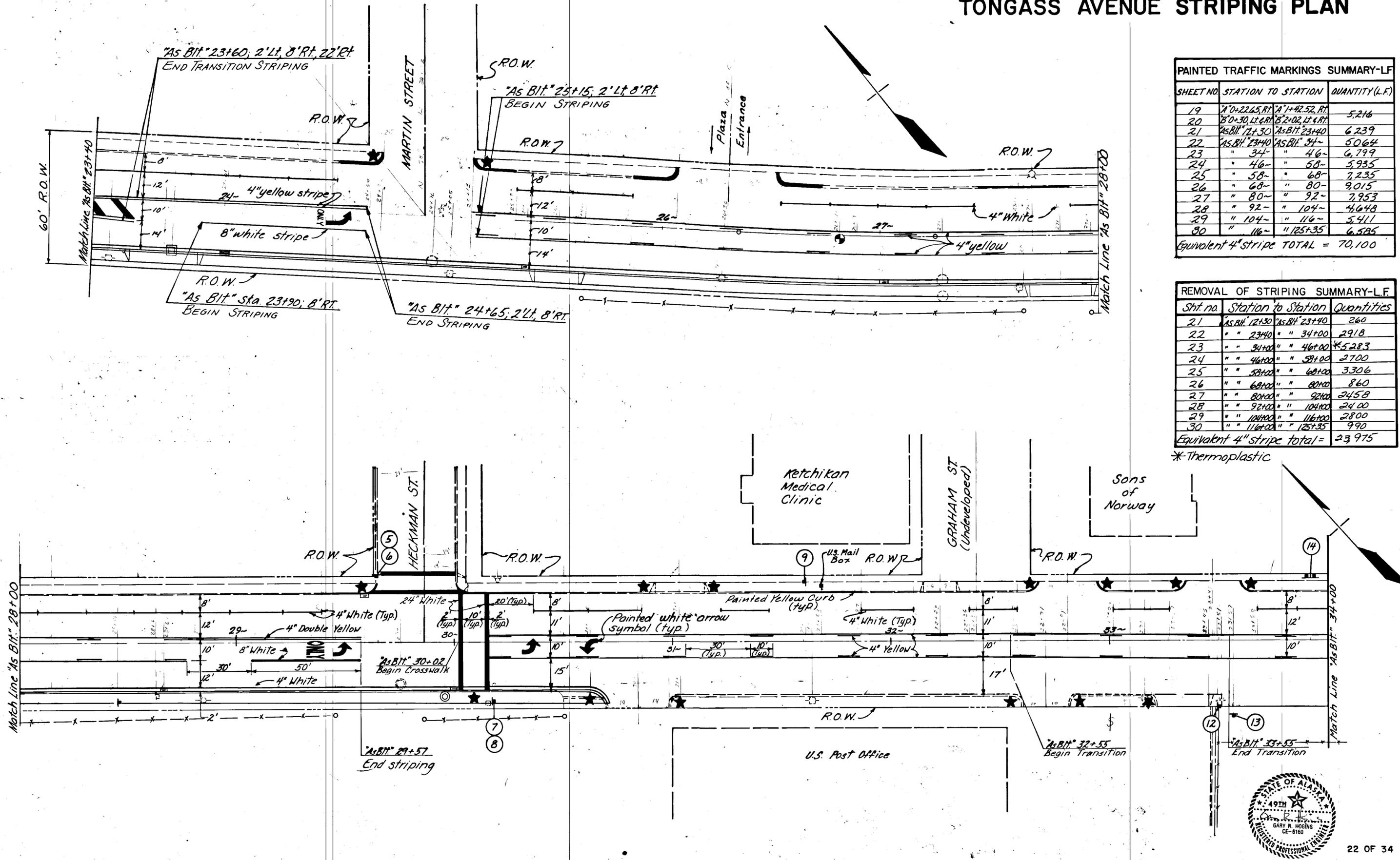
**TONGASS AVE. TRAFFIC IMPROVEMENTS
 SHUTTLE FERRY ENTRANCE TO MARTIN ST.
 STRIPING PLAN**

APPROVED BY: *John W. Henry* 6/15/89
 DESIGN GROUP CHIEF
 RECOMMENDED BY: _____
 DESIGN ENGINEER, GROUP _____
 PREPARED BY: *W.D.A.*
 PROJECT MANAGER

DESIGNED BY: *W.H.*
 DRAWN BY: *W.D.A.*
 CHECKED BY: *G.A.H.*
 SCALE: _____
 DATE: June 15, 1989
 SHEET 21 OF 34



TONGASS AVENUE STRIPING PLAN



SHEET NO.	STATION TO STATION	QUANTITY (L.F.)	
19	1'0"+22.65 RT	1'1"+42.52 RT	5,216
20	8'0"+30 Lt & Rt	8'2"+02 Lt & Rt	6,239
21	As Bit 12+30	As Bit 23+40	5,064
22	As Bit 23+40	As Bit 34+00	6,799
23	" 34+00	" 46+00	5,935
24	" 46+00	" 58+00	7,235
25	" 58+00	" 68+00	9,015
26	" 68+00	" 80+00	7,953
27	" 80+00	" 92+00	4,648
28	" 92+00	" 104+00	5,411
29	" 104+00	" 116+00	6,585
30	" 116+00	" 125+35	
Equivalent 4" stripe TOTAL =		70,100	

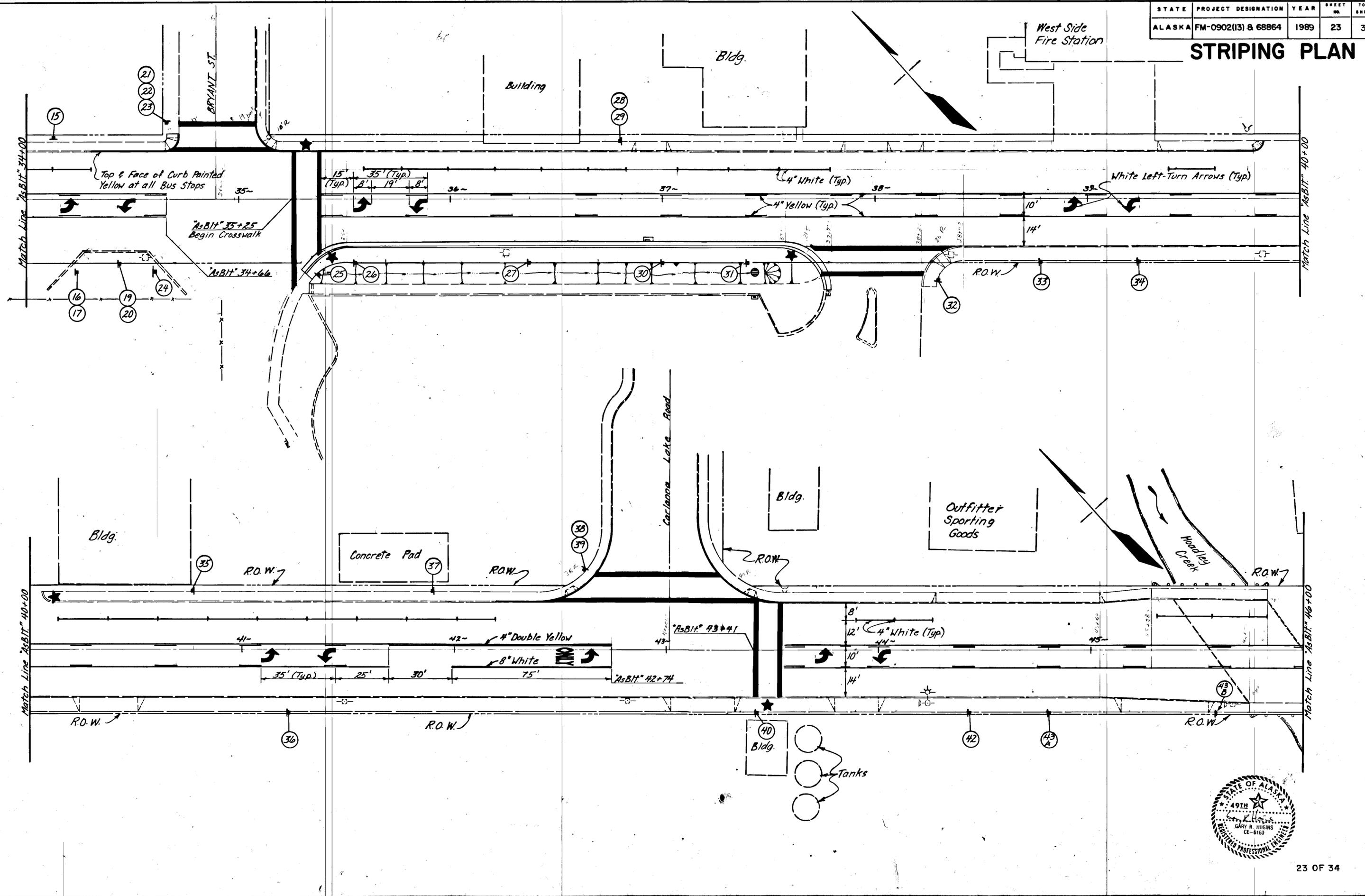
Sht. no.	Station to Station	Quantities	
21	As Bit 12+30	As Bit 23+40	260
22	" " 23+40	" " 34+00	2918
23	" " 34+00	" " 46+00	*5,283
24	" " 46+00	" " 58+00	2,700
25	" " 58+00	" " 68+00	3,306
26	" " 68+00	" " 80+00	860
27	" " 80+00	" " 92+00	2,458
28	" " 92+00	" " 104+00	2,400
29	" " 104+00	" " 116+00	2,800
30	" " 116+00	" " 125+35	990
Equivalent 4" stripe total =		23,975	

*Thermoplastic



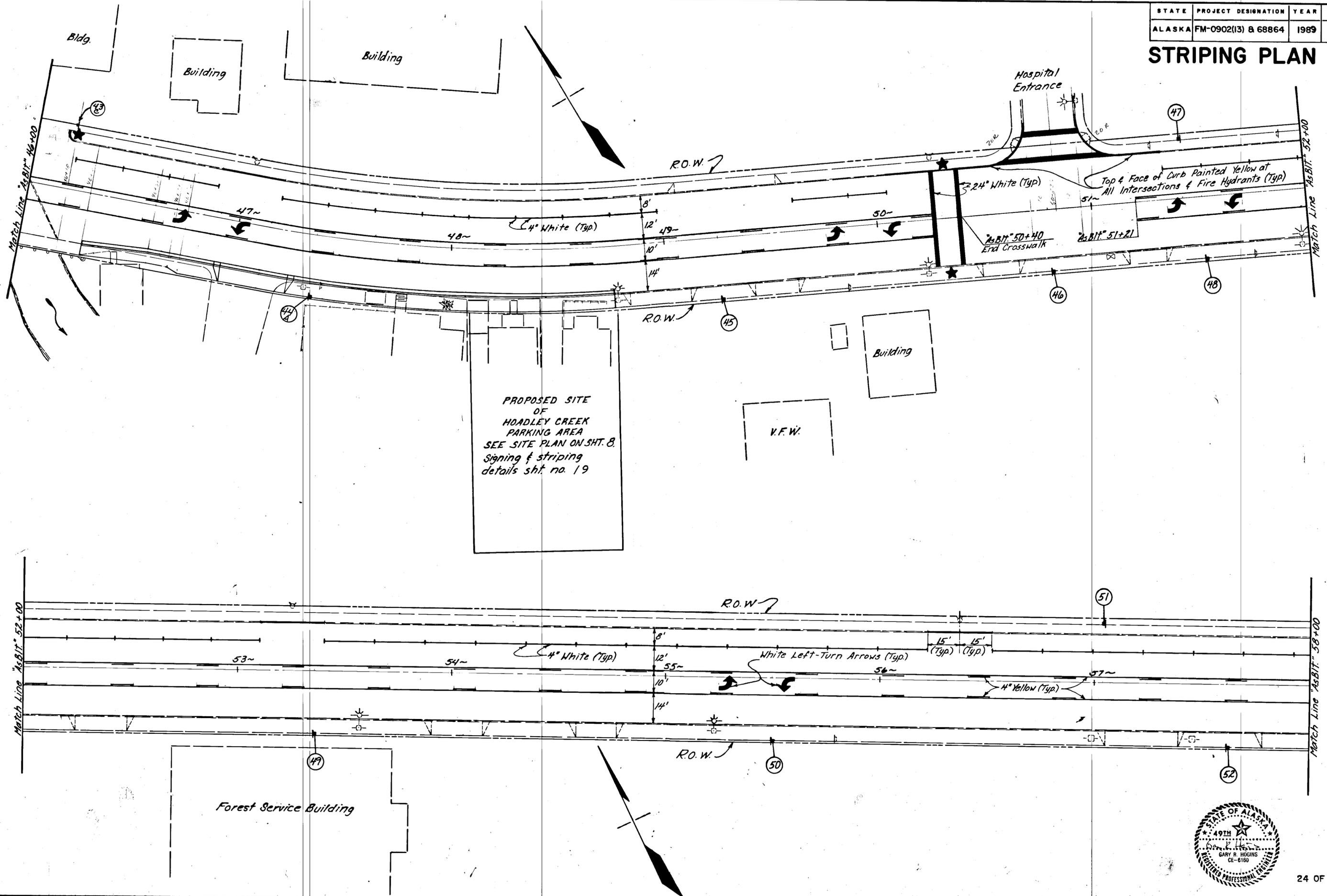
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	23	34

STRIPING PLAN



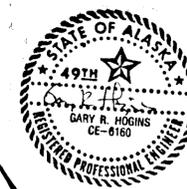
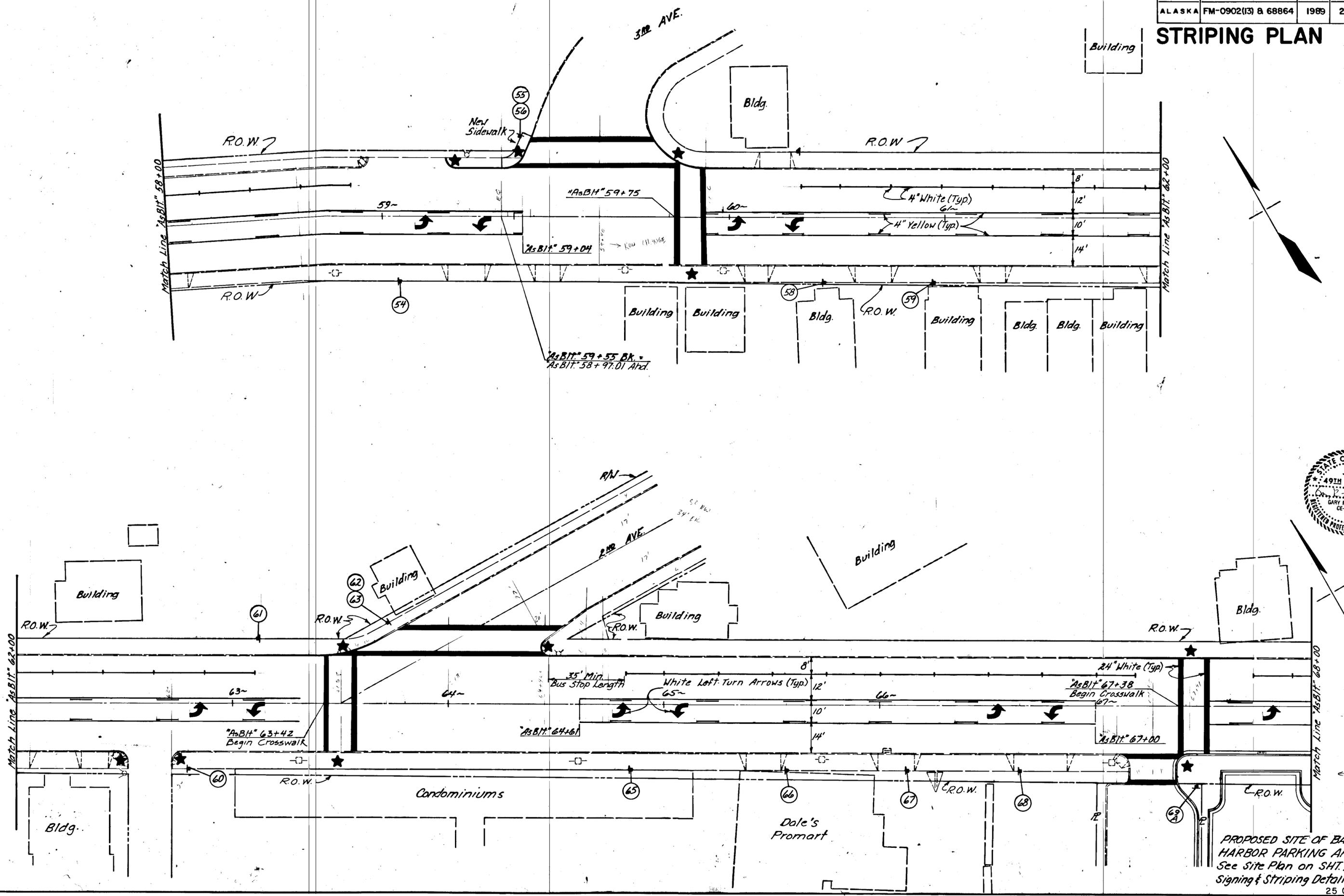
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	24	34

STRIPING PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) B 68864	1989	25	34

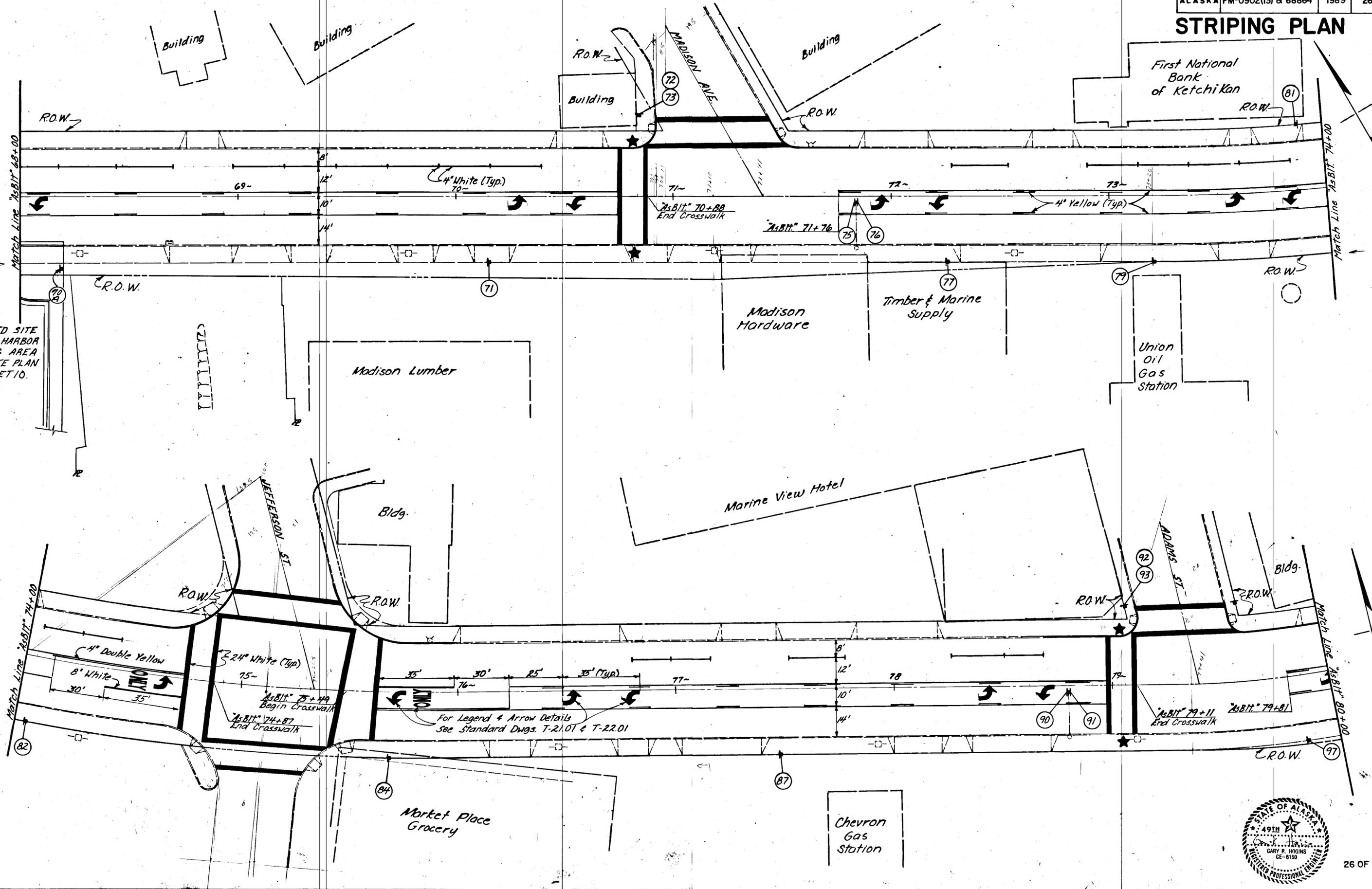
STRIPING PLAN



PROPOSED SITE OF BAR HARBOR PARKING AREA
See Site Plan on SHT. 10,
Signing & Striping Details, sht. 20
25 OF 34

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	26	34

STRIPING PLAN



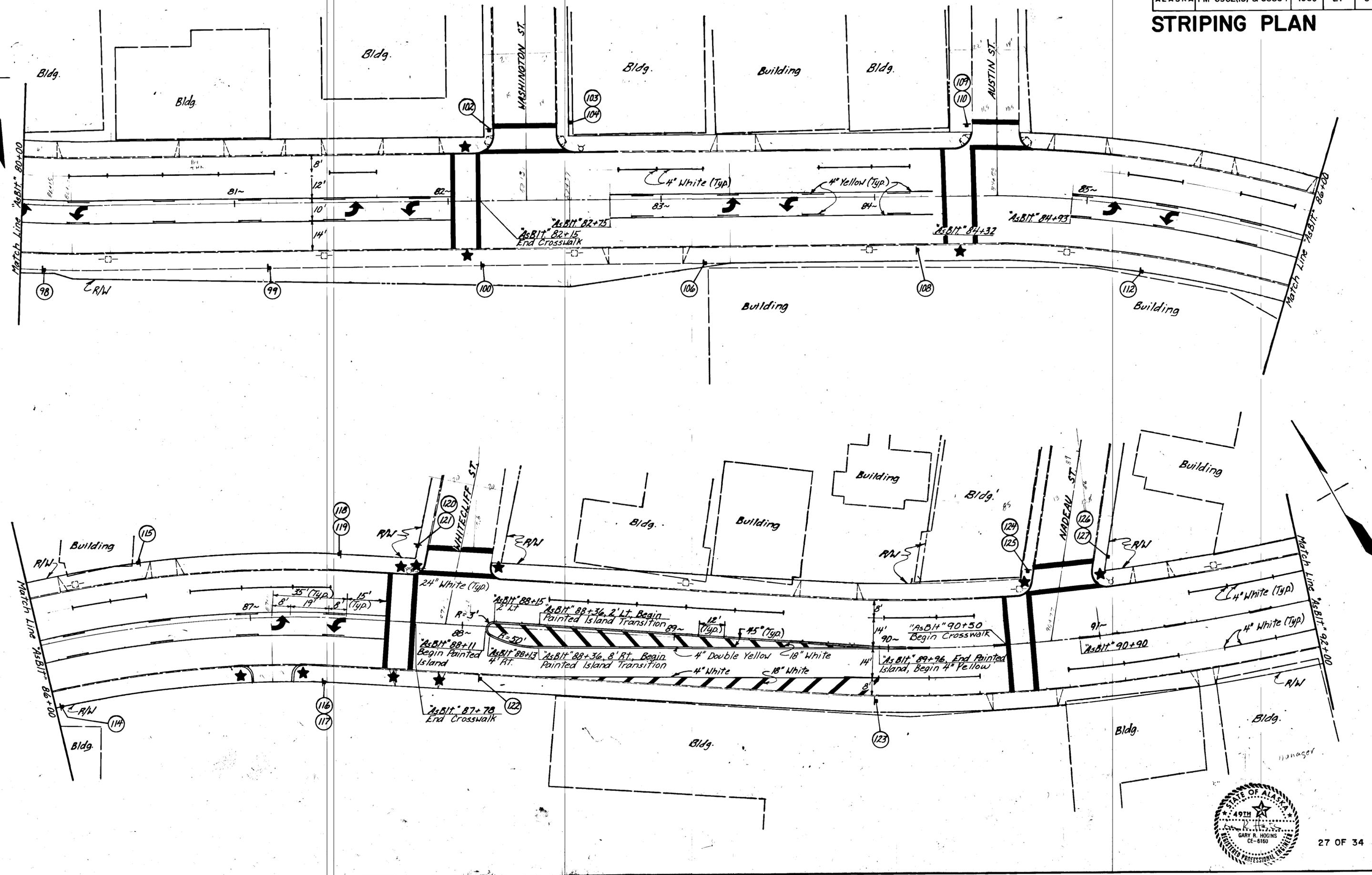
PROPOSED SITE OF BAR HARBOR PARKING AREA SEE SITE PLAN ON SHEET 10.

For Legend & Arrow Details see Standard Dwg. T-21.01 & T-22.01



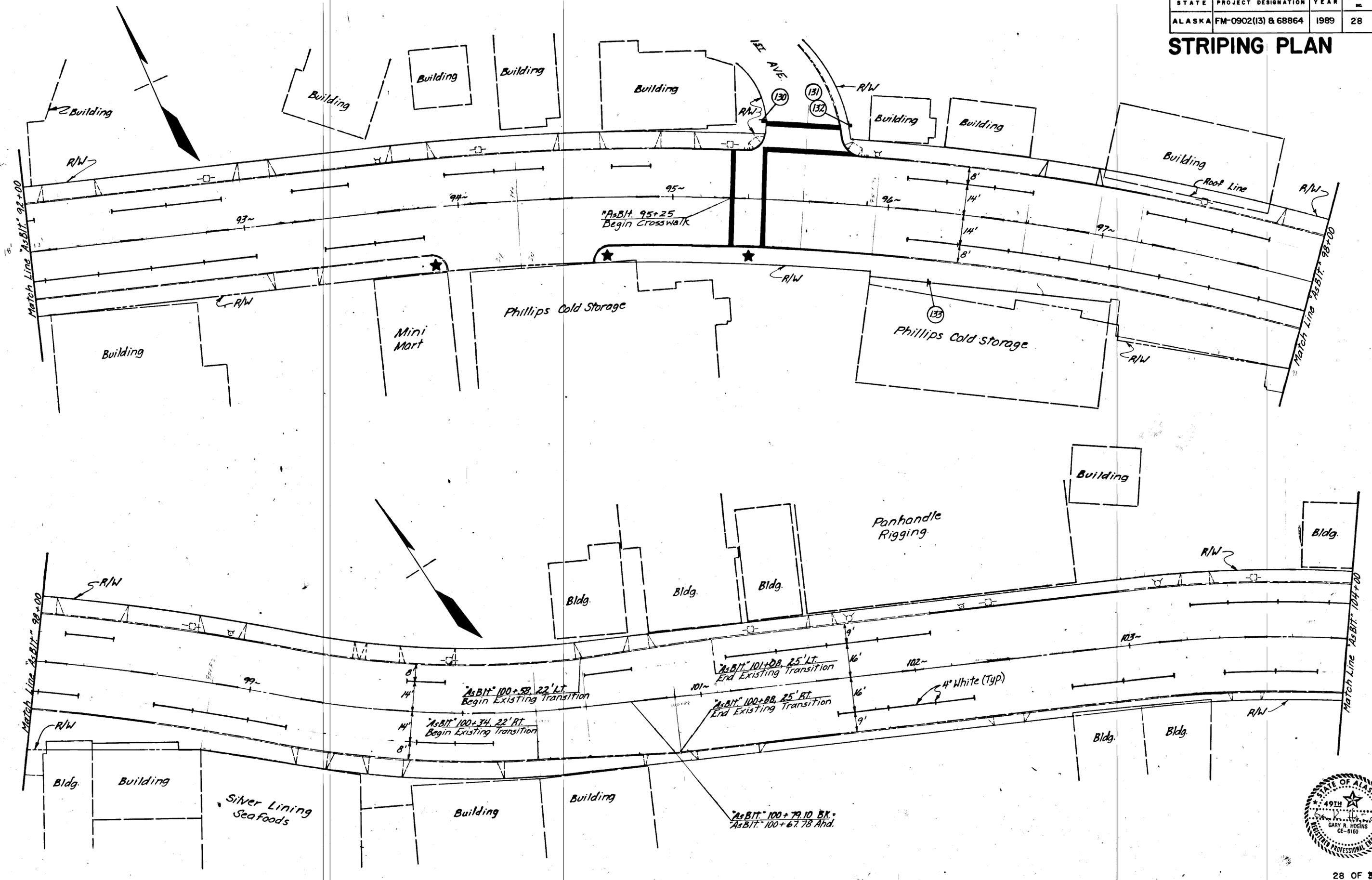
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) 8 68864	1989	27	34

STRIPING PLAN



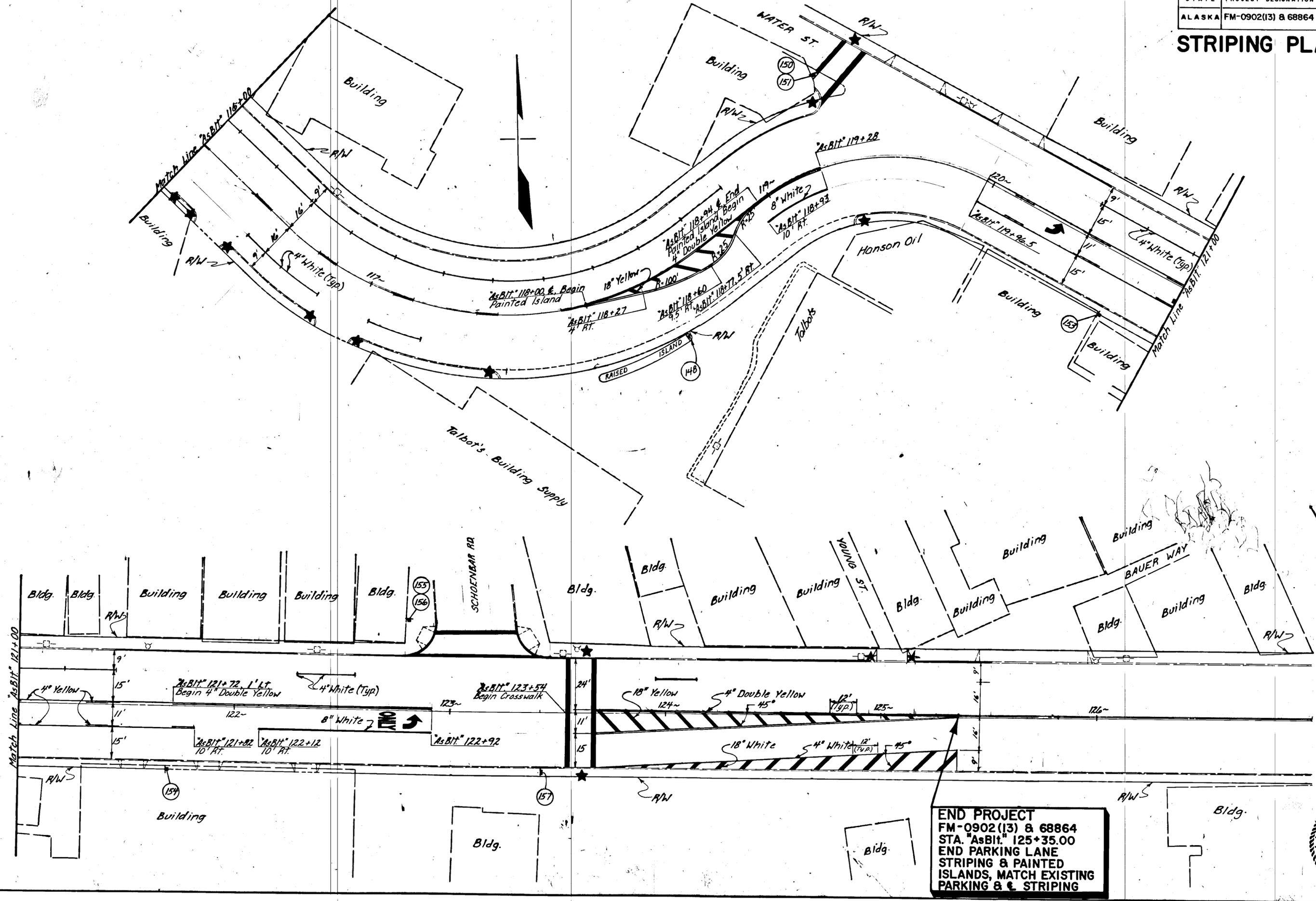
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	28	34

STRIPING PLAN



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FM-0902(13) & 68864	1989	30	34

STRIPING PLAN



END PROJECT
 FM-0902(13) & 68864
 STA. "As Bit." 125+35.00
 END PARKING LANE
 STRIPING & PAINTED
 ISLANDS, MATCH EXISTING
 PARKING & STRIPING



SIGNING SCHEDULE

SIGNING SCHEDULE & SIGNING NOTES

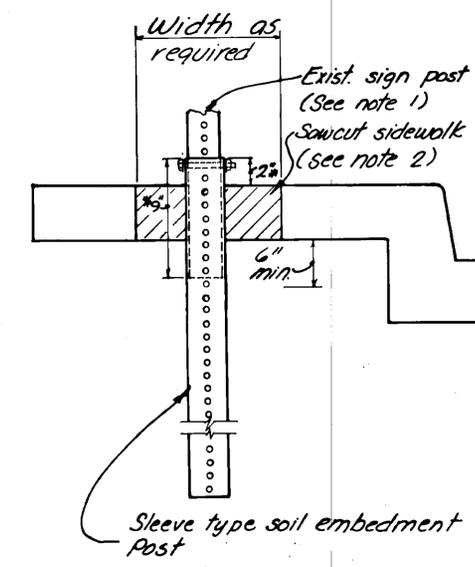
SIGN NO.	STATION	OFFSET		CODE NUMBER	LEGEND	SIGN PANEL			NO. POSTS	TYPE	POST			FACING TRAFFIC	REMARKS
		LEFT	RIGHT			SIZE	THICKNESS	AREA(S.F.)			SIZE	LENGTH	EMBED.		
1	As B/H 22+40	27'		R7-202M	END CENTER LANE	24"x12"	0.080"	2.0	1	Sq. Tube	2"	13'	3'-6"	N.B.	Black Letters on White Background
2	" 22+40	27'		R3-9B	CENTER LANE ONLY	24"x36"	0.100"	6.0						N.B.	Mount Below Sign 1
3	" 22+30		27'	R7-101	NO PARKING ANY TIME	12"x18"	0.080"	1.5	1	" "	" "	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
5	" 29+65	30'		R1-1	STOP	30"x30"	0.080"	6.25						W.B.	Mount on Existing Post
6	" 29+65	30'		D3-1	HECKMAN ST.	30"x8"	0.080"	1.66						N.B./S.B.	Mount Above 5, Legend Both Sides
7	" 30+18		27'	R7-202K	BEGIN CENTER LANE ONLY	24"x12"	0.080"	2.0	1	" "	" "	13'	3'-6"	S.B.	Black Letters on White Background
8	" 30+18		27'			24"x36"	0.100"	6.0						S.B.	Mount Below Sign 7
9	" 31+60	27'			CENTER LANE ONLY	24"x36"	0.100"	6.0	1	" "	" "	11'	3'-6"	N.B.	
87	31+60	30			NO PARKING ANY TIME	12"x18"	.080"	SEE SHEET 33	1	" "	" "			S.B.	
82	22+20	30			NO PARKING ANY TIME	12"x18"	.080"	SEE SHEET 33	1	" "	" "			S.B.	
12	" 33+50		30'	R3-9B	CENTER LANE ONLY	24"x36"	0.100"	6.0	1	" "	" "	11'	3'-6"	S.B.	
13	" 33+56		34'	R5-1	DO NOT ENTER	36"x36"	0.100"	9.0	1	" "	2"	11'	3'-6"	W.B.	
14	" 33+92	29'		D1-3A	CITY CENTER 2 ← WARD LAKE 5 ← SETTLER COVE 16	96"x42"	0.125	28.0	2	" "	2 1/2"	20' 11'-6"	4'-6"	E.B.	
15	" 34+12	29'		D9-2B	H HOSPITAL	24"x24"	0.080	4.0	1	" "	2"	11'-6"	3'-6"	W.B.	Mount Below 15
						24"x6"	0.080	1.0						W.B.	Mount Below 15
						24"x6"	0.080	1.0						W.B.	Mount Below 15
16	" 34+24		34'	R6-1L	ONE WAY	36"x12"	0.100	3.0	1	" "	" "	9'	3'-6"	S.B.	Mount below Sign 13
17	" 34+24		34'	R6-1R	ONE WAY	36"x12"	0.100	3.0	1	" "	" "	9'	3'-6"	N.B.	Mount on Same Post as 16
19	" 34+44		30'	I-8	FERRY	24"x30"	0.080	5.0	1	" "	" "	10'-6"	3'-6"	S.B.	
20	" 34+44		30'	D11-1L		24"x6"	0.080	1.0						S.B.	Mount Below Sign 19
21	" 34+66	36'		R1-1	STOP	30"x30"	0.080	6.25	1	" "	" "			W.B.	Mount on Existing Post
22	" 34+66	36'		D3-1	BRYANT ST.	30"x8"	0.080	1.66						N.B./S.B.	Mount Above 21, Legend Both Sides
23	" 34+66	36'		D3-1	TONGASS AVE.	30"x8"	0.080	1.66						E.B./W.B.	Mount Above 22, Legend Both Sides
103	34+60		35'		ONE WAY			SEE SHEET 33							Mount w/sign 24
24	" 34+60		35'	R6-1R	ONE WAY	36"x12"	0.100	3.0	1	" "	" "	9'	3'-6"	S.B.	
25	" 35+38		36'	R1-1	STOP	30"x30"	0.080	6.25	1	" "	" "	11'	3'-6"	E.B.	
26	" 35+55		30'	R7-101	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	" "	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
27	" 36+37		30'	W11-8	FIRE STATION	36"x36"	0.100	9.0	1	" "	" "	13'	3'-6"	S.B.	Mount Below Symbol
						24"x18"	0.080	3.0						S.B.	Mount Below Symbol
28	" 36+80	27'		I-8	FERRY	24"x30"	0.080	5.0	1	" "	" "	10'-6"	3'-6"	N.B.	
29	" 36+80	27'		D11-1L		24"x6"	0.080	1.0						N.B.	Mount Below Sign 28
30	" 37+00		30'	R7-101	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	" "	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
31	" 37+40		30'	R3-9B	CENTER LANE ONLY	24"x36"	0.100	6.0	1	" "	" "	11'	3'-6"	S.B.	
32	" 38+30		38'	R1-1	STOP	30"x30"	0.080	6.25	1	" "	" "	10'-6"	3'-6"	E.B.	
33	" 38+78		30'	R2-1	SPEED LIMIT 25	30"x36"	0.100	7.5	1	" "	" "	11'	3'-6"	S.B.	
34	" 39+24		30'	R7-101	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	" "	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
35	" 40+77	27'		R3-9B	CENTER LANE ONLY	24"x36"	0.100	6.0	1	" "	" "	11'	3'-6"	N.B.	
36	" 41+22		30'	R7-101	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	" "	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
37	" 41+90	27'		W11-8	FIRE STATION	36"x36"	0.100	9.0	1	" "	" "	13'	3'-6"	N.B.	Mount Below Symbol
						24"x18"	0.080	3.0						N.B.	Mount Below Symbol
38	" 42+61	37'		R1-1	STOP	30"x30"	0.080	6.25						W.B.	Mount on Existing Post
39	As B/H 42+61	37'		D3-1	CARLANNA LAKE RD.	48"x8"		2.66						N.B./S.B.	Mount Above 38, Legend Both Sides

TOTAL AREA (S.F.) ON THIS SHEET 179.23

1. Sign locations are numbered in sequence and identified by a (number) on shts. 20-30. They are tabulated in the signing schedule this sht & shts. 32-35. Sign locations & post lengths are approx. only & are subject to minor field revisions. See Standard Drawing S-05.00.
2. All sign posts shall be galvanized, telescoping, & perforated square steel posts except as noted in the signing schedule. All posts shall utilize the sleeve type embedment as detailed on Standard Drawing S-30.01.
3. For any signs which require 2 posts see Standard Drawing S-00.00 for Post Spacing Details.
4. Post lengths are from the cut-off in the sleeve to the top of the post. See Standard Drawing S-05.00.
5. For the purposes of the "FACING TRAFFIC" column in the signing schedule, traffic heading towards Ward Cove is considered to be northbound (N.B.) & traffic heading toward the City Center is considered to be southbound (S.B.).
6. The existing regulatory, warning & guide signs shall be dismantled & disposed of by the contractor. *Coras directed by the engineer. The miscellaneous existing bus stop, loading zone signs shall remain.*

SIGN REMOVAL NOTES

1. Remove & dispose of existing sign & sign post. See note 6 above.
2. Sawcut sidewalk around foundation of sign post. Remove foundation post sleeve to 6" below bottom of sidewalk.
3. Replace concrete, asphalt or native material in kind.
4. See Section 615 of the Special Provisions.
5. Alternate removal methods subject to approval by Engineer.



SUGGESTED EXISTING SIGN REMOVAL DETAIL



SIGNING SCHEDULE (CONTINUED)

SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET		CODE NUMBER	LEGEND	SIGN PANEL			NO. POSTS	TYPE	POST		FACING TRAFFIC	REMARKS	
		LEFT	RIGHT			SIZE	THICKNESS	AREA(S.F.)			SIZE	LENGTH			EMBED.
40	As Bit 43+43		30'	D3-1	CARLANNA LAKE RD.	48" x 8"	0.125	2.66	1	Sq. Tube	2"	9'	3'-6"	S.B.	Legend Both Sides
42	" 44+43		30'	R3-9B	CENTER LANE ONLY	24" x 36"	0.100	6.0	1	"	"	11'	3'-6"	S.B.	
43A	" 44+80		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
44A	" 47+37		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
45	" 49+25		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
46	" 50+80		29'	D9-2L	H HOSPITAL	24" x 24"	0.080	4.0	1	"	"	11'-6"	3'-6"	S.B.	Mount Below Sign 46
						24" x 6"	0.080	1.0						S.B.	Mount Below Sign 46
47	" 51+43		27'	D9-2R	H HOSPITAL	24" x 24"	0.080	4.0	1	"	"	11'-6"	3'-6"	N.B.	Mount Below Sign 47
						24" x 6"	0.080	1.0						N.B.	Mount Below Sign 47
48	" 51+52		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
49	" 53+36		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
50	" 55+50		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
51	" 57+04		27'	R3-9B	CENTER LANE ONLY	24" x 36"	0.100	6.0	1	"	"	11'	3'-6"	N.B.	
52	" 57+62		29'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
53	" 58+12	27'		R2-1	SPEED LIMIT 25	30" x 36"	0.100	7.5	1	"	"	11'	3'-6"	N.B.	
54	" 59+08		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
55	" 59+02	4037'		R1-1	STOP	30" x 30"	0.080	6.25						W.B.	Mount on Existing Post
56	" 59+02	4037'		D3-1	THIRD AVE.	24" x 8"	0.080	1.33						N.B./S.B.	Mount Above 55, Legend Both Sides
58	" 60+44		30'	R3-9B	CENTER LANE ONLY	24" x 36"	0.100	6.0	1	"	"	11'	3'-6"	S.B.	
59	" 60+95		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
60	" 62+80		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
61	" 63+11	30'		R3-9B	CENTER LANE ONLY	24" x 36"	0.100	6.0	1	"	"	11'	3'-6"	N.B.	
62	" 63+72	37'		R1-1	STOP	30" x 30"	0.080	6.25						W.B.	Mount on Existing Post
63	" 63+72	37'		D3-1	SECOND AVE.	30" x 8"	0.080	1.66						N.B./S.B.	Mount Above 62, Legend Both Sides
65	" 64+85		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
66	" 65+57		30'	R2-1	SPEED LIMIT 25	30" x 36"	0.100	7.5	1	"	"	11'	3'-6"	S.B.	
67	" 66+13		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
68	" 66+65		30'	R3-9B	CENTER LANE ONLY	24" x 36"	0.100	6.0	1	"	"	11'	3'-6"	S.B.	
69A	" 67+47		37'	R1-1	STOP	30" x 30"	0.080	6.25	1	"	"	10'-6"	3'-6"	E.B.	
70A	" 68+19		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
71	" 70+15		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
72	" 70+84	37'		R1-1	STOP	30" x 30"	0.080	6.25						W.B.	Mount on Existing Post
73	" 70+84	37'		D3-1	MADISON AVE.	30" x 8"	0.080	1.66						N.B./S.B.	Mount Above 72, Legend Both Sides
75	74+00 71+84		3'	R3-9A	CENTER LANE ONLY	48" x 60"	0.125	20.0						S.B.	Mount on Existing Overhead Mast Arm
76	74+00 71+84		3'	R3-9A	CENTER LANE ONLY	48" x 60"	0.125	20.0						N.B.	Mount on Existing Overhead Mast Arm
77	" 72+25		30'	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	"	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
79	As Bit 73+20 74+04		30'	R2-1	SPEED LIMIT 25	30" x 36"	0.100	7.5	1	Sq. Tube	2"	11'	3'-6"	S.B.	

TOTAL AREA (S.F.) ON THIS SHEET 157.81



SIGNING SCHEDULE

SIGNING SCHEDULE (CONTINUED)

SIGN NO	STATION	OFFSET		CODE NUMBER	LEGEND	SIGN PANEL			POST		FACING TRAFFIC	REMARKS			
		LEFT	RIGHT			SIZE	THICKNESS	AREA(S.F.)	NO. POSTS	TYPE			SIZE	LENGTH	EMBED
81	73+87	30'		R2-1	SPEED LIMIT 25	30" x 36"	0.100	7.5	1	" "	"	11'	3'-6"	N.B.	
82	74+85 32+20	30'	27	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic Moved to Another Location
84	75+68	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
87	72+48 31+60	30'	27	R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic Moved to ANOTHER Location
90	80+00 79+80	3'		R3-9A	ONLY	48" x 60"	0.125	20.0						S.B.	Mount on Existing Over head Mast Arm
91	80+00 78+80	3'		R3-9A	ONLY	48" x 60"	0.125	20.0						N.B.	Mount on Existing Overhead Mast Arm
92	79+06	36'		R1-1	STOP	30" x 30"	0.080	6.25						W.B.	Mount on Existing Post NEW
93	79+06	36'		D3-1	ADAMS ST.	24" x 8"	0.080	1.33						N.B./S.B.	Mount Above 92, Legend Both Sides
97	79+87	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
99	81+15	30'		108	NO 2 HR. PARKING ANY TIME 8:30AM-5:30PM	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	N.B.	Mount @ 45° to Traffic
100	82+16	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
102	82+17	36'		D3-1	WASHINGTON ST.	36" x 8"	0.080	2.0						N.B./S.B.	ON EXISTING POST Mount Above 101, Legend Both Sides
103	34+60 82+58	36'	36'	R6-1L	ONE WAY	36" x 12"	0.100	3.0	1	" "	"	9'	3'-6"	S.B.	Mount on Post 24
104	82+58	36'		R6-1R	ONE WAY	36" x 12"	0.100	3.0						N.B.	Mount on same Post as Sign 103 NEW
106	83+20	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
108	84+22	24'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
109	84+36	36'		R1-1	STOP	30" x 30"	0.080	6.25						W.B.	Mount on Existing Post NEW
110	84+36	36'		D3-1	AUSTIN ST.	24" x 8"	0.080	1.33						N.B./S.B.	Mount Above 109, Legend Both Sides
112	85+30	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
114	86+04	30'		R7-101	NO PARKING ANY TIME	12" x 18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
115	86+50	30'		R2-1	SPEED LIMIT 25	30" x 36"	0.100	7.5	1	" "	"	11'	3'-6"	N.B.	
116	87+35	30'		R7-202M	END	24" x 12"	0.080	2.0	1	" "	"	13'	3'-6"	S.B.	Black Letters on White Background
117	87+35	30'		R3-9B	CENTER LANE	24" x 36"	0.010	6.0						S.B.	Mount Below Sign 116
94	79+60	36'		R1-1	STOP	30" x 30"	0.080	6.25	1	" "	"	9'-6"	3'-6"	W.B.	
95	79+60	36'		R6-1L	ONE WAY	36" x 12"	0.100	3.0	1	" "	"			N.B.	Mount above Sign 94
96	79+60	36'		R6-1R	ONE WAY	36" x 12"	0.100	3.0	1	" "	"			S.B.	
TOTAL AREA (S.F.) ON THIS SHEET						114.91									

Out of numerical order



SIGNING SCHEDULE

SIGNING SCHEDULE (CONTINUED)

SIGN NO	STATION	OFFSET		CODE NUMBER	LEGEND	SIGN PANEL			NO. POSTS	TYPE	POST			FACING TRAFFIC	REMARKS
		LEFT	RIGHT			SIZE	THICKNESS	AREA(S.F.)			SIZE	LENGTH	EMBED		
118	As Bit 87+40	30'		R7-202K	BEGIN CENTER LANE	24"x12"	0.080	2.0	1	Sq. Tube	2"	13'	3'-6"	N.B.	Black Letters on White Background
119	" 87+40	30'		R3-9B	ONLY	24"x36"	0.100	6.0						N.B.	Mount Below Sign 118
120	" 87+77	36'		R1-1	STOP	30"x30"	0.080	6.25						W.B.	Mount on Existing Post
121	" 87+77	36'		D3-1	WHITECLIFF ST.	36"x8"	0.080	3.0						NB/S.B.	Mount Above 120, Legend Both Sides
122	" 88+09		23'	R7-101	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic
123	" 89+96		23'	R7-101R	NO PARKING ANY TIME	12"x18"	0.080	1.5	1	" "	"	9'-6"	3'-6"	S.B.	Mount @ 45° to Traffic DELETED
124	" 90+66	36'		R1-1	STOP	30"x30"	0.080	6.25						W.B.	Mount on Existing Post
125	" 90+66	36'		D3-1	NADEAU ST.	30"x8"	0.080	1.66						NB/S.B.	Mount Above 124, Legend Both Sides
126	" 91+08	36'		R6-1R	ONE WAY	36"x12"	0.080	3.0	1	" "	"	9'	3'-6"	S.B.	Below sign 124
127	90+66 91+08	36'		R6-1L	ONE WAY	36"x12"	0.080	3.0						N.B.	Mount on same post as 126
130	" 95+41	36'		D3-1	FIRST AVE	24"x8"	0.080	1.33						NB/SB	Mount on exist. post as 126
131	" 95+79	36'		R6-1L	ONE WAY	36"x12"	0.080	3.0	1	" "	"	9'	3'-6"	S.B.	Mount Below Sign 130
132	" 95+79	36'		R6-1R	ONE WAY	36"x12"	0.080	3.0						NB	Mount on same post as 131
133	" 96+22		33'	R2-1	SPEED LIMIT 25	30"x36"	0.100	7.5	1	" "	"	11'	3'-6"	S.B.	BELOW SIGN 130
146	" 112+24		27'	W11-2A	Ped. X-ing	36"x36"	0.100	9.0	1	" "	2"	13'	3'-6"	S.B.	Mount on exist. post
147	" 115+00		27'	W11-2A	Ped. X-ing	36"x36"	0.100	9.0	1	" "	2"	13'	3'-6"	S.B.	Mount below symbol
148	" 118+33		32'	R7-101L	NO PARKING ANYTIME	12"x18"	0.080	1.5	1	" "	2"	9'-6"	3'-6"	S.B.	Mount @ 45° to traffic
150	" 119+35	43'		R1-1	STOP	30"x30"	0.080	6.25						W.B.	Mount on exist. post
151	" 119+35	43'		D3-1	WATER ST.	24"x8"	0.080	1.33						NB/SB	Mount above 150, legend both sides
153	" 120+71		30'	R7-101	NO PARKING ANYTIME	12"x18"	0.080	1.5	1	" "	2"	9'-6"	3'-6"	S.B.	Mount @ 45° to traffic
154	" 121+70		30'	R7-101	"	12"x18"	0.080	1.5	1	" "	2"	9'-6"	3'-6"	S.B.	" " " "
155	" 122+80	42'		R1-1	STOP	30"x30"	0.080	6.25						W.B.	Mount on exist. post
156	" 122+80	42'		D3-1	SCHOENBAR RD	36"x8"	0.080	2.0						NB/SB	Mount above 155, legend both sides
157	" 123+42		27'	R7-101	NO PARKING ANYTIME	12"x18"	0.080	1.5	1	" "	"	"	"	S.B.	Mount @ 45° to Traffic
438	As Bit 45+58		30'	I-3	Hoadly Creek	44"x36"	.125	11.0	1	" "	2"	10'-9"	3'-6"	S.B.	White legend on green background
439	" " 46+17		27'	I-3	"	44"x36"	.125	11.0	1	" "	"	10'-9"	"	N.B.	" " " "
441A	" " 47+37		29'	R7-101	NO PARKING ANYTIME	12"x18"	0.080	1.5	1	" "	"	9'-6"	"	S.B.	Mount @ 45° to traffic
448	"A" 0+30		34'	D9-6	"	24"x24"	"	4.0	1	" "	"	9'-9"	"	E.B.	White legend on blue background
449	"A" 0+86		37'	D9-6	"	"	"	"	1	" "	"	"	"	W.B.	" " " " "
69B	As Bit 67+82		29'	D9-6	"	"	"	"	1	" "	"	"	"	E.B.	" " " " "
70B	" " 68+10		53'	D9-6	"	"	"	"	1	" "	"	"	"	S.B.	" " " " "

TOTAL AREA(S.F.) ON THIS SHEET = 134.32
 PROJECT TOTAL STANDARD SIGNS(S.F.) = 586.27

