



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

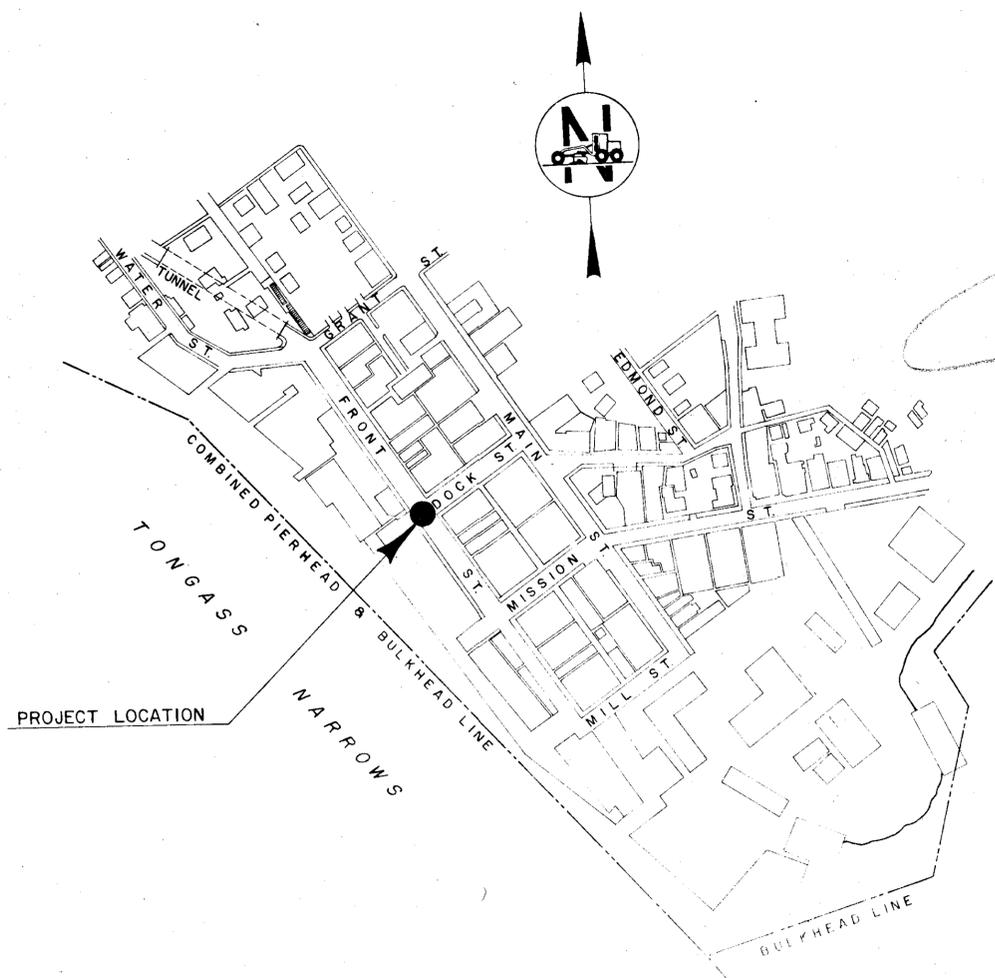
**PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
RSG-M-0902(12) B-59912
DOCK ST. INTERSECTION
SIGNALIZATION
(STATE SUPPLIED SIGNAL POLES AND
CONTROLLER CABINET)**

INDEX OF SHEETS	
SHEET NO.	DISRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES AND MISC. SUMMARIES
3	SIGNAL PLAN
4	SIGNAL POLE DETAILS
5	SIGNING & STRIPING PLAN
6	MISCELLANEOUS DETAILS

THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT: A-01.00, C-00.00, C-10.01, C-11.01, S-00.00, S-05.00, S-20.00, S-21.00, S-30.00, T-20.00, T-21.00, T-22.00, T-30.00, T-31.00, T-32.00, T-33.00, T-34.00, & T-52.00

DESIGN DESIGNATION

ADT 1981	=	12,790
ADT 2001	=	231,098
DHV 12%	=	2,784
T	=	5%
V	=	25



"As Built"
 CONTRACTOR: WYMAN CONSTRUCTION CO., INC.
 PROJECT ENGINEER: DALE ROBBINS
 BEGINNING DATE: JUNE 25, 1984
 COMPLETION DATE: AUGUST 30, 1984

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APPROVED

SIGNING SCHEDULE

No.	Station	Dist from Lt.	Dist from Rt.	Code No.	Legend	Sign Panel Thickness			Post			Facing Traffic	Remarks				
						Size	Unframed	Framed	Area S.F.	No. of Posts	Type			Size	Length	Embedment	
1	1+57	31'		R7-101	No Parking Anytime	12"x18"	.080		1.5			SB	Band to Luminaire				
2	1+57	31'		R7-107	No Parking Bus Stop	12"x18"	.080		1.5			SB	Mount below #1				
3	2+27	29'		D3-1B	DOCK ST.	48"x18"	.080		6.0			SB	See Pole Detail				
4	2+27	29'		R3-2	No Left Turn	30"x30"	.080		6.25			SB	See Pole Detail				
5	2+27	29'		R1-1(R)	ONE WAY	36"x12"	.080		3.0			EB					
6	2+32		34'	R5-1	DO NOT ENTER	36"x36"	.080		9.0	1	PST	2"x2"	14'	3'	EB	Mount on same post as #7	
7	2+32		34'	R6-1(R)	ONE WAY	36"x12"	.080		3.0			WB					
8	2+32		56'	R7-101	No Parking Anytime	12"x18"	.080		1.5			SB					
9	2+69		35'	R6-1(L)	ONE WAY	36"x12"	.080		3.0	1	PST	2"x2"	11.5'	3'	WB		
10	2+69		35'	R5-1B	Do Not Enter	36"x36"	.080		9.0			EB	Mount on same post as #11				
11	2+79		29'	D3-1	DOCK ST.	48"x18"	.080		6.0			NB	See Pole Detail				
12	2+79		29'	R3-1	No Right Turn	30"x30"	.080		6.25			NB	See Pole Detail				
13	2+79		29'	R6-1(L)	ONE WAY	36"x12"	.080		3.0			NB	See Pole Detail				
14	3+20		23'	R7-101	No Parking Anytime	12"x18"	.080		1.5	1	PST	2"x2"	11.5'	3'	NB		
15	3+70		23'	R7-101	No Parking Anytime	12"x18"	.080		1.5	1	PST	2"x2"	11.5'	3'	SB	See Pole Detail	
16	2+79		29'	R3-2	No Left Turn	30"x30"	.080		6.25								
Total									65.25								

GENERAL SIGNALIZATION NOTES

- Each Signal Head will have its own "Home Run" Cable.
- All conduits shall be sloped to drain.
- All conduits shall be Rigid Metal Conduit, of a size shown in the plans.
- Flash shall be yellow to Front St., north and south bound movements. All other signals shall flash red.
- The State shall supply to the Contractor the following equipment:
 - Poles 1, 2, 3, 4 with Mast Arms and Anchor Bolts
 - Controller Cabinet Type M.1. The Cabinet will be wired for and include the Controller, Fail-Safe, Relays, Flasher, Detector Amplifiers, Load Switches, etc.
- TA: No Pedestrian Crossing Gates on the northwest and southwest corners shall be removed. Payment will be incidental to 660(1), Traffic Signal complete.
- All traffic signal equipment, including, but not limited to Controller, Cabinet, Signal Heads, Detectors and Amplifiers shall conform to N.E.M.A. Standards Publication No. T.S.1.-1976 "Traffic Control Systems."
- Signal Head #11 will be installed without the backplate.
- The Load Center shall be hot dipped galvanized prior to installation.
- A boat may be required to access some of the work areas. Work may be restricted by tidal action.
- All Illumination Conduit shall be 2" Rigid Metal Conduit. Except As shown SHEET 3
- The Electrolier which is in place at the location of the proposed Signal Pole #2 shall be removed and taken to the State of Alaska, Department of Transportation and Public Facilities Maintenance Yard. This work shall be considered incidental to installation of the new luminaires. City has it.
- The Sidewalk, Curb and Gutter that is removed and replaced shall match existing. The Sidewalk will be 3 1/2" in depth.
- When any sidewalk is obstructed by work, pedestrians shall be guided around the work site with barricades. Cones shall be used to separate vehicles and pedestrians as shown in Figure 5-16, page 61, of the "Work Zone Traffic Control" by the U.S. Department of Transportation.
- Two-Way traffic shall be maintained from 8:00 A.M. to 6:00 P.M.
- Project identification signing shall consist of CW 20-1F, "Road Construction Ahead" and G 20-2, "End Construction" signs. Other appropriate signs shall be used as conditions warrant.
- Luminaires shall be 250 watt, 240 volt, single phase, high pressure sodium, Type III, medium - semi-cutoff. Mounting height is 40 feet.
- Signal Head No 11 shall be mounted as high as possible under the awning. The pole shall be field drilled for mounting hardware after it is installed.
- Removal of existing sidewalk shall be considered incidental to Item 608(1) Concrete Sidewalk 3 1/2' depth and no separate payment shall be made therefore.

SIGNAL HEAD SCHEDULE

Signal Head	Post	Lens Size	Indications	Type Mounting St. Drawing T3000	Phase	Height	Remarks
1	1	8"	R-Y-G	T-1	3	10'	
2	1		W-DW	SW-2	2	7'	Symbol
3	1		W-DW	SW-2	3	7'	Symbol
4	2	8"	R-Y-G	S-2	1	10'	
5	2	8"	R-Y-G	S-2	3	10'	
6	2		W-DW	SW-2	3	7'	Symbol
7	2		W-DW	SW-2	1	7'	Symbol
8	2	12"	R-Y-G	Plumbizer	1	19'	
9	3		W-DW	TW-2	3	7'	Symbol
10	3		W-DW	TW-2	1	7'	Symbol
11	4	8"	R-Y-G	SW-1	2	*	* See General Note 19
12	4	12"	R-Y-G	Plumbizer	2	19'	Symbol
13	4		W-DW	SW-2	2	7'	Symbol
14	4		W-DW	SW-2	3	7'	Symbol

DETECTOR SCHEDULE

No.	Station	Offset	Type	Phase	Size	Remarks
1	2+70	29'L	Ped Push	2		
2	2+70	29'L	Ped Push	3		
3	2+27	29'L	Ped Push	3		
4	2+27	29'L	Ped Push	2		
5	2+18	2.5'R	Loop	2	6x20	3 Turn
6	2+25	28'R	Ped Push	1		
7	2+25	28'R	Ped Push	3		
8	2+45	32'R	Loop	3	6x20	3 Turn
9	2+58	32'R	Loop	3	6x20	3 Turn
10	2+79	23'R	Ped Push	3		
11	2+79	23'R	Ped Push	1		
12	2+83	2.5'L	Loop	1	6x20	3 Turn *

* When making sawcut, do not cut into reinforcing bars in the concrete.

POLE & BASE SCHEDULE

No.	Station	Offset	Mast Arm Type	Mast Arm			Footing Type
				K	M	N	
1	2+70	28'L					Post Type A
2	2+27	29'L	Regular	18'			See Detail
3	2+25	28'R					Optional
4	2+79	23'R	Regular	12'			Optional
	1+76	30'L	Controller Base				Type M-1

JUNCTION BOX SCHEDULE

No.	Station	Offset	Type
1	2+22	30'L	II
2	2+23	23'R	II
3	2+32	30'R	II
4	2+70	30'R	II
5	2+79	23'R	II
6	2+23	30'L	I
7	2+24	23'R	I
8	2+32	29'R	I
9	2+70	29'R	I
10	2+79	24'R	I

ESTIMATE OF QUANTITIES

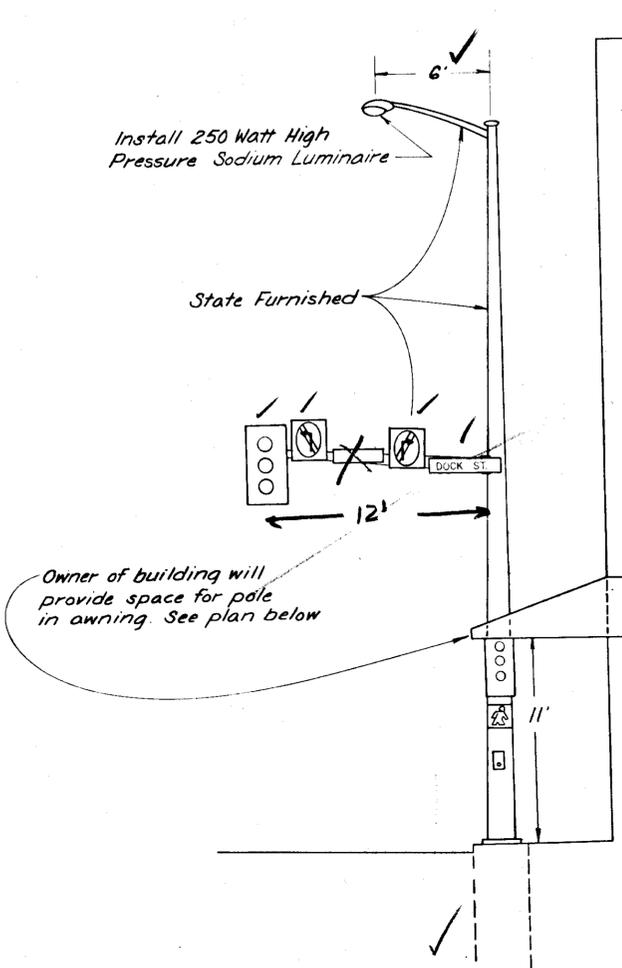
Item No.	Item	Unit	Quantity
110 (1)	Mobilization	L.S.	All Req'd
114 (1)	Construction Surveying by the Constructor	L.S.	All Req'd
115 (1)	Traffic Maintenance	L.S.	All Req'd
202 (8)	Removal of Curb + Gutter	L.F.	40
608 (1)	Concrete Sidewalk 3 1/2" Depth	S.Y.	40
609 (2)	Curb + Gutter Type	L.F.	84
615 (1)	Standard Sign	S.F.	59.00
660 (1)	Traffic Signal System Complete	L.S.	All Req'd
660 (3)	Highway Lighting System Complete	L.S.	All Req'd
670 (1)	Painted Traffic Markings	L.S.	All Req'd
670 (6)	Thermoplastic Pavement Markings	L.F.S.	1630 All Req'd

ESTIMATE OF THERMOPLASTIC QUANTITIES

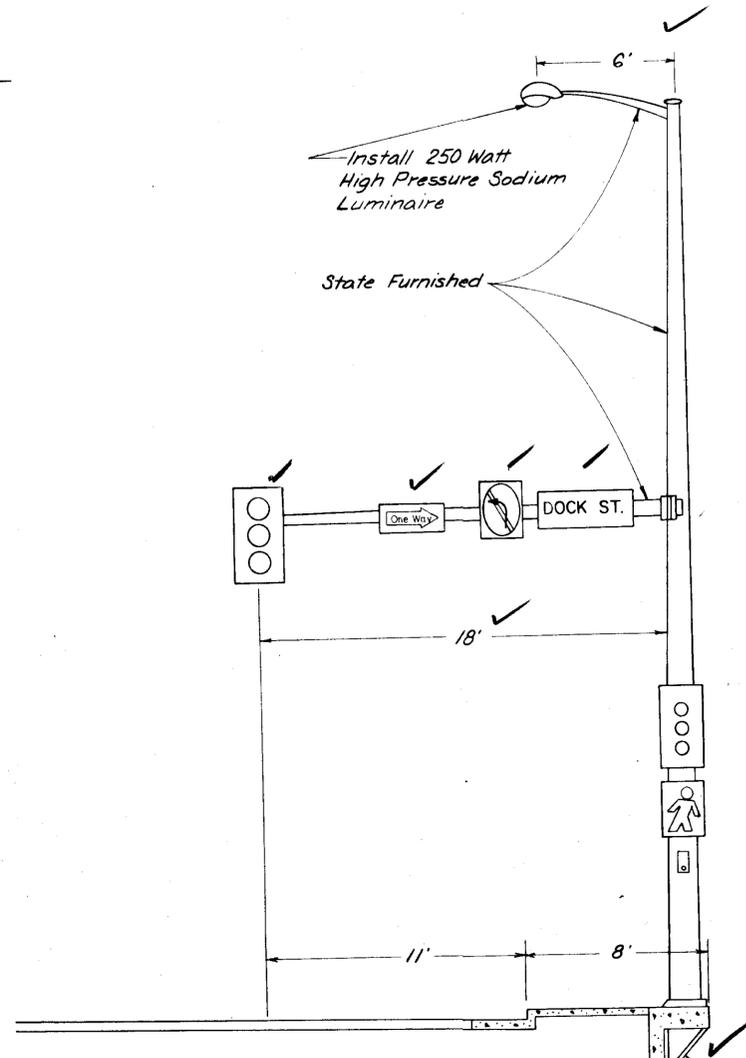
Item	White			Yellow
	4"	8"	24"	4"
Thermoplastic Pavement Markings	80'	100,46	650,325	800'
EACH				
"Only"				1
Arrow - Right				2
Arrow - Straight				2
Arrow - Combination Left				1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RSG-M-0902 (12)	1984	4	6

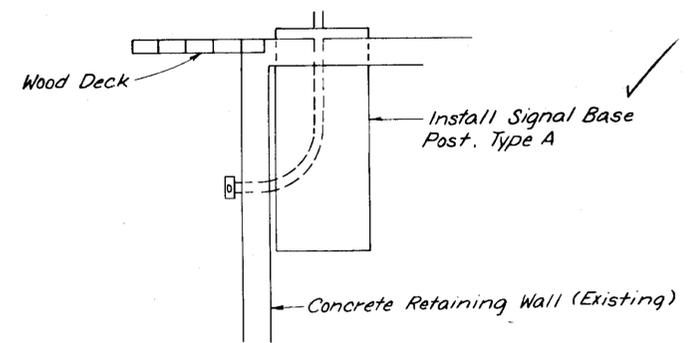
SIGNAL POLE DETAILS



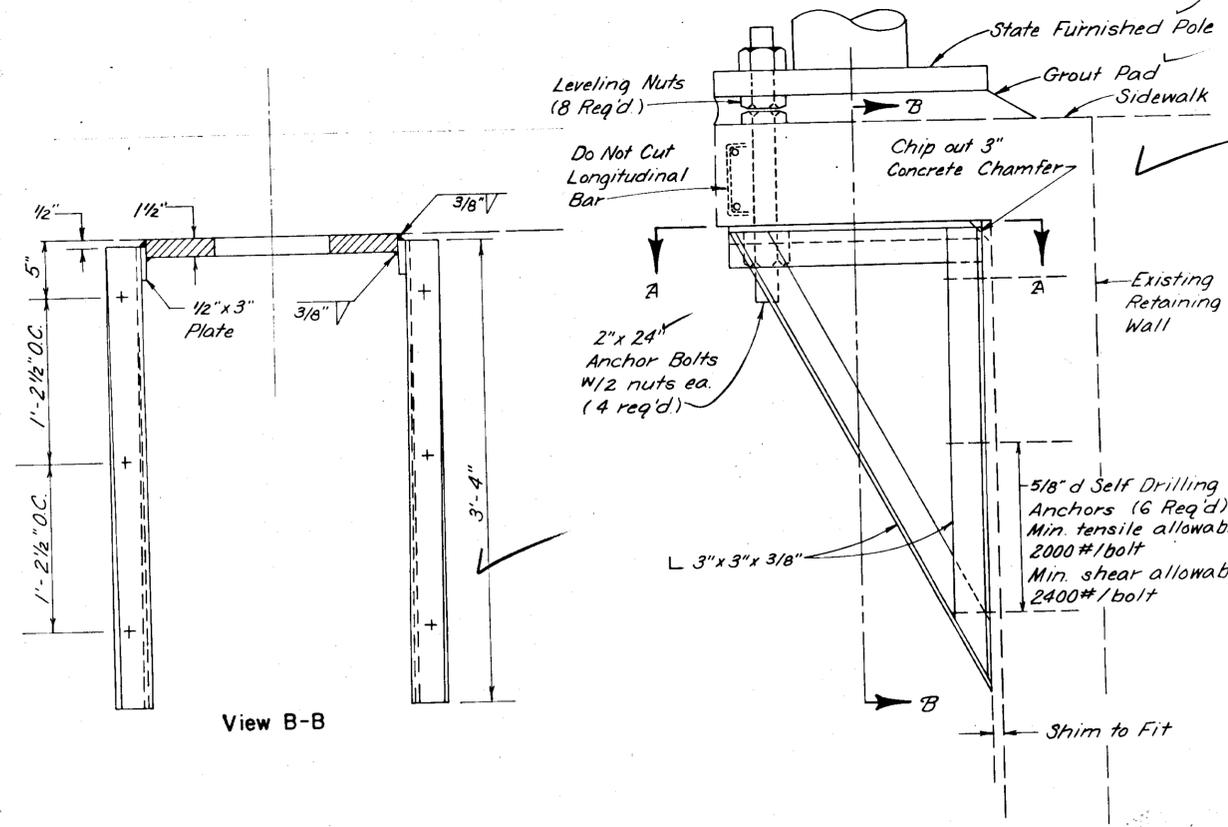
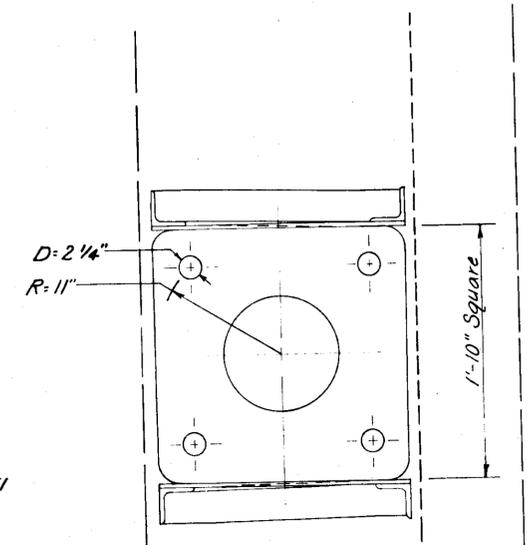
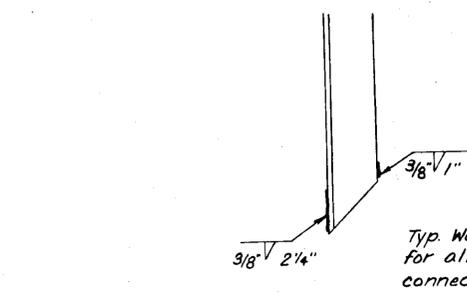
POLE DETAIL 4
Pole No. 4



POLE DETAIL 2
Pole No. 2



FOUNDATION DETAIL
Pole No. 1



FOUNDATION BRACKET DETAIL
Pole No. 2

Complete bracket shall be Hot Dipped Galvanized after fabrication.

[Signature]

Race Drug Store

Signal Pole #4 must be inserted through hole in awning

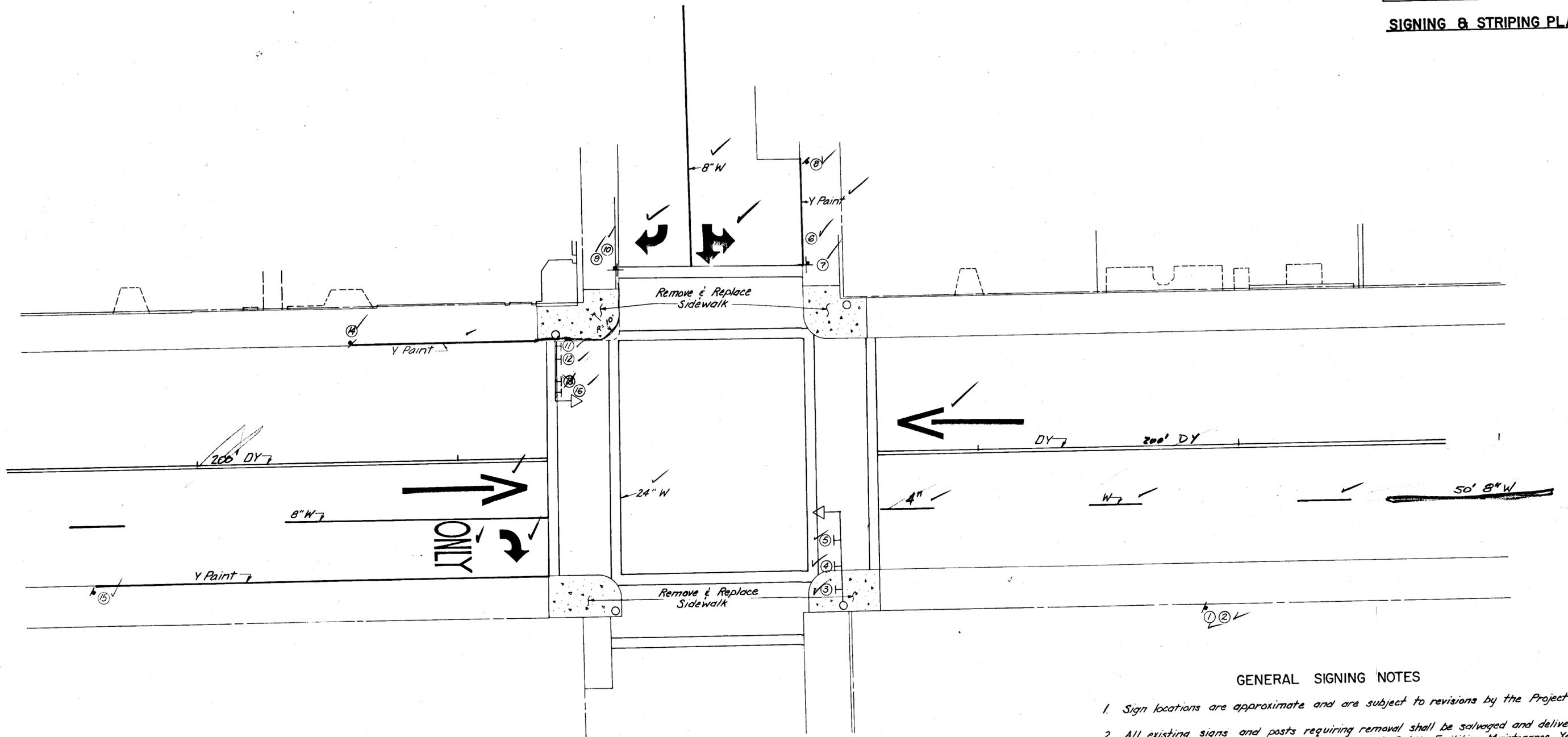
Awning structural support boxbeam must remain intact

Exact station and offset shall be determined in the field to allow pole to clear structural members of awning.

PLACEMENT DETAIL
Pole No. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RSG-M-0902(12)	1984	5	6

SIGNING & STRIPING PLAN



GENERAL SIGNING NOTES

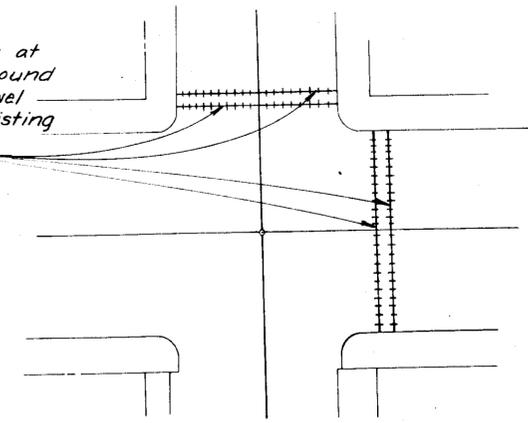
1. Sign locations are approximate and are subject to revisions by the Project Engineer.
2. All existing signs and posts requiring removal shall be salvaged and delivered to the Department of Transportation and Public Facilities Maintenance Yard. Payment for this work shall be considered incidental to Item 615(1) Standard Signs, and no separate payment will be made therefore.
3. All sign posts shall be Telescoping Perforated Galvanized Steel, the 2" size used above ground and the 2 1/4" size below ground.

[Handwritten signature]

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RSG-M-0902 (12)	1984	6	6

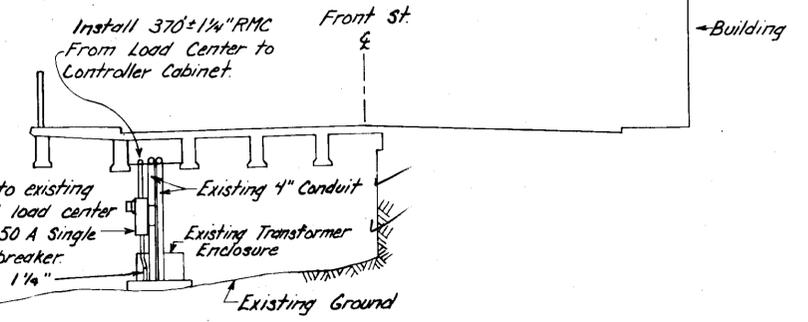
MISCELLANEOUS DETAILS

Install 18" #4 Dowels at 18" c.c. continuous around patch with 1/2 of dowel length drilled into existing roadway



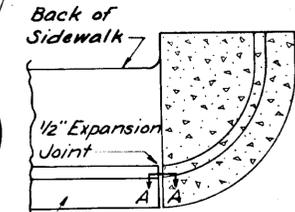
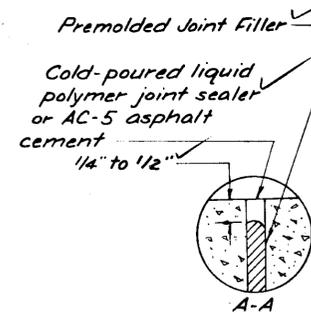
TRENCH PATCH DETAIL

1. Patch shall be concrete, Class A, conforming to Section 501 of the Standard Specifications and shall match the thickness of the existing roadway. Patch is incidental to G60(1) Traffic Signal System.



LOAD CENTER DETAIL

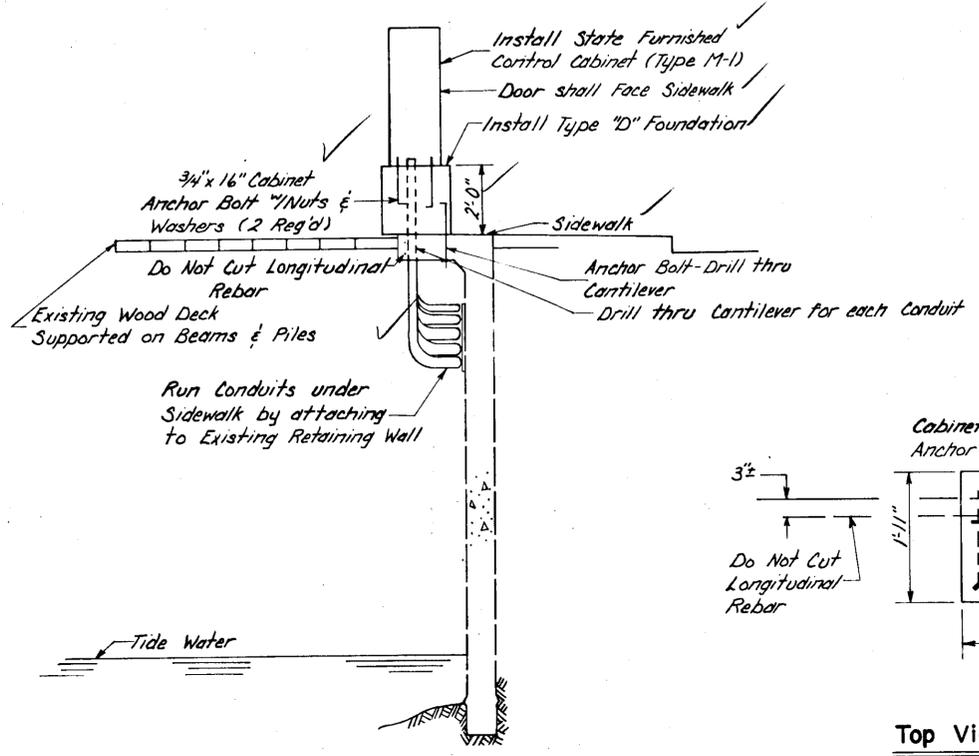
By clamping to existing conduit, install load center complete with 50 A single pole circuit breaker. Connect to existing 1/4" stub-out



See Standard Drawing I-20.01 for Curb & Gutter Details

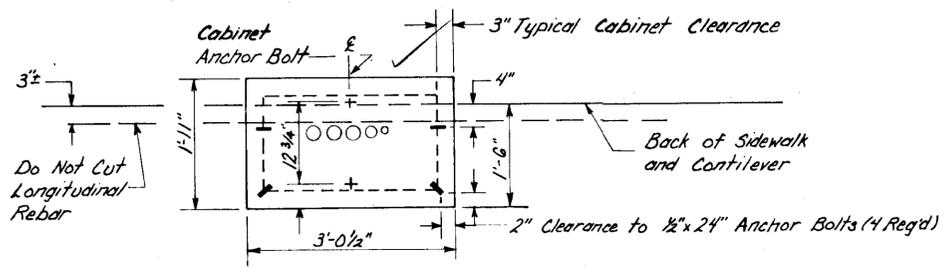
NOTES

- 1. Premolded expansion joint filler and liquid polymer joint sealer (see specifications) or AC-5 asphalt cement shall be considered incidental to G09(2). Curb and Gutter, Standard Type, and no separate payment will be made therefore.
- 2. Curb and Gutter expansion joints shall be at the end of the curb return, and immediately following and preceding curb cuts. Thereafter they shall be placed at intervals of 30' except where shorter sections are needed for closure.
- 3. [Symbol] Indicates curb, gutter and sidewalk transition area. The entire area shall be constructed with the same type of concrete used in the standard type curb and gutter. The face of curb shall transition smoothly from the normal gutter pan elevation to full height in the length indicated on the intersection details. Payment for this work shall be made under Section G09(2).



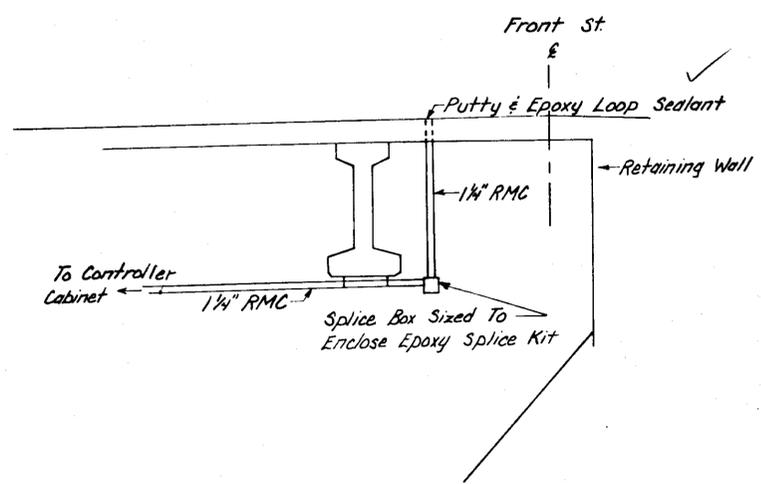
SIGNAL CABINET INSTALLATION DETAIL

n.t.s.

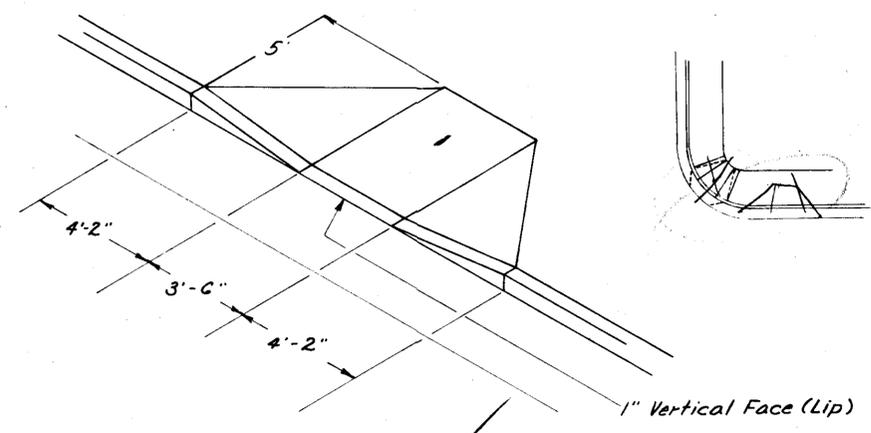


Top View of Type "D" Cabinet Foundation

n.t.s.



LOOP DETECTOR ACCESS FOR LOOP # 12



WHEELCHAIR RAMP DETAIL

CURB EXPANSION JOINT & TRANSITION DETAILS

