

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

KETCHIKAN, ALASKA
**TONGASS AVENUE
CARLANNA LAKE ROAD
SIGNALIZATION**

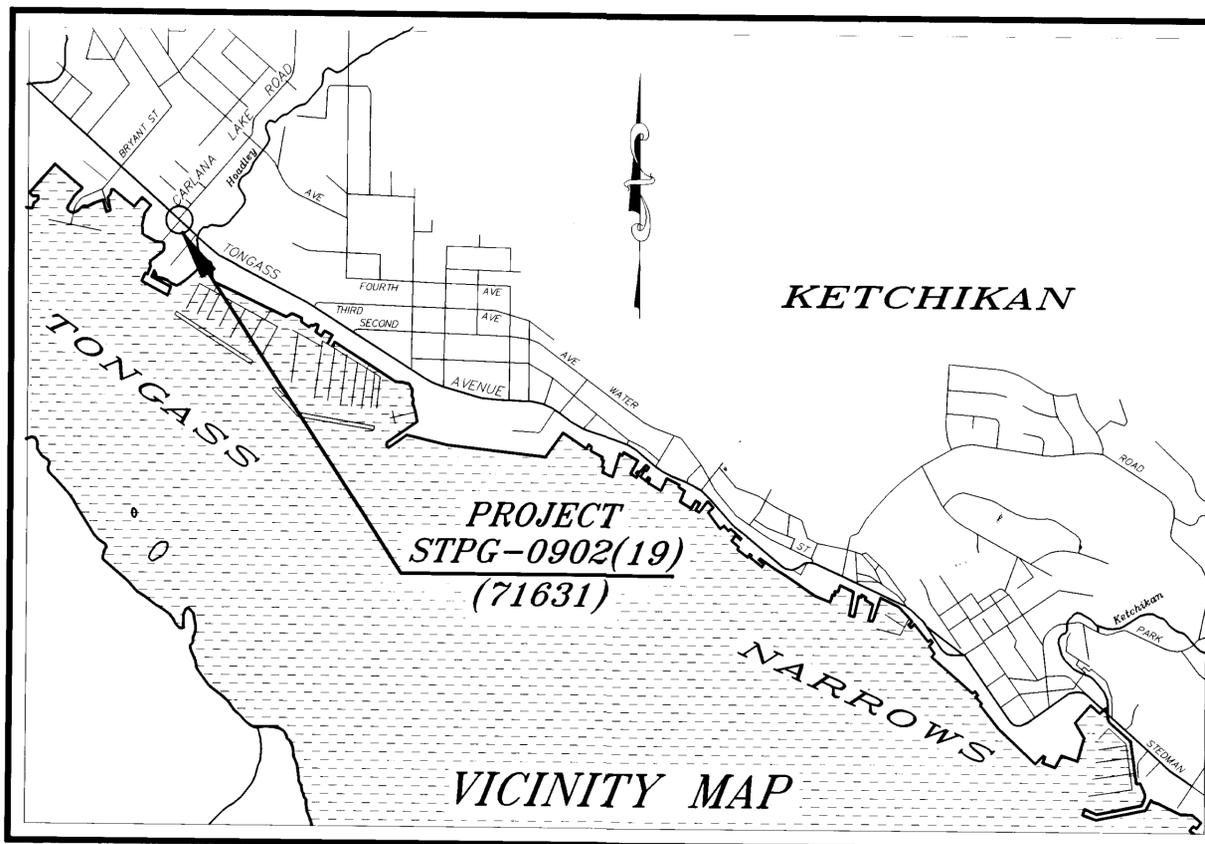
<i>INDEX OF SHEETS</i>	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES / MISC. DETAILS
3	SUMMARY TABLES
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11-12	TRAFFIC CONTROL PLAN
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THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
A-1, C-01.03, C-02.01, D-23.00, D-24.00, F-01.01, F-03.01, I-20.11, L-03.02,
L-20.01, L-23.01, S-00.00, S-05.00, S-20.00, S-21.02, S-22.00, S-30.01,
T-20.00, T-21.01, T-22.02, T-30.00, T-31.00, T-33.01, T-34.01, T-52.01

DESIGN DESIGNATION

ADT 1995.....	19770
ADT 2005.....	24100
DHV 12% (2005).....	2410
% T.....	1.8%
V.....	25 MPH
E.A.L.'S.....	650,000

PROJECT NO. STPG-0902(19)/71631



"AS-BUILT" PLANS
Contractor : CAVE ELECTRIC
Project Engr: Allen K. Shepard
Constructed : April- June 1996

AS-BUILT
BY: KK DATE: 1/97

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

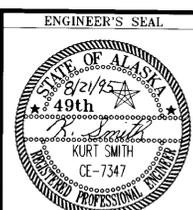
APPROVED Date 8/22/95
Regional Preconstruction Engineer

APPROVED Date 8/22/95
For Director, S.E. Region Design & Construction

PROJECT NUMBER:
STPG-0902(19)
(71631)

DATE:
1995

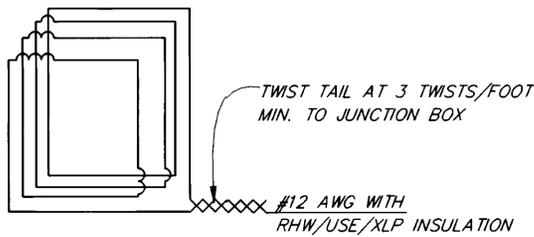
SHEET **1** OF **16**



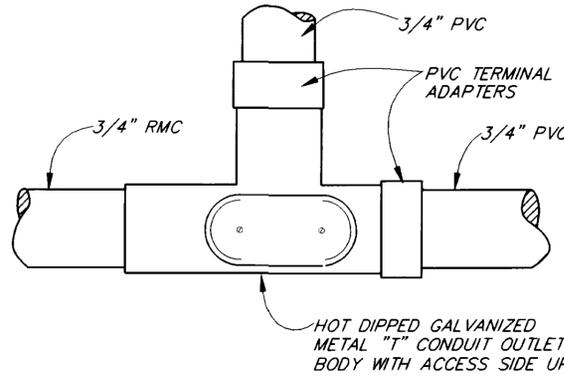
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ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
120(1)	DBE ADJUSTMENT	CONT. SUM	ALL REQUIRED
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	250.9 183
607(4)	RECONSTRUCTED FENCE	LINEAR FOOT	61 104
607(5A)	36 FOOT DRIVE GATE	EACH	1
607(5B)	40 FOOT DRIVE GATE	EACH	1
608(1)	CONCRETE SIDEWALK	SQUARE YARD	250.9 183
615(1)	STANDARD SIGNS	SQUARE FT.	108.5 97.25
640(1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(3)	EROSION AND POLLUTION CONTROL	CONT. SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNING	LUMP SUM	ALL REQUIRED
643(4)	CONSTRUCTION SIGN	EA./PER DAY	366 500
643(5)	TYPE II BARRICADE	EA./PER DAY	111 300
643(7)	TRAFFIC CONE	EA./PER DAY	1775 1500
643(8)	DRUM	EA./PER DAY	428 150
643(15)	FLAGGING	HOUR	631.0 200
643(25)	HIGH LEVEL WARNING DEVICE	EA./PER DAY	0.0 50
660(1)	TRAFFIC SIGNAL SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660(12)	TRAFFIC SIGNAL TRAINING	LUMP SUM	ALL REQUIRED
661(1)	LOAD CENTER, TYPE I	EACH	1
670(6)	PREFORMED PAVEMENT MARKINGS C.D. #1	LUMP SUM	ALL REQUIRED
670(9)	PREFORMED PAVEMENT MARKINGS C.D. #1	LUMP SUM	ALL REQUIRED



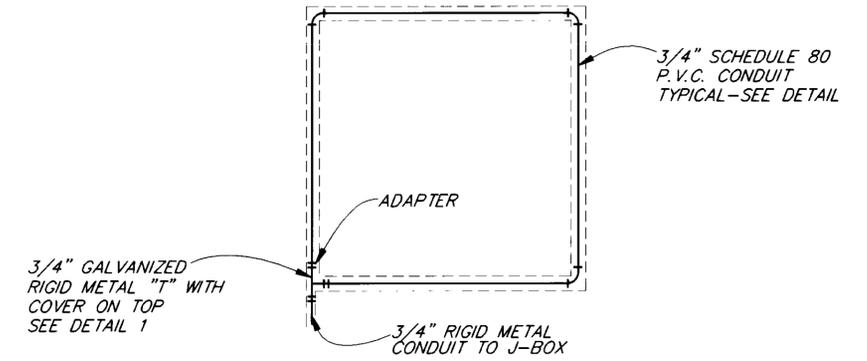
LOOP WIRING DETAIL



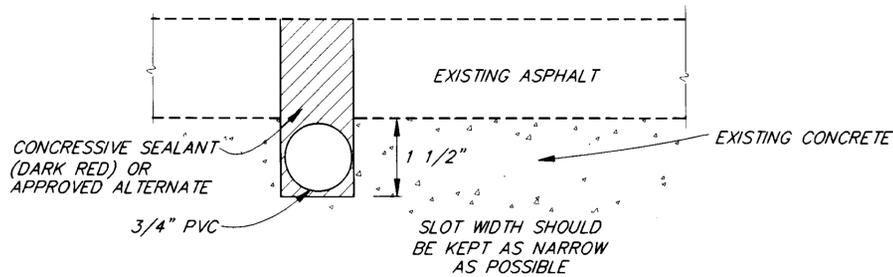
DETAIL 1

GENERAL NOTES

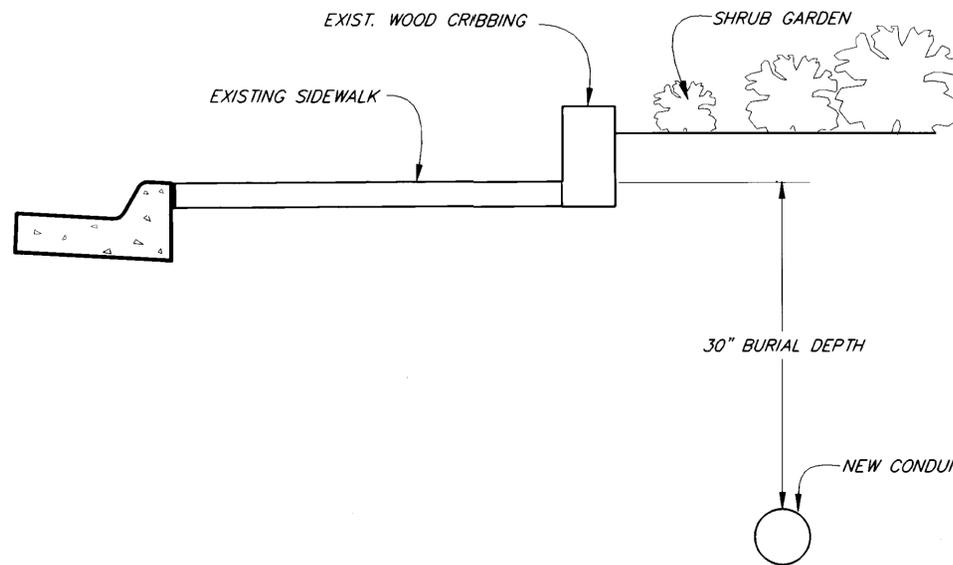
1. ALL NEW CONDUIT EXCEPT FOR THE LOOP DETECTORS SHALL BE RIGID METAL (RMC).
2. SIGNAL CABINET SHALL COME WITH AN INTERSECTION DISPLAY PANEL MEETING THE REQUIREMENTS OF SECTION 660-3.05 2B, OF THE STANDARD SPECIFICATIONS.
3. SIGNAL SYSTEM SHALL HAVE A HAYES COMPATIBLE MODEM.



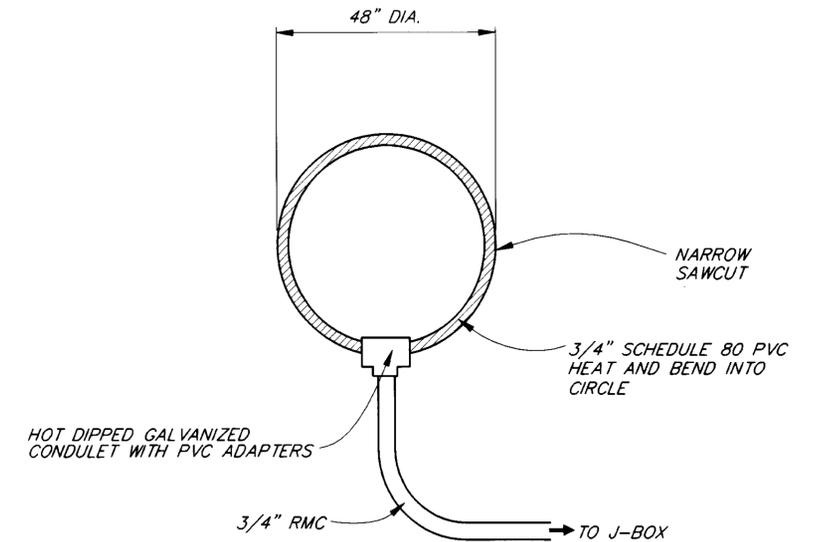
TYPICAL 6 FT. X 6 FT. LOOP DETECTOR DETAIL



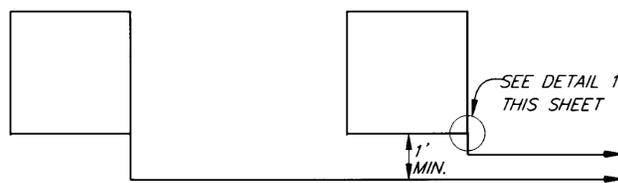
LOOP CONDUIT INSTALLATION DETAIL



SHRUB GARDEN BURIAL DETAIL



BICYCLE LOOP DETAILS



TYPICAL PLAN VIEW OF MULTIPLE LOOP INSTALLATION

AS-BUILT

BY: *KK* DATE: *1/97*

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	DATE:	DESCRIPTION OF CHANGE:
P: \KTN\71631\DR\EST 1=1		
BY:		

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

KETCHIKAN
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19)/71631
ESTIMATE OF QUANTITIES/MISC. DETAILS

DESIGNED BY: <i>K. MATTSON</i>	PROJECT NO. 71631
DRAWN BY: <i>C. ANDERSON</i>	DATE: 1995
CHECKED BY: <i>K. SMITH</i>	SHEET 2 OF 16



SIGNAL HEAD SUMMARY TABLE

SIGNAL HEAD NUMBER	POLE	PHASE	INDICATION	LENS SIZE	MOUNTING TYPE	FACING*	REMARKS
11	5	1	R-Y-G	12	PLUMBIZER	EB	
12	5	1	R-Y-G	12	PLUMBIZER	EB	
21	3	2	R-Y-G	12	S-2	SB	
31	2	3	PED. SYMBOL		SW-1	WB	
32	1	3	PED. SYMBOL		SW-2	EB	
41	2	4	R-RY-RG	12	PLUMBIZER	WB	
42	2	4	R-RY-RG	12	S-1	WB	
51	3	2 & 5	R-LY-Y-LG-G	12	PLUMBIZER	SB	"DOGHOUSE" CONFIG.
61	1	6	R-Y-G	12	PLUMBIZER	NB	
62	1	6	R-Y-G	12	S-1	NB	
63	1	6	PED. SYMBOL		SW-2	NB	
64	4	6	PED. SYMBOL		T-1	SB	
81	3	8	R-Y-G-LG	12	S-2	WB	
82	2	8	R-Y-G-LG	12	PLUMBIZER	WB	

* NOTE: FOR THIS TABLE, TONGASS AVE. IS CONSIDERED AS ORIENTED NORTHBOUND/SOUTHBOUND

DETECTOR SUMMARY

DET NUMBER	AMPLIFIER		390 CJ CONTROLLER		FUNCTION	REMARKS
	AMP. NO.	CHAN. NO.	INPUT	PHASE		
111	2	4	VEH 1	1	PRESENCE	DELAYED
121	2	4	VEH 1	1	PRESENCE	DELAYED
221	1	1	AUX 1	2	ADVANCE	EXTENDED
222	1	3	VEH 2	2	PRESENCE	
223	1	3	VEH 2	2	PRESENCE	
224	1	3	VEH 2	2	PRESENCE	
	1	2	AUX 2	NONE	COUNT	
225	1	3	VEH 2	2	PRESENCE	
226	1	3	VEH 2	2	PRESENCE	
421	1	4	VEH 4	4	QUEUE	DELAYED
	1	4	AUX 4	NONE	COUNT	
511	2	1	VEH 5	5/2	PRESENCE	DELAYED, SEE NOTE 7
512	2	1	VEH 5	5/2	PRESENCE	DELAYED, SEE NOTE 7
513	2	1	VEH 5	5/2	PRESENCE	DELAYED, SEE NOTE 7
	2	2	AUX 5	NONE	COUNT	
514	2	3	VEH 5	5/2	PRESENCE	BIKE LOOP, DELAYED, NOTE 7
515	2	1	VEH 5	5/2	PRESENCE	DELAYED, SEE NOTE 7
621	3	3	AUX 3	6	ADVANCE	EXTENDED
622	3	1	VEH 6	6	PRESENCE	
623	3	1	VEH 6	6	PRESENCE	
624	3	1	VEH 6	6	PRESENCE	
	3	2	AUX 6	NONE	COUNT	
625	3	1	VEH 6	6	PRESENCE	
626	3	1	VEH 6	6	PRESENCE	
611	4	1	VEH 7	6	PRESENCE	DELAYED
	4	2	AUX 7	NONE	COUNT	
612	4	3	VEH 7	6	PRESENCE	BIKE LOOP, DELAYED
613	4	1	VEH 7	6	PRESENCE	DELAYED
811	5	1	VEH 8	8	PRESENCE	
812	5	1	VEH 8	8	PRESENCE	
813	5	1	VEH 8	8	PRESENCE	
	5	2	AUX 8	NONE	COUNT	
814	5	4	VEH 3	8	PRESENCE	DELAYED
815	5	3	VEH 3	8	PRESENCE	BIKE LOOP, DELAYED

NOTES:

- ALL LOOPS CONNECTED TO THE SAME AMPLIFIER CHANNEL SHALL BE CONNECTED IN SERIES.
- DELAY AND EXTENSION TIMING SHALL BE SET IN THE CONTROLLER INSTEAD OF THE AMPLIFIERS.
- LOOP LEAD-INS SHALL BE BROUGHT BACK TO THE CONTROLLER CABINET INDIVIDUALLY.
- ALL LOOP CONNECTIONS SHALL BE MADE ON THE TERMINAL STRIPS IN THE CONTROLLER CABINET.
- AS SHOWN IN THE SUMMARY, WHEN A LOOP IS CONNECTED TO MORE THAN ONE AMPLIFIER CHANNEL, ALL OF THOSE CHANNELS SHALL BE ON THE SAME AMPLIFIER.
- ALL LOOPS SHALL BE CENTERED LATERALLY IN THEIR LANES.
- LOOPS 511-515 SHALL CALL THE THROUGH PHASE (PHASE 2) WHILE THE THROUGH PHASE IS GREEN AND THE LEFT TURN ARROW IS YELLOW OR RED. THE LOOPS SHALL CALL THE LEFT TURN (PHASE 5) AT ALL OTHER TIMES.
- ALL LOOPS SHALL HAVE FOUR TURNS OF WIRE.

J-BOX SUMMARY

NUMBER	STATION	OFFSET	TYPE	REMARKS
1	42+36	31' Lt.	III	BEHIND SIDEWALK
2	42+68	67' Lt.	I	BEHIND SIDEWALK
3	43+69	24' Lt.	II	SET FLUSH IN SIDEWALK
4	45+10	28' Lt.	I	SET FLUSH IN SIDEWALK
5	41+00	31' Lt.	I	BEHIND SIDEWALK
6	42+57	31' Rt.	II	BEHIND SIDEWALK
7	43+32	31' Rt.	I	BESIDE POLE #3
L1	42+40	35' Lt.	I	IN FRONT OF LOAD CENTER
L2	42+53	31' Rt.	I	BESIDE J-BOX 6
L3	43+32	34' Rt.	I	BEHIND J-BOX 7

**CONCRETE SIDEWALK 608(1)
REMOVAL OF SIDEWALK 202(3)**

BEGIN	END	WIDTH	AREA	REMARKS
40+06 RT.	40+24 RT.	7.5	16.00 S.Y.	DETAIL SHEET 9
40+24 RT.	40+54 RT.	7.5	26.67 S.Y.	DETAIL SHEET 9
40+54 RT.	40+62 RT.	7.5	7.11 S.Y.	DETAIL SHEET 9
42+45 RT.	42+66 RT.	7.5	18.67 S.Y.	DETAIL 3 SHEET 8
42+47 LT.	42+67 LT.	5.5	16.00 S.Y.	DETAIL 1 SHEET 8
43+30 LT.	43+50 LT.	5.5	16.00 S.Y.	DETAIL 2 SHEET 8
43+36 RT.	43+54 RT.	7.5	16.00 S.Y.	DETAIL 4 SHEET 8
43+50 LT.	45+00 LT.	4	66.67 S.Y.	DETAIL 2 SHEET 8

PEDESTRIAN PUSH BUTTONS

PED BUTTON #	POLE NO.	STREET CROSSING
1	1	CARLANNA
1A	1	TONGASS
2	2	TONGASS
4	4	CARLANNA

POLE SUMMARY

"AS-BUILT" STATION	OFFSET FEET	POLE NO.	SPECIAL FEATURES	MAST ARM LENGTH	LUMINAIRE MAST ARM	REMARKS
42+43	29' LT	1	STANDARD W/ LUMINAIRES	27	15	SEE DETAILS SHEET 6 (ON CARLANNA)
42+63	31' RT.	2	STANDARD	32	-	SEE DETAILS SHEET 7
43+38	31' RT.	3	STANDARD W/ LUMINAIRE	28	15	SEE DETAILS SHEET 7
43+47	29' LT	4	SPECIAL PEDESTRIAN	-	-	SEE DETAILS SHEET 6 & 13
43+69	29' LT	5	STANDARD	45	-	SEE DETAILS SHEET 6

AS-BUILT

BY: KK DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	DATE:	DESCRIPTION OF CHANGE:
P: \KTN\71631\DR\SUM		PLOT.PCP(1) PLOTH.PCP(2)

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

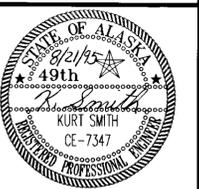
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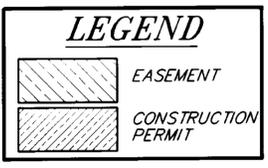
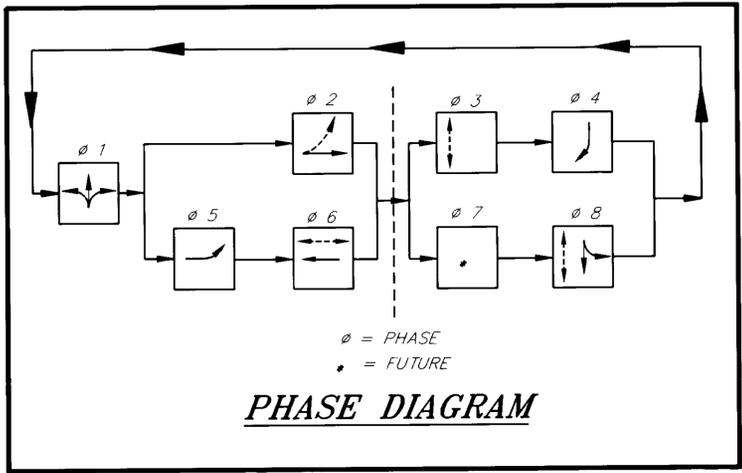
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19)/71631
SUMMARY TABLES

ALASKA

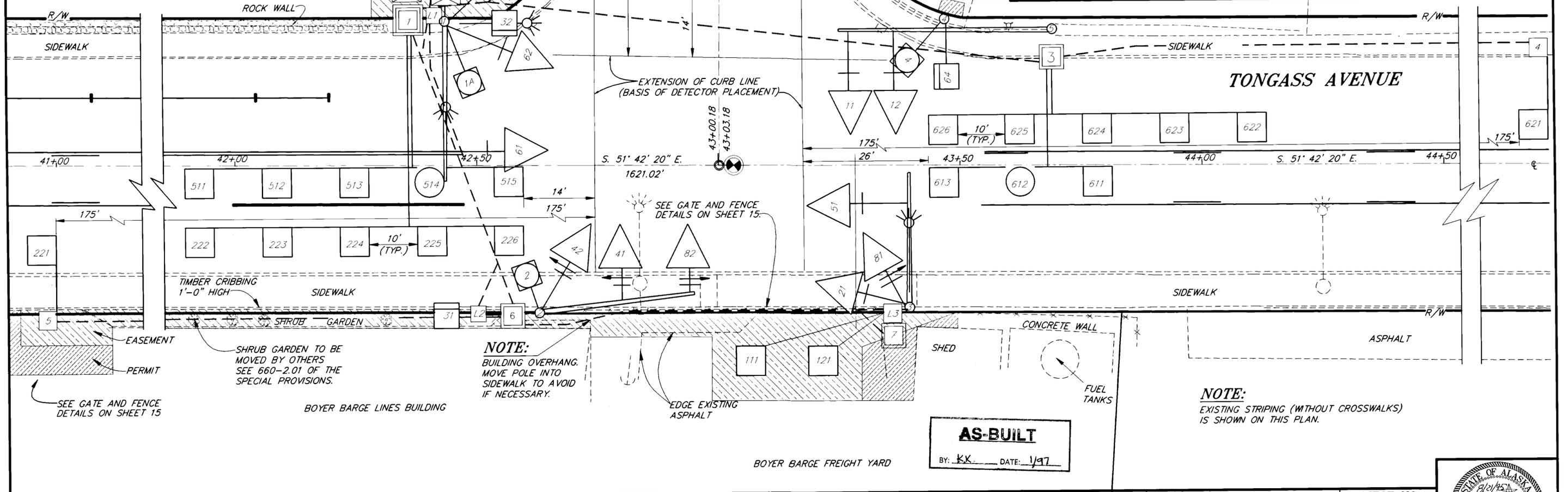
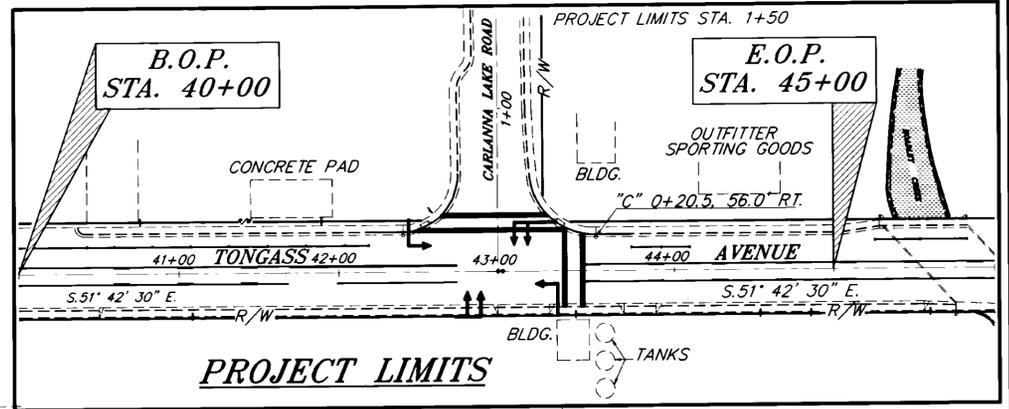
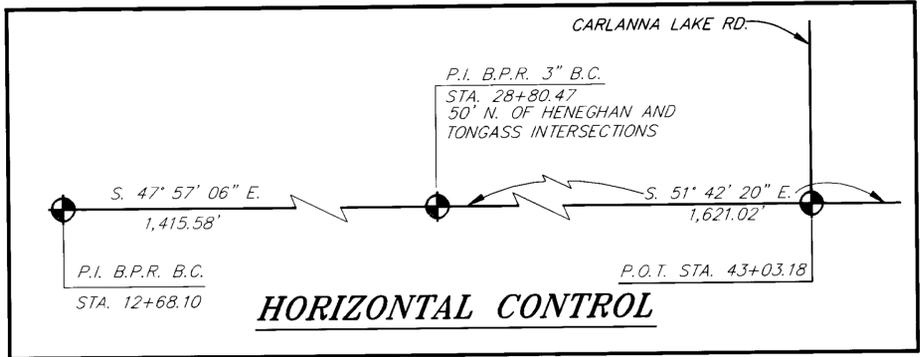
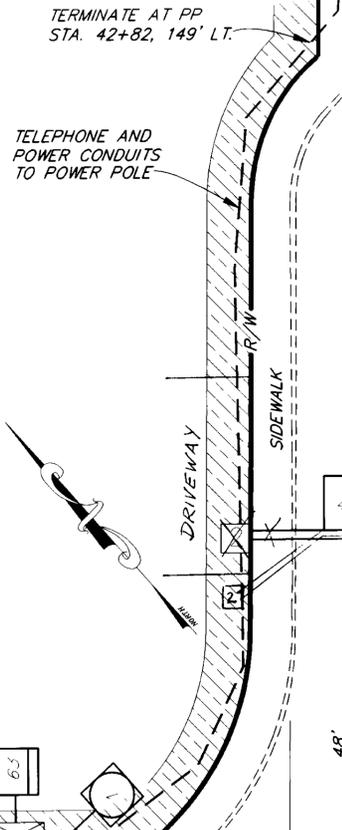
DESIGNED BY:
K. MATTSO
DRAWN BY:
K. MATTSO
CHECKED BY:
K. SMITH

PROJECT NO.
71631
DATE:
1995
SHEET 3 OF 16





SEE CABINET AND LOAD CENTER DETAILS AND LOCATIONS ON SHEET 14.



PATH: P:\KTN\71631\DR\SIGNAL2 PLOT\PCP(10) PLOT\PCP(20)

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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KETCHIKAN
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
ALASKA
SIGNAL LAYOUT

DESIGNED BY: K. MATTSON
DRAWN BY: K. MATTSON/C. ANDERSON
CHECKED BY: K. SMITH

PROJECT NO. 71631
DATE: 1995
SHEET 4 OF 16



NOTE:

A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED IN ALL CONDUIT AND ATTACHED TO POLES, CONDUIT AND BUSHINGS, ETC.

LEGEND

- = TYPE I J-BOX
- ▣ = TYPE II J-BOX
- ▤ = TYPE III J-BOX
- ⊙ = RIGID METAL CONDUIT X"=DIAMETER IN INCHES
- ⊗ = OPTICOM DETECTOR
- ⊠ = LOOP DETECTOR
- = BICYCLE LOOP DETECTOR

CONDUCTOR LEGEND

LOW VOLTAGE SIGNAL CONDUCTOR

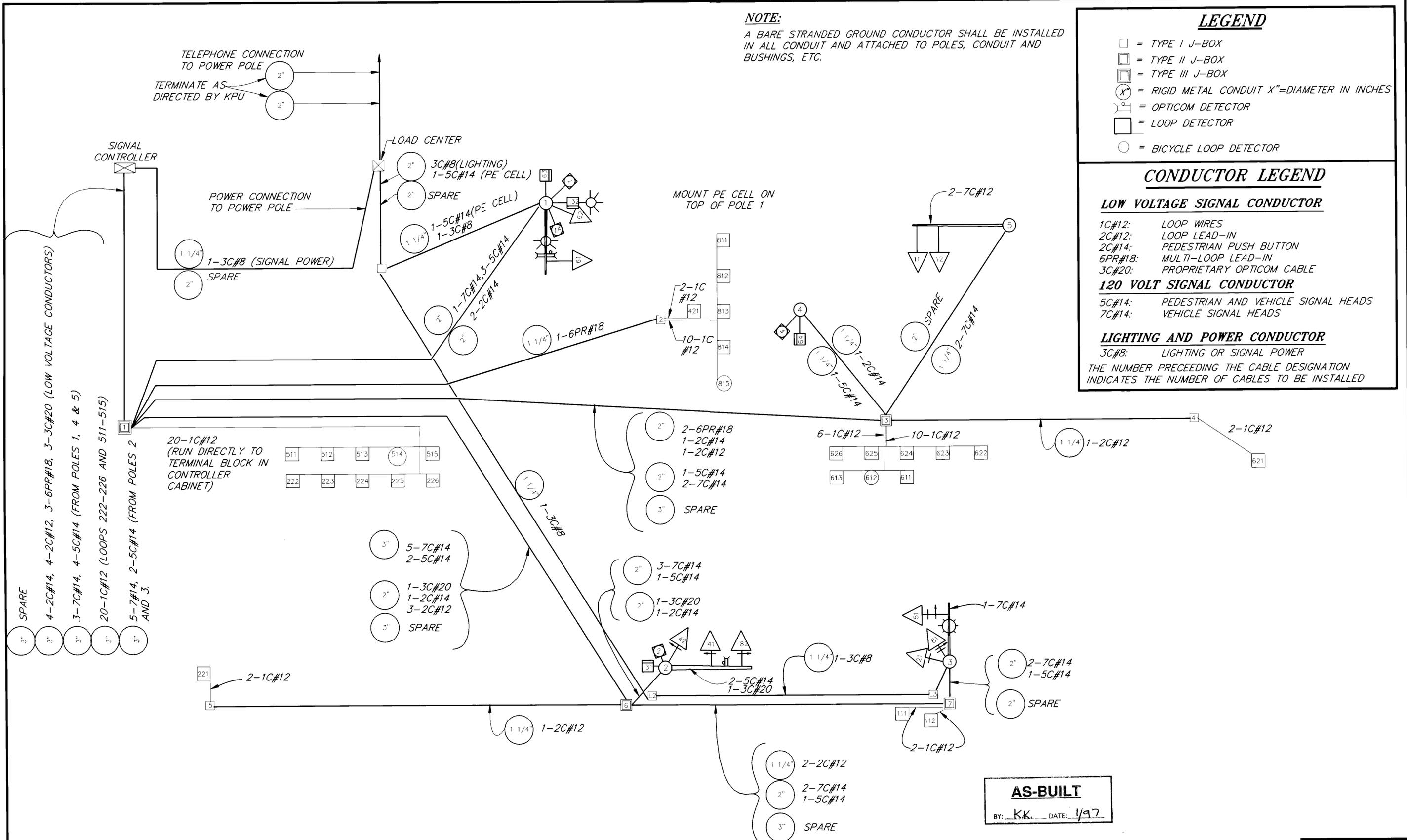
- 1C#12: LOOP WIRES
- 2C#12: LOOP LEAD-IN
- 2C#14: PEDESTRIAN PUSH BUTTON
- 6PR#18: MULTI-LOOP LEAD-IN
- 3C#20: PROPRIETARY OPTICOM CABLE

120 VOLT SIGNAL CONDUCTOR

- 5C#14: PEDESTRIAN AND VEHICLE SIGNAL HEADS
- 7C#14: VEHICLE SIGNAL HEADS

LIGHTING AND POWER CONDUCTOR

- 3C#8: LIGHTING OR SIGNAL POWER
- THE NUMBER PRECEEDING THE CABLE DESIGNATION INDICATES THE NUMBER OF CABLES TO BE INSTALLED



AS-BUILT
BY: KK DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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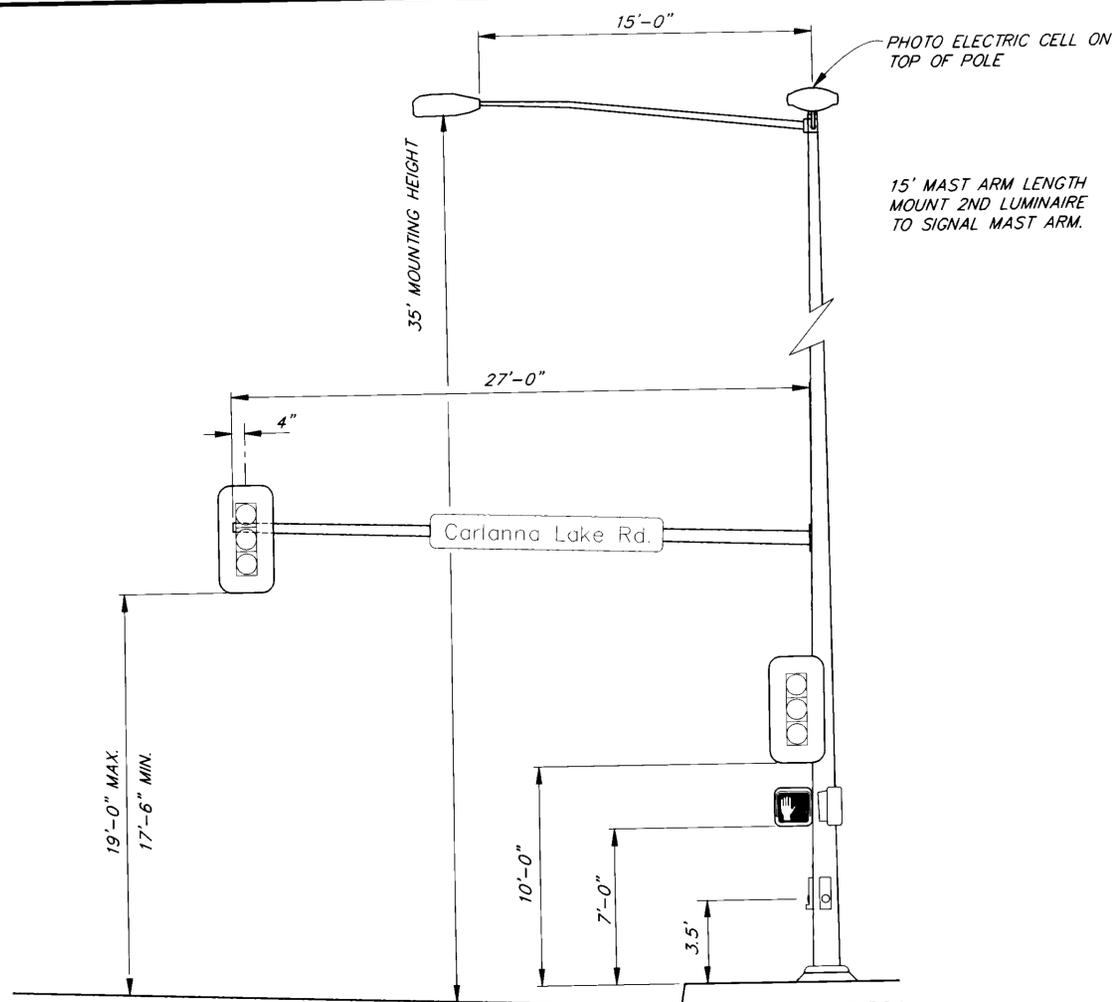
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KETCHIKAN
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
WIRING SCHEMATIC

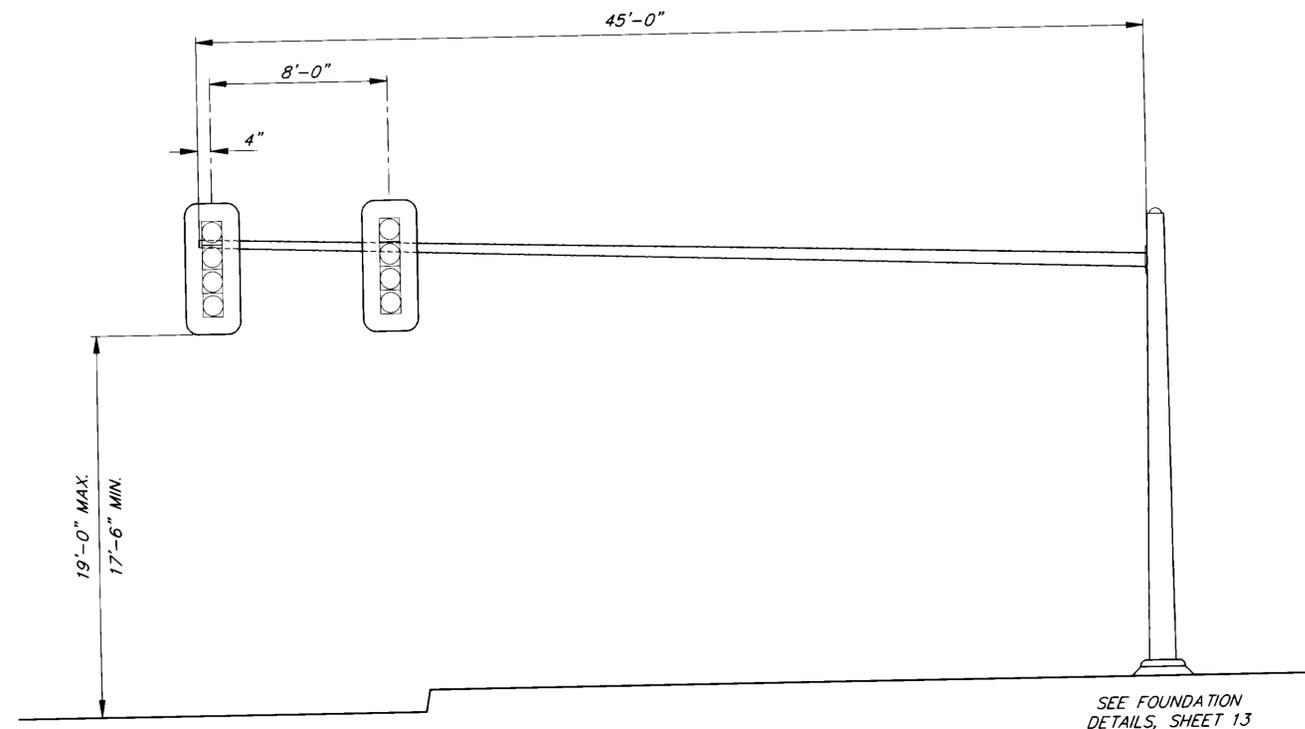
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DESIGNED BY:
K. SMITH/K. MATTSON
DRAWN BY:
K. MATTSON/C. ANDERSON
CHECKED BY:
K. SMITH

71631
71631
DATE:
1995
SHEET 5 OF 16

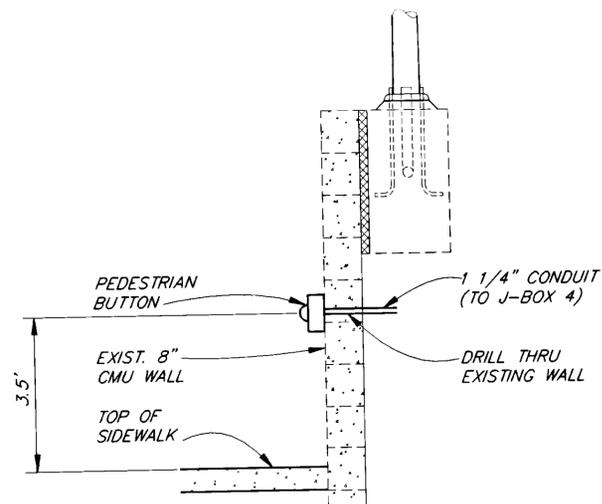




SEE FOUNDATION
DETAIL, SHEET 13
SIGNAL POLE NO. 1 DETAIL

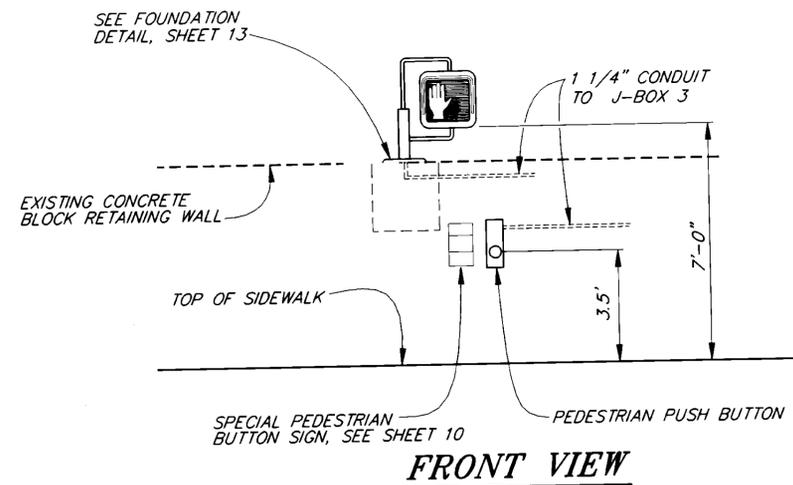


SEE FOUNDATION
DETAILS, SHEET 13
SIGNAL POLE NO. 5 DETAIL



SIDE VIEW

SIGNAL POLE 4 AND PED. BUTTON DETAIL



FRONT VIEW

AS-BUILT
BY: K.K. DATE: 1/97

RECORD OF REVISIONS		
PATH:	P:\KIN\71631\DR\POLE145_PLO11.PCP(4)_PLO11.PCP(8)	
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KETCHIKAN

TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
POLE DETAILS

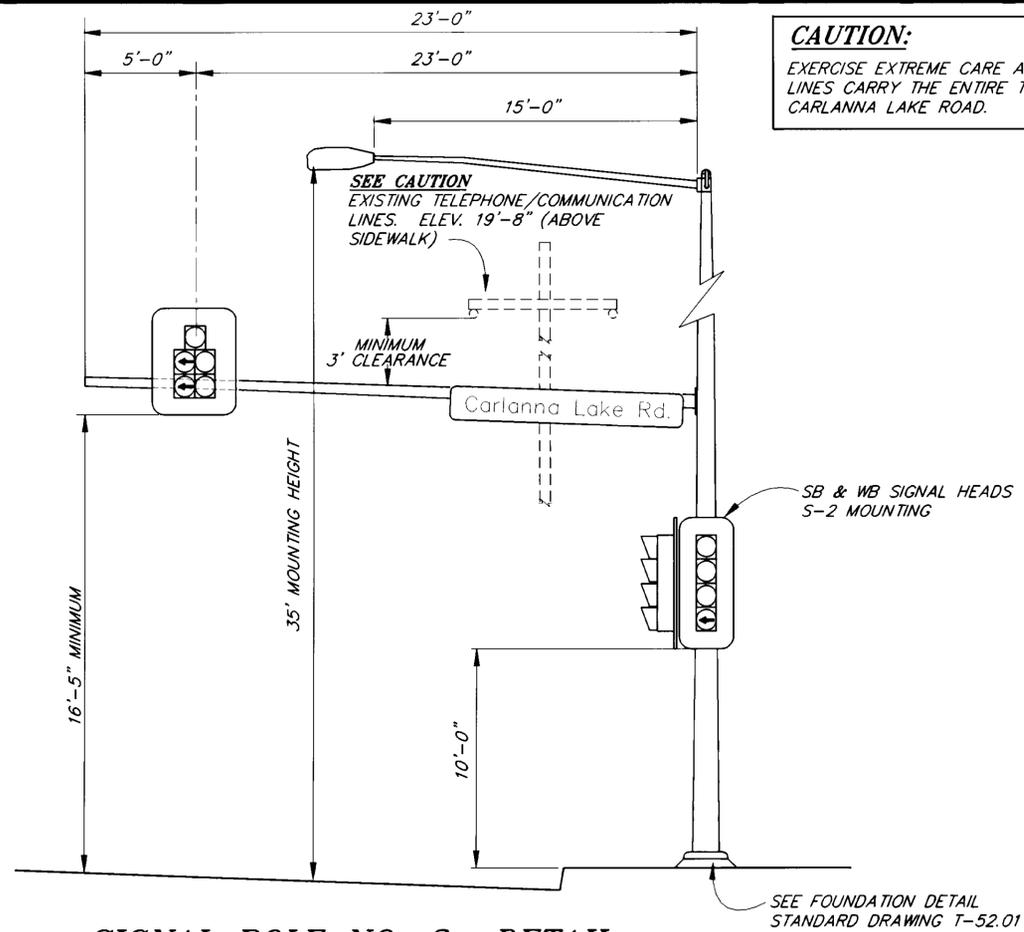
ALASKA

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CHECKED BY: K. SMITH

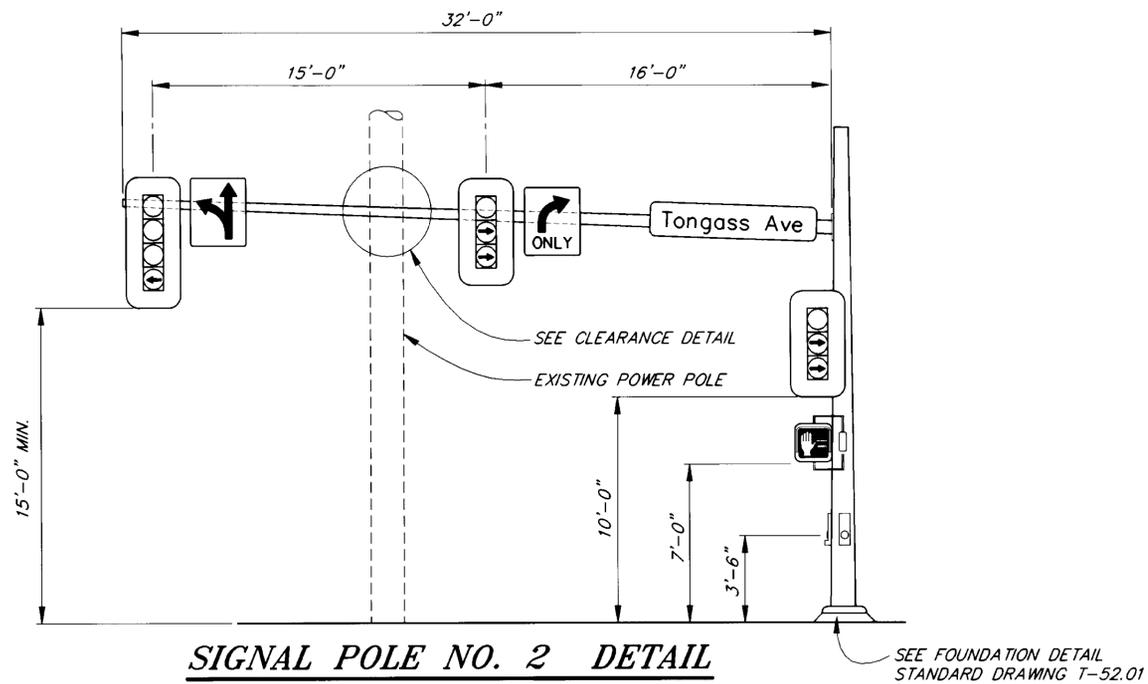
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DATE: 1995
SHEET 6 OF 16

ENGINEER'S SEAL

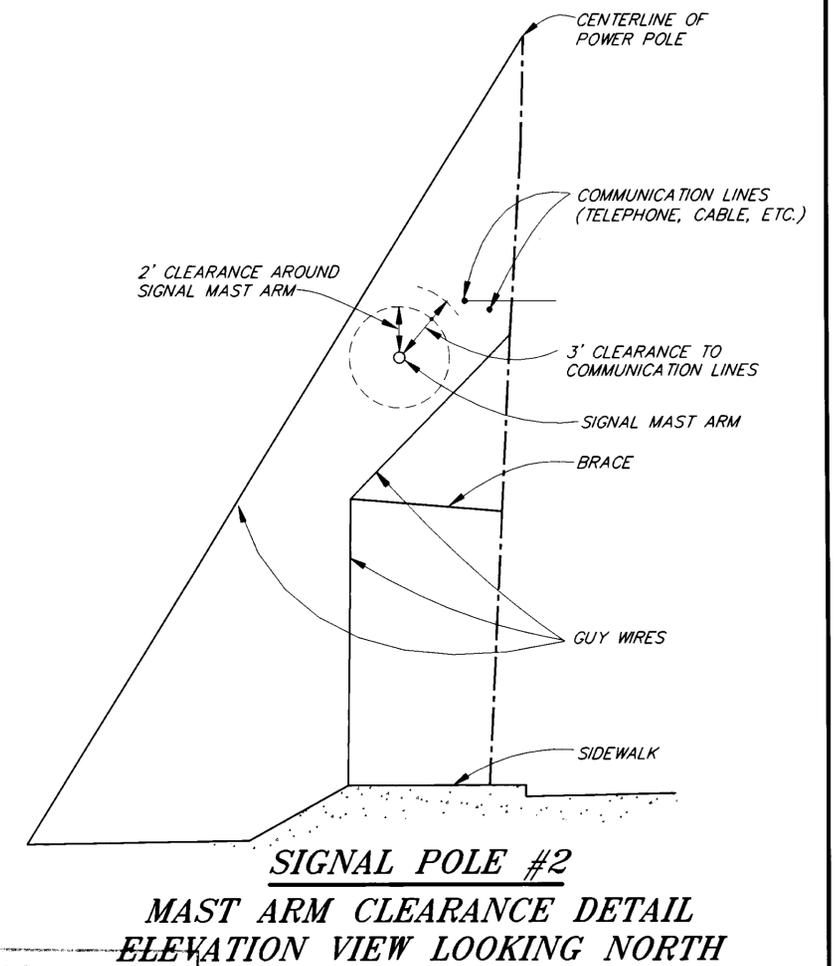




SIGNAL POLE NO. 3 DETAIL

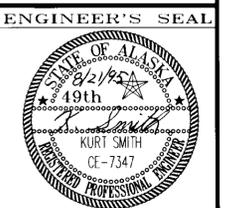


SIGNAL POLE NO. 2 DETAIL



AS-BUILT
BY: K.K. DATE: 1/97

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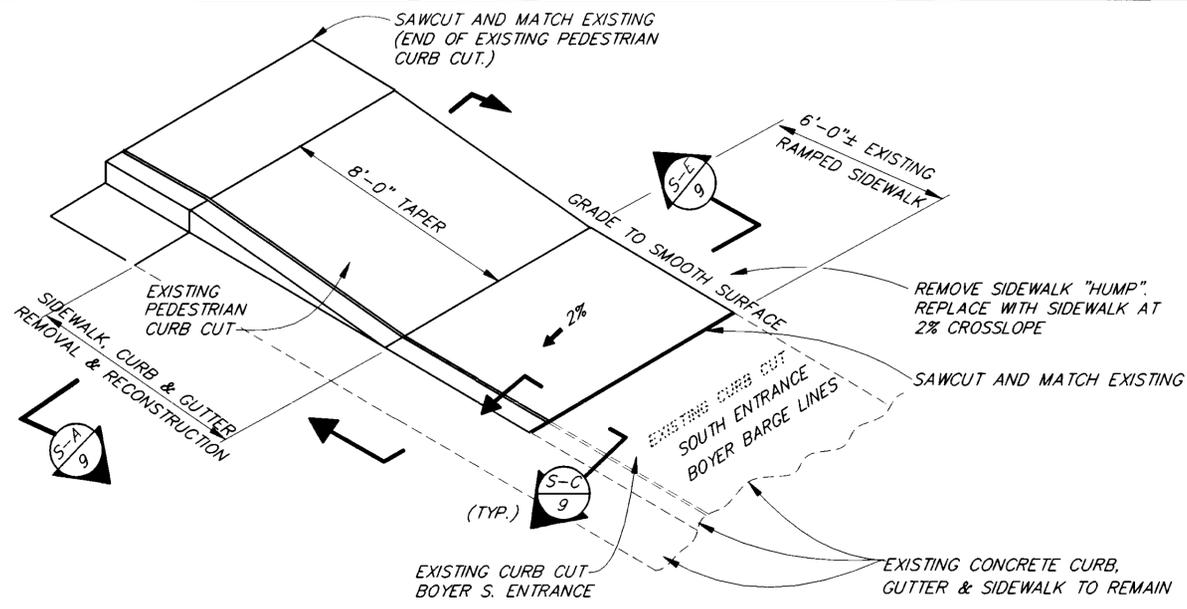
DESIGNED BY: K. MATTSON	PROJECT NO. 71631
DRAWN BY: K. MATTSON/C. ANDERSON	DATE: 1995
CHECKED BY: K. SMITH	SHEET 7 OF 16

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

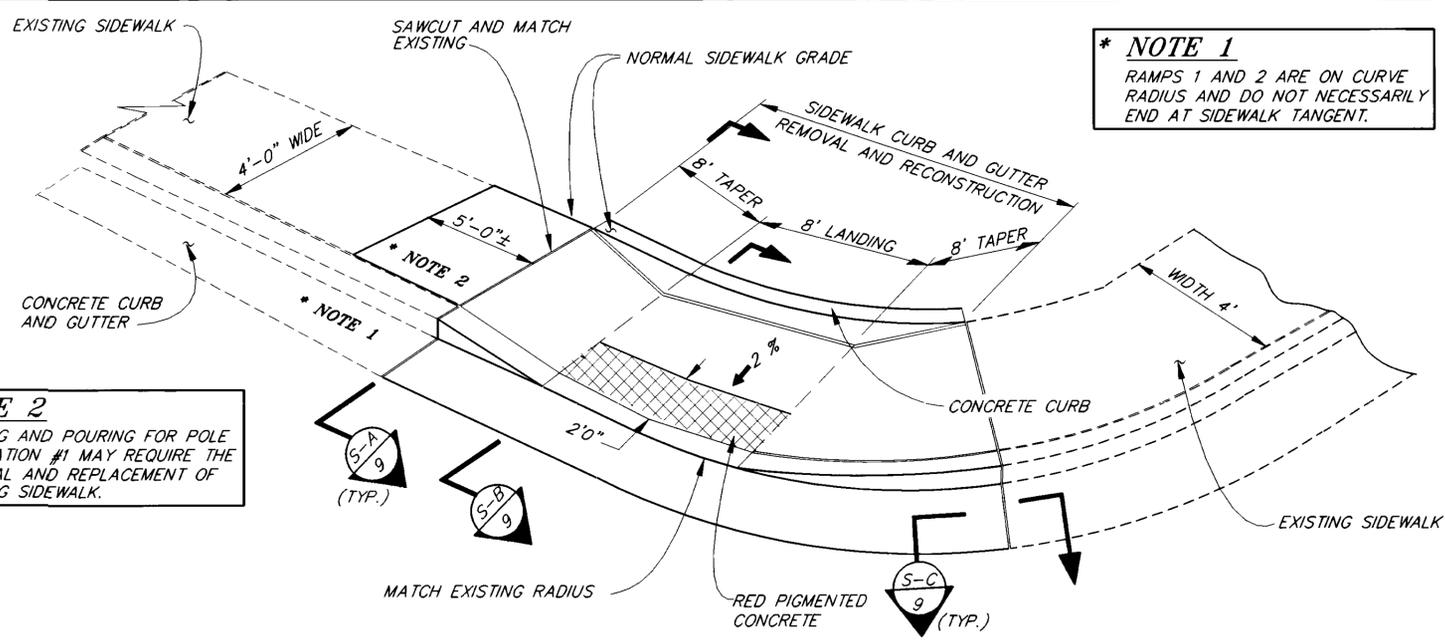
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TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
POLE DETAILS

ALASKA

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DATE:	
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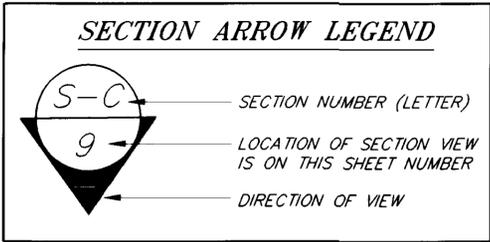
DETAIL 4



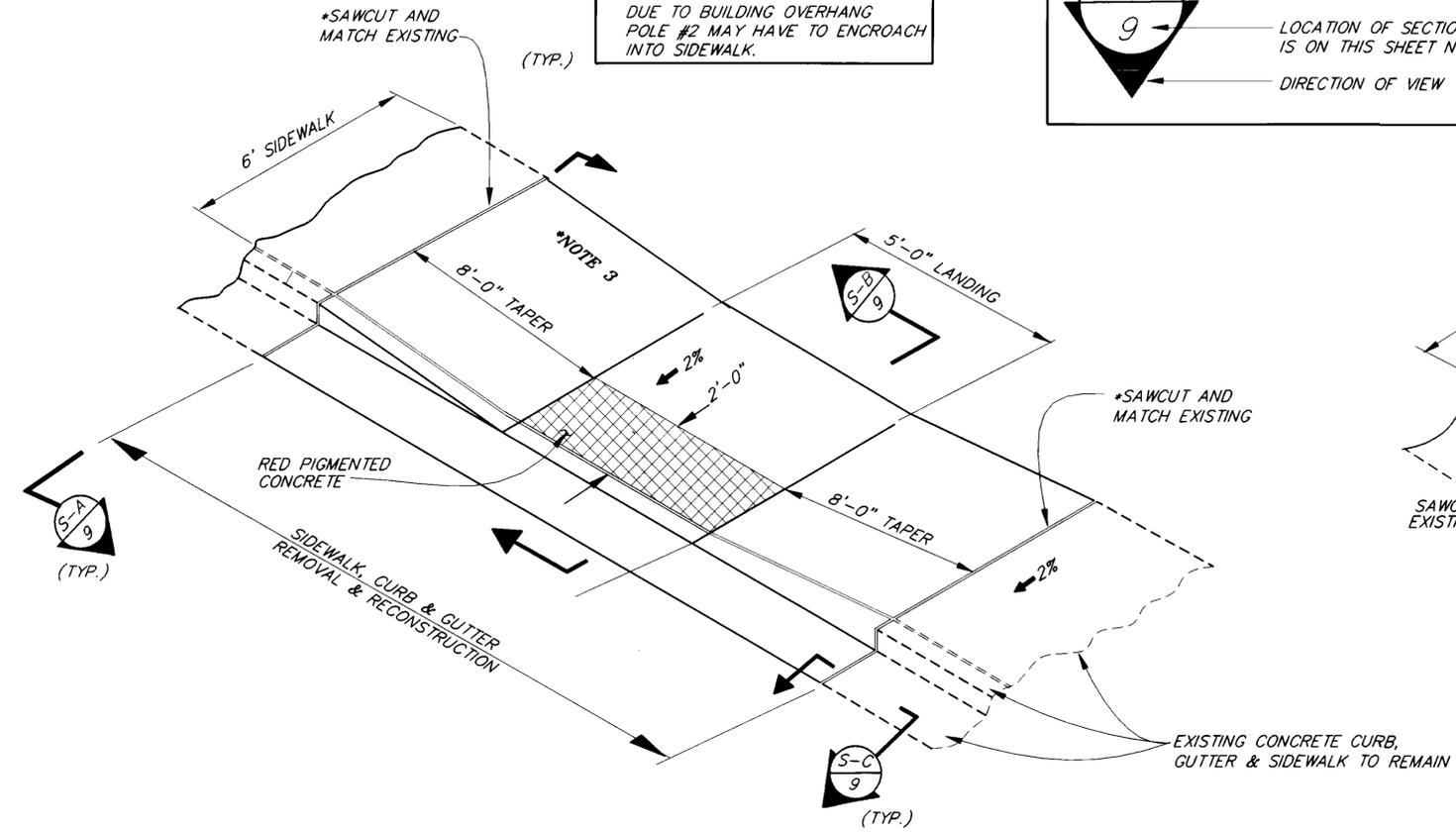
**DETAIL 1
WHEELCHAIR RAMP AT INTERSECTION**

*** NOTE 1**
RAMPS 1 AND 2 ARE ON CURVE RADIUS AND DO NOT NECESSARILY END AT SIDEWALK TANGENT.

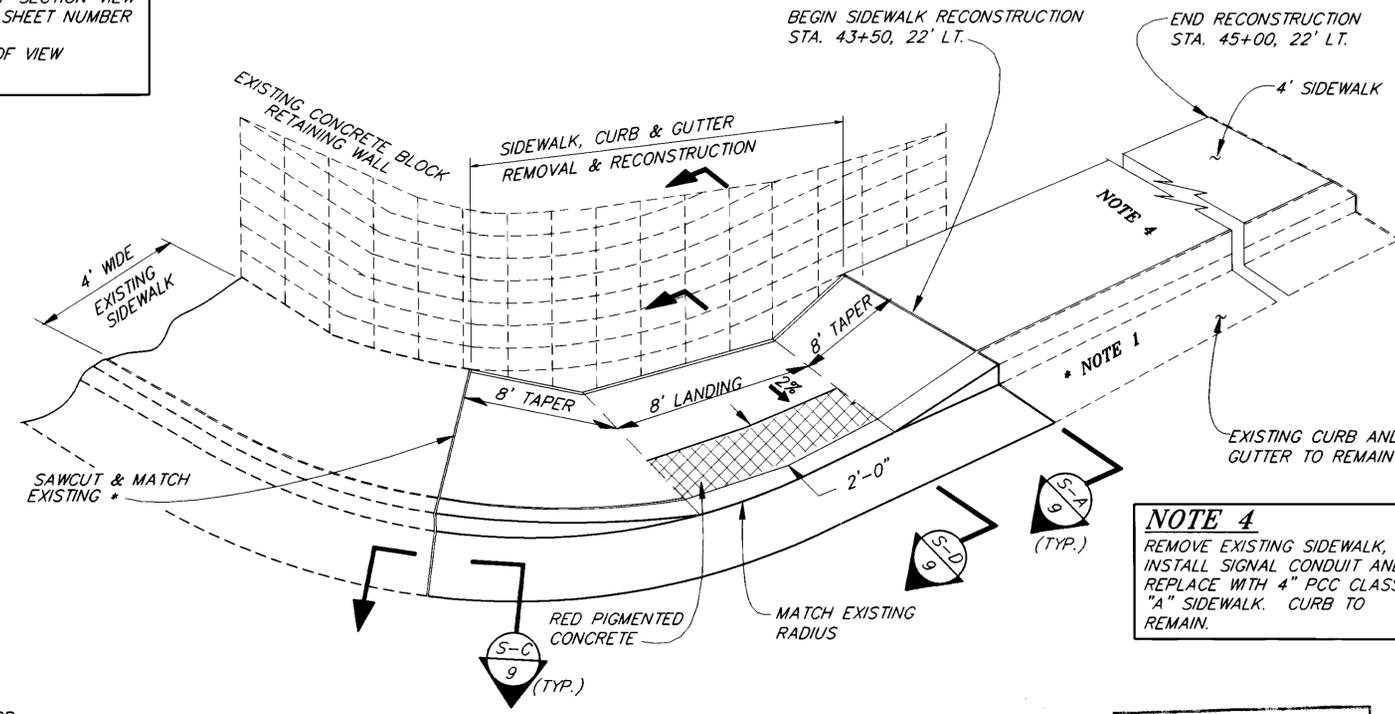
*** NOTE 2**
DRILLING AND POURING FOR POLE FOUNDATION #1 MAY REQUIRE THE REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK.



*** NOTE 3**
DUE TO BUILDING OVERHANG POLE #2 MAY HAVE TO ENCROACH INTO SIDEWALK.



**DETAIL 3
WHEELCHAIR RAMP**



**DETAIL 2
WHEELCHAIR RAMP AT INTERSECTION**

NOTE 4
REMOVE EXISTING SIDEWALK, INSTALL SIGNAL CONDUIT AND REPLACE WITH 4" PCC CLASS "A" SIDEWALK. CURB TO REMAIN.

AS-BUILT
BY: K.K. DATE: 1/97

PATH: P:\KTN\71631\DR\ -SWDET PLOT1.PCP(20) PLOT2.PCP(40)	
BY:	DESCRIPTION OF CHANGE:
DATE:	
RECORD OF REVISIONS	

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

KETCHIKAN

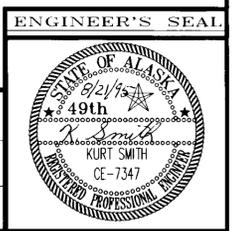
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
SIDEWALK DETAILS

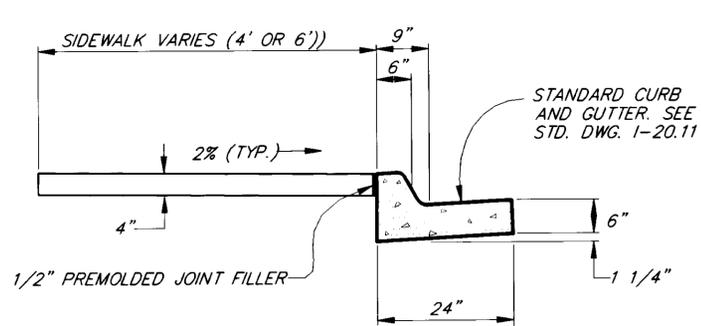
ALASKA

DESIGNED BY: K. MATTSON
DRAWN BY: K. MATTSON/C. ANDERSON
CHECKED BY: K. SMITH

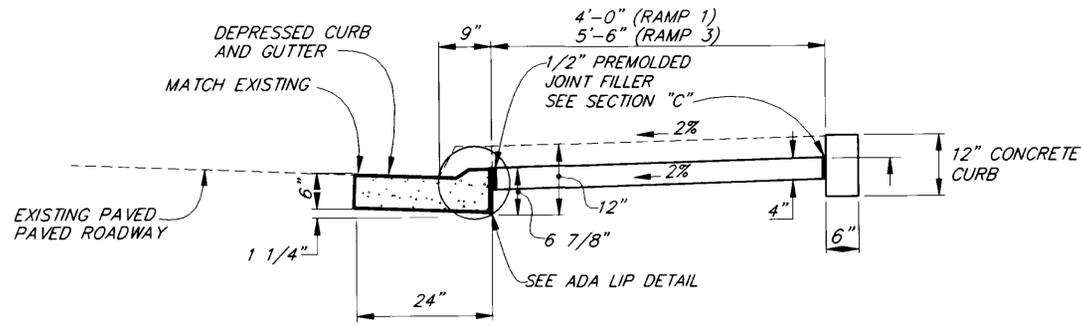
PROJECT NO. 71631
DATE: 1995
SHEET 8 OF 16

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

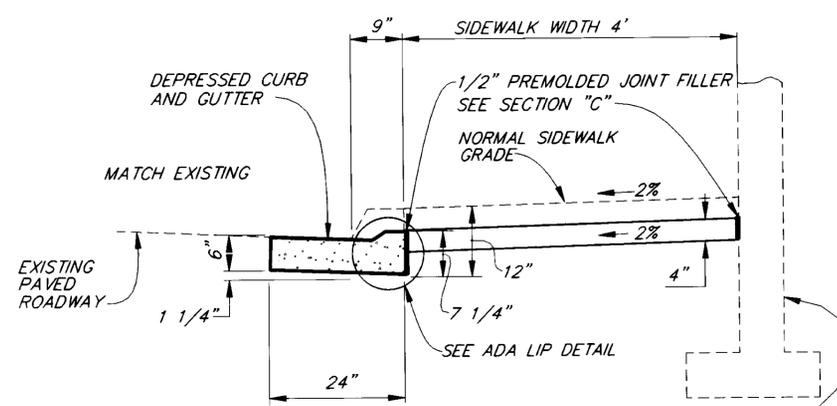




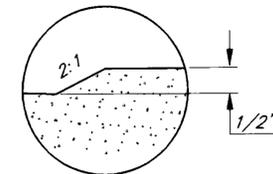
SECTION A



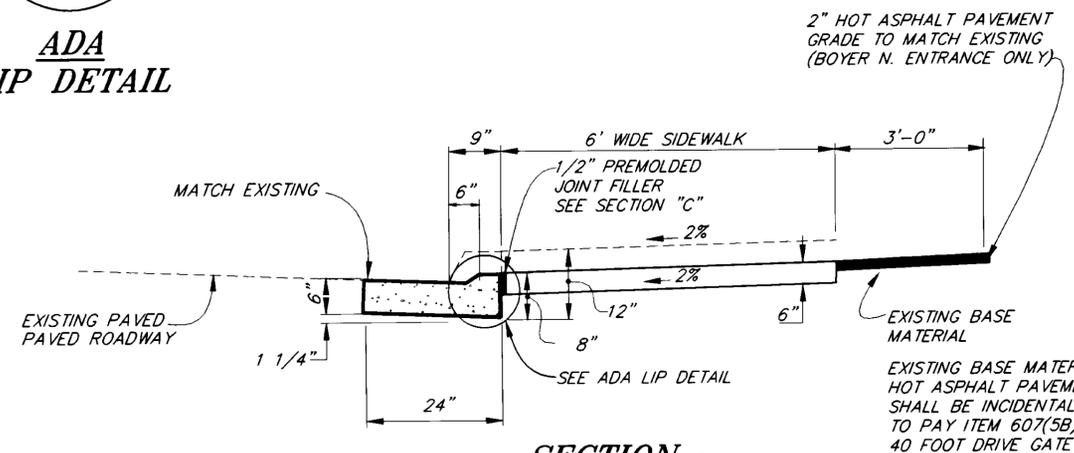
**SECTION B
ADA LANDING**



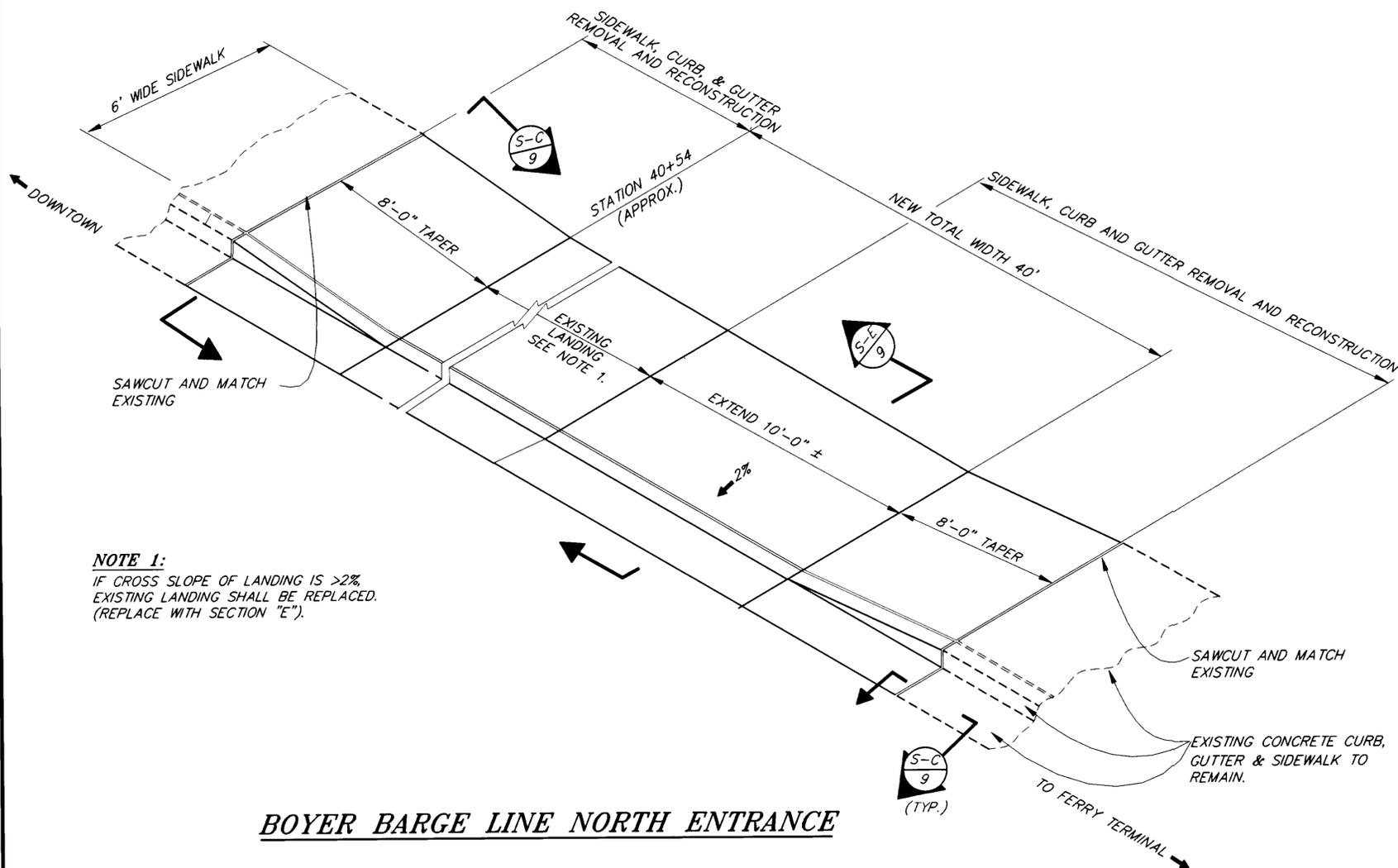
**SECTION D
ADA LANDING**



**ADA
LIP DETAIL**



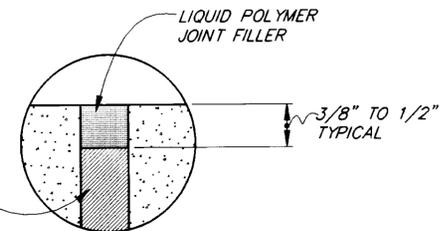
**SECTION E
DRIVEWAY ENTRANCE**



BOYER BARGE LINE NORTH ENTRANCE

NOTE 1:
IF CROSS SLOPE OF LANDING IS >2%,
EXISTING LANDING SHALL BE REPLACED.
(REPLACE WITH SECTION "E").

AS-BUILT
BY: K. K. DATE: 1/97



SECTION C

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	P: \KTN\71631\DR\ -SWSEC	PLOT.F.PCP(20) PLOTH.PCP(40)
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

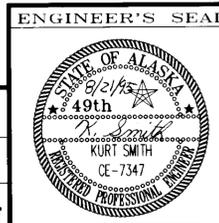
KETCHIKAN

TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
SIDEWALK SECTIONS

ALASKA

DESIGNED BY:
K. MATTSON
DRAWN BY:
K. MATTSON/C. ANDERSON
CHECKED BY:
K. SMITH

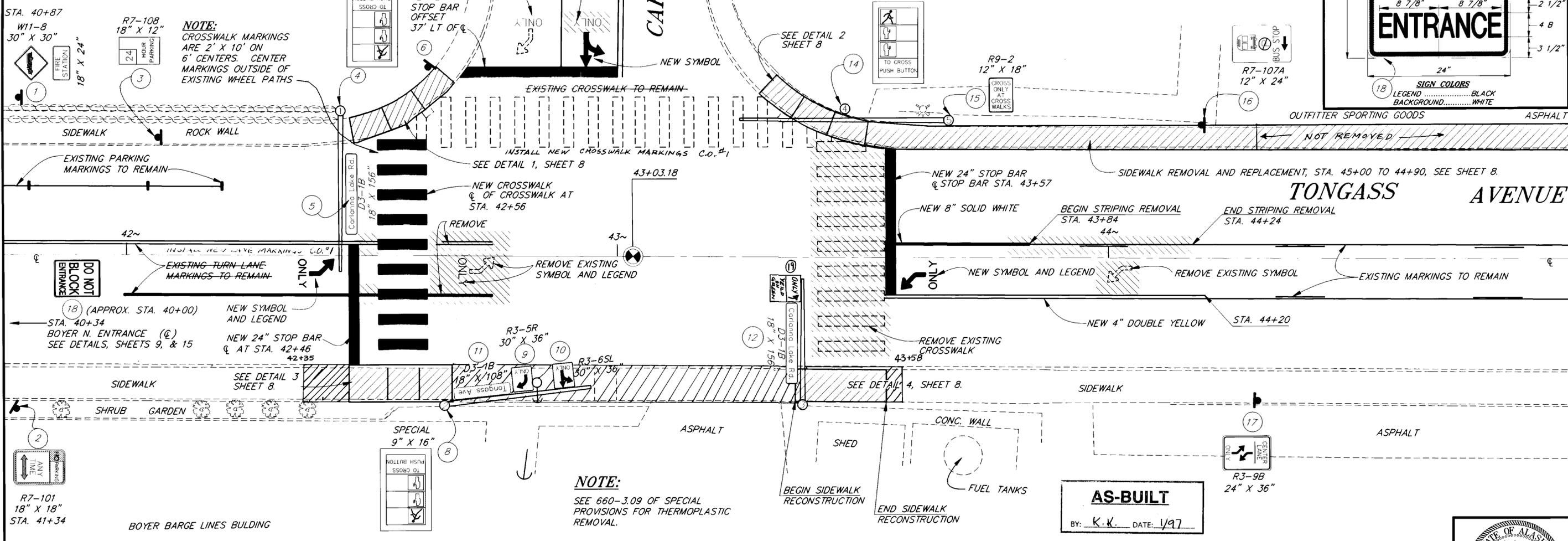
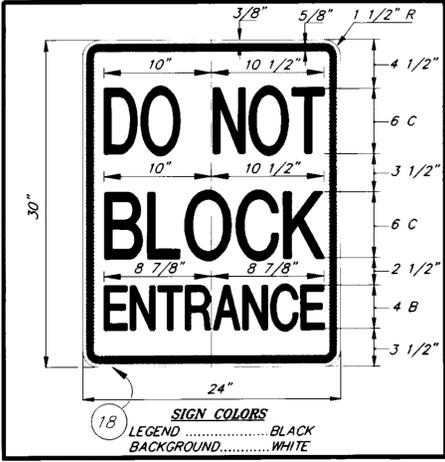
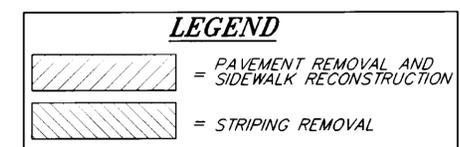
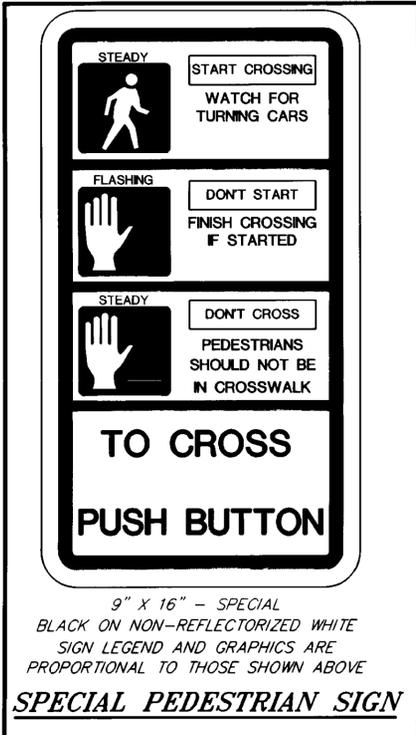
PROJECT NO.
71631
DATE:
1995
SHEET 9 OF 16



SIGN SUMMARY 615(1)

SIGN NO.	STATION	OFFSET		CODE NO. (ASDS)	LEGEND	SIZE IN.	AREA SQ. FT.	FACING TRAFFIC	NO. OF POSTS	POST SIZE IN.	REMARKS
		LT	RT								
1	40+87	27		W11-8	FIRE STATION (SYMBOL)	30" X 30"	6.25	NB	-	-	REPLACE SIGN: USE EXISTING POST
2	40+87	27		PLAQUE	FIRE STATION (LEGEND)	18" X 24"	3.00	NB	-	-	REPLACE EXISTING: MOUNT BELOW #1
3	41+34		30	R7-101	NO PARKING ANYTIME	18" X 18"	2.25	SB	-	-	REPLACE SIGN: USE EXISTING POST
4	42+07	24		R7-108	24 HOUR PARKING	18" X 18"	2.25	NB	-	-	REPLACE SIGN: USE EXISTING POST
5	POLE #1			SPECIAL	PEDESTRIAN DIRECTIONS	9" X 16"	1.00	SB&WB	-	-	AFFIX TO SIGNAL POLE
6	42+61	37		D3-1B	CARLANNA LAKE RD	36" X 126"	15.75	NB	-	-	ON MAST ARM: SEE SHEET 6
7	42+68	100		R1-1	STOP	36" X 36"	0.00	WB	-	-	SALVAGE EXISTING SIGNS
8	POLE #2			R3-8SL/R	LEFT & AHEAD/RIGHT	30" X 36"	6.157-50	WB	-	-	REPLACE SIGN: USE EXISTING POST
9	POLE #3	2		SPECIAL	PEDESTRIAN DIRECTIONS	9" X 16"	1.00	EB	-	-	AFFIX TO SIGNAL POLE
10	POLE #4	2		R3-5R	RIGHT TURN ONLY	30" X 36"	7.5-5.00	WB	-	-	ON MAST ARM SEE SHEET 7
11	POLE #1	2		R3-6SL	LEFT/STRAIGHT ONLY	30" X 36"	7.5-5.00	WB	-	-	ON MAST ARM SEE SHEET 7
12	POLE #3			D3-1B	TONGASS AVE	18" X 96"	12.00	WB	-	-	ON MAST ARM SEE SHEET 7
13	43+23	70		D3-1B	CARLANNA LAKE RD	18" X 126"	15.75	SB	-	-	ON MAST ARM SEE SHEET 7
14	POLE #4			R2-1	SPEED LIMIT 20	24" X 30"	5.00	EB	-	-	REPLACE SIGN: USE EXISTING POST
15	POLE #5			SPECIAL	PEDESTRIAN DIRECTIONS	9" X 16"	1.00	NB	-	-	AFFIX TO WALL NEXT TO PUSH BUTTON
16	44+19	27		R9-2	CROSS ONLY AT X-WALKS	12" X 18"	1.50	NB	-	-	AFFIX TO SIGNAL POLE #5
17	44+31			R7-107A	BUS STOP (NO PARKING)	12" X 24"	2.00	NB	-	-	REPLACE SIGN: USE EXISTING POST
18	40+00		30	R3-9B	CENTER TURN LANE	24" X 36"	6.00	SB	-	-	REPLACE SIGN: USE EXISTING POST
19	POLE #3			R10-13	DO NOT BLOCK ENTRANCE	24" X 30"	5.00	SB	1	2"	PLACE AT ENTRANCE TO BOYER BARGE LINES

*NB & SB = TRAFFIC ON TONGASS AVE; EB & WB = CARLANNA



PATH: P:\KIN\71631\DR\STRIP PLOT.PCP(10) PLOT.PCP(20) (DVIEW TWIST 38)

BY:	DATE:	DESCRIPTION OF CHANGE:

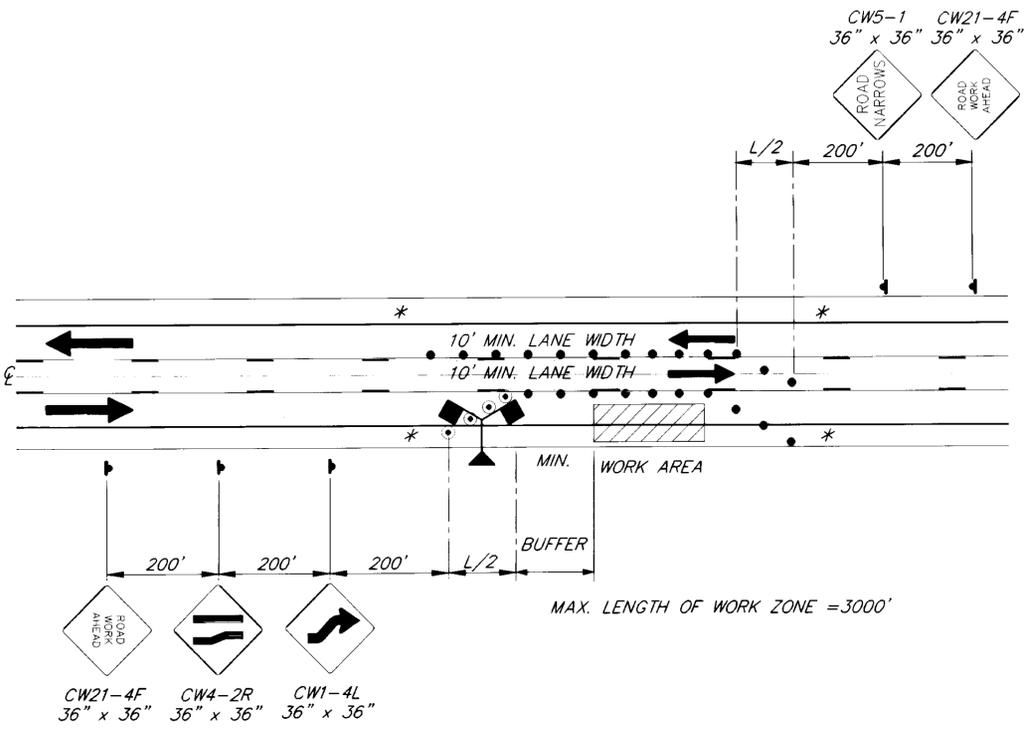
RECORD OF REVISIONS

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

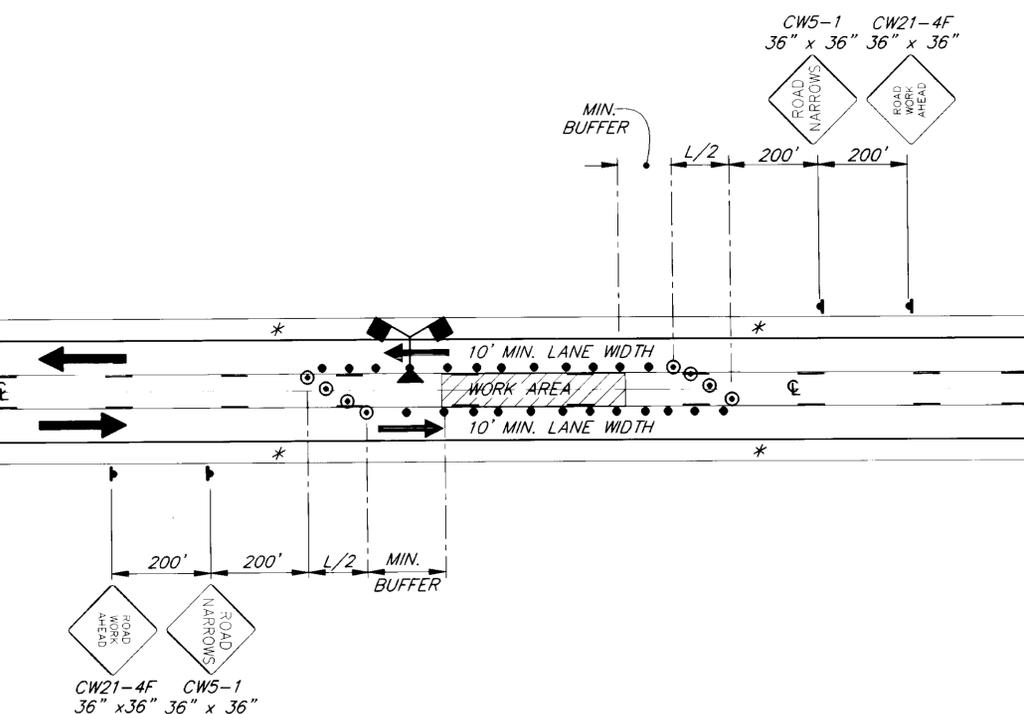
KETCHIKAN
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
STRIPING, SIGNING AND SIDEWALK PLAN

DESIGNED BY: K. MATTSON	PROJECT NO. 71631
DRAWN BY: K. MATTSON/C. ANDERSON	DATE: 1995
CHECKED BY: K. SMITH	SHEET 10 OF 16





TWO-WAY TRAFFIC USING CENTER LANE



TWO-WAY TRAFFIC CENTER LANE CLOSURE

LEGEND

- SIGN
- CONE
- DRUM
- TYPE II BARRICADE
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

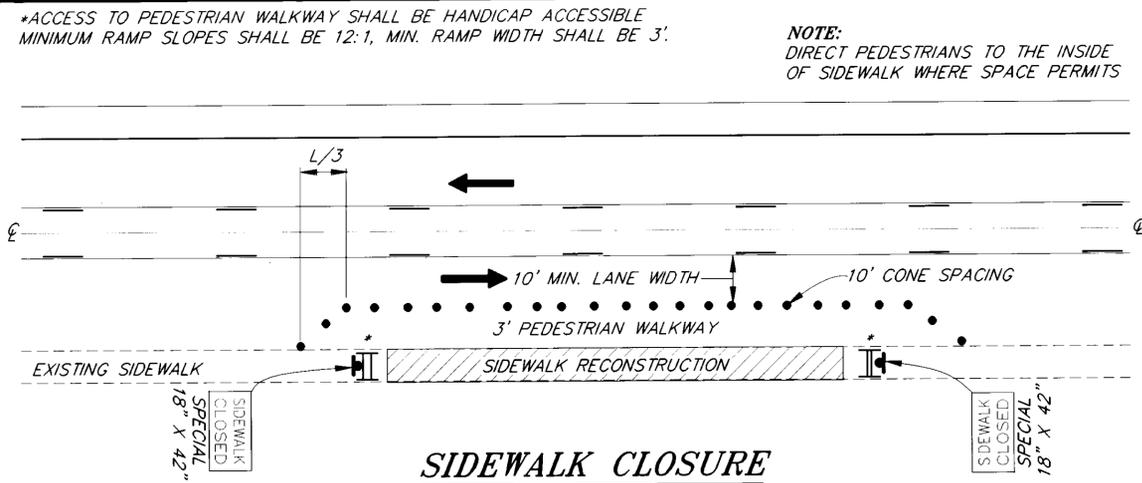
WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT

DRUM OR CONE SPACING = S (IN FEET)

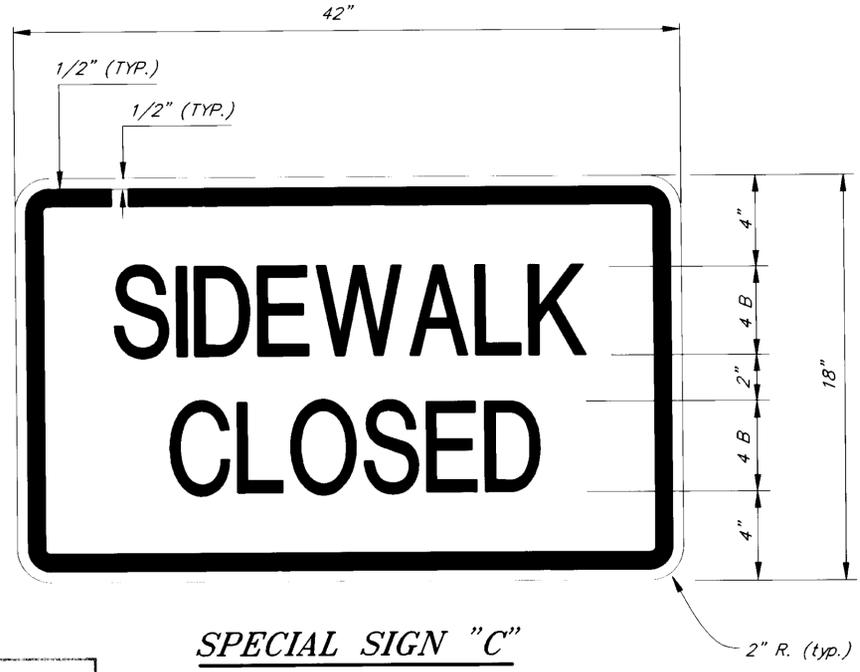
MIN. BUFFER	
S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

TRAFFIC CONTROL NOTES

1. A MINIMUM OF TWO LANES SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
2. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
3. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
4. WHEN THESE DETAILS ARE USED FOR CARLANNA LAKE ROAD, SPACING BETWEEN TRAFFIC CONTROL DEVICES MAY HAVE TO BE SHORTENED TO FIT AVAILABLE SPACE.
5. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
6. 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.



SIDEWALK CLOSURE



SPECIAL SIGN "C"

AS-BUILT
BY: K.K. DATE: V97

LEGEND - BLACK
BACKGROUND - ORANGE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71631\DR\TCP2 PLOT.PCP(1) OR PLOT.PCP(2)

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

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

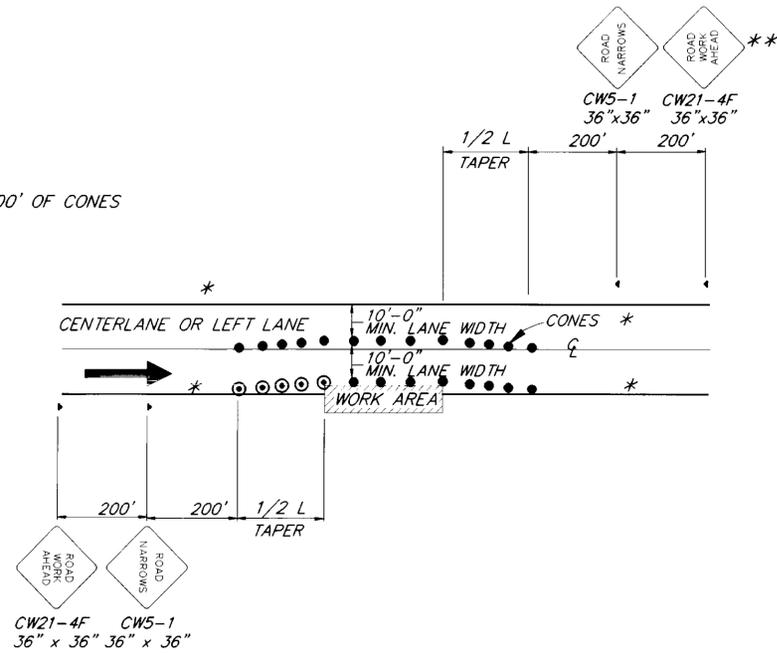
JUNEAU
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
FED. NO. STPG-0902(19) / 71631
TRAFFIC CONTROL PLAN

ALASKA
DESIGNED BY: K. MATTSON
DRAWN BY: K. MATTSON / C. ANDERSON
CHECKED BY: K. SMITH

PROJECT NO. 71631
DATE: 1995
SHEET 11 OF 16



* NO PARKING WITHIN 200' OF CONES



** IF ONLY THE SHOULDER OR 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.

ROADWAY ENCROACHMENT/SHOULDER WORK

LEGEND

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

FORMULAS FOR L (TAPER LENGTH)

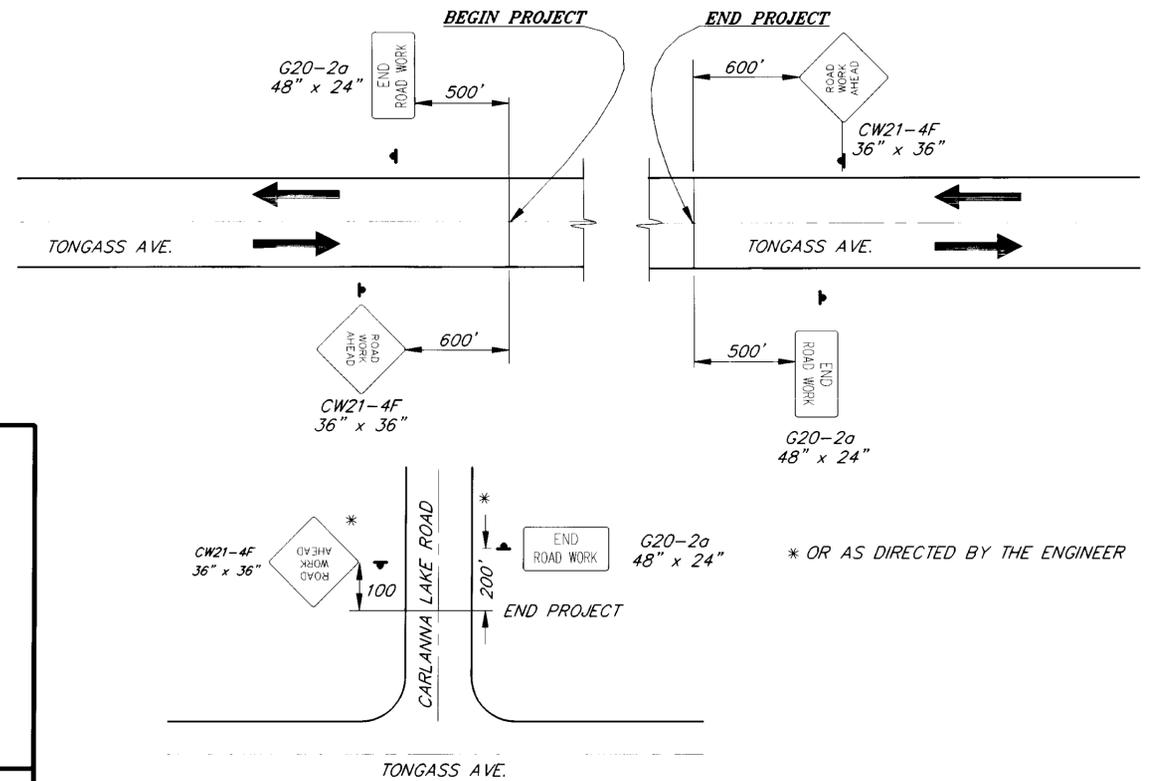
40 MPH OR LESS $L = \frac{W \times S^2}{60}$

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

WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT

DRUM OR CONE SPACING = S (IN FEET)

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



PERMANENT CONSTRUCTION SIGNING

AS-BUILT

BY: K.K. DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

BY:	DATE:	DESCRIPTION OF CHANGE:

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

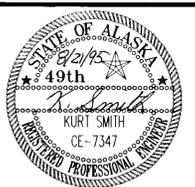
JUNEAU

TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
FED. NO. STPG-0902(19) / 71631
TRAFFIC CONTROL PLAN

ALASKA

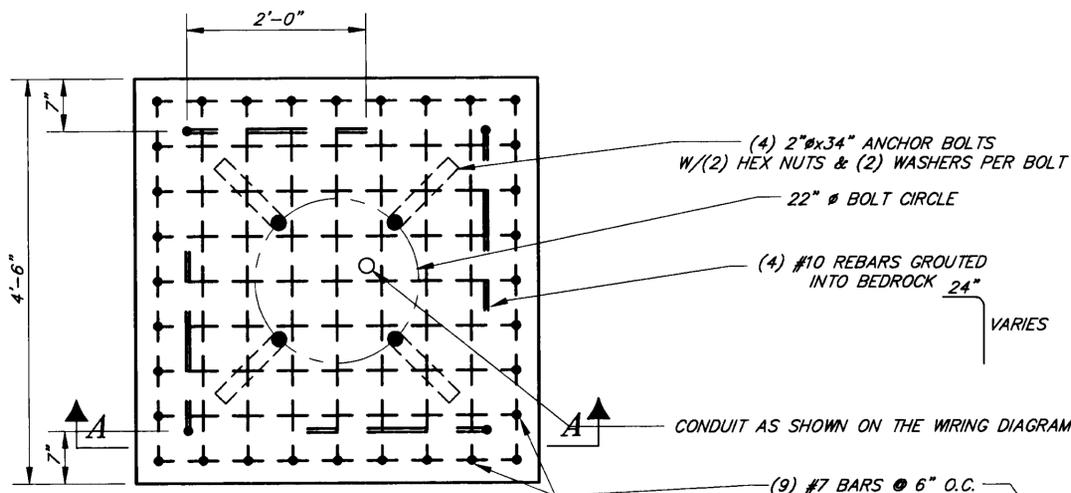
DESIGNED BY:
K. MATTSON
DRAWN BY:
K. MATTSON/C. ANDERSON
CHECKED BY:
K. SMITH

PROJECT NO.
71631
DATE:
1995
SHEET 12 OF 16

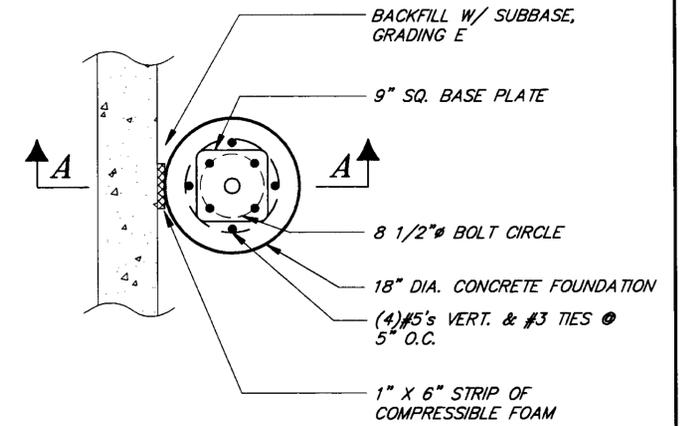


NOTES:

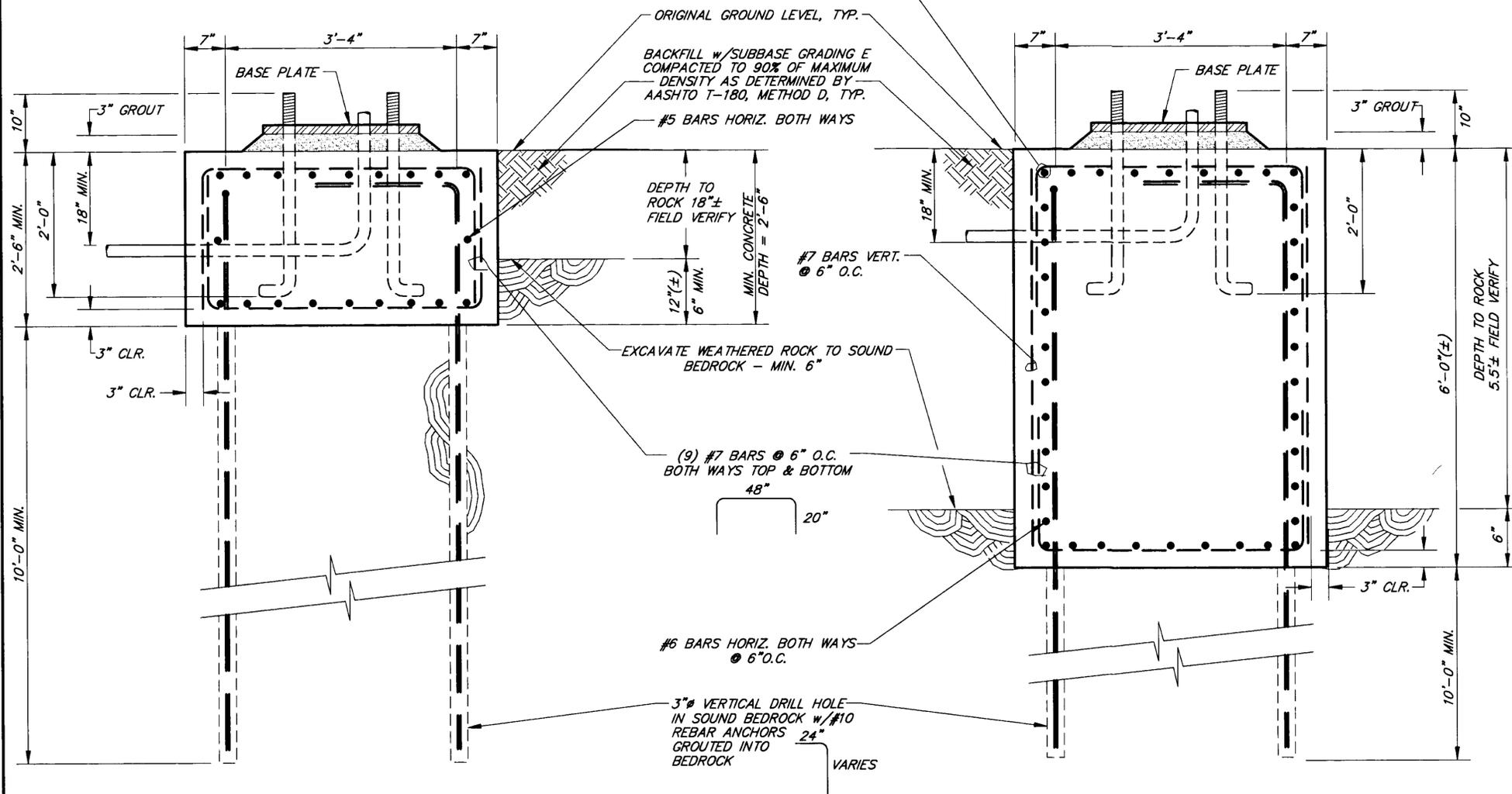
1. DESIGN, FABRICATION AND INSTALLATION OF STRUCTURAL SUPPORT SYSTEMS FOR TRAFFIC SIGNALS AND/OR LUMINAIRES SHALL CONFORM TO THE ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
2. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
3. DESIGN WIND VELOCITY 100 M.P.H. EXPOSURE C
4. USE CLASS "A" CONCRETE.
5. REINFORCEMENT BAR SHALL CONFORM TO ASTM A615 - GRADE 60.
6. GROUT SHALL BE NONSHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7,000 psi PER ASTM C-109. GROUTING OF BASE PLATES PRIOR TO PLUMBING OF COLUMNS SHALL NOT BE PERMITTED.



SIGNAL POLE No. 1 & 5 ~ PLAN

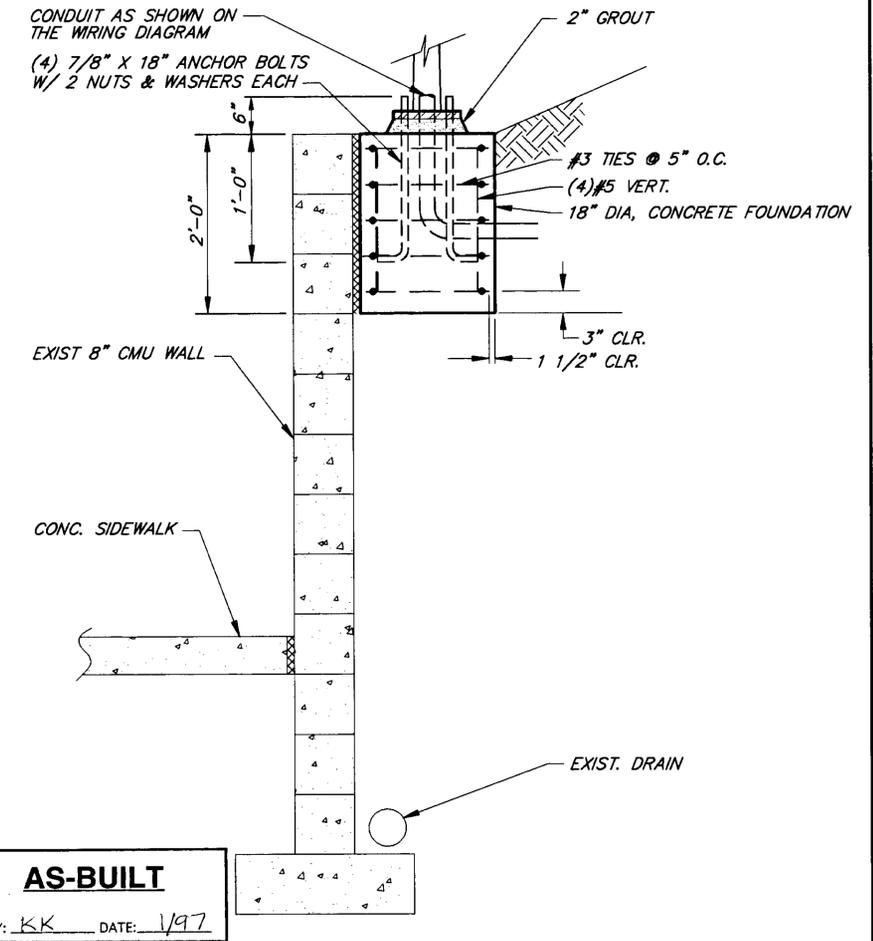


SIGNAL POLE No. 4 ~ PLAN



SIGNAL POLE No. 5 ~ SECTION AA

SIGNAL POLE No. 1 ~ SECTION AA



SIGNAL POLE No. 4 ~ SECTION AA

AS-BUILT
BY: KK DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

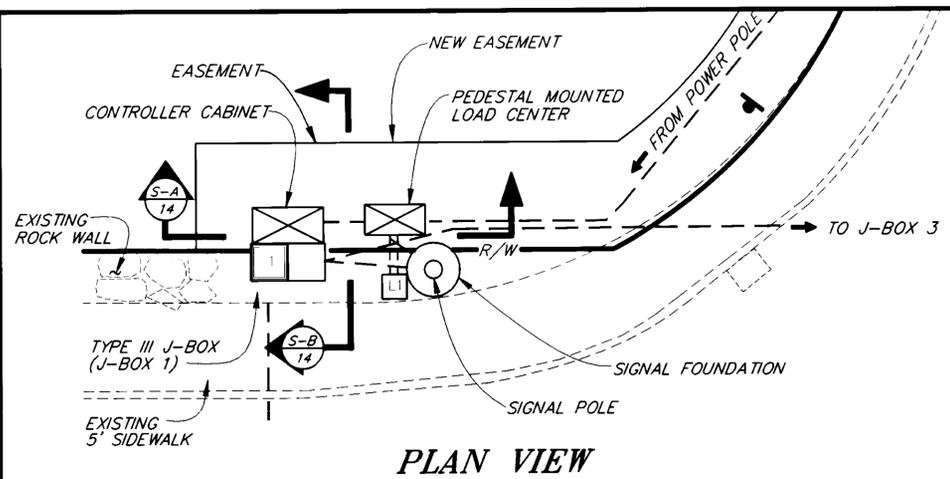
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BY:	DATE:
DESCRIPTION OF CHANGE:	
RECORD OF REVISIONS	

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

KETCHIKAN
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19) / 71631
SIGNAL POLE FOUNDATION DETAILS

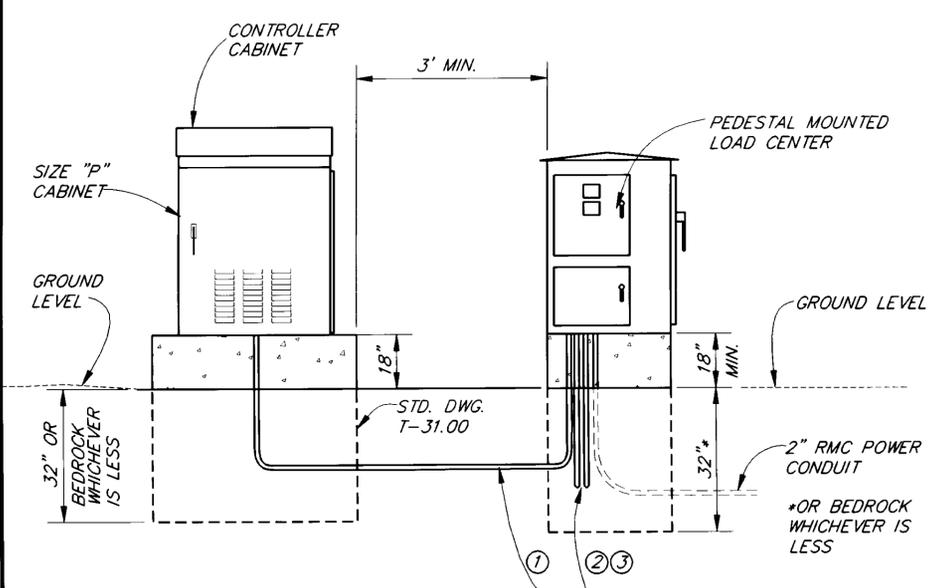
DESIGNED BY:	A.D.S.	PROJECT NO.	71631
DRAWN BY:	D.A.S.	DATE:	FEB 95
CHECKED BY:	M.C.S.	SHEET	13 OF 16



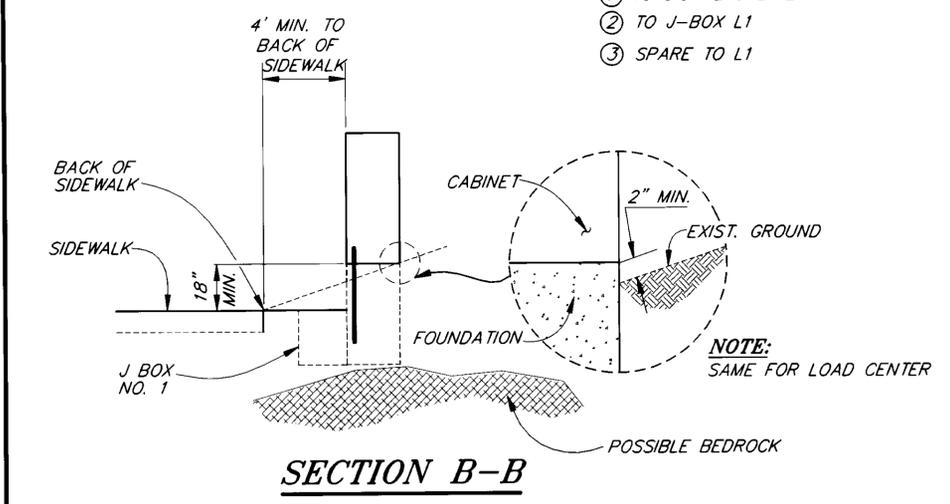


PLAN VIEW

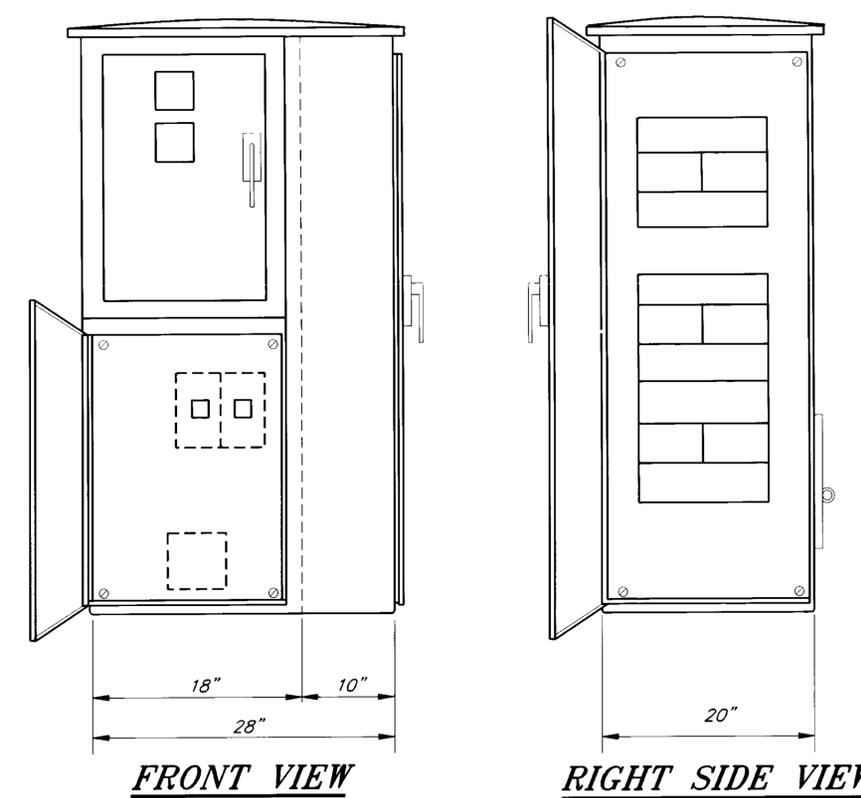
CABINET & LOAD CENTER LOCATION DETAIL



SECTION A-A

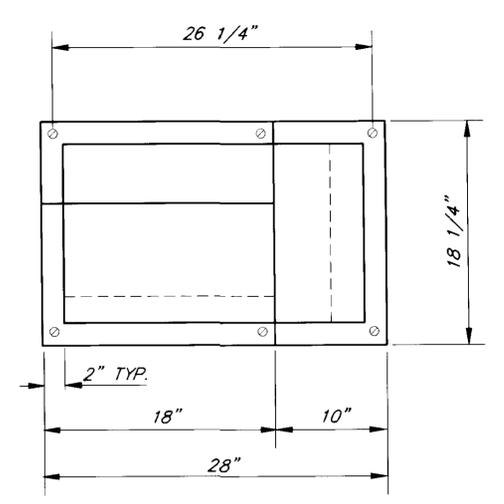


SECTION B-B



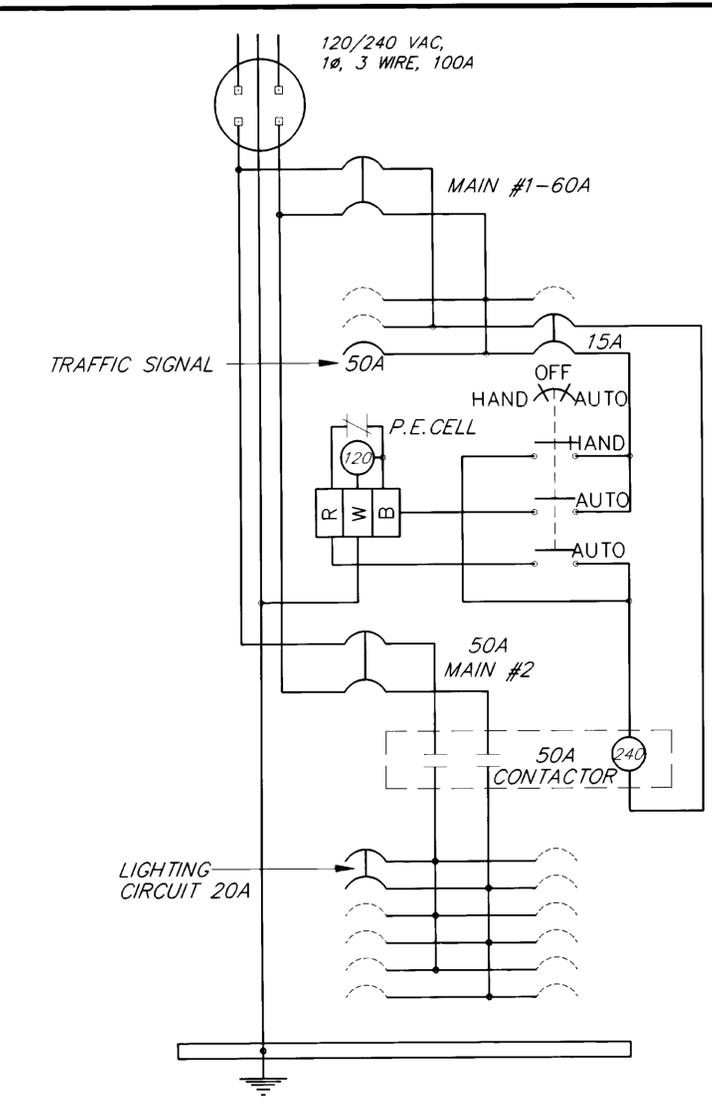
FRONT VIEW

RIGHT SIDE VIEW



PLAN VIEW

LOAD CENTER DETAILS



LOAD CENTER SCHEMATIC

NOTES:

1. DIMENSIONS SHOWN ARE NOMINAL AND MAY VARY BETWEEN MANUFACTURERS.
2. ANCHOR BOLT PATTERN AND FOUNDATION SHALL BE CONSTRUCTED TO MATCH CABINET. FOUNDATION SHALL HAVE #3 REBAR AT 16" VERTICAL AND HORIZONTAL AROUND PERIMETER OF FOUNDATION, 3" CLEAR.

AS-BUILT
BY: KK DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:	DATE:	DESCRIPTION OF CHANGE:
P:\KTN\71631\DR\MISDET < PLOT1.PCP(1) OR PLOT1.PCP(2) >		
BY:		

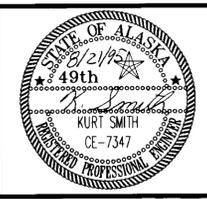
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

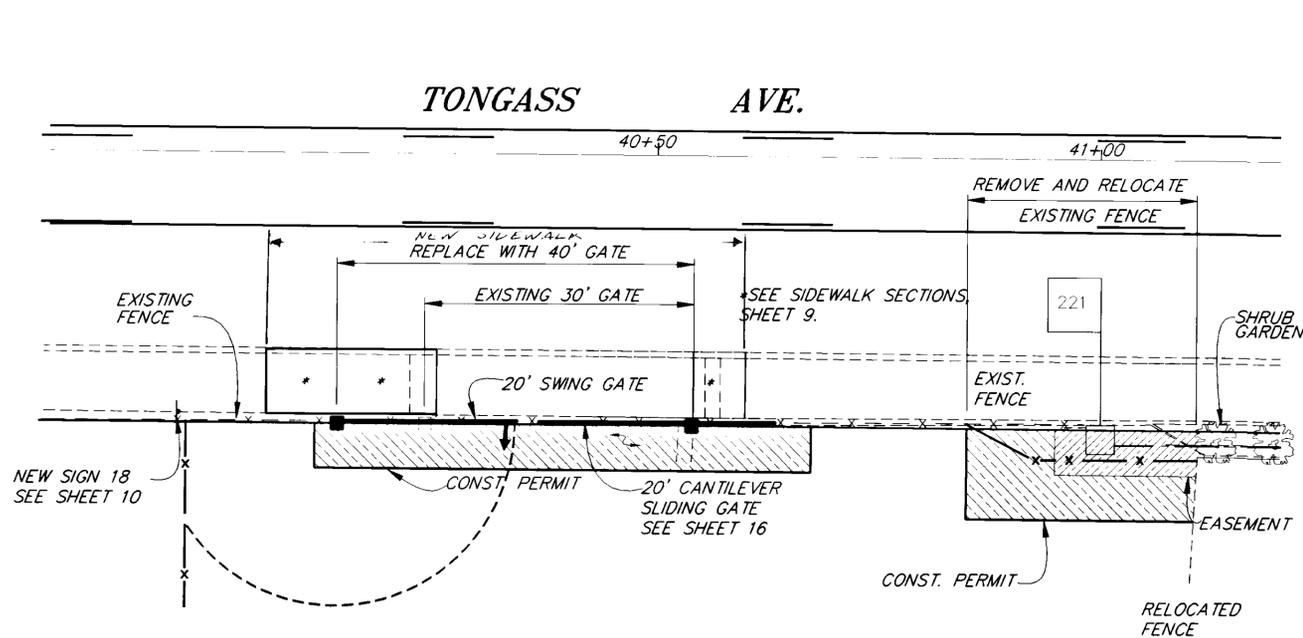
JUNEAU

TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
FED. NO. STPG-0902(19) /71631
MISCELLANEOUS DETAILS

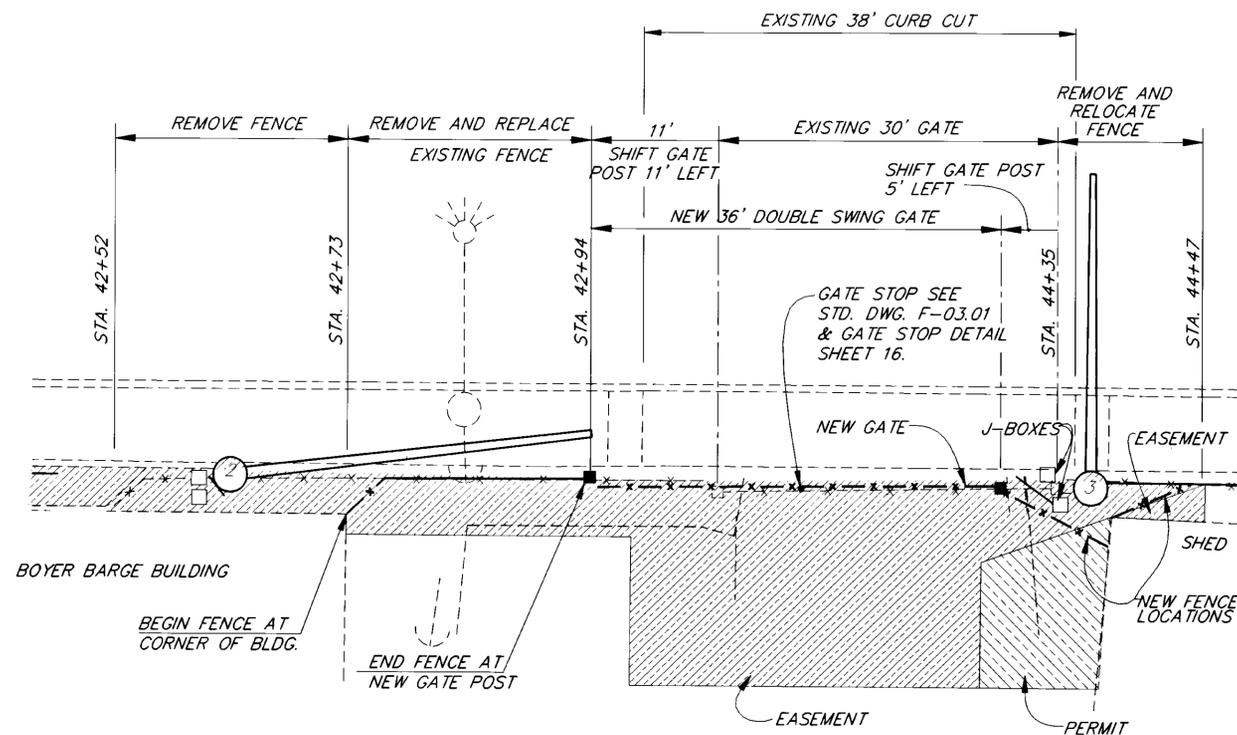
ALASKA

DESIGNED BY: K. MATTSON	PROJECT NO. 71631
DRAWN BY: B. ADAMS/C. ANDERSON	DATE: 1995
CHECKED BY: K. SMITH	SHEET 14 OF 16

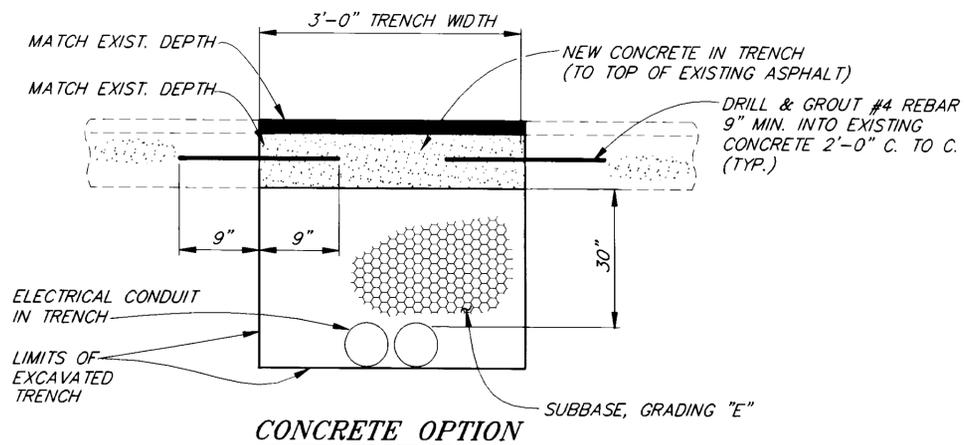




**GATE AND FENCE RECONSTRUCTION DETAIL
BOYER N. ENTRANCE**



**FENCE AND GATE DETAIL
BOYER S. ENTRANCE**



TRENCH RECONSTRUCTION DETAILS

NOTES:

1. TRENCH RECONSTRUCTION WORK AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO ITEM 660 (1).
2. STEEL REINFORCING BAR MAY BE ENCOUNTERED DURING CONCRETE SAWING OPERATIONS.

AS-BUILT
BY: K.K. DATE: 1/97

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH:	P:\KTN\71631\DR\MISC3 PLO1F.PCP(1) PLO1F.PCP(2)	
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

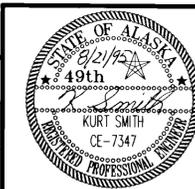
KETCHIKAN

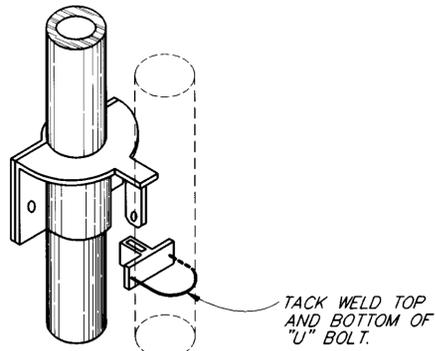
TONGASS AVENUE
CARLANNA LAKE ROAD SIGNALIZATION
PROJECT NO. STPG-0902(19)/71631
MISCELLANEOUS DETAILS

ALASKA

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

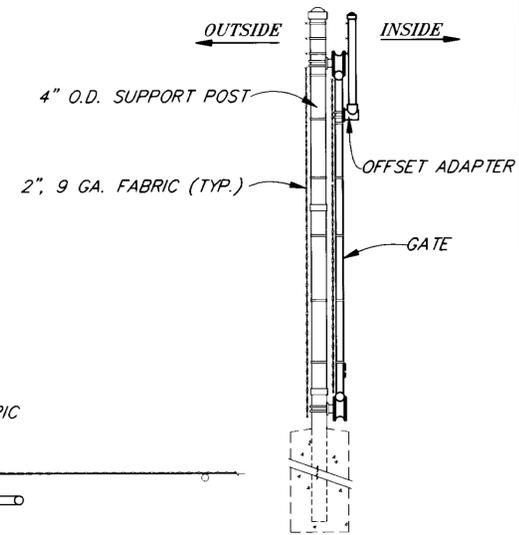
PROJECT NO.
71631
DATE:
1995
SHEET **15** OF **16**



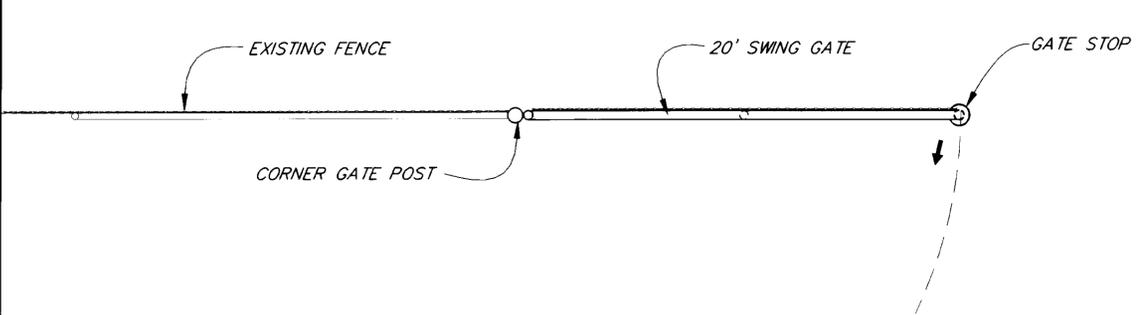


ICE FREE LOCKING ASSEMBLY DETAIL

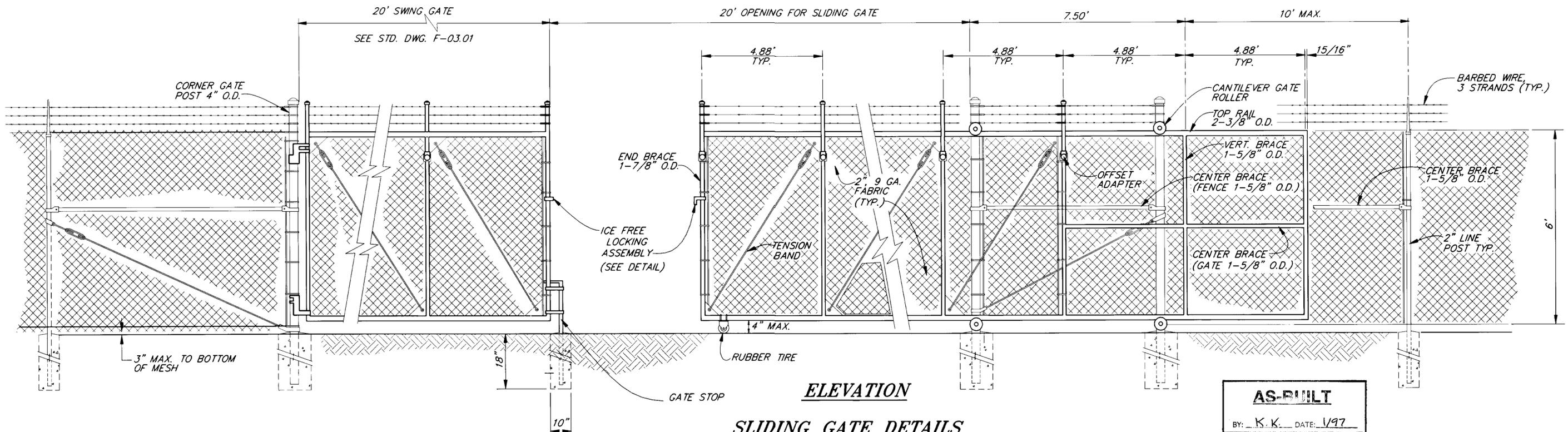
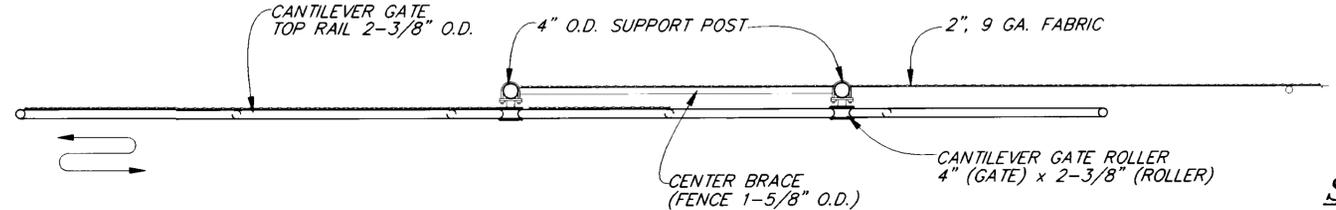
NOTES:
 1. GATE AND FENCE DIMENSIONS ARE NOMINAL AND WILL VARY AMONG THE MANUFACTURERS.



SECTION



PLAN



ELEVATION

SLIDING GATE DETAILS

(VIEW FROM INSIDE BOYER YARD)

AS-BUILT
 BY: K.K. DATE: 1/97

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
 TONGASS AVENUE
 CARLANNA LAKE ROAD SIGNALIZATION
 PROJECT NO. STPG-0902(19)/71631
BOYER NORTH ENTRANCE - GATE DETAILS

DESIGNED BY: K. MATTSON	PROJECT NO. 71631
DRAWN BY: K. MATTSON/C. ANDERSON	DATE: 1995
CHECKED BY: K. SMITH	SHEET 16 OF 18

