

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

F-093-2(7)
EGAN DRIVE

MARINE WAY to BROTHERHOOD BRIDGE
PAVING
AS BUILT PLANS

AB-7

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(7)	1	10

INDEX OF SHEETS

Sheet No.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	ESTIMATE OF QUANTITIES
4-9	PAVEMENT MARKINGS
5	TRAFFIC LOOP-REMOVAL AND RECONSTRUCTION OF TRAFFIC ISLAND
10	TRAFFIC CONTROL PLAN

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT, A1, C-0004, C-1003, C-11.03, I-20.01, S-00.11, S-05.00, S-20.10, S-30.11, T-21.02, T-22.00, T-32.01

PROJECT SUMMARY

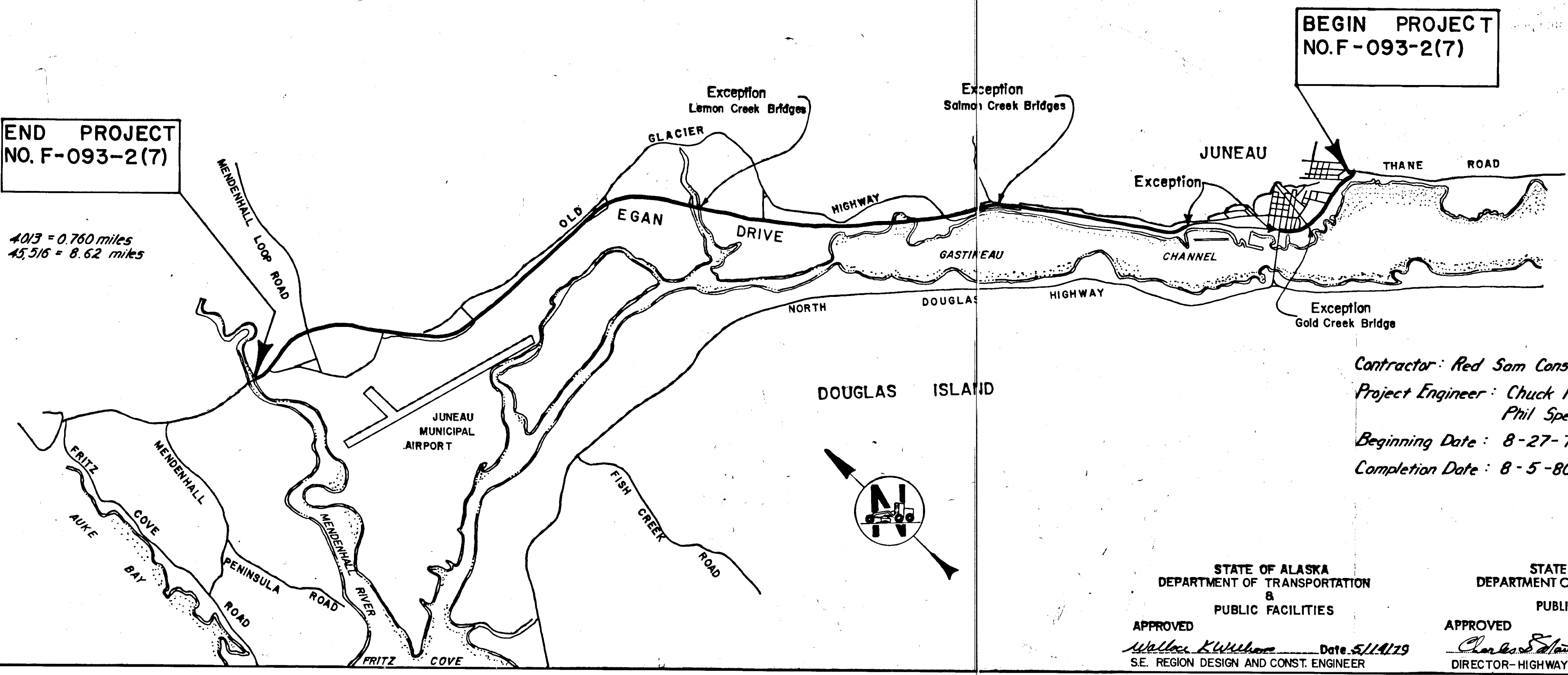
Width of pavement	26.5 to 30
Length of Bridges	= 422 = 0.080 miles
Length of Exception	= 3263 = 0.618 miles
Length of Paving	= 46,266 = 8.76 miles
Length of Project	= 49,951 = 9.46 miles

END PROJECT
NO. F-093-2(7)

4.013 = 0.760 miles
45,516 = 8.62 miles

DESIGN DESIGNATION

ADT (1979)	= 11,515
ADT (2000)	= 23,715
DHV (12%)	= 2845
D	= 65/35
T	= 5%
T.I.	= 9.5



Contractor: Red Sam Construction Co.
Project Engineer: Chuck Hodges
Phil Speer
Beginning Date: 8-27-79
Completion Date: 8-5-80

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
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APPROVED
Wallace K. Williams Date 5/11/79
S.E. REGION DESIGN AND CONST. ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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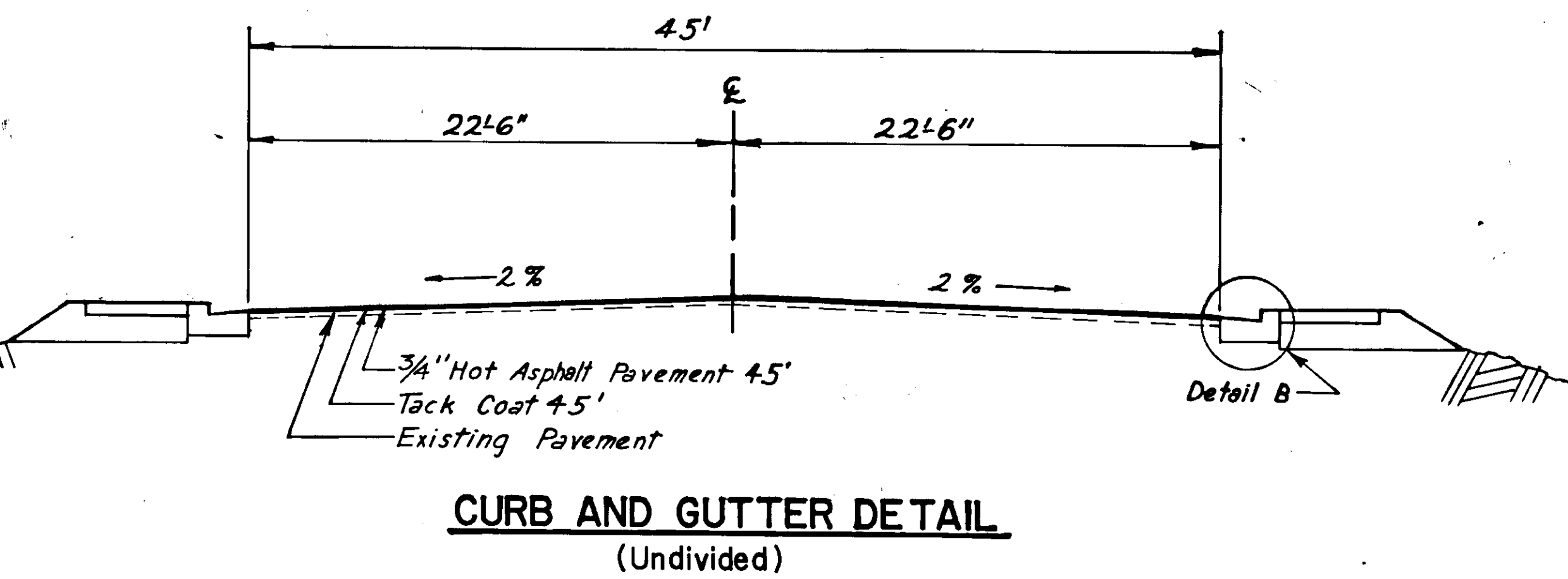
APPROVED
Charles S. Hartwick Date 5/1/79
DIRECTOR-HIGHWAY DESIGN & CONST.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(7)	1979	2	10

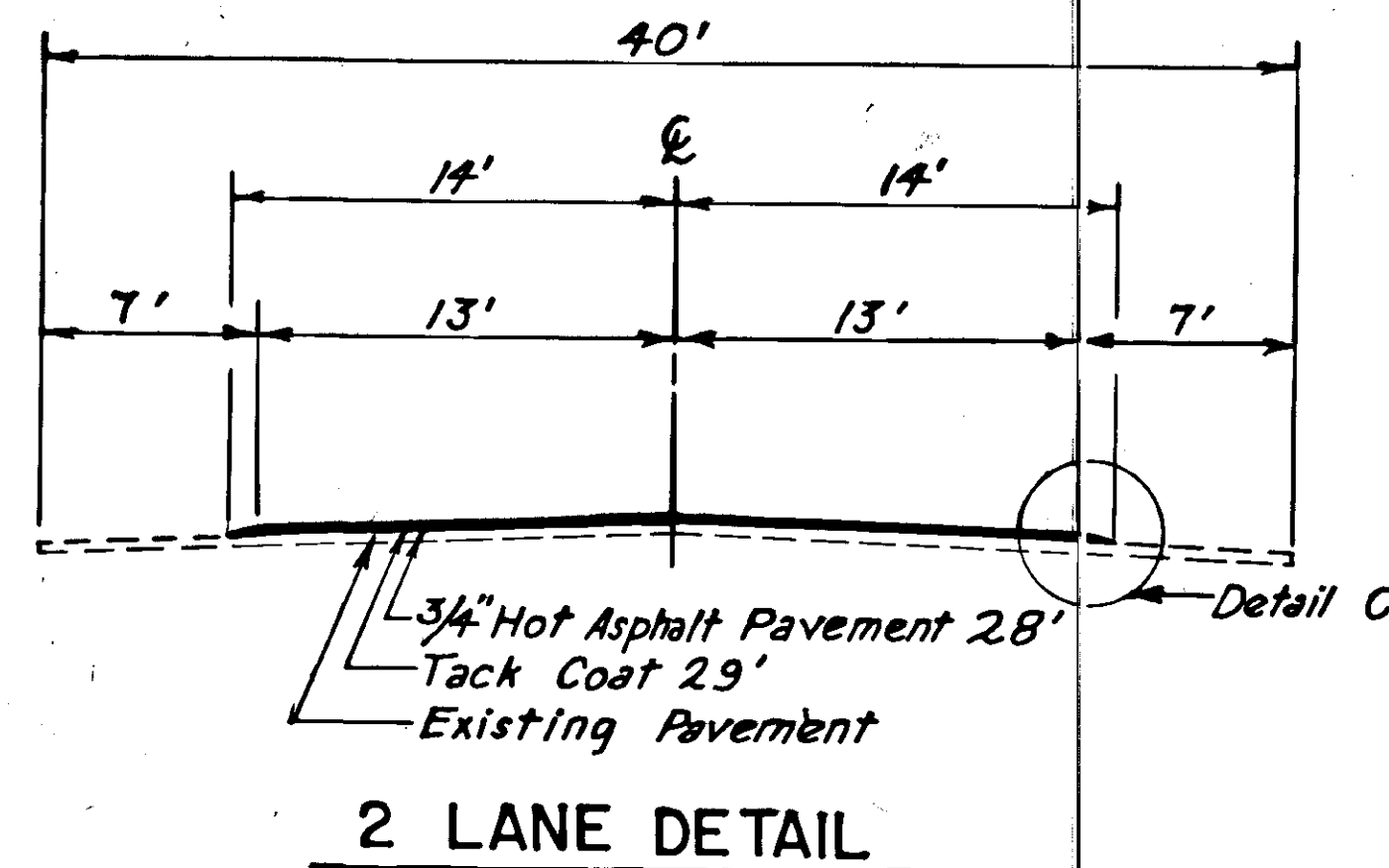
GENERAL NOTES:

- Pave all acceleration and deceleration lanes and intersections.
- All approaches and intersections shall be paved as detailed except as noted below. Transition to start at end of radius.
- At Main Street start the 10 foot pavement transition 60 feet from center line of Egan Drive.
- At 10th Avenue on the East side and at the Loop Road on both sides start the 25 foot pavement transition 1 foot beyond the traffic signal loop detectors.
- At 10th Avenue on the West side start the pavement transition one foot beyond new traffic signal loop.
- In the vicinity of Juneau Motors remove approximately 200 sq. yd. of the existing pavement as staked by the engineer and repave to the existing pavement grade prior to pavement of the new overlay. The removal of the existing pavement will be incidental to other item of work appearing in the bid schedule.
- Pavement thickness will be increased to a depth of 1 1/2" in both the North and South bound lanes in the vicinity of Sunny Point. Transition to the 1 1/2" thickness and areas requiring this thickness will be where directed by the Engineer.
- It shall be the contractors responsibility to set control points for paving, painted traffic markings and thermoplastic pavement markings from the existing lane center line stripe or curb and gutter line.
- Painted Traffic Markings and Thermoplastic Pavement Markings shall be applied in accordance with the Alaska Traffic Manual, Standard Drawings and construction specifications.
- Thermoplastic Pavement Markings shall be installed for all dashed lane center line striping, direction arrows, crosswalks, and "ONLY" markings. All of the other pavement marking shall be painted.
- At the exception on Egan Drive the transition shall start one foot North of the traffic loop for Tenth Street and at the other end it shall be in the vicinity of the end of paving completed in 1977 as directed by the engineer.
- Class C pavement shall be used for 3/4 inch pavement overlay and Class I shall be used for the 1 1/2 inch overlay.
- Removed signs called for in the plans, shall be salvaged and returned to the project engineer.
- Sign posts and brackets shall be 2 inch square, perforated, steel tube.

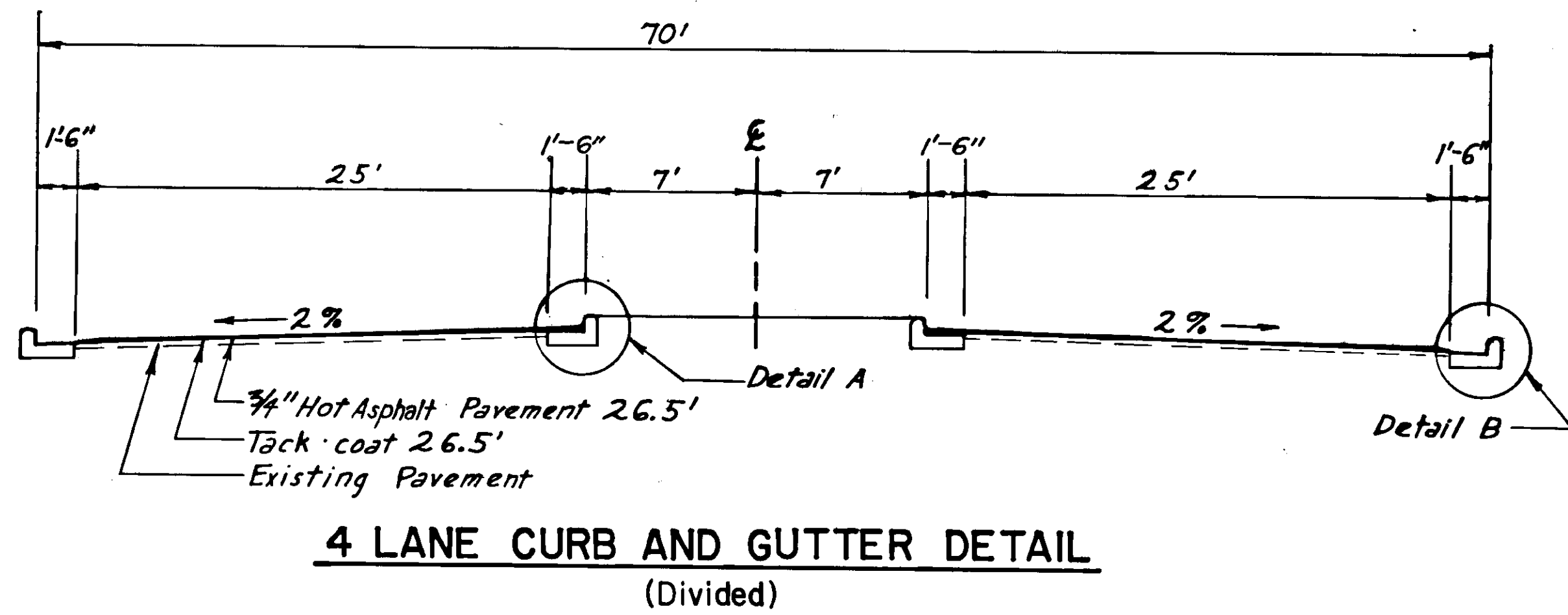
Change order #1



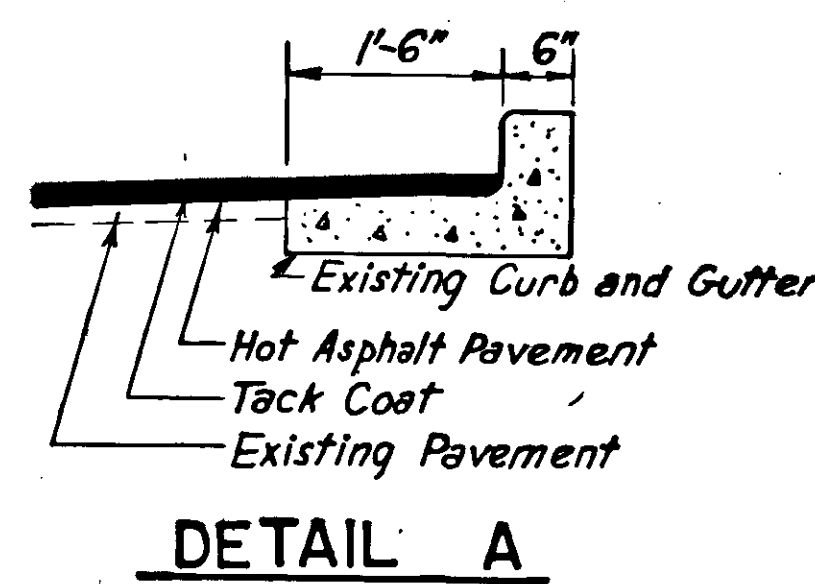
CURB AND GUTTER DETAIL
(Undivided)



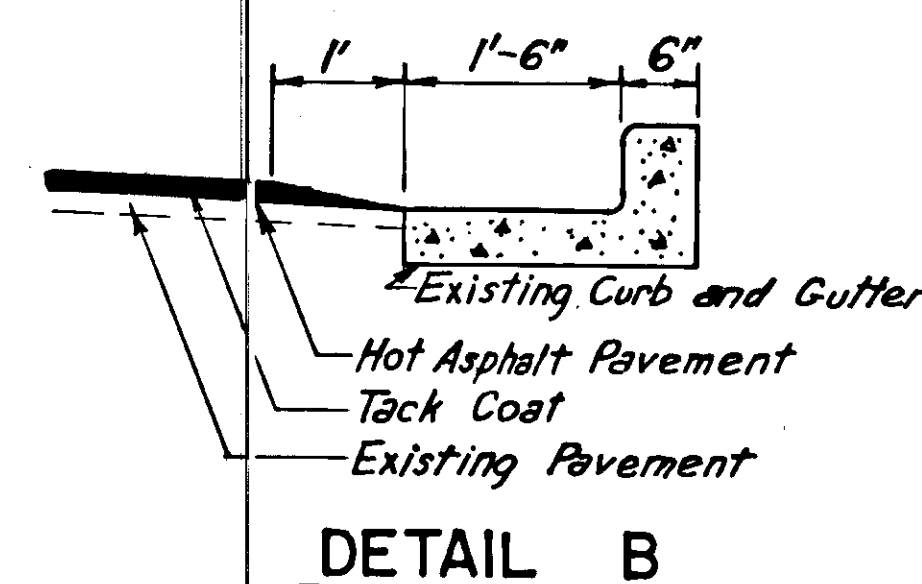
2 LANE DETAIL



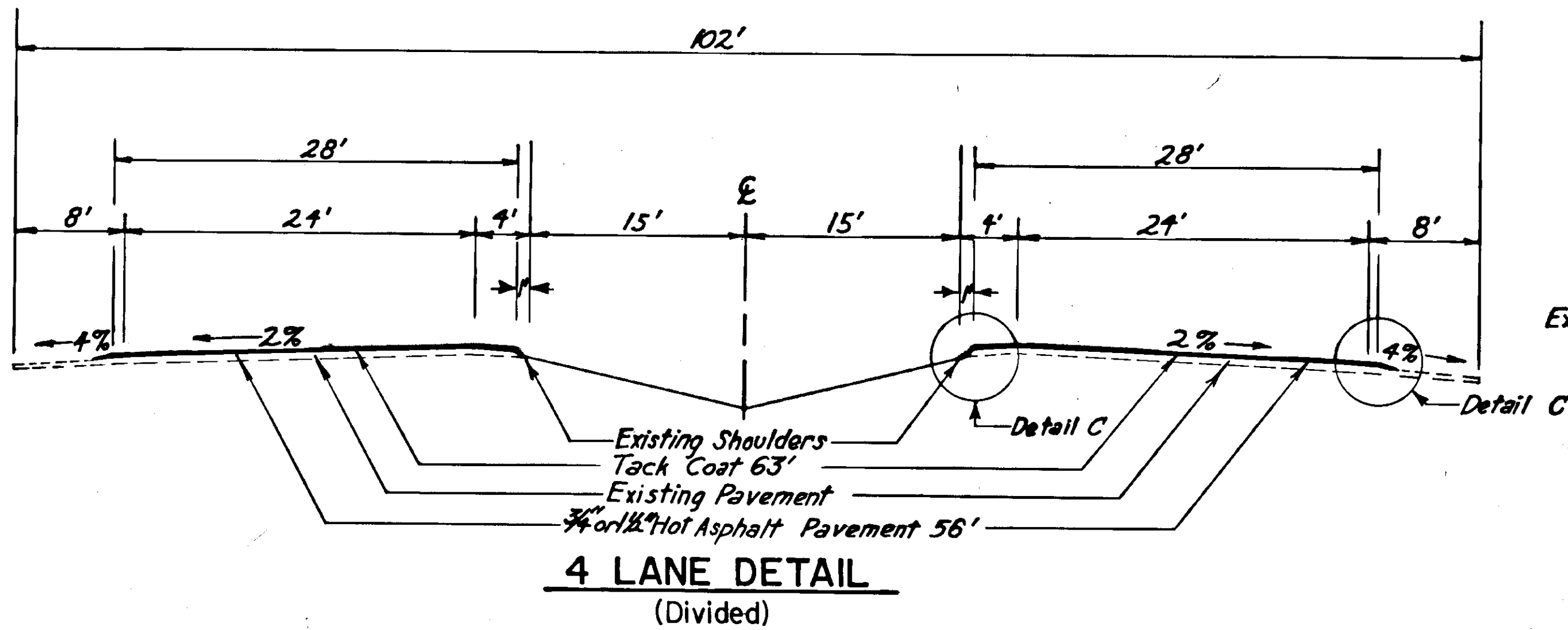
4 LANE CURB AND GUTTER DETAIL
(Divided)



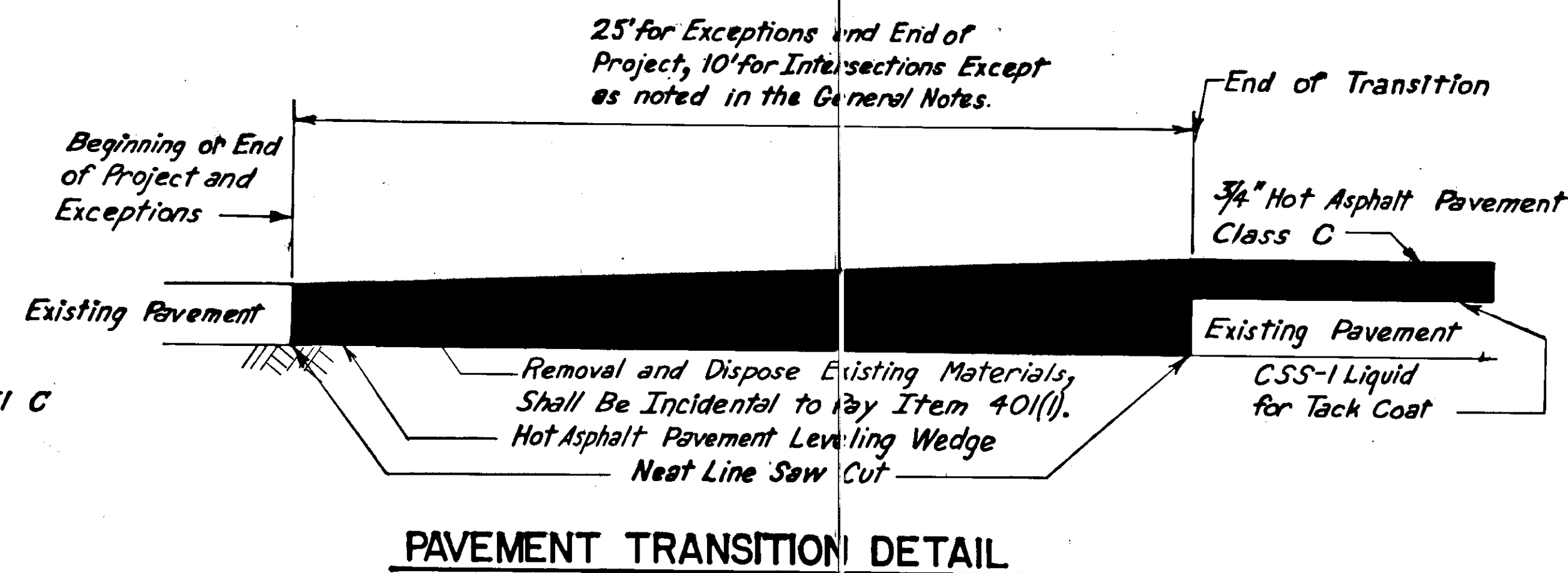
DETAIL A



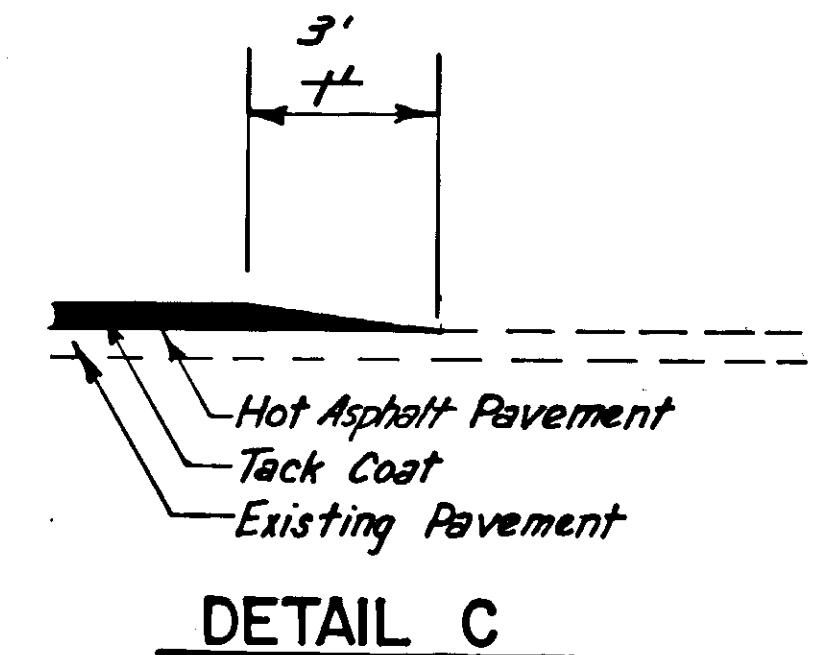
DETAIL B



4 LANE DETAIL
(Divided)



PAVEMENT TRANSITION DETAIL



DETAIL C

**SUMMARY
MONUMENT CASE ADJUSTMENT**

Franklin to Main Street - Outer Drive Phase III		
As Built Sta.	Location	Remarks
78+52.83	℄	
79+10.00	℄	
79+36.00	2.5 Lt.	Non Existant
80+48.66	℄	
	℄	Main Street
Tenth Street to Main Street - Outer Drive Phase II		
43+00	℄	2 Monuments - Tenth Street
47+25	℄	8th. Street
47+63	℄	
53+61	℄	Street to Federal Bldg.
66+88	℄	Whittier Street
73+30	6 Lt.	Willoughby Deleted
73+95	10 Lt.	"
77+55	8 Rt.	"
77+75	16 Rt.	"
Norway Point to 7.1 Mile		
67+10	℄	Connection to Old Glacier Hwy.
102+14.57	℄	Connection to Channel Marine
P. O. C. 118+70.47	℄	Old Glacier Hwy.
197+50.16	℄	Lemon Creek Loop South End
261+64.49	℄	" " " North "
331+82.53	℄	Connection to Old Hwy.
7.1 Mile to Brotherhood Bridge		
393+81.12	℄	Loop Road
414+38.07		P. C. Curve
419+55.15		P. T. Curve
Total Monument Adjustments -22 / 19		

OVERLAY TABLE

MILAGE		LANE		OVERLAY THICKNESS
To	From	North-bound	South-bound	
0.3	1.2	X	X	3/4"
1.8	6.6	X	X	3/4"
6.6	8.2	X	X	1 1/2"
8.2	9.9	X	X	3/4"

**TRAFFIC SIGNAL
JUNCTION BOX ADJUSTMENT**

As Built Sta.	Location	Remarks
43+14	50 Lt.	10th Street

**SUMMARY
MANHOLE ADJUSTMENT**

Franklin to Main Street - Outer Drive Phase III		
As Built Sta.	Location	Remarks
79+27	0.5 Lt.	
80+07	16.5 Rt.	
80+65	14 Lt.	
80+81	17 Rt.	
80+91	1 Lt.	
80+94	10 Rt.	2 in Diversion Structure
43+00	150 Rt.	
Tenth Street to Main Street - Outer Drive Phase II		
43+14	90 Lt.	10th Street
43+14	40 Lt.	10th Street
73+50	22 Lt.	Willoughby Street
73+75	27 Lt.	Willoughby
74+67	4 Rt.	2 in Diversion Structure Deleted
74+70	15 Lt.	
77+35	10 Rt.	
78+25	10.5 Rt.	
Norway Point to 7.1 mile		
13+75	13 Rt.	Southbound Lane Deleted
16+50	3 Lt.	Northbound Lane
Total Manhole Adjustments -18 / 12		

**SUMMARY
VALVE BOX ADJUSTMENT**

Franklin to Main Street - Outer Drive Phase III		
As Built Sta.	Location	Remarks
79+35	20 Rt.	
Tenth Street to Main Street - Outer Drive Phase II		
66+65	32 Rt.	Whittier Street
66+68	28 Rt.	" "
66+86	42 Rt.	" "
73+40	56 Lt.	Willoughby Street
74+80	18 Rt.	" "
74+67	3 Rt.	" "
78+67	2 Lt.	" "
Total Valve Box Adjustment -8 / 6		

Add 1 (Approach to bridge)
42+90 10th Street

ESTIMATE OF QUANTITIES

Item No.	Item	Unit	Project Total
1	Furnishing and Maintaining Engineering Facilities	L. S.	All Req'd
110(1)	Mobilization	L. S.	All Req'd
111(1)	Temporary Erosion and Pollution Control	C. S.	All Req'd
113(1)	Flagging	Man Hour	All Req'd
115(1)	Traffic Maintenance	L. S.	All Req'd
202(10)	Removal and Reconstruction of Traffic Island	L. S.	All Req'd
401(1A)	Hot Asphalt Pavement Class C	Ton	11,500 / 1,959
401(1B)	Hot Asphalt Pavement Class I	Ton	4,820 / 5012
401(2)	AC-5 Asphalt Cement	Ton	1,040 / 1,097
401(4)	Anti-Stripping Additive	C. S.	All Req'd
402(3)	Emulsified Asphalt for Tack Coat Type CSS-1	L. S.	All Req'd
604(4)	Adjust Existing Manholes	Each	18 / 12
614(3)	Adjust Monuments	Each	22 / 19
628(11)	Adjust Valve Boxes	Each	8 / 6
660(9)	State Traffic Loop System Complete	L. S.	All Req'd
660(10)	Adjust Junction Box	Each	1
660(11)	Remove & Relocate Traffic Signal	L. S.	All Req'd
670(1)	Painted Traffic Markings	L. S.	All Req'd
670(6)	Thermoplastic Pavement Markings - Type A	L. S.	All Req'd
684(1)	State Furnished 4' Rigid Steel Conduit	Lin. Ft.	528
615(1)	Standard Sign	S. F.	36.5 / 38.5

BASIS OF ESTIMATE

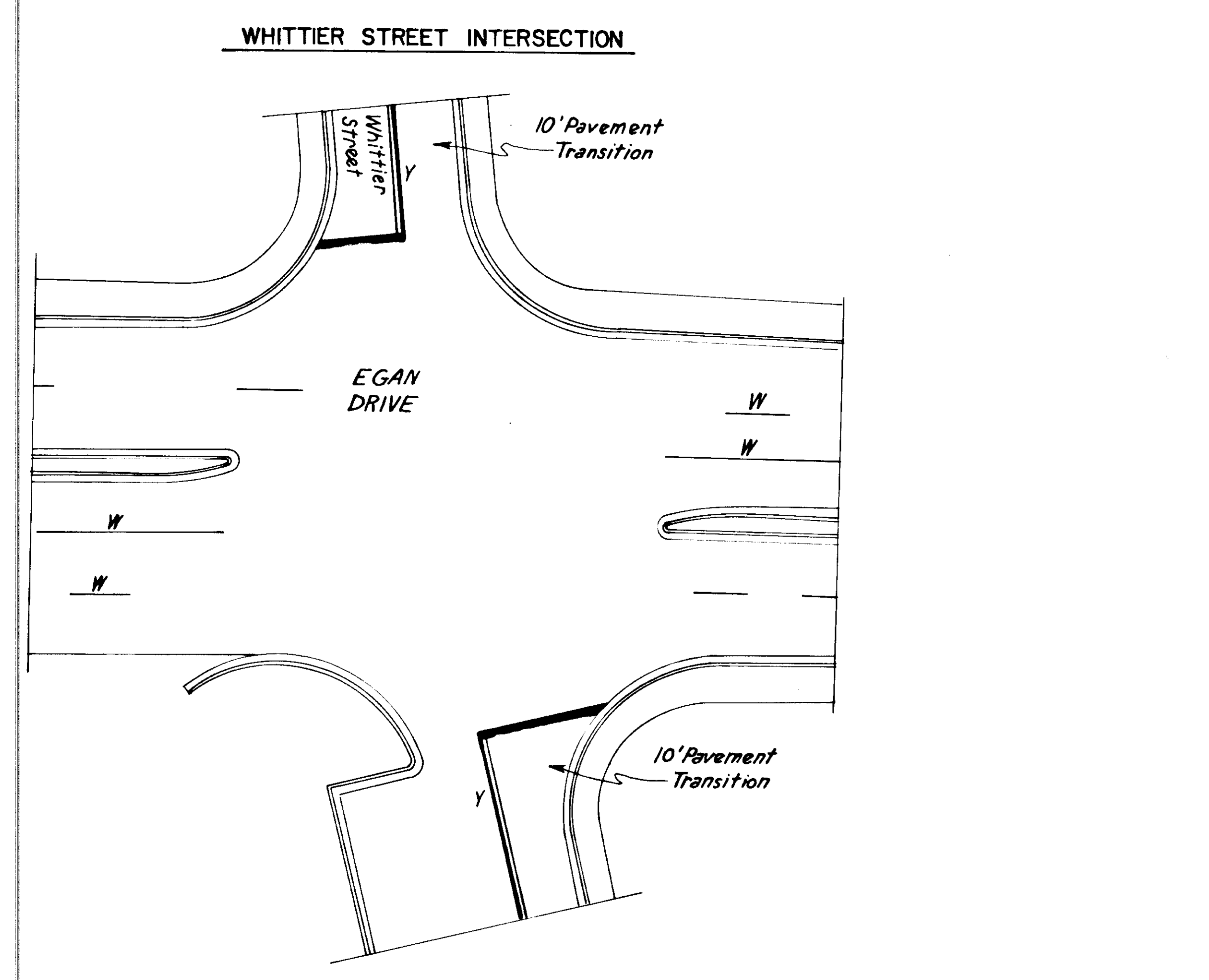
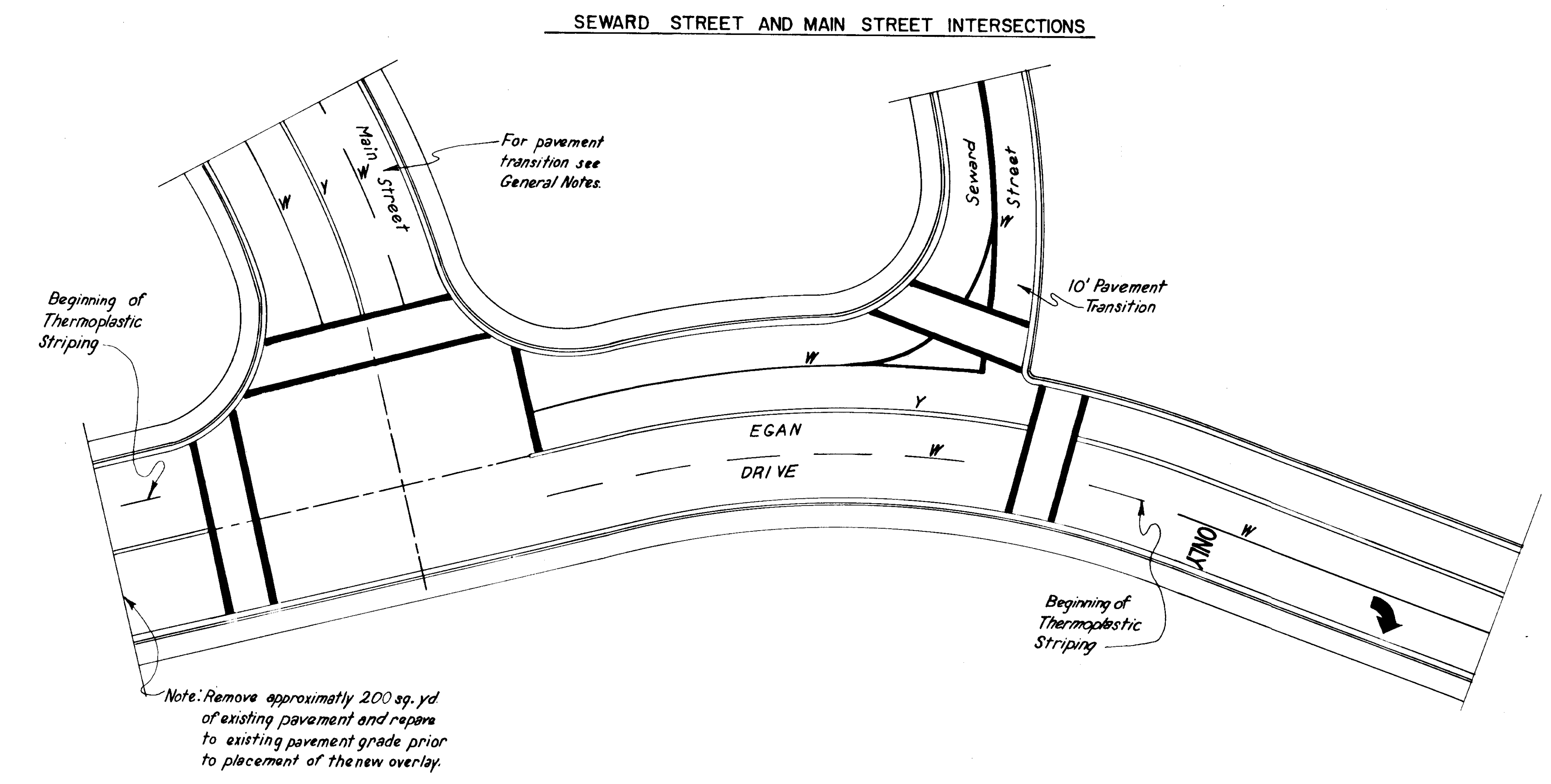
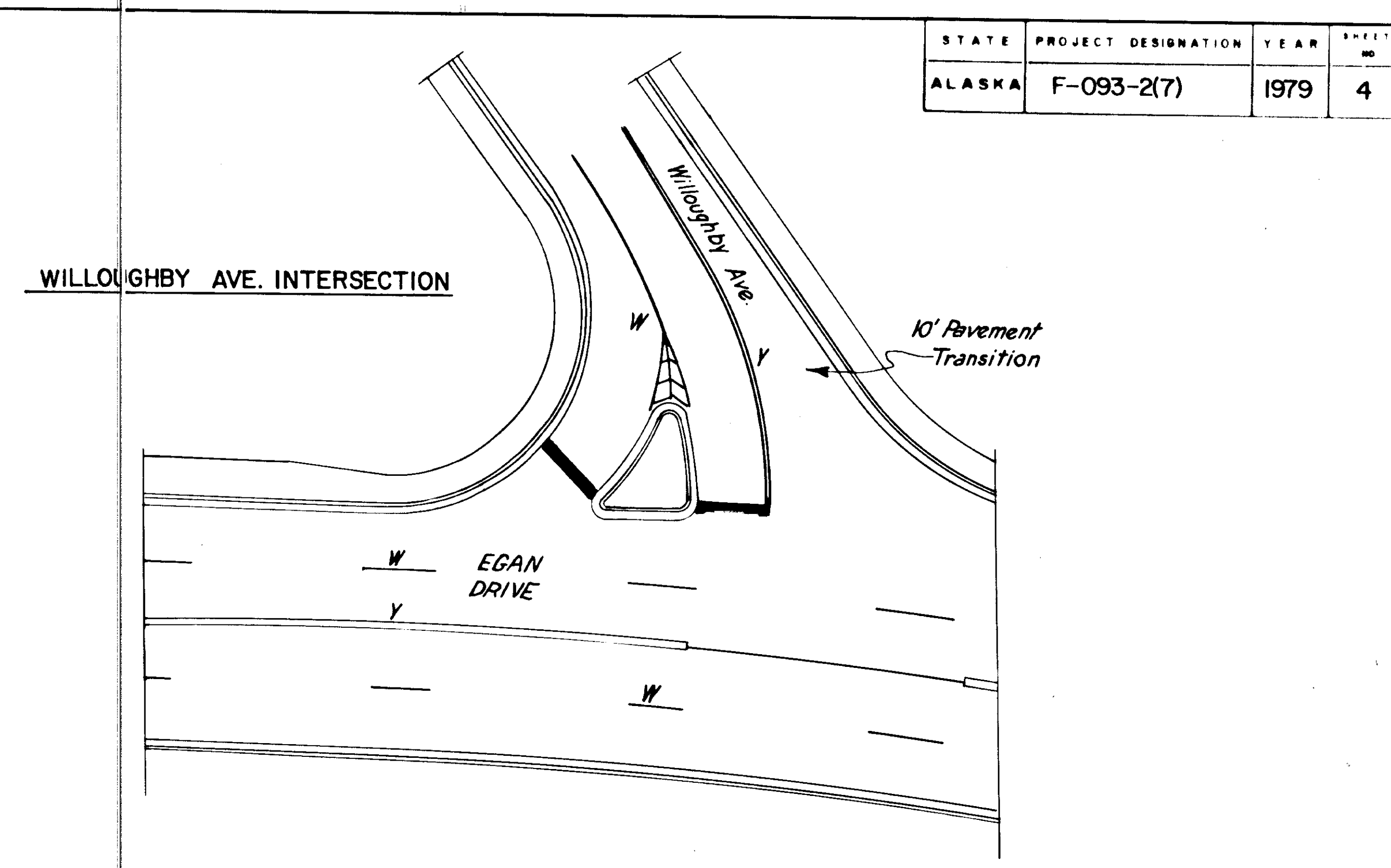
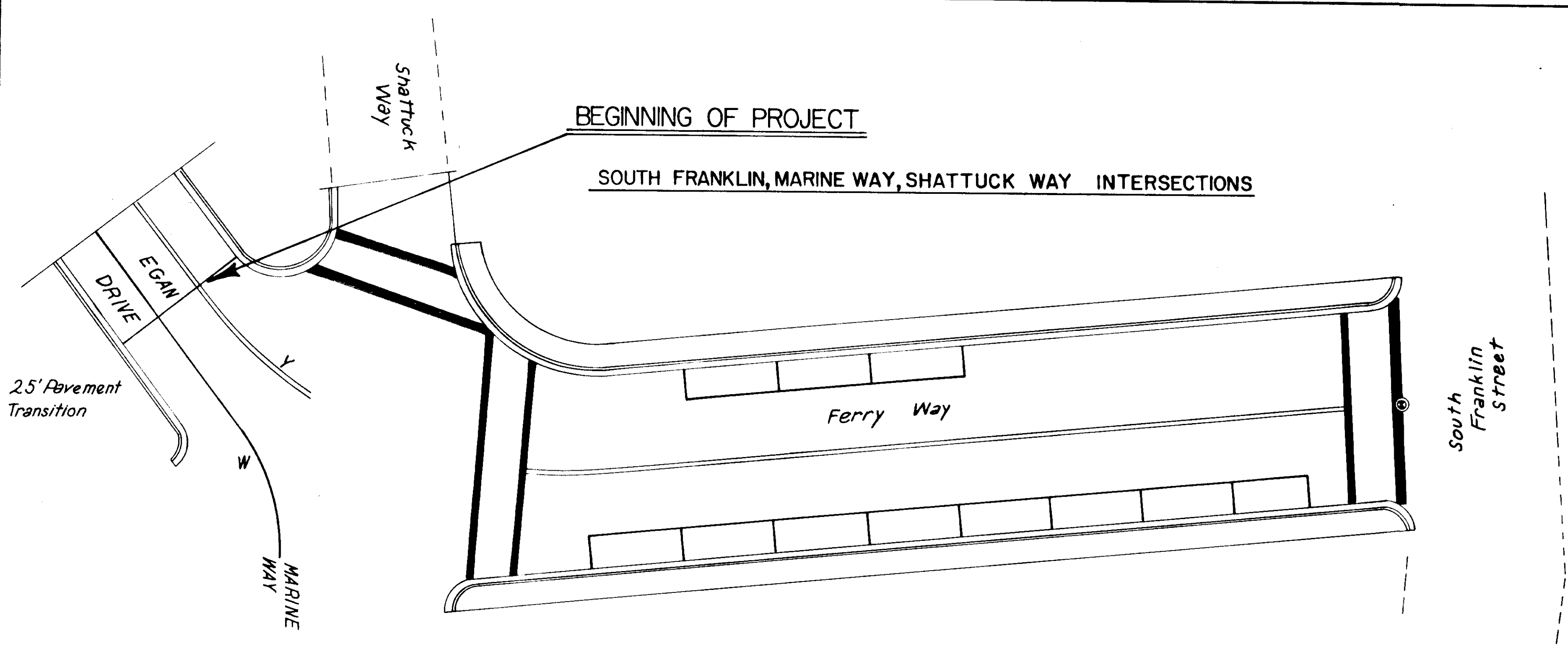
Item	Factor
401(1)	112 lbs. / Sq. Yd. In. Depth
401(2)	7% of Item No. 401(1) for Type C 6% of Item No. 401(1) for Type I
*402(2)	0.08 Gal. / Sq. Yd. 253 Gal. / Ton *Estimated 10 Tons Contract Quantity

SIGN SUMMARY

"As Bilt." Sta.	Type	Size	Legend	Posts	Comments
32+00 R	-	-	Reverse Curve-45 MPH	-	Remove Signs and Posts
112+60 R	D7-15R	30x36	Phone Symbol	1	Mount alongside existing hospital sign and bracket new post to existing post.
126+00 L	D7-15L	30x36	Phone Symbol	1	"
130+00 L	-	-	Phone	-	Remove signs and post*
178+00 L&R	-	-	Speed Limit 55	-	Relocate both speed limit signs and posts 200* feet south.
394+00 L	R3-5L	30x36	Left Only Symbol	-	Remove "Left Lane Must Turn Left" and install new sign on signal mast arm.
400+00 L	W3-3	48x48	Signal Ahead w/plaque	-	Replace existing sign

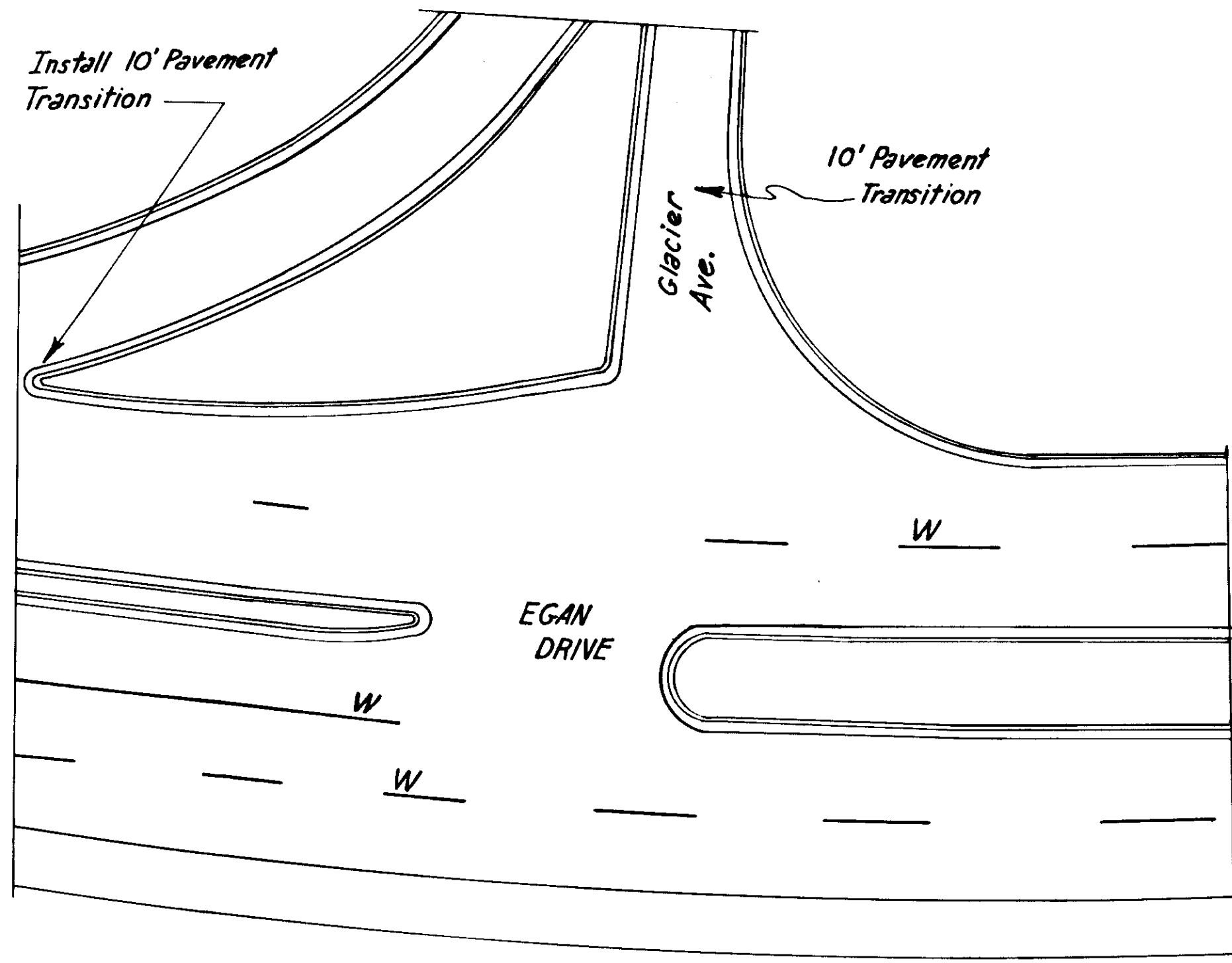
*Incidental to Item 615(1)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	F-093-2(7)	1979	4

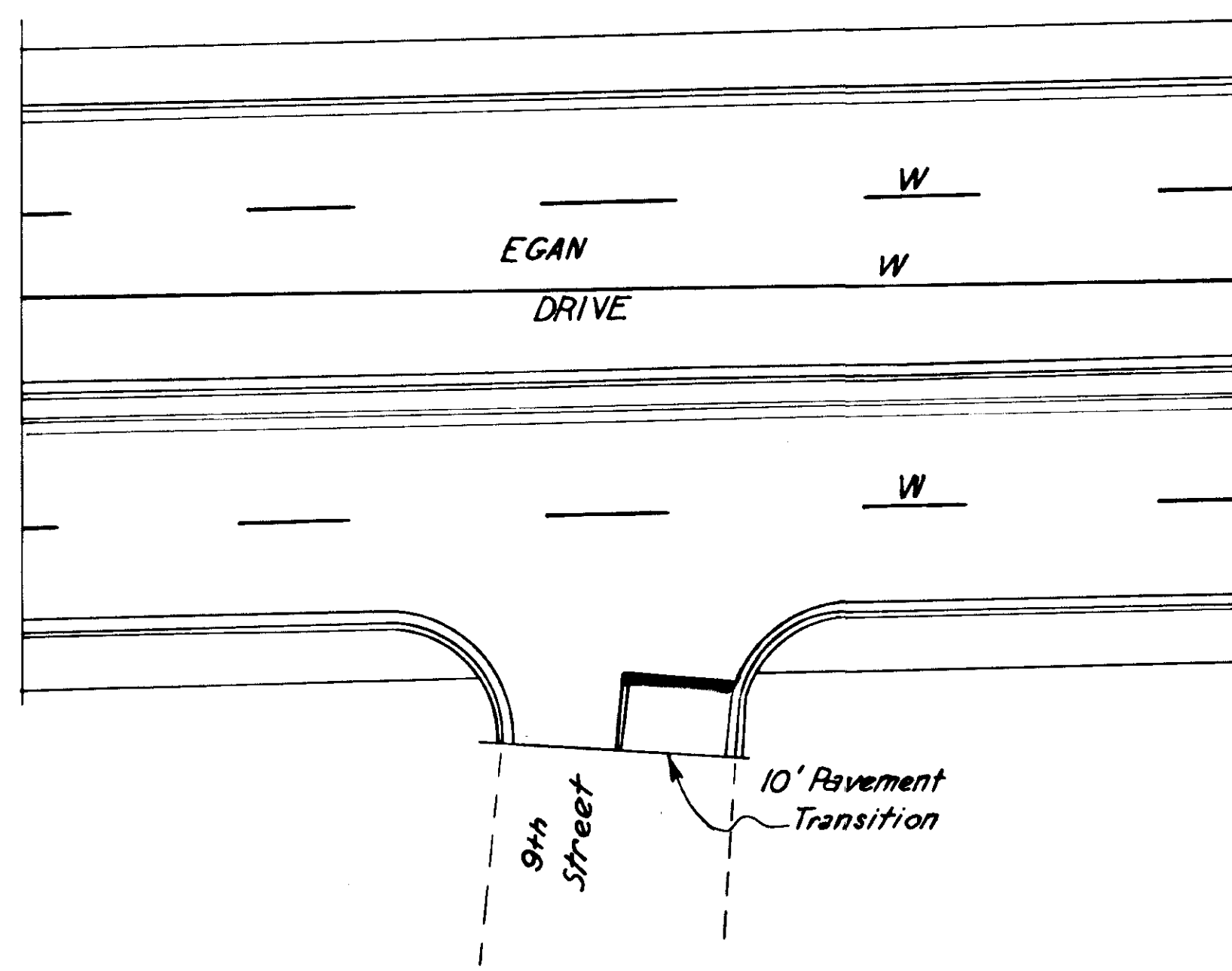


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ALASKA	F-093-2(7)	1979	5	10

GLACIER AVE. INTERSECTION

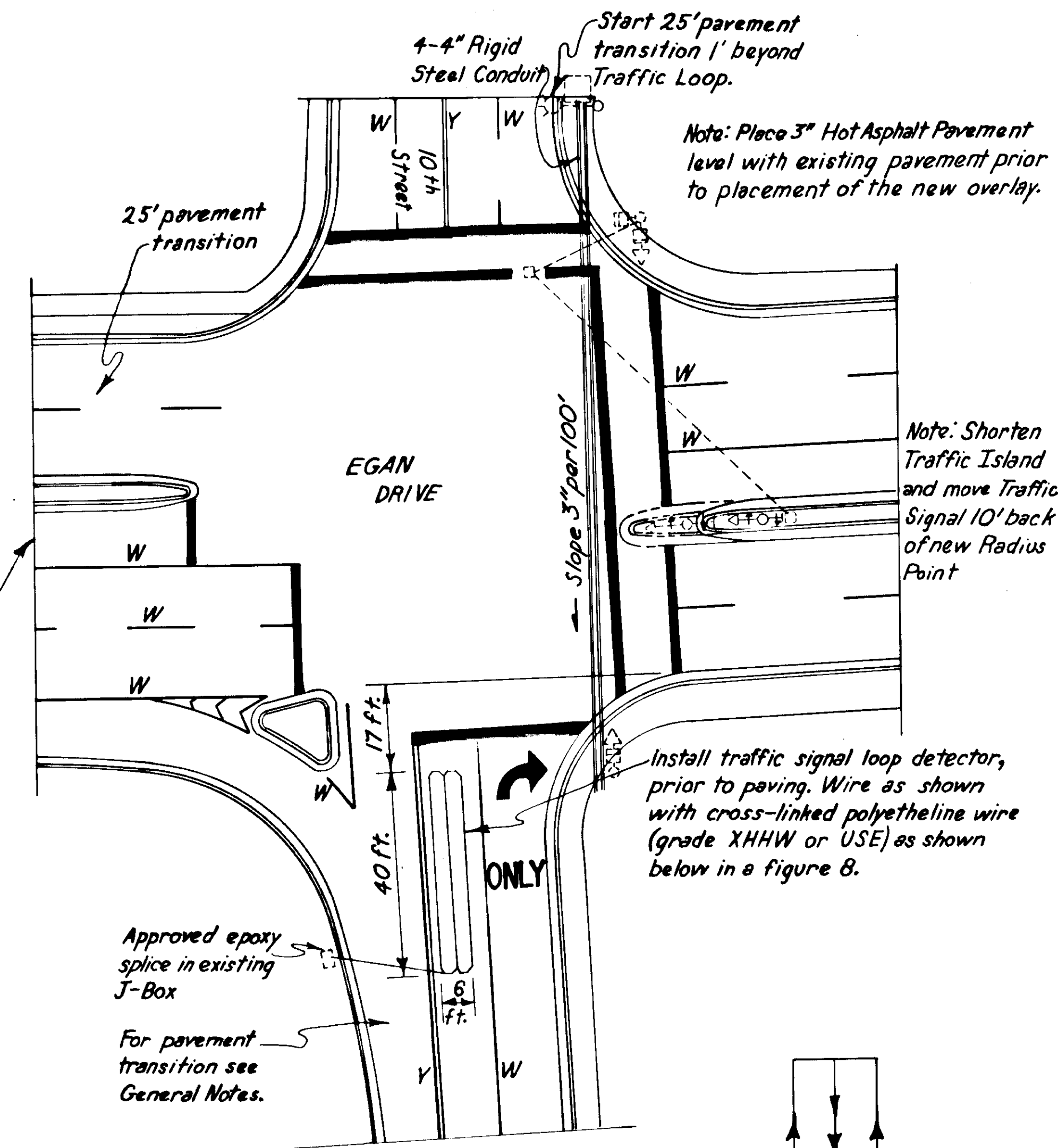


9th STREET INTERSECTION



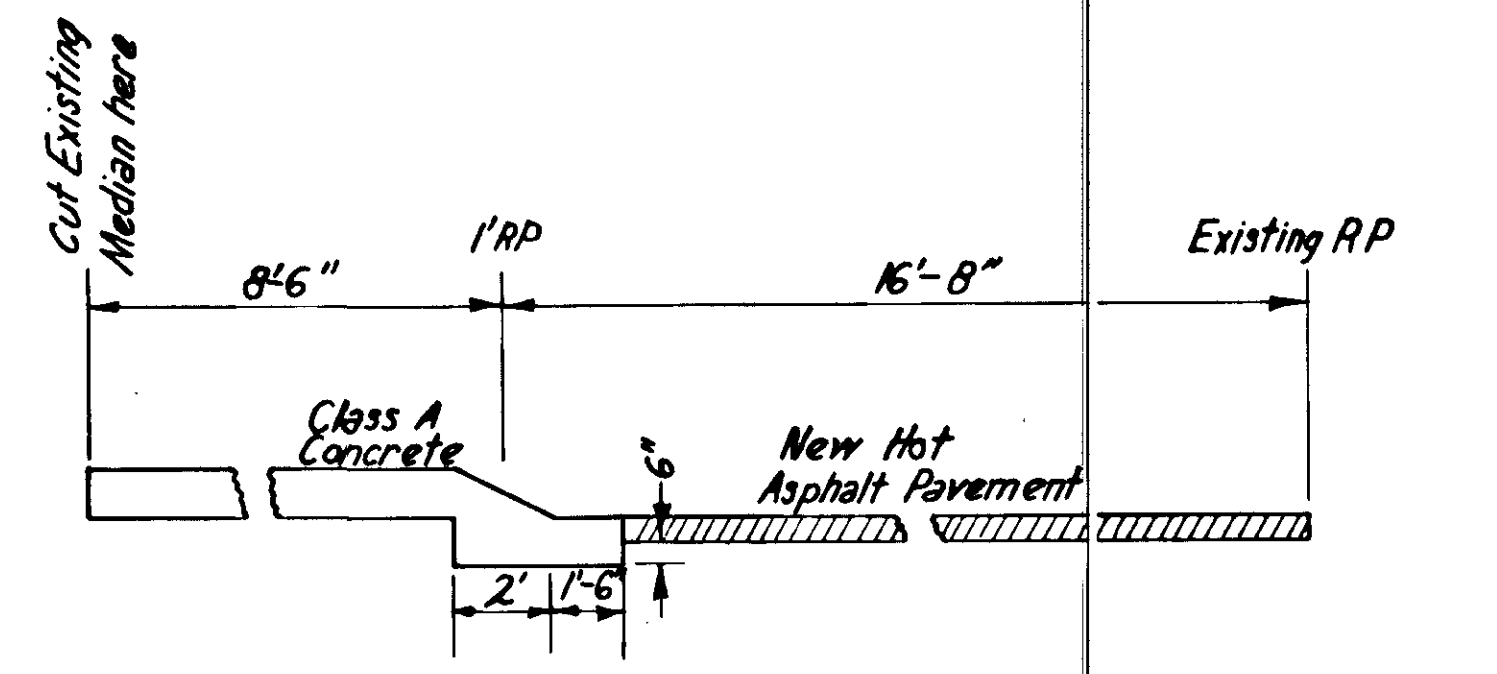
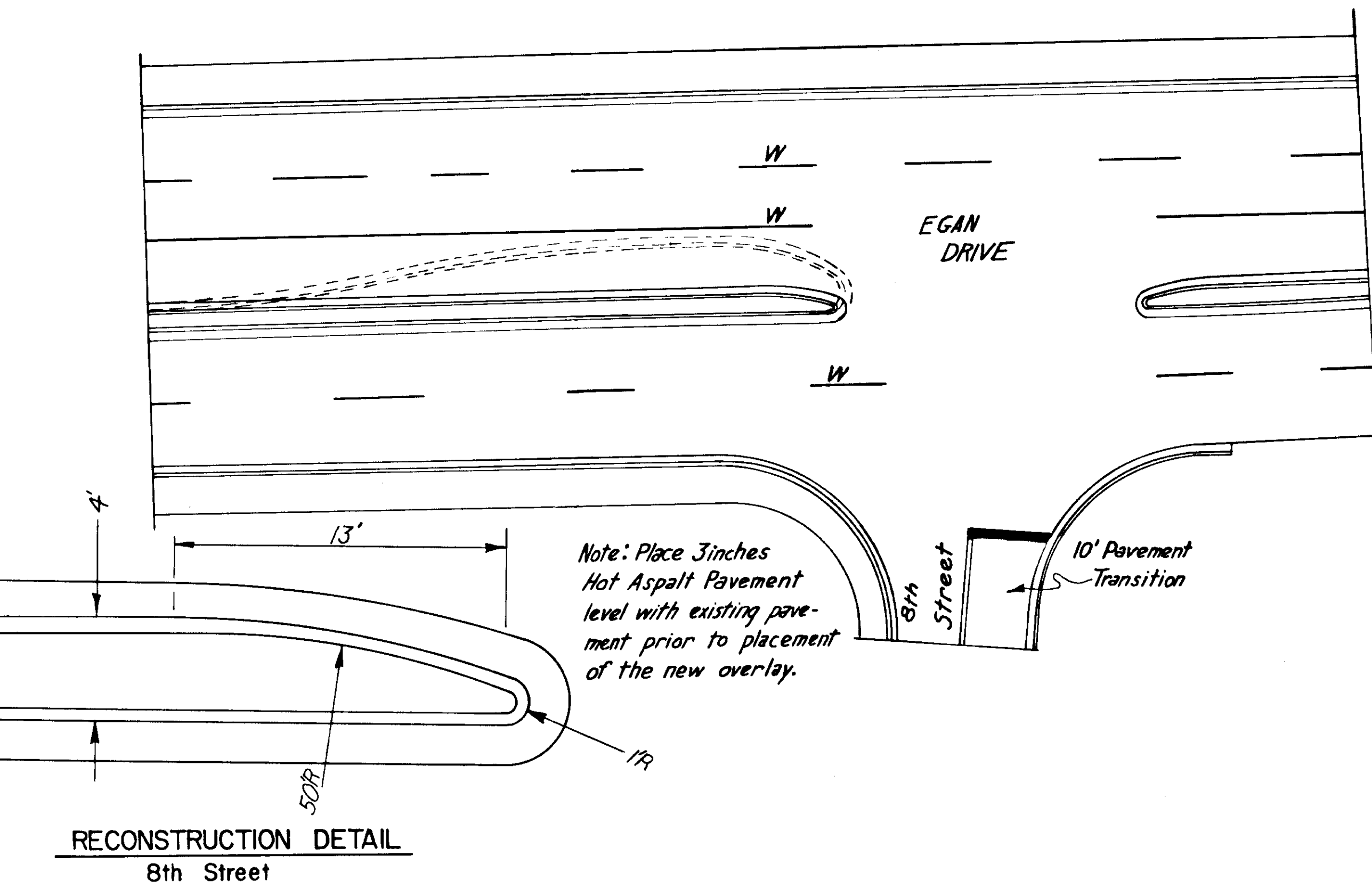
10th STREET INTERSECTION

Traffic Loop, Removal & Reconstruction of Traffic Island, 4-4" Rigid Steel Conduits, Removal & Relocate Traffic Signal and Adjustment of Junction Box



8th STREET INTERSECTION

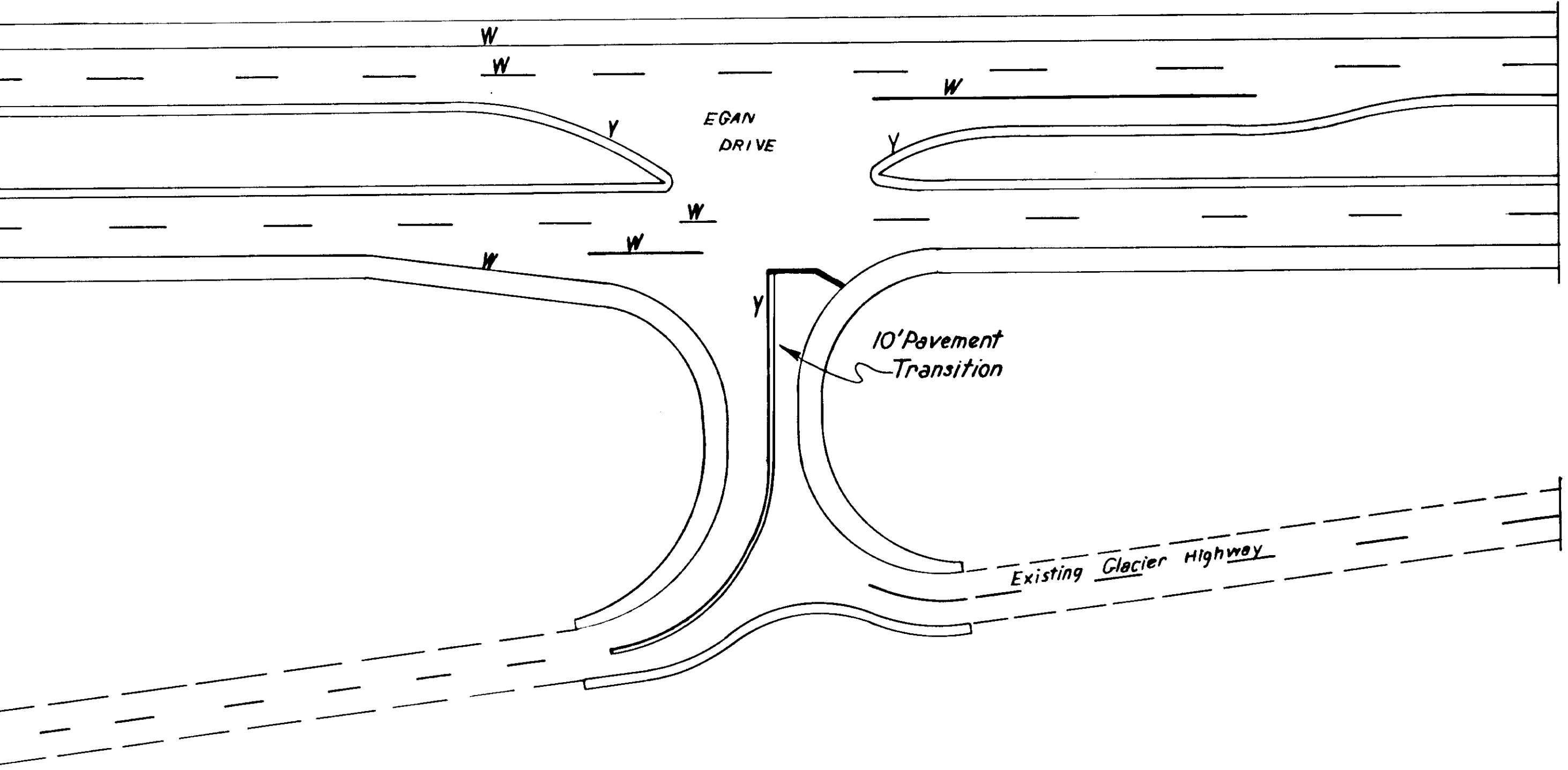
Traffic Island Removal & Reconstruction



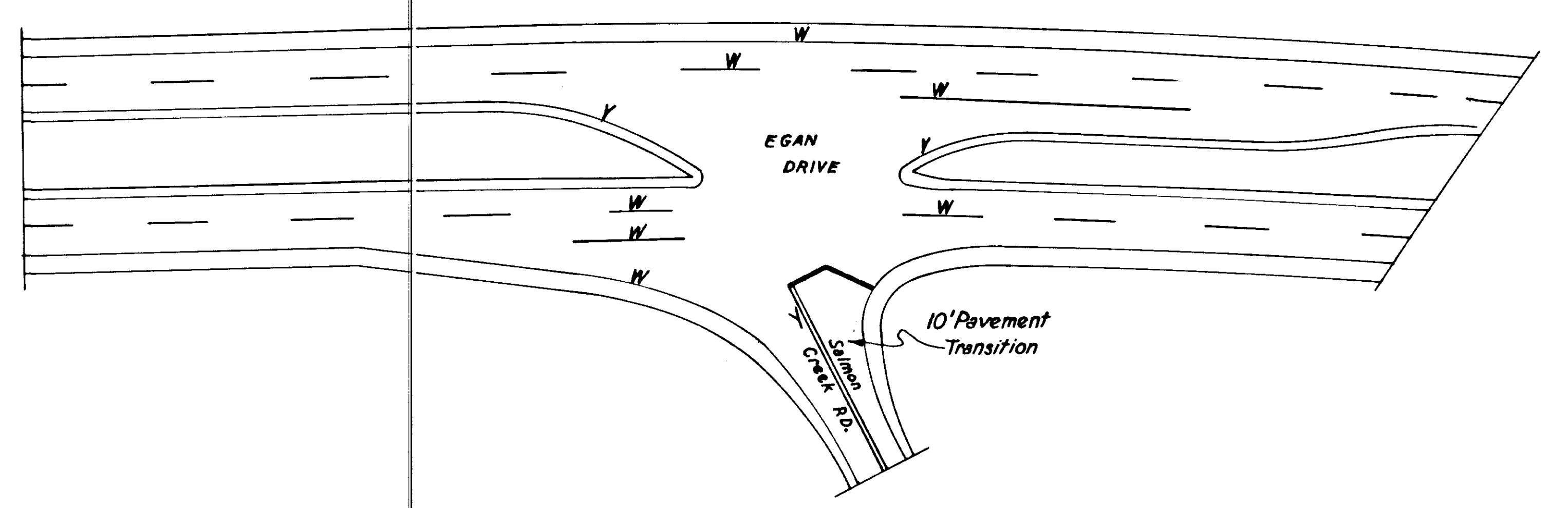
MOUNTABLE CURB DETAIL
10th Street Section A-A

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(7)	1979	6	10

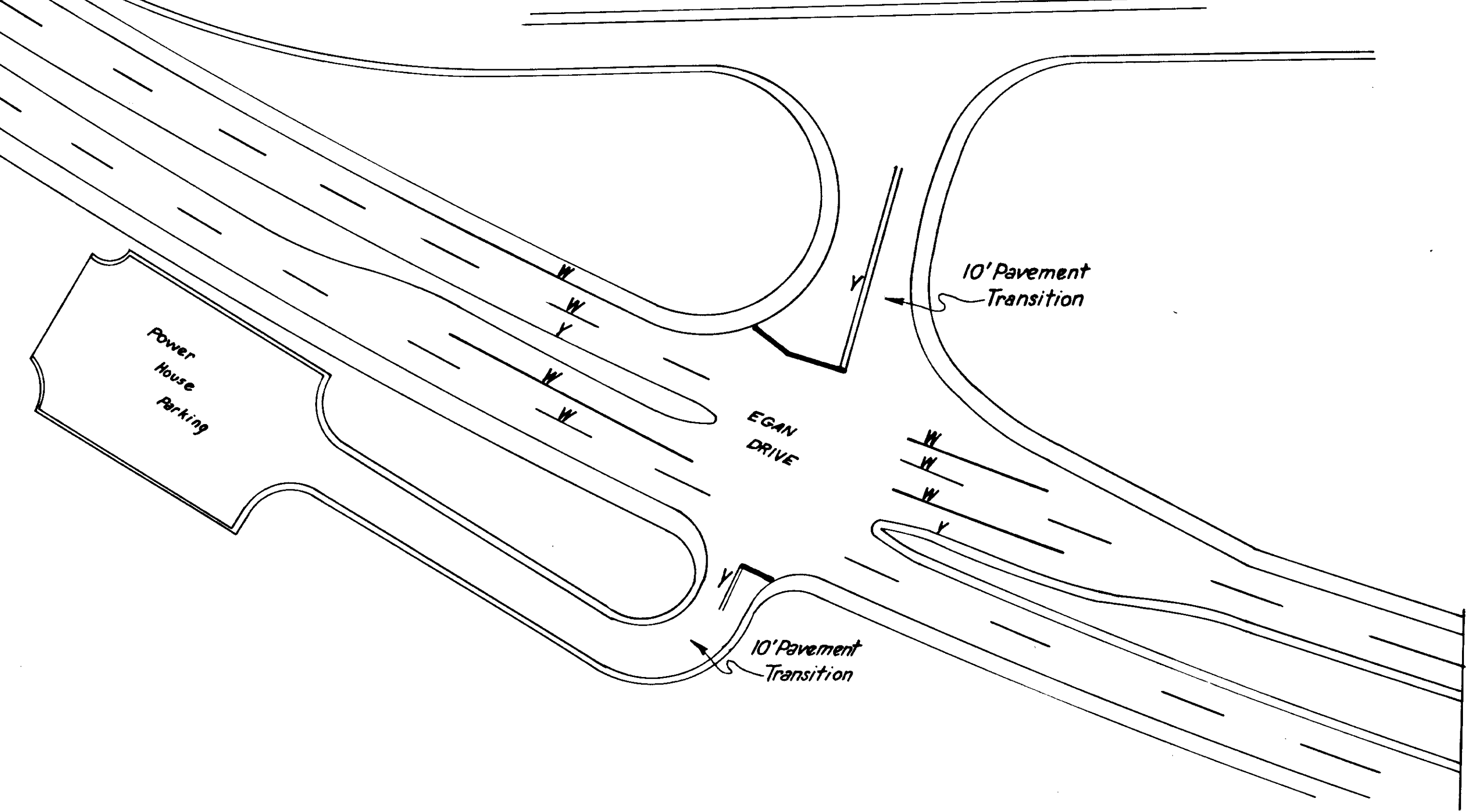
GLACIER HIGHWAY INTERSECTION



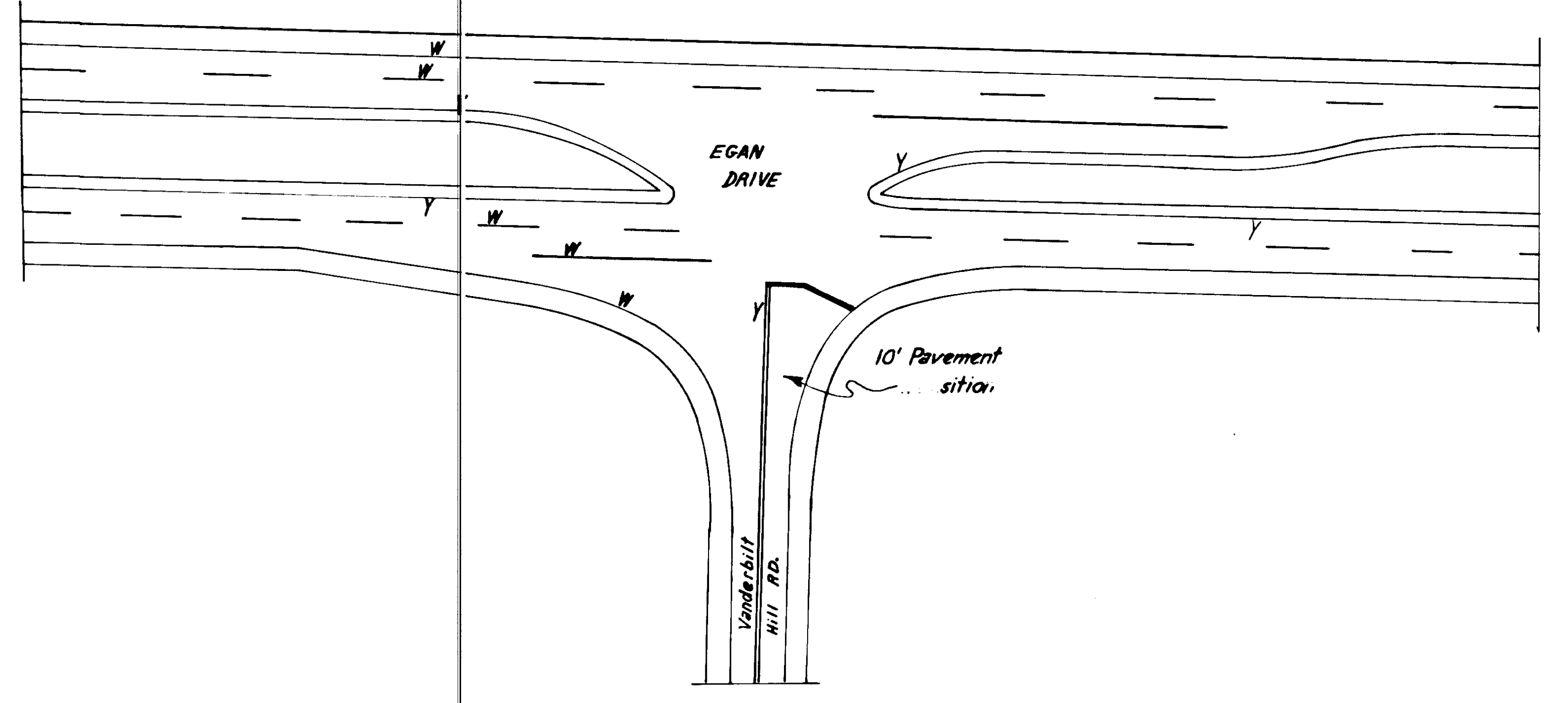
SALMON CREEK INTERSECTION



POWER HOUSE INTERSECTION

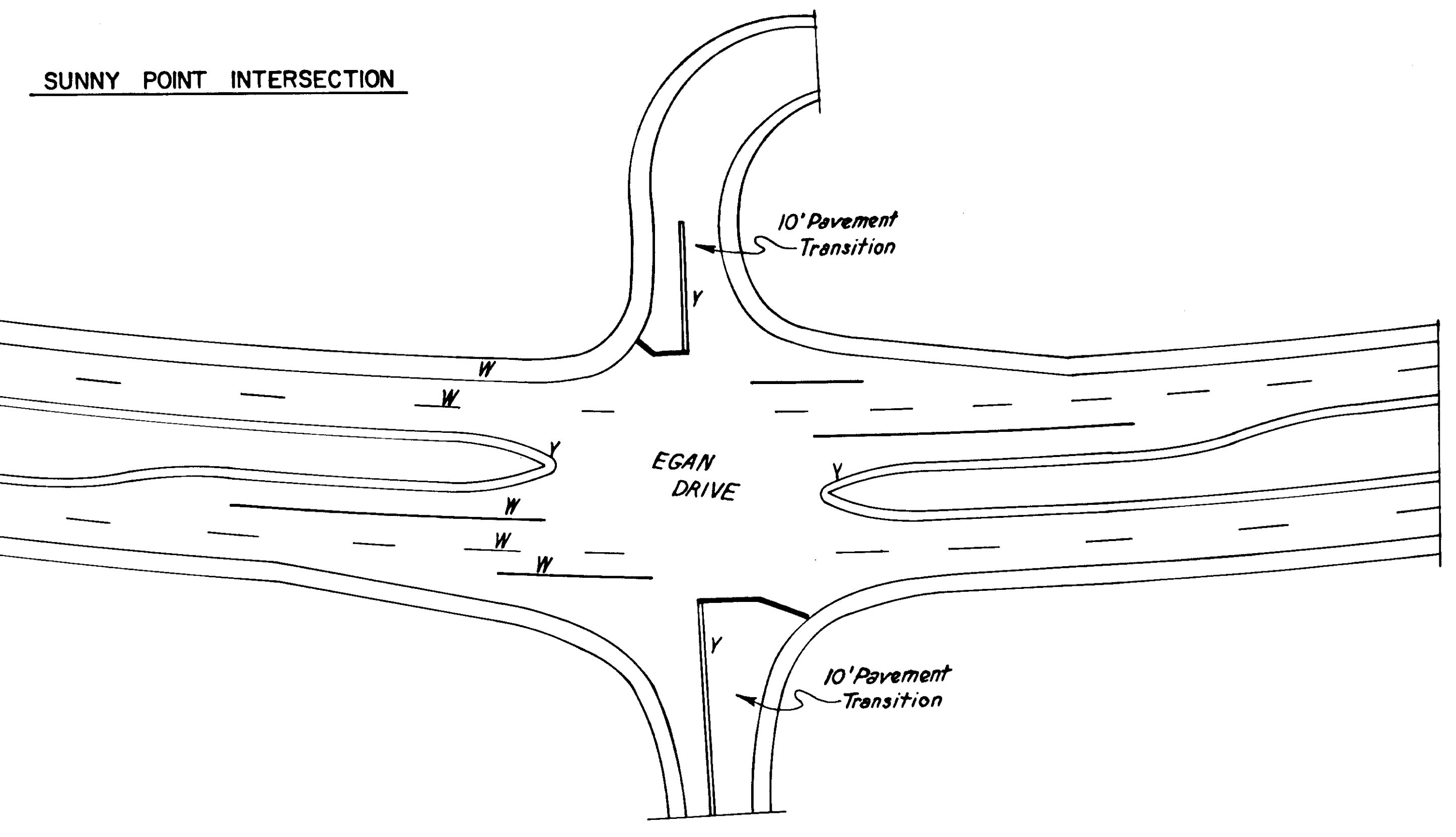


VANDERBILT HILL INTERSECTION

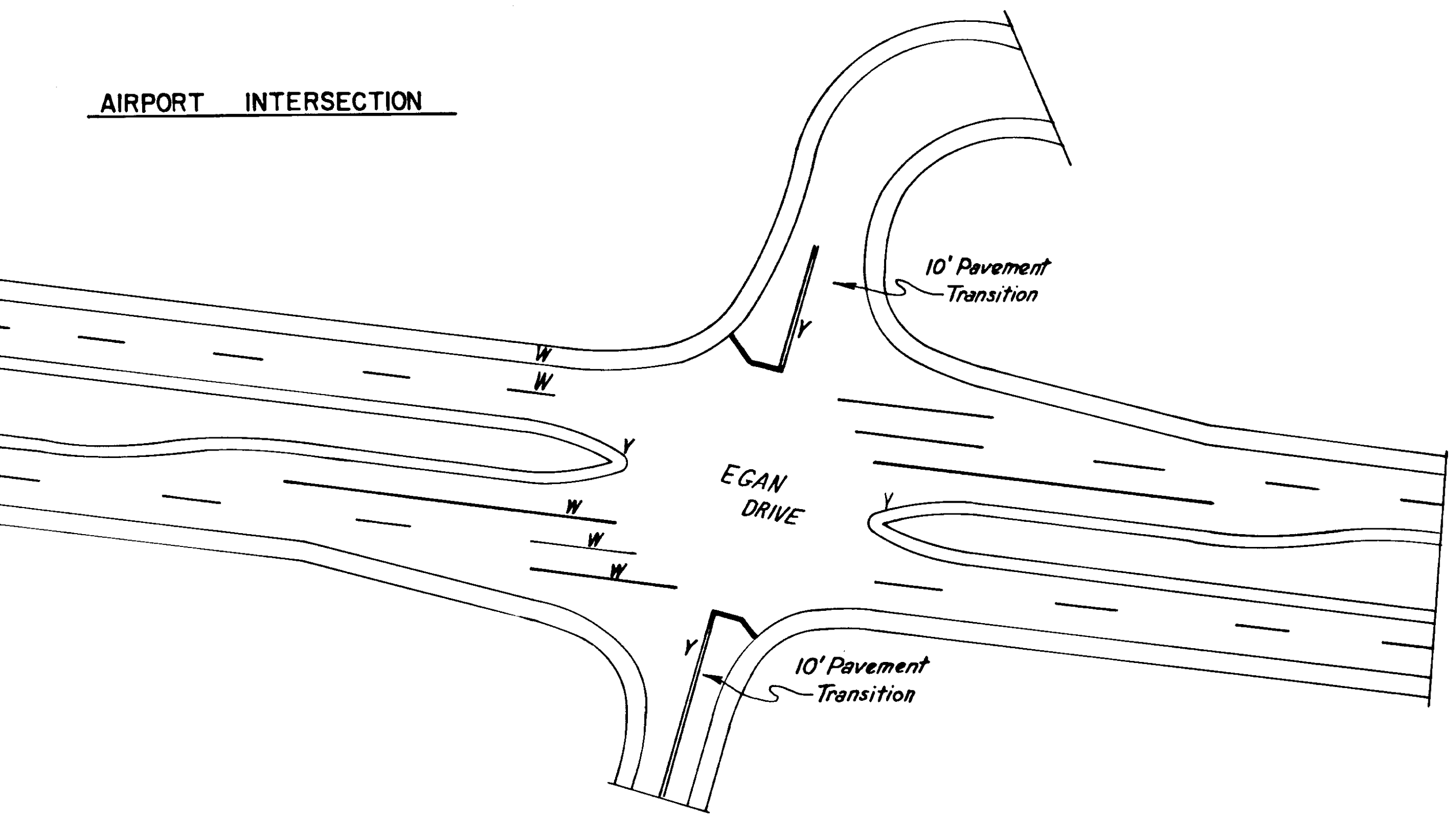


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ALASKA	F-093-2(7)	1979	7	10

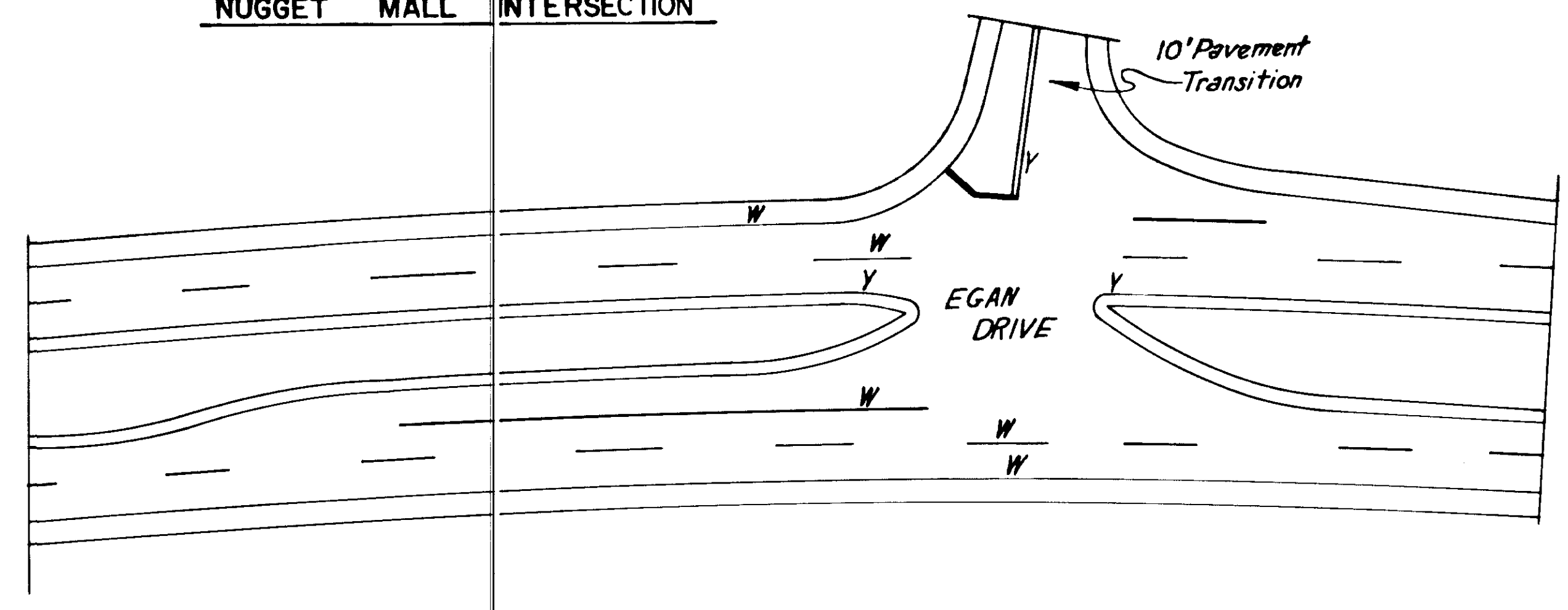
SUNNY POINT INTERSECTION



AIRPORT INTERSECTION

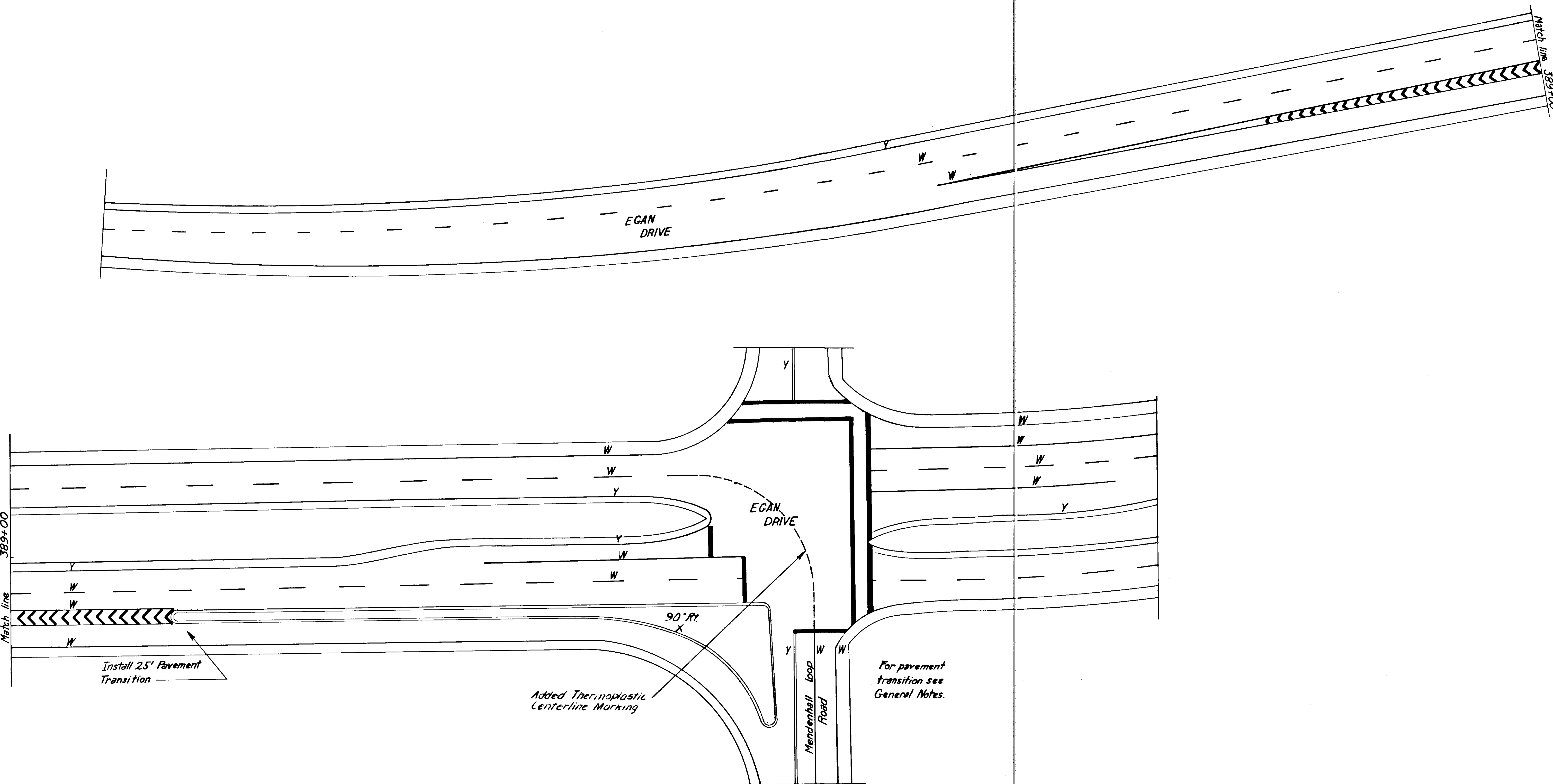


NUGGET MALL INTERSECTION



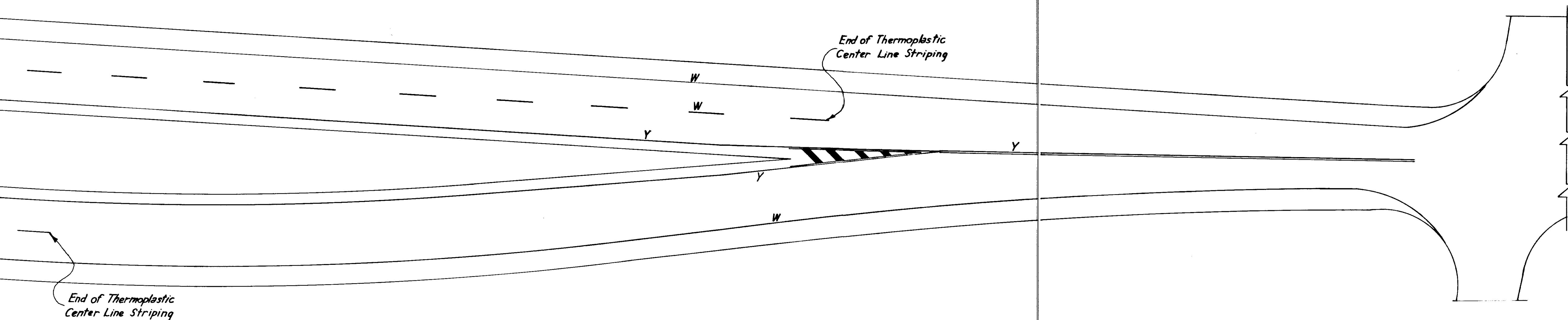
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-2(7)	1979	8	10

LOOP ROAD INTERSECTION

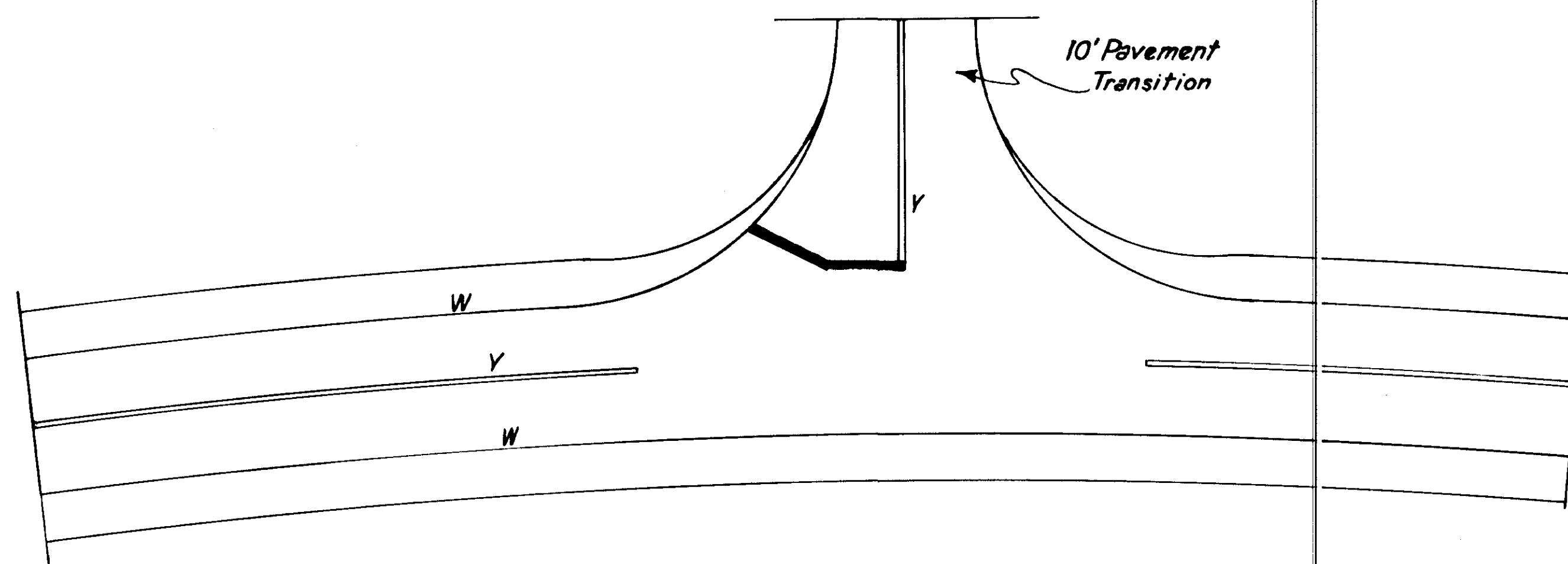


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ALASKA	F-093-2(7)	1979	9	10

TRANSITION BETWEEN LOOP ROAD AND OLD HIGHWAY INTERSECTIONS

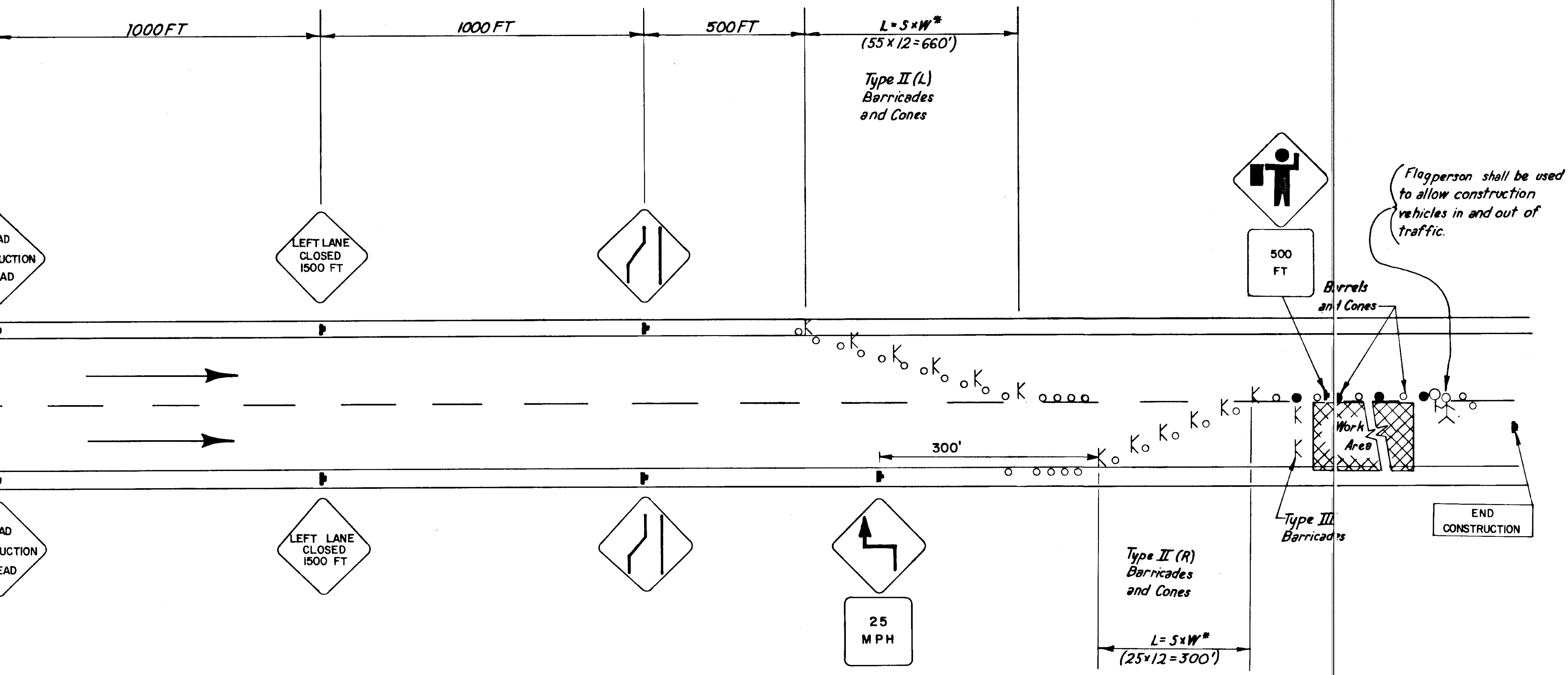


OLD HIGHWAY INTERSECTION



STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	F-093-2(7)	1979	10	10

A TYPICAL LANE CLOSED PLAN



L= Length
 S= approach 85 percentile speed
 W= offset width

Traffic Control Plan General Notes:

1. 2- lane traffic shall be maintained from 7:00 AM to 9:00 AM Southbound and 4:00 PM to 6:00 PM Northbound on Egan Drive, Monday through Friday.
2. 1-lane through traffic will be Maintained at all times, both on the Egan Drive Northbound lanes and on the Southbound lanes.
3. No detours and closed intersections will be allowed from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM, Monday through Friday.
4. Detours and closed intersection plans shall be announced in the local newspaper and on the two local AM radio stations the preceding day.
5. Prior to public announcement, permission to close city streets or to use city streets for detours, shall be obtained in writing from the city manager and the pertinent local fire chiefs.
6. Prior to all work on roadways and prior to all closures and detours, the contractor shall submit to and receive back from the project engineer, approved, a detail traffic control plan. The plan shall show the exact location of signs, barricades, cones, flag persons and other traffic control devices.
7. The contractor shall designate at least one employee to maintain and continuously monitor the condition and placement of all traffic control devices during roadway work operations. This employee shall have no other duties. Any traffic control devices in place on the roadway during non-working hours shall also be maintained.

8. This typical plan will be reversed for right lane closure.

9. Additional speed advisory signs may be required adjacent to the work area.